

DC Department of General Services



DC Department of Parks and Recreation



**Center for Therapeutic Recreation Program
Development and Associated Services**

3030 G Street SE
Washington, DC 20019

**Report of Hazardous Materials Study
Hazardous Material Specifications**

December 10, 2014



REPORT OF HAZARDOUS MATERIALS SURVEY

**THERAPEUTIC RECREATION CENTER
3030 G ST SE
WASHINGTON, DC 20019**

ECS PROJECT NO. 37:1413

FOR

MOODY NOLAN DC

OCTOBER 31, 2014



ECS CAPITOL SERVICES, PLLC

"Setting the Standard for Service"

Geotechnical • Construction Materials • Environmental • Facilities • Code Compliance

October 31, 2014

Mr. Roger Watson
Moody Nolan DC
1225 Eye Street, NW
Suite 210
Washington, DC 20005
RWatson@moodynolan.com

ECS Project No. 37:1413

Reference: Hazardous Materials Survey, Therapeutic Recreation Center, 3030 G St SE,
Washington, DC 20019


Dear Mr. Watson:


ECS Capitol Services, PLLC, (ECS) is pleased to provide you with the results of the above referenced non-invasive Hazardous Materials Survey for the subject building. The following is a summary of results of the above referenced work performed on October 22, 2014 and October 29, 2014.

ECS appreciates this opportunity to provide hazardous material survey services. If we can be of further assistance to you, please do not hesitate to contact us.

Sincerely,

ECS CAPITOL SERVICES, PLLC


Glenn R. Pyle, CPG, LRS
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SITE DESCRIPTION

The Therapeutic Recreation Center is a one story building with a pool, locker rooms, recreation/craft rooms, office spaces, and a large gymnasium/auditorium. A separate building was formerly a daycare center but now operates as a senior craft center and includes one large room, bathrooms, a kitchen, and storage space. According to staff, the buildings were constructed in circa 1971. It is ECS' understanding that the existing buildings will either undergo extensive renovations or be demolished and replaced with a new facility. The surveyed areas included offices, locker rooms, storage rooms, bathrooms, showers, kitchen, pool room, closets, hallways, stairwells, and mechanical rooms. Exterior areas included the facades of both buildings. The roofs of the buildings were excluded from the survey.

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

METHODS AND RESULTS

Asbestos

The asbestos survey was performed by asbestos inspectors who have received EPA accredited 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 EMSL Laboratory, Inc. (EMSL) of Beltsville, Maryland for analysis via Polarized Light Microscopy in accordance with current EPA-600 methodology. Materials consisting of additional layers were analyzed separately. EMSL 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 EPA Standard 40 CFR 763 Subpart E, Asbestos Hazard Emergency Response Act (AHERA) and OSHA Standard 29 CFR 1926.1101 Inspection Protocol. Collected samples for each unique material were submitted per positive stop analysis. If the first sample of each material is found to contain asbestos, the remaining samples of that material set are not analyzed as they are deemed to contain asbestos by regulation. A total of 150 bulk representative samples were submitted to the laboratory, and 188 separate layers were analyzed.

Table 1 below summarizes the materials reported to contain asbestos. This table also lists materials assumed to contain asbestos. These materials should be treated as ACMs if they are discovered during construction. The list of assumed asbestos in Table 1 is not comprehensive, but does include materials typically present in similarly constructed buildings. A list of materials

sampled and tested for asbestos content is located in Table 3 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>
Basement Boiler Room	Boiler Tank Insulation and Cloth Wrap	Friable
2nd Floor Open Storage Area	Plaster Ceiling - Black Layer	Friable
Stage, Storage Rooms, Bathroom, Gym Offices, Break Room, Fitness Center, Closets	12"x12" Brown Mottled Floor Tile and Associated Black Mastic	Category I Non-Friable
Janitor Closet By Offices	Black Sink Undercoat	Category II Non-Friable
Senior Center Closet	Grey 12"x12" Floor Tile	Category I Non-Friable
<u>Assumed Asbestos Containing Materials*</u>		
Pipes within Chases behind Walls and above Ceiling throughout the Building	Thermal Systems Insulation (TSI) on Pipes/Fittings	Friable
Mechanical Room	Boiler Units – Interior Components	Unknown
Locations requiring a Rated Fire Door and Door Casing	Fire Door Insulation	Friable
Showers and Kitchen	Ceramic Tile Mastic/Floor Felt	Category I Non-Friable
Mechanical and Electrical Rooms, Electric Systems	Electric Panels: Cement Components	Category II Non-Friable
Heating and Plumbing Systems	Pipe Flange Gaskets	Unknown

<u>General Location</u>	<u>Material</u>	<u>Friability</u>
HVAC System	Air Handler Units: Interior Components	Unknown
Auditorium, Offices, Fitness Center, Recreational Rooms	Chalkboard/Bulletin/Wall Panel Board/Mirror Mastics	Category II Non-Friable
Large Recreational Room	Water Fountain Components	Unknown
Offices, Recreational Rooms, Fitness Center	Radiators – Cement Boards/Insulation Components	Unknown
Storage Room	Hood – Cement Board	Category II Non-Friable
Exterior	Air Handling Units – Interior Components	Unknown
Behind Interior Finishes, Exterior Veneer and/or Subgrade Walls, and under Ceramic Flooring	Waterproofing Membranes/Mastics	Category II Non-Friable

* These materials, if present, could not be reached at the time of the survey. These materials should be presumed to be asbestos-containing materials (ACMs) until determined otherwise.

Prior to demolition/renovation activities, if any other unidentified suspect materials are observed within the areas mentioned above, ECS can sample the suspect materials for asbestos content when readily accessible. All similar materials should be assumed to contain asbestos. Materials identified in this table may also be found in other parts of the building.

Lead-Based Paint

Painted and/or glazed surfaces were assessed for lead content using a Direct-Read X-Ray Fluorescence (XRF) Spectrometer manufactured by Innov-X Systems. The survey was conducted utilizing the District of Columbia and U.S. EPA definition of lead-based paint. Under this definition, painted surfaces which contain lead in concentrations equal to or greater than 1.0 milligram 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. Lead-containing glazes, while not lead-based paints by the EPA definition, are regulated by

OSHA (29 CFR 1926.62), if removed or otherwise disturbed in a manner that will potentially expose contractor employees or other occupants to lead.

The representative survey included taking readings from walls, windows, doors, and miscellaneous components. Walls are listed by letter with wall "A" being the entrance of each room, proceeding clockwise to "B, C, D", etc. Each painted and glazed surface is classified based on paint condition and given an Intact, Fair, or Poor condition. A total of 84 readings were collected during the survey, including calibration readings. A list of XRF readings collected from the interior of the building is included in Table 4 attached to this report.

No painted surfaces which contain lead in concentrations equal to or greater than 1.0 milligrams per square centimeter ($\geq 1.0 \text{ mg/cm}^2$) were detected in the facility. However, components coated with lead-containing glazes were detected and are presented on the table below.

TABLE 2
XRF LEAD-BASED GLAZE SUMMARY

Reading	Level	Substrate	Color	Component	Location	Pb (mg/cm ²)
57	1st Floor	Ceramic	White	Sink	Stage Ante-room	1.00
58	1st Floor	Ceramic	White	Toilet	Stage Ante-room	1.00
50	1st Floor	Ceramic	White	Toilet	Entrance Hall Bathroom	1.00

Notes: mg/cm² – milligrams per square centimeter

Painted surfaces which contain lead in concentrations less than 1.0 milligrams per square centimeter ($< 1.0 \text{ mg/cm}^2$) are considered "lead-containing paints". Since OSHA has no specific action level for lead in paint, all paint on the site found to have any measurable concentration of lead should be assumed to be lead containing and regulated under OSHA as referenced under 29 CFR 1926.62. Please refer to the attached Table 4 for the complete listing of readings and results.

Miscellaneous Materials

In addition to surveys for asbestos-containing materials and lead-based paints, ECS surveyed the building for various materials which may require special handling or disposal if removed from the building. No sampling or characterization of these materials was included within our scope of services. Materials which may require sampling or characterization prior to disposal are summarized below.

Suspect Polychlorinated Biphenyl (PCB) Containing Lamp Ballasts

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 assessment, ECS surveyed the structure for potential liquid PCB containing materials and equipment. At the time of the Hazardous Material Survey, ECS visually observed several of the fluorescent light ballasts throughout the structure in an attempt to identify labeling indicating the presence/absence of PCB containing fluids.

It should be noted that light ballasts manufactured prior to 1979 could contain small quantities of PCBs. However, regardless of "PCB labeling," ballasts produced between 1980 and 1991 may contain di-ethyl hexyl phthalate (DEHP) which is classified as a potential carcinogen by the EPA. Prior to demolishing or major renovations of the building, ECS recommends all ballasts be properly recycled regardless of "PCB" labeling.

Approximately 285 light ballasts were estimated during our assessment. At the time of our investigation, no evidence of damage or leaking was observed on or in the vicinity of the inspected fixtures.

Mercury Containing Components

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

As previously discussed, fluorescent lamps were observed throughout the building. The fluorescent lamps may contain small quantities of mercury. Approximately 2,500 linear feet of lamps were observed (including spare bulbs), 97 compact fluorescent bulbs and 40 high-intensity discharge lamps (HIDS). ECS also observed approximately 25 thermostats that may contain mercury switches.

Refrigerants and Extinguishers

ECS performed a survey of the building in an attempt to identify extinguishers and equipment which may contain Freon or other refrigerants. ECS observed air handlers, refrigerators, and fire extinguishers which may contain Freon or other refrigerants.

Other Potential Hazardous/Regulated Substances and Building Condition Concerns

Lead-acid batteries located in emergency lamps, exit signs, alarm panels, and associated with electrical components, etc. were observed. The following materials were also observed which may require special handling and disposal during renovation activities:

- Smoke detection equipment;
- Desktop computers and monitors; and

- Water treatment chemicals in the basement.

In addition, vent pipes were observed protruding from the ground adjoining the building that may be associated with petroleum Underground Storage Tanks (USTs). A concrete pad with fill port pipes was observed near the building. If these components are associated with petroleum USTs and will no longer be utilized, they should be closed in accordance with District of Columbia Department of Environment (DDOE) regulations.

RECOMMENDATIONS

Asbestos

The materials listed in Table 1 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.

ECS recommends where a material type has been identified as asbestos containing that similar type materials throughout the building's interior and exterior be assumed to contain asbestos.

Federal and local regulations require asbestos-containing materials be removed prior to disturbance by renovation/demolition. ECS recommends that the identified asbestos-containing materials and any assumed asbestos-containing materials found to be present within the building during renovation and/or demolition activities be removed by a District of Columbia certified asbestos abatement contractor by renovations, maintenance or demolition prior to disturbance.

Prior to the removal of any regulated asbestos-containing material, notification of an asbestos project must be made to the District of Columbia and the EPA. This notification must be filed 10 business days before starting asbestos abatement activities. If asbestos abatement is to be performed while the building is occupied, a 30-day notification to building occupants is required.

If asbestos-containing materials 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 abatement contractor's work practices over the course of the project. The project monitor will inform the building owner if the asbestos abatement contractor is not performing his work in accordance with project specifications, District of Columbia 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. The industrial hygienist will also collect air samples from locations outside the abatement areas to monitor and evaluate the effectiveness of dust control measures used by the contractor to prevent the migration of asbestos fibers to occupied areas.

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. These areas/items were deemed inaccessible and were not assessed. If additional suspect asbestos-containing materials are uncovered during demolition/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 licensed asbestos inspector in accordance with 29 CFR 1926.1101.

Lead-Based Paint

Lead-based paint and lead-containing paint is an environmental concern primarily when it becomes airborne or is ingested. Contractors performing work that could impact paint films or glazing (i.e. scrapped or flaked off, or made airborne in a dust media) that have detectable concentrations of lead should be informed of the testing results and should take appropriate actions to comply with OSHA Standard 29 CFR 1926.62 - Lead in Construction.

Even if a painted surface contains lead in concentration less than 1.0 milligrams per square centimeter ($< 1.0 \text{ mg/cm}^2$), it may still contain concentration of lead in the paint, which when disturbed, may generate lead dust greater than the Permissible Exposure Limit (PEL) of 50 micrograms per cubic millimeter ($\mu\text{g/m}^3$) as an 8-hour Time Weighted Average (TWA) established by U.S. Occupational Safety and Health Administration (OSHA) Standard 29 CFR 1926.62 – Lead in Construction.

The OSHA standard also gives no guidance on acceptable levels of lead in paint at which no exposure to airborne lead (above the action level) would be expected. Rather, OSHA defines airborne concentrations, and references specific types of work practices and operations from which a lead hazard may be generated (reference 29 CFR 1926.62, section d). Environmental and personnel monitoring should be conducted during any removal/demolition process (as appropriate) to verify that actual personal exposures are below the Permissible Exposure Limit (PEL). All paint that is scheduled to be disturbed during this project may potentially contain small amounts of lead. Under OSHA requirements, the contractor performing renovation work will be required to conduct this monitoring and follow applicable requirements under 29 CFR 1926.62 if disturbing paint.

During renovation/demolition activities, ECS recommended a Toxicity Characteristic Leaching Procedure (TCLP) sample to be collected from the demolition debris prior to disposal of the waste stream. Waste tested which results in a lead content in the leachate of greater than or equal to five parts per million (5 ppm) is to be considered hazardous, handled and disposed in accordance with local, city, state and federal regulations.

If renovation activities are proposed, dust clearance testing is recommended to be conducted to evaluate if a leaded dust hazard remains following lead hazard control work. Clearance dust testing should be conducted by a certified lead risk assessor. Dust samples should be analyzed by laboratory methods in accordance with the federal Department of Housing and Urban Development (HUD). The laboratory should participate in the National Voluntary Laboratory Accreditation Plan (NVLAP) and recognized by the EPA.

Miscellaneous Materials

It should be noted that light ballasts manufactured prior to 1979 could contain small quantities of PCBs. However, regardless of "PCB labeling," ballasts produced between 1980 and 1991 may contain di-ethyl hexyl phthalate (DEHP) which is classified as a potential carcinogen by the EPA. Prior to any demolition or major renovations of the building, ECS recommends all ballasts be treated as universal waste and disposed of accordingly.

Fluorescent lamps and lamp ballasts if removed, should be recycled in accordance with EPA and District of Columbia regulations. Recycling is the most environmental friendly means of disposal for these materials. Fluorescent lamps may be disposed as universal waste only if they remain unbroken during removal. If bulbs are crushed or broken prior to disposal, they are classified as hazardous waste by the EPA.

Lamp ballasts, mercury containing switches, lead-acid batteries and other regulated waste materials must be segregated and disposed of as universal waste as required by the EPA and District of Columbia. If any of these materials are observed to be leaking or otherwise damaged prior to disposal they must be disposed of as hazardous waste in accordance with EPA and District of Columbia regulations. Handling, packaging, labeling, and disposal of hazardous materials should be performed in accordance with EPA and District of Columbia regulations. The District of Columbia will require the buildings' owner (referred to as the "generator") to obtain an EPA Generator ID number in order to dispose of hazardous waste materials. A copy of the EPA Generator ID number application has been enclosed with this report. It should be completed and submitted to DDOE to obtain a number prior to the removal of any hazardous or universal waste materials from the site.

Refrigerants in chillers, refrigerators, and other equipment should be reclaimed and disposed of properly. The EPA requires that any equipment dismantled on-site prior to disposal must have its refrigerant recovered in accordance with EPA's Refrigerant Recycling Rules (Section 608). However, equipment that typically enters the waste stream during demolition with the charge intact (e.g. air conditioners, refrigerators, and water fountains) is subject to special safe disposal requirements. Under the EPA requirements, the final party in the disposal chain (e.g. scrap metal recycler or landfill owner) is responsible for ensuring that refrigerants are recovered from equipment prior to final disposition. However, refrigerants can also be evacuated prior to disposal provided proper documentation of the evacuation is provided to the disposal facility.

Several drums, paints, solvents, and other chemicals were observed at the site. If the products will not be utilized they should be appropriately removed from the site for recycling purposes.

In addition, vent pipes were observed protruding from the ground adjoining the building and a concrete pad with fill port pipes were observed near the building. These components may be associated with petroleum USTs and if no longer be utilized they should be closed in accordance with District of Columbia Department of Environment (DDOE) regulations.

GENERAL

At this time, ECS is developing a project specification for the subject building to delineate and quantify known and suspect hazardous materials in the building and to outline proper procedures for the abatement. The project specification will be provided under a separate cover. 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 also 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 3
BULK SAMPLING OF SUSPECT ASBESTOS-CONTAINING MATERIALS**

TABLE 3

BULK SAMPLING OF SUSPECT ASBESTOS-CONTAINING MATERIALS

<u>Sample #</u>	<u>Sampling Location</u>	<u>Material/Description</u>	<u>Analytical Results</u>
01	Gray Door Caulk	Hallway To The Weight Room	NAD
02	Gray Door Caulk	Hallway To The Weight Room	NAD
03	Gray Door Caulk	Hallway To The Weight Room	NAD
04	Brown Wall/Door Caulk	Wall In Hallway To The Weight Room	NAD
05	Brown Wall/Door Caulk	Wall In Hallway To The Weight Room	NAD
06	Brown Wall/Door Caulk	Wall In Hallway To The Weight Room	NAD
07	Boiler Tank Insulation & Cloth Wrap	Basement Boiler Room	Asbestos: 2% Chrysotile
08	Boiler Tank Insulation & Cloth Wrap	Basement Boiler Room	N/A
09	Boiler Tank Insulation & Cloth Wrap	Basement Boiler Room	N/A
10	Yellow Hot Water Pipe Wrap	Basement Boiler Room	NAD
11	Yellow Hot Water Pipe Wrap	Basement Boiler Room	NAD
12	Yellow Hot Water Pipe Wrap	Basement Boiler Room	NAD
13	Blue Cold Water Pipe & Associated White Mastic	Boiler Room	NAD
14	Blue Cold Water Pipe & Associated White Mastic	Boiler Room	NAD
15	Blue Cold Water Pipe & Associated White Mastic	Boiler Room	NAD

NAD = No Asbestos Detected
N/A = Not Analyzed Due to Positive Stop



<u>Sample #</u>	<u>Sampling Location</u>	<u>Material/Description</u>	<u>Analytical Results</u>
16	Bridging Mastic	Basement Boiler Room	NAD
17	Bridging Mastic	Basement Boiler Room	NAD
18	Bridging Mastic	Basement Boiler Room	NAD
19	Spray-On Fire Proofing	Basement Boiler Room Ceiling	NAD
20	Spray-On Fire Proofing	Basement Boiler Room Ceiling	NAD
21	Spray-On Fire Proofing	Basement Boiler Room Ceiling	NAD
22	Spray-On Fire Proofing	Basement Stairwell Ceiling	NAD
23	Spray-On Fire Proofing	Basement Stairwell Ceiling	NAD
24	Spray-On Fire Proofing	Basement Stairwell Ceiling	NAD
25	Spray-On Fire Proofing	Basement Stairwell Ceiling	NAD
26	White Door Caulk	Basement Boiler Room Exterior Door, Pool Exit	NAD
27	White Door Caulk	Basement Boiler Room Exterior Door, Pool Exit	NAD
28	White Door Caulk	Basement Boiler Room Exterior Door, Pool Exit	NAD
29	Gray Duct Sealant	2 nd Floor Mechanical Room	NAD
30	Gray Duct Sealant	2 nd Floor Mechanical Room	NAD
31	Gray Duct Sealant	2 nd Floor Mechanical Room	NAD

NAD = No Asbestos Detected
N/A = Not Analyzed Due to Positive Stop



<u>Sample #</u>	<u>Sampling Location</u>	<u>Material/Description</u>	<u>Analytical Results</u>
32	Drywall Joint Compound	Janitor Closet By Pool	NAD
33	Drywall Joint Compound	Janitor Closet By Pool	NAD
34	Drywall Joint Compound	Janitor Closet By Pool	NAD
35	Plaster Wall	2 nd Floor Open Mechanical Area	Skim Coat: NAD Rough Coat: NAD
36	Plaster Wall	2 nd Floor Open Mechanical Area	Skim Coat: NAD Rough Coat: NAD
37	Plaster Wall	2 nd Floor Open Mechanical Area	Skim Coat: NAD Rough Coat: NAD
38	Plaster Ceiling	2nd Floor Open Storage Area	White Layer: NAD Black Layer: Asbestos: 10% Chrysotile
39	Plaster Ceiling	2 nd Floor Open Storage Area	White Layer: NAD Black Layer: N/A
40	4" Brown Covebase & Associated Tan Mastic	Hallway To Stage	Cove Base: NAD Mastic: NAD
41	4" Brown Covebase & Associated Tan Mastic	Hallway To Stage	Cove Base: NAD Mastic: NAD
42	4" Brown Covebase & Associated Tan Mastic	Hallway To Stage	Cove Base: NAD Mastic: NAD
43	4" Aqua Covebase & Associated Tan Mastic	Pool	Cove Base: NAD Mastic: NAD
44	4" Aqua Covebase & Associated Tan Mastic	Pool	Cove Base: NAD Mastic: NAD
45	4" Aqua Covebase & Associated Tan Mastic	Pool	Cove Base: NAD Mastic: NAD
46	Gray Window Caulk	Pool	NAD
47	Gray Window Caulk	Pool	NAD

NAD = No Asbestos Detected
N/A = Not Analyzed Due to Positive Stop



<u>Sample #</u>	<u>Sampling Location</u>	<u>Material/Description</u>	<u>Analytical Results</u>
48	Gray Window Caulk	Pool	NAD
49	Mixed Mastic Under Rubber Matting	Pool	NAD
50	Mixed Mastic Under Rubber Matting	Pool	NAD
51	Mixed Mastic Under Rubber Matting	Pool	NAD
52	Brown Window Mastic	Pool	NAD
53	Brown Window Mastic	Pool	NAD
54	Brown Window Mastic	Pool	NAD
55-cove base	4" Black Covebase & Associated Yellow Mastic	Stage Hall	NAD
55-mastic	4" Black Covebase & Associated Yellow Mastic	Stage Hall	NAD
56-cove base	4" Black Covebase & Associated Yellow Mastic	Stage Hall	NAD
56	4" Black Covebase & Associated Yellow Mastic	Stage Hall	NAD
57	4" Black Covebase & Associated Yellow Mastic	Stage Hall	NAD
57	4" Black Covebase & Associated Yellow Mastic	Stage Hall	NAD
58	12"x12" Brown Mottled Floor Tile & Associated Black Mastic	Stage	Floor Tile: Asbestos: 6% Chrysotile Mastic: Asbestos: 7% Chrysotile
59	12"x12" Brown Mottled Floor Tile & Associated Black Mastic	Stage	Floor Tile: N/A Mastic: N/A
60	12"x12" Brown Mottled Floor Tile & Associated Black Mastic	Stage	Floor Tile: N/A Mastic: N/A

NAD = No Asbestos Detected
N/A = Not Analyzed Due to Positive Stop



<u>Sample #</u>	<u>Sampling Location</u>	<u>Material/Description</u>	<u>Analytical Results</u>
61	12"x12" Feather Floor Tile & Associated Yellow Mastic	Stage Hall	Floor Tile: NAD Mastic: NAD
62	12"x12" Feather Floor Tile & Associated Yellow Mastic	Stage Hall	Floor Tile: NAD Mastic: NAD
63	12"x12" Feather Floor Tile & Associated Yellow Mastic	Stage Hall	Floor Tile: NAD Mastic: NAD
64	Black Sink Under Coat	Janitor Closet By Offices	Asbestos: 6% Chrysotile
65	Black Sink Under Coat	Janitor Closet By Offices	N/A
66	Black Sink Under Coat	Janitor Closet By Offices	N/A
67	4" Brown Cove Base & Associated Black & Cream Mastic	North Office	Cove Base: NAD Mastic: NAD
68	4" Brown Cove Base & Associated Black & Cream Mastic	North Office	Cove Base: NAD Mastic: NAD
69	4" Brown Cove Base & Associated Black & Cream Mastic	North Office	Cove Base: NAD Mastic: NAD
70	Yellow Carpet Mastic	Office	NAD
71	Yellow Carpet Mastic	Office	NAD
72	Yellow Carpet Mastic	Office	NAD
73	12"x12" White With Multi Colored Streaks & Associated Mastic	Office Work Area	Floor Tile: NAD Mastic: NAD
74	12"x12" White With Multi Colored Streaks & Associated Mastic	Office Work Area	Floor Tile: NAD Mastic: NAD
75	12"x12" White With Multi Colored Streaks & Associated Mastic	Office Work Area	Floor Tile: NAD Mastic: NAD
76	4" Black Covebase & Associated Black Mastic	Weight Room	Cove Base: NAD Mastic: NAD

<u>Sample #</u>	<u>Sampling Location</u>	<u>Material/Description</u>	<u>Analytical Results</u>
77	4" Black Covebase & Associated Black Mastic	Weight Room	Cove Base: NAD Mastic: NAD
78	4" Black Covebase & Associated Black Mastic	Weight Room	Cove Base: NAD Mastic: NAD
79	12"x12" Pink Feathered Floor Tile & Associated Yellow Mastic	Weight Room	Floor Tile: NAD Mastic: NAD
80	12"x12" Pink Feathered Floor Tile & Associated Yellow Mastic	Weight Room	Floor Tile: NAD Mastic: NAD
81	12"x12" Pink Feathered Floor Tile & Associated Yellow Mastic	Weight Room	Floor Tile: NAD Mastic: NAD
82	White Pipe Wrap & Associated White Mastic	Entrance Hall	NAD
83	White Pipe Wrap & Associated White Mastic	Entrance Hall	NAD
84	White Pipe Wrap & Associated White Mastic	Entrance Hall	NAD
85	Drywall Wall With Skim Coat & Gray Base	2 nd Floor Mechanical Room	Joint Compound: NAD Drywall: NAD
86	Drywall Wall With Skim Coat & Gray Base	2 nd Floor Mechanical Room	Joint Compound: NAD Drywall: NAD
87	Drywall Wall With Skim Coat & Gray Base	2 nd Floor Mechanical Room	Joint Compound: NAD Drywall: NAD
88	Drywall Wallboard With Tan Base	2 nd Floor Roof Access	NAD
89	Drywall Wallboard With Tan Base	2 nd Floor Roof Access	NAD
90	Drywall Wallboard With Tan Base	2 nd Floor Roof Access	NAD
91	Drywall Wallboard With Skim Coat & White Base	Janitor Closet By Pool	Drywall: NAD Joint Compound: NAD
92	Drywall Wallboard With Skim Coat & White Base	Janitor Closet By Pool	Drywall: NAD Joint Compound: NAD

<u>Sample #</u>	<u>Sampling Location</u>	<u>Material/Description</u>	<u>Analytical Results</u>
93	Drywall Wallboard With Skim Coat & White Base	Janitor Closet By Pool	Drywall: NAD Joint Compound: NAD
301	Brown Joint Mastic Brick Wall	Senior Center	NAD
302	Brown Joint Mastic Brick Wall	Senior Center	NAD
303	Brown Joint Mastic Brick Wall	Senior Center	NAD
304	White Window Mastic	Senior Center	NAD
305	White Window Mastic	Senior Center	NAD
306	White Window Mastic	Senior Center	NAD
307	12"x12" Pinhole Ceiling Tile	Senior Center	NAD
308	12"x12" Pinhole Ceiling Tile	Senior Center	NAD
309	12"x12" Pinhole Ceiling Tile	Senior Center	NAD
310	Light Blue 12"x12" Floor Tile & Mastic	Senior Center	Floor Tile: NAD Mastic: NAD
311	Light Blue 12"x12" Floor Tile & Mastic	Senior Center	Floor Tile: NAD Mastic: NAD
312	Light Blue 12"x12" Floor Tile & Mastic	Senior Center	Floor Tile: NAD Mastic: NAD
313	Dark Blue 12"x12" Floor Tile & Mastic	Senior Center	Floor Tile: NAD Mastic: NAD
314	Dark Blue 12"x12" Floor Tile & Mastic	Senior Center	Floor Tile: NAD Mastic: NAD
315	Dark Blue 12"x12" Floor Tile & Mastic	Senior Center	Floor Tile: NAD Mastic: NAD

<u>Sample #</u>	<u>Sampling Location</u>	<u>Material/Description</u>	<u>Analytical Results</u>
316	Yellow Carpet Mastic	Senior Center	NAD
317	Yellow Carpet Mastic	Senior Center	NAD
318	Yellow Carpet Mastic	Senior Center	NAD
319	Black Cove Base & Associated Mastic	Senior Center	Cove Base: NAD Mastic: NAD
320	Black Cove Base & Associated Mastic	Senior Center	Cove Base: NAD Mastic: NAD
321	Black Cove Base & Associated Mastic	Senior Center	Cove Base: NAD Mastic: NAD
322	Drywall	Senior Center	NAD
323	Drywall	Senior Center	NAD
324	Drywall	Senior Center	NAD
325	Drywall Joint Compound	Senior Center	NAD
326	Drywall Joint Compound	Senior Center	NAD
327	Drywall Joint Compound	Senior Center	NAD
328	Grey 12"x12" Floor Tile & Mastic	Senior Center Closet	Floor Tile: Asbestos: 8% Chrysotile Mastic: NAD
329	Grey 12"x12" Floor Tile & Mastic	Senior Center Closet	Floor Tile: N/A Mastic: NAD
330	Grey 12"x12" Floor Tile & Mastic	Senior Center Closet	Floor Tile: N/A Mastic: NAD
331	Exterior Brown Joint Caulk	Senior Center	NAD

NAD = No Asbestos Detected
N/A = Not Analyzed Due to Positive Stop



<u>Sample #</u>	<u>Sampling Location</u>	<u>Material/Description</u>	<u>Analytical Results</u>
332	Exterior Brown Joint Caulk	Senior Center	NAD
333	Exterior Brown Joint Caulk	Senior Center	NAD
334	Brown Linoleum	Senior Center Bathrooms	NAD
335	Brown Linoleum	Senior Center Bathrooms	NAD
336	Brown Linoleum	Senior Center Bathrooms	NAD
337	Mastic For 334-336	Senior Center Bathrooms	NAD
338	Mastic For 334-336	Senior Center Bathrooms	NAD
339	Mastic For 334-336	Senior Center Bathrooms	NAD
340	Exterior Door/Window Caulk	Senior Center	NAD
341	Exterior Door/Window Caulk	Senior Center	NAD
342	Exterior Door/Window Caulk	Senior Center	NAD
343	Exterior Door/Window Caulk	Pool Building	NAD
344	Exterior Door/Window Caulk	Pool Building	NAD
345	Exterior Door/Window Caulk	Pool Building	NAD
346	Exterior Door/Window Caulk	Pool Building	NAD
347	Exterior Door/Window Caulk	Pool Building	NAD

<u>Sample #</u>	<u>Sampling Location</u>	<u>Material/Description</u>	<u>Analytical Results</u>
348	Exterior Door/Window Caulk	Pool Building	NAD
349	Pinhole 12x12 Ceiling Tile	Pool Building	NAD
350	Pinhole 12x12 Ceiling Tile	Pool Building	NAD
351	Pinhole 12x12 Ceiling Tile	Pool Building	NAD
352	Furrows 12x12 Ceiling Tile	Pool Building	NAD
353	Furrows 12x12 Ceiling Tile	Pool Building	NAD
354	Furrows 12x12 Ceiling Tile	Pool Building	NAD
355	White Mastic On Fiberglass TSI	Gym Closet	NAD
356	White Mastic On Fiberglass TSI	Gym Closet	NAD
357	White Mastic On Fiberglass TSI	Gym Closet	NAD

ATTACHMENT

**TABLE 4
LEAD-BASED PAINT XRF RESULTS**



TABLE 4
XRF LEAD PAINT
RESULTS

TR Center
ECS Project No. 37:1413
October 2014

<u>Date</u>	<u>Reading</u>	<u>Floor</u>	<u>Room</u>	<u>Side</u>	<u>Substrate</u>	<u>Color</u>	<u>Component</u>	<u>Pb</u>	<u>Pb +/-</u>
29-Oct-14	1	Standardization						N/A	N/A
29-Oct-14	8	Calibration						1.19	0.08
29-Oct-14	9	Calibration						1.19	0.08
29-Oct-14	10	Calibration						1.20	0.08
29-Oct-14	11	1st Floor	Entrance Hall	B	Metal	Red	Cabinet Door	0.00	0.01
29-Oct-14	12	1st Floor	Entrance Hall	C	Drywall	White	Wall	0.00	0.00
29-Oct-14	13	1st Floor	Entrance Hall	D	Metal	Tan	Door	0.02	0.01
29-Oct-14	14	1st Floor	Weight Room	D	Concrete Block	Purple	Wall	0.00	0.00
29-Oct-14	15	1st Floor	Weight Room	D	Concrete Block	Red	Wall	0.00	0.00
29-Oct-14	16	1st Floor	Weight Room	D	Concrete Block	Blue	Wall	0.00	0.00
29-Oct-14	17	1st Floor	Weight Room	D	Metal	Purple	Door	0.03	0.03
29-Oct-14	18	1st Floor	Weight Room	B	Drywall	White	Ceiling	0.00	0.00
29-Oct-14	19	1st Floor	Kitchen	B	Concrete Block	White	Wall	0.00	0.00
29-Oct-14	20	1st Floor	Kitchen	D	Concrete Block	White	Wall	0.00	0.00
29-Oct-14	21	1st Floor	Kitchen	C	Drywall	White	Wall	0.00	0.00
29-Oct-14	22	1st Floor	Computer Room	A	Concrete Block	Purple	Wall	0.00	0.00
29-Oct-14	23	1st Floor	Computer Room	A	Concrete Block	Green	Wall	0.00	0.00
29-Oct-14	24	1st Floor	Computer Room	C	Concrete Block	Blue	Wall	0.00	0.00
29-Oct-14	25	1st Floor	Computer Room Closet	A	Metal	Green	Door	0.02	0.01
29-Oct-14	26	1st Floor	Activity Room	A	Concrete Block	Green	Wall	0.00	0.00
29-Oct-14	27	1st Floor	Entrance Hall	A	Concrete	Blue	Stool	0.00	0.00
29-Oct-14	28	1st Floor	Entrance Hall	A	Concrete	Turquoise	Stool	0.00	0.00
29-Oct-14	29	2nd Floor	Open Storage Area	B	Metal	Gray	Beam	0.10	0.08
29-Oct-14	30	2nd Floor	Open Storage Area	D	Concrete Block	Light Blue	Wall	0.00	0.00
29-Oct-14	31	2nd Floor	Open Mechanical Area	A	Metal	White	Beam	0.00	0.00
29-Oct-14	32	2nd Floor	Open Mechanical Area	A	Plaster	White	Skylight	0.00	0.00
29-Oct-14	33	2nd Floor	Stairwell	A	Metal	Orange	Railing	0.02	0.02
29-Oct-14	34	2nd Floor	Stairwell	A	Concrete	Gray	Stair Tread	0.00	0.00



TABLE 4
XRF LEAD PAINT
RESULTS

Date	Reading	Floor	Room	Side	Substrate	Color	Component	Pb	Pb +/-
29-Oct-14	35	2nd Floor	Stairwell	A	Metal	Gray	Stair Toe Kick	0.00	0.00
29-Oct-14	36	Basement	Boiler Room	A	Cloth	Yellow	Pipe	0.00	0.00
29-Oct-14	37	Basement	Boiler Room	A	Cloth	Yellow	Pipe	0.00	0.00
29-Oct-14	38	Basement	Boiler Room	C	Cloth	Light Blue	Pipe	0.00	0.00
29-Oct-14	39	Basement	Boiler Room	C	Concrete	Red	Floor Stand	0.00	0.00
29-Oct-14	40	Basement	Boiler Room	B	Metal	Red	Door	0.06	0.03
29-Oct-14	41	Basement	Chemical Room	D	Metal	Red	D Casing	0.02	0.03
29-Oct-14	42	Basement	Chemical Room	D	Plastic	Yellow	Pipe	0.00	0.00
29-Oct-14	43	Basement	Chemical Room	D	Plastic	Black	Pipe	0.00	0.00
29-Oct-14	44	Basement	Stairwell	D	Concrete	Light Blue	Wall	0.00	0.00
29-Oct-14	45	1st Floor	Men's Locker Room	C	Ceramic	Brown	Wall	0.00	0.00
29-Oct-14	46	1st Floor	Men's Locker Room	C	Wood	Red	Bench	0.00	0.00
29-Oct-14	47	1st Floor	Pool	B	Concrete Block	Blue	Wall	0.00	0.00
29-Oct-14	48	1st Floor	Pool	B	Concrete Block	Tan	Wall	0.00	0.00
29-Oct-14	49	1st Floor	Pool	A	Metal	Blue	Stair Stringer	0.00	0.00
29-Oct-14	50	1st Floor	Pool	A	Metal	Blue	Railing	0.00	0.00
29-Oct-14	51	1st Floor	Pool	C	Metal	Blue	Door	0.02	0.02
29-Oct-14	52	1st Floor	Pool	A	Concrete	Blue	Bench	0.00	0.00
29-Oct-14	53	1st Floor	Stage Hall	A	Metal	Black	Railing	0.00	0.00
29-Oct-14	54	1st Floor	Stage Hall	B	Metal	Yellow	Light Shield	0.00	0.00
29-Oct-14	55	1st Floor	Stage Ante Room	B	Metal	Yellow	Radiator	0.00	0.00
29-Oct-14	56	1st Floor	Stage Ante Room	B	Concrete Block	Yellow	Wall	0.00	0.00
29-Oct-14	57	1st Floor	Stage Ante Room	B	Ceramic	White	Sink	1.00	0.01
29-Oct-14	58	1st Floor	Stage Ante Room	B	Ceramic	White	Toilet	1.00	0.01
29-Oct-14	59	1st Floor	Stage	C	Concrete Block	Black	Wall	0.00	0.00
29-Oct-14	60	1st Floor	Entrance Hall Bathroom	B	Ceramic	White	Toilet	1.00	0.01
29-Oct-14	61	Exterior	N/A	B	Concrete	Blue	Column	0.00	0.00
29-Oct-14	62	Exterior	N/A	B	Concrete	Light Green	Column	0.00	0.00



TABLE 4
XRF LEAD PAINT
RESULTS

<u>Date</u>	<u>Reading</u>	<u>Floor</u>	<u>Room</u>	<u>Side</u>	<u>Substrate</u>	<u>Color</u>	<u>Component</u>	<u>Pb</u>	<u>Pb +/-</u>
29-Oct-14	63	Exterior	N/A	B	Wood	Blue	Picnic Table	0.00	0.00
29-Oct-14	64	Exterior	N/A	B	Wood	Yellow	Picnic Table	0.00	0.00
29-Oct-14	65	Exterior	N/A	B	Wood	Green	Picnic Table	0.00	0.00
29-Oct-14	66	Exterior	N/A	B	Metal	Black	Picnic Table	0.17	0.03
29-Oct-14	67	Exterior	Putt Putt Area	B	Concrete	Yellow	Wall	0.00	0.00
29-Oct-14	68	Exterior	Putt Putt Area	B	Concrete	Red	Wall	0.00	0.00
29-Oct-14	69	Exterior	Putt Putt Area	B	Concrete	Purple	Wall	0.00	0.00
29-Oct-14	70	Exterior	Putt Putt Area	B	Concrete	Blue	Wall	0.00	0.00
29-Oct-14	71	Exterior	Putt Putt Area	B	Concrete	Green	Wall	0.00	0.00
29-Oct-14	72	Exterior	Putt Putt Area	B	Metal	Red	Sink	0.04	0.03
29-Oct-14	73	Exterior	Senior Center	C	Metal	Brown	Door	0.00	0.01
29-Oct-14	74	Exterior	Senior Center Entry	C	Metal	Tan	Door	0.02	0.01
29-Oct-14	75	Exterior	Main Room	A	Metal	Tan	Radiator	0.00	0.00
29-Oct-14	76	Exterior	Main Room	A	Concrete Block	White	Wall	0.00	0.00
29-Oct-14	77	Exterior	Main Room	C	Drywall	White	Ceiling	0.00	0.00
29-Oct-14	78	Calibration						1.17	0.08
29-Oct-14	79	Calibration						1.16	0.07
29-Oct-14	80	Calibration						1.16	0.07

ATTACHMENT
PHOTOGRAPHS



1. Boiler Tank Insulation & Cloth Wrap - Basement Boiler Room



2. Plaster Ceiling (Black Layer - 2nd Floor Open Storage Area



3. 12"X12" Brown Mottled Floor Tile & Associated Black Mastic - Stage



4. Black Sink Under Treatment - Janitor Closet By Offices

**HAZARDOUS MATERIAL SURVEY
THERAPEUTIC RECREATION CENTER
3030 G ST SE
WASHINGTON, DC**



**PHOTOGRAPHS
ECS PROJECT NO. 01:23603
OCTOBER 22, 2014**



5. Grey 12"x12" Floor Tile & Mastic - Senior Center Closet



6. Assumed Fire Doors - Locations requiring a Rated Fire Door and Door Casing



7. Assumed Light Shields - Interior and Exterior of both Buildings



8. Assumed Ceramic Tile Mastic/Floor Felt - Showers and Kitchen

**HAZARDOUS MATERIAL SURVEY
THERAPEUTIC RECREATION CENTER
3030 G ST SE
WASHINGTON, DC**



**PHOTOGRAPHS
ECS PROJECT NO. 01:23603
OCTOBER 22, 2014**



9. *Assumed* Electric Panels: Cement Components - Mechanical and Electrical Rooms, Electric Systems



10. *Assumed* Fume Hood Cement Board - Storage Room



11. *Assumed* internal boiler materials



12. *Assumed* Chalkboard/Bulletin/Wall Panel Board/Mirror Mastics

**HAZARDOUS MATERIAL SURVEY
THERAPEUTIC RECREATION CENTER
3030 G ST SE
WASHINGTON, DC**



**PHOTOGRAPHS
ECS PROJECT NO. 01:23603
OCTOBER 22, 2014**

ATTACHMENT

LABORATORY RESULTS AND CHAINS OF CUSTODY

**EMSL Analytical, Inc.**

10768 Baltimore Avenue, Beltsville, MD 20705

Phone/Fax: (301) 937-5700 / (301) 937-5701

<http://www.EMSL.com>beltsvillelab@emsl.com

EMSL Order: 191411166

CustomerID: ECMA78

CustomerPO:

ProjectID:

Attn: **Glenn Pyle**
ECS Mid-Atlantic, LLC
14026 Thunderbolt Place
Suite 100
Chantilly, VA 20151

Phone: (703) 471-8400
Fax:
Received: 10/24/14 9:45 AM
Analysis Date: 10/27/2014
Collected: 10/22/2014

Project: 23603

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

Sample	Description	Appearance	Non-Asbestos		Asbestos
			% Fibrous	% Non-Fibrous	% Type
01 191411166-0001	GRAY DOOR CAULK HALLWAY TO THE WEIGHT 4M	Gray Non-Fibrous Homogeneous	8% Synthetic	92% Non-fibrous (other)	None Detected
02 191411166-0002	GRAY DOOR CAULK HALLWAY TO THE WEIGHT 4M	Gray Fibrous Homogeneous	7% Synthetic	93% Non-fibrous (other)	None Detected
03 191411166-0003	GRAY DOOR CAULK HALLWAY TO THE WEIGHT 4M	Gray Fibrous Homogeneous	12% Synthetic	88% Non-fibrous (other)	None Detected
04 191411166-0004	BRN. WALL/DOOR CAULK WALL IN HALLWAY TO THE WEIGHT - KITCHEN DOOR	Brown Non-Fibrous Homogeneous		3% Quartz 6% Mica 91% Non-fibrous (other)	None Detected
05 191411166-0005	BRN. WALL/DOOR CAULK WALL IN HALLWAY TO THE WEIGHT - KITCHEN DOOR	Brown Non-Fibrous Homogeneous	3% Synthetic	6% Mica 91% Non-fibrous (other)	None Detected
06 191411166-0006	BRN. WALL/DOOR CAULK WALL IN HALLWAY TO THE WEIGHT - KITCHEN DOOR	Brown Fibrous Homogeneous	3% Synthetic	7% Mica 90% Non-fibrous (other)	None Detected

Analyst(s)

George Malone (24)

Matthew Daigneault (101)

Luba Stockert (63)

Joe Centifonti, Laboratory Manager
or other approved signatory

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Samples analyzed by EMSL Analytical, Inc. Beltsville, MD NVLAP Lab Code 200293-0

Initial report from 10/28/2014 10:35:21

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Sample	Description	Appearance	Non-Asbestos			Asbestos
			%	Fibrous	% Non-Fibrous	% Type
07 191411166-0007	BOILER TANK INS. & CLOTH WRAP BSMT. BOILER RM	Gray/Tan/White Fibrous Heterogeneous	25%	Cellulose	73% Non-fibrous (other)	2% Chrysotile
08 191411166-0008	BOILER TANK INS. & CLOTH WRAP BSMT. BOILER RM					Stop Positive (Not Analyzed)
09 191411166-0009	BOILER TANK INS. & CLOTH WRAP BSMT. BOILER RM					Stop Positive (Not Analyzed)
10 191411166-0010	YELLOW HOT WATER PIPE WRAP BSMT BOILER RM	Gray/White/Yellow Fibrous Heterogeneous	70% 2%	Glass Fibrous (other)	28% Non-fibrous (other)	None Detected
11 191411166-0011	YELLOW HOT WATER PIPE WRAP BSMT BOILER RM	White/Yellow Fibrous Heterogeneous	70% 4%	Glass Fibrous (other)	26% Non-fibrous (other)	None Detected
12 191411166-0012	YELLOW HOT WATER PIPE WRAP BSMT BOILER RM	White/Yellow Fibrous Homogeneous	65%	Glass	35% Non-fibrous (other)	None Detected
13 191411166-0013	BLUE COLD WATER PIPE & ASSOC. W/WHT. MASTIC - BSMT BOILER RM	White/Black/Yello w Fibrous Heterogeneous	50% 6% 2%	Glass Cellulose Wollastonite	42% Non-fibrous (other)	None Detected

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Project: 23603

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

Sample	Description	Appearance	Non-Asbestos		Asbestos	
			%	Type	%	Type
14 191411166-0014	BLUE COLD WATER PIPE & ASSOC. W/WHT. MASTIC - BSMT BOILER RM	White/Blue/Yellow Fibrous Heterogeneous	75%	Glass	25%	Non-fibrous (other) None Detected
15 191411166-0015	BLUE COLD WATER PIPE & ASSOC. W/WHT. MASTIC - BSMT BOILER RM	White/Blue/Yellow Fibrous Homogeneous	70%	Glass	30%	Non-fibrous (other) None Detected
16 191411166-0016	BRIDGING MASTIC BASEMENT BOILER RM	Tan/White Fibrous Heterogeneous	9% 3% 10%	Fibrous (other) Wollastonite Glass	78%	Non-fibrous (other) None Detected
17 191411166-0017	BRIDGING MASTIC BASEMENT BOILER RM	White/Yellow Fibrous Heterogeneous	20%	Glass	80%	Non-fibrous (other) None Detected
18 191411166-0018	BRIDGING MASTIC BASEMENT BOILER RM	Gray/Yellow Fibrous Homogeneous	25%	Glass	75%	Non-fibrous (other) None Detected
19 191411166-0019	SPRAY-ON FIRE PROOFING BSMT BOILER RM CEILING - JOIST	Gray Fibrous Homogeneous	55%	Min. Wool	45%	Non-fibrous (other) None Detected

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Samples analyzed by EMSL Analytical, Inc. Beltsville, MD NVLAP Lab Code 200293-0

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Project: 23603

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

Sample	Description	Appearance	Non-Asbestos		Asbestos	
			% Fibrous	% Non-Fibrous	% Type	
20 191411166-0020	SPRAY-ON FIRE PROOFING BSMT BOILER RM CEILING - JOIST	Gray Fibrous Homogeneous	55% Min. Wool	45% Non-fibrous (other)		None Detected
21 191411166-0021	SPRAY-ON FIRE PROOFING BSMT BOILER RM CEILING - JOIST	Gray Fibrous Homogeneous	55% Min. Wool	45% Non-fibrous (other)		None Detected
22 191411166-0022	SPRAY-ON FIRE PROOFING BSMT. STAIRWELL CEILING	Gray/White Fibrous Homogeneous	60% Min. Wool	40% Non-fibrous (other)		None Detected
23 191411166-0023	SPRAY-ON FIRE PROOFING BSMT. STAIRWELL CEILING	Gray Fibrous Homogeneous	55% Min. Wool	45% Non-fibrous (other)		None Detected
24 191411166-0024	SPRAY-ON FIRE PROOFING BSMT. STAIRWELL CEILING	Gray Non-Fibrous Homogeneous	55% Min. Wool	45% Non-fibrous (other)		None Detected
25 191411166-0025	SPRAY-ON FIRE PROOFING BSMT. STAIRWELL CEILING	Gray/White Fibrous Homogeneous	65% Min. Wool	35% Non-fibrous (other)		None Detected

Analyst(s)

George Malone (24)

Matthew Daigneault (101)

Luba Stockert (63)

Joe Centifonti, Laboratory Manager
or other approved signatory

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Initial report from 10/28/2014 10:35:21

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EMSL Order: 191411166

CustomerID: ECMA78

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ProjectID:

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Phone: (703) 471-8400
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Received: 10/24/14 9:45 AM
Analysis Date: 10/27/2014
Collected: 10/22/2014

Project: 23603

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

Sample	Description	Appearance	Non-Asbestos		Asbestos
			% Fibrous	% Non-Fibrous	% Type
26 191411166-0026	WHT. DOOR CAULK BSMT BOILER RM EXT DOOR, POOL EXIT - . STAGE ANTEROOM	White Non-Fibrous Homogeneous		100% Non-fibrous (other)	None Detected
27 191411166-0027	WHT. DOOR CAULK BSMT BOILER RM EXT DOOR, POOL EXIT - . STAGE ANTEROOM	Gray/White Non-Fibrous Homogeneous		100% Non-fibrous (other)	None Detected
28 191411166-0028	WHT. DOOR CAULK BSMT BOILER RM EXT DOOR, POOL EXIT - . STAGE ANTEROOM	Gray/White/Yellow Non-Fibrous Homogeneous		15% Quartz 85% Non-fibrous (other)	None Detected
			0		
29 191411166-0029	GRAY DUCT SEALANT 2ND FL MECH. RM	Gray Non-Fibrous Homogeneous		100% Non-fibrous (other)	None Detected
30 191411166-0030	GRAY DUCT SEALANT 2ND FL MECH. RM	Gray Non-Fibrous Homogeneous		100% Non-fibrous (other)	None Detected
31 191411166-0031	GRAY DUCT SEALANT 2ND FL MECH. RM	Gray Non-Fibrous Homogeneous		100% Non-fibrous (other)	None Detected

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Sample	Description	Appearance	<u>Non-Asbestos</u>		<u>Asbestos</u>
			% Fibrous	% Non-Fibrous	% Type
32 191411166-0032	DRYWALL JOINT COMPOUND JANITOR CLOSET BY POOL	White Non-Fibrous Homogeneous		20% Mica 80% Non-fibrous (other)	None Detected
33 191411166-0033	DRYWALL JOINT COMPOUND JANITOR CLOSET BY POOL	White Non-Fibrous Homogeneous		20% Mica 80% Non-fibrous (other)	None Detected
34 191411166-0034	DRYWALL JOINT COMPOUND JANITOR CLOSET BY POOL	Gray/White/Beige Non-Fibrous Homogeneous		25% Mica 75% Non-fibrous (other)	None Detected
35-Skim Coat 191411166-0035	PLASTER WALL 2ND FL OPEN MECH. AREA	White Non-Fibrous Homogeneous		100% Non-fibrous (other)	None Detected
35-Rough Coat 191411166-0035A	PLASTER WALL 2ND FL OPEN MECH. AREA	Tan Non-Fibrous Homogeneous	4% Cellulose	45% Quartz 51% Non-fibrous (other)	None Detected
36-Skim Coat 191411166-0036	PLASTER WALL 2ND FL OPEN MECH. AREA	White Non-Fibrous Homogeneous		100% Non-fibrous (other)	None Detected
36-Rough Coat 191411166-0036A	PLASTER WALL 2ND FL OPEN MECH. AREA	Tan Non-Fibrous Homogeneous	3% Cellulose	45% Quartz 52% Non-fibrous (other)	None Detected

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

Sample	Description	Appearance	<u>Non-Asbestos</u>		<u>Asbestos</u>
			% Fibrous	% Non-Fibrous	% Type
37-Skim Coat 191411166-0037	PLASTER WALL 2ND FL OPEN MECH. AREA	White Non-Fibrous Homogeneous		100% Non-fibrous (other)	None Detected
37-Rough Coat 191411166-0037A	PLASTER WALL 2ND FL OPEN MECH. AREA	Brown/Beige Fibrous Homogeneous	2% Cellulose	50% Quartz 48% Non-fibrous (other)	None Detected
38-White Layer 191411166-0038	PLASTER CEILING 2ND FL OPEN STORAGE AREA	White Non-Fibrous Homogeneous		4% Perlite 96% Non-fibrous (other)	None Detected
38-Black Layer 191411166-0038A	PLASTER CEILING 2ND FL OPEN STORAGE AREA	Brown/Black Fibrous Heterogeneous	10% Cellulose	80% Non-fibrous (other)	10% Chrysotile
39-White Layer 191411166-0039	PLASTER CEILING 2ND FL OPEN STORAGE AREA	Gray/White Non-Fibrous Homogeneous		100% Non-fibrous (other)	None Detected
39-Black Layer 191411166-0039A	PLASTER CEILING 2ND FL OPEN STORAGE AREA				Stop Positive (Not Analyzed)
40-Cove Base 191411166-0040	4" BRN. COVEBASE W/ASSOC. TAN MASTIC HALLWAY TO - POOL. MEN'S LOCKER RM, KITCHEN	Brown Non-Fibrous Homogeneous		20% Ca Carbonate 80% Non-fibrous (other)	None Detected

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

Sample	Description	Appearance	Non-Asbestos		Asbestos
			% Fibrous	% Non-Fibrous	% Type
40-Mastic 191411166-0040A	4" BRN. COVEBASE W/ASSOC. TAN MASTIC HALLWAY TO - POOL. MEN'S LOCKER RM, KITCHEN	Tan Non-Fibrous Homogeneous	2% Synthetic	98% Non-fibrous (other)	None Detected
41-Cove Base 191411166-0041	4" BRN. COVEBASE W/ASSOC. TAN MASTIC HALLWAY TO - POOL. MEN'S LOCKER RM, KITCHEN	Brown Non-Fibrous Homogeneous		20% Ca Carbonate 80% Non-fibrous (other)	None Detected
41-Mastic 191411166-0041A	4" BRN. COVEBASE W/ASSOC. TAN MASTIC HALLWAY TO - POOL. MEN'S LOCKER RM, KITCHEN	Tan/White Non-Fibrous Heterogeneous	3% Synthetic	97% Non-fibrous (other)	None Detected
42-Cove Base 191411166-0042	4" BRN. COVEBASE W/ASSOC. TAN MASTIC HALLWAY TO - POOL. MEN'S LOCKER RM, KITCHEN	Brown/Gray Fibrous Homogeneous		25% Ca Carbonate 75% Non-fibrous (other)	None Detected

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Sample	Description	Appearance	Non-Asbestos		Asbestos
			% Fibrous	% Non-Fibrous	% Type
42-Mastic 191411166-0042A	4" BRN. COVEBASE W/ASSOC. TAN MASTIC HALLWAY TO - POOL. MEN'S LOCKER RM, KITCHEN	White/Yellow Fibrous Heterogeneous	2% Synthetic	15% Mica 83% Non-fibrous (other)	None Detected
43-Cove Base 191411166-0043	4" AQUA COVEBASE W/ASSOC. TAN MASTIC POOL	Blue/Green Non-Fibrous Homogeneous		15% Ca Carbonate 85% Non-fibrous (other)	None Detected
43-Mastic 191411166-0043A	4" AQUA COVEBASE W/ASSOC. TAN MASTIC POOL	Tan Non-Fibrous Homogeneous		100% Non-fibrous (other)	None Detected
44-Cove Base 191411166-0044	4" AQUA COVEBASE W/ASSOC. TAN MASTIC POOL	Blue/Green Non-Fibrous Homogeneous		15% Ca Carbonate 85% Non-fibrous (other)	None Detected
44-Mastic 191411166-0044A	4" AQUA COVEBASE W/ASSOC. TAN MASTIC POOL	Tan Non-Fibrous Homogeneous	1% Synthetic	99% Non-fibrous (other)	None Detected
45-Cove Base 191411166-0045	4" AQUA COVEBASE W/ASSOC. TAN MASTIC POOL	Gray/Blue Non-Fibrous Homogeneous		20% Ca Carbonate 80% Non-fibrous (other)	None Detected

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

Sample	Description	Appearance	Non-Asbestos		Asbestos
			% Fibrous	% Non-Fibrous	% Type
45-Mastic 191411166-0045A	4" AQUA COVEBASE W/ASSOC. TAN MASTIC POOL	Gray/Blue/Yellow Fibrous Homogeneous	3% Synthetic	97% Non-fibrous (other)	None Detected
46 191411166-0046	GRAY WINDOW CAULK POOL	Gray/White Non-Fibrous Homogeneous		100% Non-fibrous (other)	None Detected
47 191411166-0047	GRAY WINDOW CAULK POOL	Gray/White Non-Fibrous Homogeneous		100% Non-fibrous (other)	None Detected
48 191411166-0048	GRAY WINDOW CAULK POOL	Gray/White Fibrous Homogeneous	5% Cellulose 7% Glass	88% Non-fibrous (other)	None Detected
49 191411166-0049	MIXED MASTIC UNDER RUBBER MATTING POOL	Tan Non-Fibrous Homogeneous		100% Non-fibrous (other)	None Detected
50 191411166-0050	MIXED MASTIC UNDER RUBBER MATTING POOL	Tan Non-Fibrous Homogeneous		100% Non-fibrous (other)	None Detected
51 191411166-0051	MIXED MASTIC UNDER RUBBER MATTING POOL	Brown/Yellow Fibrous Homogeneous	2% Synthetic	98% Non-fibrous (other)	None Detected
52 191411166-0052	BRN. WINDOW MASTIC POOL	Brown/White/Blue Non-Fibrous Heterogeneous	3% Cellulose	97% Non-fibrous (other)	None Detected

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

Sample	Description	Appearance	Non-Asbestos		Asbestos
			% Fibrous	% Non-Fibrous	% Type
53 191411166-0053	BRN. WINDOW MASTIC POOL	Brown/White/Blue Non-Fibrous Heterogeneous	4% Cellulose	96% Non-fibrous (other)	None Detected
54 191411166-0054	BRN. WINDOW MASTIC POOL	Brown Fibrous Homogeneous	3% Cellulose 2% Synthetic	95% Non-fibrous (other)	None Detected
55-Cove Base 191411166-0055	4" BLK. COVEBASE W/ASSOC. YELLOW MASTIC STAGE HALL	Black Non-Fibrous Homogeneous		15% Ca Carbonate 85% Non-fibrous (other)	None Detected
55-Mastic 191411166-0055A	4" BLK. COVEBASE W/ASSOC. YELLOW MASTIC STAGE HALL	Yellow Non-Fibrous Homogeneous		100% Non-fibrous (other)	None Detected
56-Cove Base 191411166-0056	4" BLK. COVEBASE W/ASSOC. YELLOW MASTIC STAGE HALL	Black Non-Fibrous Homogeneous		15% Ca Carbonate 85% Non-fibrous (other)	None Detected
56-Mastic 191411166-0056A	4" BLK. COVEBASE W/ASSOC. YELLOW MASTIC STAGE HALL	Yellow Non-Fibrous Homogeneous	2% Synthetic	98% Non-fibrous (other)	None Detected

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Sample	Description	Appearance	Non-Asbestos		Asbestos
			% Fibrous	% Non-Fibrous	% Type
57-Cove Base 191411166-0057	4" BLK. COVEBASE W/ASSOC. YELLOW MASTIC STAGE HALL	Black Non-Fibrous Homogeneous		20% Ca Carbonate 80% Non-fibrous (other)	None Detected
57-Mastic 191411166-0057A	4" BLK. COVEBASE W/ASSOC. YELLOW MASTIC STAGE HALL	Brown/Gray/Yello w Fibrous Heterogeneous	5% Synthetic	20% Quartz 75% Non-fibrous (other)	None Detected
58-Floor Tile 191411166-0058	12X12 BRN. MOLTED FT W/ASSOC. BLK. MASTIC STAGE - ANTEROOM	Beige Fibrous Homogeneous		50% Ca Carbonate 44% Non-fibrous (other)	6% Chrysotile
58-Mastic 191411166-0058A	12X12 BRN. MOLTED FT W/ASSOC. BLK. MASTIC STAGE - ANTEROOM	Black Fibrous Homogeneous		93% Non-fibrous (other)	7% Chrysotile
59-Floor Tile 191411166-0059	12X12 BRN. MOLTED FT W/ASSOC. BLK. MASTIC STAGE - ANTEROOM				Stop Positive (Not Analyzed)

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Sample	Description	Appearance	<u>Non-Asbestos</u>		<u>Asbestos</u>
			% Fibrous	% Non-Fibrous	% Type
59-Mastic 191411166-0059A	12X12 BRN. MOLTED FT W/ASSOC. BLK. MASTIC STAGE - ANTEROOM				Stop Positive (Not Analyzed)
60-Floor Tile 191411166-0060	12X12 BRN. MOLTED FT W/ASSOC. BLK. MASTIC STAGE - ANTEROOM				Stop Positive (Not Analyzed)
60-Mastic 191411166-0060A	12X12 BRN. MOLTED FT W/ASSOC. BLK. MASTIC STAGE - ANTEROOM				Stop Positive (Not Analyzed)
61-Floor Tile 191411166-0061	12X12 FEATHER FT W/ASSOC. YELLOW MASTIC STAGE HALL	Tan Non-Fibrous Homogeneous		60% Ca Carbonate 40% Non-fibrous (other)	None Detected
61-Mastic 191411166-0061A	12X12 FEATHER FT W/ASSOC. YELLOW MASTIC STAGE HALL	Brown/Tan/Yellow Non-Fibrous Heterogeneous	2% Synthetic	98% Non-fibrous (other)	None Detected
62-Floor Tile 191411166-0062	12X12 FEATHER FT W/ASSOC. YELLOW MASTIC STAGE HALL	Tan Non-Fibrous Homogeneous		60% Ca Carbonate 40% Non-fibrous (other)	None Detected

Analyst(s)

George Malone (24)

Matthew Daigneault (101)

Luba Stockert (63)

Joe Centifonte, Laboratory Manager
 or other approved signatory

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Initial report from 10/28/2014 10:35:21

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EMSL Order: 191411166

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ProjectID:

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Phone: (703) 471-8400
 Fax:
 Received: 10/24/14 9:45 AM
 Analysis Date: 10/27/2014
 Collected: 10/22/2014

Project: 23603

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

Sample	Description	Appearance	<u>Non-Asbestos</u>		<u>Asbestos</u>
			% Fibrous	% Non-Fibrous	% Type
62-Mastic 191411166-0062A	12X12 FEATHER FT W/ASSOC. YELLOW MASTIC STAGE HALL	Tan/Yellow Non-Fibrous Homogeneous	2% Synthetic 1% Cellulose	97% Non-fibrous (other)	None Detected
63-Floor Tile 191411166-0063	12X12 FEATHER FT W/ASSOC. YELLOW MASTIC STAGE HALL	Gray/Tan/Beige Non-Fibrous Homogeneous		60% Ca Carbonate 40% Non-fibrous (other)	None Detected
63-Mastic 191411166-0063A	12X12 FEATHER FT W/ASSOC. YELLOW MASTIC STAGE HALL	Gray/Yellow Fibrous Heterogeneous	5% Cellulose 2% Synthetic	93% Non-fibrous (other)	None Detected
64 191411166-0064	BLK. SINK UNDERLAY JANITOR CLOSET BY OFFICES	Brown/Black Fibrous Homogeneous	2% Cellulose 1% Synthetic	91% Non-fibrous (other)	6% Chrysotile
This sample bag is labelled as #64.					
65 191411166-0065	BLK. SINK UNDERLAY JANITOR CLOSET BY OFFICES				Stop Positive (Not Analyzed)
This sample bag is labelled as #65.					

Analyst(s)

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Sample	Description	Appearance	<u>Non-Asbestos</u>		<u>Asbestos</u>
			% Fibrous	% Non-Fibrous	% Type
66 191411166-0066	BLK. SINK UNDERLAY JANITOR CLOSET BY OFFICES				Stop Positive (Not Analyzed)
This sample bag is labelled as #66.					
67-Cove Base 191411166-0067	4" BRN. COVE BASE W/ASSOC. BLK. & CREAM MASTIC - NORTH OFFICE	Brown Non-Fibrous Homogeneous		15% Ca Carbonate 85% Non-fibrous (other)	None Detected
67-Mastic 191411166-0067A	4" BRN. COVE BASE W/ASSOC. BLK. & CREAM MASTIC - NORTH OFFICE	Brown/White Non-Fibrous Heterogeneous	4% Synthetic	96% Non-fibrous (other)	None Detected
68-Cove Base 191411166-0068	4" BRN. COVE BASE W/ASSOC. BLK. & CREAM MASTIC - NORTH OFFICE	Brown Non-Fibrous Homogeneous		15% Ca Carbonate 85% Non-fibrous (other)	None Detected
68-Mastic 191411166-0068A	4" BRN. COVE BASE W/ASSOC. BLK. & CREAM MASTIC - NORTH OFFICE	Brown/White Non-Fibrous Heterogeneous	2% Synthetic	98% Non-fibrous (other)	None Detected
69-Cove Base 191411166-0069	4" BRN. COVE BASE W/ASSOC. BLK. & CREAM MASTIC - NORTH OFFICE	Brown Non-Fibrous Homogeneous		15% Ca Carbonate 85% Non-fibrous (other)	None Detected

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

Sample	Description	Appearance	Non-Asbestos		Asbestos
			% Fibrous	% Non-Fibrous	% Type
69-Mastic 191411166-0069A	4" BRN. COVE BASE W/ASSOC. BLK. & CREAM MASTIC - NORTH OFFICE	Brown/Tan Non-Fibrous Homogeneous	3% Synthetic	97% Non-fibrous (other)	None Detected
70 191411166-0070	YELLOW CARPET MASTIC OFFICE	Yellow Non-Fibrous Homogeneous		100% Non-fibrous (other)	None Detected
71 191411166-0071	YELLOW CARPET MASTIC OFFICE	Yellow Fibrous Homogeneous	6% Synthetic	94% Non-fibrous (other)	None Detected
72 191411166-0072	YELLOW CARPET MASTIC OFFICE	Yellow Non-Fibrous Homogeneous	8% Synthetic	92% Non-fibrous (other)	None Detected
73-Floor Tile 191411166-0073	12X12 WHT. W/MULTI COLORED STREAKS & ASSOC. MASTIC - OFFICE WORK AREA	White/Blue Non-Fibrous Homogeneous		60% Ca Carbonate 40% Non-fibrous (other)	None Detected
73-Mastic 191411166-0073A	12X12 WHT. W/MULTI COLORED STREAKS & ASSOC. MASTIC - OFFICE WORK AREA	Yellow Non-Fibrous Homogeneous	3% Synthetic	97% Non-fibrous (other)	None Detected

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Sample	Description	Appearance	Non-Asbestos		Asbestos
			% Fibrous	% Non-Fibrous	% Type
74-Floor Tile 191411166-0074	12X12 WHT. W/MULTI COLORED STREAKS & ASSOC. MASTIC - OFFICE WORK AREA	White/Blue Non-Fibrous Homogeneous		60% Ca Carbonate 40% Non-fibrous (other)	None Detected
74-Mastic 191411166-0074A	12X12 WHT. W/MULTI COLORED STREAKS & ASSOC. MASTIC - OFFICE WORK AREA	Yellow Non-Fibrous Homogeneous	2% Synthetic	98% Non-fibrous (other)	None Detected
75-Floor Tile 191411166-0075	12X12 WHT. W/MULTI COLORED STREAKS & ASSOC. MASTIC - OFFICE WORK AREA	Blue Non-Fibrous Homogeneous		60% Ca Carbonate 40% Non-fibrous (other)	None Detected
75-Mastic 191411166-0075A	12X12 WHT. W/MULTI COLORED STREAKS & ASSOC. MASTIC - OFFICE WORK AREA	Yellow Non-Fibrous Homogeneous	3% Synthetic	97% Non-fibrous (other)	None Detected

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Sample	Description	Appearance	% Fibrous	Non-Asbestos		% Type
				% Non-Fibrous		
76-Cove Base 191411166-0076	4" BLK. COVEBASE W/ASSOC. BLK. MASTIC WEIGHT RM	Brown/Black Non-Fibrous Homogeneous		15% Ca Carbonate 85% Non-fibrous (other)		None Detected
76-Mastic 191411166-0076A	4" BLK. COVEBASE W/ASSOC. BLK. MASTIC WEIGHT RM	Brown Non-Fibrous Homogeneous		100% Non-fibrous (other)		None Detected
77-Cove Base 191411166-0077	4" BLK. COVEBASE W/ASSOC. BLK. MASTIC WEIGHT RM	Brown/Black Non-Fibrous Homogeneous		15% Ca Carbonate 85% Non-fibrous (other)		None Detected
77-Mastic 191411166-0077A	4" BLK. COVEBASE W/ASSOC. BLK. MASTIC WEIGHT RM	Brown Fibrous Homogeneous	5% Synthetic	95% Non-fibrous (other)		None Detected
78-Cove Base 191411166-0078	4" BLK. COVEBASE W/ASSOC. BLK. MASTIC WEIGHT RM	Brown Non-Fibrous Homogeneous		15% Ca Carbonate 85% Non-fibrous (other)		None Detected
78-Mastic 191411166-0078A	4" BLK. COVEBASE W/ASSOC. BLK. MASTIC WEIGHT RM	Brown Non-Fibrous Homogeneous	2% Cellulose 3% Synthetic	95% Non-fibrous (other)		None Detected

Analyst(s)

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

Sample	Description	Appearance	Non-Asbestos		Asbestos
			% Fibrous	% Non-Fibrous	% Type
79-Floor Tile 191411166-0079	12X12 PINK FEATHERED FT W/ASSOC. YELLOW MASTIC - WEIGHT RM	Pink Non-Fibrous Homogeneous		60% Ca Carbonate 40% Non-fibrous (other)	None Detected
79-Mastic 191411166-0079A	12X12 PINK FEATHERED FT W/ASSOC. YELLOW MASTIC - WEIGHT RM	Yellow Non-Fibrous Homogeneous	2% Synthetic	98% Non-fibrous (other)	None Detected
80-Floor Tile 191411166-0080	12X12 PINK FEATHERED FT W/ASSOC. YELLOW MASTIC - WEIGHT RM	Pink Non-Fibrous Homogeneous		60% Ca Carbonate 40% Non-fibrous (other)	None Detected
80-Mastic 191411166-0080A	12X12 PINK FEATHERED FT W/ASSOC. YELLOW MASTIC - WEIGHT RM	Yellow Non-Fibrous Homogeneous	3% Synthetic	97% Non-fibrous (other)	None Detected
81-Floor Tile 191411166-0081	12X12 PINK FEATHERED FT W/ASSOC. YELLOW MASTIC - WEIGHT RM	Pink Non-Fibrous Homogeneous		60% Ca Carbonate 40% Non-fibrous (other)	None Detected

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Sample	Description	Appearance	Non-Asbestos		Asbestos	
			%	Type	%	Type
81-Mastic 191411166-0081A	12X12 PINK FEATHERED FT W/ASSOC. YELLOW MASTIC - WEIGHT RM	Yellow Non-Fibrous Homogeneous	3%	Synthetic	97%	Non-fibrous (other) None Detected
82 191411166-0082	WHT. PIPE WRAP W/ASSOC. WHT. MASTIC ENTRANCE HALL - CLOSET	Tan/White/Silver Fibrous Heterogeneous	2% 30% 9%	Wollastonite Cellulose Glass	59%	Non-fibrous (other) None Detected
83 191411166-0083	WHT. PIPE WRAP W/ASSOC. WHT. MASTIC ENTRANCE HALL - CLOSET	Tan/White/Silver Non-Fibrous Heterogeneous	1% 30% 9%	Wollastonite Cellulose Glass	60%	Non-fibrous (other) None Detected
84 191411166-0084	WHT. PIPE WRAP W/ASSOC. WHT. MASTIC ENTRANCE HALL - CLOSET	Tan/White/Silver Fibrous Heterogeneous	20% 25%	Cellulose Glass	55%	Non-fibrous (other) None Detected
85-Joint Compound 191411166-0085	DRYWALL WALL W/SKIM COAT & GRAY BASE 2ND FL MECH - RM	White Non-Fibrous Homogeneous			20% 80%	Mica Non-fibrous (other) None Detected

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Sample	Description	Appearance	Non-Asbestos		Asbestos	
			% Fibrous	% Non-Fibrous	% Type	
85-Drywall 191411166-0085A	DRYWALL WALL W/SKIM COAT & GRAY BASE 2ND FL MECH - RM	Gray/Tan Fibrous Heterogeneous	20% Cellulose	70% Gypsum 10% Non-fibrous (other)		None Detected
86-Joint Compound 191411166-0086	DRYWALL WALL W/SKIM COAT & GRAY BASE 2ND FL MECH - RM	White Non-Fibrous Homogeneous		20% Mica 80% Non-fibrous (other)		None Detected
86-Drywall 191411166-0086A	DRYWALL WALL W/SKIM COAT & GRAY BASE 2ND FL MECH - RM	Gray/Tan Fibrous Heterogeneous	15% Cellulose	80% Gypsum 5% Non-fibrous (other)		None Detected
87-Joint Compound 191411166-0087	DRYWALL WALL W/SKIM COAT & GRAY BASE 2ND FL MECH - RM	White Non-Fibrous Homogeneous		15% Mica 85% Non-fibrous (other)		None Detected
87-Drywall 191411166-0087A	DRYWALL WALL W/SKIM COAT & GRAY BASE 2ND FL MECH - RM	Brown/Gray Fibrous Homogeneous	5% Cellulose	75% Gypsum 20% Non-fibrous (other)		None Detected
88 191411166-0088	DRYWALL WALLBOARD W/TAN BASE 2ND FL ROOF ACCESS - HATCH	Brown/Gray Fibrous Heterogeneous	15% Cellulose	65% Gypsum 20% Non-fibrous (other)		None Detected
89 191411166-0089	DRYWALL WALLBOARD W/TAN BASE 2ND FL ROOF ACCESS - HATCH	Brown/Gray Fibrous Heterogeneous	20% Cellulose	65% Gypsum 15% Non-fibrous (other)		None Detected

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			% Fibrous	% Non-Fibrous	% Type
90 191411166-0090	DRYWALL WALLBOARD W/TAN BASE 2ND FL ROOF ACCESS - HATCH	Tan Fibrous Homogeneous	6% Cellulose	90% Gypsum 4% Non-fibrous (other)	None Detected
91-Drywall 191411166-0091	DRYWALL WALLBOARD W/SKIM COAT & WHT. BASE JANITOR - CLOSET BY POOL	Brown/White Non-Fibrous Homogeneous	15% Cellulose 20% Glass	65% Non-fibrous (other)	None Detected
91-Joint Compound 191411166-0091A	DRYWALL WALLBOARD W/SKIM COAT & WHT. BASE JANITOR - CLOSET BY POOL	White Non-Fibrous Homogeneous		15% Mica 85% Non-fibrous (other)	None Detected
92-Drywall 191411166-0092	DRYWALL WALLBOARD W/SKIM COAT & WHT. BASE JANITOR - CLOSET BY POOL	Brown/White Fibrous Heterogeneous	15% Cellulose 20% Glass	65% Non-fibrous (other)	None Detected

Analyst(s)

George Malone (24)

Matthew Daigneault (101)

Luba Stockert (63)

Joe Centifonte, Laboratory Manager
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Initial report from 10/28/2014 10:35:21

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EMSL Order: 191411166

CustomerID: ECMA78

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ProjectID:

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Phone: (703) 471-8400
Fax:
Received: 10/24/14 9:45 AM
Analysis Date: 10/27/2014
Collected: 10/22/2014

Project: 23603

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

Sample	Description	Appearance	Non-Asbestos		Asbestos
			% Fibrous	% Non-Fibrous	% Type
92-Joint Compound 191411166-0092A	DRYWALL WALLBOARD W/SKIM COAT & WHT. BASE JANITOR - CLOSET BY POOL	White Non-Fibrous Homogeneous		15% Mica 85% Non-fibrous (other)	None Detected
93 191411166-0092B	DRYWALL WALLBOARD W/SKIM COAT & WHT. BASE JANITOR - CLOSET BY POOL	White Fibrous Homogeneous	8% Glass	90% Gypsum 2% Non-fibrous (other)	None Detected
Drywall only. This sample is not included in the chain (there are only 2 listed samples for this HA). Call us if you wish this to be removed.					
301 191411166-0093	BRN. JOINT MASTIC BRICK WALL SENIOR CENTER	Brown Non-Fibrous Homogeneous		12% Quartz 88% Non-fibrous (other)	None Detected
302 191411166-0094	BRN. JOINT MASTIC BRICK WALL SENIOR CENTER	Brown Non-Fibrous Homogeneous		10% Quartz 90% Non-fibrous (other)	None Detected
303 191411166-0095	BRN. JOINT MASTIC BRICK WALL SENIOR CENTER	Brown Non-Fibrous Homogeneous		100% Non-fibrous (other)	None Detected
304 191411166-0096	WHT. WINDOW MASTIC SENIOR CENTER	White Non-Fibrous Homogeneous		100% Non-fibrous (other)	None Detected

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

Sample	Description	Appearance	% Fibrous	Non-Asbestos		% Type
				% Non-Fibrous		
305 191411166-0097	WHT. WINDOW MASTIC SENIOR CENTER	White Non-Fibrous Homogeneous		100% Non-fibrous (other)		None Detected
306 191411166-0098	WHT. WINDOW MASTIC SENIOR CENTER	Gray/White Non-Fibrous Homogeneous		100% Non-fibrous (other)		None Detected
307 191411166-0099	12X12 CT SENIOR CENTER	Gray/White Fibrous Homogeneous	15% Cellulose 50% Glass	10% Perlite 25% Non-fibrous (other)		None Detected
308 191411166-0100	12X12 CT SENIOR CENTER	Gray/White Fibrous Homogeneous	15% Cellulose 40% Glass	15% Perlite 30% Non-fibrous (other)		None Detected
309 191411166-0101	12X12 CT SENIOR CENTER	Beige Fibrous Homogeneous	6% Cellulose 80% Glass	14% Non-fibrous (other)		None Detected
310-Floor Tile 191411166-0102	LT BLUE 12X12 FT & MASTIC SENIOR CENTER	Blue Non-Fibrous Homogeneous		60% Ca Carbonate 40% Non-fibrous (other)		None Detected
310-Mastic 191411166-0102A	LT BLUE 12X12 FT & MASTIC SENIOR CENTER	Yellow Non-Fibrous Homogeneous	3% Cellulose	97% Non-fibrous (other)		None Detected
311-Floor Tile 191411166-0103	LT BLUE 12X12 FT & MASTIC SENIOR CENTER	Blue Non-Fibrous Homogeneous		60% Ca Carbonate 40% Non-fibrous (other)		None Detected

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Project: 23603

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

Sample	Description	Appearance	<u>Non-Asbestos</u>		<u>Asbestos</u>
			% Fibrous	% Non-Fibrous	% Type
311-Mastic 191411166-0103A	LT BLUE 12X12 FT & MASTIC SENIOR CENTER	Yellow Non-Fibrous Homogeneous	5% Cellulose	95% Non-fibrous (other)	None Detected
312-Floor Tile 191411166-0104	LT BLUE 12X12 FT & MASTIC SENIOR CENTER	Blue Non-Fibrous Homogeneous		60% Ca Carbonate 40% Non-fibrous (other)	None Detected
312-Mastic 191411166-0104A	LT BLUE 12X12 FT & MASTIC SENIOR CENTER	Yellow Fibrous Homogeneous	6% Cellulose	94% Non-fibrous (other)	None Detected
313-Floor Tile 191411166-0105	DK. BLUE 12X12 FT & MASTIC SENIOR CENTER	Blue Non-Fibrous Homogeneous		60% Ca Carbonate 40% Non-fibrous (other)	None Detected
313-Mastic 191411166-0105A	DK. BLUE 12X12 FT & MASTIC SENIOR CENTER	Yellow Non-Fibrous Homogeneous	3% Cellulose	97% Non-fibrous (other)	None Detected
314-Floor Tile 191411166-0106	DK. BLUE 12X12 FT & MASTIC SENIOR CENTER	Blue Non-Fibrous Homogeneous		60% Ca Carbonate 40% Non-fibrous (other)	None Detected
314-Mastic 191411166-0106A	DK. BLUE 12X12 FT & MASTIC SENIOR CENTER	Yellow Non-Fibrous Homogeneous	5% Cellulose	95% Non-fibrous (other)	None Detected
315-Floor Tile 191411166-0107	DK. BLUE 12X12 FT & MASTIC SENIOR CENTER	Blue Non-Fibrous Homogeneous		60% Ca Carbonate 40% Non-fibrous (other)	None Detected

Analyst(s)

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

Sample	Description	Appearance	<u>Non-Asbestos</u>		<u>Asbestos</u>
			% Fibrous	% Non-Fibrous	% Type
315-Mastic 191411166-0107A	DK. BLUE 12X12 FT & MASTIC SENIOR CENTER	Yellow Non-Fibrous Homogeneous		100% Non-fibrous (other)	None Detected
316 191411166-0108	YELLOW CARPET MASTIC SENIOR CENTER	Yellow Fibrous Homogeneous	12% Synthetic	88% Non-fibrous (other)	None Detected
317 191411166-0109	YELLOW CARPET MASTIC SENIOR CENTER	Yellow Fibrous Homogeneous	15% Synthetic	85% Non-fibrous (other)	None Detected
318 191411166-0110	YELLOW CARPET MASTIC SENIOR CENTER	Yellow Fibrous Homogeneous	8% Synthetic	92% Non-fibrous (other)	None Detected
319-Cove Base 191411166-0111	BLK. CB & MASTIC SENIOR CENTER	Black Non-Fibrous Homogeneous		10% Ca Carbonate 90% Non-fibrous (other)	None Detected
319-Mastic 191411166-0111A	BLK. CB & MASTIC SENIOR CENTER	Tan Non-Fibrous Homogeneous		100% Non-fibrous (other)	None Detected
320-Cove Base 191411166-0112	BLK. CB & MASTIC SENIOR CENTER	Black Non-Fibrous Homogeneous		15% Ca Carbonate 85% Non-fibrous (other)	None Detected
320-Mastic 191411166-0112A	BLK. CB & MASTIC SENIOR CENTER	Tan Non-Fibrous Homogeneous		100% Non-fibrous (other)	None Detected

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

Sample	Description	Appearance	% Fibrous	Non-Asbestos		Asbestos
				% Non-Fibrous		% Type
321-Cove Base 191411166-0113	BLK. CB & MASTIC SENIOR CENTER	Black Non-Fibrous Homogeneous		15% Ca Carbonate 85% Non-fibrous (other)		None Detected
321-Mastic 191411166-0113A	BLK. CB & MASTIC SENIOR CENTER	Brown/Yellow Non-Fibrous Heterogeneous		100% Non-fibrous (other)		None Detected
322 191411166-0114	DRYWALL SENIOR CENTER	Gray Fibrous Homogeneous	10% Cellulose 12% Glass	70% Gypsum 8% Non-fibrous (other)		None Detected
323 191411166-0115	DRYWALL SENIOR CENTER	Gray Fibrous Homogeneous	10% Cellulose 8% Glass	65% Gypsum 17% Non-fibrous (other)		None Detected
324 191411166-0116	DRYWALL SENIOR CENTER	Gray Fibrous Homogeneous	3% Cellulose 4% Glass	90% Gypsum 3% Non-fibrous (other)		None Detected
325 191411166-0117	JC SENIOR CENTER	White Fibrous Heterogeneous	10% Cellulose	15% Mica 75% Non-fibrous (other)		None Detected
326 191411166-0118	JC SENIOR CENTER	White Non-Fibrous Homogeneous		15% Mica 85% Non-fibrous (other)		None Detected
327 191411166-0119	JC SENIOR CENTER	White Non-Fibrous Homogeneous		10% Mica 10% Perlite 80% Non-fibrous (other)		None Detected

Analyst(s)

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

Sample	Description	Appearance	Non-Asbestos		Asbestos
			% Fibrous	% Non-Fibrous	% Type
328-Floor Tile 191411166-0120	GREY 12X12 FT & MASTIC SENIOR CENTER CLOSET	Brown Non-Fibrous Homogeneous		92% Non-fibrous (other)	8% Chrysotile
328-Mastic 191411166-0120A	GREY 12X12 FT & MASTIC SENIOR CENTER CLOSET	Brown Non-Fibrous Homogeneous		100% Non-fibrous (other)	None Detected
329-Floor Tile 191411166-0121	GREY 12X12 FT & MASTIC SENIOR CENTER CLOSET				Stop Positive (Not Analyzed)
329-Mastic 191411166-0121A	GREY 12X12 FT & MASTIC SENIOR CENTER CLOSET	Brown Non-Fibrous Homogeneous	2% Cellulose	98% Non-fibrous (other)	None Detected
330-Floor Tile 191411166-0122	GREY 12X12 FT & MASTIC SENIOR CENTER CLOSET				Stop Positive (Not Analyzed)
330-Mastic 191411166-0122A	GREY 12X12 FT & MASTIC SENIOR CENTER CLOSET	Tan Non-Fibrous Homogeneous		100% Non-fibrous (other)	None Detected
331 191411166-0123	EXT. BRN. JOINT CAULK SENIOR CENTER	Brown Non-Fibrous Homogeneous		100% Non-fibrous (other)	None Detected

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Sample	Description	Appearance	Non-Asbestos		Asbestos
			% Fibrous	% Non-Fibrous	% Type
332 191411166-0124	EXT. BRN. JOINT CAULK SENIOR CENTER	Brown Non-Fibrous Homogeneous		100% Non-fibrous (other)	None Detected
333 191411166-0125	EXT. BRN. JOINT CAULK SENIOR CENTER	Brown/Gray Non-Fibrous Homogeneous		100% Non-fibrous (other)	None Detected
334 191411166-0126	BRN. LINOLEUM SENIOR CENTER BATHRMS	Brown Fibrous Heterogeneous	12% Glass	88% Non-fibrous (other)	None Detected
335 191411166-0127	BRN. LINOLEUM SENIOR CENTER BATHRMS	Brown Fibrous Heterogeneous	14% Glass	86% Non-fibrous (other)	None Detected
336 191411166-0128	BRN. LINOLEUM SENIOR CENTER BATHRMS	Brown/Gray Fibrous Heterogeneous	14% Glass	86% Non-fibrous (other)	None Detected
337 191411166-0129	MSTIC FOR 334- 336 SENIOR CENTER BATHRMS	Brown Non-Fibrous Homogeneous		100% Non-fibrous (other)	None Detected
338 191411166-0130	MSTIC FOR 334- 336 SENIOR CENTER BATHRMS	Brown Non-Fibrous Homogeneous		100% Non-fibrous (other)	None Detected

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Sample	Description	Appearance	Non-Asbestos		Asbestos	
			% Fibrous	% Non-Fibrous	% Type	
339 191411166-0131	MSTIC FOR 334-336 SENIOR CENTER BATHRMS	Brown/Tan Fibrous Homogeneous	4% Cellulose 2% Glass	94% Non-fibrous (other)		None Detected
340 191411166-0132	EXT. DOOR/WINDOW CAULK SENIOR CENTER	Brown Non-Fibrous Homogeneous	5% Glass	95% Non-fibrous (other)		None Detected
341 191411166-0133	EXT. DOOR/WINDOW CAULK SENIOR CENTER	Brown Non-Fibrous Homogeneous	5% Glass	95% Non-fibrous (other)		None Detected
342 191411166-0134	EXT. DOOR/WINDOW CAULK SENIOR CENTER	Gray Fibrous Homogeneous	7% Glass	93% Non-fibrous (other)		None Detected
343 191411166-0135	EXT. DOOR/WINDOW CAULK POOL BLDG	Brown Non-Fibrous Homogeneous		12% Quartz 88% Non-fibrous (other)		None Detected
344 191411166-0136	EXT. DOOR/WINDOW CAULK POOL BLDG	Brown Non-Fibrous Homogeneous		14% Quartz 86% Non-fibrous (other)		None Detected
345 191411166-0137	EXT. DOOR/WINDOW CAULK POOL BLDG	Brown Non-Fibrous Homogeneous		100% Non-fibrous (other)		None Detected

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EMSL Order: 191411166

CustomerID: ECMA78

CustomerPO:

ProjectID:

Attn: **Glenn Pyle**
ECS Mid-Atlantic, LLC
14026 Thunderbolt Place
Suite 100
Chantilly, VA 20151

Phone: (703) 471-8400
 Fax:
 Received: 10/24/14 9:45 AM
 Analysis Date: 10/27/2014
 Collected: 10/22/2014

Project: 23603

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

Sample	Description	Appearance	Non-Asbestos		Asbestos	
			% Fibrous	% Non-Fibrous	% Type	
346 191411166-0138	EXT. DOOR/WINDOW CAULK POOL BLDG	Brown Non-Fibrous Homogeneous		10% Quartz 90% Non-fibrous (other)		None Detected
347 191411166-0139	EXT. DOOR/WINDOW CAULK POOL BLDG	Brown Non-Fibrous Homogeneous		12% Quartz 88% Non-fibrous (other)		None Detected
348 191411166-0140	EXT. DOOR/WINDOW CAULK POOL BLDG	Brown Non-Fibrous Homogeneous		100% Non-fibrous (other)		None Detected
349 191411166-0141	PINHOLE 12X12 CT POOL BLDG	Gray/White Fibrous Homogeneous	35% Cellulose 10% Glass	25% Perlite 30% Non-fibrous (other)		None Detected
350 191411166-0142	PINHOLE 12X12 CT POOL BLDG	Gray/White Non-Fibrous Homogeneous	40% Cellulose 15% Glass	25% Perlite 20% Non-fibrous (other)		None Detected
351 191411166-0143	PINHOLE 12X12 CT POOL BLDG	Gray/White Fibrous Homogeneous	30% Cellulose 30% Glass	35% Perlite 5% Non-fibrous (other)		None Detected
352 191411166-0144	FURROWS 12X12 CT POOL BLDG	Gray/White Fibrous Homogeneous	10% Cellulose 25% Glass	20% Perlite 45% Non-fibrous (other)		None Detected
353 191411166-0145	FURROWS 12X12 CT POOL BLDG	Gray/White Non-Fibrous Homogeneous	15% Cellulose 35% Glass	20% Perlite 30% Non-fibrous (other)		None Detected

Analyst(s)

George Malone (24)

Matthew Daigneault (101)

Luba Stockert (63)

Joe Centifonti, Laboratory Manager
or other approved signatory

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Initial report from 10/28/2014 10:35:21

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

Sample	Description	Appearance	% Fibrous	Non-Asbestos		% Type
				% Non-Fibrous		
354 191411166-0146	FURROWS 12X12 CT POOL BLDG	Gray/White Fibrous Homogeneous	75%	Glass	25% Non-fibrous (other)	None Detected
355 191411166-0147	WHT. MASTIC ON FG TSI POOL BLDG GYM CLOSET	Brown/White/Silver Fibrous Heterogeneous	25% 15%	Cellulose Glass	60% Non-fibrous (other)	None Detected
356 191411166-0148	WHT. MASTIC ON FG TSI POOL BLDG GYM CLOSET	Brown/White/Silver Fibrous Heterogeneous	25% 20%	Cellulose Glass	55% Non-fibrous (other)	None Detected
357 191411166-0149	WHT. MASTIC ON FG TSI POOL BLDG GYM CLOSET	Tan/White/Silver Fibrous Heterogeneous	10% 10% 6%	Wollastonite Cellulose Glass	74% Non-fibrous (other)	None Detected

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Sample	Description	Appearance	Non-Asbestos		Asbestos	
			% Fibrous	% Non-Fibrous	% Type	
01 191411166-0001	GRAY DOOR CAULK HALLWAY TO THE WEIGHT 4M	Gray Non-Fibrous Homogeneous	8% Synthetic	92% Non-fibrous (other)	None Detected	
02 191411166-0002	GRAY DOOR CAULK HALLWAY TO THE WEIGHT 4M	Gray Fibrous Homogeneous	7% Synthetic	93% Non-fibrous (other)	None Detected	
03 191411166-0003	GRAY DOOR CAULK HALLWAY TO THE WEIGHT 4M	Gray Fibrous Homogeneous	12% Synthetic	88% Non-fibrous (other)	None Detected	
04 191411166-0004	BRN. WALL/DOOR CAULK WALL IN HALLWAY TO THE WEIGHT - KITCHEN DOOR	Brown Non-Fibrous Homogeneous		3% Quartz 6% Mica 91% Non-fibrous (other)	None Detected	
05 191411166-0005	BRN. WALL/DOOR CAULK WALL IN HALLWAY TO THE WEIGHT - KITCHEN DOOR	Brown Non-Fibrous Homogeneous	3% Synthetic	6% Mica 91% Non-fibrous (other)	None Detected	
06 191411166-0006	BRN. WALL/DOOR CAULK WALL IN HALLWAY TO THE WEIGHT - KITCHEN DOOR	Brown Fibrous Homogeneous	3% Synthetic	7% Mica 90% Non-fibrous (other)	None Detected	

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Sample	Description	Appearance	Non-Asbestos			Asbestos
			%	Fibrous	% Non-Fibrous	% Type
07 191411166-0007	BOILER TANK INS. & CLOTH WRAP BSMT. BOILER RM	Gray/Tan/White Fibrous Heterogeneous	25%	Cellulose	73% Non-fibrous (other)	2% Chrysotile
08 191411166-0008	BOILER TANK INS. & CLOTH WRAP BSMT. BOILER RM					Stop Positive (Not Analyzed)
09 191411166-0009	BOILER TANK INS. & CLOTH WRAP BSMT. BOILER RM					Stop Positive (Not Analyzed)
10 191411166-0010	YELLOW HOT WATER PIPE WRAP BSMT BOILER RM	Gray/White/Yellow Fibrous Heterogeneous	70% 2%	Glass Fibrous (other)	28% Non-fibrous (other)	None Detected
11 191411166-0011	YELLOW HOT WATER PIPE WRAP BSMT BOILER RM	White/Yellow Fibrous Heterogeneous	70% 4%	Glass Fibrous (other)	26% Non-fibrous (other)	None Detected
12 191411166-0012	YELLOW HOT WATER PIPE WRAP BSMT BOILER RM	White/Yellow Fibrous Homogeneous	65%	Glass	35% Non-fibrous (other)	None Detected
13 191411166-0013	BLUE COLD WATER PIPE & ASSOC. W/WHT. MASTIC - BSMT BOILER RM	White/Black/Yello w Fibrous Heterogeneous	50% 6% 2%	Glass Cellulose Wollastonite	42% Non-fibrous (other)	None Detected

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Sample	Description	Appearance	Non-Asbestos			Asbestos
			%	Fibrous	% Non-Fibrous	% Type
14 191411166-0014	BLUE COLD WATER PIPE & ASSOC. W/WHT. MASTIC - BSMT BOILER RM	White/Blue/Yellow Fibrous Heterogeneous	75%	Glass	25% Non-fibrous (other)	None Detected
15 191411166-0015	BLUE COLD WATER PIPE & ASSOC. W/WHT. MASTIC - BSMT BOILER RM	White/Blue/Yellow Fibrous Homogeneous	70%	Glass	30% Non-fibrous (other)	None Detected
16 191411166-0016	BRIDGING MASTIC BASEMENT BOILER RM	Tan/White Fibrous Heterogeneous	9% 3% 10%	Fibrous (other) Wollastonite Glass	78% Non-fibrous (other)	None Detected
17 191411166-0017	BRIDGING MASTIC BASEMENT BOILER RM	White/Yellow Fibrous Heterogeneous	20%	Glass	80% Non-fibrous (other)	None Detected
18 191411166-0018	BRIDGING MASTIC BASEMENT BOILER RM	Gray/Yellow Fibrous Homogeneous	25%	Glass	75% Non-fibrous (other)	None Detected
19 191411166-0019	SPRAY-ON FIRE PROOFING BSMT BOILER RM CEILING - JOIST	Gray Fibrous Homogeneous	55%	Min. Wool	45% Non-fibrous (other)	None Detected

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Sample	Description	Appearance	Non-Asbestos		Asbestos	
			%	Fibrous	%	Type
20 191411166-0020	SPRAY-ON FIRE PROOFING BSMT BOILER RM CEILING - JOIST	Gray Fibrous Homogeneous	55%	Min. Wool	45% Non-fibrous (other)	None Detected
21 191411166-0021	SPRAY-ON FIRE PROOFING BSMT BOILER RM CEILING - JOIST	Gray Fibrous Homogeneous	55%	Min. Wool	45% Non-fibrous (other)	None Detected
22 191411166-0022	SPRAY-ON FIRE PROOFING BSMT. STAIRWELL CEILING	Gray/White Fibrous Homogeneous	60%	Min. Wool	40% Non-fibrous (other)	None Detected
23 191411166-0023	SPRAY-ON FIRE PROOFING BSMT. STAIRWELL CEILING	Gray Fibrous Homogeneous	55%	Min. Wool	45% Non-fibrous (other)	None Detected
24 191411166-0024	SPRAY-ON FIRE PROOFING BSMT. STAIRWELL CEILING	Gray Non-Fibrous Homogeneous	55%	Min. Wool	45% Non-fibrous (other)	None Detected
25 191411166-0025	SPRAY-ON FIRE PROOFING BSMT. STAIRWELL CEILING	Gray/White Fibrous Homogeneous	65%	Min. Wool	35% Non-fibrous (other)	None Detected

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Sample	Description	Appearance	Non-Asbestos		Asbestos
			% Fibrous	% Non-Fibrous	% Type
26 191411166-0026	WHT. DOOR CAULK BSMT BOILER RM EXT DOOR, POOL EXIT - . STAGE ANTEROOM	White Non-Fibrous Homogeneous		100% Non-fibrous (other)	None Detected
27 191411166-0027	WHT. DOOR CAULK BSMT BOILER RM EXT DOOR, POOL EXIT - . STAGE ANTEROOM	Gray/White Non-Fibrous Homogeneous		100% Non-fibrous (other)	None Detected
28 191411166-0028	WHT. DOOR CAULK BSMT BOILER RM EXT DOOR, POOL EXIT - . STAGE ANTEROOM	Gray/White/Yellow Non-Fibrous Homogeneous		15% Quartz 85% Non-fibrous (other)	None Detected
			0		
29 191411166-0029	GRAY DUCT SEALANT 2ND FL MECH. RM	Gray Non-Fibrous Homogeneous		100% Non-fibrous (other)	None Detected
30 191411166-0030	GRAY DUCT SEALANT 2ND FL MECH. RM	Gray Non-Fibrous Homogeneous		100% Non-fibrous (other)	None Detected
31 191411166-0031	GRAY DUCT SEALANT 2ND FL MECH. RM	Gray Non-Fibrous Homogeneous		100% Non-fibrous (other)	None Detected

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Sample	Description	Appearance	Non-Asbestos		Asbestos
			% Fibrous	% Non-Fibrous	% Type
32 191411166-0032	DRYWALL JOINT COMPOUND JANITOR CLOSET BY POOL	White Non-Fibrous Homogeneous		20% Mica 80% Non-fibrous (other)	None Detected
33 191411166-0033	DRYWALL JOINT COMPOUND JANITOR CLOSET BY POOL	White Non-Fibrous Homogeneous		20% Mica 80% Non-fibrous (other)	None Detected
34 191411166-0034	DRYWALL JOINT COMPOUND JANITOR CLOSET BY POOL	Gray/White/Beige Non-Fibrous Homogeneous		25% Mica 75% Non-fibrous (other)	None Detected
35-Skim Coat 191411166-0035	PLASTER WALL 2ND FL OPEN MECH. AREA	White Non-Fibrous Homogeneous		100% Non-fibrous (other)	None Detected
35-Rough Coat 191411166-0035A	PLASTER WALL 2ND FL OPEN MECH. AREA	Tan Non-Fibrous Homogeneous	4% Cellulose	45% Quartz 51% Non-fibrous (other)	None Detected
36-Skim Coat 191411166-0036	PLASTER WALL 2ND FL OPEN MECH. AREA	White Non-Fibrous Homogeneous		100% Non-fibrous (other)	None Detected
36-Rough Coat 191411166-0036A	PLASTER WALL 2ND FL OPEN MECH. AREA	Tan Non-Fibrous Homogeneous	3% Cellulose	45% Quartz 52% Non-fibrous (other)	None Detected

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			% Fibrous	% Non-Fibrous	% Type
37-Skim Coat 191411166-0037	PLASTER WALL 2ND FL OPEN MECH. AREA	White Non-Fibrous Homogeneous		100% Non-fibrous (other)	None Detected
37-Rough Coat 191411166-0037A	PLASTER WALL 2ND FL OPEN MECH. AREA	Brown/Beige Fibrous Homogeneous	2% Cellulose	50% Quartz 48% Non-fibrous (other)	None Detected
38-White Layer 191411166-0038	PLASTER CEILING 2ND FL OPEN STORAGE AREA	White Non-Fibrous Homogeneous		4% Perlite 96% Non-fibrous (other)	None Detected
38-Black Layer 191411166-0038A	PLASTER CEILING 2ND FL OPEN STORAGE AREA	Brown/Black Fibrous Heterogeneous	10% Cellulose	80% Non-fibrous (other)	10% Chrysotile
39-White Layer 191411166-0039	PLASTER CEILING 2ND FL OPEN STORAGE AREA	Gray/White Non-Fibrous Homogeneous		100% Non-fibrous (other)	None Detected
39-Black Layer 191411166-0039A	PLASTER CEILING 2ND FL OPEN STORAGE AREA				Stop Positive (Not Analyzed)
40-Cove Base 191411166-0040	4" BRN. COVEBASE W/ASSOC. TAN MASTIC HALLWAY TO - POOL. MEN'S LOCKER RM, KITCHEN	Brown Non-Fibrous Homogeneous		20% Ca Carbonate 80% Non-fibrous (other)	None Detected

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<http://www.EMSL.com>beltsvillelab@emsl.com

EMSL Order: 191411166

CustomerID: ECMA78

CustomerPO:

ProjectID:

Attn: **Glenn Pyle**
ECS Mid-Atlantic, LLC
14026 Thunderbolt Place
Suite 100
Chantilly, VA 20151

Phone: (703) 471-8400
Fax:
Received: 10/24/14 9:45 AM
Analysis Date: 10/27/2014
Collected: 10/22/2014

Project: 23603

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

Sample	Description	Appearance	Non-Asbestos		Asbestos
			% Fibrous	% Non-Fibrous	% Type
40-Mastic 191411166-0040A	4" BRN. COVEBASE W/ASSOC. TAN MASTIC HALLWAY TO - POOL. MEN'S LOCKER RM, KITCHEN	Tan Non-Fibrous Homogeneous	2% Synthetic	98% Non-fibrous (other)	None Detected
41-Cove Base 191411166-0041	4" BRN. COVEBASE W/ASSOC. TAN MASTIC HALLWAY TO - POOL. MEN'S LOCKER RM, KITCHEN	Brown Non-Fibrous Homogeneous		20% Ca Carbonate 80% Non-fibrous (other)	None Detected
41-Mastic 191411166-0041A	4" BRN. COVEBASE W/ASSOC. TAN MASTIC HALLWAY TO - POOL. MEN'S LOCKER RM, KITCHEN	Tan/White Non-Fibrous Heterogeneous	3% Synthetic	97% Non-fibrous (other)	None Detected
42-Cove Base 191411166-0042	4" BRN. COVEBASE W/ASSOC. TAN MASTIC HALLWAY TO - POOL. MEN'S LOCKER RM, KITCHEN	Brown/Gray Fibrous Homogeneous		25% Ca Carbonate 75% Non-fibrous (other)	None Detected

Analyst(s)

George Malone (24)

Matthew Daigneault (101)

Luba Stockert (63)

Joe Centifonti, Laboratory Manager
or other approved signatory

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Samples analyzed by EMSL Analytical, Inc. Beltsville, MD NVLAP Lab Code 200293-0

Initial report from 10/28/2014 10:35:21

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			% Fibrous	% Non-Fibrous	% Type
42-Mastic 191411166-0042A	4" BRN. COVEBASE W/ASSOC. TAN MASTIC HALLWAY TO - POOL. MEN'S LOCKER RM, KITCHEN	White/Yellow Fibrous Heterogeneous	2% Synthetic	15% Mica 83% Non-fibrous (other)	None Detected
43-Cove Base 191411166-0043	4" AQUA COVEBASE W/ASSOC. TAN MASTIC POOL	Blue/Green Non-Fibrous Homogeneous		15% Ca Carbonate 85% Non-fibrous (other)	None Detected
43-Mastic 191411166-0043A	4" AQUA COVEBASE W/ASSOC. TAN MASTIC POOL	Tan Non-Fibrous Homogeneous		100% Non-fibrous (other)	None Detected
44-Cove Base 191411166-0044	4" AQUA COVEBASE W/ASSOC. TAN MASTIC POOL	Blue/Green Non-Fibrous Homogeneous		15% Ca Carbonate 85% Non-fibrous (other)	None Detected
44-Mastic 191411166-0044A	4" AQUA COVEBASE W/ASSOC. TAN MASTIC POOL	Tan Non-Fibrous Homogeneous	1% Synthetic	99% Non-fibrous (other)	None Detected
45-Cove Base 191411166-0045	4" AQUA COVEBASE W/ASSOC. TAN MASTIC POOL	Gray/Blue Non-Fibrous Homogeneous		20% Ca Carbonate 80% Non-fibrous (other)	None Detected

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

Sample	Description	Appearance	Non-Asbestos		Asbestos
			% Fibrous	% Non-Fibrous	% Type
45-Mastic 191411166-0045A	4" AQUA COVEBASE W/ASSOC. TAN MASTIC POOL	Gray/Blue/Yellow Fibrous Homogeneous	3% Synthetic	97% Non-fibrous (other)	None Detected
46 191411166-0046	GRAY WINDOW CAULK POOL	Gray/White Non-Fibrous Homogeneous		100% Non-fibrous (other)	None Detected
47 191411166-0047	GRAY WINDOW CAULK POOL	Gray/White Non-Fibrous Homogeneous		100% Non-fibrous (other)	None Detected
48 191411166-0048	GRAY WINDOW CAULK POOL	Gray/White Fibrous Homogeneous	5% Cellulose 7% Glass	88% Non-fibrous (other)	None Detected
49 191411166-0049	MIXED MASTIC UNDER RUBBER MATTING POOL	Tan Non-Fibrous Homogeneous		100% Non-fibrous (other)	None Detected
50 191411166-0050	MIXED MASTIC UNDER RUBBER MATTING POOL	Tan Non-Fibrous Homogeneous		100% Non-fibrous (other)	None Detected
51 191411166-0051	MIXED MASTIC UNDER RUBBER MATTING POOL	Brown/Yellow Fibrous Homogeneous	2% Synthetic	98% Non-fibrous (other)	None Detected
52 191411166-0052	BRN. WINDOW MASTIC POOL	Brown/White/Blue Non-Fibrous Heterogeneous	3% Cellulose	97% Non-fibrous (other)	None Detected

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

Sample	Description	Appearance	Non-Asbestos		Asbestos
			% Fibrous	% Non-Fibrous	% Type
53 191411166-0053	BRN. WINDOW MASTIC POOL	Brown/White/Blue Non-Fibrous Heterogeneous	4% Cellulose	96% Non-fibrous (other)	None Detected
54 191411166-0054	BRN. WINDOW MASTIC POOL	Brown Fibrous Homogeneous	3% Cellulose 2% Synthetic	95% Non-fibrous (other)	None Detected
55-Cove Base 191411166-0055	4" BLK. COVEBASE W/ASSOC. YELLOW MASTIC STAGE HALL	Black Non-Fibrous Homogeneous		15% Ca Carbonate 85% Non-fibrous (other)	None Detected
55-Mastic 191411166-0055A	4" BLK. COVEBASE W/ASSOC. YELLOW MASTIC STAGE HALL	Yellow Non-Fibrous Homogeneous		100% Non-fibrous (other)	None Detected
56-Cove Base 191411166-0056	4" BLK. COVEBASE W/ASSOC. YELLOW MASTIC STAGE HALL	Black Non-Fibrous Homogeneous		15% Ca Carbonate 85% Non-fibrous (other)	None Detected
56-Mastic 191411166-0056A	4" BLK. COVEBASE W/ASSOC. YELLOW MASTIC STAGE HALL	Yellow Non-Fibrous Homogeneous	2% Synthetic	98% Non-fibrous (other)	None Detected

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Sample	Description	Appearance	Non-Asbestos		Asbestos
			% Fibrous	% Non-Fibrous	% Type
57-Cove Base 191411166-0057	4" BLK. COVEBASE W/ASSOC. YELLOW MASTIC STAGE HALL	Black Non-Fibrous Homogeneous		20% Ca Carbonate 80% Non-fibrous (other)	None Detected
57-Mastic 191411166-0057A	4" BLK. COVEBASE W/ASSOC. YELLOW MASTIC STAGE HALL	Brown/Gray/Yello w Fibrous Heterogeneous	5% Synthetic	20% Quartz 75% Non-fibrous (other)	None Detected
58-Floor Tile 191411166-0058	12X12 BRN. MOLTED FT W/ASSOC. BLK. MASTIC STAGE - ANTEROOM	Beige Fibrous Homogeneous		50% Ca Carbonate 44% Non-fibrous (other)	6% Chrysotile
58-Mastic 191411166-0058A	12X12 BRN. MOLTED FT W/ASSOC. BLK. MASTIC STAGE - ANTEROOM	Black Fibrous Homogeneous		93% Non-fibrous (other)	7% Chrysotile
59-Floor Tile 191411166-0059	12X12 BRN. MOLTED FT W/ASSOC. BLK. MASTIC STAGE - ANTEROOM				Stop Positive (Not Analyzed)

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Sample	Description	Appearance	<u>Non-Asbestos</u>		<u>Asbestos</u>
			% Fibrous	% Non-Fibrous	% Type
59-Mastic 191411166-0059A	12X12 BRN. MOLTED FT W/ASSOC. BLK. MASTIC STAGE - ANTEROOM				Stop Positive (Not Analyzed)
60-Floor Tile 191411166-0060	12X12 BRN. MOLTED FT W/ASSOC. BLK. MASTIC STAGE - ANTEROOM				Stop Positive (Not Analyzed)
60-Mastic 191411166-0060A	12X12 BRN. MOLTED FT W/ASSOC. BLK. MASTIC STAGE - ANTEROOM				Stop Positive (Not Analyzed)
61-Floor Tile 191411166-0061	12X12 FEATHER FT W/ASSOC. YELLOW MASTIC STAGE HALL	Tan Non-Fibrous Homogeneous		60% Ca Carbonate 40% Non-fibrous (other)	None Detected
61-Mastic 191411166-0061A	12X12 FEATHER FT W/ASSOC. YELLOW MASTIC STAGE HALL	Brown/Tan/Yellow Non-Fibrous Heterogeneous	2% Synthetic	98% Non-fibrous (other)	None Detected
62-Floor Tile 191411166-0062	12X12 FEATHER FT W/ASSOC. YELLOW MASTIC STAGE HALL	Tan Non-Fibrous Homogeneous		60% Ca Carbonate 40% Non-fibrous (other)	None Detected

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Non-Asbestos					Asbestos	
Sample	Description	Appearance	%	Fibrous	% Non-Fibrous	% Type
62-Mastic 191411166-0062A	12X12 FEATHER FT W/ASSOC. YELLOW MASTIC STAGE HALL	Tan/Yellow Non-Fibrous Homogeneous	2% 1%	Synthetic Cellulose	97% Non-fibrous (other)	None Detected
63-Floor Tile 191411166-0063	12X12 FEATHER FT W/ASSOC. YELLOW MASTIC STAGE HALL	Gray/Tan/Beige Non-Fibrous Homogeneous			60% Ca Carbonate 40% Non-fibrous (other)	None Detected
63-Mastic 191411166-0063A	12X12 FEATHER FT W/ASSOC. YELLOW MASTIC STAGE HALL	Gray/Yellow Fibrous Heterogeneous	5% 2%	Cellulose Synthetic	93% Non-fibrous (other)	None Detected
64 191411166-0064	BLK. SINK UNDERLAY JANITOR CLOSET BY OFFICES	Brown/Black Fibrous Homogeneous	2% 1%	Cellulose Synthetic	91% Non-fibrous (other)	6% Chrysotile
This sample bag is labelled as #64.						
65 191411166-0065	BLK. SINK UNDERLAY JANITOR CLOSET BY OFFICES					Stop Positive (Not Analyzed)
This sample bag is labelled as #65.						

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Sample	Description	Appearance	<u>Non-Asbestos</u>		<u>Asbestos</u>
			% Fibrous	% Non-Fibrous	% Type
66 191411166-0066	BLK. SINK UNDERLAY JANITOR CLOSET BY OFFICES				Stop Positive (Not Analyzed)
This sample bag is labelled as #66.					
67-Cove Base 191411166-0067	4" BRN. COVE BASE W/ASSOC. BLK. & CREAM MASTIC - NORTH OFFICE	Brown Non-Fibrous Homogeneous		15% Ca Carbonate 85% Non-fibrous (other)	None Detected
67-Mastic 191411166-0067A	4" BRN. COVE BASE W/ASSOC. BLK. & CREAM MASTIC - NORTH OFFICE	Brown/White Non-Fibrous Heterogeneous	4% Synthetic	96% Non-fibrous (other)	None Detected
68-Cove Base 191411166-0068	4" BRN. COVE BASE W/ASSOC. BLK. & CREAM MASTIC - NORTH OFFICE	Brown Non-Fibrous Homogeneous		15% Ca Carbonate 85% Non-fibrous (other)	None Detected
68-Mastic 191411166-0068A	4" BRN. COVE BASE W/ASSOC. BLK. & CREAM MASTIC - NORTH OFFICE	Brown/White Non-Fibrous Heterogeneous	2% Synthetic	98% Non-fibrous (other)	None Detected
69-Cove Base 191411166-0069	4" BRN. COVE BASE W/ASSOC. BLK. & CREAM MASTIC - NORTH OFFICE	Brown Non-Fibrous Homogeneous		15% Ca Carbonate 85% Non-fibrous (other)	None Detected

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			% Fibrous	% Non-Fibrous	% Type
69-Mastic 191411166-0069A	4" BRN. COVE BASE W/ASSOC. BLK. & CREAM MASTIC - NORTH OFFICE	Brown/Tan Non-Fibrous Homogeneous	3% Synthetic	97% Non-fibrous (other)	None Detected
70 191411166-0070	YELLOW CARPET MASTIC OFFICE	Yellow Non-Fibrous Homogeneous		100% Non-fibrous (other)	None Detected
71 191411166-0071	YELLOW CARPET MASTIC OFFICE	Yellow Fibrous Homogeneous	6% Synthetic	94% Non-fibrous (other)	None Detected
72 191411166-0072	YELLOW CARPET MASTIC OFFICE	Yellow Non-Fibrous Homogeneous	8% Synthetic	92% Non-fibrous (other)	None Detected
73-Floor Tile 191411166-0073	12X12 WHT. W/MULTI COLORED STREAKS & ASSOC. MASTIC - OFFICE WORK AREA	White/Blue Non-Fibrous Homogeneous		60% Ca Carbonate 40% Non-fibrous (other)	None Detected
73-Mastic 191411166-0073A	12X12 WHT. W/MULTI COLORED STREAKS & ASSOC. MASTIC - OFFICE WORK AREA	Yellow Non-Fibrous Homogeneous	3% Synthetic	97% Non-fibrous (other)	None Detected

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CustomerID: ECMA78

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ProjectID:

Attn: **Glenn Pyle**
ECS Mid-Atlantic, LLC
14026 Thunderbolt Place
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Phone: (703) 471-8400
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Received: 10/24/14 9:45 AM
Analysis Date: 10/27/2014
Collected: 10/22/2014

Project: 23603

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

Sample	Description	Appearance	Non-Asbestos		Asbestos
			% Fibrous	% Non-Fibrous	% Type
74-Floor Tile 191411166-0074	12X12 WHT. W/MULTI COLORED STREAKS & ASSOC. MASTIC - OFFICE WORK AREA	White/Blue Non-Fibrous Homogeneous		60% Ca Carbonate 40% Non-fibrous (other)	None Detected
74-Mastic 191411166-0074A	12X12 WHT. W/MULTI COLORED STREAKS & ASSOC. MASTIC - OFFICE WORK AREA	Yellow Non-Fibrous Homogeneous	2% Synthetic	98% Non-fibrous (other)	None Detected
75-Floor Tile 191411166-0075	12X12 WHT. W/MULTI COLORED STREAKS & ASSOC. MASTIC - OFFICE WORK AREA	Blue Non-Fibrous Homogeneous		60% Ca Carbonate 40% Non-fibrous (other)	None Detected
75-Mastic 191411166-0075A	12X12 WHT. W/MULTI COLORED STREAKS & ASSOC. MASTIC - OFFICE WORK AREA	Yellow Non-Fibrous Homogeneous	3% Synthetic	97% Non-fibrous (other)	None Detected

Analyst(s)

George Malone (24)

Matthew Daigneault (101)

Luba Stockert (63)

Joe Centifonte, Laboratory Manager
or other approved signatory

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Initial report from 10/28/2014 10:35:21

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Sample	Description	Appearance	Non-Asbestos		Asbestos
			% Fibrous	% Non-Fibrous	% Type
76-Cove Base 191411166-0076	4" BLK. COVEBASE W/ASSOC. BLK. MASTIC WEIGHT RM	Brown/Black Non-Fibrous Homogeneous		15% Ca Carbonate 85% Non-fibrous (other)	None Detected
76-Mastic 191411166-0076A	4" BLK. COVEBASE W/ASSOC. BLK. MASTIC WEIGHT RM	Brown Non-Fibrous Homogeneous		100% Non-fibrous (other)	None Detected
77-Cove Base 191411166-0077	4" BLK. COVEBASE W/ASSOC. BLK. MASTIC WEIGHT RM	Brown/Black Non-Fibrous Homogeneous		15% Ca Carbonate 85% Non-fibrous (other)	None Detected
77-Mastic 191411166-0077A	4" BLK. COVEBASE W/ASSOC. BLK. MASTIC WEIGHT RM	Brown Fibrous Homogeneous	5% Synthetic	95% Non-fibrous (other)	None Detected
78-Cove Base 191411166-0078	4" BLK. COVEBASE W/ASSOC. BLK. MASTIC WEIGHT RM	Brown Non-Fibrous Homogeneous		15% Ca Carbonate 85% Non-fibrous (other)	None Detected
78-Mastic 191411166-0078A	4" BLK. COVEBASE W/ASSOC. BLK. MASTIC WEIGHT RM	Brown Non-Fibrous Homogeneous	2% Cellulose 3% Synthetic	95% Non-fibrous (other)	None Detected

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

Sample	Description	Appearance	<u>Non-Asbestos</u>		<u>Asbestos</u>
			% Fibrous	% Non-Fibrous	% Type
79-Floor Tile 191411166-0079	12X12 PINK FEATHERED FT W/ASSOC. YELLOW MASTIC - WEIGHT RM	Pink Non-Fibrous Homogeneous		60% Ca Carbonate 40% Non-fibrous (other)	None Detected
79-Mastic 191411166-0079A	12X12 PINK FEATHERED FT W/ASSOC. YELLOW MASTIC - WEIGHT RM	Yellow Non-Fibrous Homogeneous	2% Synthetic	98% Non-fibrous (other)	None Detected
80-Floor Tile 191411166-0080	12X12 PINK FEATHERED FT W/ASSOC. YELLOW MASTIC - WEIGHT RM	Pink Non-Fibrous Homogeneous		60% Ca Carbonate 40% Non-fibrous (other)	None Detected
80-Mastic 191411166-0080A	12X12 PINK FEATHERED FT W/ASSOC. YELLOW MASTIC - WEIGHT RM	Yellow Non-Fibrous Homogeneous	3% Synthetic	97% Non-fibrous (other)	None Detected
81-Floor Tile 191411166-0081	12X12 PINK FEATHERED FT W/ASSOC. YELLOW MASTIC - WEIGHT RM	Pink Non-Fibrous Homogeneous		60% Ca Carbonate 40% Non-fibrous (other)	None Detected

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Sample	Description	Appearance	Non-Asbestos		Asbestos	
			%	Type	%	Type
81-Mastic 191411166-0081A	12X12 PINK FEATHERED FT W/ASSOC. YELLOW MASTIC - WEIGHT RM	Yellow Non-Fibrous Homogeneous	3%	Synthetic	97%	Non-fibrous (other) None Detected
82 191411166-0082	WHT. PIPE WRAP W/ASSOC. WHT. MASTIC ENTRANCE HALL - CLOSET	Tan/White/Silver Fibrous Heterogeneous	2% 30% 9%	Wollastonite Cellulose Glass	59%	Non-fibrous (other) None Detected
83 191411166-0083	WHT. PIPE WRAP W/ASSOC. WHT. MASTIC ENTRANCE HALL - CLOSET	Tan/White/Silver Non-Fibrous Heterogeneous	1% 30% 9%	Wollastonite Cellulose Glass	60%	Non-fibrous (other) None Detected
84 191411166-0084	WHT. PIPE WRAP W/ASSOC. WHT. MASTIC ENTRANCE HALL - CLOSET	Tan/White/Silver Fibrous Heterogeneous	20% 25%	Cellulose Glass	55%	Non-fibrous (other) None Detected
85-Joint Compound 191411166-0085	DRYWALL WALL W/SKIM COAT & GRAY BASE 2ND FL MECH - RM	White Non-Fibrous Homogeneous			20% 80%	Mica Non-fibrous (other) None Detected

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Sample	Description	Appearance	<u>Non-Asbestos</u>		<u>Asbestos</u>
			% Fibrous	% Non-Fibrous	% Type
85-Drywall 191411166-0085A	DRYWALL WALL W/SKIM COAT & GRAY BASE 2ND FL MECH - RM	Gray/Tan Fibrous Heterogeneous	20% Cellulose	70% Gypsum 10% Non-fibrous (other)	None Detected
86-Joint Compound 191411166-0086	DRYWALL WALL W/SKIM COAT & GRAY BASE 2ND FL MECH - RM	White Non-Fibrous Homogeneous		20% Mica 80% Non-fibrous (other)	None Detected
86-Drywall 191411166-0086A	DRYWALL WALL W/SKIM COAT & GRAY BASE 2ND FL MECH - RM	Gray/Tan Fibrous Heterogeneous	15% Cellulose	80% Gypsum 5% Non-fibrous (other)	None Detected
87-Joint Compound 191411166-0087	DRYWALL WALL W/SKIM COAT & GRAY BASE 2ND FL MECH - RM	White Non-Fibrous Homogeneous		15% Mica 85% Non-fibrous (other)	None Detected
87-Drywall 191411166-0087A	DRYWALL WALL W/SKIM COAT & GRAY BASE 2ND FL MECH - RM	Brown/Gray Fibrous Homogeneous	5% Cellulose	75% Gypsum 20% Non-fibrous (other)	None Detected
88 191411166-0088	DRYWALL WALLBOARD W/TAN BASE 2ND FL ROOF ACCESS - HATCH	Brown/Gray Fibrous Heterogeneous	15% Cellulose	65% Gypsum 20% Non-fibrous (other)	None Detected
89 191411166-0089	DRYWALL WALLBOARD W/TAN BASE 2ND FL ROOF ACCESS - HATCH	Brown/Gray Fibrous Heterogeneous	20% Cellulose	65% Gypsum 15% Non-fibrous (other)	None Detected

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

Sample	Description	Appearance	Non-Asbestos		Asbestos
			% Fibrous	% Non-Fibrous	% Type
90 191411166-0090	DRYWALL WALLBOARD W/TAN BASE 2ND FL ROOF ACCESS - HATCH	Tan Fibrous Homogeneous	6% Cellulose	90% Gypsum 4% Non-fibrous (other)	None Detected
91-Drywall 191411166-0091	DRYWALL WALLBOARD W/SKIM COAT & WHT. BASE JANITOR - CLOSET BY POOL	Brown/White Non-Fibrous Homogeneous	15% Cellulose 20% Glass	65% Non-fibrous (other)	None Detected
91-Joint Compound 191411166-0091A	DRYWALL WALLBOARD W/SKIM COAT & WHT. BASE JANITOR - CLOSET BY POOL	White Non-Fibrous Homogeneous		15% Mica 85% Non-fibrous (other)	None Detected
92-Drywall 191411166-0092	DRYWALL WALLBOARD W/SKIM COAT & WHT. BASE JANITOR - CLOSET BY POOL	Brown/White Fibrous Heterogeneous	15% Cellulose 20% Glass	65% Non-fibrous (other)	None Detected

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Sample	Description	Appearance	Non-Asbestos		Asbestos
			% Fibrous	% Non-Fibrous	% Type
92-Joint Compound 191411166-0092A	DRYWALL WALLBOARD W/SKIM COAT & WHT. BASE JANITOR - CLOSET BY POOL	White Non-Fibrous Homogeneous		15% Mica 85% Non-fibrous (other)	None Detected
93 191411166-0092B	DRYWALL WALLBOARD W/SKIM COAT & WHT. BASE JANITOR - CLOSET BY POOL	White Fibrous Homogeneous	8% Glass	90% Gypsum 2% Non-fibrous (other)	None Detected
Drywall only. This sample is not included in the chain (there are only 2 listed samples for this HA). Call us if you wish this to be removed.					
301 191411166-0093	BRN. JOINT MASTIC BRICK WALL SENIOR CENTER	Brown Non-Fibrous Homogeneous		12% Quartz 88% Non-fibrous (other)	None Detected
302 191411166-0094	BRN. JOINT MASTIC BRICK WALL SENIOR CENTER	Brown Non-Fibrous Homogeneous		10% Quartz 90% Non-fibrous (other)	None Detected
303 191411166-0095	BRN. JOINT MASTIC BRICK WALL SENIOR CENTER	Brown Non-Fibrous Homogeneous		100% Non-fibrous (other)	None Detected
304 191411166-0096	WHT. WINDOW MASTIC SENIOR CENTER	White Non-Fibrous Homogeneous		100% Non-fibrous (other)	None Detected

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Sample	Description	Appearance	% Fibrous	Non-Asbestos		% Type
				% Non-Fibrous		
305 191411166-0097	WHT. WINDOW MASTIC SENIOR CENTER	White Non-Fibrous Homogeneous		100% Non-fibrous (other)		None Detected
306 191411166-0098	WHT. WINDOW MASTIC SENIOR CENTER	Gray/White Non-Fibrous Homogeneous		100% Non-fibrous (other)		None Detected
307 191411166-0099	12X12 CT SENIOR CENTER	Gray/White Fibrous Homogeneous	15% Cellulose 50% Glass	10% Perlite 25% Non-fibrous (other)		None Detected
308 191411166-0100	12X12 CT SENIOR CENTER	Gray/White Fibrous Homogeneous	15% Cellulose 40% Glass	15% Perlite 30% Non-fibrous (other)		None Detected
309 191411166-0101	12X12 CT SENIOR CENTER	Beige Fibrous Homogeneous	6% Cellulose 80% Glass	14% Non-fibrous (other)		None Detected
310-Floor Tile 191411166-0102	LT BLUE 12X12 FT & MASTIC SENIOR CENTER	Blue Non-Fibrous Homogeneous		60% Ca Carbonate 40% Non-fibrous (other)		None Detected
310-Mastic 191411166-0102A	LT BLUE 12X12 FT & MASTIC SENIOR CENTER	Yellow Non-Fibrous Homogeneous	3% Cellulose	97% Non-fibrous (other)		None Detected
311-Floor Tile 191411166-0103	LT BLUE 12X12 FT & MASTIC SENIOR CENTER	Blue Non-Fibrous Homogeneous		60% Ca Carbonate 40% Non-fibrous (other)		None Detected

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			% Fibrous	% Non-Fibrous	% Type
311-Mastic 191411166-0103A	LT BLUE 12X12 FT & MASTIC SENIOR CENTER	Yellow Non-Fibrous Homogeneous	5% Cellulose	95% Non-fibrous (other)	None Detected
312-Floor Tile 191411166-0104	LT BLUE 12X12 FT & MASTIC SENIOR CENTER	Blue Non-Fibrous Homogeneous		60% Ca Carbonate 40% Non-fibrous (other)	None Detected
312-Mastic 191411166-0104A	LT BLUE 12X12 FT & MASTIC SENIOR CENTER	Yellow Fibrous Homogeneous	6% Cellulose	94% Non-fibrous (other)	None Detected
313-Floor Tile 191411166-0105	DK. BLUE 12X12 FT & MASTIC SENIOR CENTER	Blue Non-Fibrous Homogeneous		60% Ca Carbonate 40% Non-fibrous (other)	None Detected
313-Mastic 191411166-0105A	DK. BLUE 12X12 FT & MASTIC SENIOR CENTER	Yellow Non-Fibrous Homogeneous	3% Cellulose	97% Non-fibrous (other)	None Detected
314-Floor Tile 191411166-0106	DK. BLUE 12X12 FT & MASTIC SENIOR CENTER	Blue Non-Fibrous Homogeneous		60% Ca Carbonate 40% Non-fibrous (other)	None Detected
314-Mastic 191411166-0106A	DK. BLUE 12X12 FT & MASTIC SENIOR CENTER	Yellow Non-Fibrous Homogeneous	5% Cellulose	95% Non-fibrous (other)	None Detected
315-Floor Tile 191411166-0107	DK. BLUE 12X12 FT & MASTIC SENIOR CENTER	Blue Non-Fibrous Homogeneous		60% Ca Carbonate 40% Non-fibrous (other)	None Detected

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Samples analyzed by EMSL Analytical, Inc. Beltsville, MD NVLAP Lab Code 200293-0

Initial report from 10/28/2014 10:35:21

**EMSL Analytical, Inc.**

10768 Baltimore Avenue, Beltsville, MD 20705

Phone/Fax: (301) 937-5700 / (301) 937-5701

<http://www.EMSL.com>beltsvillelab@emsl.com

EMSL Order: 191411166

CustomerID: ECMA78

CustomerPO:

ProjectID:

Attn: **Glenn Pyle**
ECS Mid-Atlantic, LLC
14026 Thunderbolt Place
Suite 100
Chantilly, VA 20151

Phone: (703) 471-8400
 Fax:
 Received: 10/24/14 9:45 AM
 Analysis Date: 10/27/2014
 Collected: 10/22/2014

Project: 23603

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

Sample	Description	Appearance	<u>Non-Asbestos</u>		<u>Asbestos</u>
			% Fibrous	% Non-Fibrous	% Type
315-Mastic 191411166-0107A	DK. BLUE 12X12 FT & MASTIC SENIOR CENTER	Yellow Non-Fibrous Homogeneous		100% Non-fibrous (other)	None Detected
316 191411166-0108	YELLOW CARPET MASTIC SENIOR CENTER	Yellow Fibrous Homogeneous	12% Synthetic	88% Non-fibrous (other)	None Detected
317 191411166-0109	YELLOW CARPET MASTIC SENIOR CENTER	Yellow Fibrous Homogeneous	15% Synthetic	85% Non-fibrous (other)	None Detected
318 191411166-0110	YELLOW CARPET MASTIC SENIOR CENTER	Yellow Fibrous Homogeneous	8% Synthetic	92% Non-fibrous (other)	None Detected
319-Cove Base 191411166-0111	BLK. CB & MASTIC SENIOR CENTER	Black Non-Fibrous Homogeneous		10% Ca Carbonate 90% Non-fibrous (other)	None Detected
319-Mastic 191411166-0111A	BLK. CB & MASTIC SENIOR CENTER	Tan Non-Fibrous Homogeneous		100% Non-fibrous (other)	None Detected
320-Cove Base 191411166-0112	BLK. CB & MASTIC SENIOR CENTER	Black Non-Fibrous Homogeneous		15% Ca Carbonate 85% Non-fibrous (other)	None Detected
320-Mastic 191411166-0112A	BLK. CB & MASTIC SENIOR CENTER	Tan Non-Fibrous Homogeneous		100% Non-fibrous (other)	None Detected

Analyst(s)

George Malone (24)

Matthew Daigneault (101)

Luba Stockert (63)

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Project: 23603

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

Sample	Description	Appearance	% Fibrous	Non-Asbestos		Asbestos
				% Non-Fibrous		% Type
321-Cove Base 191411166-0113	BLK. CB & MASTIC SENIOR CENTER	Black Non-Fibrous Homogeneous		15% Ca Carbonate 85% Non-fibrous (other)		None Detected
321-Mastic 191411166-0113A	BLK. CB & MASTIC SENIOR CENTER	Brown/Yellow Non-Fibrous Heterogeneous		100% Non-fibrous (other)		None Detected
322 191411166-0114	DRYWALL SENIOR CENTER	Gray Fibrous Homogeneous	10% Cellulose 12% Glass	70% Gypsum 8% Non-fibrous (other)		None Detected
323 191411166-0115	DRYWALL SENIOR CENTER	Gray Fibrous Homogeneous	10% Cellulose 8% Glass	65% Gypsum 17% Non-fibrous (other)		None Detected
324 191411166-0116	DRYWALL SENIOR CENTER	Gray Fibrous Homogeneous	3% Cellulose 4% Glass	90% Gypsum 3% Non-fibrous (other)		None Detected
325 191411166-0117	JC SENIOR CENTER	White Fibrous Heterogeneous	10% Cellulose	15% Mica 75% Non-fibrous (other)		None Detected
326 191411166-0118	JC SENIOR CENTER	White Non-Fibrous Homogeneous		15% Mica 85% Non-fibrous (other)		None Detected
327 191411166-0119	JC SENIOR CENTER	White Non-Fibrous Homogeneous		10% Mica 10% Perlite 80% Non-fibrous (other)		None Detected

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

Sample	Description	Appearance	Non-Asbestos		Asbestos
			% Fibrous	% Non-Fibrous	% Type
328-Floor Tile 191411166-0120	GREY 12X12 FT & MASTIC SENIOR CENTER CLOSET	Brown Non-Fibrous Homogeneous		92% Non-fibrous (other)	8% Chrysotile
328-Mastic 191411166-0120A	GREY 12X12 FT & MASTIC SENIOR CENTER CLOSET	Brown Non-Fibrous Homogeneous		100% Non-fibrous (other)	None Detected
329-Floor Tile 191411166-0121	GREY 12X12 FT & MASTIC SENIOR CENTER CLOSET				Stop Positive (Not Analyzed)
329-Mastic 191411166-0121A	GREY 12X12 FT & MASTIC SENIOR CENTER CLOSET	Brown Non-Fibrous Homogeneous	2% Cellulose	98% Non-fibrous (other)	None Detected
330-Floor Tile 191411166-0122	GREY 12X12 FT & MASTIC SENIOR CENTER CLOSET				Stop Positive (Not Analyzed)
330-Mastic 191411166-0122A	GREY 12X12 FT & MASTIC SENIOR CENTER CLOSET	Tan Non-Fibrous Homogeneous		100% Non-fibrous (other)	None Detected
331 191411166-0123	EXT. BRN. JOINT CAULK SENIOR CENTER	Brown Non-Fibrous Homogeneous		100% Non-fibrous (other)	None Detected

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Sample	Description	Appearance	Non-Asbestos		Asbestos
			% Fibrous	% Non-Fibrous	% Type
332 191411166-0124	EXT. BRN. JOINT CAULK SENIOR CENTER	Brown Non-Fibrous Homogeneous		100% Non-fibrous (other)	None Detected
333 191411166-0125	EXT. BRN. JOINT CAULK SENIOR CENTER	Brown/Gray Non-Fibrous Homogeneous		100% Non-fibrous (other)	None Detected
334 191411166-0126	BRN. LINOLEUM SENIOR CENTER BATHRMS	Brown Fibrous Heterogeneous	12% Glass	88% Non-fibrous (other)	None Detected
335 191411166-0127	BRN. LINOLEUM SENIOR CENTER BATHRMS	Brown Fibrous Heterogeneous	14% Glass	86% Non-fibrous (other)	None Detected
336 191411166-0128	BRN. LINOLEUM SENIOR CENTER BATHRMS	Brown/Gray Fibrous Heterogeneous	14% Glass	86% Non-fibrous (other)	None Detected
337 191411166-0129	MSTIC FOR 334- 336 SENIOR CENTER BATHRMS	Brown Non-Fibrous Homogeneous		100% Non-fibrous (other)	None Detected
338 191411166-0130	MSTIC FOR 334- 336 SENIOR CENTER BATHRMS	Brown Non-Fibrous Homogeneous		100% Non-fibrous (other)	None Detected

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

Sample	Description	Appearance	Non-Asbestos		Asbestos	
			% Fibrous	% Non-Fibrous	% Type	
339 191411166-0131	MSTIC FOR 334-336 SENIOR CENTER BATHRMS	Brown/Tan Fibrous Homogeneous	4% Cellulose 2% Glass	94% Non-fibrous (other)	None Detected	
340 191411166-0132	EXT. DOOR/WINDOW CAULK SENIOR CENTER	Brown Non-Fibrous Homogeneous	5% Glass	95% Non-fibrous (other)	None Detected	
341 191411166-0133	EXT. DOOR/WINDOW CAULK SENIOR CENTER	Brown Non-Fibrous Homogeneous	5% Glass	95% Non-fibrous (other)	None Detected	
342 191411166-0134	EXT. DOOR/WINDOW CAULK SENIOR CENTER	Gray Fibrous Homogeneous	7% Glass	93% Non-fibrous (other)	None Detected	
343 191411166-0135	EXT. DOOR/WINDOW CAULK POOL BLDG	Brown Non-Fibrous Homogeneous		12% Quartz 88% Non-fibrous (other)	None Detected	
344 191411166-0136	EXT. DOOR/WINDOW CAULK POOL BLDG	Brown Non-Fibrous Homogeneous		14% Quartz 86% Non-fibrous (other)	None Detected	
345 191411166-0137	EXT. DOOR/WINDOW CAULK POOL BLDG	Brown Non-Fibrous Homogeneous		100% Non-fibrous (other)	None Detected	

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Sample	Description	Appearance	Non-Asbestos		Asbestos	
			% Fibrous	% Non-Fibrous	% Type	
346 191411166-0138	EXT. DOOR/WINDOW CAULK POOL BLDG	Brown Non-Fibrous Homogeneous		10% Quartz 90% Non-fibrous (other)		None Detected
347 191411166-0139	EXT. DOOR/WINDOW CAULK POOL BLDG	Brown Non-Fibrous Homogeneous		12% Quartz 88% Non-fibrous (other)		None Detected
348 191411166-0140	EXT. DOOR/WINDOW CAULK POOL BLDG	Brown Non-Fibrous Homogeneous		100% Non-fibrous (other)		None Detected
349 191411166-0141	PINHOLE 12X12 CT POOL BLDG	Gray/White Fibrous Homogeneous	35% Cellulose 10% Glass	25% Perlite 30% Non-fibrous (other)		None Detected
350 191411166-0142	PINHOLE 12X12 CT POOL BLDG	Gray/White Non-Fibrous Homogeneous	40% Cellulose 15% Glass	25% Perlite 20% Non-fibrous (other)		None Detected
351 191411166-0143	PINHOLE 12X12 CT POOL BLDG	Gray/White Fibrous Homogeneous	30% Cellulose 30% Glass	35% Perlite 5% Non-fibrous (other)		None Detected
352 191411166-0144	FURROWS 12X12 CT POOL BLDG	Gray/White Fibrous Homogeneous	10% Cellulose 25% Glass	20% Perlite 45% Non-fibrous (other)		None Detected
353 191411166-0145	FURROWS 12X12 CT POOL BLDG	Gray/White Non-Fibrous Homogeneous	15% Cellulose 35% Glass	20% Perlite 30% Non-fibrous (other)		None Detected

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Sample	Description	Appearance	% Fibrous	Non-Asbestos		% Type
				% Non-Fibrous		
354 191411166-0146	FURROWS 12X12 CT POOL BLDG	Gray/White Fibrous Homogeneous	75%	Glass	25% Non-fibrous (other)	None Detected
355 191411166-0147	WHT. MASTIC ON FG TSI POOL BLDG GYM CLOSET	Brown/White/Silver Fibrous Heterogeneous	25% 15%	Cellulose Glass	60% Non-fibrous (other)	None Detected
356 191411166-0148	WHT. MASTIC ON FG TSI POOL BLDG GYM CLOSET	Brown/White/Silver Fibrous Heterogeneous	25% 20%	Cellulose Glass	55% Non-fibrous (other)	None Detected
357 191411166-0149	WHT. MASTIC ON FG TSI POOL BLDG GYM CLOSET	Tan/White/Silver Fibrous Heterogeneous	10% 10% 6%	Wollastonite Cellulose Glass	74% Non-fibrous (other)	None Detected

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ATTACHMENT
DC/EPA GENERATOR ID FORMS

SEND COMPLETED FORM TO: The Appropriate State or Regional Office.	United States Environmental Protection Agency RCRA SUBTITLE C SITE IDENTIFICATION FORM		
1. Reason for Submittal MARK ALL BOX(ES) THAT APPLY	Reason for Submittal: <input type="checkbox"/> To provide an Initial Notification (first time submitting site identification information / to obtain an EPA ID number for this location) <input type="checkbox"/> To provide a Subsequent Notification (to update site identification information for this location) <input type="checkbox"/> As a component of a First RCRA Hazardous Waste Part A Permit Application <input type="checkbox"/> As a component of a Revised RCRA Hazardous Waste Part A Permit Application (Amendment # _____) <input type="checkbox"/> As a component of the Hazardous Waste Report (If marked, see sub-bullet below) <input type="checkbox"/> Site was a TSD facility and/or generator of $\geq 1,000$ kg of hazardous waste, >1 kg of acute hazardous waste, or >100 kg of acute hazardous waste spill cleanup in <u>one or more months</u> of the report year (or State equivalent LQG regulations)		
2. Site EPA ID Number	EPA ID Number <input type="text"/> <input type="text"/> <input type="text"/> <input type="text"/> <input type="text"/> <input type="text"/> <input type="text"/> <input type="text"/> <input type="text"/> <input type="text"/> <input type="text"/> <input type="text"/>		
3. Site Name	Name:		
4. Site Location Information	Street Address:		
	City, Town, or Village:		County:
	State:	Country:	Zip Code:
5. Site Land Type	<input type="checkbox"/> Private <input type="checkbox"/> County <input type="checkbox"/> District <input type="checkbox"/> Federal <input type="checkbox"/> Tribal <input type="checkbox"/> Municipal <input type="checkbox"/> State <input type="checkbox"/> Other		
6. NAICS Code(s) for the Site (at least 5-digit codes)	A. <input type="text"/> <input type="text"/> <input type="text"/> <input type="text"/> <input type="text"/> <input type="text"/>		C. <input type="text"/> <input type="text"/> <input type="text"/> <input type="text"/> <input type="text"/> <input type="text"/>
	B. <input type="text"/> <input type="text"/> <input type="text"/> <input type="text"/> <input type="text"/> <input type="text"/>		D. <input type="text"/> <input type="text"/> <input type="text"/> <input type="text"/> <input type="text"/> <input type="text"/>
7. Site Mailing Address	Street or P.O. Box:		
	City, Town, or Village:		
	State:	Country:	Zip Code:
8. Site Contact Person	First Name:		MI: Last:
	Title:		
	Street or P.O. Box:		
	City, Town or Village:		
	State:	Country:	Zip Code:
	Email:		
	Phone:	Ext.:	Fax:
9. Legal Owner and Operator of the Site	A. Name of Site's Legal Owner:		Date Became Owner:
	Owner Type: <input type="checkbox"/> Private <input type="checkbox"/> County <input type="checkbox"/> District <input type="checkbox"/> Federal <input type="checkbox"/> Tribal <input type="checkbox"/> Municipal <input type="checkbox"/> State <input type="checkbox"/> Other		
	Street or P.O. Box:		
	City, Town, or Village:		Phone:
	State:	Country:	Zip Code:
	B. Name of Site's Operator:		Date Became Operator:
	Operator Type: <input type="checkbox"/> Private <input type="checkbox"/> County <input type="checkbox"/> District <input type="checkbox"/> Federal <input type="checkbox"/> Tribal <input type="checkbox"/> Municipal <input type="checkbox"/> State <input type="checkbox"/> Other		

10. Type of Regulated Waste Activity (at your site)Mark "Yes" or "No" for all current activities (as of the date submitting the form); complete any additional boxes as instructed.**A. Hazardous Waste Activities; Complete all parts 1-10.**Y ☐ N ☐**1. Generator of Hazardous Waste**

If "Yes", mark only one of the following – a, b, or c.

- ☐ a. LQG: Generates, in any calendar month, 1,000 kg/mo (2,200 lbs./mo.) or more of hazardous waste; **or** Generates, in any calendar month, or accumulates at any time, more than 1 kg/mo (2.2 lbs./mo) of acute hazardous waste; **or** Generates, in any calendar month, **or** accumulates at any time, more than 100 kg/mo (220 lbs./mo) of acute hazardous spill cleanup material.

- ☐ b. SQG: 100 to 1,000 kg/mo (220 – 2,200 lbs./mo) of non-acute hazardous waste.

- ☐ c. CESQG: Less than 100 kg/mo (220 lbs./mo) of non-acute hazardous waste.

If "Yes" above, indicate other generator activities in 2-4.

Y ☐ N ☐

- 2. Short-Term Generator** (generate from a short-term or one-time event and not from on-going processes). If "Yes", provide an explanation in the Comments section.

Y ☐ N ☐

- 3. United States Importer of Hazardous Waste**

Y ☐ N ☐

- 4. Mixed Waste (hazardous and radioactive) Generator**

Y ☐ N ☐**5. Transporter of Hazardous Waste**

If "Yes", mark all that apply.

- ☐ a. Transporter
☐ b. Transfer Facility (at your site)

Y ☐ N ☐

- 6. Treater, Storer, or Disposer of Hazardous Waste** Note: A hazardous waste Part B permit is required for these activities.

Y ☐ N ☐**7. Recycler of Hazardous Waste**Y ☐ N ☐

- 8. Exempt Boiler and/or Industrial Furnace** If "Yes", mark all that apply.

- ☐ a. Small Quantity On-site Burner Exemption
☐ b. Smelting, Melting, and Refining Furnace Exemption

Y ☐ N ☐

- 9. Underground Injection Control**

Y ☐ N ☐

- 10. Receives Hazardous Waste from Off-site**

B. Universal Waste Activities; Complete all parts 1-2.Y ☐ N ☐

- 1. Large Quantity Handler of Universal Waste** (you accumulate 5,000 kg or more) [refer to your State regulations to determine what is regulated]. Indicate types of universal waste managed at your site. If "Yes", mark all that apply.

- a. Batteries ☐
b. Pesticides ☐
c. Mercury containing equipment ☐
d. Lamps ☐
e. Other (specify) _____ ☐
f. Other (specify) _____ ☐
g. Other (specify) _____ ☐

Y ☐ N ☐

- 2. Destination Facility for Universal Waste**

Note: A hazardous waste permit may be required for this activity.

C. Used Oil Activities; Complete all parts 1-4.Y ☐ N ☐**1. Used Oil Transporter**

If "Yes", mark all that apply.

- ☐ a. Transporter
☐ b. Transfer Facility (at your site)

Y ☐ N ☐

- 2. Used Oil Processor and/or Re-refiner** If "Yes", mark all that apply.

- ☐ a. Processor
☐ b. Re-refiner

Y ☐ N ☐

- 3. Off-Specification Used Oil Burner**

Y ☐ N ☐**4. Used Oil Fuel Marketer**

If "Yes", mark all that apply.

- ☐ a. Marketer Who Directs Shipment of Off-Specification Used Oil to Off-Specification Used Oil Burner
☐ b. Marketer Who First Claims the Used Oil Meets the Specifications

D. Eligible Academic Entities with Laboratories—Notification for opting into or withdrawing from managing laboratory hazardous wastes pursuant to 40 CFR Part 262 Subpart K

❖ You can **ONLY** Opt into Subpart K if:

you are at least one of the following: a college or university; a teaching hospital that is owned by or has a formal affiliation agreement with a college or university; or a non-profit research institute that is owned by or has a formal affiliation agreement with a college or university; AND

you have checked with your State to determine if 40 CFR Part 262 Subpart K is effective in your state

Y☐ N☐

1. Opting into or currently operating under 40 CFR Part 262 Subpart K for the management of hazardous wastes in laboratories

See the item-by-item instructions for definitions of types of eligible academic entities. Mark all that apply:

☐ a. College or University

☐ b. Teaching Hospital that is owned by or has a formal written affiliation agreement with a college or university

☐ c. Non-profit Institute that is owned by or has a formal written affiliation agreement with a college or university

Y☐ N☐

2. Withdrawing from 40 CFR Part 262 Subpart K for the management of hazardous wastes in laboratories

11. Description of Hazardous Waste

A. Waste Codes for Federally Regulated Hazardous Wastes. Please list the waste codes of the Federal hazardous wastes handled at your site. List them in the order they are presented in the regulations (e.g., D001, D003, F007, U112). Use an additional page if more spaces are needed.

B. Waste Codes for State-Regulated (i.e., non-Federal) Hazardous Wastes. Please list the waste codes of the State-Regulated hazardous wastes handled at your site. List them in the order they are presented in the regulations. Use an additional page if more spaces are needed.

OMB#: 2050-0024; Expires _____

Y <input type="checkbox"/>	N <input type="checkbox"/>	Are you notifying under 40 CFR 260.42 that you will begin managing, are managing, or will stop managing hazardous secondary material under 40 CFR 261.2(a)(2)(ii), 40 CFR 261.4(a)(23), (24), or (25)?
If "Yes", you <u>must</u> fill out the Addendum to the Site Identification Form: Notification for Managing Hazardous Secondary Material.		

[illegible]

14. **Certification.** I certify under penalty of law that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gather and evaluate the information submitted. Based on my inquiry of the person or persons who manage the system, or those persons directly responsible for gathering the information, the information submitted is, to the best of my knowledge and belief, true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fines and imprisonment for knowing violations. For the RCRA Hazardous Waste Part A Permit Application, all owner(s) and operator(s) must sign (see 40 CFR 270.10(b) and 270.11).

Signature of legal owner, operator, or an authorized representative	Name and Official Title (type or print)	Date Signed (mm/dd/yyyy)

**ADDENDUM TO THE SITE IDENTIFICATION FORM:
NOTIFICATION OF HAZARDOUS SECONDARY MATERIAL ACTIVITY****ONLY fill out this form if:**

- ❖ You are located in a State that allows you to manage excluded hazardous secondary material (HSM) under 40 CFR 261.2(a)(2)(ii), 261.4(a)(23), (24), or (25) (or state equivalent). See <http://www.epa.gov/epawaste/hazard/dsw/statespf.htm> for a list of eligible states; **AND**
- ❖ You are or will be managing excluded HSM in compliance with 40 CFR 261.2(a)(2)(ii), 261.4(a)(23), (24), or (25) (or state equivalent) **or** you have stopped managing excluded HSM in compliance with the exclusion(s) and do not expect to manage any amount of excluded HSM under the exclusion(s) for at least one year. Do not include any information regarding your hazardous waste activities in this section.

1. Indicate reason for notification. Include dates where requested.

- ☐ Facility will begin managing excluded HSM as of _____ (mm/dd/yyyy).
- ☐ Facility is still managing excluded HSM/re-notifying as required by March 1 of each even-numbered year.
- ☐ Facility has stopped managing excluded HSM as of _____ (mm/dd/yyyy) and is notifying as required.

2. Description of excluded HSM activity. Please list the appropriate codes and quantities in **short tons** to describe your excluded HSM activity ONLY (do not include any information regarding your hazardous wastes). Use additional pages if more space is needed.

a. Facility code (answer using codes listed in the Code List section of the instructions)	b. Waste code(s) for HSM	c. Estimated short tons of excluded HSM to be managed annually	d. Actual short tons of excluded HSM that was managed during the most recent odd- numbered year	e. Land-based unit code (answer using codes listed in the Code List section of the instructions)

3. Facility has financial assurance pursuant to 40 CFR 261.4(a)(24)(vi). (Financial assurance is required for reclaimers and intermediate facilities managing excluded HSM under 40 CFR 261.4(a)(24) and (25))Y ☐ N ☐ Does this facility have financial assurance pursuant to 40 CFR 261.4(a)(24)(vi)?