

HAZARDOUS MATERIALS SURVEY REPORT

Falcon Hall



7600 Takoma Avenue
Takoma Park, Maryland 20912

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046-19-0095

HAZARDOUS MATERIALS SURVEY REPORT

Falcon Hall
Montgomery College – Takoma Park/Silver Spring Campus
7600 Takoma Avenue
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1.0 EXECUTIVE SUMMARY

Applied Environmental, Inc. conducted a hazardous material survey of Falcon Hall, located at the Takoma Park/Silver Spring campus of Montgomery College. The scope of this hazardous materials survey included the interior and exterior of the structure. The hazardous materials assessment included a survey for asbestos-containing material (ACM), lead-containing surface coatings (LCSCs), polychlorinated biphenyl (PCB)-containing equipment, and mercury-containing fixtures. The purpose of the survey was to identify hazardous materials that may be impacted during planned demolition of the structure. This survey was performed by an Environmental Protection Agency (EPA) accredited and State of Maryland licensed asbestos and lead inspector technician from April 10 to 11, 2019.

As a result of the survey, several types of ACM were identified. Details of the survey findings and recommendations are provided in the following sections of this report. All homogeneous materials considered to be potentially asbestos-containing that were identified and sampled during the current survey are delineated in Appendix A, "Homogeneous Material List." The laboratory reports are included in Appendix B, "Asbestos Bulk Sample Analysis Reports." All identified and assumed ACM are reported in Appendix C, "Identified and Assumed Asbestos-Containing Materials Estimated Quantities."

Lead-containing surface coatings were identified on multiple walls, restroom and locker room fixtures, stair components, and floors. A data table of all surfaces tested and identified as lead-containing is attached as Appendix D, "Lead-Containing Surface Coatings." A complete data table presenting results of the X-Ray Fluorescence (XRF) testing for lead is provided as Appendix E, "XRF Test Data."

Based on our survey of light fixtures within the building, all of the inspected ballasts were marked with labeling indicating "No PCBs" or were non PCB-containing electronic ballasts. The fluorescent light tubes may contain quantities of mercury that require disposal as universal waste; however, the tubes should be re-used elsewhere and properly disposed of as universal waste at the end of their life cycle. No mercury thermostats

or other suspect mercury-containing articles were observed within the building.

2.0 BUILDING DESCRIPTION

Falcon Hall was originally constructed circa 1978, and totals approximately 31,400 square feet. Major renovations to the gymnasium area were completed in the last five years. The building comprises two stories with a partial basement level containing mechanical piping and treatment systems associated with the pool area. The building contains a large gymnasium with a mezzanine level running track, a racquetball court, exercise rooms, administrative offices, classrooms, and mechanical spaces.

The building has a cementitious panel exterior with a flat, built-up roof. Interior finishing materials include carpet and floor tile over concrete floors; concrete masonry unit (CMU), gypsum board (drywall), or plaster walls; and suspended ceiling tiles beneath gypsum board or metal ceilings. Mechanical systems are predominantly insulated with fiberglass insulation wrapped in foil or paper with seam mastic.

3.0 SURVEY AND EVALUATION PROCEDURES

3.1 Asbestos-Containing Materials Survey

This hazardous materials survey was conducted in general accordance with AHERA 40 CFR 763 and OSHA Standard 29 CFR 1926.1101 inspection and sampling protocols. Suspect ACM was separated into homogeneous areas. A homogeneous material is defined as a building material that is uniform in color and texture.

A total of 124 representative bulk samples were collected from 60 distinct homogeneous materials suspected to contain asbestos. Attachment 1, "Homogeneous Material List," summarizes each sampled homogeneous material, whether the material is friable, the location of the material, unique sample numbers for collected bulk samples, and if the homogeneous material is asbestos-containing. All collected samples were submitted to AMA Analytical Services, Inc. located in Lanham, Maryland for analysis by Polarized Light Microscopy (PLM) in accordance with the EPA Method for the Determination of Asbestos in Bulk Building Materials (EPA 600/R93/116). The AMA laboratory is accredited by the National Institute of Standards and Technology (NIST) National Voluntary Laboratory Accreditation Program (NVLAP) for asbestos identification by PLM.

3.2 Lead-Containing Surface Coating Screening Survey

The LCSC screening survey was performed to measure lead concentrations of typical painted surfaces in order to provide information for contractors to take precautions and comply with the OSHA Lead in Construction Standard (29 CFR 1926.62).

The lead paint survey was performed using a Niton XLp 300A Spectrum XRF analyzer. The Niton XLp 300A is a hand-held, portable lead detector, capable of immediately determining lead concentrations of tested surfaces in a non-destructive manner. The detection level of the Niton XLp 300A is 0.1 milligrams of lead per square centimeter (mg/cm²) of area tested. Please note that there may be concentrations of lead below this detection limit present throughout the property. The XRF calibration was validated in accordance with the manufacturer's instructions. During the survey, 84 surfaces were tested, including wall systems, door systems, window components, stair components, restroom and locker room fixtures, floors, and structural members.

3.3 Polychlorinated Biphenyl Verification and Mercury-Containing Articles Survey

According to the EPA, all ballasts manufactured prior to July 1978 have a greater than 50% chance of containing PCBs at 50 parts per million (ppm), the regulatory threshold. Ballasts manufactured after July 1978 are required to bear a "No PCBs" label indicating that they do not contain PCBs. Fluorescent light fixtures in the building were scanned with a ballast differentiator sensor, which can determine from floor level if a ballast is magnetic or electronic. Electronic ballasts do not have any packing material. The fluorescent light fixtures containing magnetic ballasts identified within the building were visually inspected for suspect PCB-containing light ballasts.

3.4 Accessibility Limitations

Where possible, the presence of plumbing lines or other mechanical systems observed to penetrate into inaccessible locations were noted, and considered to be consistent with adjacent accessible areas. Significant demolition activities were not performed as part of this survey. Locations within wall systems and pipe chases were not accessed as part of our non-destructive sampling. Suspect asbestos-containing piping systems may be present above fixed ceilings or behind enclosed walls where plumbing systems are expected to be present.

Any previously inaccessible areas or undocumented materials discovered in the future should be evaluated to determine if any material present is considered homogenous with other material samples, or appropriately sampled by an accredited asbestos inspector. Suspect materials not classified in this report are assumed to be asbestos-containing until confirmed otherwise by laboratory analysis.

4.0 RESULTS

4.1 Asbestos-Containing Materials

All homogeneous materials identified in the building that were considered to be potentially asbestos-containing and/or assumed ACM during the survey are indicated in Appendix A, "Homogeneous Material List." The asbestos laboratory analysis reports are included in Appendix B, "Asbestos Bulk Sample Analysis Reports." The laboratory report provides results of all samples collected and the percentage quantities of the entire sample composition (including asbestos and non-asbestos components). All identified ACMs are reported in Appendix C, "Identified and Assumed Asbestos-Containing Materials Estimated Quantities." Of the suspect ACM sampled during the current survey, the following materials (listed with their assigned Material Code) were identified as asbestos-containing:

- Black mastic (FM1) on 12" x 12" off-white floor tile with black and gray streaks (FT1, non-ACM);
- 12" x 12" tan floor tile with cream and brown streaks (FT2) and associated black mastic (FM2);
- Yellow/tan caulk on entry door to Racquetball Court B02;
- Light beige seam mastic (SM5) on paper-wrapped fiberglass insulation in Basement Stair 3 and the Pump and Filter B01 area
- Brown corrugated cementitious panels (TP1) on the exterior of the building;
- Off-white caulk at the CMU block and concrete ceiling (CK6); and
- Black stair tread mastic (STM1) in Stair 1.

The predominant caulk applications at the junction of the CMU block walls and concrete ceilings in the first floor consisted of non-asbestos-containing white (CK4) and gray (CK5) caulk. The off-white caulk (CK6) at the CMU block wall and concrete ceiling was only observed in Men's Locker Room 117A Corridor and 117B Locker and Shower areas, and was covered with red paint. Additional quantities of this material may potentially be present in other areas, especially where the caulk has been painted over and the color has been obscured.

All of the remaining materials sampled during this survey were reported by the laboratory as “No Asbestos Detected.” In addition to those materials sampled and determined by laboratory analysis to be ACM, several materials were identified during the survey that were not sampled but are assumed ACM:

- Pipe gaskets in Mechanical Room 101A (GK1, inaccessible);
- Dark brown seam mastic on bare metal duct (DM4, inaccessible); and
- Fire doors (FD1, not sampled to retain fire rating).

Fire doors and frames, where present, are assumed to be asbestos-containing and were not sampled by Applied Environmental to maintain the integrity and function of these materials. These fire doors are identified by Underwriters Laboratories (UL) fire rating plates located on the door or doorjamb. All rated fire doors throughout the building should be treated as asbestos-containing until sampling determines otherwise.

4.2 Lead-Containing Surface Coatings

XRF analysis detected lead readings in excess of the unit detection limit on the following building components:

- White, teal, green, red, and purple CMU/concrete walls throughout the building;
- White plaster walls in Racquetball Court B02;
- Gray metal stalls in restrooms;
- Gray metal spiral staircase in Stair 2;
- Porcelain sink in Men’s Locker Room 117;
- Tan metal lockers in Locker Rooms;
- Gray concrete floor in Boiler Room 112B;
- Red structural steel beams; and
- White structural steel beams around AHUs on roof.

Additional information regarding these components is provided in Appendix D, “Lead-Containing Surface Coatings”. XRF testing did not detect lead above the detection limit on any other surfaces tested. Refer to Appendix E, “XRF Test Data” for a complete listing of all readings performed by the XRF analyzer. The “Floor” and “Room” columns further define the location of the tested surface. Individual building components

tested are listed under "*Component*." The substrate on which the paint film is applied is noted under "*Substrate*." The condition of the tested component is noted under "*Condition*." The color of the topcoat layer of paint is noted under "*Color*," to assist in determining the location of the building components tested. The actual concentration of lead is recorded in the "*PbC*" column in mg/cm².

4.3 Polychlorinated Biphenyls and Mercury Light Tubes

The vast majority of light fixtures were determined to contain non-PCB electronic ballasts utilizing a ballast differentiator. All fluorescent light fixtures containing magnetic ballasts within the survey area were visually inspected for suspect PCB-containing light ballasts. All visually inspected ballasts contained "No PCBs" labels.

The fluorescent light tubes may contain quantities of mercury that require disposal as universal waste; however, the tubes should be re-used elsewhere and properly disposed of as universal waste at the end of their life cycle. No mercury thermostats were observed within the building.

5.0 RECOMMENDATIONS

5.1 Asbestos-Containing Materials

Prior to demolition or renovation activities that may impact them, all identified and assumed ACM must be removed prior to demolition activities by a qualified State of Maryland licensed asbestos abatement contractor, in accordance with applicable EPA, OSHA, and State of Maryland regulations. In accordance with AHERA, an asbestos abatement project specification will have to be created by an EPA accredited and State of Maryland licensed asbestos project designer.

A non-friable ACM is defined as any material that contains more than one percent asbestos that, when dry, cannot be crumbled, pulverized, or reduced to powder by hand pressure. The following identified and assumed ACMs are non-friable materials as defined by NESHAP:

- Black mastic (FM1) on 12" x 12" off-white floor tile with black and gray streaks (FT1, non-ACM);
- 12" x 12" tan floor tile with cream and brown streaks (FT2) and associated black mastic (FM2);
- Yellow/tan caulk on entry door to Racquetball Court B02;

- Light beige seam mastic (SM5) on paper-wrapped fiberglass insulation in Basement Stair 3 and the Pump and Filter B01 area;
- Brown corrugated cementitious panels (TP1) on the exterior of the building;
- Off-white caulk at the CMU block and concrete ceiling (CK6);
- Black stair tread mastic (STM1) in Stair 1;
- Pipe gaskets in Mechanical Room 101A (GK1, inaccessible);
- Dark brown seam mastic on bare metal duct (DM4, inaccessible); and
- Fire doors (FD1, not sampled to retain fire rating).

The non-friable ACM observed in the building was in good condition. It is expected that these non-friable materials would likely be rendered friable during renovation or demolition; therefore, these materials should be removed prior to any activity that may disturb them.

The OSHA Asbestos in Construction Standard, 29 CFR 1926.1101 requires that any contractor performing work impacting materials that contain asbestos be notified of the testing results, and take appropriate actions to comply with the requirements of the OSHA Standard. Notification should be made in writing and receipted.

5.2 Lead-Containing Surface Coatings

As this was a screening survey, Applied Environmental recommends that components in the building that are similar to those components identified with LCSCs should also be assumed to have LCSCs and be handled in accordance with OSHA's lead standard until additional XRF testing or paint chip analysis proves otherwise.

All construction activities that involve lead are regulated by the OSHA "Lead in Construction Standard" (29 CFR 1926.62). The standard does not define a specific concentration of lead, which must be present within paint for it to be considered "lead-containing." Therefore, painted and glazed surfaces that have detectable concentrations of lead must be handled in accordance with the OSHA Lead in Construction Standard. Any contractor performing work that could impact paint films that have detectable concentrations of lead should be informed of the testing results, and must take appropriate actions to comply with OSHA standards. These appropriate actions include performing air monitoring to measure worker exposure and assuring that the workers are provided with adequate respiratory protection and the appropriate training.

The disposal of lead paint waste generated during demolition operations is regulated by EPA Standard 40 CFR 261, Subpart C. This regulation requires that a Toxicity Characteristic Leaching Procedure (TCLP) test be utilized to determine if the lead paint waste is considered hazardous. A material is considered hazardous if it is ignitable, reactive, corrosive, or toxic. TCLP testing was not included in the scope of work.

5.3 Polychlorinated Biphenyls and Mercury Light Tubes

During any project requiring the removal of light ballasts, each should be individually inspected for the “No PCBs” ballast labeling that is required to be on ballasts that do not contain PCBs. If “No PCBs” is not labeled on the ballast, the ballast must be assumed to contain PCBs, and properly disposed of as hazardous waste.

All fluorescent light tubes contain some mercury. We recommend that light tubes be used to their full life span, and then disposed of as universal waste at the end of their life cycle.

APPENDIX A
HOMOGENEOUS MATERIAL LIST



Homogeneous Material List

Montgomery College – Takoma Park/Silver Spring Campus
 Falcon Hall
 7600 Takoma Avenue
 Takoma Park, Maryland

April 10 and 11, 2019

Material Code	Material Description	Friable (Yes/No)	Material Location	Sample Numbers	ACM (Yes/No)	Approx. Quantity*
DJ1	Drywall with light brown paper and no joint compound	Yes	Classroom 111	01, 02	NAD	---
DM1	Peanut butter brown mastic on metal duct at supply diffusers	No	Classroom 111	03, 04	NAD	---
DM2	Cream mastic on metal duct at supply diffusers	No	Classroom 111	05, 06	NAD	---
CT1	2' x 4' white ceiling tile with dense dots and very small gouges	Yes	Throughout first floor	07, 08	NAD	---
FT1	12" x 12" off-white floor tile with black and gray streaks	No	Corridor 191, Lobby 192, Lobby 203	09, 10	NAD	---
FM1	Black mastic on FT1	No	Corridor 191, Lobby 192, Lobby 203	11, 12	3% Chrysotile	2,794 SF
FT2	12" x 12" tan floor tile with cream and brown streaks	No	Suite 100 Offices, Office 107B, Office 107C, Office 108, Classroom 109, Office 110, Classroom 111 Entry, Stair 2 (with FM3)	34, 38	2% Chrysotile	1,978 SF
FM2	Black mastic on FT2	No	Suite 100 Offices, Office 107B, Office 107C, Office 108, Classroom 109, Office 110, Classroom 111 Entry	35, 39	3% to 5% Chrysotile	1,928 SF
SM1	Dark tan, shiny seam mastic on paper-wrapped fiberglass insulation	No	Throughout first floor	13, 41	NAD	---
DT1	White adhesive tape on duct seams	No	Throughout	14, 33	NAD	---
CBM1	Tan mastic on 4" cove base	No	Throughout (applied over CBM2)	15, 17	NAD	---
CBM2	Brown residual mastic on 4" cove base	No	Throughout	16, 18	NAD	---
PL1	Brown plaster walls and ceiling with white skim coat	Yes	Racquetball Court B02	19, 20, 21, 22, 23	NAD	---
CK1	Yellow/tan caulk on door to Racquetball Court B02	No	Racquetball Court B02	24, 25	2% Chrysotile	18 LF



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Material Code	Material Description	Friable (Yes/No)	Material Location	Sample Numbers	ACM (Yes/No)	Approx. Quantity*
CK2	Off-white caulk	No	Interior doors and windows	26, 125	NAD	---
CK3	Exterior door caulk	No	Day Tank Room	27, 28	NAD	---
SM2	White seam mastic on old paper-wrapped fiberglass insulation	No	Mechanical Room 101B	29, 30	NAD	---
SM3	Cream seam mastic on new paper-wrapped fiberglass insulation	No	Mechanical Room 101B	31, 32	NAD	---
SU1	White sink undercoating	No	111A and 111B	36, 37	NAD	---
DM3	Gray mastic on bare metal duct	No	Storage 118, Corridor 191, Fitness Center 202	40, 44	NAD	---
DM4	White mastic on bare metal duct	No	Corridor 191, Classroom 111 Entry, Fitness Center 201	42, 43	NAD	---
FM3	Tan mastic on FT2	No	Stair 2 at B02	45, 46	NAD	---
DJ2	Drywall with brown paper and white joint compound	Yes	Classroom 111 and 109 walls	49, 55	NAD	---
SM4	White seam mastic on new paper-wrapped fiberglass insulation	No	Boiler Room 112B	47, 48	NAD	---
CM1	Tan carpet mastic	No	Suite 100 Offices, Office 107B, Office 107C, Office 110, Fitness Center 201 and 202	50, 51	NAD	---
CBM3	Gray/cream mastic on 4" cove base	No	Suite 100 Offices	52, 53	NAD	---
CT2	2' x 4' white ceiling tile with irregular dots, holes, and deep ½" fissures	Yes	Office 110, Stair 1	54, 56	NAD	---
PL2	Light tan rough plaster wall	Yes	Wall between Corridor 191 and Corridor 117A	57, 58, 59	NAD	---
CT3	2' x 4' white ceiling tile with dots and holes in swirl pattern	Yes	Lobby 203	66, 67	NAD	---



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Material Code	Material Description	Friable (Yes/No)	Material Location	Sample Numbers	ACM (Yes/No)	Approx. Quantity*
GT1	White grout on 4" beige ceramic tile wall	No	First floor locker rooms and Restrooms	60, 61	NAD	---
AD1	Tan adhesive on 4" beige ceramic tile wall	No	First floor locker rooms and restrooms	62, 63	NAD	---
GT2	Dark gray grout on 1" light brown ceramic	No	First floor locker rooms and restrooms	64, 104	NAD	---
AD2	Tan adhesive on 1" light brown ceramic floors	No	First floor locker rooms and restrooms	65, 105	NAD	---
SM5	Light beige seam mastic on paper-wrapped fiberglass insulation	No	Basement Stair 3, Pump and Filter B01	68, 69	2% Chrysotile	650 LF
CT4	2' x 2' white ceiling tile with dense dots and very small gouges	Yes	Pool 115	70, 71	NAD	---
CT5	2' x 2' white ceiling tile with irregular dots, holes, and deep 1/2" fissures	Yes	Fitness Center 201 and 202	72, 73	NAD	---
SM6	Cream seam mastic on water lines to fitness room AHU	No	Fitness Center 201	74, 75	NAD	---
DJ3	Drywall and joint compound	Yes	Fitness Center 201 and 202	76, 77	NAD	---
CBM4	Dark tan mastic patch on 4" cove base	No	Fitness Center 201	78, 79	NAD	---
FS1	Brick red fire stop	No	Gymnasium 200, Electrical Room 113A, Corridor 191	80, 81	NAD	---
TP1	Brown corrugated cementitious panel	No	Exterior	82, 83	10% Chrysotile	10,500 SF
AD3	Brown adhesive at fiberglass batts on interior of cementitious panels	No	Lobby 203	84, 85	NAD	---
FT3	12" x 12" beige floor tile with tan mottle	No	Storage 200A	86, 87	NAD	---
FM3	Tan mastic on FT3	No	Storage 200A	88, 89	NAD	---
DJ4	1" white fire-rated drywall	Yes	Storage 200A	90, 91	NAD	---



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Material Code	Material Description	Friable (Yes/No)	Material Location	Sample Numbers	ACM (Yes/No)	Approx. Quantity*
AD4	Beige adhesive on 1" brown ceramic floor	No	Pool 115, second floor restrooms	92, 94	NAD	
GT3	Gray grout on 1" brown ceramic floor	No	Pool 115, second floor restrooms	93, 95	NAD	---
CK4	White caulk at CMU/concrete ceiling	No	1 st floor locker rooms, Suite 100 Offices, Racquetball Entry 112	96, 97	NAD	---
CK5	Gray caulk at CMU/concrete ceiling	No	1 st floor locker rooms, Suite 100 Offices, Training Room 113	98, 99	NAD	---
AD5	Brown adhesive on 4" beige ceramic cove base	No	Locker rooms and restrooms	100, 101	NAD	---
GT4	Gray grout on 4" beige ceramic cove base	No	Locker rooms and restrooms	102, 103	NAD	---
CK6	Off-white caulk at CMU/concrete ceiling	No	Men's Locker Room 117B	106, 107	2% Chrysotile	212 LF
PL3	Tan plaster with white skim coat	Yes	Pool 115 Bulkhead	108, 109, 110	NAD	---
AG1	White aggregate packing	No	Pool 115 Exterior Wall	111, 112	NAD	---
RA1	Roof asphalt	No	Roof	113, 114	NAD	---
AD6	Tan adhesive on insulating blankets	No	Roof at AHU	115, 116	NAD	---
CK7	Gray caulk	No	Roof Exhaust Vents	117, 118	NAD	---
FS1	Silver painted black flashing sealant	No	Roof	119, 120	NAD	---
RF1	Asphalt and gray aggregate flashing	No	Roof	121, 122	NAD	---
STM1	Black stair tread mastic	No	Stair 1	123, 124	5% Chrysotile	160 SF
GK1	Pipe gaskets	No	Mechanical Room 101A	Not Accessible	Assumed ACM	70 EA
DM4	Dark brown seam mastic on bare metal duct	No	Second floor restrooms	Not Accessible	Assumed ACM	75 LF



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Material Code	Material Description	Friable (Yes/No)	Material Location	Sample Numbers	ACM (Yes/No)	Approx. Quantity*
FD1	Fire doors	No	All UL listed doors	Not Sampled	Assumed ACM	All UL Listed Doors
ACM = Asbestos-Containing Material SF = square feet LF = linear feet EA = each Bold = Identified as ACM. * Note: The quantity estimates provided are for information purposes only.						

APPENDIX B

ASBESTOS BULK SAMPLE ANALYSIS REPORT

CERTIFICATE OF ANALYSIS

Chain of Custody: 614205
Client: Applied Environmental, Inc.
Address: 200 Fairbrook Drive
 Suite 201
 Herndon, VA 20170
Attention: Bradley Pearson

Job Name: Falcon Hall
Job Location: Montgomery College-Takoma Park
Job Number: 46-19-0095
P.O. Number: Not Provided

Date Submitted: 04/15/2019
Date Analyzed: 04/22/2019
Report Date: 04/22/2019
Date Sampled: 04/10/2019 - 04/11/2019
Person Submitting: Bradley Pearson

Summary of Polarized Light Microscopy

AMA Sample Number	Client Sample Number	Total Asbestos	Chrysotile Percent	Amosite Percent	Crocidolite Percent	Other Asbestos Percent	Mineral Wool Percent	Fiberglass Percent	Organic Percent	Synthetic Percent	Other Percent	Particulate Percent	Sample Type	Sample Color	Homogeneity	Analyst ID	Comments
614205-1	BP190410-01	NAD	--	--	--	--	--	--	10	--	--	90	DW	Multi	Layered	SW	
614205-2	BP190410-02	NAD	--	--	--	--	--	TR	10	--	--	90	DW	Multi	Layered	SW	
614205-3	BP190410-03	2	2	--	--	--	--	--	--	--	--	98	MS	Brown	Homogeneous	SW	
614205-4	BP190410-04	--	--	--	--	--	--	--	--	--	--	--	--	--	--	SW	Sample not analyzed. Positive stop.
614205-5	BP190410-05	NAD	--	--	--	--	--	--	--	--	--	100	MS	Cream	Homogeneous	SW	
614205-6	BP190410-06	NAD	--	--	--	--	--	--	--	--	--	100	MS	Cream	Homogeneous	SW	
614205-7	BP190410-07	NAD	--	--	--	--	30	--	30	--	--	40	CT	Multi	Layered	SW	
614205-8	BP190410-08	NAD	--	--	--	--	30	--	30	--	--	40	CT	Multi	Layered	SW	
614205-9	BP190410-09	NAD	--	--	--	--	--	--	--	--	--	100	FT	Multi	Homogeneous	SW	
614205-10	BP190410-10	NAD	--	--	--	--	--	--	--	--	--	100	FT	Multi	Homogeneous	SW	
614205-11	BP190410-11	3	3	--	--	--	--	--	--	TR	--	97	MS	Black	Homogeneous	SW	
614205-12	BP190410-12	--	--	--	--	--	--	--	--	--	--	--	--	--	--	SW	Sample not analyzed. Positive stop.
614205-13	BP190410-13	NAD	--	--	--	--	--	--	10	--	--	90	SSL	Tan	Homogeneous	SW	
614205-14	BP190410-14	NAD	--	--	--	--	--	--	TR	--	--	100	Ads	White	Homogeneous	SW	
614205-15	BP190410-15	NAD	--	--	--	--	--	TR	TR	--	--	100	MS	Tan	Homogeneous	SW	
614205-16	BP190410-16	NAD	--	--	--	--	--	--	--	--	--	100	MS	Brown	Homogeneous	SW	
614205-17	BP190410-17	NAD	--	--	--	--	--	--	TR	TR	--	100	MS	Tan	Homogeneous	SW	
614205-18	BP190410-18	NAD	--	--	--	--	--	--	--	--	TR	100	MS	Brown	Homogeneous	SW	

CERTIFICATE OF ANALYSIS

Chain of Custody: 614205
Client: Applied Environmental, Inc.
Address: 200 Fairbrook Drive
Suite 201
Herndon, VA 20170
Attention: Bradley Pearson

Job Name: Falcon Hall
Job Location: Montgomery College-Takoma Park
Job Number: 46-19-0095
P.O. Number: Not Provided

Date Submitted: 04/15/2019
Date Analyzed: 04/22/2019
Report Date: 04/22/2019
Date Sampled: 04/10/2019 - 04/11/2019
Person Submitting: Bradley Pearson

Summary of Polarized Light Microscopy

AMA Sample Number	Client Sample Number	Total Asbestos	Chrysotile Percent	Amosite Percent	Crocidolite Percent	Other Asbestos Percent	Mineral Wool Percent	Fiberglass Percent	Organic Percent	Synthetic Percent	Other Percent	Particulate Percent	Sample Type	Sample Color	Homogeneity	Analyst ID	Comments
614205-19	BP190410-19	NAD	--	--	--	--	--	--	--	--	--	100	WPL	Brown	Homogeneous	SW	
614205-19A	BP190410-19	NAD	--	--	--	--	--	--	5	--	--	95	CPL	White	Homogeneous	SW	
614205-20	BP190410-20	NAD	--	--	--	--	--	--	--	--	--	100	WPL	Brown	Homogeneous	SW	
614205-20A	BP190410-20	NAD	--	--	--	--	--	--	5	--	--	95	CPL	White	Homogeneous	SW	
614205-21	BP190410-21	NAD	--	--	--	--	--	--	--	--	--	100	WPL	Brown	Homogeneous	SW	
614205-21A	BP190410-21	NAD	--	--	--	--	--	--	5	--	--	95	CPL	White	Homogeneous	SW	
614205-22	BP190410-22	NAD	--	--	--	--	--	--	--	--	--	100	WPL	Brown	Homogeneous	SW	
614205-22A	BP190410-22	NAD	--	--	--	--	--	--	5	--	--	95	CPL	White	Homogeneous	SW	
614205-23	BP190410-23	NAD	--	--	--	--	--	--	--	--	--	100	WPL	Brown	Homogeneous	SW	
614205-23A	BP190410-23	NAD	--	--	--	--	--	--	5	--	--	95	CPL	White	Homogeneous	SW	
614205-24	BP190410-24	2	2	--	--	--	--	--	--	--	--	98	CK	Multi	Homogeneous	SW	
614205-25	BP190410-25	--	--	--	--	--	--	--	--	--	--	--	--	--	--	SW	Sample not analyzed. Positive stop.
614205-26	BP190410-26	NAD	--	--	--	--	--	--	--	--	--	100	CK	Off-White	Homogeneous	SW	
614205-27	BP190410-27	NAD	--	--	--	--	--	--	10	--	TR	90	CK	White	Homogeneous	SW	
614205-28	BP190410-28	NAD	--	--	--	--	--	--	10	--	TR	90	CK	White	Homogeneous	SW	
614205-29	BP190410-29	NAD	--	--	--	--	--	--	TR	--	2	98	SSL	White	Homogeneous	SW	
614205-30	BP190410-30	NAD	--	--	--	--	--	--	TR	--	2	98	SSL	White	Homogeneous	SW	
614205-31	BP190410-31	NAD	--	--	--	--	--	--	TR	--	TR	100	SSL	Red	Homogeneous	SW	
614205-32	BP190410-32	NAD	--	--	--	--	--	TR	TR	--	--	100	SSL	White	Homogeneous	SW	
614205-33	BP190410-33	NAD	--	--	--	--	--	--	10	--	--	90	Ads	White	Homogeneous	SW	

CERTIFICATE OF ANALYSIS

Chain of Custody: 614205
Client: Applied Environmental, Inc.
Address: 200 Fairbrook Drive
Suite 201
Herndon, VA 20170
Attention: Bradley Pearson

Job Name: Falcon Hall
Job Location: Montgomery College-Takoma Park
Job Number: 46-19-0095
P.O. Number: Not Provided

Date Submitted: 04/15/2019
Date Analyzed: 04/22/2019
Report Date: 04/22/2019
Date Sampled: 04/10/2019 - 04/11/2019
Person Submitting: Bradley Pearson

Summary of Polarized Light Microscopy

AMA Sample Number	Client Sample Number	Total Asbestos	Chrysotile Percent	Amosite Percent	Crocidolite Percent	Other Asbestos Percent	Mineral Wool Percent	Fiberglass Percent	Organic Percent	Synthetic Percent	Other Percent	Particulate Percent	Sample Type	Sample Color	Homogeneity	Analyst ID	Comments
614205-34	BP190410-34	2	2	--	--	--	--	--	--	--	--	98	FT	Multi	Homogeneous	SW	
614205-35	BP190410-35	5	5	--	--	--	--	--	--	--	--	95	MS	Black	Homogeneous	SW	
614205-36	BP190410-36	NAD	--	--	--	--	--	--	30	--	--	70	SC	White	Homogeneous	SW	
614205-37	BP190410-37	NAD	--	--	--	--	--	--	30	--	--	70	SC	White	Homogeneous	SW	
614205-38	BP190410-38	2	2	--	--	--	--	--	--	--	--	98	FT	Multi	Homogeneous	SW	
614205-39	BP190410-39	3	3	--	--	--	--	--	--	--	--	97	MS	Black	Homogeneous	SW	
614205-40	BP190410-40	NAD	--	--	--	--	--	--	--	TR	--	10	MS	Gray	Homogeneous	SW	
614205-41	BP190410-41	NAD	--	--	--	--	--	--	30	--	--	70	SLT	Tan	Homogeneous	SW	
614205-42	BP190410-42	NAD	--	--	--	--	--	--	--	TR	--	100	MS	White	Homogeneous	SW	
614205-43	BP190410-43	NAD	--	--	--	--	--	--	--	TR	--	100	MS	White	Homogeneous	SW	
614205-44	BP190410-44	NAD	--	--	--	--	--	--	--	TR	--	100	MS	Gray	Homogeneous	SW	
614205-45	BP190410-45	NAD	--	--	--	--	--	--	--	--	--	100	MS	Tan	Homogeneous	SW	
614205-46	BP190410-46	NAD	--	--	--	--	--	--	--	--	--	100	MS	Tan	Homogeneous	SW	
614205-47	BP190410-47	NAD	--	--	--	--	--	TR	TR	--	--	100	SLT	White	Homogeneous	SW	
614205-48	BP190410-48	NAD	--	--	--	--	--	TR	TR	--	--	100	SLT	White	Homogeneous	SW	
614205-49	BP190410-49	NAD	--	--	--	--	--	--	10	--	--	90	DW	Multi	Layered	SW	
614205-49A	BP190410-49	NAD	--	--	--	--	--	--	--	--	--	100	JC	White	Homogeneous	SW	
614205-50	BP190410-50	NAD	--	--	--	--	--	TR	--	--	--	100	CM	Tan	Homogeneous	SW	
614205-51	BP190410-51	NAD	--	--	--	--	--	--	--	--	--	100	CM	Tan	Homogeneous	LBP	
614205-52	BP190410-52	NAD	--	--	--	--	--	--	--	--	--	100	MS	Cream	Homogeneous	LBP	
614205-53	BP190410-53	NAD	--	--	--	--	--	--	--	--	--	100	MS	Cream	Homogeneous	LBP	
614205-54	BP190410-54	NAD	--	--	--	--	30	--	30	--	--	40	CT	Multi	Layered	LBP	

CERTIFICATE OF ANALYSIS

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 Herndon, VA 20170
Attention: Bradley Pearson

Job Name: Falcon Hall
Job Location: Montgomery College-Takoma Park
Job Number: 46-19-0095
P.O. Number: Not Provided

Date Submitted: 04/15/2019
Date Analyzed: 04/22/2019
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Person Submitting: Bradley Pearson

Summary of Polarized Light Microscopy

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614205-55	BP190410-55	NAD	--	--	--	--	--	--	10	--	--	90	DW	Multi	Layered	LBP	
614205-55A	BP190410-55	NAD	--	--	--	--	--	--	--	--	--	100	JC	White	Homogeneous	LBP	
614205-56	BP190410-56	NAD	--	--	--	--	30	--	30	--	--	40	CT	Multi	Layered	LBP	
614205-57	BP190410-57	NAD	--	--	--	--	--	--	--	--	--	100	WPL	Tan	Homogeneous	LBP	
614205-58	BP190410-58	NAD	--	--	--	--	--	--	--	--	--	100	WPL	Tan	Homogeneous	LBP	
614205-59	BP190410-59	NAD	--	--	--	--	--	--	--	--	--	100	WPL	Tan	Homogeneous	LBP	
614205-60	BP190410-60	NAD	--	--	--	--	--	--	--	--	--	100	Grout	White	Homogeneous	LBP	
614205-61	BP190410-61	NAD	--	--	--	--	--	--	--	--	--	100	Grout	White	Homogeneous	LBP	
614205-62	BP190410-62	NAD	--	--	--	--	--	--	--	--	--	100	Ads	Tan	Homogeneous	LBP	
614205-63	BP190410-63	NAD	--	--	--	--	--	--	--	--	--	100	Ads	Tan	Homogeneous	LBP	
614205-64	BP190410-64	NAD	--	--	--	--	--	--	--	--	--	100	Grout	Gray	Homogeneous	LBP	
614205-65	BP190410-65	NAD	--	--	--	--	--	--	--	--	--	100	Ads	Tan	Homogeneous	LBP	
614205-66	BP190410-66	NAD	--	--	--	--	30	--	30	--	--	40	CT	Multi	Layered	LBP	
614205-67	BP190410-67	NAD	--	--	--	--	30	--	30	--	--	40	CT	Multi	Layered	LBP	
614205-68	BP190410-68	2	2	--	--	--	--	TR	TR	--	--	98	SSL	White	Homogeneous	LBP	
614205-69	BP190410-69	--	--	--	--	--	--	--	--	--	--	--	--	--	--	LBP	Sample not analyzed. Positive Stop.
614205-70	BP190410-70	NAD	--	--	--	--	60	--	--	--	--	40	CT	White	Homogeneous	LBP	
614205-71	BP190410-71	NAD	--	--	--	--	60	--	--	--	--	40	CT	Gray	Homogeneous	SW	
614205-72	BP190410-72	NAD	--	--	--	--	30	--	30	--	--	40	CT	Multi	Layered	SW	
614205-73	BP190410-73	NAD	--	--	--	--	30	--	30	--	--	40	CT	Multi	Layered	SW	

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Job Location: Montgomery College-Takoma Park
Job Number: 46-19-0095
P.O. Number: Not Provided

Date Submitted: 04/15/2019
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Summary of Polarized Light Microscopy

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614205-74	BP190410-74	NAD	--	--	--	--	--	--	--	--	2	98	SLT	Cream	Homogeneous	SW	
614205-75	BP190410-75	NAD	--	--	--	--	--	--	--	--	2	98	SLT	Cream	Homogeneous	SW	
614205-76	BP190410-76	NAD	--	--	--	--	--	--	10	--	--	90	DW	Multi	Layered	SW	
614205-76A	BP190410-76	NAD	--	--	--	--	--	--	--	--	--	100	JC	White	Homogeneous	SW	
614205-77	BP190410-77	NAD	--	--	--	--	--	--	10	--	--	90	DW	Multi	Layered	SW	
614205-77A	BP190410-77	NAD	--	--	--	--	--	--	--	--	--	100	JC	White	Homogeneous	SW	
614205-78	BP190410-78	NAD	--	--	--	--	--	--	--	--	--	100	MS	Tan	Homogeneous	SW	
614205-79	BP190410-79	NAD	--	--	--	--	--	--	--	--	--	100	MS	Tan	Homogeneous	SW	
614205-80	BP190410-80	NAD	--	--	--	--	--	--	--	--	--	100	Brick	Red	Homogeneous	SW	
614205-81	BP190410-81	NAD	--	--	--	--	--	--	--	--	--	100	Brick	Red	Homogeneous	SW	
614205-82	BP190410-82	10	10	--	--	--	--	--	--	--	--	90	CPN	Brown	Homogeneous	SW	
614205-83	BP190410-83	10	10	--	--	--	--	--	--	--	--	90	CPN	Brown	Homogeneous	SW	
614205-84	BP190410-84	NAD	--	--	--	--	--	--	--	--	--	100	Ads	Brown	Homogeneous	SW	
614205-85	BP190410-85	NAD	--	--	--	--	--	--	--	--	--	100	MS	Brown	Homogeneous	SW	
614205-86	BP190410-86	NAD	--	--	--	--	--	--	--	--	--	100	FT	Multi	Homogeneous	SW	
614205-87	BP190410-87	NAD	--	--	--	--	--	--	--	--	--	100	FT	Multi	Homogeneous	SW	
614205-88	BP190410-88	NAD	--	--	--	--	--	--	TR	--	--	100	MS	Tan	Homogeneous	SW	
614205-89	BP190410-89	NAD	--	--	--	--	--	--	TR	--	--	100	MS	Red	Homogeneous	SW	
614205-90	BP190410-90	NAD	--	--	--	--	--	--	10	--	--	90	DW	Multi	Layered	SW	
614205-91	BP190410-91	NAD	--	--	--	--	--	TR	10	--	--	90	DW	Multi	Layered	LBP	
614205-92	BP190410-92	NAD	--	--	--	--	--	--	--	--	--	100	Ads	Beige	Homogeneous	LBP	
614205-93	BP190410-93	NAD	--	--	--	--	--	--	--	--	--	100	Grout	Brown	Homogeneous	LBP	

CERTIFICATE OF ANALYSIS

Chain of Custody: 614205
Client: Applied Environmental, Inc.
Address: 200 Fairbrook Drive
Suite 201
Herndon, VA 20170
Attention: Bradley Pearson

Job Name: Falcon Hall
Job Location: Montgomery College-Takoma Park
Job Number: 46-19-0095
P.O. Number: Not Provided

Date Submitted: 04/15/2019
Date Analyzed: 04/22/2019
Report Date: 04/22/2019
Date Sampled: 04/10/2019 - 04/11/2019
Person Submitting: Bradley Pearson

Summary of Polarized Light Microscopy

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614205-94	BP190410-94	NAD	--	--	--	--	--	--	--	--	--	100	Ads	Beige	Homogeneous	LBP	
614205-95	BP190410-95	NAD	--	--	--	--	--	--	--	--	--	100	Grout	Brown	Homogeneous	LBP	
614205-96	BP190410-96	NAD	--	--	--	--	--	--	--	--	--	100	CK	White	Homogeneous	LBP	
614205-97	BP190410-97	NAD	--	--	--	--	--	--	--	--	--	100	CK	White	Homogeneous	LBP	
614205-98	BP190410-98	NAD	--	--	--	--	--	--	--	--	--	100	CK	Gray	Homogeneous	LBP	
614205-99	BP190410-99	NAD	--	--	--	--	--	--	--	--	--	100	CK	Gray	Homogeneous	LBP	
614205-100	BP190410-100	NAD	--	--	--	--	--	--	--	--	--	100	Ads	Brown	Homogeneous	LBP	
614205-101	BP190410-101	NAD	--	--	--	--	--	--	--	--	--	100	Ads	Brown	Homogeneous	LBP	
614205-102	BP190410-102	NAD	--	--	--	--	--	--	--	--	--	100	Grout	Gray	Homogeneous	LBP	
614205-103	BP190410-103	NAD	--	--	--	--	--	--	--	--	--	100	Grout	Gray	Homogeneous	LBP	
614205-104	BP190410-104	NAD	--	--	--	--	--	--	--	--	--	100	Grout	Gray	Homogeneous	LBP	
614205-105	BP190410-105	NAD	--	--	--	--	--	--	--	--	--	100	Ads	Tan	Homogeneous	LBP	
614205-106	BP190410-106	2	2	--	--	--	--	--	--	--	--	98	CK	Off-White	Homogeneous	LBP	
614205-107	BP190410-107	--	--	--	--	--	--	--	--	--	--	--	--	--	--	LBP	Sample not analyzed. Positive Stop.
614205-108	BP190410-108	NAD	--	--	--	--	--	--	--	--	--	100	SKC	White	Homogeneous	LBP	
614205-109	BP190410-109	NAD	--	--	--	--	--	--	--	--	--	100	SKC	White	Homogeneous	LBP	
614205-110	BP190410-110	NAD	--	--	--	--	--	--	--	--	--	100	SKC	White	Homogeneous	LBP	
614205-111	BP190410-111	NAD	--	--	--	--	--	--	--	--	--	100	CC	Gray	Homogeneous	LBP	
614205-112	BP190410-112	NAD	--	--	--	--	--	--	--	--	--	100	CC	Gray	Homogeneous	LBP	
614205-113	BP190410-113	NAD	--	--	--	--	--	--	--	--	--	100	Asph	Black	Homogeneous	LBP	

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614205-114	BP190410-114	NAD	--	--	--	--	--	--	--	--	--	100	Asph	Black	Homogeneous	LBP	
614205-115	BP190410-115	NAD	--	--	--	--	--	--	TR	--	--	100	Ads	Tan	Homogeneous	LBP	
614205-116	BP190410-116	NAD	--	--	--	--	--	--	TR	--	--	100	Ads	Tan	Homogeneous	LBP	
614205-117	BP190410-117	NAD	--	--	--	--	--	--	--	--	TR	100	CK	Gray	Homogeneous	LBP	
614205-118	BP190410-118	NAD	--	--	--	--	--	--	--	--	TR	100	CK	Gray	Homogeneous	LBP	
614205-119	BP190410-119	NAD	--	--	--	--	--	--	--	--	--	100	Paint	Silver	Homogeneous	LBP	
614205-120	BP190410-120	NAD	--	--	--	--	--	--	--	--	--	100	Paint	Silver	Homogeneous	LBP	
614205-121	BP190410-121	NAD	--	--	--	--	--	TR	--	--	--	100	Asph	Black	Homogeneous	LBP	
614205-122	BP190410-122	NAD	--	--	--	--	--	TR	--	--	--	100	Asph	Black	Homogeneous	LBP	
614205-123	BP190410-123	5	5	--	--	--	--	--	--	--	--	95	MS	Black	Homogeneous	LBP	
614205-124	BP190410-124	--	--	--	--	--	--	--	--	--	--	--	--	--	--	LBP	Sample not analyzed. Positive Stop.
614205-125	BP190410-125	NAD	--	--	--	--	--	--	--	--	--	100	CK	Off-White	Homogeneous	LBP	

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The following footnotes only apply to those samples which the total asbestos result is flagged with a note number.

¹ TEM RECOMMENDATION - Please note, due to resolution limitations with optical microscopy and/or interference from matrix components of this sample, results which are reported via PLM as negative or trace (<1%) for asbestos may contain a significant quantity of asbestos. It is recommended that the additional analytical technique of TEM be used to check for asbestos fibers below the resolution limits of optical microscopy.

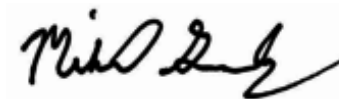
² MATRIX REDUCTION RECOMMENDATION - Please note, due to interference from the matrix components of this sample, results which are reported via PLM as negative or trace (<1%) for asbestos may contain a significant quantity of asbestos which is obscured from view. It is recommended that the additional preparation technique of gravimetric reduction be performed on this sample to minimize the obscuring effects of matrix components, followed by reanalysis by PLM and/or TEM.

Analysis Method - EPA/600/R-93/116 dated July 1993

NAD = "No Asbestos Detected" TR = "Trace equals less than 1% of this component"

Uncertainty: For samples containing asbestos in range of 1-10% the CV is 0.43, 11-35% CV=0.55, >35 CV=0.23. All results are to be considered preliminary and subject to change unless signed by the Technical Director or Deputy.

Analyst(s): Lom Butruk, Surat Watson



Technical Director Michael Greenberg

This report applies only to the sample, or samples, investigated and is not necessarily indicative of the quality or condition of apparently identical or similar products. As a mutual protection to clients, the public, and these Laboratories, this report is submitted and accepted for the exclusive use of the client to whom it is addressed and upon the condition that it is not to be used, in whole or in part, in any advertising or publicity matter without prior written authorization from us. Sample types, locations, and collection protocols are based upon the information provided by the persons submitting them and, unless collected by personnel of these Laboratories, we expressly disclaim any knowledge and liability for the accuracy and completeness of this information. Residual sample material will be discarded in accordance with the appropriate regulatory guidelines, unless otherwise requested by the client. NVLAP accreditation applies only to polarized light microscopy of bulk samples and transmission electron microscopy of AHERA air samples. This report must not be used to claim, and does not imply product certification, approval, or endorsement by NVLAP or any agency of the Federal Government. All rights reserved. AMA Analytical Services, Inc.



AMA Analytical Services, Inc.

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4475 Forbes Blvd. • Lanham, MD 20706
(301) 459-2640 • (800) 346-0961 • Fax (301) 459-2643

CHAIN OF CUSTODY

(Please Refer To This Number For Inquires)

614205

Mailing/Billing Information:

- Client Name: Applied Environmental, Inc.
- Address 1: 200 Fairbrook Drive
- Address 2: Suite 201
- Address 3: Herndon, Virginia 20170
- Phone #: 703-648-0822 Fax #: 703-648-0575

Submittal Information:

- Job Name: Falcon Hall
- Job Location: Montgomery College - Takoma Park
- Job #: 46-19-0095 P.O. #: _____
- Contact Person: Bradley Pearson @ phone # 703-648-0822
- Submitted by: Bradley Pearson Signature:

Reporting Information (Results will be provided as soon as technically feasible):

AFTER HOURS (must be pre-scheduled) <input type="checkbox"/> Immediate Date Due: _____ <input type="checkbox"/> 24 Hours Time Due: _____ Comments: _____	NORMAL BUSINESS HOURS <input type="checkbox"/> Immediate <input type="checkbox"/> Next Day <input type="checkbox"/> 2 Day <input checked="" type="checkbox"/> 3 Day <input checked="" type="checkbox"/> 5 Day + Date Due: <u>COS 4/19/19</u>	<input type="checkbox"/> Results Required By Noon (Every Attempt Will Be Made to Accomodate) <input checked="" type="checkbox"/> Include COC/Field Data Sheets with Report <input checked="" type="checkbox"/> Email: <u>bpearson@appenv.com @ osharif@appenv.com</u> <input type="checkbox"/> Fax: _____ <input type="checkbox"/> Verbals: _____
--	---	---

Asbestos Analysis

- PCM Air - Please Indicate Filter Type:
- NIOSH 7400 (QTY)
 - Fiberglass (QTY)
- TEM Air - Please Indicate Filter Type:
- AHERA (QTY)
 - NIOSH 7402 (QTY)
 - Other (specify _____) (QTY)
- PLM Bulk
- EPA 600 - Visual Estimate 125 (QTY)
 - EPA Point Count (QTY)
 - NY State Friable 198.1 (QTY)
 - Grav. Reduction ELAP 198.6 (QTY)
 - Other (specify _____) (QTY)

TEM Bulk

- ELAP 198.4/Chatfield (QTY)
- NY State PLM/TEM (QTY)
- Residual Ash (QTY)

TEM Dust

- Qual. (pres/abs) Vacuum/Dust (QTY)
- Quan. (s/area) Vacuum D5755-95 (QTY)
- Quan. (s/area) Dust D6480-99 (QTY)

TEM Water

- Qual. (pres/abs) (QTY)
- ELAP 198.2/EPA 100.2 (QTY)
- EPA 100.1 (QTY)

All samples received in good condition unless otherwise noted. (TEM Water samples _____ °C)

Metals Analysis

- Pb Paint Chip (QTY)
- Pb Dust Wipe (wipe type _____) (QTY)
- Pb Air (QTY)
- Pb Soil/Solid (QTY)
- Pb TCLP (QTY)
- Drinking Water Pb (QTY) Cu (QTY) As (QTY)
- Waste Water Pb (QTY) Cu (QTY) As (QTY)
- Pb Furnace (Media _____) (QTY)

Fungal Analysis

- Collection Apparatus for Spore Traps/Air Samples: _____
Collection Media _____
- Spore-Trap (QTY)
 - Surface Swab (QTY)
 - Surface Tape (QTY)
 - Other (Specify _____) (QTY)
 - Surface Vacuum Dust (QTY)
 - Culturable ID Genus (Media _____) (QTY)
 - Culturable ID Species (Media _____) (QTY)

MISC

- Vermiculite
- Asbestos Soil PLM (Qual) PLM (Quan) PLM/TEM (Qual) PLM/TEM (Quan)

CLIENT ID NUMBER	SAMPLE INFORMATION				ANALYSIS											CLIENT CONTACT					
	SAMPLE LOCATION/ IDENTIFICATION	DATE	VOLUME (LITERS)	WIPE AREA	TEM	PCM	PLM	LEAD	MOLD	AIR	BULK	DUST	MATRIX	WATER AND OTHER	SPORE TRAP	TAPE	SWAB	(LABORATORY STAFF ONLY)			
BP190410-01 to -125	See attached for info ** POSITIVE STOP **	4/10 to 4/11/2019					x												Date/Time:	Contact:	By:
																			Date/Time:	Contact:	By:
																			Date/Time:	Contact:	By:

LABORATORY STAFF ONLY: (CUSTODY)

- Date/Time RCVD: 4/15/19 @ 930 Via: FedEx By (Print): [Signature] Sign: [Signature]
- Date/Time Analyzed: _____ @ _____ By (Print): _____ Sign: _____
- Results Reported To: _____ Via: _____ Date: _____ / _____ / _____ Time: _____ Initials: _____
- Comments: _____

Material Code	Material Description	Sample Location	Sample Number BP190410-
DJ1	Drywall with light brown paper and no joint compound	111	1
DJ1	Drywall with light brown paper and no joint compound	111	2
DM1	Peanut butter brown mastic on metal duct at supply diffusers	111	3
DM1	Peanut butter brown mastic on metal duct at supply diffusers	111	4
DM2	Cream mastic on metal duct at supply diffusers	111	5
DM2	Cream mastic on metal duct at supply diffusers	111	6
CT1	2' x 4' white ceiling tile with dense dots and very small gouges	111	7
CT1	2' x 4' white ceiling tile with dense dots and very small gouges	191	8
FT1	12" x 12" off-white floor tile with black and gray streaks	112	9
FT1	12" x 12" off-white floor tile with black and gray streaks	192	10
FM1	Mastic on FT1	112	11
FM1	Mastic on FT1	192	12
SM1	Dark tan, shiny seam mastic on paper-wrapped fiberglass pipe insulation	191	13
DT1	White adhesive duct tape	191	14
CBM1	Tan mastic on 4" cove base	192	15
CBM2	Brown residual mastic on 4" cove base	192	16
CBM1	Tan mastic on 4" cove base	112	17
CBM2	Brown residual mastic on 4" cove base	192	18
PL1	Brown plaster walls and ceiling	B02	19
PL1	Brown plaster walls and ceiling	B02	20
PL1	Brown plaster walls and ceiling	B02	21
PL1	Brown plaster walls and ceiling	B02	22
PL1	Brown plaster walls and ceiling	B02	23
CK1	Yellow/tan caulk at entry door to racquetball court	B02	24
CK1	Yellow/tan caulk at entry door to racquetball court	B02	25
CK2	Off-white caulk at interior doors and windows	112	26
CK3	Exterior door caulk	Day Tank Room	27
CK3	Exterior door caulk	Day Tank Room	28
SM2	White seam mastic on old paper-wrapped fiberglass pipe insulation	101B	29

Material Code	Material Description	Sample Location	Sample Number BP190410-
SM2	White seam mastic on old paper-wrapped fiberglass pipe insulation	101B	30
SM3	Cream seam mastic on new paper-wrapped fiberglass pipe insulation	101B	31
SM3	Cream seam mastic on new paper-wrapped fiberglass pipe insulation	101B	32
DT1	White adhesive duct tape	101A	33
FT2	12" x 12" tan floor tile with cream and brown streaks	111	34
FM2	Black mastic on FT2	111	35
SU1	White sink undercoating	111A	36
SU1	White sink undercoating	111B	37
FT2	12" x 12" tan floor tile with cream and brown streaks	109	38
FM2	Black mastic on FT2	109	39
DM3	Gray mastic on bare metal duct	118	40
SM1	Dark tan, shiny seam mastic on paper-wrapped fiberglass pipe insulation	191	41
DM4	White mastic on bare metal duct	191	42
DM4	White mastic on bare metal duct	191	43
DM3	Gray mastic on bare metal duct	118	44
FM3	Tan mastic on FT2	Stair 2	45
FM3	Tan mastic on FT2	Stair 2	46
SM4	White seam mastic on new paper-wrapped fiberglass pipe insulation	112B	47
SM4	White seam mastic on new paper-wrapped fiberglass pipe insulation	112B	48
DJ2	Drywall with brown paper and white joint compound	111	49
CM1	Tan carpet mastic	106	50
CM1	Tan carpet mastic	105	51
CBM3	Gray/cream mastic on 4" cove base	106	52
CBM3	Gray/cream mastic on 4" cove base	104	53
CT2	2' x 4' white ceiling tile with irregular dots, holes and deep 1/2" fissures	110	54
DJ2	Drywall with brown paper and white joint compound	109	55
CT2	2' x 4' white ceiling tile with irregular dots, holes and deep 1/2" fissures	110	56
PL2	Rough light tan plaster wall	191	57
PL2	Rough light tan plaster wall	191	58

Material Code	Material Description	Sample Location	Sample Number BP190410-
PL2	Rough light tan plaster wall	191	59
GT1	White grout on 4" beige ceramic tile wall	117	60
GT1	White grout on 4" beige ceramic tile wall	103A	61
AD1	Tan adhesive on 4" beige ceramic tile wall	117	62
AD1	Tan adhesive on 4" beige ceramic tile wall	103A	63
GT2	Dark gray grout on 1" light brown ceramic floor	117B	64
AD2	Tan adhesive on 1" light brown ceramic floor	117B	65
CT3	2' x 4' white ceiling tile with dots and holes in swirl pattern	203	66
CT3	2' x 4' white ceiling tile with dots and holes in swirl pattern	203	67
SM5	Light beige seam mastic on paper wrapped fiberglass pipe insulation	Stair 3 Corridor	68
SM5	Light beige seam mastic on paper wrapped fiberglass pipe insulation	Stair 3 Corridor	69
CT4	2' x 2' white ceiling tile with dense dots and very small gouges	Pool 115	70
CT4	2' x 2' white ceiling tile with dense dots and very small gouges	Pool 115	71
CT5	2' x 2' white ceiling tile with irregular dots, holes and deep 1/2" fissures	201	72
CT5	2' x 2' white ceiling tile with irregular dots, holes and deep 1/2" fissures	201	73
SM6	Cream seam mastic on water lines to fitness room AHU	201	74
SM6	Cream seam mastic on water lines to fitness room AHU	201	75
DJ3	Drywall and joint compound	201	76
DJ3	Drywall and joint compound	201	77
CBM4	Dark tan mastic patch on 4" cove base	201	78
CBM4	Dark tan mastic patch on 4" cove base	201	79
FS1	Brick red fire stop	200	80
FS1	Brick red fire stop	200	81
TP1	Brown corrugated cementitious panel	Exterior	82
TP1	Brown corrugated cementitious panel	Exterior	83
AD3	Brown adhesive at fiberglass batts on cementitious panels	203	84
AD3	Brown adhesive at fiberglass batts on cementitious panels	203	85
FT3	12" x 12" beige floor tile with tan mottle	200A	86

Material Code	Material Description	Sample Location	Sample Number BP190410-
FT3	12" x 12" beige floor tile with tan mottle	200A	87
FM4	Tan mastic on FT3	200A	88
FM4	Tan mastic on FT3	200A	89
DJ4	1" white fire rated drywall	200A	90
DJ4	1" white fire rated drywall	200A	91
AD4	Beige adhesive on 1" brown ceramic floor	205	92
GT3	Gray grout on 1" brown ceramic floor	205	93
AD4	Beige adhesive on 1" brown ceramic floor	115	94
GT3	Gray grout on 1" brown ceramic floor	115	95
CK4	White caulk at CMU/concrete ceiling	112	96
CK4	White caulk at CMU/concrete ceiling	100	97
CK5	Gray caulk at CMU/concrete ceiling	100	98
CK5	Gray caulk at CMU/concrete ceiling	113	99
AD5	Brown adhesive on 4" beige ceramic cove base	117	100
AD5	Brown adhesive on 4" beige ceramic cove base	117D	101
GT4	Gray grout on 4" beige ceramic cove base	117	102
GT4	Gray grout on 4" beige ceramic cove base	117D	103
GT2	Dark gray grout on 1" light brown ceramic floor	117	104
AD2	Tan adhesive on 1" light brown ceramic floor	117	105
CK6	Off-white caulk at CMU/concrete ceiling	117B	106
CK6	Off-white caulk at CMU/concrete ceiling	117B	107
PL3	Tan rough coat/white skim coat plaster bulkhead	Pool 115	108
PL3	Tan rough coat/white skim coat plaster bulkhead	Pool 115	109
PL3	Tan rough coat/white skim coat plaster bulkhead	Pool 115	110

Material Code	Material Description	Sample Location	Sample Number BP190410-
AG1	White aggregate packing	Pool 115	111
AG1	White aggregate packing	Pool 115	112
RA1	Roof asphalt	Southwest Roof	113
RA1	Roof asphalt	North Roof	114
AD6	Tan adhesive on insulating blankets	Central Roof Landing	115
AD6	Tan adhesive on insulating blankets	Central Roof Landing	116
CK7	Gray caulk on exhaust vents	Southwest Roof	117
CK7	Gray caulk on exhaust vents	Southwest Roof	118
FS1	Silver painted black flashing sealant	Southwest Roof Exhaust Bell Vent	119
FS1	Silver painted black flashing sealant	Southwest Roof Exhaust Bell Vent	120
RF1	Asphalt and gray aggregate flashing	Central Roof Landing Near Door	121
RF1	Asphalt and gray aggregate flashing	Central Roof Landing at Stair	122
STM1	Black stair tread mastic	Stair 1	123
STM1	Black stair tread mastic	Stair 1	124
CK2	Off-white caulk at interior doors and windows	103	125

APPENDIX C

**IDENTIFIED AND ASSUMED ASBESTOS-CONTAINING MATERIALS
ESTIMATED QUANTITIES**



**Identified and Assumed Asbestos-Containing Materials
Estimated Quantities**

**Montgomery College – Takoma Park/Silver Spring Campus
Falcon Hall
7600 Takoma Avenue
Takoma Park, Maryland**

April 10 and 11, 2019

Material Code	Material Description	Friable (Yes/No)	Material Location	Sample Numbers	ACM (Yes/No)	Approx. Quantity*
FM1	Black mastic on FT1	No	Corridor 191, Lobby 192, Lobby 203	11, 12	3% Chrysotile	2,794 SF
FT2	12" x 12" tan floor tile with cream and brown streaks	No	Suite 100 Offices, Office 107B, Office 107C, Office 108, Classroom 109, Office 110, Classroom 111 Entry, Stair 2 (with FM3)	34, 38	2% Chrysotile	1,978 SF
FM2	Black mastic on FT2	No	Suite 100 Offices, Office 107B, Office 107C, Office 108, Classroom 109, Office 110, Classroom 111 Entry	35, 39	3% to 5% Chrysotile	1,928 SF
CK1	Yellow/tan caulk on door to Racquetball Court B02	No	Racquetball Court B02	24, 25	2% Chrysotile	18 LF
SM5	Light beige seam mastic on paper-wrapped fiberglass insulation	No	Basement Stair 3, Pump and Filter B01	68, 69	2% Chrysotile	650 LF
TP1	Brown corrugated cementitious panel	No	Exterior	82, 83	10% Chrysotile	10,500 SF
CK6	Off-white caulk at CMU/concrete ceiling	No	Men's Locker Room 117B	106, 107	2% Chrysotile	212 LF
STM1	Black stair tread mastic	No	Stair 1	123, 124	5% Chrysotile	160 SF
GK1	Pipe gaskets	No	Mechanical Room 101A	Not Accessible	Assumed ACM	70 EA
DM4	Dark brown seam mastic on bare metal duct	No	Second floor restrooms	Not Accessible	Assumed ACM	75 LF
FD1	Fire doors	No	All UL listed doors	Not Sampled	Assumed ACM	All UL Listed Doors

ACM = Asbestos-Containing Material

SF = square feet

LF = linear feet

EA = each

* Note: The quantity estimates provided are for information purposes only.

APPENDIX D

LEAD-CONTAINING SURFACE COATINGS

Lead-Containing Surface Coatings

Index	Time	Site	Floor	Room	Component	Substrate	Color	Condition	PbC	Units
4	2019-04-11 12:09	MC- FALCON HALL	FIRST	112	STAIR	METAL	GREY	FAIR	0.26 ± 0.04	mg / cm ^2
7	2019-04-11 12:14	MC- FALCON HALL	FIRST	112	STAIR	METAL	GREY	FAIR	0.14 ± 0.02	mg / cm ^2
12	2019-04-11 12:21	MC- FALCON HALL	BASEMENT	112	WALL	PLASTER	WHITE	FAIR	0.40 ± 0.30	mg / cm ^2
41	2019-04-11 13:29	MC- FALCON HALL	FIRST	117	SINK	PORCELAIN	WHITE	FAIR	0.17 ± 0.03	mg / cm ^2
42	2019-04-11 13:31	MC- FALCON HALL	FIRST	117	STALL	METAL	GREY	FAIR	1.50 ± 0.10	mg / cm ^2
43	2019-04-11 13:32	MC- FALCON HALL	FIRST	117	STALL	METAL	GREY	FAIR	1.50 ± 0.10	mg / cm ^2
47	2019-04-11 13:39	MC- FALCON HALL	FIRST	117	WALL	CONCRETE	RED	FAIR	0.70 ± 0.20	mg / cm ^2
48	2019-04-11 13:45	MC- FALCON HALL	FIRST	117	LOCKER	METAL	TAN	FAIR	0.80 ± 0.10	mg / cm ^2
49	2019-04-11 13:46	MC- FALCON HALL	FIRST	117	LOCKER	METAL	TAN	FAIR	0.80 ± 0.10	mg / cm ^2
51	2019-04-11 13:52	MC- FALCON HALL	FIRST	112B	FLOOR	CONCRETE	GREY	POOR	0.80 ± 0.30	mg / cm ^2
52	2019-04-11 13:54	MC- FALCON HALL	FIRST	112B	FLOOR	CONCRETE	GREY	POOR	0.90 ± 0.30	mg / cm ^2
56	2019-04-11 14:02	MC- FALCON HALL	FIRST	115	WALL	CONCRETE	TEAL	FAIR	0.80 ± 0.30	mg / cm ^2
57	2019-04-11 14:03	MC- FALCON HALL	FIRST	115	WALL	CONCRETE	TEAL	FAIR	0.90 ± 0.30	mg / cm ^2
58	2019-04-11 14:05	MC- FALCON HALL	FIRST	115	BEAM	METAL	RED	FAIR	3.20 ± 0.10	mg / cm ^2
59	2019-04-11 14:06	MC- FALCON HALL	FIRST	115	BEAM	METAL	RED	FAIR	4.20 ± 0.20	mg / cm ^2
60	2019-04-11 14:09	MC- FALCON HALL	FIRST	115	WALL	CONCRETE	GREEN	FAIR	0.60 ± 0.30	mg / cm ^2
61	2019-04-11 14:11	MC- FALCON HALL	FIRST	115	WALL	CONCRETE	GREEN	FAIR	0.80 ± 0.30	mg / cm ^2
62	2019-04-11 14:13	MC- FALCON HALL	FIRST	115	WALL	CONCRETE	TEAL	FAIR	0.70 ± 0.30	mg / cm ^2
63	2019-04-11 14:15	MC- FALCON HALL	FIRST	115	WALL	CONCRETE	TEAL	FAIR	0.90 ± 0.30	mg / cm ^2
66	2019-04-11 14:25	MC- FALCON HALL	SECOND	215	STALL	METAL	GREY	FAIR	1.50 ± 0.10	mg / cm ^2
67	2019-04-11 14:26	MC- FALCON HALL	SECOND	215	STALL	METAL	GREY	FAIR	1.50 ± 0.10	mg / cm ^2
68	2019-04-11 14:30	MC- FALCON HALL	SECOND	200	WALL	CONCRETE	WHITE	FAIR	0.60 ± 0.30	mg / cm ^2
69	2019-04-11 14:31	MC- FALCON HALL	SECOND	200	WALL	CONCRETE	WHITE	FAIR	0.90 ± 0.40	mg / cm ^2
70	2019-04-11 14:33	MC- FALCON HALL	SECOND	200	WALL	CONCRETE	PURPLE	FAIR	0.70 ± 0.20	mg / cm ^2
71	2019-04-11 14:35	MC- FALCON HALL	SECOND	200	WALL	CONCRETE	PURPLE	FAIR	0.70 ± 0.20	mg / cm ^2
74	2019-04-11 14:53	MC- FALCON HALL	ROOF		BEAM	METAL	WHITE	FAIR	3.60 ± 0.60	mg / cm ^2
75	2019-04-11 14:54	MC- FALCON HALL	ROOF		BEAM	METAL	WHITE	FAIR	4.40 ± 0.30	mg / cm ^2

APPENDIX E
XRF TEST DATA

XRF Testing Data

Index	Time	Site	Room	Floor	Component	Substrate	Condition	Color	PbC	Units
1	2019-04-11 12:04	MC- FALCON HALL			CALIBRATE				1.00 ± 0.10	mg / cm ^2
2	2019-04-11 12:05	MC- FALCON HALL			CALIBRATE				1.10 ± 0.10	mg / cm ^2
3	2019-04-11 12:06	MC- FALCON HALL			CALIBRATE				1.20 ± 0.10	mg / cm ^2
4	2019-04-11 12:09	MC- FALCON HALL	112	FIRST	STAIR	METAL	FAIR	GREY	0.26 ± 0.04	mg / cm ^2
5	2019-04-11 12:11	MC- FALCON HALL	112	FIRST	RAILING	METAL	FAIR	GREY	0.01 ± 0.02	mg / cm ^2
6	2019-04-11 12:11	MC- FALCON HALL	112	FIRST	RAILING	METAL	FAIR	GREY	0.01 ± 0.02	mg / cm ^2
7	2019-04-11 12:14	MC- FALCON HALL	112	FIRST	STAIR	METAL	FAIR	GREY	0.14 ± 0.02	mg / cm ^2
8	2019-04-11 12:16	MC- FALCON HALL	112	BASEMENT	WALL	PLASTER	FAIR	WHITE	0.00 ± 0.02	mg / cm ^2
9	2019-04-11 12:16	MC- FALCON HALL	112	BASEMENT	WALL	PLASTER	FAIR	WHITE	0.00 ± 0.02	mg / cm ^2
10	2019-04-11 12:17	MC- FALCON HALL	112	BASEMENT	WALL	PLASTER	FAIR	WHITE	0.00 ± 0.02	mg / cm ^2
11	2019-04-11 12:19	MC- FALCON HALL	112	BASEMENT	WALL	PLASTER	FAIR	WHITE	0.00 ± 0.02	mg / cm ^2
12	2019-04-11 12:21	MC- FALCON HALL	112	BASEMENT	WALL	PLASTER	FAIR	WHITE	0.40 ± 0.30	mg / cm ^2
13	2019-04-11 12:24	MC- FALCON HALL	112	FIRST	WALL	CONCRETE	FAIR	WHITE	0.00 ± 0.02	mg / cm ^2
14	2019-04-11 12:27	MC- FALCON HALL	112	FIRST	DOOR	METAL	FAIR	GREY	0.03 ± 0.02	mg / cm ^2
15	2019-04-11 12:29	MC- FALCON HALL	112	FIRST	DOOR FRAME	METAL	FAIR	GREY	0.04 ± 0.02	mg / cm ^2
16	2019-04-11 12:33	MC- FALCON HALL	104	FIRST	DOOR FRAME	METAL	FAIR	GREY	0.08 ± 0.02	mg / cm ^2
17	2019-04-11 12:34	MC- FALCON HALL	104	FIRST	DOOR	METAL	FAIR	GREY	0.04 ± 0.02	mg / cm ^2
18	2019-04-11 12:36	MC- FALCON HALL	104	FIRST	WALL	CONCRETE	FAIR	WHITE	0.00 ± 0.02	mg / cm ^2
19	2019-04-11 12:40	MC- FALCON HALL	103	FIRST	FLOOR	CERAMIC	FAIR	BROWN	0.01 ± 0.02	mg / cm ^2
20	2019-04-11 12:42	MC- FALCON HALL	103	FIRST	SHOWER	CERAMIC	FAIR	TAN	0.00 ± 0.02	mg / cm ^2
21	2019-04-11 12:49	MC- FALCON HALL	109	FIRST	WALL	DRYWALL	FAIR	GREEN	0.00 ± 0.02	mg / cm ^2
22	2019-04-11 12:50	MC- FALCON HALL	109	FIRST	WALL	DRYWALL	FAIR	GREEN	0.00 ± 0.02	mg / cm ^2
23	2019-04-11 12:53	MC- FALCON HALL	110	FIRST	WALL	CONCRETE	FAIR	PURPLE	0.00 ± 0.02	mg / cm ^2
24	2019-04-11 12:54	MC- FALCON HALL	110	FIRST	WALL	CONCRETE	FAIR	PURPLE	0.00 ± 0.02	mg / cm ^2
25	2019-04-11 12:57	MC- FALCON HALL	111	FIRST	WALL	DRYWALL	FAIR	WHITE	0.00 ± 0.02	mg / cm ^2
26	2019-04-11 12:58	MC- FALCON HALL	111	FIRST	WALL	DRYWALL	FAIR	WHITE	0.00 ± 0.02	mg / cm ^2
27	2019-04-11 13:00	MC- FALCON HALL	111	FIRST	DOOR	METAL	FAIR	TAN	0.00 ± 0.02	mg / cm ^2
28	2019-04-11 13:01	MC- FALCON HALL	111	FIRST	DOOR	METAL	FAIR	TAN	0.05 ± 0.02	mg / cm ^2
29	2019-04-11 13:02	MC- FALCON HALL	111	FIRST	DOOR FRAME	METAL	FAIR	TAN	0.04 ± 0.02	mg / cm ^2
30	2019-04-11 13:03	MC- FALCON HALL	111	FIRST	DOOR FRAME	METAL	FAIR	TAN	0.00 ± 0.02	mg / cm ^2
31	2019-04-11 13:08	MC- FALCON HALL	117	FIRST	FLOOR	CONCRETE	FAIR	BROWN	0.00 ± 0.02	mg / cm ^2
32	2019-04-11 13:09	MC- FALCON HALL	117	FIRST	FLOOR	CONCRETE	FAIR	BROWN	0.00 ± 0.02	mg / cm ^2
33	2019-04-11 13:13	MC- FALCON HALL	113	FIRST	FLOOR	CONCRETE	FAIR	GREY	0.00 ± 0.02	mg / cm ^2
34	2019-04-11 13:15	MC- FALCON HALL	113	FIRST	FLOOR	CONCRETE	FAIR	GREY	0.00 ± 0.02	mg / cm ^2

XRF Testing Data














Index	Time	Site	Room	Floor	Component	Substrate	Condition	Color	PbC	Units
35	2019-04-11 13:17	MC- FALCON HALL	113	FIRST	WALL	CONCRETE	FAIR	WHITE	0.00 ± 0.02	mg / cm ^2
36	2019-04-11 13:18	MC- FALCON HALL	113	FIRST	WALL	CONCRETE	FAIR	RED	0.01 ± 0.02	mg / cm ^2
37	2019-04-11 13:21	MC- FALCON HALL	113	FIRST	COLUMN	CONCRETE	FAIR	RED	0.00 ± 0.02	mg / cm ^2
38	2019-04-11 13:22	MC- FALCON HALL	113	FIRST	COLUMN	CONCRETE	FAIR	WHITE	0.00 ± 0.02	mg / cm ^2
39	2019-04-11 13:25	MC- FALCON HALL	117	FIRST	FLOOR	CERAMIC	FAIR	BROWN	0.01 ± 0.02	mg / cm ^2
40	2019-04-11 13:28	MC- FALCON HALL	117	FIRST	URINAL	PORCELAIN	FAIR	WHITE	0.02 ± 0.02	mg / cm ^2
41	2019-04-11 13:29	MC- FALCON HALL	117	FIRST	SINK	PORCELAIN	FAIR	WHITE	0.17 ± 0.03	mg / cm ^2
42	2019-04-11 13:31	MC- FALCON HALL	117	FIRST	STALL	METAL	FAIR	GREY	1.50 ± 0.10	mg / cm ^2
43	2019-04-11 13:32	MC- FALCON HALL	117	FIRST	STALL	METAL	FAIR	GREY	1.50 ± 0.10	mg / cm ^2
44	2019-04-11 13:33	MC- FALCON HALL	117	FIRST	BASEBOARD	CERAMIC	FAIR	TAN	0.03 ± 0.02	mg / cm ^2
45	2019-04-11 13:37	MC- FALCON HALL	117	FIRST	WALL	CONCRETE	FAIR	WHITE	0.00 ± 0.02	mg / cm ^2
46	2019-04-11 13:38	MC- FALCON HALL	117	FIRST	WALL	CONCRETE	FAIR	WHITE	0.00 ± 0.02	mg / cm ^2
47	2019-04-11 13:39	MC- FALCON HALL	117	FIRST	WALL	CONCRETE	FAIR	RED	0.70 ± 0.20	mg / cm ^2
48	2019-04-11 13:45	MC- FALCON HALL	117	FIRST	LOCKER	METAL	FAIR	TAN	0.80 ± 0.10	mg / cm ^2
49	2019-04-11 13:46	MC- FALCON HALL	117	FIRST	LOCKER	METAL	FAIR	TAN	0.80 ± 0.10	mg / cm ^2
50	2019-04-11 13:50	MC- FALCON HALL	112B	FIRST	FLOOR	CONCRETE	POOR	GREY	0.00 ± 0.02	mg / cm ^2
51	2019-04-11 13:52	MC- FALCON HALL	112B	FIRST	FLOOR	CONCRETE	POOR	GREY	0.80 ± 0.30	mg / cm ^2
52	2019-04-11 13:54	MC- FALCON HALL	112B	FIRST	FLOOR	CONCRETE	POOR	GREY	0.90 ± 0.30	mg / cm ^2
53	2019-04-11 13:57	MC- FALCON HALL	115	FIRST	WALL	CONCRETE	FAIR	GREEN	0.00 ± 0.02	mg / cm ^2
54	2019-04-11 13:59	MC- FALCON HALL	115	FIRST	WALL	CONCRETE	FAIR	GREEN	0.00 ± 0.02	mg / cm ^2
55	2019-04-11 14:00	MC- FALCON HALL	115	FIRST	WALL	CONCRETE	FAIR	GREEN	0.01 ± 0.02	mg / cm ^2
56	2019-04-11 14:02	MC- FALCON HALL	115	FIRST	WALL	CONCRETE	FAIR	TEAL	0.80 ± 0.30	mg / cm ^2
57	2019-04-11 14:03	MC- FALCON HALL	115	FIRST	WALL	CONCRETE	FAIR	TEAL	0.90 ± 0.30	mg / cm ^2
58	2019-04-11 14:05	MC- FALCON HALL	115	FIRST	BEAM	METAL	FAIR	RED	3.20 ± 0.10	mg / cm ^2
59	2019-04-11 14:06	MC- FALCON HALL	115	FIRST	BEAM	METAL	FAIR	RED	4.20 ± 0.20	mg / cm ^2
60	2019-04-11 14:09	MC- FALCON HALL	115	FIRST	WALL	CONCRETE	FAIR	GREEN	0.60 ± 0.30	mg / cm ^2
61	2019-04-11 14:11	MC- FALCON HALL	115	FIRST	WALL	CONCRETE	FAIR	GREEN	0.80 ± 0.30	mg / cm ^2
62	2019-04-11 14:13	MC- FALCON HALL	115	FIRST	WALL	CONCRETE	FAIR	TEAL	0.70 ± 0.30	mg / cm ^2
63	2019-04-11 14:15	MC- FALCON HALL	115	FIRST	WALL	CONCRETE	FAIR	TEAL	0.90 ± 0.30	mg / cm ^2
64	2019-04-11 14:21	MC- FALCON HALL	215	SECOND	URINAL	PORCELAIN	FAIR	WHITE	0.01 ± 0.02	mg / cm ^2
65	2019-04-11 14:23	MC- FALCON HALL	215	SECOND	SINK	PORCELAIN	FAIR	WHITE	0.01 ± 0.02	mg / cm ^2
66	2019-04-11 14:25	MC- FALCON HALL	215	SECOND	STALL	METAL	FAIR	GREY	1.50 ± 0.10	mg / cm ^2
67	2019-04-11 14:26	MC- FALCON HALL	215	SECOND	STALL	METAL	FAIR	GREY	1.50 ± 0.10	mg / cm ^2
68	2019-04-11 14:30	MC- FALCON HALL	200	SECOND	WALL	CONCRETE	FAIR	WHITE	0.60 ± 0.30	mg / cm ^2

XRF Testing Data

Index	Time	Site	Room	Floor	Component	Substrate	Condition	Color	PbC	Units
69	2019-04-11 14:31	MC- FALCON HALL	200	SECOND	WALL	CONCRETE	FAIR	WHITE	0.90 ± 0.40	mg / cm ^2
70	2019-04-11 14:33	MC- FALCON HALL	200	SECOND	WALL	CONCRETE	FAIR	PURPLE	0.70 ± 0.20	mg / cm ^2
71	2019-04-11 14:35	MC- FALCON HALL	200	SECOND	WALL	CONCRETE	FAIR	PURPLE	0.70 ± 0.20	mg / cm ^2
72	2019-04-11 14:36	MC- FALCON HALL	200	SECOND	WALL	CONCRETE	FAIR	GREY	0.00 ± 0.02	mg / cm ^2
73	2019-04-11 14:38	MC- FALCON HALL	200	SECOND	WALL	CONCRETE	FAIR	GREY	0.00 ± 0.02	mg / cm ^2
74	2019-04-11 14:53	MC- FALCON HALL		ROOF	BEAM	METAL	FAIR	WHITE	3.60 ± 0.60	mg / cm ^2
75	2019-04-11 14:54	MC- FALCON HALL		ROOF	BEAM	METAL	FAIR	WHITE	4.40 ± 0.30	mg / cm ^2
76	2019-04-11 14:59	MC- FALCON HALL	200 TRACK	SECOND	FLOOR	CONCRETE	FAIR	BLUE	0.00 ± 0.02	mg / cm ^2
77	2019-04-11 15:00	MC- FALCON HALL	200 TRACK	SECOND	FLOOR	CONCRETE	FAIR	BLUE	0.00 ± 0.02	mg / cm ^2
78	2019-04-11 15:04	MC- FALCON HALL	202	SECOND	WALL	DRYWALL	FAIR	WHITE	0.00 ± 0.02	mg / cm ^2
79	2019-04-11 15:05	MC- FALCON HALL	202	SECOND	WALL	DRYWALL	FAIR	WHITE	0.00 ± 0.02	mg / cm ^2
80	2019-04-11 15:07	MC- FALCON HALL	202	SECOND	DOOR	METAL	FAIR	GREY	0.05 ± 0.03	mg / cm ^2
81	2019-04-11 15:08	MC- FALCON HALL	202	SECOND	DOOR	METAL	FAIR	GREY	0.06 ± 0.02	mg / cm ^2
82	2019-04-11 15:09	MC- FALCON HALL	202	SECOND	DOOR FRAME	METAL	FAIR	GREY	0.05 ± 0.02	mg / cm ^2
83	2019-04-11 15:10	MC- FALCON HALL	202	SECOND	DOOR FRAME	METAL	FAIR	GREY	0.06 ± 0.02	mg / cm ^2
84	2019-04-11 15:16	MC- FALCON HALL	LOBBY	SECOND	STRINGER	METAL	FAIR	GREY	0.00 ± 0.02	mg / cm ^2
85	2019-04-11 15:17	MC- FALCON HALL	LOBBY	SECOND	STRINGER	METAL	FAIR	GREY	0.00 ± 0.02	mg / cm ^2
86	2019-04-11 15:18	MC- FALCON HALL	LOBBY	SECOND	RAILING	METAL	FAIR	GREY	0.01 ± 0.02	mg / cm ^2
87	2019-04-11 15:19	MC- FALCON HALL	LOBBY	SECOND	RAILING	METAL	FAIR	GREY	0.00 ± 0.02	mg / cm ^2
88	2019-04-11 15:23	MC- FALCON HALL			CALIBRATE				1.00 ± 0.10	mg / cm ^2
89	2019-04-11 15:24	MC- FALCON HALL			CALIBRATE				1.10 ± 0.10	mg / cm ^2
90	2019-04-11 15:25	MC- FALCON HALL			CALIBRATE				1.10 ± 0.10	mg / cm ^2

APPENDIX F

DRAWINGS

ASBESTOS-CONTAINING MATERIALS LEGEND		
MAT. CODE	MATERIAL SYMBOL	MATERIAL DESCRIPTION
FM1		BLACK MASTIC ASSOCIATED WITH 12" X 12" OFF-WHITE WITH BLACK AND GRAY STREAKS FLOOR TILE (FT1)
FT2/FM2		12" X 12" TAN WITH CREAM AND BROWN STREAKS FLOOR TILE AND ASSOCIATED BLACK MASTIC
CK1		YELLOW/TAN CAULK ON DOOR
SM5		LIGHT BEIGE SEAM MASTIC ON PAPER-WRAPPED FIBERGLASS INSULATED PIPE
TP1		BROWN CORRUGATED CEMENTITIOUS PANELS
CK6		OFF-WHITE CAULK ON CMU/CONCRETE CEILING
STM1		BLACK STAIR TREAD MASTIC
ASSUMED ASBESTOS-CONTAINING MATERIALS LEGEND		
MAT. CODE	MATERIAL SYMBOL	MATERIAL DESCRIPTION
GK1		OFF-WHITE AND BLACK PIPE GASKETS
DM4		DARK BROWN SEAM MASTIC ON BARE METAL DUCT
FD1		FIRE DOOR
SAMPLE LEGEND		
	SAMPLE NUMBER (NEGATIVE)	
	SAMPLE NUMBER (POSITIVE)	
	SAMPLE NOT ANALYZED (POSITIVE STOP)	

NOTE:

- ALL FIRE DOORS WHERE PRESENT, ARE ASSUMED TO BE ASBESTOS-CONTAINING AND WERE NOT SAMPLED. ALL RATED FIRE DOORS THROUGHOUT THE BUILDING SHOULD BE TREATED AS ASBESTOS-CONTAINING UNTIL SAMPLING DETERMINES OTHERWISE.
- THE OFF-WHITE CAULK (CK6) AT THE CMU BLOCK WALL AND CONCRETE CEILING WAS ONLY OBSERVED IN THE MEN'S LOCKER ROOM 117A CORRIDOR AND 117B LOCKER AND SHOWER AREAS, AND WAS COVERED WITH RED PAINT. ADDITIONAL QUANTITIES OF THIS MATERIAL MAY POTENTIALLY BE PRESENT IN OTHER AREAS, ESPECIALLY WHERE THE CAULK HAS BEEN PAINTED OVER AND THE COLOR HAS BEEN OBSCURED.

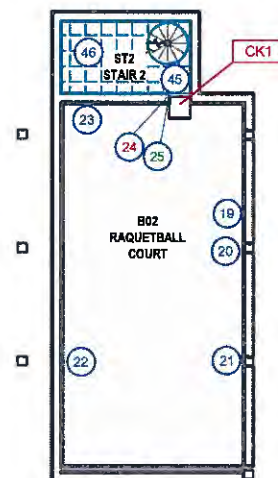
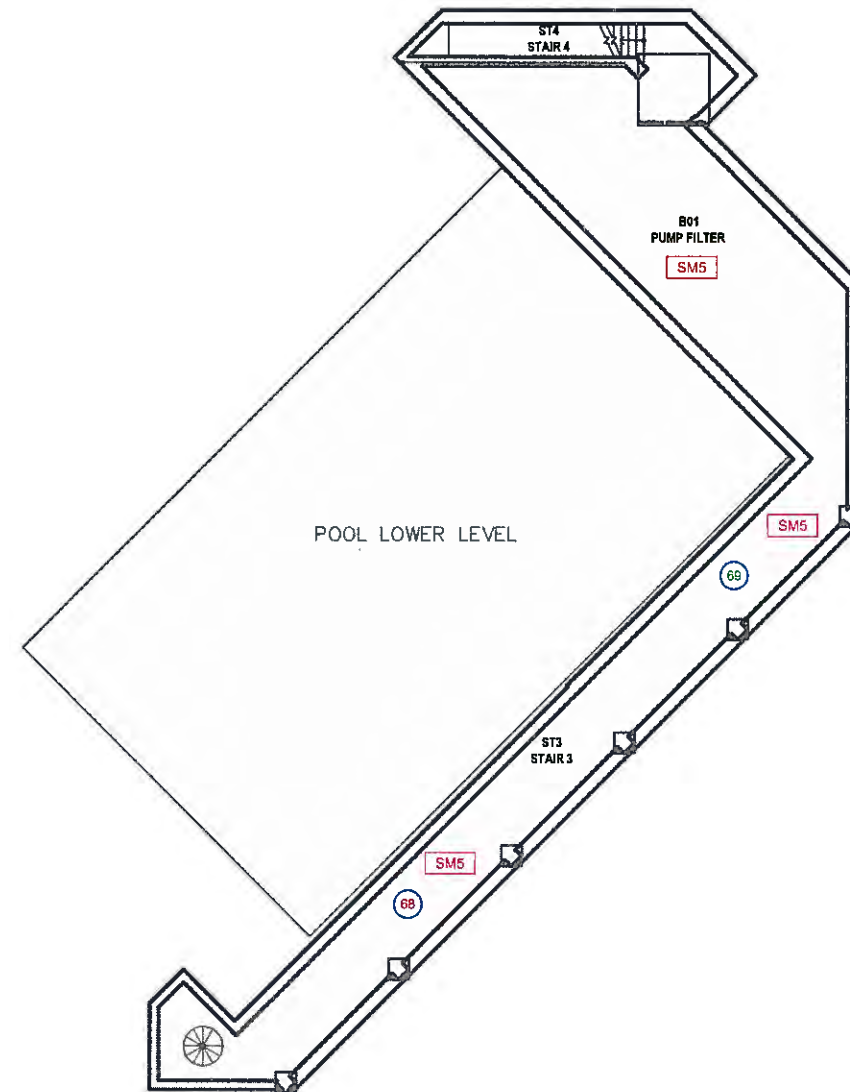


FIGURE 1
ASBESTOS SURVEY
















TAKOMA PARK/SILVER SPRING
CAMPUS

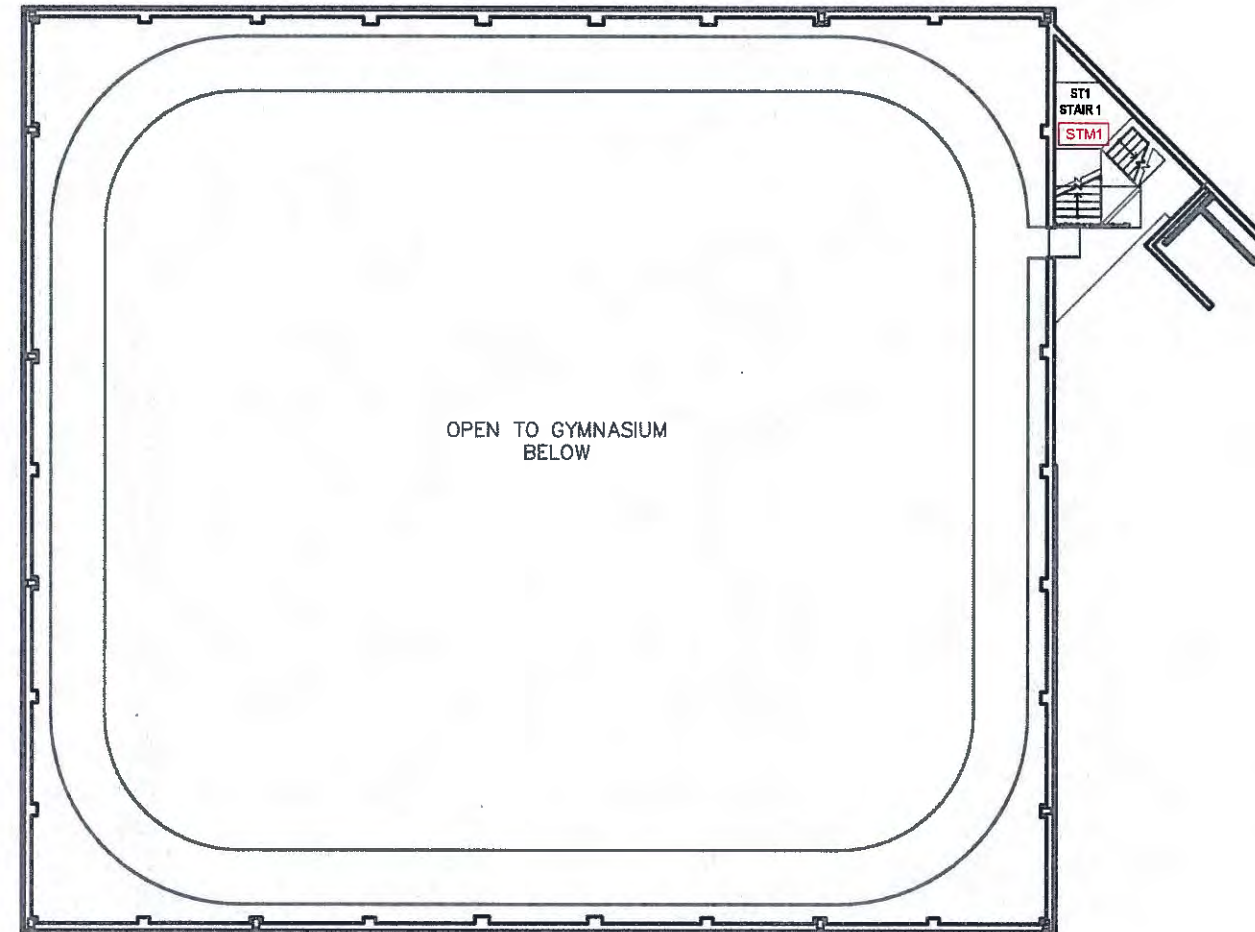
FALCON HALL
BASEMENT

SURVEY DATE APRIL 10 & 11, 2019		PROJECT NO. 046-19-0095
SHEET 1 OF 5	DRAWN BY OAS	DATE 05-10-2019
















200 FAIRBROOK DRIVE, SUITE 201, HERNDON, VA 20170

ASBESTOS-CONTAINING MATERIALS LEGEND		
MAT. CODE	MATERIAL SYMBOL	MATERIAL DESCRIPTION
FM1		BLACK MASTIC ASSOCIATED WITH 12" X 12" OFF-WHITE WITH BLACK AND GRAY STREAKS FLOOR TILE (FT1)
FT2/FM2		12" X 12" TAN WITH CREAM AND BROWN STREAKS FLOOR TILE AND ASSOCIATED BLACK MASTIC
CK1		YELLOW/TAN CAULK ON DOOR
SM5		LIGHT BEIGE SEAM MASTIC ON PAPER-WRAPPED FIBERGLASS INSULATED PIPE
TP1		BROWN CORRUGATED CEMENTITIOUS PANALS
CK6		OFF-WHITE CAULK ON CMU/CONCRETE CEILING
STM1		BLACK STAIR TREAD MASTIC
ASSUMED ASBESTOS-CONTAINING MATERIALS LEGEND		
MAT. CODE	MATERIAL SYMBOL	MATERIAL DESCRIPTION
GK1		OFF-WHITE AND BLACK PIPE GASKETS
DM4		DARK BROWN SEAM MASTIC ON BARE METAL DUCT
FD1		FIRE DOOR
SAMPLE LEGEND		
	SAMPLE NUMBER (NEGATIVE)	
	SAMPLE NUMBER (POSITIVE)	
	SAMPLE NOT ANALYZED (POSITIVE STOP)	



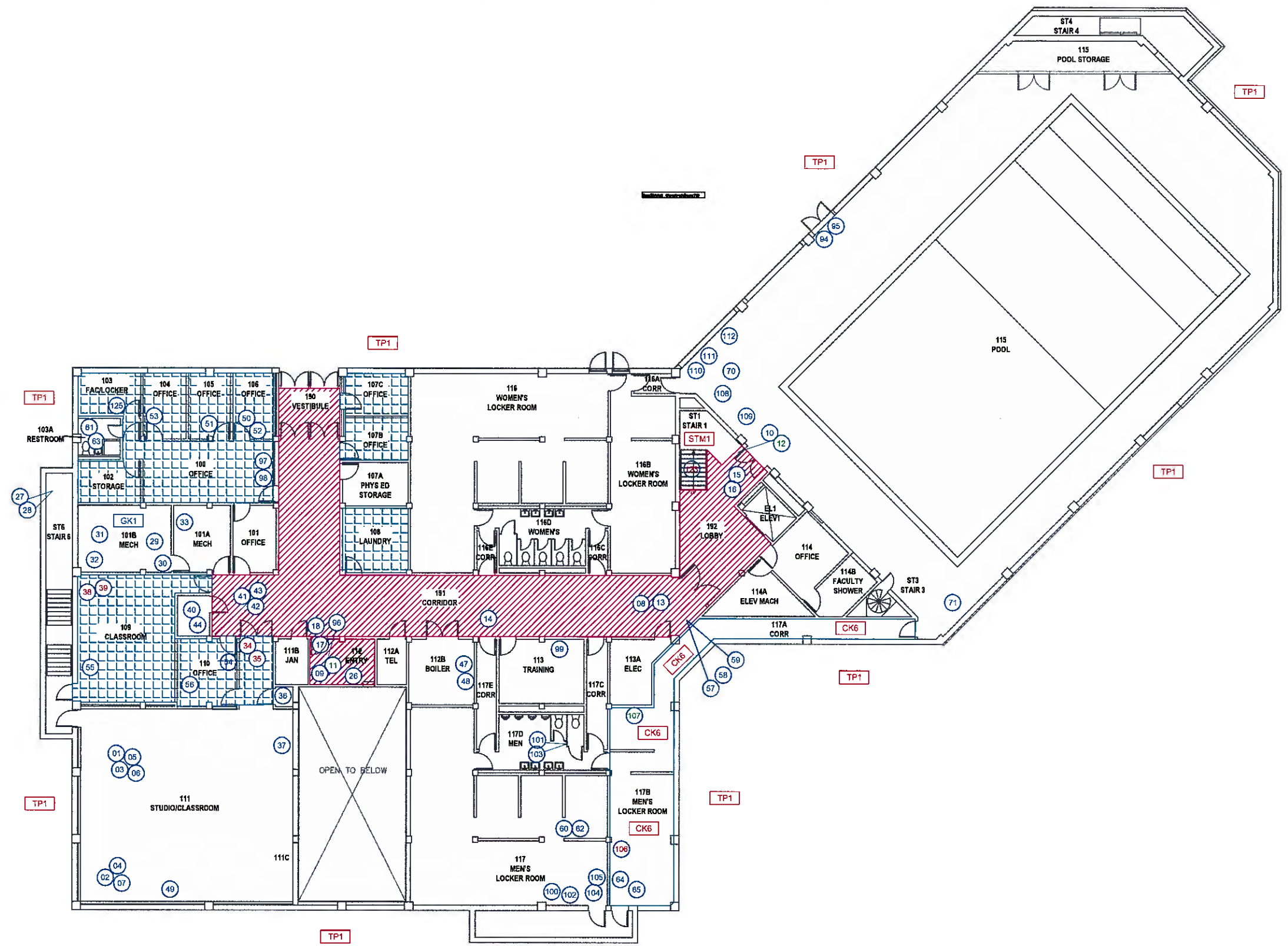
NOTE:

- ALL FIRE DOORS WHERE PRESENT, ARE ASSUMED TO BE ASBESTOS-CONTAINING AND WERE NOT SAMPLED. ALL RATED FIRE DOORS THROUGHOUT THE BUILDING SHOULD BE TREATED AS ASBESTOS-CONTAINING UNTIL SAMPLING DETERMINES OTHERWISE.
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ASBESTOS-CONTAINING MATERIALS LEGEND		
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CK1		YELLOW/TAN CAULK ON DOOR
SM5		LIGHT BEIGE SEAM MASTIC ON PAPER-WRAPPED FIBERGLASS INSULATED PIPE
TP1		BROWN CORRUGATED CEMENTITIOUS PANELS
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ASSUMED ASBESTOS-CONTAINING MATERIALS LEGEND		
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SAMPLE LEGEND		
	00	SAMPLE NUMBER (NEGATIVE)
	00	SAMPLE NUMBER (POSITIVE)
	00	SAMPLE NOT ANALYZED (POSITIVE STOP)

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200 FAIRBROOK DRIVE, SUITE 201, HERNDON, VA 20170








FIGURE 1
ASBESTOS SURVEY









TAKOMA PARK/SILVER SPRING
CAMPUS

FALCON HALL
FIRST FLOOR

SURVEY DATE APRIL 10 & 11, 2019		PROJECT NO. 046-19-0095	
SHEET 3 OF 5	DRAWN BY OAS	DATE 05-10-2019	

ASBESTOS-CONTAINING MATERIALS LEGEND		
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FM1		BLACK MASTIC ASSOCIATED WITH 12" X 12" OFF-WHITE WITH BLACK AND GRAY STREAKS FLOOR TILE (FT1)
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200 FAIRBROOK DRIVE, SUITE 201, HERNDON, VA 20170








FIGURE 1
ASBESTOS SURVEY









TAKOMA PARK/SILVER SPRING
CAMPUS

FALCON HALL
SECOND FLOOR

SURVEY DATE APRIL 10 & 11, 2019		PROJECT NO. 046-19-0095
SHEET 4 OF 5	DRAWN BY OAS	DATE 05-10-2019

ASBESTOS-CONTAINING MATERIALS LEGEND		
MAT. CODE	MATERIAL SYMBOL	MATERIAL DESCRIPTION
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