HAZARDOUS MATERIALS SURVEY REPORT

Science South Building



7600 Takoma Avenue Takoma Park, Maryland 20912

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Science South Building Montgomery College – Takoma Park 7600 Takoma Avenue Takoma Park, Maryland 20912

TABLE OF CONTENTS

SECTION	ON	PAGE
1.0	EXECUTIVE SUMMARY	1
2.0	BUILDING DESCRIPTION	2
3.0	SURVEY AND EVALUATION PROCEDURES	2
3.1 3.2 3.3 3.4	Asbestos-Containing Materials SurveyLead-Containing Surface Coating Screening SurveyPolychlorinated Biphenyl Verification and Mercury-Containing Articles SurveyAccessibility Limitations	3 3
4.0	RESULTS	4
4.1 4.2 4.3	Asbestos-Containing MaterialsLead-Containing Surface CoatingsPolychlorinated Biphenyls and Mercury Light Tubes	6
5.0	RECOMMENDATIONS	7
5.1 5.2 5.3	Asbestos-Containing MaterialsLead-Containing Surface CoatingsPolychlorinated Biphenyls and Mercury Light Tubes	9
Appen Appen Appen Appen Appen	dix B Asbestos Bulk Sample Analysis Reports dix C Identified and Assumed Asbestos-Containing Materials Estimated Quantities dix D Lead-Containing Surface Coatings dix E XRF Test Data	

HAZARDOUS MATERIALS SURVEY REPORT

Science South Building
Montgomery College – Takoma Park
7600 Takoma Avenue
Takoma Park, Maryland 20912

1.0 EXECUTIVE SUMMARY

Applied Environmental, Inc. conducted a hazardous material survey of the Science South Building, located at the Takoma Park campus of Montgomery College. The scope of this hazardous materials survey included the interior and exterior of the structure, but did not include the roof. 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 17 to 18, 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 fixtures, and door components. 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, the vast majority of fixtures included non PCB-containing electronic ballasts. Two ballasts, located in Custodial Storage Room 119C1, were observed that were not labeled as "Non-PCB." All other inspected magnetic ballasts contained "Non-PCB" 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. A suspect mercury-containing thermostat was observed in Electrical Room 123A. No other suspect

mercury-containing articles were observed within the building.

2.0 BUILDING DESCRIPTION

The Science South Building was originally constructed circa 1960, and totals approximately 23,800 square

feet. Major renovations to the gymnasium area were completed circa 1978. The building comprises three

stories plus a partial basement level, and consists of administrative offices, classrooms, laboratories, and

mechanical spaces. A free-standing Planetarium wing is located on the southern side of the main structure

and was included in this survey.

The building has an unpainted brick exterior with a flat, built-up roof. Interior finishing materials include carpet

and floor tile over concrete floors; concrete masonry unit (CMU) and gypsum board (drywall) walls; and

suspended ceiling tiles beneath gypsum board or concrete ceilings. Mechanical systems are predominantly

insulated with fiberglass insulation wrapped in foil or paper with seam mastic. Mudded joints were observed

on mechanical piping.

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 195 representative bulk samples were collected from 92 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

2

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, 70 surfaces were tested, including wall systems, door systems, window components, stair components, restroom 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 discriminator 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:

- Brown/green pin mastic (PM1) on pins holding grounding/sensor wire;
- Interior window caulk (CK2) on metal windows;
- Brown mastic (FM1) on 12" x 12" cream floor tile with olive green flecks and streaks (FT1, non-ACM);
- Orange mastic (FM2) on 12" x 12" off-white floor tile with gray and dark gray flecks (FT2, non-ACM);
- Black mastic (FM3) on 12" x 12" green floor tile with textured marble pattern (FT3, non-ACM);
- Gray caulk (CK3) at bridge connection;
- Black seam mastic (SM5) on foil fiberglass insulated duct;
- 12" x 12" tan floor tile with gray streaks (FT4) and associated black mastic (FM4);
- Light brown mastic (FM5) on 12" x 12" tan floor tiles with small black dots (FT5, non-ACM);
- White 1" exterior glazing compound (WG3) on metal windows;
- Brown carpet mastic (CM2);
- 9" x 9" dark green floor tiles (FT6) and associated black mastic (FM6);

- Black mastic (FM7) on 12" x 12" beige floor tile with tan and gray flakes (FT7, non-ACM);
- Gray/brown caulk (CK4) at window wall in Stair 2;
- Black ceramic cove base grout (GT1);
- 12" x 12" tan floor tile with cream mottle and brick red streaks (FT8) and associated black mastic (FM8);
- Gray caulk (CK6) in greenhouse windows;
- White glazing compound (WG2) on operable metal windows;
- 12" x 12" light gray floor tile with faint maroon streaks (FT10) and associated black mastic (FM10);
- Dark brown pin mastic (PM3) on fiberglass batt insulation adjoining Stair 2;
- Black mastic (FM11) on 12" x 12" gray floor tile with dark gray and white flecks (FT11, non-ACM)
- Exterior window caulk (CK7);
- Brown corrugated cementitious wall panel (WP1) at junction of bridge and Science North Building;
- Gray carpet mastic (CM3) in Planetarium;
- 12" x 12" tan floor tile (FT16) and associated black mastic (FM16);
- Cream seam mastic (SM7) on white paper foil wrapped fiberglass pipe insulation;
- Cream seam mastic (SM8) on black paper wrapped fiberglass pipe insulation; and
- Cream seam mastic (SM9) on tan paper wrapped fiberglass pipe insulation.

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:

- Adhesive behind whiteboard (AD4) throughout classrooms, previously sampled by client;
- Pipe gaskets in Mechanical Rooms 122 and 131 (GK1, 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:

- Urinals in restrooms throughout the building;
- Black ceramic tile cove base in restrooms throughout the building;
- Gray metal stalls in restrooms throughout the building;
- Yellow concrete walls in Electrical Room 123A;
- Brown metal door in Custodial Supply Room 119C;
- Gray metal door frames to Office 222 and Office 323;
- White concrete walls on the 2nd floor level of the bridge to the Science North Building;
- Beige concrete wall in Recycled Paper Room 006;
- Brown metal wall cap on the 3rd floor level of the bridge to the Science North Building; and
- White concrete walls in Office 323 and Corridor 2C1.

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 or glazed surface 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 discriminator. All of the fluorescent light fixtures containing magnetic ballasts within the survey area were visually inspected for suspect PCB-containing light ballasts. Two ballasts were observed in Custodial Storage Room 119C1 that did not have "No PCBs" labels. All other visually inspected magnetic 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. A suspect mercury thermostat was observed in Electrical Room 123. No other suspect 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 friable ACM is defined as any material that contains more than one percent asbestos that, when dry, can be crumbled, pulverized, or reduced to powder by hand pressure. The following identified and assumed ACMs are friable materials as defined by NESHAP:

- White 1" exterior glazing compound (WG3) on metal windows;
- White glazing compound (WG2) on operable metal windows;

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:

- Brown/green pin mastic (PM1) on pins holding grounding/sensor wire;
- Interior window caulk (CK2) on metal windows;
- Brown mastic (FM1) on 12" x 12" cream floor tile with olive green flecks and streaks (FT1, non-ACM);
- Orange mastic (FM2) on 12" x 12" off-white floor tile with gray and dark gray flecks (FT2, non-ACM);
- Black mastic (FM3) on 12" x 12" green floor tile with textured marble pattern (FT3, non-ACM);
- Gray caulk (CK3) at bridge connection;

- Black seam mastic (SM5) on foil fiberglass insulated duct;
- 12" x 12" tan floor tile with gray streaks (FT4) and associated black mastic (FM4);
- Light brown mastic (FM5) on 12" x 12" tan floor tiles with small black dots (FT5, non-ACM);
- Brown carpet mastic (CM2);
- 9" x 9" dark green floor tiles (FT6) and associated black mastic (FM6);
- Black mastic (FM7) on 12" x 12" beige floor tile with tan and gray flakes (FT7, non-ACM);
- Gray/brown caulk (CK4) at window wall in Stair 2;
- Black ceramic cove base grout (GT1);
- 12" x 12" tan floor tile with cream mottle and brick red streaks (FT8) and associated black mastic (FM8);
- Gray caulk (CK6) in Greenhouse windows;
- 12" x 12" light gray floor tile with faint maroon streaks (FT10) and associated black mastic (FM10);
- Dark brown pin mastic (PM3) on fiberglass batt insulation adjoining Stair 2;
- Black mastic (FM11) on 12" x 12" gray floor tile with dark gray and white flecks (FT11, non-ACM)
- Exterior window caulk (CK7);
- Brown corrugated cementitious wall panel (WP1) at junction of bridge and Science North Building;
- Gray carpet mastic (CM3) in Planetarium;
- 12" x 12" tan floor tile (FT16) and associated black mastic (FM16);
- Cream seam mastic (SM7) on white paper foil wrapped fiberglass pipe insulation;
- Cream seam mastic (SM8) on black paper wrapped fiberglass pipe insulation;
- Cream seam mastic (SM9) on tan paper wrapped fiberglass pipe insulation; and
- Adhesive behind whiteboard.

The non-friable ACM observed in the building was generally 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



Montgomery College – Takoma Park Science South Building 7600 Takoma Avenue Takoma Park, Maryland

Material Code	Material Description	Friable (Yes/No)	Material Location	Sample Numbers	ACM (Yes/No)	Approx. Quantity*
SM1	Cream seam mastic on white paper-wrapped fiberglass insulated pipe	No	Mechanical Room 122	01, 02	NAD	
CK1	Light tan caulk	No	All metal door casings at CMU/brick walls	11, 12, 91	NAD	
SM2	Seam mastic on orange painted (newer) paper-wrapped fiberglass insulated pipe	No	Mechanical Room 122	05, 06	NAD	
MJ1	Light gray mudded joints on paper-wrapped fiberglass insulated pipe	Yes	Mechanical Room 122	03, 04, 73	NAD	
SM3	Seam mastic on paper-wrapped fiberglass insulated pipe	No	Mechanical Room 122	07, 08	NAD	
PM1	Brown/green pin mastic holding grounding wire	No	Mechanical Room 122; Corridor 2C1	09, 10	30% Chrysotile	10 sf
CK2	Interior window caulk	No	Metal windows throughout	13, 144	2% Chrysotile	90 Windows
FT1	12" x 12" cream floor tile with olive green flecks and streaks	No	Corridor 1C1; Janitor's Closet 120C; Office 125	96, 98	NAD	
FM1	Brown mastic on FT1	No	Corridor 1C1; Janitor's Closet 120C; Office 125	97, 99	4% Chrysotile	1,205 sf
FT2	12" x 12" off-white floor tile with gray and dark gray flecks	No	Corridor 2C1 and 3C1; Classroom 227	20, 75	NAD	
FM2	Orange mastic on FT2	No	Corridor 2C1 and 3C1; Classroom 227	21, 76	3% Chrysotile	2,812 sf
CT1	2' x 4' white ceiling tile with pinholes, dots, and small gouges	Yes	Predominant ceiling tile throughout	14, 143	NAD	
FT3	12" x 12" green floor tile with textured, marbled pattern	No	Classrooms 320, 321	17, 50	NAD	
FM3	Black mastic on FT3	No	Classrooms 320, 321	18, 51	2% Chrysotile	1,282 sf
CBM1	Light tan cove base mastic	No	Predominant cove base mastics throughout	15, 35	NAD	
CBM2	Tan/brown residual cove base mastic	No	Predominant cove base mastics throughout	16, 36	NAD	
DJ1	Drywall and joint compound	No	Office 120A/B; Classroom 227; Classrooms 320, 327	19, 61	NAD	



Montgomery College – Takoma Park Science South Building 7600 Takoma Avenue Takoma Park, Maryland

Material Code	Material Description	Friable (Yes/No)	Material Location	Sample Numbers	ACM (Yes/No)	Approx. Quantity*
WG1	Interior window glazing compound	Yes	Metal windows throughout	22, 87	NAD	
LC1	White leveling compound	No	Corridor 3C1	23, 191	NAD	
СКЗ	Gray caulk at bridge connecting to Science North Building	No	Classroom 320; Office 329	24, 192	2% Chrysotile	30 lf
PM2	Red pin mastic on duct	No	Corridor 3C1	25, 26	NAD	
SM4	Gray seam mastic on foil fiberglass insulated duct	No	Corridor 3C1; Offices 322 to 324	27, 58	NAD	
SM5	Black seam mastic on foil fiberglass insulated duct	No	Corridor 3C1; Offices 322 to 324	28, 59	5% Chrysotile	123 lf
FT4	12" x 12" tan floor tile with gray streaks	No	Office 325	29, 189	2% Chrysotile	295 sf
FM4	Black mastic on FT4	No	Office 325	30, 190	2% to 4% Chrysotile	295 sf
CM1	Tan carpet mastic	No	Classroom 120; Offices 120A/B, 123, 125 to 127; Classrooms 226, 227; Offices 221 to 223; Office 325, 328, 329	31, 188	NAD	
FT5	12" x 12" tan floor tiles with small black dots	No	Kitchen 325A	32, 45	NAD	
FM5	Light brown mastic on FT5	No	Kitchen 325A	33, 46	5% Chrysotile	140 sf
LC2	Tan/gray leveling compound	No	Kitchen 325A, Office 326	34, 48	NAD	
CT2	2' x 2' white ceiling tile with pinholes, dots, and irregular gouges	Yes	Office 325	37, 41	NAD	
CT3	2' x 2' white ceiling tile with pinholes, dots, and small gouges	No	Office 325	38, 42	NAD	
DJ2	Drywall with tan paper and white joint compound	Yes	Office 325 and Kitchen 325A dividing wall	39, 40	NAD	
CBM3	Light brown mastic on 4" cove base	No	Corridor 3C1	43, 44	NAD	



Montgomery College – Takoma Park Science South Building 7600 Takoma Avenue Takoma Park, Maryland

Material Code	Material Description	Friable (Yes/No)	Material Location	Sample Numbers	ACM (Yes/No)	Approx. Quantity*
CT4	2' x 4' white ceiling tile with dots and holes in swirl pattern	Yes	Classroom 120; Offices 121, 123; Classrooms 220, 226, 227; Classroom 326 and 327	49, 60	NAD	
WG3	White, 1" exterior glazing compound	Yes	Metal windows throughout	52, 80	2% Chrysotile	90 Windows
CM2	Brown carpet mastic	No	Office 120A/B; Classroom 326; Offices 322 to 324	47, 57	5% Chrysotile	1,501 sf
FT6	9" x 9" dark green floor tile with tan/white streaks	No	Janitor's Closet 324A, 005	53, 55	4% Chrysotile	28 sf
FM6	Black mastic on FT6	No	Janitor's Closet 324A, 005	54, 56	5% Chrysotile	28 sf
FT7	12" x 12" beige floor tile with tan and gray short flakes	No	Stair 2, Stair 2	83, 85	NAD	
FM7	Black mastic on FT7	No	Stair 1, Stair 2	84, 86	4% Chrysotile	385 sf
CK4	Gray/brown caulk between window/door and brick wall	No	Stair 2, 1C2 Entry Door	62, 77	3% Chrysotile	100 lf
CK5	Thin gray caulk on metal window wall	No	Stair 2	63, 120	NAD	
GT1	Black ceramic cove base grout	No	Restrooms (except basement)	64, 130	2% Chrysotile	285 If
GT2	Gray ceramic floor tile grout	No	Restrooms (except basement)	65, 129	NAD	
AD1	Light tan adhesive/thin set	No	Restrooms (except Basement)	66, 145	NAD	
FT8	12" x 12" tan floor tile with cream mottle and brick red streaks	No	Corridor and Offices 119A/B; Classroom 124; Classroom 220; Offices 221 to 223; Telecom 225A; Headhouse 224	67, 69	2% Chrysotile	3,317 sf
FM8	Black mastic on FT8	No	Corridor and Offices 119A/B; Classroom 124; Classroom 220; Offices 221 to 223; Telecom 225A; Headhouse 224	68, 70	5% Chrysotile	3,317 sf
LT1	Black laboratory tables	No	Classroom 220	71, 195	NAD	



Montgomery College – Takoma Park Science South Building 7600 Takoma Avenue Takoma Park, Maryland

Material Code	Material Description	Friable (Yes/No)	Material Location	Sample Numbers	ACM (Yes/No)	Approx. Quantity*
LS1	Black laboratory sinks	No	Classroom 220	72, 196	NAD	
MJ2	Mudded joints on 6" fabric- wrapped fiberglass insulated pipe	Yes	Perimeter of 1 st and 2 nd floor	78, 79, 82	NAD	
CT5	2' x 4' ceiling tile with sparse pinholes and fat fissures	Yes	Supply 119C; Headhouse 224, Telecom 225A	81, 88	NAD	
SM6	Tan mastic patch on pipe insulation	No	Headhouse 224	89, 90	NAD	
CK6	Gray caulk	No	Greenhouse windows	92, 93	3% Chrysotile	1,800 lf
AD2	Black flashing adhesive	No	Greenhouse floor	94, 95	NAD	
WG2	White glazing compound	No	Operable lower metal windows	114, 115	2% Chrysotile	90 Windows
FT9	12" x 12" light brown, brown, and khaki mottle floor tile	No	Classroom 124	148, 149	NAD	
FM9	Yellow mastic on FT9	No	Classroom 124	150, 151	NAD	
FT10	12" x 12" light gray floor tile with faint maroon streaks	No	Office 120A/B, 123, 126, 127; Classroom 120	100, 102	3% Chrysotile	1,584 sf
FM10	Black mastic on FT10	No	Office 120A/B, 123, 126, 127; Classroom 120	101, 103	2% Chrysotile	1,584 sf
PM3	Dark brown pin mastic on fiberglass batt insulation	No	Corridor 1C1 and 2C1 at Stair 2	104, 105	20% Chrysotile	200 sf
FT11	12" x 12" gray floor tile with dark gray and white flecks	No	Supply Room 121	106, 108	NAD	
FM11	Black mastic on FT11	No	Supply Room 121	107, 109	2% Chrysotile	83 sf
DJ3	Drywall and joint compound	Yes	Supply Room 121 and 119C dividing wall; Recycled Paper 006	110, 111, 177	NAD	
CT6	2' x 4' white ceiling tile with dots, holes, and fat fissures	Yes	Supply Room 119C and 121	112, 113	NAD	
CK7	Exterior window caulk	No	Metal window walls	116, 117	3% Chrysotile	90 Windows



Montgomery College – Takoma Park Science South Building 7600 Takoma Avenue Takoma Park, Maryland

Material Code	Material Description	Friable (Yes/No)	Material Location	Sample Numbers	ACM (Yes/No)	Approx. Quantity*
WP1	Brown corrugated cementitious wall panel	No	Exterior of Science North Building at bridge	118, 119	10% Chrysotile	100 sf
FT12	12" x 12" royal blue mottle floor tile	No	Planetarium Lobby 135	121, 123	NAD	
FM12	Tan mastic on FT12 and FT13	No	Planetarium Lobby 135	122, 124	NAD	
FT13	12" x 12" dark gray mottle floor tile	No	Planetarium 130	125, 126	NAD	
DJ4	Drywall and joint compound	Yes	Planetarium	127, 128	NAD	
PG1	Gray parging on CMU block dome	No	Planetarium outer dome	131, 132, 133	NAD	
PL1	Plaster dome	No	Planetarium outer dome	134, 135, 136, 137, 138	NAD	
CM3	Gray (old) carpet mastic	No	Control Room 132 Planetarium 130	139, 140	2% Chrysotile	560 sf
CBM4	Beige cove base mastic	No	Planetarium	141, 142	NAD	
PL2	Plaster ceilings	No	Restrooms	146, 147, 160	NAD	
WC1	Wall coating	No	Corridors 1C1, 2C1, and 3C1; Stair 1	193, 194	NAD	
FT14	12" x 12" white floor tile with light tan and light gray faint flecks	No	2 nd Floor bridge	153, 154	NAD	
FM14	Mastic on FT14	No	2 nd Floor bridge	155, 156	NAD	
PL3	Plaster ceiling	No	2 nd Floor bridge	157, 158, 159	NAD	
FT15	12" x 12" gray floor tile with dark and light gray mottle and white flecks	No	Facilities Lounge 003	161, 162	NAD	
FM15	Yellow mastic on FT15	No	Facilities Lounge 003	163, 164	NAD	
FT16	12" x 12" tan floor tile, bottom layer	No	Facilities Lounge 003 (bottom layer)	165, 166	2% Chrysotile	442 sf



Montgomery College – Takoma Park Science South Building 7600 Takoma Avenue Takoma Park, Maryland

Material Code	Material Description	Friable (Yes/No)	Material Location	Sample Numbers	ACM (Yes/No)	Approx. Quantity*
FM16	Black mastic on FT16	No	Facilities Lounge 003 (bottom layer)	167, 168	2% Chrysotile	442 sf
FT17	12" x 12" black floor tile	No	Stair 1 basement landing (0SA)	169, 170	NAD	
FM17	Black mastic on FT17	No	Stair 1 basement landing (0SA)	171, 172	NAD	
FT18	12" x 12" off-white floor tile with tan and gray mottle	No	Stair 1 basement landing (0SA)	173, 174	NAD	
FM18	Black mastic on FT18	No	Stair 1 basement landing (0SA)	175, 176	NAD	
AD3	Tan adhesive	No	Wall signs	178, 187	NAD	
AD4	Tan adhesive on beige ceramic tile	No	Basement restrooms	179, 180	NAD	
AD5	Brown adhesive on beige tile	No	Basement restrooms	181, 182	NAD	
GT3	Gray grout on beige ceramic tile	No	Basement restrooms	183, 184	NAD	
FS1	Red fire stop	No	Wall penetrations	185, 186	NAD	
	Cream seam mastic on white,			(white 74, 198, 201, 205)		
SM7	black, and tan paper foil wrapped pipes	No	Throughout (except Mechanical Room 122)	(black 197, 199, 207)	2% to 5% Chrysotile	1,690 lf
				(tan 200, 204, 206)		
FC1	Floor covering beneath black rubber	No	Greenhouse	202, 203	NAD	
DM1	Gray mastic on metal duct seams	No	Planetarium Mechanical Room 131	208, 209	NAD	
GK1	Pipe gaskets	No	Mechanical Rooms 122 and 131	Not Accessible	Assumed ACM	50 ea
FD1	Fire doors	No	All UL Listed Doors	Not Sampled	Assumed ACM	All UL Listed Doors



Montgomery College – Takoma Park Science South Building 7600 Takoma Avenue Takoma Park, Maryland

April 17 and 18, 2019

Material	Material	Friable	Material	Sample	ACM	Approx.
Code	Description	(Yes/No)	Location	Numbers	(Yes/No)	Quantity*
AD4	Adhesive behind whiteboard	No	Throughout classrooms	Sampled by client	Yes	ND

ACM = Asbestos-Containing Material

sf = square feet

If = linear feet

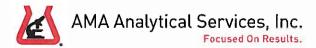
ea = each

ND = not determined

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: 614318

Client:

Applied Environmental, Inc.

Address:

200 Fairbrook Drive

Suite 201

Herndon, VA 20170

Attention:

Bradley Pearson

Science South Job Name:

Job Location: Montgomery College - Takoma Park

Job Number: 46-19-0095

P.O. Number: Not Provided

Date Submitted:

04/22/2019

Date Analyzed: 04/26/2019

Report Date:

04/26/2019

Date Sampled: 04/17/2019 - 04/18/2019

Person Submitting: Barrett McMullan

AMA Sample Number	Client Sample Number	Total Asbestos	Statement of the second	Amosite Percent	Crocidolite Percent	Other Asbestos Percent	Mineral Wool Percent	Fiberglass Percent	Organic Percent	Synthetic Percent		Particulate Percent	Sample Type	Sample Color	Homogeneity	Analyst ID	Comments
614318-1	BP090417-1	NAD				-		TR	TR		TR	100	SSL	Cream	Homogeneous	sw	
614318-2	BP090417-2	NAD	and		· Lating and part of the second second		**	TR	TR	Application of the first provide American in the second American in	TR	100	SSL	Cream	Homogeneous	SW	Park Angelon — with his Pright Assembly (1) of high the gray
614318-3	BP090417-3	NAD	_			-	40	_				60	Mud	Gray	Homogeneous	SW	The state of the s
614318-4	BP090417-4	NAD					40					60	Mud	Gray	Homogeneous	SW	ATTACA PRO-
614318-5	BP090417-5	NAD								habita finding for the commence or a	5	95	SLT	Orange	Homogeneous	sw	the terms of the second se
614318-6	BP090417-6	NAD	***		dia santahan sahim as aur i diamora ass	man seems are married to the seems of the se	Evitoria il aboternosti raternos sil in manaca		—		5	95	SLT	Orange	Homogeneous	SW	* * * * * * * * * * * * * * * * * * * *
614318-7	BP090417-7	NAD			**		***	TR		-	5	95	SLT	Green	Homogeneous	SW	-
614318-8	BP090417-8	NAD			Will ap \$1 has "may a stringer an emplo			TR			5	95	SLT	Green	Homogeneous	SW	Martini II. a a e e e e e e e e e e e e e e e e e
614318-9	BP090417-9	30	30		and the state of t							70	MS	Brown	Homogeneous	SW	and the schools are confirmed to the school
614318-10	BP090417-10	-	_		**			_	-	-		-			•	SW	Sample not analyzed. Positive stop.
614318-11	BP090417-11	NAD			t 1 yet, wheel will recommisse	- half of 1 Japan		-		with new transmit administral of	nem .	100	СК	Tan	Homogeneous	sw	Angel for mal the desire on the males
614318-12	BP090417-12	NAD			A MARINES - HE RESPONDENCE AND	Nes	e artises that have an indicated when the	we're He select and one concerns to a select to		at eller when he revolutioner	me	100	СК	Tan	Homogeneous	SW	
614318-13	BP090417-13	2	2		of make the management	man marine a series a series and a series an		***		-		98	СК	Gray	Homogeneous	SW	WAR AND ADDRESS OF THE PARTY OF
614318-14	BP090417-14	NAD	-	-		man ryc ra	30		30			40	CT	Multi	Layered	SW	
614318-15	BP090417-15	NAD	-	-			**	-		and the same		100	MS	Tan	Homogeneous	sw	A , 44-00 - 44-00
614318-16	BP090417-16	NAD	alan	-				_	**	-	**	100	MS	Brown	Homogeneous	sw	and bullet par
614318-17	BP090417-17	NAD		***	and		11 m pr 18. 10 mm	_				100	FT	Green	Homogeneous	sw	Was if and the mile Week
614318-18	BP090417-18	2	2	**			***	_	**	-		98	MS	Black	Homogeneous	sw	
614318-19	BP090417-19	NAD	-		· Managed on a page 11. A person of	THE STATE OF THE S		TR	10	**	_	90	DW	Multi	Layered	sw	
614318-20	BP090417-20	NAD	_	_		***		_	-			100	FT	Multi	Homogeneous	SW	



Client: Applied Environmental, Inc.

Address: 200 Fairbrook Drive

Suite 201

Herndon, VA 20170

Attention: Bradley Pearson

CERTIFICATE OF ANALYSIS

Job Name: Science South

Date Submitted:

04/22/2019

04/26/2019

Job Location: Montgomery College - Takoma Park

P.O. Number: Not Provided

Date Analyzed: 04/26/2019

Job Number: 46-19-0095

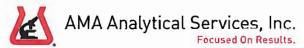
Report Date: Date Sampled:

04/17/2019 - 04/18/2019

Person Submitting:

Barrett McMullan

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		Particulate Percent	Sample Type	Sample Color	Homogeneity	Analyst ID	Comments
614318-21	BP090417-21	NAD				-	-	-	TR			100	MS	Multi	Homogeneous	sw	
614318-22	BP090417-22	NAD						Saperant and the saperant	and the second	TR		100	GZ	Gray	Homogeneous	SW	
614318-23	BP090417-23	NAD	man all: 1 labour.	** 1996-9171 West his his		man to the part of many		THE AMERICAN PROPERTY.		and the same of th	## H## H# 1 1 1 11	100	LC	White	Homogeneous	sw	m and the second and although all addresses
614318-24	BP090417-24	2	2		**	* 1 + 10 + 10 + 1 + 10 + 10 + 10 + 10 +		_	=n	- Idel is her sta		98	СК	Gray	Homogeneous	SW	density and the o
614318-25	BP090417-25	NAD		-			TR					100	MS	Red	Homogeneous	sw	10.00 April 10.00
614318-26	BP090417-26	NAD	_				TR	Brad				100	MS	Red	Homogeneous	sw	M. Lawrence J. Mar of - models
614318-27	BP090417-27	NAD	- 191 91 491 1965			and the second to the second to	TR			and the state of t	_	100	MS	Gray	Homogeneous	SW	- 11 1001 - 11 1 1
614318-28	BP090417-28	5	5	- '	-	- And Andrews		of Belleville and Bel		_	A1 abs - 11 4 4	95	SLT	Black	Homogeneous	SW	months decree
614318-29	BP090417-29	2	2			-		* NII N three . t.r		-		98	FT	Tan	Homogeneous	sw	as an above the man of decidings
614318-30	BP090417-30	4	4				TR	- Marin Marin Marin 10 ME /1		-		96	MS	Black	Homogeneous	sw	
614318-31	BP090417-31	NAD					We should delive Job have require _now the months.	THE SECOND SECTION AND ADDRESS OF THE SECOND SECOND SECTION AND ADDRESS OF THE SECOND		TR		100	СМ	Tan	Homogeneous	SW	
614318-32	BP090417-32	NAD				- And or shirt have broken a smaller	**	to a distribution that it would now an incomment		and the second s		100	FT	Tan	Homogeneous	SW	ampen i vitalinakineenheentiini
614318-33	BP090417-33	5	5						TR	_		95	MS	Brown	Homogeneous	sw	
614318-34	BP090417-34	NAD	-		*** *** * **** * ********* *****	are a supplemental property of the		The december Tops Delay do syntrops Broket file is the year of	TR	Parallel State (State of State		100	LC	Multi	Homogeneous	SW	and the second s
614318-35	BP090417-35	NAD	-		**							100	MS	Tan	Homogeneous	SW	T quarter as a will be rough a Manac Ser o
614318-36	BP090417-36	NAD	-			**		Mark		TR	-	100	MS	Brown	Homogeneous	SW	
614318-37	BP090417-37	NAD				-	30	-	30			40	СТ	Multi	Layered	SW	
614318-38	BP090417-38	NAD	_			11 TO 11	30		30			40	СТ	Multi	Layered	SW	with model and and the second
614318-39	BP090417-39	NAD			The common participant and a		-titititititititititi	The second section of the section of the second section of the section of the second section of the section of the second section of the section of th	10	_		90	DW	Multi	Layered	SW	- Meri arrow ule na creci re i secondo
614318-40	BP090417-40	NAD		maningly a modelly speech or disk at		to the same of the first terms o		philos philipper salabase after a di casa	10	-	e. Consistent Cathorists — Jan.	90	DW	Multi	Layered	SW	THE STATE OF THE S
614318-41	BP090417-41	NAD		Per of the Assessment of the Assessment	~		30		30	-		40	CT	Multi	Layered	SW	the control of the control of the
614318-42	BP090417-42	NAD			-	me, to temperatural soft, to	30	ar distant and in for individual tender's individual s	30			40	CT	Multi	Layered	SW	



Client: Applied Environmental, Inc.

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Herndon, VA 20170

Attention: Bradley Pearson

CERTIFICATE OF ANALYSIS

Job Name: Science South

Date Submitted:

04/22/2019

Job Location: Montgomery College - Takoma Park

Date Analyzed:

04/26/2019 04/26/2019

Job Number: 46-19-0095

P.O. Number: Not Provided

Report Date:

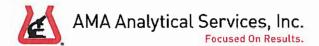
Date Sampled:

04/17/2019 - 04/18/2019

Person Submitting:

Barrett McMullan

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		Sample Type	Sample Color	Homogeneity	Analyst ID	Comments
614318-43	BP090417-43	NAD	-	-	-		-	-	-			100	MS	Brown	Homogeneous	sw	
614318-44	BP090417-44	NAD				most to a series of the decision on the series		-			-	100	MS	Brown	Homogeneous		The Publisher of the control
614318-45	BP090417-45	NAD				-	- The state of the	the state page 11 1 July		_		100	FT	Tan	Homogeneous		TO-THERE IS IN THE
614318-46	BP090417-46	••					••	-	_	AN .				Springer #4 Arms	-		Sample not analyzed. Positive stop.
614318-47	BP090417-47	5	5			***			-		••	95	СМ	Brown	Homogeneous	SW	
614318-48	BP090417-48	NAD		••		**				-	••	100	LC	Multi	Homogeneous	sw	White the state of
614318-49	BP090417-49	NAD		-		_	30	enter de la contrata del la contrata de la contrata	30	**		40	CT	Multi	Layered	SW	
614318-50	BP090417-50	NAD		-	••			***	-				FT	Green	Homogeneous	SW	
614318-51	BP090417-51	-	**	~~	-	ns.	••	-	•••	-	en er	and a		_			Sample not analyzed. Positive stop.
614318-52	BP090417-52	2	2					the All works to broad to the late.	-			98	WG	White	Homogeneous	SW	rhadr Mrus dyks vyddibyyddi
614318-53	BP090417-53	4	4	-	-			-	-		**	96	FT	Multi	Homogeneous	SW	resource of a confidence
614318-54	BP090417-54	5	5		S-66	MA.	- referenced to a referenced to a	**************************************	-			95	MS	Black	Homogeneous	sw	AND THE PARTY OF T
614318-55	BP090417-55		Arm			**	Parameter Annual Strands of Stran		**************************************		#W	interest of the second	as comment about Mr. o		n en var 7 - Shaudri di Bandrio Balli Sunto, i An Al-		Sample not analyzed. Positive stop.
614318-56	BP090417-56		au au	-					A 1944	## (MA) to Fab.	TY	- Annual Print No.	and determined the second	•	-		Sample not analyzed. Positive stop.
614318-57	BP090417-57	5	5				TR		TR	TR	zer z-zhoat le des	95	CM	Multi	Homogeneous	SW	



CERTIFICATE OF ANALYSIS

Chain of Custody: 614318

Applied Environmental, Inc.

Client: Address:

200 Fairbrook Drive

Suite 201

Herndon, VA 20170

Attention:

Bradley Pearson

Job Name: Science South

Job Location: Montgomery College - Takoma Park

Job Number: 46-19-0095

P.O. Number: Not Provided

Date Submitted:

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Date Analyzed: 04/26/2019

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04/26/2019

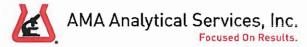
Date Sampled:

04/17/2019 - 04/18/2019

Person Submitting:

Barrett McMullan

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		Sample Type	Sample Color	Homogeneity	Analyst ID	Comments
614318-58	BP090417-58	NAD		-		_	TR	-		_		100	SLT	Gray	Homogeneous	sw	
614318-59	BP090417-59	THE STATE OF THE S	the control of the co	- """(1) AND SERVED BY AND SER	edde certain arthur (1) d'applement us, de	menghana sama kalama 1977 yan 19444 -	a With Experience Section 1997	Add to the section of the complete of the	The state of the s	national or manufacture was what reserve			The first section of the section of	man high face of man-field and	The second section of the second seco	sw	Sample not analyzed. Positive stop.
614318-60	BP090417-60	NAD		# #		Area Mahamana and Area Area Area Area Area Area Area Area	30	The second secon	30	-		40	СТ	Multi	Layered	sw	
614318-61	BP090417-61	NAD							A-rece of the sale black of the contract of		Available about the deverse. An execution	100	JC	White	Homogeneous	sw	
614318-62	BP090417-62	3	3		**					-		97	СК	Multi	Homogeneous	SW	
614318-63	BP090417-63	NAD		**			W-			-	5	95	СК	Gray	Homogeneous	SW	Anny Substitution of the Control of
614318-64	BP090417-64	NAD		virulisium manarum aman, aranium de de	MAN 1000 \$1.000 \$100 \$100 \$100 \$100 \$100 \$1	***************************************	And the service and the second specific	100 Pt 10	TOTAL STATE OF THE PROPERTY OF THE STATE OF			100	Grout	Multi	Homogeneous	sw	ATTENDED OF THE STREET
614318-65	BP090417-65	NAD		or, an an general or the plant reported a disc.		••	**			-	_	100	Grout	Gray	Homogeneous	sw	The same and a constraint of the same and
614318-66	BP090417-66	NAD		**		***	**	**	,-	_	-	100	Ads	Tan	Homogeneous	sw	
614318-67	BP090417-67	2	2	*-	***	ente	page -					98	FT	Multi	Homogeneous	sw	
614318-68	BP090417-68	5	5	*-		- Control of the Cont			**		**	95	MS	Black	Homogeneous	SW	た へくかつ タテ 44代間 かけらかか おおおかけがか おおがかかか
614318-69	BP090417-69	Andrewski Marris (MTT) 27		WITE A STATE AND A	Per muse and see the see to common personal personal see to a personal see the see of th	and the second s	AAAPA systhiftee systemid destree suurmen IA M	engagement in standard kundilar for mer filmer dans		serit un tilleretinne erfor seramomitis sott skrib	and the state of t		Taller de la companya	Server		SW	Sample not analyzed. Positive stop.
614318-70	BP090417-70		manufacture of a secondarios of the secondarios of		AA	Pols	and the second principles of the second and the sec	TT-	-	THE STATE OF THE S			- Macaracas Anthur gelgiginogia	The devices in the same		sw	Sample not analyzed. Positive stop.
614318-71	BP090417-71	NAD	THE THE PARTY OF T	### ##################################	Andrew Street, control of the Street, sometimes and the Street, someti	**		MATERIAL STATE OF THE STATE OF	60		THE RESERVE OF THE PROPERTY OF	40	LCT	Brown	Homogeneous	SW	and the second second second
614318-72	BP090417-72	NAD	And Assessed Assessed Validation	1999) di la form la Makeleranaa wemana mga	Armania da Lastina de la Siste a de la Caracia de la Carac	**************************************	www.	The second section is the second section of the second section in the second section is the second section in the second section in the second section is the second section in the second section in the second section is the second section in the second section in the second section is the second section in the second section in the second section is the second section in the second section in the second section is the second section in the second section in the second section is the second section in the second section in the second section is the second section in the second section in the second section is the second section in the second section in the second section is the second section in the second section in the second section is the second section in the second section in the second section is the second section in the second section in the second section is the second section in the second section in the second section is the second section in the second section in the second section is the second section in the second section in the second section is the second section in the second section in the second section is the second section in the second section in the second section is the second section in the second section in the second section is the second section in the second section in the second section is section in the second section in the section is section in the section in the section is section in the section in the section in the section is section in the section in the section is section in the section in the section is section in the section in the section in the section is section in the section in the section is section in the section in the section in the section is section in the section in the section in the section is section in the section in the section in the section in the section is section in the section in the section in the section is section in the section in the section in the section is section in the section in		projects to law to an abundance or received		100	SC	Black	Homogeneous	sw	a new monteness at langual, opposing
614318-73	BP090417-73	NAD	THE STATE OF THE PARTY STATE S	A Minist Phin has been been a man or the			40	THE STATE OF THE STATE OF STAT	- Are variet to be transfer to p	of Phile Whether to the same make the w	**	60	Mud	Gray	Homogeneous	sw	renavid/lea es arrive
614318-74	BP090417-74	5	5		The state of the s	NAME OF THE PARTY	TO THE REAL PROPERTY OF THE PARTY OF THE PAR		TR	THE PERSON AND ADDRESS OF THE PERSON		95	SLT	Tan	Homogeneous	SW	MITTER WALLES THE STREET



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Attention: Bradley Pearson

CERTIFICATE OF ANALYSIS

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Job Number: 46-19-0095

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04/26/2019

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04/26/2019

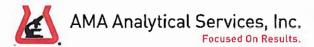
Date Sampled:

04/17/2019 - 04/18/2019

Person Submitting:

Barrett McMullan

AMA Sample Number	Client Sample Number		Chrysotile Percent	Amosite Percent	Crocidolite Percent	Other Asbestos Percent	Mineral Wool Percent	Fiberglass Percent	Organic Percent	Synthetic Percent		Particulate Percent	Sample Type	Sample Color	Homogeneity		Comments
614318-75	BP090417-75	NAD			-				_	_		100	FT	Multi	Homogeneous	sw	
614318-76	BP090417-76	3	3	marij m remegjarënj (A. (Pelagarët da) veloti la				- All of the property of the section		-	Plane like to comment or company aggre	97	MS	Black	Homogeneous	sw	
614318-77	BP090417-77	3	3					_			***	97	СК	Multi	Homogeneous	sw	PROCESS CHIEFLAND AND AND AND AND AND AND AND AND AND
614318-78	BP090417-78	NAD	wherethe debases were assume the fight \$1.00	- Ballion and and	an ilin helder allegation and allegations and an ilinear an ilinear and an ilinear an ilinear an ilinear and an ilinear an ilinear an ilinear and an ilinear an ilinear and an ilinear an ilinear an ilinear and an ilinear an ilinear an ilinear an ilinear an il	_	40					60	Mud	Gray	Homogeneous	sw	Hardware hi ald resemption of the project to
614318-79	BP090417-79	NAD			v I de una austroprojektischischischischischischischischischisch		40	I seem maratuste printered, elithered access	THE SHARE SHOW AND	and control of the co	s should be or and the or an exception by set	60	Mud	Gray	Homogeneous	sw	
614318-80	BP090417-80	NAD	10 mm - 10 mm			and the state of t						100	WG	Gray	Homogeneous	sw	**Provided address for the management A + p
614318-81	BP090417-81	NAD	en	THE COMMERCE SERVED PLANSAGE	PRE_101-001-01-01-01-01-01-01-01-01-01-01-01	THE BUTTE, BRIEF SET PUTTE STATE AND	20	THE	40	CENTRAL DESIGNATION OF THE ANALYSIS OF THE ANA		40	CT	Multi	Layered	sw	r vestalaki kelanda musimmenanya salaka
614318-82	BP090417-82	NAD		Manager - Property St. St. St.		THE STREET STREET, STR	40	The state of the s	WATER THE BOOK SHARE AND STATE		dedicine recepting posterior.	60	Mud	Gray	Homogeneous	SW	CP-REAL SCHOOL-SANSALA SELECTION
614318-83	BP090417-83	NAD	the face of the section of the secti		ee. Millied , Andrie Pie Mediumely		- N. Maringary (Marin		****		**************************************	100	FT	Beige	Homogeneous	sw	Makes the Property of the Control of
614318-84	BP090417-84	4	4	in an annual service of the service	Managaragagagangan (alabahan 16 Adalahan)	m har meneng pagnagan pagna kenala sabah Pada kacaman	A NACONIA AND AND THE AND		TR			96	MS	Black	Homogeneous	sw	THE PERSON NAMED IN COLUMN TWO IS NOT THE PERSON NAMED IN COLUMN TWO IS NA
614318-85	BP090417-85	NAD					THE STATE OF THE S	**************************************				100	FT	Beige	Homogeneous	sw	the late of the la
614318-86	BP090417-86	PAPER AND THE STATE OF THE STAT	NA STATE AND	ng permanyang pengahangan pengahangan pengahangan pengahangan pengahangan pengahangan pengahangan pengahangan Anggar	en and an angular specific spe	a merentu pir diges (14 di	manaran na a ajajaja (a (ajaja) (ajaja		——————————————————————————————————————	ik de er en enn en enne mennegeplagte (de hav) hand 	The second secon	A PART A Consideration of the				sw	Sample not analyzed. Positive stop.
614318-87	BP090417-87	NAD		###					-		***	100	WG	Gray	Homogeneous	sw	are extract and the distributions are
614318-88	BP090417-88	NAD					20		40			40	СТ	Multi	Layered	sw	read was above measures or managerery months about the
614318-89	BP090417-89	NAD	_	aparagram temperatura di sub-difficial con				-	10			90	MS	Tan	Homogeneous	sw	er electrica ser al es au salida afraño a accessora aproxe
614318-90	BP090417-90	NAD		**					10	_		90	MS	Tan	Homogeneous	sw	
614318-91	BP090417-91	NAD	-		_	-				-		100	CK	White	Homogeneous	SW	
614318-92	BP090417-92	3	3	**************************************	-	40 F1868844 "Tile larkehaves man a wyv y		ELAN ARAMERIKAN PENTANDAN PERSANDAN PENTANDAN	- A Berrell - Address of man men sys	engers yegying varietikamakimi sama		97	СК	Gray	Homogeneous	SW	Portor PH SMESS V Indian



Client: Applied Environmental, Inc.

Address:

200 Fairbrook Drive

Suite 201

Herndon, VA 20170

Attention:

Bradley Pearson

CERTIFICATE OF ANALYSIS

Job Name: Science South

Job Location: Montgomery College - Takoma Park

Job Number: 46-19-0095

P.O. Number: Not Provided

Date Submitted:

04/22/2019

Date Analyzed:

04/26/2019

Report Date:

04/26/2019

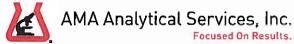
Date Sampled:

04/17/2019 - 04/18/2019

Person Submitting:

Barrett McMullan

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		Particulate Percent	Sample Type	Sample Color	Homogeneity	Analyst ID	
614318-93	BP090417-93	-	-		-				-	-	-	-	-		<u>-</u>	sw	Sample not analyzed. Positive stop.
614318-94	BP090417-94	NAD	-	***	**			**	-			100	Ads	Yellow	Homogeneous	sw	
614318-95	BP090417-95	NAD				_		_	_	n=		100	Ads	Yellow	Homogeneous	sw	
614318-96	BP090417-96	NAD								**	-	100	FT	Cream	Homogeneous	sw	
614318-97	BP090417-97	4	4		7.7		**	**	TR	**		96	MS	Black	Homogeneous	sw	
614318-98	BP090417-98	NAD	_	-	44	Pr-V	44.16		-	_		100	FT	Cream	Homogeneous	sw	
614318-99	BP090417-99		_	-		-	46			-		-	_	_		sw	Sample not analyzed. Positive stop.
614318-100	BP090417-100	3	3	***	AC WARE A STREET AND A STREET A	4 Propint Hibbs delicities de la commence recommendades	galayd P _a yles y hallahadiddin _{ar} ramannan a tana anna annagrae, also alg	AND CONTRACTOR AND CONTRACTOR CON	TOWNS OF STREET, STREE	Programme A State of	**	97	FT	Gray	Homogeneous	sc	- The state of the
614318-101	BP090417-101	2	2	_	No. and the Control of the Control o	-		and the second s		_	**	98	MS	Black	Homogeneous	sc	The second secon
614318-102	BP090417-102		AP.	er tuding the in the in the distribution will a make	The second section of the second seco	-		***	**		-	-	* Trees * The State of the Control o			SC	Sample not analyzed. Positive Stop
614318-103	BP090417-103			de la		- Суд бүй бай бай ой бай бай бай бай бай бай бай бай бай ба	en e general de la commune	Market (Market Shaket S	The second secon	41 879	**	and the second s				SC	Sample not analyzed. Positive Stop
614318-104	BP090417-104	20	20	****	-		-	**	••	-		80	MS	Brown	Homogeneous	SC	
614318-105	BP090417-105		The Angelian Politica are foliament assessment grows	AM, gift grift yn dy'r yn dy'r yn diwir de dawlan diwir yn glynn y gan y g Speirius	##	and the second s		American Application of the Street, and Application of the Str	Market	Michigan Shark and American Am	erregion de presidente de Palando en esta de Palando de America de Palando de America de Palando de America de	Accommonwealth and the sep first copy of principal principal and the sep first copy of principal and t				SC	Sample not analyzed. Positive Stop



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Bradley Pearson Attention:

CERTIFICATE OF ANALYSIS

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Job Location: Montgomery College - Takoma Park

Date Analyzed:

04/26/2019 04/26/2019

Job Number: 46-19-0095

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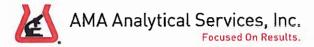
Report Date: **Date Sampled:**

04/17/2019 - 04/18/2019

Person Submitting:

Barrett McMullan

AMA Sample Number	Client Sample Number	100	Chrysotile Percent	Amosite Percent	Crocidolite Percent	Other Asbestos Percent	Mineral Wool Percent	Fiberglass Percent	Organic Percent		Other Percent		Sample Type	Sample Color	Homogeneity	ID	Comments
614318-106	BP090417-106	NAD	-			_	-	-				100	FT	Gray	Homogeneous		
614318-107	BP090417-107	NAD				_		-			_	100	MS	Tan	Homogeneous	sc	
614318-108	BP090417-108	NAD	**	magen		amounts bles me'r i briter arthelish	### (P4)	more my combas are now last one a Military of Military	- COLOR TO THE STATE OF THE STA			100	FT	Gray	Homogeneous	SC	80-200-Cov (1400ed Is 1 v abdirings/bis. problems
614318-109	BP090417-109	2	2		was a property of the state of	The property of the second section of the property of the second of the		Fifth model in the second state of the second secon				98	MŞ	Black	Homogeneous	SC	the processor and desirate for all more analysis is all
614318-110	BP090417-110	NAD				100 1000 al-skerie (komme mendamentamenta)	em reminent i bleist bet al. 118 hein 1944 (1		15	**************************************		85	DW	Multi	Layered	SC	manus Communicative Control of the St. of th
614318- 110A	BP090417-110	NAD	b. (3860BFHE) bytelih, Erus Arthu-Fil ^a rhus (Lilla while		manufacturants d'aller d'Albrédal (1964)	Stefanskripe wit et Traditioner van - um Leinimerensense	## 44 PA TO THE PARTY OF THE PA	Mitte of Michael III and Committee Committee Committee Committee Committee Committee Committee Committee Commi		der mer		100	JC	White	Homogeneous	sc	THE PERSON NAMED IN PROPERTY OF PERSONS ASSESSED.
614318-111	BP090417-111	NAD	-				-	-	15			85	DW	Multi	Layered	SC	4 Nove a rest of family and an arrangement of the family and a second of the second of the family and a second of the sec
614318- 111A	BP090417-111	NAD	etyting geller yn i mae'i frian brenn wellinaadd	•	utilitis kajad. Balahin nyi Ari Rijaby (Manadhara (Ania A		www.sc.et states and addition to complete the general property in regarding	ma ferskafter lan etw fare men namen an man	AA-W	interestation existente estatuta estatuta estatuta estatuta estatuta estatuta estatuta estatuta estatuta estatu		100	JC	White	Homogeneous	SC	and allowed transfer space and popular production of the
614318-112	BP090417-112	NAD	-				30		30			40	СТ	Multi	Layered	SC	
614318-113	BP090417-113	NAD	-				30		30		••	40	СТ	Multi	Layered	SC	
614318-114	BP090417-114	2	2			_		_				98	WG	White	Homogeneous	SC	
614318-115	BP090417-115		_					_	an .					_		SC	Sample not analyzed. Positive Stop
614318-116	BP090417-116	3	3	**	**		Bar	- Control of the State of the S		**		97	СК	Gray	Homogeneous	SC	ACCENTAGE AND STREET
614318-117	BP090417-117	Proposition of the defended at the second section of the second sec	er ger y vegette drift. Els de Brithe di T. f. de Strat Bl	menore distilicit. Net abdum Rabid	and the second systems of the second	an er som midde "Life Silder Silder Life Silder		en meneral manafilm (Manafilm). Pa B Marris B A Marris	manurables distanti saribi	man and a definition of the section	omeen vallings to blood (BA f) is is	The second secon	da de		The second secon	SC	Sample not analyzed. Positive Stop
614318-118	BP090417-118	10	10	***	AMARAMAN PARAMAN AND A 14 HOUSE, 1814 SA STANDARD		***					90	WP	Brown	Homogeneous	SC	Arbitrary 24 de valer anno Valentino



CERTIFICATE OF ANALYSIS

Chain of Custody: 614318

Applied Environmental, Inc. Client:

200 Fairbrook Drive Address:

Suite 201

Herndon, VA 20170

Attention: **Bradley Pearson**

Job Name: Science South Date Submitted:

Job Location: Montgomery College - Takoma Park

Job Number: 46-19-0095 P.O. Number: Not Provided

Date Sampled:

Date Analyzed:

Report Date:

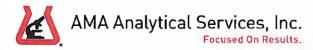
04/26/2019 04/17/2019 - 04/18/2019

04/22/2019

04/26/2019

Person Submitting: Barrett McMullan

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		Particulate Percent	Sample Type	Sample Color	Homogeneity	Analyst ID	Comment
614318-119	BP090417-119		-	~~	-	-	-	-	_	-	-	-	-	-	-	SC	Sample not analyzed. Positive Stop
614318-120	BP090417-120	NAD	***	**	AA	94	- A galanti serret nere - ere nerestata sentire sen est este.	- AA & AM ARTING & PROPERTY OF THE PROPERTY OF			5	95	CK	Gray	Homogeneous	SC	4
614318-121	BP090417-121	NAD	_		MAN	Annual Time Wild to block pill approx.	ASSE	THE THE PERSON NAMED IN COLUMN		-		100	FT	Blue	Homogeneous	PC	4"
614318-122	BP090417-122	NAD						New York of the State of the St	2		***	98	MS	Tan	Homogeneous	PC	
614318-123	BP090417-123	NAD	-	mention and the second of the second		a a para a pro- reference de la composición del composición de la	NAME OF TAXABLE PARTY OF TAXABLE PARTY OF	COLUMN TO THE STATE OF THE STAT		***		100	FT	Blue	Homogeneous	PC	
514318-124	BP090417-124	NAD	**	**	mm			**	TR	-		100	MS	Tan	Homogeneous	PC	
614318-125	BP090417-125	NAD			**	I when the second of the second of	Marie State Control of the Control o	The state of the state of the same of the			**	100	FT	Multi	Homogeneous	PC	
614318-140	BP090417-126	NAD		**					-		-	100	FT	Multi	Homogeneous	PC	
614318-141	BP090417-127	NAD	The sense recy many of the selection		ma		-	**	10	_		90	DW	Multi	Layered	PC	m manual 11 1000 at 100
614318- 141 A	BP090417-127	NAD	DOM:	And the second of the second o		And Brown to a Stand state of Water Control	••			-	-	100	JC	White	Homogeneous	PC	
614318-142	BP090417-128	NAD		-	***	- it will a sub-		well	10	THE PART OF THE PART OF THE PART OF	**	90	DW	Multi	Layered	PC	
614318- 142A	BP090417-128	NAD	-	A 101 mm	44		THE SECTION PROCESSING SECTION	adults	n=	**	-	100	JC	White	Homogeneous	PC	
614318-143	BP090417-129	NAD	-		and the second s			-	-	-		100	Grout	Gray	Homogeneous	PC	
614318-144	BP090417-130	2	2		ma	***************************************		***		_		98	Grout	Brown	Homogeneous	PC	
614318-145	BP090417-131	NAD		**		and the same of th		- To an or to both the state of	***			100	Cement	Gray	Homogeneous	PC	
614318-146	BP090417-132	NAD	_	••		-	**	-	-	-	••	100	Cement	Gray	Homogeneous	PC	rr hatnings never see
614318-147	BP090417-133	NAD	-		**			-	-	-		100	Cement	Gray	Homogeneous	PC	
614318-148	BP090417-134	NAD	-	-					_	Marie .	-	100	PL	Gray	Homogeneous	PC	
614318-149	BP090417-135	NAD					**	_	-			100	PL	Gray	Homogeneous	PC	



Client: Applied Environmental, Inc.

Address: 200 Fairbrook Drive

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Herndon, VA 20170

Attention: Bradley Pearson

CERTIFICATE OF ANALYSIS

Job Name: Science South

Job Location: Montgomery College - Takoma Park

Job Number: 46-19-0095

P.O. Number: Not Provided

Date Submitted: 04/22/2019

Date Analyzed: 04/26/2019

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Person Submitting: Barrett McMullan

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		Sample Type	Sample Color	Homogeneity	Analyst ID	Comments
614318-150	BP090417-136	NAD				-		-	-		-	100	PL	Gray	Homogeneous	PC	
614318-151	BP090417-137	NAD	-		-				-			100	PL	Gray	Homogeneous	PC	to it also taken bear
614318-152	BP090417-138	NAD			** *** P.****, NY P. T.		***		Alexan e- Mc2			100	PL	Gray	Homogeneous		
614318-153	BP090417-139	NAD	***				m.m.graf ,Maddis-11 la la r - add -same		3			97	СМ	Gray	Homogeneous	PC	
614318-154	BP090417-140	2	2			- 100 100 ut make 1	and Human and an analysis to		2	-		96	СМ	Multi	Homogeneous	PC	H Spill Structure has
614318-155	BP090417-141	NAD			**					- continues		100	Ads	Beige	Homogeneous	PC	
614318-156	BP090417-142	NAD							TR			100	Ads	Beige	Homogeneous	PC	leads to ab
614318-157	BP090417-143	NAD				-	30		30			40	CT	Multi	Layered	PC	T analysis of an
614318-158	BP090417-144	2	2				a filefo in a historia and a second					98	СК	Gray	Homogeneous		THE OPERANT WAS TO BE IN US
614318-159	BP090417-145	NAD	_			The long second to the	No.					100	Ads	Tan	Homogeneous		to the Property of the same and
614318-160	BP090417-146	NAD		-		-		**************************************		_		100	PL	White	Homogeneous		to a production of the .
614318- 160A	BP090417-146	NAD				_	-				MAD 14 PROVIDED BY 174, 16	100	BC	Brown	Homogeneous	PC	ALF MINE SUPER IN ET ETAL CTEAR
614318-161	BP090417-147	NAD			the even a few laws amen'th. Second's women as			-		-		100	PL	White	Homogeneous	PC	
614318- 161A	BP090417-147	NAD	The state of the s				Africa	- Townson and the second second second			••	100	BC	Brown	Homogeneous	PC	A handle Water collecting that of a color "Addison yet
	BP090417-148				di bilika ng ilipinipa dalah kempunyanan arawa anama	And Annual Control of the Entiry States	TO THE RESIDENCE OF THE PROPERTY OF THE PROPER					100	FT	Multi	Homogeneous	PC	Note that has been an arm has a commence
	BP090417-149				and the first grade of a second or or and a		74		-	Principles and to ggypge debutes and an angular of a		100	FT	Multi	Homogeneous	PC	ming if min a reach to to present a re-
614318-164	BP090417-150	NAD				-			TR			100	MS	Yellow	Homogeneous		7 - 1 - 1 - 1 - 1 - 1 - 1 - 1 - 1 - 1 -
614318-165	BP090417-151	NAD	_				**	-	TR			100	MS	Yellow	Homogeneous		
614318-167	BP090417-153	NAD	_					-				100	FT	Multi	Homogeneous	PC	
614318-168	BP090417-154	NAD	_			**************************************	==					100	FT	Multi	Homogeneous	PC	\$100 and \$10
614318-169	BP090417-155	NAD				a distance of the sale			TR	s of the commonwealth of the best sealers.	d 1'	100	MS	Tan	Homogeneous	PC	appropriate with a second to the



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Person Submitting:

Barrett McMullan

AMA Sample Number	Client Sample Number	Asbestos	Chrysotile Percent	Percent	Crocidolite Percent	Other Asbestos Percent	Mineral Wool Percent	Fiberglass Percent	Percent	Synthetic Percent	Other Percent	Percent	Type	Color	Homogeneity	ID	Comments
614318-170	BP090417-156	NAD			-		-		TR	-		100	MS	Tan	Homogeneous	PC	
614318-171	BP090417-157	NAD		==		-	The state of the s					100	PL	Beige	Homogeneous	PC	· · · · · · · · · · · · · · · · · · ·
614318-172	BP090417-158	NAD	_			*** ***** ****** ****** ******* *******	and the venture of th	_			and the strategic of the party	100	PL	Beige	Homogeneous	PC	Total Heritate II well madden is 1 in
614318-173	BP090417-159	NAD			-				A view resident or a 1814ga			100	PL	Beige	Homogeneous	PC	office of the second
614318-174	BP090417-160	NAD	-	4-					-			100	PL	White	Homogeneous	PC	
614318- 174A	BP090417-160	NAD	-	and annual labor.	The state of the s	and the state of t	man property (III) on many plot	The office state of the country of t	TR		to a con-	100	BC	Gray	Homogeneous	PC	Uradi e delima", de- ar pen susua
614318-175	BP090417-161	NAD	_			-	**	-				100	FT	Gray	Homogeneous	LBP	
614318-176	BP090417-162	NAD					the day of the first the terms					100	FT	Gray	Homogeneous	LBP	
614318-177	BP090417-163	NAD				_			_	THE RESERVE TO SERVE THE PARTY OF THE PARTY		100	MS	Yellow	Homogeneous	LBP	No. of the second second
614318-178	BP090417-164	NAD		-		man shranking total them of t	TOPP TRANSPORTED TO THE WAY OF THE PARTY OF	provings of the second second				100	MS	Yellow	Homogeneous	LBP	AN THE BUTTON THE HEATER AND THE STATE OF TH
614318-179	BP090417-165	2	2	-	- Language of Australia			and the state of t				98	FT	Tan	Homogeneous	LBP	
614318-180	BP090417-166	-	-					-				end of the send of	**	- Wilders & Co.	The state of the s	LBP	Sample not analyzed. Positive Stop.
614318-181	BP090417-167	2	2	-	We are an arranged and the column	may who is all the raine. An	THE STATE AND THE STATE OF THE STATE					98	MS	Black	Homogeneous	LBP	
614318-182	BP090417-168		-		-	und .	an or birgs			44	19,5 / / / / / / / / / / / / / / / / / / /	-	The state of the s	#W	y submitted that has seen a street	LBP	Sample not analyzed. Positive Stop.
614318-183	BP090417-169	NAD				Above 1	**					100	FT	Black	Homogeneous	LBP	
614318-184		NAD		**	THE PERSON NAMED IN COLUMN	ates	AT	demand a line of the control of the proper of	_	***	##	100	FT	Black	Homogeneous	LBP	The star facilities related a residence
	BP090417-171	NAD		**			The Name of Annual Annu	**************************************		aw		100	MS	Black	Homogeneous	LBP	AND THE PARTY OF T
614318-186	BP090417-172	NAD							_	/ Us /	and where the following	100	MS	Black	Homogeneous	IRP	- Allera davi - dimensioni - a s



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Person Submitting: Barrett McMullan

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614318-187	BP090417-173	NAD	-	-		-	-	-	-	-	-	100	FT	Off- White	Homogeneous	LBP	
614318-188	BP090417-174	NAD	and H	**· **	**	d sudi m dei Telinoreir		week such that some since		_	44	100	FT	Off- White	Homogeneous	LBP	RESPONDENCE MAKE IN
614318-189	BP090417-175	NAD				and the street of the street states		eren a venesasses käulikki af a defenselet			***	100	MS	Black	Homogeneous	LBP	virul some un summent d = th
	BP090417-176									***		100	MS	Black	Homogeneous	LBP	
614318-191	BP090417-177	NAD						Man	10		••	90	DW	Multi	Layered	LBP	AND THE PERSON NAMED IN CO., STORY OFFICE
614318- 191A	BP090417-177	NAD			assessment of the original contract of	nd a standardan				- A	-	100	JC	White	Homogeneous	LBP	* ** ** ******************************
	BP090417-178		THE TO SEE THE SECTION OF THE SECTIO		es ette birekt brs frameriere smalle, itele e mille	n nga g adaganganganganga prompo a namba sa Marin	er resources and and the little graphed law area	- par sa-summarument sakkak kali 16 pigging etal phopuma		mary paragraph and profess (15 day 1884)		100	Ads	Tan	Homogeneous	LBP	The second of th
	BP090417-179			••			MALLOCA A ANNIA CO DI STORY SETTE THE FRE					100	Ads	Tan	Homogeneous	LBP	
	BP090417-180		the court of the c	and the P which we'll represent the	to contracting a contractional for the grant flow sept general sept.	***********************	na. ada dangkandapakan dipelangga yapi ya pani pena, derman					100	Ads	Tan	Homogeneous	LBP	Andreas of the last of the las
614318-195	BP090417-181		PA L B - 0 Merc - ser s Laure - N		ASSEMBLATED THE MATERIAL AREAS	Manageria place frogend yle "Ar Ferne ver — Man en	AND AND THE REST OF THE PERSON		ted own-trick spacer star statuted or	nan america parese apresen paper en y coldinale		100	Ads	Brown	Homogeneous	LBP	An area your management and the second
614318-196	BP090417-182	NAD			ACTION OF THE PROPERTY OF THE	Commercial sectors of the graph of the expense	and the second second	yan magak minakada ang agaman mg		White Principles of American Conf. (b.)	1 No. 100370 - NO. 76794 - 7644 - Jan	100	Ads	Brown	Homogeneous	LBP	Albertales Annahumbun (1974 - 194
	BP090417-183	NAD	remine	_	manufacture official and described as a factor of the fact		AN division of the superiors have	They establish to the state decreases.	Annual Land of Annual Species	and the survey of the survey o	To a six and trible the co	100	Grout	Gray	Homogeneous	LBP	
614318-198	BP090417-184		er versioner version is a second section.		The state of the s	name to 1964 a Money Langua Mayor Floring a vinera	All The Control of th		effekvelithevelinens i e ses men e e min	***		100	Grout	Gray	Homogeneous	LBP	er i a d'Antibrosa de a des la secución a
	BP090417-185				- gh - q - 1996 h - 1966 h - 1							100	FS	Red	Homogeneous	LBP	- 2.007
614318-200	BP090417-186	NAD			ero a commento o de residenco.		Andrew Control of State of Sta	and a man of the state of the s				100	FS	Red	Homogeneous	LBP	was read white and the second
614318-201	BP090417-187	NAD			erauseen effekter standekindelen w	THE ASSESSMENT OF THE PARTY OF	TO THE RESERVE OF THE PROPERTY	-			***************************************	100	Ads	Tan	Homogeneous	LBP	and the second of the second basis, and the second
	BP090417-188	NAD		-	e annual for a constant washing we	and them with equilibrium to some some	Add die ty totangeny fry yer for a			_	the state of the s	100	СМ	Tan	Homogeneous	LBP	
614318-203	BP090417-189	2	2		700 V-0 1			40		tope of the sections		98	FT	Gray	Homogeneous	LBP	and and the state of the st
614318-204	BP090417-190	2	2		4E 1 FEMALES IN LIVE S YEARS	AND STREET, TO STREET, STORE LIST MAKE ST	- Ne	MEN OF PASS AND THE STATE OF TH				98	MS	Black	Homogeneous	LBP	
614318-205	BP090417-191	NAD	CONTROL AND A POST		and recommend approved 4 feet	AND COMPANY AND ALONG	on a complete section, in heaven we			you we suspect use one with the	••	100	LC	Grav	Homogeneous	LBP	dates was deferred to be a recorder



CERTIFICATE OF ANALYSIS

Chain of Custody: 614318

Client: Applied Environmental, Inc.

Address: 200 Fairbrook Drive

Suite 201

Herndon, VA 20170

Attention: **Bradley Pearson** Job Name: Science South

Job Number: 46-19-0095

P.O. Number: Not Provided

Date Submitted:

04/22/2019

Job Location: Montgomery College - Takoma Park

Date Analyzed:

04/26/2019

Report Date:

04/26/2019

Date Sampled:

04/17/2019 - 04/18/2019

Person Submitting:

Barrett McMullan

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		Sample Type	Sample Color	Homogeneity	Analyst ID	
614318-206	BP090417-192		-	-	-	-		-	-			100	СК	Gray	Homogeneous	LBP	in, are experienced
614318-207	BP090417-193						a reconstant i represe destar e produpelo per «Ci aprilege de «« i	-	**************************************		and the second section of the second sections of the second section section sections of the second section section section sections of the section	100	WPL	White	Homogeneous	LBP	THE RESIDENCE WAS AN ARREST OF THE PARTY OF
614318-208	BP090417-194	NAD	manuscript Christian St.	- Charles of the control of the control	M to	CONTROL OF THE CONTRO	pp4.0/mm, g14p345444444445444544454445444444					100	WPL		Homogeneous	LBP	Hallette (v.) Historitis (v.) Million (v.) Andrews
614318-209	BP090417-195	Quite.		-	## ### P 1 P 4 P 4 P 4 P 4 4 4		- '		60	The state of the s	-ta_title#Privense hadronesse as repr	40	Counter T.		Homogeneous	LBP	орборов и радинава багон найочно финосон на догуго
614318-210	BP090417-196			alternal distribution de la communicación de l					and			100	Counter T.	Black	Homogeneous	LBP	the Park of the Secretary Secretary

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

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): Surat Watson, Peerawut Chaikeenee, Suphin Chinnapad, Lom Butruk

Technical Director

G. Edward Carney

17 Eldy

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, NYLAP 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.

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.

AMA Analytical Services, Inc.
Focused on Results www.amalab.com
AIHA (#100470) NVLAP (#101143-0) NY ELAP (10920)
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)

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Phone #: 703-6	148-0822					5. Su	bmittee	d by:	arret	+ 1	Mull	An	S	ignature:	2-4-2	
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CERTIFICATE OF ANALYSIS

Chain of Custody: 614698

Applied Environmental, Inc.

Client: Address:

200 Fairbrook Drive

Suite 201

Herndon, VA 20170

Attention:

Bradley Pearson

Job Name: Science South

Job Location: Montgomery College - Takoma Park

Job Number: 046-19-0095

P.O. Number: Not Provided

Date Submitted:

05/13/2019

Date Analyzed: 05/14/2019

Report Date:

05/14/2019

Date Sampled:

05/10/2019

Person Submitting:

Bradley Pearson

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
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614698-3	BP190510-199	2	2		**				TR			98	SSL	Green	Homogeneous	SC	
614698-4	BP190510-200	2	2		-			-	••		-	98	SSL	Cream	Homogeneous	SC	
614698-5	BP190510-201	2	2									98	SSL	Cream	Homogeneous	sc	Hardel Product and a Mary and the my
614698-6	BP190510-202	NAD			ate to compare the desired between the first through the control of the control o				***			100	Cement	Gray	Homogeneous	sc	
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614698-9	BP190510-205	5	5	**					***************************************		2	93	SSL	Cream	Homogeneous	SC	no mandra campana na mana sa
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614698-12	BP190510-208	NAD			••		**			••		100	DM	Gray	Homogeneous	SC	
614698-13	BP190510-209	NAD				**						100	DM	Gray	Homogeneous	SC	



CERTIFICATE OF ANALYSIS

Chain of Custody: 614698

Client: Applied Environmental, Inc.

200 Fairbrook Drive Address:

Suite 201

Herndon, VA 20170

Attention: **Bradley Pearson** Job Name: Science South

P.O. Number: Not Provided

Date Submitted:

Date Analyzed:

05/13/2019

Job Location: Montgomery College - Takoma Park

Report Date:

05/14/2019

Job Number: 046-19-0095

Date Sampled:

05/14/2019 05/10/2019

Person Submitting:

Bradley Pearson

Summary of Polarized Light Microscopy

AMA	Client Sample	Total	Chrysotile	Amosite	Crocidolite	Other	Mineral	Fiberglass	Organic	Synthetic	Other	Particulate	Sample	Sample	Homogeneity	Analyst	Comments
Sample	Number	Asbestos	Percent	Percent	Percent	Asbestos	Wool	Percent	Percent	Percent	Percent	Percent	Туре	Color		ID	
Number						Percent	Percent										

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

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): Suphin Chinnapad

Technical Director

Michael Greenberg

Way

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.

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.

AMA Analytical Services, Inc.
Focused on Results www.amalab.com

Focused on Results www.amalab.com
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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) \$614698

Mailing/Billing Inform	n ation: d Environmental, Inc.						S	ubmit	ital In	forms Scie	ition: ince So	uth							***
2. Address 1: 200 Fairt	prook Drive						2	. Job	Locat	ion: N	Aontgo	mery (College	- Tako	ma Pai	rk			
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APPENDIX C

IDENTIFIED AND ASSUMED ASBESTOS-CONTAINING MATERIALS ESTIMATED QUANTITIES



Identified and Assumed Asbestos-Containing Materials Estimated Quantities

Montgomery College – Takoma Park Science South Building 7600 Takoma Avenue Takoma Park, Maryland

Material Code	Material Description	Friable (Yes/No)	Material Location	Sample Numbers	ACM (Yes/No)	Approx. Quantity*
PM1	Brown/green pin mastic holding grounding wire	NO NO DESCRIPTION OF THE PROPERTY OF THE PROPE		09, 10	30% Chrysotile	10 sf
СК2	Interior window caulk	No	Metal windows throughout	13, 144	2% Chrysotile	90 Windows
FM1	Brown mastic on FT1	No	Corridor 1C1; Janitor's Closet 120C; Office 125	97, 99	4% Chrysotile	1,205 sf
FM2	Orange mastic on FT2	No	Corridor 2C1 and 3C1; Classroom 227	21, 76	3% Chrysotile	2,812 sf
FM3	Black mastic on FT3	No	Classrooms 320, 321	18, 51	2% Chrysotile	1,282 sf
СКЗ	Gray caulk at Bridge to Science North Building No Classroom 320; Office 329		24, 192	2% Chrysotile	30 If	
SM5	Black seam mastic on foil fiberglass insulated duct	TOTAL SOUND STATE STATE OF THE		28, 59	5% Chrysotile	123 lf
FT4	12" x 12" tan floor tile with gray streaks	No	Office 325	29, 189	2% Chrysotile	295 sf
FM4	Black mastic on FT4	No	Office 325	30, 190	2% to 4% Chrysotile	295 sf
FM5	Light brown mastic on FT5	No	Kitchen 325A	33, 46	5% Chrysotile	140 sf
WG3	White, 1" exterior glazing compound	Yes	Metal windows throughout	52, 80	2% Chrysotile	90 Windows
CM2	Brown carpet mastic	No	Office 120A/B; Classroom 326; Offices 322 to 324	47, 57	5% Chrysotile	1,501 sf
FT6	9" x 9" dark green floor tile with tan/white streaks	No	Janitor's Closet 324A, 005	53, 55	4% Chrysotile	28 sf
FM6	Black mastic on FT6	Black mastic on FT6 No Janitor's Closet 324A, 54, 5		54, 56	5% Chrysotile	28 sf
FM7	Black mastic on FT7	Black mastic on FT7 No Stair 1, Stair 2 84, 86		4% Chrysotile	385 sf	
CK4	Gray/brown caulk between window/door and brick wall	NO STREET TO FRIEND LICON DATE		62, 77	3% Chrysotile	100 lf
GT1	Black ceramic cove base grout	No	Restrooms (except basement)	64, 130	2% Chrysotile	285 lf



Identified and Assumed Asbestos-Containing Materials Estimated Quantities

Montgomery College – Takoma Park Science South Building 7600 Takoma Avenue Takoma Park, Maryland

Material Code	Material Description	Friable (Yes/No)	Material Location	Sample Numbers	ACM (Yes/No)	Approx. Quantity*
FT8	12" x 12" tan floor tile with cream mottle and brick red streaks	No	Corridor and Offices 119A/B; Classroom 124; Classroom 220; Offices 221 to 223; Telecom 225A; Headhouse 224	67, 69	2% Chrysotile	3,317 sf
FM8	Black mastic on FT8	Corridor and Offices 119A/B; Classroom 124;		68, 70	5% Chrysotile	3,317 sf
СК6	Gray caulk	No	Greenhouse windows	92, 93	3% Chrysotile	1,800 If
WG2	White glazing compound	No	Operable lower metal windows	114, 115	2% Chrysotile	90 Windows
FT10	12" x 12" light gray floor tile with faint maroon streaks	No	Office 120A/B, 123, 126, 127; Classroom 120	100, 102	3% Chrysotile	1,584 sf
FM10	Black mastic on FT10	No	Office 120A/B, 123, 126, 127; Classroom 120	101, 103	2% Chrysotile	1,584 sf
РМ3	Dark brown pin mastic on fiberglass batt insulation	No	Corridor 1C1 and 2C1 at Stair 2	104, 105	20% Chrysotile	200 sf
FM11	Black mastic on FT11	No	Supply Room 121	107, 109	2% Chrysotile	83 sf
CK7	Exterior window caulk	No	Metal window walls	116, 117	3% Chrysotile	90 Windows
WP1	Brown corrugated cementitious wall panel	No	Exterior of Science North Building at bridge	118, 119	10% Chrysotile	100 sf
СМЗ	Gray (old) carpet mastic	No	Control Room 132 Planetarium 130	139, 140	2% Chrysotile	560 sf
FT16	12" x 12" tan floor tile, bottom layer	No	Facilities Lounge 003 (bottom layer)	165, 166	2% Chrysotile	442 sf
GK1	Pipe gaskets	No	Mechanical Rooms 122 and 131	Not Accessible	Assumed ACM	50 ea
FD1	Fire doors	No	All UL Listed Doors	Not Sampled	Assumed ACM	All UL Listed Doors



Identified and Assumed Asbestos-Containing Materials Estimated Quantities

Montgomery College – Takoma Park Science South Building 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*	
AD4	Adhesive behind whiteboard	No	Throughout classrooms	Sampled by client	Yes	ND	
	Cream seam mastic on white, black, and tan paper foil wrapped pipes			(white 74, 198, 201, 205)		1,690 If	
SM7		No	Throughout (except Mechanical Room 122)	(black 197, 199, 207)	2% to 5% Chrysotile		
4014		1		(tan 200, 204, 206)			

ACM = Asbestos-Containing Material

sf = square feet

If = linear feet

ea = each

ND = not determined

Bold = Identified as ACM.

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

APPENDIX C

IDENTIFIED AND ASSUMED ASBESTOS-CONTAINING MATERIALS ESTIMATED QUANTITIES



Identified and Assumed Asbestos-Containing Materials Estimated Quantities

Montgomery College – Takoma Park Science South Building 7600 Takoma Avenue Takoma Park, Maryland

Material Code	Material Description	Friable (Yes/No)	Material Location	Sample Numbers	ACM (Yes/No)	Approx. Quantity*
PM1	Brown/green pin mastic holding grounding wire	No	Mechanical Room 122; Corridor 2C1	09, 10	30% Chrysotile	10 sf
CK2	Interior window caulk	No	Metal windows throughout	13, 144	2% Chrysotile	90 Windows
FM1	Brown mastic on FT1	No	Corridor 1C1; Janitor's Closet 120C; Office 125	97, 99	4% Chrysotile	1,205 sf
FM2	Orange mastic on FT2	No	Corridor 2C1 and 3C1; Classroom 227	21, 76	3% Chrysotile	2,812 sf
FM3	Black mastic on FT3	No	Classrooms 320, 321	18, 51	2% Chrysotile	1,282 sf
CK3	Gray caulk at Bridge to Science North Building	No	Classroom 320; Office 329	24, 192	2% Chrysotile	30 lf
SM5	Black seam mastic on foil fiberglass insulated duct	No	Corridor 3C1; Offices 322 to 324	28, 59	5% Chrysotile	123 lf
FT4	12" x 12" tan floor tile with gray streaks	No	Office 325	29, 189	2% Chrysotile	295 sf
FM4	Black mastic on FT4	No	Office 325	30, 190	2% to 4% Chrysotile	295 sf
FM5	Light brown mastic on FT5	No	Kitchen 325A	33, 46	5% Chrysotile	140 sf
WG3	White, 1" exterior glazing compound	Yes	Metal windows throughout	52, 80	2% Chrysotile	90 Windows
CM2	Brown carpet mastic	No	Office 120A/B; Classroom 326; Offices 322 to 324	47, 57	5% Chrysotile	1,501 sf
FT6	9" x 9" dark green floor tile with tan/white streaks	No	Janitor's Closet 324A, 005	53, 55	4% Chrysotile	28 sf
FM6	Black mastic on FT6	No	Janitor's Closet 324A, 005	54, 56	5% Chrysotile	28 sf
FM7	Black mastic on FT7	No	Stair 1, Stair 2 84, 86		4% Chrysotile	385 sf
CK4	Gray/brown caulk between window/door and brick wall	No	Stair 2, 1C2 Entry Door	62, 77	3% Chrysotile	100 lf
GT1	Black ceramic cove base grout	No	Restrooms (except basement)	64, 130	2% Chrysotile	285 lf



Identified and Assumed Asbestos-Containing Materials Estimated Quantities

Montgomery College – Takoma Park Science South Building 7600 Takoma Avenue Takoma Park, Maryland

Material Code	Material Description	Friable (Yes/No)	Material Location	Sample Numbers	ACM (Yes/No)	Approx. Quantity*
FT8	12" x 12" tan floor tile with cream mottle and brick red streaks	No	Corridor and Offices 119A/B; Classroom 124; Classroom 220; Offices 221 to 223; Telecom 225A; Headhouse 224	67, 69	2% Chrysotile	3,317 sf
FM8	Black mastic on FT8	No	Corridor and Offices 119A/B; Classroom 124; Classroom 220; Offices 221 to 223; Telecom 225A; Headhouse 224	68, 70	5% Chrysotile	3,317 sf
CK6	Gray caulk	No	Greenhouse windows	92, 93	3% Chrysotile	1,800 lf
WG2	White glazing compound	No	Operable lower metal windows	114, 115	2% Chrysotile	90 Windows
FT10	12" x 12" light gray floor tile with faint maroon streaks	No	Office 120A/B, 123, 126, 127; Classroom 120	100, 102	3% Chrysotile	1,584 sf
FM10	Black mastic on FT10	No	Office 120A/B, 123, 126, 127; Classroom 120	101, 103	2% Chrysotile	1,584 sf
PM3	Dark brown pin mastic on fiberglass batt insulation	No	Corridor 1C1 and 2C1 at Stair 2	104, 105	20% Chrysotile	200 sf
FM11	Black mastic on FT11	No	Supply Room 121	107, 109	2% Chrysotile	83 sf
CK7	Exterior window caulk	No	Metal window walls	116, 117	3% Chrysotile	90 Windows
WP1	Brown corrugated cementitious wall panel	No	Exterior of Science North Building at bridge	118, 119	10% Chrysotile	100 sf
CM3	Gray (old) carpet mastic	No	Control Room 132 Planetarium 130	139, 140	2% Chrysotile	560 sf
FT16	12" x 12" tan floor tile, bottom layer	No	Facilities Lounge 003 (bottom layer)	165, 166	2% Chrysotile	442 sf
GK1	Pipe gaskets	No	Mechanical Rooms 122 and 131	Not Accessible	Assumed ACM	50 ea
FD1	Fire doors	No	All UL Listed Doors	Not Sampled	Assumed ACM	All UL Listed Doors



Identified and Assumed Asbestos-Containing Materials Estimated Quantities

Montgomery College – Takoma Park Science South Building 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*
AD4	Adhesive behind whiteboard	No	Throughout classrooms	Sampled by client	Yes	ND
SM7	Cream seam mastic on white, black, and tan paper foil wrapped pipes	No	Throughout (except Mechanical Room 122)	(white 74, 198, 201, 205) (black 197, 199, 207) (tan 200, 204, 206)	2% to 5% Chrysotile	1,690 lf

ACM = Asbestos-Containing Material

sf = square feet

If = linear feet

ea = each

ND = not determined

Bold = Identified as ACM.

* 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
10	2019-04-18 15:21	SCIENCE SOUTH	FIRST	111	URINAL	PORCELAIN	WHITE	INTACT	3.00 ± 0.20	mg / cm ^2
13	2019-04-18 15:28	SCIENCE SOUTH	FIRST	111	BASEBOARD	CERAMIC	BLACK	INTACT	2.20 ± 0.60	mg / cm ^2
16	2019-04-18 15:34	SCIENCE SOUTH	FIRST	111	STALL	METAL	GRAY	INTACT	0.07 ± 0.03	mg / cm ^2
25	2019-04-18 15:56	SCIENCE SOUTH	FIRST	123A	WALL	CONCRETE	YELLOW	INTACT	0.50 ± 0.30	mg / cm ^2
28	2019-04-18 15:59	SCIENCE SOUTH	FIRST	123A	WALL	CONCRETE	YELLOW	INTACT	0.80 ± 0.30	mg / cm ^2
4	2019-04-18 16:14	SCIENCE SOUTH	FIRST	119C	DOOR	METAL	BROWN	FAIR	0.14 ± 0.03	mg / cm ^2
38	2019-04-18 16:27	SCIENCE SOUTH	SECOND	222	DOOR FRAME	METAL	GRAY	INTACT	0.12 ± 0.02	mg / cm ^2
.0	2019-04-18 16:32	SCIENCE SOUTH	SECOND	BRIDGE	WALL	CONCRETE	WHITE	INTACT	1.20 ± 0.50	mg / cm ^2
2	2019-04-18 16:35	SCIENCE SOUTH	SECOND	BRIDGE	WALL	CONCRETE	WHITE	INTACT	0.60 ± 0.30	mg / cm ^2
0	2019-04-18 17:07	SCIENCE SOUTH	BASEMENT	006	WALL	CONCRETE	BEIGE	INTACT	0.60 ± 0.30	mg / cm ^2
9	2019-04-18 17:48	SCIENCE SOUTH	THIRD	330	STALL	METAL	GRAY	INTACT	0.08 ± 0.02	mg / cm ^2
1	2019-04-18 17:50	SCIENCE SOUTH	THIRD	330	URINAL	PORCELAIN	WHITE	INTACT	3.70 ± 0.20	mg / cm ^2
4	2019-04-18 17:54	SCIENCE SOUTH	THIRD	330	BASEBOARD	CERAMIC	BLACK	INTACT	2.40 ± 0.60	mg / cm ^2
6	2019-04-18 18:04	SCIENCE SOUTH	THIRD	BRIDGE	CAP	METAL	BROWN	POOR	7.00 ± 0.80	mg / cm ^2
7	2019-04-18 18:05	SCIENCE SOUTH	THIRD	BRIDGE	CAP	METAL	BROWN	POOR	2.30 ± 0.20	mg / cm ^2
9	2019-04-18 18:13	SCIENCE SOUTH	THIRD	323	DOOR FRAME	METAL	GRAY	INTACT	0.19 ± 0.03	mg / cm ^2
70	2019-04-18 18:14	SCIENCE SOUTH	THIRD	323	WALL	CONCRETE	WHITE	INTACT	0.90 ± 0.30	mg / cm ^2
2	2019-04-18 18:17	SCIENCE SOUTH	SECOND	2C1	WALL	CONCRETE	WHITE	INTACT	0.10 ± 0.03	mg / cm ^2

APPENDIX E XRF TEST DATA

XRF Test Data

Index	Time	Site	Floor	Room	Component	Substrate	Color	Condition	PbC	Units
1	2019-04-18 15:07	SCIENCE SOUTH			CALIBRATION				1.00 ± 0.10	mg/cm^2
2	2019-04-18 15:07	SCIENCE SOUTH			CALIBRATION				1.00 ± 0.10	mg/cm^2
3	2019-04-18 15:08	SCIENCE SOUTH			CALIBRATION				1.10 ± 0.10	mg/cm^2
4	2019-04-18 15:13	SCIENCE SOUTH	FIRST	120A	WALL	DRYWALL	CREAM	INTACT	0.00 ± 0.02	mg/cm^2
5	2019-04-18 15:14	SCIENCE SOUTH	FIRST	120B	WALL	DRYWALL	CREAM	INTACT	0.00 ± 0.02	mg/cm^2
6	2019-04-18 15:15	SCIENCE SOUTH	FIRST	120B	WALL	DRYWALL	WHITE	INTACT	0.00 ± 0.02	mg/cm^2
7	2019-04-18 15:16	SCIENCE SOUTH	FIRST	120B	DOOR FRAME	METAL	WHITE	INTACT	0.00 ± 0.02	mg/cm^2
8	2019-04-18 15:18	SCIENCE SOUTH	FIRST	1C1 @ 120C	WALL	CONCRETE	WHITE	INTACT	0.00 ± 0.02	mg/cm^2
9	2019-04-18 15:20	SCIENCE SOUTH	FIRST	111	SINK	PORCELAIN	WHITE	INTACT	0.02 ± 0.02	mg/cm^2
10	2019-04-18 15:21	SCIENCE SOUTH	FIRST	111	URINAL	PORCELAIN	WHITE	INTACT	3.00 ± 0.20	mg/cm^2
11	2019-04-18 15:24	SCIENCE SOUTH	FIRST	111	FLOOR	CERAMIC	BLUE	INTACT	0.02 ± 0.02	mg/cm^2
12	2019-04-18 15:26	SCIENCE SOUTH	FIRST	111	FLOOR	CERAMIC	GREEN	INTACT	0.01 ± 0.02	mg/cm^2
13	2019-04-18 15:28	SCIENCE SOUTH	FIRST	111	BASEBOARD	CERAMIC	BLACK	INTACT	2.20 ± 0.60	mg/cm^2
14	2019-04-18 15:29	SCIENCE SOUTH	FIRST	111	CEILING	PLASTER	WHITE	INTACT	0.01 ± 0.02	mg/cm^2
15	2019-04-18 15:31	SCIENCE SOUTH	FIRST	111	CEILING	PLASTER	WHITE	INTACT	0.02 ± 0.02	mg/cm^2
16	2019-04-18 15:34	SCIENCE SOUTH	FIRST	111	STALL	METAL	GRAY	INTACT	0.07 ± 0.03	mg/cm^2
17	2019-04-18 15:37	SCIENCE SOUTH	FIRST	1C1	DOOR	METAL	GRAY	INTACT	0.00 ± 0.02	mg/ cm ^2
18	2019-04-18 15:39	SCIENCE SOUTH	FIRST	1C1	DOOR FRAME	METAL	GRAY	INTACT	0.00 ± 0.02	mg/cm^2
19	2019-04-18 15:42	SCIENCE SOUTH	FIRST	STAIR 1	TREAD	CONCRETE	GRAY	FAIR	0.00 ± 0.02	mg/cm^2
20	2019-04-18 15:44	SCIENCE SOUTH	FIRST	STAIR 1	TREAD	CONCRETE	GRAY	FAIR	0.00 ± 0.02	mg/ cm ^2
21	2019-04-18 15:46	SCIENCE SOUTH	FIRST	124	WALL	CONCRETE	WHITE	INTACT	0.00 ± 0.02	mg/ cm ^2
22	2019-04-18 15:47	SCIENCE SOUTH	FIRST	124	COLUMN	CONCRETE	WHITE	INTACT	0.00 ± 0.02	mg/ cm ^2
23	2019-04-18 15:48	SCIENCE SOUTH	FIRST	124	PIPE	METAL	WHITE	INTACT	0.06 ± 0.02	mg/ cm ^2
24	2019-04-18 15:53	SCIENCE SOUTH	FIRST	124	WALL	WOOD	WHITE	INTACT	0.00 ± 0.02	mg/ cm ^2
25	2019-04-18 15:56	SCIENCE SOUTH	FIRST	123A	WALL	CONCRETE	YELLOW	INTACT	0.50 ± 0.30	mg/ cm ^2
26	2019-04-18 15:58	SCIENCE SOUTH	FIRST	123A	WALL	CONCRETE	YELLOW	INTACT	0.00 ± 0.02	mg/ cm ^2
27	2019-04-18 15:58	SCIENCE SOUTH	FIRST	123A	WALL	CONCRETE	YELLOW	INTACT	0.00 ± 0.02	mg/ cm ^2
28	2019-04-18 15:59	SCIENCE SOUTH	FIRST	123A	WALL	CONCRETE	YELLOW	INTACT	0.80 ± 0.30	mg/ cm ^2
29	2019-04-18 16:02	SCIENCE SOUTH	FIRST	119	WALL	CONCRETE	BEIGE	INTACT	0.01 ± 0.02	mg/ cm ^2
30	2019-04-18 16:04	SCIENCE SOUTH	FIRST	119	WALL	WOOD	GRAY	INTACT	0.00 ± 0.02	mg/cm^2
31	2019-04-18 16:06	SCIENCE SOUTH	FIRST	119	FLOOR	CONCRETE	GRAY	FAIR	0.00 ± 0.02	mg/cm^2
32	2019-04-18 16:08	SCIENCE SOUTH	FIRST	119	DOOR FRAME	METAL	BROWN	FAIR	0.01 ± 0.02	mg/cm^2
33	2019-04-18 16:10	SCIENCE SOUTH	FIRST	119A	WALL	CONCRETE	BEIGE	INTACT	0.00 ± 0.02	mg/cm^2
34	2019-04-18 16:14	SCIENCE SOUTH	FIRST	119C	DOOR	METAL	BROWN	FAIR	0.14 ± 0.03	mg/cm^2

XRF Test Data

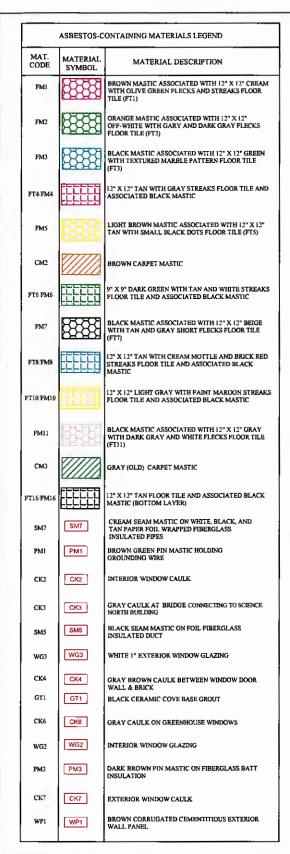
Index	Time	Site	Floor	Room	Component	Substrate	Color	Condition	PbC	Units
35	2019-04-18 16:16	SCIENCE SOUTH	FIRST	119C	DOOR FRAME	METAL	BROWN	FAIR	0.07 ± 0.02	mg/ cm ^2
36	2019-04-18 16:17	SCIENCE SOUTH	FIRST	119C	WINDOW	METAL	BROWN	FAIR	0.01 ± 0.02	mg/cm^2
37	2019-04-18 16:25	SCIENCE SOUTH	SECOND	222	WALL	CONCRETE	WHITE	INTACT	0.01 ± 0.02	mg/cm^2
38	2019-04-18 16:27	SCIENCE SOUTH	SECOND	222	DOOR FRAME	METAL	GRAY	INTACT	0.12 ± 0.02	mg/cm^2
39	2019-04-18 16:28	SCIENCE SOUTH	SECOND	220	DOOR FRAME	METAL	GRAY	INTACT	0.03 ± 0.02	mg/cm^2
40	2019-04-18 16:32	SCIENCE SOUTH	SECOND	BRIDGE	WALL	CONCRETE	WHITE	INTACT	1.20 ± 0.50	mg/cm^2
41	2019-04-18 16:33	SCIENCE SOUTH	SECOND	BRIDGE	WALL	CONCRETE	WHITE	INTACT	0.00 ± 0.02	mg/cm^2
42	2019-04-18 16:35	SCIENCE SOUTH	SECOND	BRIDGE	WALL	CONCRETE	WHITE	INTACT	0.60 ± 0.30	mg/cm^2
43	2019-04-18 16:45	SCIENCE SOUTH			VOID				0.60 ± 0.30	mg/cm^2
44	2019-04-18 16:47	SCIENCE SOUTH	SECOND	220	WALL	CONCRETE	WHITE	INTACT	0.03 ± 0.02	mg/cm^2
45	2019-04-18 16:56	SCIENCE SOUTH	BASEMENT	005A	WALL	CONCRETE	WHITE	INTACT	0.00 ± 0.02	mg/cm^2
46	2019-04-18 16:58	SCIENCE SOUTH	BASEMENT	005A	FLOOR	CONCRETE	GRAY	INTACT	0.00 ± 0.02	mg/cm^2
47	2019-04-18 17:00	SCIENCE SOUTH	BASEMENT	006	WALL	DRYWALL	WHITE	INTACT	0.00 ± 0.02	mg/cm^2
48	2019-04-18 17:02	SCIENCE SOUTH	BASEMENT	006	DOOR FRAME	METAL	GRAY	INTACT	0.03 ± 0.02	mg/cm^2
49	2019-04-18 17:03	SCIENCE SOUTH	BASEMENT	006	DOOR	METAL	GRAY	INTACT	0.04 ± 0.02	mg/cm^2
50	2019-04-18 17:07	SCIENCE SOUTH	BASEMENT	006	WALL	CONCRETE	BEIGE	INTACT	0.60 ± 0.30	mg/cm^2
51	2019-04-18 17:12	SCIENCE SOUTH	BASEMENT	003	FLOOR	CERAMIC	BEIGE	INTACT	0.00 ± 0.02	mg/cm^2
52	2019-04-18 17:13	SCIENCE SOUTH	BASEMENT	001	FLOOR	CERAMIC	BEIGE	INTACT	0.00 ± 0.02	mg/cm^2
53	2019-04-18 17:16	SCIENCE SOUTH	BASEMENT	003	BEAM	METAL	WHITE	INTACT	0.04 ± 0.02	mg/cm^2
54	2019-04-18 17:16	SCIENCE SOUTH	BASEMENT	003	BEAM	METAL	WHITE	INTACT	0.02 ± 0.03	mg/cm^2
55	2019-04-18 17:16	SCIENCE SOUTH	BASEMENT	003	BEAM	METAL	WHITE	INTACT	0.03 ± 0.02	mg/cm^2
56	2019-04-18 17:33	SCIENCE SOUTH	BASEMENT	001	SINK	PORCELAIN	WHITE	INTACT	0.00 ± 0.02	mg/cm^2
57	2019-04-18 17:34	SCIENCE SOUTH	BASEMENT	001	URINAL	PORCELAIN	WHITE	INTACT	0.01 ± 0.02	mg/cm^2
58	2019-04-18 17:35	SCIENCE SOUTH	BASEMENT	001	STALL	METAL	GRAY	INTACT	0.00 ± 0.02	mg/cm^2
59	2019-04-18 17:48	SCIENCE SOUTH	THIRD	330	STALL	METAL	GRAY	INTACT	0.08 ± 0.02	mg/cm^2
60	2019-04-18 17:49	SCIENCE SOUTH	THIRD	330	SINK	PORCELAIN	WHITE	INTACT	0.02 ± 0.02	mg/cm^2
61	2019-04-18 17:50	SCIENCE SOUTH	THIRD	330	URINAL	PORCELAIN	WHITE	INTACT	3.70 ± 0.20	mg/cm^2
62	2019-04-18 17:52	SCIENCE SOUTH	THIRD	330	FLOOR	CERAMIC	BLUE	INTACT	0.02 ± 0.02	mg/cm^2
63	2019-04-18 17:53	SCIENCE SOUTH	THIRD	330	FLOOR	CERAMIC	GREEN	INTACT	0.01 ± 0.02	mg/cm^2
64	2019-04-18 17:54	SCIENCE SOUTH	THIRD	330	BASEBOARD	CERAMIC	BLACK	INTACT	2.40 ± 0.60	mg/cm^2
65	2019-04-18 18:01	SCIENCE SOUTH	THIRD	3C1	WALL	CONCRETE	WHITE	INTACT	0.00 ± 0.02	mg/cm^2
66	2019-04-18 18:04	SCIENCE SOUTH	THIRD	BRIDGE	CAP	METAL	BROWN	POOR	7.00 ± 0.80	mg/cm^2
67	2019-04-18 18:05	SCIENCE SOUTH	THIRD	BRIDGE	CAP	METAL	BROWN	POOR	2.30 ± 0.20	mg/cm^2
68	2019-04-18 18:10	SCIENCE SOUTH	THIRD	325A	DOOR FRAME	METAL	GRAY	INTACT	0.07 ± 0.02	mg/cm^2

XRF Test Data

Index	Time	Site	Floor	Room	Component	Substrate	Color	Condition	PbC	Units
69	2019-04-18 18:13	SCIENCE SOUTH	THIRD	323	DOOR FRAME	METAL	GRAY	INTACT	0.19 ± 0.03	mg/cm^2
70	2019-04-18 18:14	SCIENCE SOUTH	THIRD	323	WALL	CONCRETE	WHITE	INTACT	0.90 ± 0.30	mg/cm^2
71	2019-04-18 18:16	SCIENCE SOUTH	SECOND	2C1	WALL	CONCRETE	WHITE	INTACT	0.00 ± 0.02	mg/cm^2
72	2019-04-18 18:17	SCIENCE SOUTH	SECOND	2C1	WALL	CONCRETE	WHITE	INTACT	0.10 ± 0.03	mg/cm^2
73	2019-04-18 18:19	SCIENCE SOUTH	SECOND	226	DOOR FRAME	METAL	GRAY	INTACT	0.04 ± 0.02	mg/cm^2
74	2019-04-18 18:21	SCIENCE SOUTH			CALIBRATION				1.00 ± 0.10	mg/cm^2
75	2019-04-18 18:22	SCIENCE SOUTH			CALIBRATION				1.10 ± 0.10	mg/cm^2
76	2019-04-18 18:23	SCIENCE SOUTH			CALIBRATION				1.10 ± 0.10	mg/ cm ^2

APPENDIX F

DRAWINGS





NOTES:

 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.

SM7

THE ASBESTOS-CONTAINING CREAM SEAM MASTIC ON WHITE,
BLACK, AND TAN PAPER FOIL WRAPPED FIBERGLASS INSULATED
PIPES WERE OBSERVED THROUGHOUT THE BUILDING

CK2
THE ASBESTOS-CONTAINING INTERIOR AND EXTERIOR WINDOW
CAULKS WERE OBSERVED THROUGHOUT THE WINDOWS OF THE
BUILDING

WG2 THE ASBESTOS-CONTAINING INTERIOR AND EXTERIOR WINDOW GLAZINGS WERE OBSERVED THROUGHOLT THE WINDOWS OF

00 SAMPLE NOT ANALYZED (POSITIVE STOP)

ADHESIVE BEHIND WHITEBOARD WAS SAMPLED BY THE
CLIENT AND IDENTIFIED AS ASBESTOS-CONTAINING
MATERIAL THIS MATERIAL WAS OBSERVED THROUGOUT THE
CLASSPOOMS

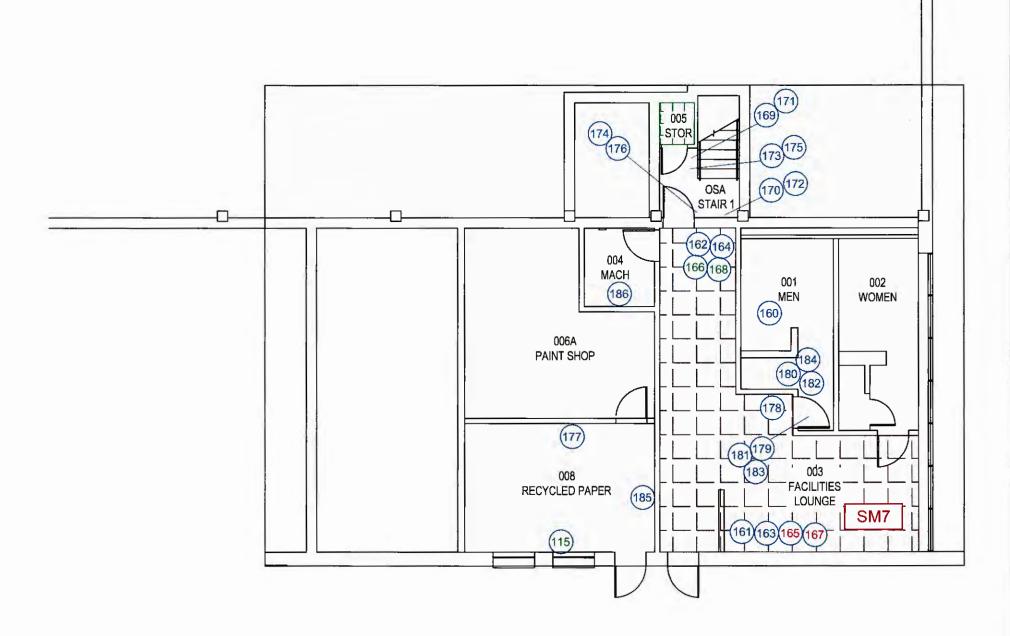




FIGURE 1
ASBESTOS SURVEY



TAKOMA PARK/SILVER SPRING
CAMPUS

SCIENCE SOUTH
BASEMENT

SURVEY DATE

APRIL 17 & 18, 2019

PROJECT NO.

046-19-0095

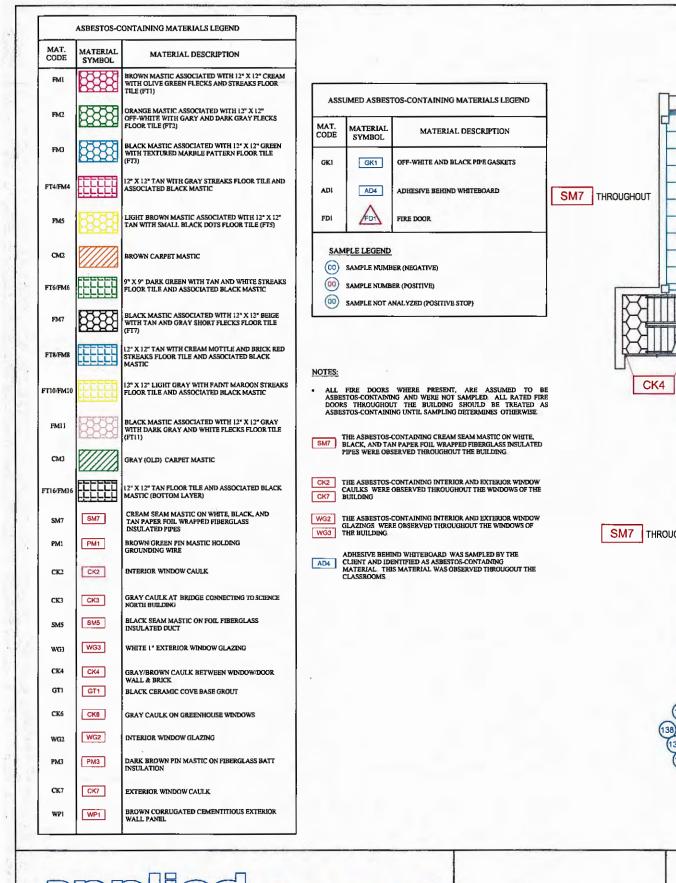
SHEET 1 OF 4

DRAWN BY OAS

DATE

05-24-2019

200 FAIRBROOK DRIVE, SUITE 201, HERNDON, VA 20170



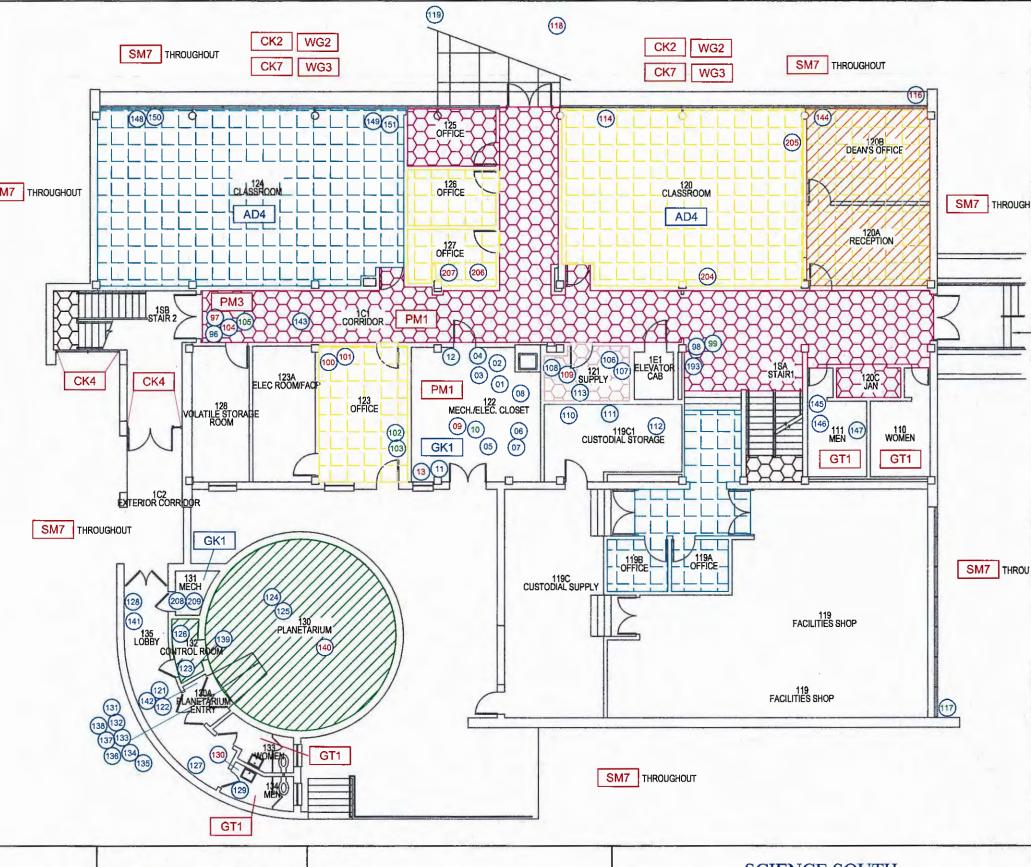




FIGURE 1
ASBESTOS SURVEY



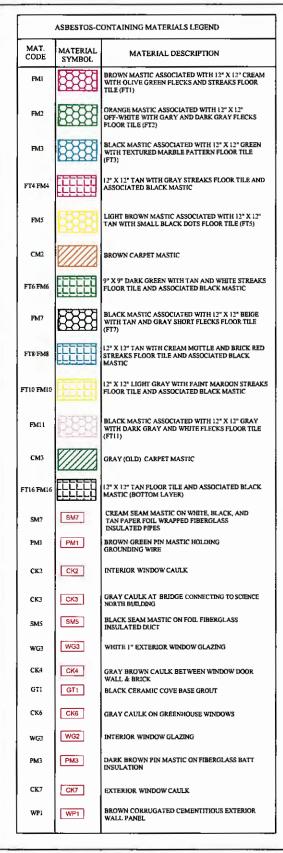
TAKOMA PARK/SILVER SPRING
CAMPUS

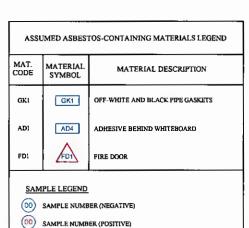
st

SCIENCE SOUTH FIRST FLOOR

SURVEY DATE PROJECT NO. 046-19-0095

SHEET 2 OF 4 DRAWN BY OAS DATE 05-24-2019





NOTES:

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 ASBESTOS-CONTAINING CREAM SEAM MASTIC ON WHITE,
BLACK, AND TAN PAPER FOIL WRAPPED FIBERGLASS INSULATED
PIPES WERE OBSERVED THROUGHOUT THE BUILDING

00 SAMPLE NOT ANALYZED (POSITIVE STOP)

CK2 THE ASBESTOS-CONTAINING INTERIOR AND EXTERIOR WINDOW CAULKS WERE OBSERVED THROUGHOUT THE WINDOWS OF THE BUILDING

WG2 THE ASBESTOS-CONTAINING INTERIOR AND EXTERIOR WINDOW GLAZINGS WERE OBSERVED THROUGHOUT THE WINDOWS OF THE BUILDING

AD4 STROME AT THE WATERIAL WAS OBSERVED THROUGOUT THE CASE OF A STROME OF A ST

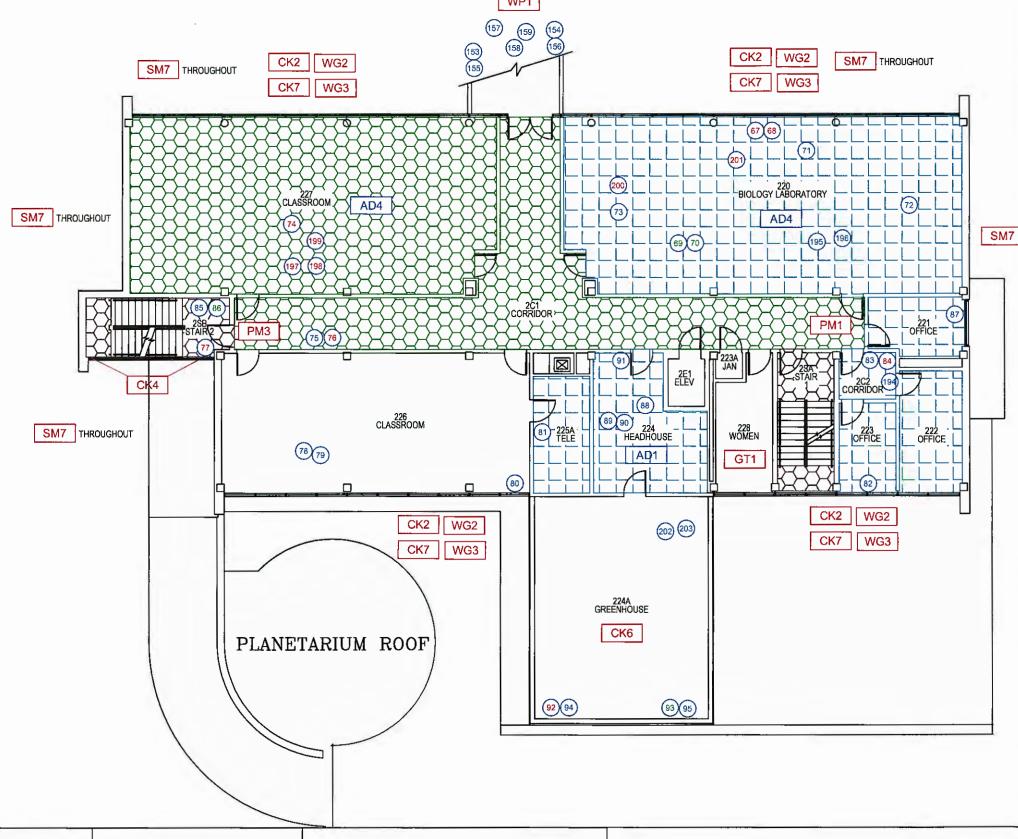




FIGURE 1 **ASBESTOS SURVEY**

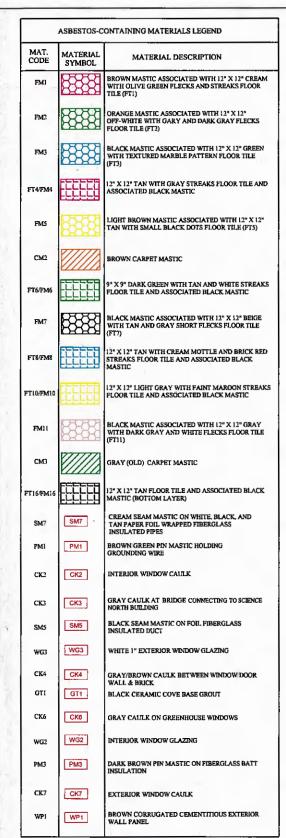


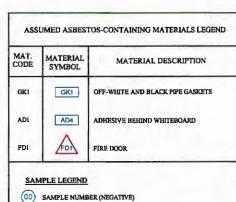
TAKOMA PARK/SILVER SPRING **CAMPUS**

SCIENCE SOUTH SECOND FLOOR

SURVEY DATE PROJECT NO. APRIL 17 & 18, 2019 046-19-0095 DATE SHEET DRAWN BY 3 OF 4 OAS 05-24-2019

200 FAIRBROOK DRIVE, SUITE 201, HERNDON, VA 20170





OO SAMPLE NUMBER (POSITIVE)

(00) SAMPLE NOT ANALYZED (POSITIVE STOP)

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 ASBESTOS-CONTAINING CREAM SEAM MASTIC ON WHITE, BLACK, AND TAN PAPER FOIL WRAPPED FIBERGLASS INSULATED PIPES WERE OBSERVED THROUGHOUT THE BUILDING.

CK2 THE ASBESTOS-CONTAINING INTERIOR AND EXTERIOR WINDOW CAULKS WERE OBSERVED THROUGHOUT THE WINDOWS OF THE CK7 BUILDING

WG2 THE ASBESTOS-CONTAINING INTERIOR AND EXTERIOR WINDOW GLAZINGS WERE OBSERVED THROUGHOUT THE WINDOWS OF THE BUILDING.

AD4

AD4

CLIENT AND IDENTIFIED AS ASSESTOS-CONTAINING MATERIAL. THIS MATERIAL WAS OBSERVED THROUGOUT THE CLASSROOMS

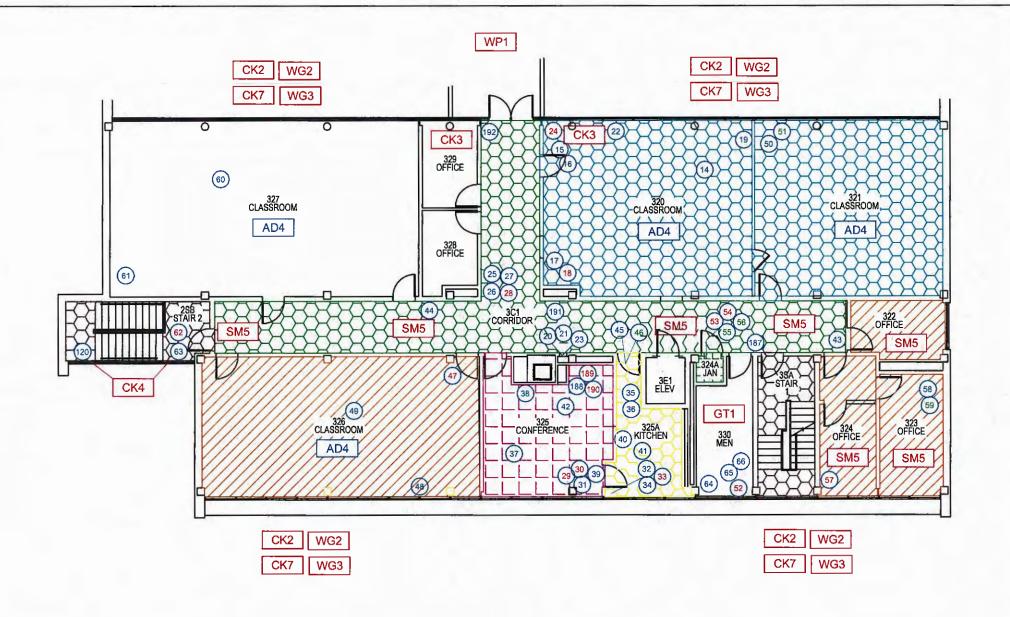




FIGURE 1 ASBESTOS SURVEY



TAKOMA PARK/SILVER SPRING **CAMPUS**

SCIENCE SOUTH THIRD FLOOR

SURVEY DATE PROJECT NO. APRIL 17 & 18, 2019 046-19-0095 DATE DRAWN BY 4 OF 4 OAS 05-24-2019

200 FAIRBROOK DRIVE, SUITE 201, HERNDON, VA 20170