AHERA - THREE YEAR REINSPECTION



JAMES K POLK ES

5000 POLK AVENUE
ALEXANDRIA, VIRGINIA 22304

ECS PROJECT NO. 47:11652-E4-11

FOR: ALEXANDRIA CITY PUBLIC SCHOOLS

SEPTEMBER 2, 2025

September 2, 2025

Mr. Lee Conroy
Alexandria City Public Schools
1711 North Beauregard Street
Alexandria, Virginia 22311

ECS Project No. 47:11652-E4-11

Reference: AHERA - Three Year Reinspection, James K Polk ES, 5000 Polk Avenue, Alexandria, Virginia

Dear Mr. Conroy:

ECS Mid-Atlantic, LLC (ECS) is pleased to provide Alexandria City Public Schools with the results of the above referenced AHERA - Three Year Reinspection performed at James K Polk ES located at 5000 Polk Avenue in Alexandria, Virginia.

Previous asbestos surveys of the school identified asbestos-containing materials. ECS performed a walk through of the school to observe present conditions. The following materials were observed to be damaged at the time of the site visit:

- **9" x 9" Gray and White Floor Tile and associated Mastic located in the doorway of the Cafeteria Office was observed as damaged.**

This report summarizes our observations, findings, and recommendations related to the work performed. The work described in this report was performed by ECS in general accordance with the Scope of Services described in ECS Proposal Number 47:39012-EP and the terms and conditions of the agreement authorizing those services.

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

Sincerely,

ECS Mid-Atlantic, LLC

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Environmental Senior Project Manager
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1.0 SITE DESCRIPTION

The subject property consists of James K Polk ES, a two-story brick school building located at 5000 Polk Avenue in Alexandria, Virginia. The school was originally constructed in 1965 and encompasses approximately 82,752 square feet. The building has been improved with various renovations and additions throughout its service. Building finishes observed included concrete sub-floors, vinyl floor tiles, carpet, and/or ceramic tiles; the wall systems appeared to generally consist of concrete masonry unit (CMU) block walls, drywall wallboard, and/or ceramic wall tiles; and the ceiling systems appeared to generally consist of suspended drop ceilings with ceiling tiles and some plaster finishes.

Based on a review of historical documentation, the following materials were previously identified as asbestos-containing and have since been abated.

- Asbestos-containing Floor Tiles and associated Mastic were abated from Rooms 23-39, 41, the hallway from the main level, the hallway from the lower level, and the northern staircase in 2021 (reference ECS Project No. 47:11652-G).

Note: Based on the age of the structure, it is likely that asbestos insulation on piping and ductwork is present and concealed behind solid walls/above solid ceilings. Floor tile and mastic is also assumed to be also present throughout the school, even in areas where it was reported abated (concealed under fixtures such as cabinets etc.).

2.0 PURPOSE

The purpose of this Asbestos Hazard Emergency Response Act (AHERA) three-year re-inspection of asbestos-containing materials was to assess previously identified asbestos-containing building materials (ACBMs) present on the subject property. The survey was performed on the interior areas of the subject building. This survey is intended to provide a supporting document for the AHERA management plan.

3.0 METHODOLOGY

ECS performed the authorized Scope of Services in general accordance with our proposal, standard industry practice(s) and methods specified by regulation(s) for the identification of Asbestos-Containing Materials (ACMs).

3.1 Asbestos Re-Inspection

The AHERA re-inspection survey was performed by David Stambaugh, a Virginia licensed asbestos inspector (license number 3303005057) who has received EPA-accredited training.

Before conducting the re-inspection, ECS reviewed existing inspection reports and then walked through areas where previously friable or non-friable ACBM were reported to be located, including assumed materials.

The scope of work for the re-inspection included the following items:

- Review the existing management plan to determine the areas requiring re-inspection.

- Visually reinspect and reassess the condition of known or assumed friable ACBM.
- Visually reinspect known or assumed non-friable ACBM and determine if it has become friable.
- Identify homogeneous areas that have changed conditions since previous re-inspections.
- Identify renovations or new materials that have been added to the building since the previous inspection.

At the request of the client, ECS did not sample additional materials during this inspection.

4.0 RESULTS

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

4.1 Asbestos-Containing Materials

An Asbestos-Containing Material (ACM) is defined as any material containing more than one percent (>1%) asbestos as determined using the method specified in Appendix E, Subpart E, 40 CFR Part 763, Section 1, PLM. Materials are categorized by the U.S. EPA in the following categories:

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

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

A table of previously identified ACBM in the building is appended to this report. ECS notes the following ACMs were observed to be damaged during the site reconnaissance.

- **9" x 9" Gray and White Floor Tile and associated Mastic located in the doorway of the Cafeteria Office was observed as damaged.**

5.0 RECOMMENDATIONS AND REGULATORY REQUIREMENTS

Based on our understanding of the purpose of the AHERA - Three Year Reinspection, and our findings and observations, ECS presents the following recommendations.

5.1 Asbestos-Containing Materials

ECS recommends the 9" x 9" Gray and White Floor Tile and associated Mastic observed in the doorway of the Cafeteria Office be abated by a Virginia licensed asbestos abatement contractor.

If ACMs are to be removed, it is recommended that an industrial hygienist monitor the project. This involves collecting air samples from within and outside abatement work areas to monitor the asbestos abatement contractor's work practices over the course of the project. Only after the industrial hygienist has determined the identified ACMs have been removed should final clearance air samples be collected.

For any future renovation project, a more in-depth survey should be performed for asbestos in the path of construction. Where asbestos is found, an asbestos abatement plan should be prepared by an accredited professional as outlined in AHERA prior to performing any asbestos removal work.

The results of this survey should be added to the school's AHERA management plan.

6.0 LIMITATIONS

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

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

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

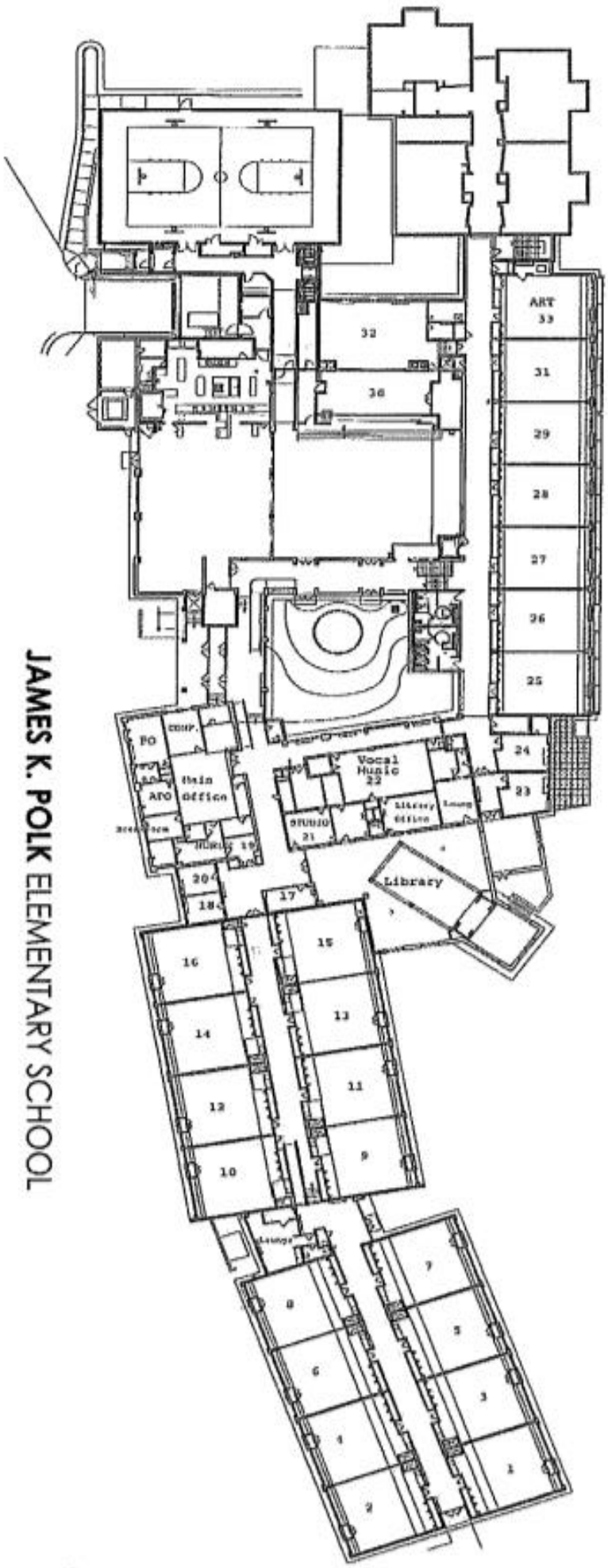
Appendix I: AHERA ACBM Tables

MATERIAL	LOCATION	FRIABILITY	CONDITION	COMMENTS	LAST INSPECTION DATE	RECOMMENDATION	SEMI-ANNUAL INSPECTION DATE	REMARKS
MATERIALS REPORTED AS ASBESTOS-CONTAINING MATERIALS ON PRIOR SURVEYS								
TSI-Mudded Elbows	Mechanical Room	F	Intact	Reported as partially abated in Boiler Room. Assumed to be in other areas	26-Jun-25	Maintain in O & M Plan		Verify Analytical Results
White Mastic on Fiberglass Insulation	Boiler Room	NF	Intact	None	26-Jun-25	Maintain in O & M Plan		Verify Analytical Results
9" x 9" Grey and White Floor Tiles and associated Black Mastic	Custodian office	NF	Damaged	Observed as Damaged in the Cafeteria Office Doorway. Sampled as positive in Food Storage Area in Kitchen.	26-Jun-25	Maintain in O & M Plan		Verify Analytical Results
Wall Dividers	Throughout Classrooms	NF	Intact	None	26-Jun-25	Maintain in O & M Plan		Verify Analytical Results
Fire Doors	Hallways	NF	Intact	None	26-Jun-25	Maintain in O & M Plan		Verify Analytical Results
MATERIALS REPORTED AS ASBESTOS-CONTAINING MATERIALS ON PRIOR SURVEYS THAT WERE NOT IDENTIFIED/OBSERVED BY ECS IN JUNE 26, 2025 SURVEY								
Black Pipe Insulation Mastic	Mechanical Room	NF	N/A	Previously Damaged. Not Observed. Assumed present in other areas.	26-Jun-25	Maintain in O & M Plan		Not observed - Verify removal or sampling if encountered/uncovered
TSI - Boiler Breaching	Boiler Room	RACM	N/A	Reported as previously abated.	26-Jun-25	Remove from O & M Plan pending verification of removal		Not observed - Verify removal or sampling if encountered/uncovered
Black Mastic associated with Beige Floor Tiles (unknown Size)	Rooms 1 & 2	NF	N/A	This material is reported as ACM; however it was not observed in this area.	26-Jun-25	Maintain in O & M Plan		Not observed - Verify removal or sampling if encountered/uncovered
Black Mastic associated with Beige Floor Tiles (unknown Size)	Room 11	NF	N/A	This material is reported as ACM; however it was not observed in this area.	26-Jun-25	Maintain in O & M Plan		Not observed - Verify removal or sampling if encountered/uncovered
TSI-Mudded Elbows/Joints	Stage Storage Room	NF	N/A	This material is reported as ACM; however it was not observed in this area.	26-Jun-25	Maintain in O & M Plan		Not observed - Verify removal or sampling if encountered/uncovered
Black Wrap on Fiberglass Pipe Insulation	Storage/Crawlspace by Classroom 36	NF	N/A	This material is reported as ACM; however it was not observed in this area.	26-Jun-25	Maintain in O & M Plan		Not observed - Verify removal or sampling if encountered/uncovered
White Mastic on Steel Support Beams	Upper Level School	NF	N/A	This material is reported as ACM; however it was not observed in this area.	26-Jun-25	Maintain in O & M Plan		Not observed - Verify removal or sampling if encountered/uncovered
Heavy Textured Ceiling	Hallway outside Multipurpose Room	NF	N/A	This material is reported as PACM; however it was not observed in this area.	26-Jun-25	Maintain in O & M Plan		Not observed - Verify removal or sampling if encountered/uncovered
Black Mastic on Fiberglass 6" Pipe Insulation (above Drop Ceiling Tiles)	Storage Room in Stage	NF	N/A	This material is assumed to be present above drop ceiling tiles in other areas	26-Jun-25	Maintain in O & M Plan		Not observed - Verify removal or sampling if encountered/uncovered
9" x 9" Gray/White Floor Tile and Associated Black Mastic	Food Storage Room in Kitchen	NF	N/A	This material is assumed to be present in other areas	26-Jun-25	Maintain in O & M Plan		Not observed - Verify removal or sampling if encountered/uncovered
Tan Floor Tile and Associated Black Mastic (under Carpet)	Closet in Classroom 10	NF	N/A	This material is assumed to be present under carpet in other areas	26-Jun-25	Maintain in O & M Plan		Not observed - Verify removal or sampling if encountered/uncovered
Black Sink Undercoat	Art Classroom 33	NF	N/A	This material is reported as ACM; however it was not observed in this area.	26-Jun-25	Maintain in O & M Plan		Not observed - Verify removal or sampling if encountered/uncovered
MATERIALS ASSUMED TO CONTAIN ASBESTOS								
Tectum Sound Boards and associated Mastic	Multipurpose Room	NF	Intact	PACM until tested. This material is similar to the samples No. JP-22/27collected by ECS.	30-Jun-25	Maintain in O & M Plan		Sampling if encountered/uncovered

Pipe Flange Gaskets	Throughout the Building	Unknown	Intact	PACM until tested	30-Jun-25	Maintain in O & M Plan		Sampling if encountered/uncovered
Electrical Panels: Transite Components	Mechanical Rooms	NF	Intact	PACM until tested	30-Jun-25	Maintain in O & M Plan		Sampling if encountered/uncovered
Thermal System Insulation (TSI)	Pipes within Chases behind Walls and above Ceiling throughout Building	F	Not Observed	PACM Until Tested	30-Jun-25	Maintain in O & M Plan		Sampling if encountered/uncovered
Mirror Mastic	Bathrooms	NF	Intact	PACM until tested	30-Jun-25	Maintain in O & M Plan		Sampling if encountered/uncovered
Boards and associated Mastics	Classrooms and Hallways	NF	Intact	PACM until tested	30-Jun-25	Add to O & M Plan		Sampling if encountered/uncovered
Interior Pipe Wrap associated with Water Fountains and Radiators	Throughout the Building	NF	Intact	PACM until tested	30-Jun-25	Add to O & M Plan		Sampling if encountered/uncovered
Waterproofing Membranes/Mastics	Behind Interior Finishes, Exterior Veneer and/or Subgrade Walls, and Under Ceramic Flooring	NF	Intact	PACM until tested	30-Jun-25	Add to O & M Plan		Sampling if encountered/uncovered
Asphalt-Based Roofing Material and Caulks/Sealants	Roof	NF	Intact	PACM until tested	30-Jun-25	Add to O & M Plan		Sampling if encountered/uncovered

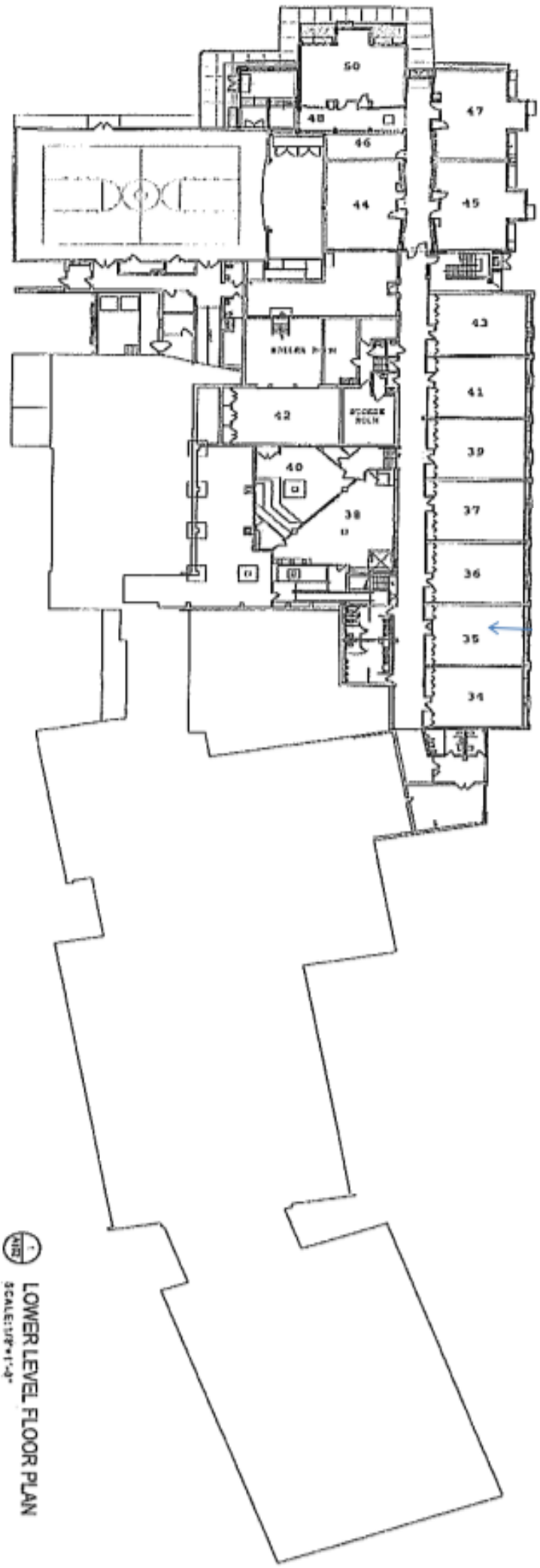
Notes: F = Friable; NF = Non-Friable; PACM = Presumed Asbestos Containing Material; O & M Plan = Operations and Maintenance Plan; NAD = No Asbestos Detected.

Appendix II: Floor Plan



JAMES K. POLK ELEMENTARY SCHOOL

Site Visit:	Project No.	Scale: NTS	Sample Location Sketch Main Floor	ECS	James K. Polk Elementary School 5000 Polk Avenue Alexandria, VA 22304



LOWER LEVEL FLOOR PLAN

Site Visit:	Project No.	Scale: NTS	**Sample Location Sketch Lower Level**	ECS	James K. Polk Elementary School 5000 Polk Avenue Alexandria, VA 22304

Appendix III: Certifications/ Licenses

DPOR License Lookup License Number 3303005057

License Details

Name	STAMBAUGH, DAVID
License Number	3303005057
License Description	Asbestos Inspector License
Rank	Asbestos Inspector
Address	CLEAR BROOK, VA 22624
Initial Certification Date	2023-12-19
Expiration Date	2025-12-31

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DPOR License Lookup License Number 3304001722

License Details

Name	TRUAX, ADAM MICHAEL
License Number	3304001722
License Description	Asbestos Management Planner License
Rank	Asbestos Management Planner
Address	RANSON, WV 25438
Initial Certification Date	2023-03-30
Expiration Date	2026-03-31

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DPOR License Lookup build 1,524 (built 2025-04-18 11:59:26).

Appendix IV: Previous Reports

AHERA ASBESTOS-CONTAINING MATERIALS SURVEY



JAMES K. POLK ELEMENTARY SCHOOL

5000 POLK AVENUE
ALEXANDRIA, VIRGINIA 22304

ECS PROJECT NO. 47:11652-E2

FOR: ALEXANDRIA CITY PUBLIC SCHOOLS

APRIL 4, 2022

April 4, 2022

Mr. John Contreras
Alexandria City Public Schools
1340 Braddock Place
Alexandria, Virginia 22314
john.contreras@acps.k12.va.us

ECS Project No. 47:11652-E2

Reference: AHERA Asbestos-Containing Materials Survey, James K. Polk Elementary School, 5000 Polk Avenue, Alexandria, Virginia

Dear Mr. Contreras:

ECS Mid-Atlantic, LLC (ECS) is pleased to provide Alexandria City Public Schools with the results of the above referenced AHERA Asbestos-Containing Materials Survey performed at James K. Polk Elementary School located at 5000 Polk Avenue in Alexandria, Virginia. This report summarizes our observations, analytical results, findings, and recommendations related to the work performed. The work described in this report was performed by ECS in general accordance with the Scope of Services described in ECS Proposal Number 47:16069-EP and the terms and conditions of the agreement authorizing those services.

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

Sincerely,

ECS Mid-Atlantic, LLC

Zach Harrell
Environmental Technician
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571-334-3350

Christopher J. Chapman, CIH
Director of Industrial Hygiene
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804-767-5102

EXECUTIVE SUMMARY

The subject property consists of James K. Polk Elementary School, a 82,752 square foot, two-story brick school building located at 5000 Polk Avenue in Alexandria, Virginia. The school was originally constructed in 1965 and has been improved with various renovations and additions throughout its service. Building finishes observed included concrete sub-floors, vinyl floor tiles, carpet, and/or ceramic tiles; the wall systems appeared to generally consist of concrete masonry unit (CMU) block walls, drywall wallboard, and/or ceramic wall tiles; and the ceiling systems appeared to generally consist of suspended drop ceilings with ceiling tiles and some plaster finishes.

The purpose of the survey was to determine if asbestos-containing building materials (ACBMs) are present in the subject building. The survey was performed within interior areas of the school building excluding the roofs and exterior materials. This survey is intended to provide supporting documentation for the existing Asbestos Hazard Emergency Response Act (AHERA) management plan for the school building.

Based on the laboratory analysis of the bulk samples collected during the survey, none of the sampled materials (for this most recent survey) were reported to contain asbestos.

Based on a review of historical sampling documentation, the following materials were previously identified as asbestos-containing and ECS does not have records of them being abated.

- Black mastic on fiberglass 6" pipe insulation (above ceiling tiles) historically present in the stage storage closet, and also observed in a switch gear closet; The material is assumed to be present throughout the school.
- Black pipe insulation in the mechanical room, and assumed to be present throughout the school.
- Boiler components like boiler breeching, brick, and gaskets in the Boiler room.
- White Mastic on Fiberglass Insulation in Boiler room (also assumed to be potentially located throughout the school).
- Various Vinyl Floor Tiles and their associated Mastics concealed under new flooring applications - located throughout the school.
- Black sink undercoat in Art Classroom
- Fire doors observed throughout the building
- Wall Dividers present throughout the building

Based on a review of historical documentation, the following materials were previously identified as asbestos-containing and have since been abated.

- Vinyl Floor Tiles and associated mastic abated from rooms 23-33, the hallway from the main level, rooms 34-39, room 41, the hallway from the lower level, and the northern staircase in 2021 (reference ECS Project No. 47:11652-G).
- Asbestos-containing flooring materials were scheduled to be abated from 26, 27, 28, 29, 30, 31, 32, 33, 34, 35, 17, 18, 19, 20, 21, 22, 23, 24, 25, 38, the Stage, Studio, Library Offices, and Corridors in 2021 (ECS Proposal No. 47:18958-EPR). Status pending/unknown;

Recommendations regarding the removal and disposal of the ACMs identified by ECS can be found in Section 5.0 of this report. The executive summary is an integral portion of this report, however, ECS recommends the report be read in its entirety.

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1.0 SITE DESCRIPTION

The subject property consists of James K. Polk Elementary School, a 82,752 square foot, two-story brick school building located at 5000 Polk Avenue in Alexandria, Virginia. The school was originally constructed in 1965 and has been improved with various renovations and additions throughout its service. Building finishes observed included concrete sub-floors, vinyl floor tiles, carpet, and/or ceramic tiles; the wall systems appeared to generally consist of concrete masonry unit (CMU) block walls, drywall wallboard, and/or ceramic wall tiles; and the ceiling systems appeared to generally consist of suspended drop ceilings with ceiling tiles and some plaster finishes.

2.0 PURPOSE

The purpose of this Asbestos Hazard Emergency Response Act (AHERA) asbestos re-inspection was to determine if asbestos-containing building materials (ACBMs) are present on the subject building that had not been previously identified, to account for the ACMs previously identified with regards to their general location and condition, and finally to generally identify if any of the previously noted ACMs had been abated. The survey was performed within interior areas of the subject building. Exterior and roofing materials were not included in this survey. This survey is intended to provide a supporting document for the AHERA management plan for the school.

US EPA AHERA regulations requires all public and private schools to survey school buildings and associated support school buildings for ACMs, and to prepare management plans for identified ACMs.

3.0 METHODOLOGY

ECS performed the authorized Scope of Services in general accordance with our proposal, standard industry practice(s) and methods specified by regulation(s) for the identification of Asbestos-Containing Materials (ACMs).

3.1 Asbestos-Containing Materials

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

During the survey, ECS attempted to identify suspect ACMs in readily accessible areas. However, due to the destructive means required to identify some materials, certain areas were deemed inaccessible (i.e. behind walls or sub grade materials) and were not surveyed for suspect ACMs. Occupied classrooms, select inaccessible closets, the kitchen, and roofs were inaccessible during the survey. Additionally, it is important to note that due to the COVID-19 pandemic, extra precautions were taken in order to avoid contact with students and staff, increasing the number of areas deemed inaccessible. Unidentified suspect ACMs may be located in these and/or other inaccessible areas

Samples were collected in general accordance with EPA Standard 40 CFR 763 Subpart E, Asbestos Hazard Emergency Response Act (AHERA) and OSHA Standard 29 CFR 1926.1101 Inspection Protocol. Multiple samples of each unique material were submitted. Samples were analyzed using "Positive Stop" methodology. If one sample of a homogeneous material is reported to contain asbestos, the remaining samples of that material are not analyzed. EPA regulations stipulate that if one sample contains asbestos the entire quantity of that material contains asbestos, regardless of additional analysis.

4.0 RESULTS

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

4.1 Asbestos-Containing Materials

An Asbestos-Containing Material (ACM) is defined as any material containing more than one percent (>1%) asbestos as determined using the method specified in Appendix E, Subpart E, 40 CFR Part 763, Section 1, PLM. Materials are categorized by the U.S. EPA in the following categories:

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

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

AHERA requires identified asbestos-containing building materials (ACBMs) to be categorized by a trained AHERA inspector into the following categories:

• (1) Damaged or significantly damaged thermal system insulation ACBM.
• (2) Damaged friable surfacing ACBM.
• (3) Significantly damaged friable surfacing ACBM.
• (4) Damaged or significantly damaged friable miscellaneous ACBM.

• (5) ACBM with potential for damage.
• (6) ACBM with potential for significant damage.
• (7) Any remaining friable ACBM or friable suspected ACBM.

Definitions for the above-referenced categories can be found in the Appendices.

Scientific Analytical Institute, Inc. (SAI) submitted a signed final laboratory report to ECS on December 2, 2021. None of the bulk samples submitted for analysis were reported to contain asbestos in detectable concentrations. A complete list of the sampled materials submitted for analysis and sample locations are located in the Appendix of this report. Additional details regarding the overall locations of the materials identified as asbestos-containing are provided further in the report. Photographs of collected samples reported as asbestos-containing are also located in the Appendix of this report.

In total, 27 bulk samples from homogeneous areas were submitted to the laboratory of which 43 layers were analyzed.

No asbestos was detected in the samples collected for this most recent re-inspection event.

Summary of Previously Identified Asbestos-Containing Materials

Location	Material Description	Analytical Results	EPA Category	AHERA Category	Abatem Histor
Rooms 1 & 2	Black Mastic Associated with Beige Floor Tile (Unknown Size)	3% Chrysotile	Category I Non-Friable	Not applicable	Inaccessi during survey, assumed be prese
Room 11	Black Mastic Associated with Beige Floor Tile (Unknown Size)	8% Chrysotile	Category I Non-Friable	Not applicable	Inaccessi during survey, assumed be prese
Mechanical Room	Thermal System Insulation (TSI)-Mudded Elbows	Unknown	RACM	Not applicable	Not observed assumed have bee abated
Boiler Room	White Mastic on Fiberglass Insulation	Unknown	Category II Non-Friable	Not applicable	Observed (pictured assumed be prese throughc

Location	Material Description	Analytical Results	EPA Category	AHERA Category	Abatem Histor
Boiler Room	TSI-Boiler Breeching	Unknown	RACM	Not applicable	Observed
Custodian office	9" x 9" Grey and White Floor Tile and associated Black Mastic	Unknown	Category I Non-Friable	Not applicable	Not observed assumed be in conceale or inaccessi areas
Mechanical Room	Black Pipe Insulation mastic	Unknown	Category II Non-Friable	Not applicable	Observed (pictured assumed be prese throughc
Hallways	Fire Doors	Unknown	Category II Non-Friable	Not applicable	Observed
Lounge Room and Main Office	Spray-on Material	Unknown	RACM	Not applicable	Not observed assumed to be in conceale or inaccessi areas
Multipurpose Room/ Stage	Black mastic on Duct Insulation	Unknown	Category II Non-Friable	Not applicable	Observed
Stage Storage Room	TSI-Mudded Elbows/ Joints	Unknown	RACM	Not applicable	Inaccessi during survey, assumed be prese
Stage Storage Room	Grey Vibration Damper	Unknown	RACM	(5) ACBM with potential for damage.	Inaccessi during survey, assumed be prese

Location	Material Description	Analytical Results	EPA Category	AHERA Category	Abatem Histor
Upper Level School	White Mastic on steel support beams	Unknown	Category II Non-Friable	Not applicable	Not observed assumed have be i conceale or inaccessi areas
Hallway outside multipurpose room	Heavy Textured Ceiling	Unknown	RACM	(6) ACBM with potential for significant damage.	Observed assumed be prese throughc
Throughout classrooms	Wall Dividers	Unknown	Category II Non-Friable	Not applicable	Observed (pictured
Storage/crawl space by classroom 36	Black wrap on Fiberglass Pipe Insulation	5% Chrysotile	Category I Non-Friable	Not applicable	Not observed assumed be in conceale or inaccessi areas
Ramp to storage/crawl space by classroom 36*	9" x 9" Off-white Floor Tile with associated Black Mastic	Floor Tile – 3% Chrysotile Mastic – 8% Chrysotile	Category I Non-Friable	Not applicable	Abated- (ECS PROJECT NO. 47:11652
Art classroom 33	Black Sink Undercoat	5% Chrysotile	Category II Non-friable	Not applicable	Inaccessi during survey, assumed be prese
Storage Room in stage	Black Mastic on Fiberglass 6" Pipe Insulation (above Ceiling Tiles)	10% Chrysotile	Category II Non-Friable	Not applicable	Inaccessi assumed be prese

Location	Material Description	Analytical Results	EPA Category	AHERA Category	Abatem Histor
Food storage room in Kitchen	9" x 9" Gray/white Floor Tile with associated Black Mastic	Floor Tile – 3% Chrysotile Mastic – 5% Chrysotile	Category I Non-Friable	Not applicable	Inaccessi during survey, assumed be prese
Closet in classroom 10	Tan Floor Tile with associated Black Mastic (under carpet)	Floor Tile – 3% Chrysotile Mastic – 8% Chrysotile	Category I Non-Friable	Not applicable	Inaccessi during survey, assumed be prese

Notes:
1. Historical documentation shows that floor tiles and associated mastic were abated from rooms 23 the hallway from the main level, rooms 34-39, room 41, the hallway from the lower level, and the north staircase in 2021 (reference ECS Project No. 47:11652-G).
2. Asbestos-containing flooring materials was scheduled to be abated from 26, 27, 28, 29, 30, 31, 32, 34, 35, 17, 18, 19, 20, 21, 22, 23, 24, 25, 38, the Stage, Studio, Library Offices, and Corridors in 2021(ECS Propo No. 47:18958-EPR). Status is unknown/pending;

Summary of Non Asbestos-Containing Materials Identified

Location	Material Description	Analytical Results
Materials Sampled in 2021 AHERA Survey		
Main Office	4" Black Cove Base with associated Brown Mastic	Both NAD
Exit near CR 1 & 2	4" Cobalt Blue Cove Base with associated Cream Mastic	Both NAD
Classroom 5 & 6	18" x 10" Gray vinyl Self-stick Floor Tile	NAD
1st Floor Teachers lounge (between CR's 8 & 10	12" x 12" Blue streak Floor Tile with associated Brown Mastic	Both NAD
Closet by CR54	2' x 2' Rough finish Ceiling Tile	NAD
Stairwell by Exit 8	Gray Stair Tread and associated Mastic	Both NAD
Under stairwell by Exit 8	2' x 2' Pinhole and fissure Ceiling Tile	NAD
Boiler room by CR44	Red pipe wall packing	NAD

Location	Material Description	Analytical Results
Ramp to Storage Room/ Crawl Space to CR 36	12" x 12" Gray half inch square patterned floor tile (2nd layer) and associated Brown Mastic	Both NAD
Gym	Beige Acoustic panels	NAD
Gym	6" White Cove Base and associated Mastic	Both NAD
Gym Entrance	Blue specked Vinyl Sheet Floor Tile and associated Mastic	Both NAD
Staff Restroom near Main Office	12" x 12" Blue with White Streak Floor Tile and associated Brown Mastic	Both NAD
Previously Sampled Materials		
Northern Hallway	12" x 12" White with Green/Orange Flecks Floor Tile & Yellow Mastic	Both NAD
Room #14	4" Blue Cove base & Cream Mastic	Both NAD
Teacher's Lounge	Black Stone-like Window Sill	NAD
Teacher's Lounge	12" x 12" White w/ Blue/Orange Flecks Floor Tile & Yellow Mastic	Both NAD
New Addition- Hallway	12" x 12" Gray Floor Tile & Yellow Mastic	Both NAD
New Addition- Hallway	4" Gray Cove Base & Mastic	Both NAD
New Addition- Hallway	2' x 2' Ceiling Tile	
Rooms 1 & 2	12" x 12" White with Colored Streaks Floor Tile and associated brown mastic	Both NAD
Rooms 1 & 2	Beige Floor Tile (Unknown Size)	NAD
Rooms 1 & 2	Yellow Carpet Mastic	NAD
Rooms 5 & 16	12" x 12" White with Colored Streaks Floor Tile and associated yellow mastic	Both NAD
Room 11	Beige Floor Tile (Unknown Size)	NAD
Hallway on Ground Floor by Mechanical Room	2' x 4' White Pinhole Punch Ceiling Tile	NAD
Hallway on Ground Floor by Mechanical Room	Brown Mastic Associated with Blackboard	Both NAD

Location	Material Description	Analytical Results
Hallway on Ground Floor by Mechanical Room	White Mastic on Fiberglass Duct Insulation	NAD
Hallway on Ground Floor by Mechanical Room	Black Mastic on Fiberglass Pipe Insulation	NAD
Storage/Crawl Space by Classroom 36, Storage Room in Stage, & Teacher Lounge Room	Drywall	NAD
Storage/Crawl Space by Classroom 36, Storage Room in Stage, & Teacher Lounge Room	Joint Compound	NAD
Storage/Crawl Space by Classroom 36	2' x 4' Beige "Bird-Nest" Ceiling Tile and associated black mastic	Both NAD
Ramp to Storage/Crawl Space by Classroom 36	4" Tan Cove Base and Associated Beige Mastic	Both NAD
Ramp to Storage/Crawl Space by Classroom 36	12" x 12" Black/Brown/White Textured Floor Tile and Leveling Compound/ Brown Mastic	Both NAD
Ramp to Storage/Crawl Space by Classroom 36	Gray Floor Tile and Associated Yellow/ Brown Mastic under 12" x 12" Floor Tile	Both NAD
Exit Door 8 (under Gray Stair Tread)	Red/Black Floor Mastic and Leveling Compound	Both NAD
Exit Door 8	Gray Stair Tread	NAD
Stairwell above Exit Door 8, Art Classroom 33, & Main Entrance	Green Interior Window Caulk	NAD
Above Entrance to the Cafeteria & Above Entrance to the Multipurpose Room	Textured Plaster Wall	NAD
Kitchen	Brown Ceiling Mastic Associated with White Metal Pinhole Ceiling Tile	Both NAD
Classroom 10, 11, & 12	Gray Sink Undercoat	NAD
Teacher Lounge Room	Gypsum Board Roof	NAD

Location	Material Description	Analytical Results
Notes: **NAD = No Asbestos Detected** **Due to the nondestructive means of this survey, newly applied and installed flooring components and air moving equipment components were not sampled to avoid voiding warranty or damage to said systems.** **Locations reflect the area in which the material was sampled. These materials may be representative of and located in other homogenous areas throughout the school.**		

4.2 Suspect or Assumed Asbestos-Containing Materials

Due to the inaccessibility or the destructive means that asbestos sampling requires, additional suspect ACMs may remain within the building hidden behind inaccessible areas that include, but are not limited to, sub-grade walls, structural members, topping slabs, sub-grade sealants, flooring located below underlayments, areas behind exterior walls, pipe trenches, and subsurface utilities, etc. These areas were deemed inaccessible and were not assessed.

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

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

- **Boilers Components** in boilers (gasket, fire brick, etc.).
- **Vermiculite Filler** associated with Concrete Masonry Unit (Blocks/Walls).
- **Duct Pin Mastic** associated with the HVAC Units.
- **Electrical Panels Asbestos Cement Components** in electrical systems.
- **Fire Door and associated Casing Insulation** in locations requiring a rated fire door and door casing.
- **Mastics or Cement Boards** associated with Baseboard Heaters/Radiator Components/Wall Mounted Fan Coil Units in and/or behind Radiators/Baseboards, and black boards.
- **Mastics** behind/under mirrors and dry-erase/chalk boards, lockers.
- **Water Fountain Components** in water fountains (mastics, pipe cloth, etc).
- **Waterproofing Membrane/Mastics/Vapor Barriers/Sub-grade Pipe Conduit** within exterior wall cavities, behind interior finishes, exterior veneer and/or subgrade walls.
- **Thermal System Insulation (TSI)** on pipes within chases behind solid walls, within the inaccessible regions of crawl spaces, above the visible ductwork, or below subgrade.
- **Pipe Flange Gaskets** in heating and plumbing systems.
- **Air Handler Components** in the air handlers (interior components).
- **Freezer Components** and insulation.
- **Vibration Dampener Cloth** associated with HVAC Systems.
- **Roofing Materials** including caulk, flashing, membranes.
- **Felt Paper and Leveling Compound** associated with hardwood floors.
- **Asbestos-Cement Pipe Conduit** encased in duct banks and/or below sub-grade.

- **Laboratory Bench Tops**
- **Terrazzo Stairs, Floors, Sinks, and Window Sills**
- **Exterior Soffit Materials**
- **Spray-On Fireproofing** above ceilings and behind walls.
- **Gym floors**
- **Locker mastics**
- **Block filler paint**
- **Exterior materials (roof, caulkings, glazings)**

5.0 RECOMMENDATIONS AND REGULATORY REQUIREMENTS

Based on our understanding of the purpose of the AHERA Asbestos-Containing Materials Survey, the results of laboratory analysis, and our findings and observations, ECS presents the following recommendations.

5.1 Asbestos-Containing Materials

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

If ACMs are to be removed, it is recommended that an industrial hygienist monitor the project. This involves collecting air samples from within and outside abatement work areas to monitor the asbestos abatement contractor's work practices over the course of the project. The industrial hygienist should evaluate if the asbestos abatement work is in accordance with project specifications, U.S. EPA regulation 40 CFR Part 61-National Emission Standards for Hazardous Air Pollutants Subpart M: National Emission Standard for Asbestos, and U.S. Occupational Safety and Health Administration (OSHA) regulation 29 CFR 1926.1101 – Asbestos in Construction. The industrial hygienist should assess each work area to monitor the removal of ACMs. Only after the industrial hygienist has determined the identified ACMs have been removed should final clearance air samples be collected (if necessary).

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

The results of this survey should be incorporated into the school's management plan.

6.0 LIMITATIONS

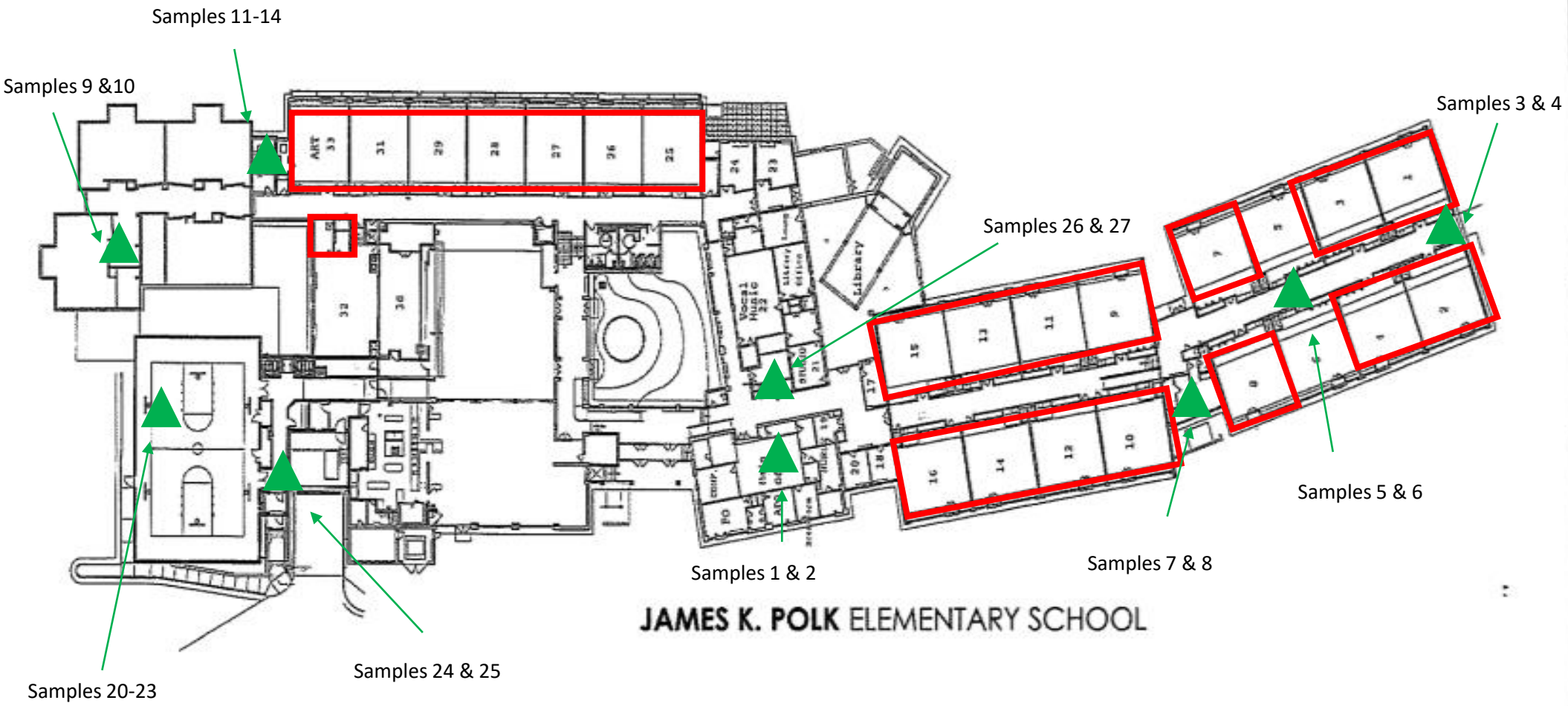
The conclusions and recommendations presented within this report are based upon a reasonable level of assessment within normal bounds and standards of professional practice for a site in this particular geographic setting. ECS is not responsible or liable for the discovery and elimination of hazards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

During this study, samples were submitted for analysis at an accredited laboratory via polarized light microscopy. As with any similar survey of this nature, actual conditions exist only at the precise locations from which samples were collected. Certain inferences are based on the results of this sampling and related testing to form a professional opinion of conditions in areas beyond those from which the samples were collected. No warranty, expressed or implied, is made.

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

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

Appendix I: Figures



Sample Locations

Inaccessible Areas

James K. Polk Elementary School
5000 Polk Avenue
Alexandria, VA 22304

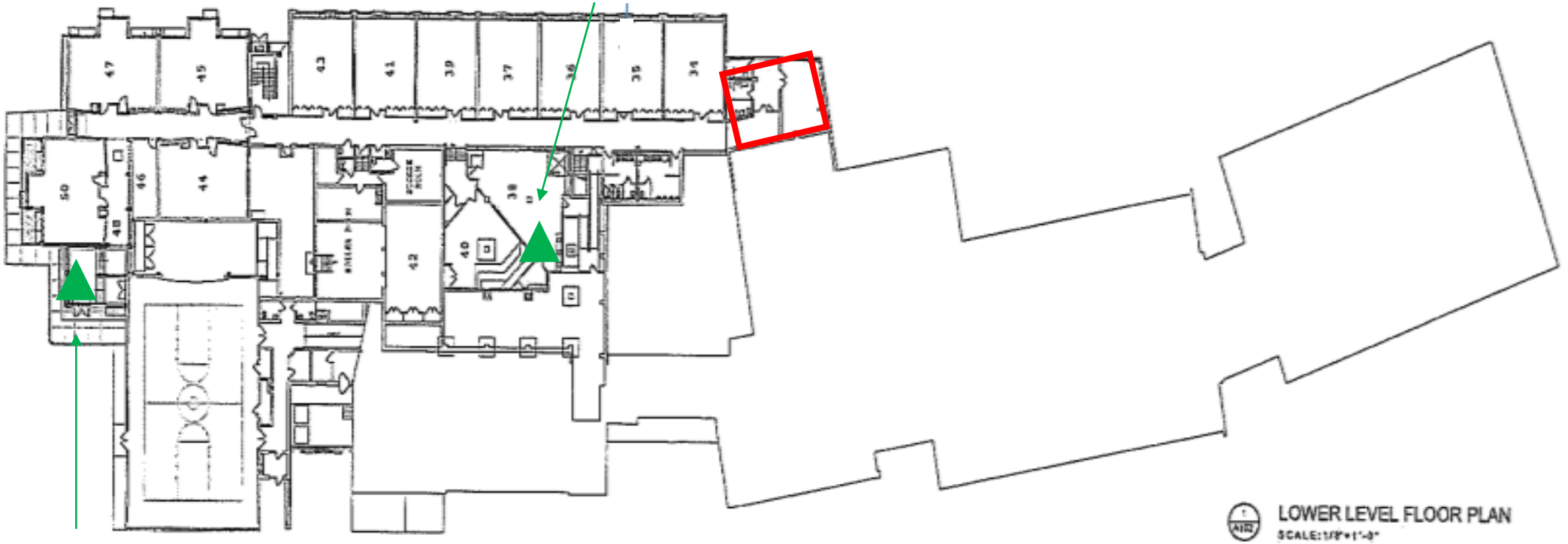
Sample Location Sketch Main Floor

Scale: NTS

Project No. 11652-E2

Site Visit: 11/12/21

Samples 18 & 19



Samples 15-16

▲ Sample Locations

▭ Inaccessible Areas

James K. Polk Elementary School
5000 Polk Avenue
Alexandria, VA 22304

Sample Location Sketch Lower Level

Scale: NTS

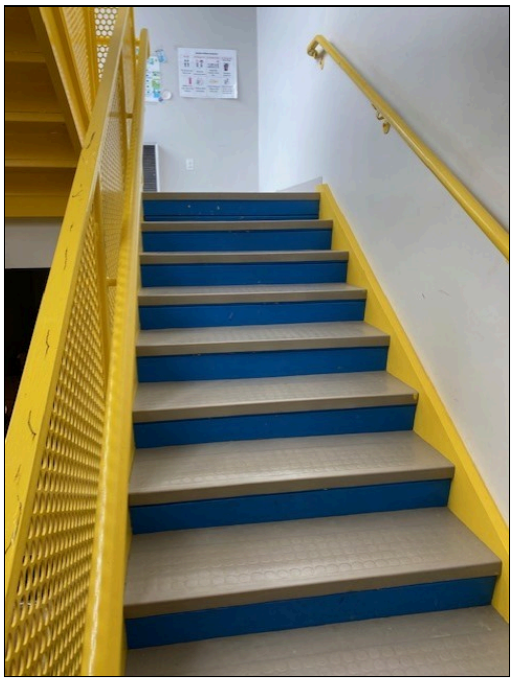
Project No. 11652-E2

Site Visit: 11/12/21

Appendix II: Site Photographs



1 - View of Switch Gear Room TSI (Black Mastic Previously Reported as ACM)



2 - View of Stairwell (Sample 11 and 12- NAD)



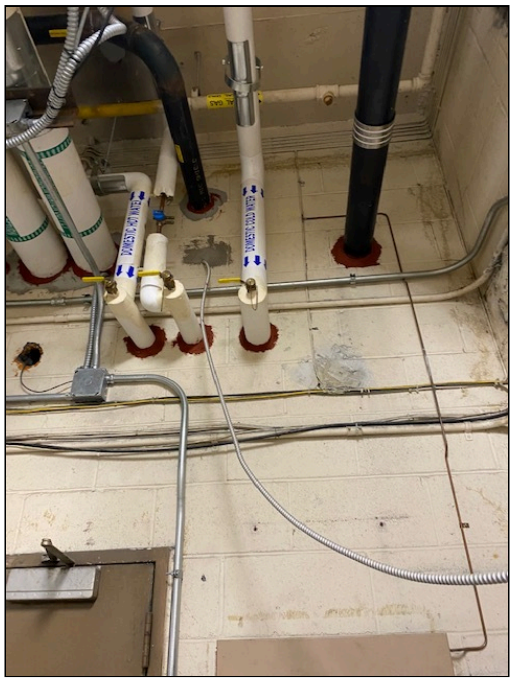
3 - View of Stage Curtain Tag



4 - View of Ramp to Storage 2 Layers of Floor Tile (Sample 18 and 19- Floor tile and Mastic- Both NAD)



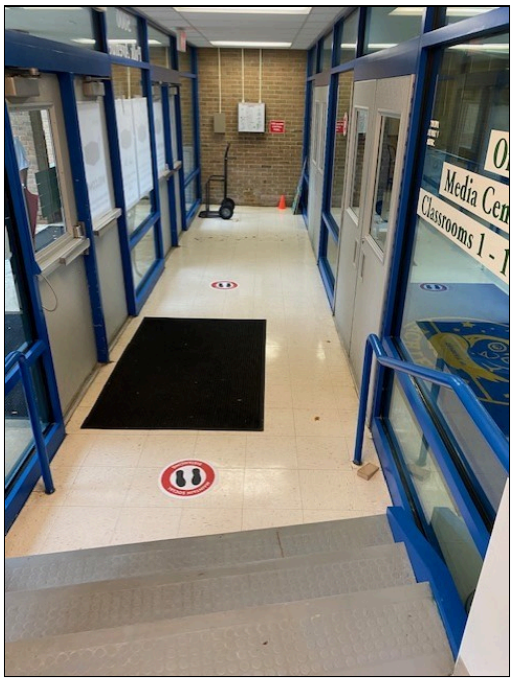
5 - View of Media Center (New Flooring Application)



6 - View of Red Pipe Wall Packing (Sample 15, 16, and 17- NAD)



7 - View of Mechanical Room TSI (White Mastic- Previously reported as ACM)



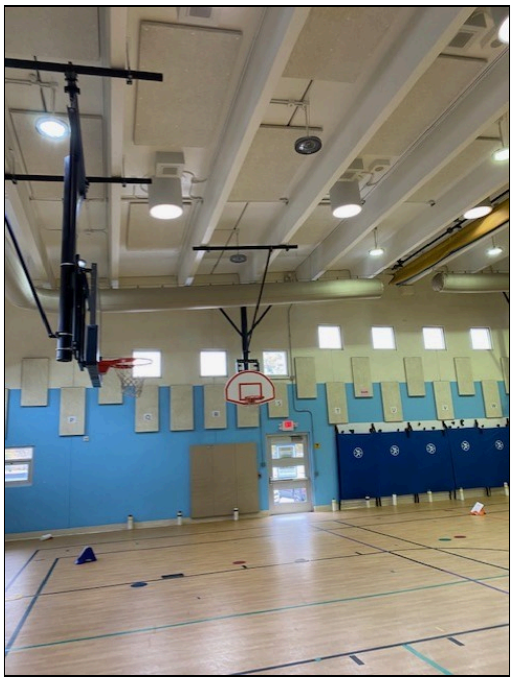
8 - View of Main Foyer



9 - View of Hallway Floor Tile



10 - View of 6" White Cove Base (Sample 22 and 23- Cove base and Mastic- Both NAD)



11 - View of Gym



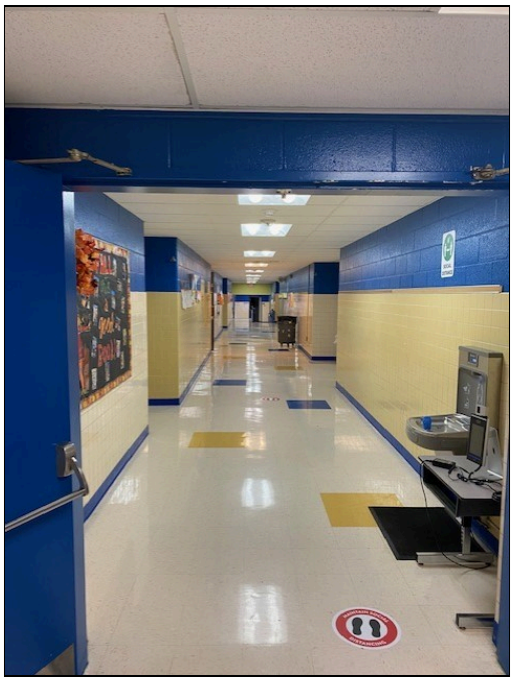
12 - View of Beige Acoustic Panels in Gym (Sample 20 and 21- NAD)



13 - View of Front Entrance



14 - View of Survey Floor Tile (Sample 7 and 8- Floor tile and Mastic- NAD)



15 - View of 4" Cobalt Blue Cove Base Throughout- (Sample 3 and 4- Cove base and Mastic- Both NAD)



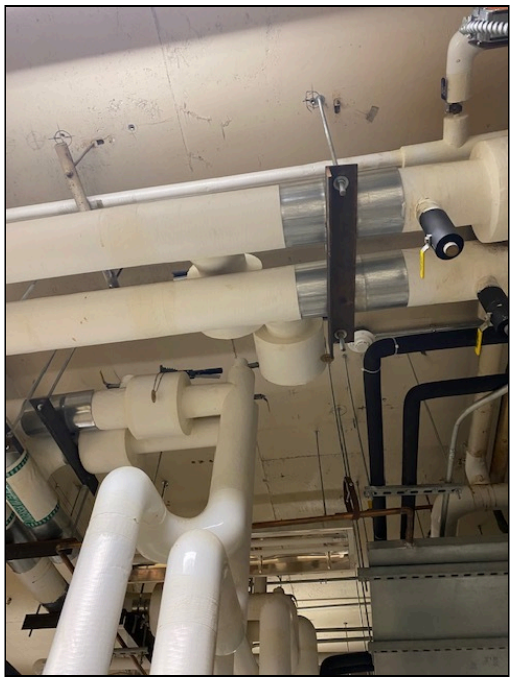
16 - View of Dividers



17 - View of Cafeteria



18 - View of stored Building Materials



19 - View of Mechanical Room TSI 3 (Black Insulation previously reported as ACM)

Appendix III: Asbestos Bulk Sample Results

SUSPECT ASBESTOS-CONTAINING MATERIALS BULK SAMPLING RESULTS

Sample #	Sampling Location	Material/Description	Analytical Results
1 - A	Main Office	4" Black Cove Base with associated Brown Mastic- Cove Base	NAD
1 - B	Main Office	4" Black Cove Base with associated Brown Mastic-Mastic	NAD
2 - A	Main Office	4" Black Cove Base with associated Brown Mastic- Cove Base	NAD
2 - B	Main Office	4" Black Cove Base with associated Brown Mastic-Mastic	NAD
3 - A	Exit near CR 1 & 2	Cobolt Blue Cove Base with associated Cream Mastic- Cove Ba	NAD
3-B	Exit near CR 1 & 2	4" Cobolt Blue Cove Base with associated Cream Mastic- Masti	NAD
4-A	Exit near CR 1 & 2	Cobolt Blue Cove Base with associated Cream Mastic- Cove Ba	NAD
4-B	Exit near CR 1 & 2	4" Cobolt Blue Cove Base with associated Cream Mastic- Masti	NAD
5	Classroom 5	18" x 10" Gray vinyl Self-Stick Floor Tile	NAD
6	Classroom 6	18" x 10" Gray vinyl Self-Stick Floor Tile	NAD
7-A	hers lounge (between Class	2" x 12" Blue Streak Floor Tile with associated Brown Mastic- Ti	NAD
7-B	hers lounge (between Class	x 12" Blue Streak Floor Tile with associated Brown Mastic- Ma	NAD
8-A	hers lounge (between Class	2" x 12" Blue Streak Floor Tile with associated Brown Mastic- Ti	NAD
8-B	hers lounge (between Class	x 12" Blue Streak Floor Tile with associated Brown Mastic- Ma	NAD
9	Closet by Classroom 54	2' x 2' Rough Finish Ceiling Tile	NAD
10	Closet by Classroom 54	2' x 2' Rough Finish Ceiling Tile	NAD
11-A	Stairwell by Exit 8	Gray Stair Tread and associated Mastic- Tread	NAD
11-B	Stairwell by Exit 8	Gray Stair Tread and associated Mastic- Mastic	NAD
12-A	Stairwell by Exit 8	Gray Stair Tread and associated Mastic- Tread	NAD
12-B	Stairwell by Exit 8	Gray Stair Tread and associated Mastic- Mastic	NAD
13	Under Stairwell by Exit 8	2' x 2' Pinhole and fissure Ceiling Tile	NAD
14	Under Stairwell by Exit 8	2' x 2' Pinhole and fissure Ceiling Tile	NAD
15	oiler Room by Classroom 4	Red Pipe Wall Packing	NAD
16	oiler Room by Classroom 4	Red Pipe Wall Packing	NAD
17	oiler Room by Classroom 4	Red Pipe Wall Packing	NAD
18-A	age Room/ Crawl Space to	.5" square patterned Floor Tile (2nd layer) and associated Brov	NAD
18-B	age Room/ Crawl Space to	5" square patterned Floor Tile (2nd layer) and associated Brow	NAD
19-A	age Room/ Crawl Space to	.5" square patterned Floor Tile (2nd layer) and associated Brov	NAD

Table Notes:
Bold = Asbestos-Containing Materials
N/A = Not Analyzed
None Detected = No Asbestos Detected

SUSPECT ASBESTOS-CONTAINING MATERIALS BULK SAMPLING RESULTS

Sample #	Sampling Location	Material/Description	Analytical Results
19-B	ıge Room/ Crawl Space to	5" square patterned Floor Tile (2nd layer) and associated Brown	NAD
20	Gym	Beige Acoustic Panels	NAD
21	Gym	Beige Acoustic Panels	NAD
22-A	Gym	6" White Cove Base and associated Mastic- Cove Base	NAD
22-B	Gym	6" White Cove Base and associated Mastic- Mastic	NAD
23-A	Gym	6" White Cove Base and associated Mastic- Cove Base	NAD
23-B	Gym	6" White Cove Base and associated Mastic- Mastic	NAD
24-A	Entrance to Gym	Blue specked Vinyl Sheet Floor Tile and associated Mastic- Tile	NAD
24-B	Entrance to Gym	lue specked Vinyl Sheet Floor Tile and associated Mastic- Mast	NAD
25-A	Entrance to Gym	Blue specked Vinyl Sheet Floor Tile and associated Mastic- Tile	NAD
25-B	Entrance to Gym	lue specked Vinyl Sheet Floor Tile and associated Mastic- Mast	NAD
26-A	1022- Media Center	2" Blue with White Streak Floor Tile and associated Brown Mas	NAD
26-B	1035 Kitchen	' Blue with White Streak Floor Tile and associated Brown Mastic	NAD
27-A	1035 Kitchen	2" Blue with White Streak Floor Tile and associated Brown Mas	NAD
27-B	1035 Kitchen	' Blue with White Streak Floor Tile and associated Brown Mastic	NAD

Table Notes:
Bold = Asbestos-Containing Materials
N/A = Not Analyzed
None Detected = No Asbestos Detected

Appendix IV: Laboratory Report(s)

Bulk Asbestos Analysis

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

NVLAP TESTING NVLAP LAB CODE 200664-0

AIHA ACCREDITED LABS.ORG Lab ID # 173190

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

Attn: Lauren Kesslak

Project: 11652-E2/ AHERA ACPS James K. Polk (11/12/21) Survey

Lab Order ID: 71979755
Analysis ID: 71979755_PLM
Date Received: 11/18/2021
Date Reported: 12/2/2021

Sample ID *Lab Sample ID*	Description *Lab Notes*	Asbestos	Fibrous Components	Non-Fibrous Components	Attributes Treatment
1 - A	4" black cove base with associated brown mastic	None Detected		100% Other	Black Non Fibrous Homogeneous
71979755PLM_1	*cove base*				Dissolved
1 - B	4" black cove base with associated brown mastic	None Detected		100% Other	Brown Non Fibrous Homogeneous
71979755PLM_28	*mastic*				Dissolved
2 - A	4" black cove base with associated brown mastic	None Detected		100% Other	Black Non Fibrous Homogeneous
71979755PLM_2	*cove base*				Dissolved
2 - B	4" black cove base with associated brown mastic	None Detected		100% Other	Brown Non Fibrous Homogeneous
71979755PLM_29	*mastic*				Dissolved
3 - A	4" cobolt blue cove base with associated cream mastic	None Detected		100% Other	Blue Non Fibrous Homogeneous
71979755PLM_3	*cove base*				Dissolved
3 - B	4" cobolt blue cove base with associated cream mastic	None Detected		100% Other	Cream Non Fibrous Homogeneous
71979755PLM_30	*mastic*				Dissolved
4 - A	4" cobolt blue cove base with associated cream mastic	None Detected		100% Other	Blue Non Fibrous Homogeneous
71979755PLM_4	*cove base*				Dissolved
4 - B	4" cobolt blue cove base with associated cream mastic	None Detected		100% Other	Cream Non Fibrous Homogeneous
71979755PLM_31	*mastic*				Dissolved

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

Charmel Dozier (43)

Analyst

Approved Signatory

Bulk Asbestos Analysis

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

NVLAP TESTING NVLAP LAB CODE 200664-0

AIHA ACCREDITED LABS.ORG Lab ID # 173190

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

Attn: Lauren Kesslak

Project: 11652-E2/ AHERA ACPS James K. Polk (11/12/21) Survey

Lab Order ID: 71979755
Analysis ID: 71979755_PLM
Date Received: 11/18/2021
Date Reported: 12/2/2021

Sample ID *Lab Sample ID*	Description *Lab Notes*	Asbestos	Fibrous Components	Non-Fibrous Components	Attributes Treatment
5 *71979755PLM_5*	18"x10" Gray vinyl self-stck floor tile	**None Detected**		**100% Other**	Gray Non Fibrous Homogeneous Dissolved
6 *71979755PLM_6*	18"x10" Gray vinyl self-stck floor tile	**None Detected**		**100% Other**	Gray Non Fibrous Homogeneous Dissolved
7 - A *71979755PLM_7*	12"x12" blue streak floor tile with associated brown mastic *cove base*	**None Detected**		**100% Other**	Blue Non Fibrous Homogeneous Dissolved
7 - B *71979755PLM_32*	12"x12" blue streak floor tile with associated brown mastic *mastic*	**None Detected**		**100% Other**	Brown Non Fibrous Homogeneous Dissolved
8 - A *71979755PLM_8*	12"x12" blue streak floor tile with associated brown mastic *cove base*	**None Detected**		**100% Other**	Blue Non Fibrous Homogeneous Dissolved
8 - B *71979755PLM_33*	12"x12" blue streak floor tile with associated brown mastic *mastic*	**None Detected**		**100% Other**	Brown Non Fibrous Homogeneous Dissolved
9 *71979755PLM_9*	2'x2' Rough finish ceiling tile	**None Detected**	**35% Cellulose** **35% Mineral Wool**	**30% Other**	White Fibrous Homogeneous Teased
10 *71979755PLM_10*	2'x2' Rough finish ceiling tile	**None Detected**	**35% Cellulose** **35% Mineral Wool**	**30% Other**	White Fibrous Homogeneous Teased

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

Charmel Dozier (43)

Analyst

Approved Signatory

Bulk Asbestos Analysis

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

NVLAP TESTING NVLAP LAB CODE 200664-0

INDUSTRIAL HYGIENE ISO/IEC 17025:2017 Accredited Laboratory AIHA LAP, LLC AIHAACCREDITEDLABS.ORG Lab ID # 173190

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

Attn: Lauren Kesslak

Project: 11652-E2/ AHERA ACPS James K. Polk (11/12/21) Survey

Lab Order ID: 71979755
Analysis ID: 71979755_PLM
Date Received: 11/18/2021
Date Reported: 12/2/2021

Sample ID *Lab Sample ID*	Description *Lab Notes*	Asbestos	Fibrous Components	Non-Fibrous Components	Attributes Treatment
11 - A *71979755PLM_11*	Gray stair tread and associated mastic *tread*	**None Detected**		**100% Other**	Gray Non Fibrous Homogeneous Ashed
11 - B *71979755PLM_34*	Gray stair tread and associated mastic *mastic*	**None Detected**		**100% Other**	Yellow Non Fibrous Homogeneous Dissolved
12 - A *71979755PLM_12*	Gray stair tread and associated mastic *tread*	**None Detected**		**100% Other**	Gray Non Fibrous Homogeneous Ashed
12 - B *71979755PLM_35*	Gray stair tread and associated mastic *mastic*	**None Detected**		**100% Other**	Yellow Non Fibrous Homogeneous Dissolved
13 *71979755PLM_13*	2'x2' pinhole and fissure ceiling tile	**None Detected**	**35% Cellulose** **35% Mineral Wool**	**30% Other**	White Fibrous Homogeneous Teased
14 *71979755PLM_14*	2'x2' pinhole and fissure ceiling tile	**None Detected**	**35% Cellulose** **35% Mineral Wool**	**30% Other**	White Fibrous Homogeneous Teased
15 *71979755PLM_15*	Red pipe wall packing	**None Detected**	**2% Fiber Glass**	**98% Other**	Red Non Fibrous Homogeneous Dissolved
16 *71979755PLM_16*	Red pipe wall packing	**None Detected**	**2% Fiber Glass**	**98% Other**	Red Non Fibrous Homogeneous Dissolved

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

Charmel Dozier (43)

Analyst

Approved Signatory

Bulk Asbestos Analysis

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

NVLAP TESTING NVLAP LAB CODE 200664-0

AIHA ACCREDITED LABS.ORG Lab ID # 173190

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

Attn: Lauren Kesslak

Project: 11652-E2/ AHERA ACPS James K. Polk (11/12/21) Survey

Lab Order ID: 71979755
Analysis ID: 71979755_PLM
Date Received: 11/18/2021
Date Reported: 12/2/2021

Sample ID *Lab Sample ID*	Description *Lab Notes*	Asbestos	Fibrous Components	Non-Fibrous Components	Attributes Treatment
17 *71979755PLM_17*	Red pipe wall packing	None Detected	2% Fiber Glass	98% Other	Red Non Fibrous Homogeneous Dissolved
18 - A *71979755PLM_18*	12"x12" gray half inch square patterned floor tile (2nd layer) and associated brown mastic *tile*	None Detected		100% Other	Gray Non Fibrous Homogeneous Dissolved
18 - B *71979755PLM_36*	12"x12" gray half inch square patterned floor tile (2nd layer) and associated brown mastic *mastic*	None Detected		100% Other	Gray Non Fibrous Homogeneous Dissolved
19 - A *71979755PLM_19*	12"x12" gray half inch square patterned floor tile (2nd layer) and associated brown mastic *tile*	None Detected		100% Other	Gray Non Fibrous Homogeneous Dissolved
19 - B *71979755PLM_37*	12"x12" gray half inch square patterned floor tile (2nd layer) and associated brown mastic *mastic*	None Detected		100% Other	Brown Non Fibrous Homogeneous Dissolved
20 *71979755PLM_20*	Beige acoustic panels	None Detected	80% Cellulose	20% Other	Brown Fibrous Homogeneous Teased
21 *71979755PLM_21*	Beige acoustic panels	None Detected	80% Cellulose	20% Other	Brown Fibrous Homogeneous Teased
22 - A *71979755PLM_22*	6" white cove base and associated masitc *cove base*	None Detected		100% Other	White Non Fibrous Heterogeneous Ashed

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

Charmel Dozier (43)

Analyst

Approved Signatory

P-F-002 r15 1/16/2021

Bulk Asbestos Analysis

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

NVLAP TESTING NVLAP LAB CODE 200664-0

AIHA ACCREDITED LABS.ORG Lab ID # 173190

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

Attn: Lauren Kesslak

Project: 11652-E2/ AHERA ACPS James K. Polk (11/12/21) Survey

Lab Order ID: 71979755
Analysis ID: 71979755_PLM
Date Received: 11/18/2021
Date Reported: 12/2/2021

Sample ID *Lab Sample ID*	Description *Lab Notes*	Asbestos	Fibrous Components	Non-Fibrous Components	Attributes Treatment
22 - B *71979755PLM_38*	6" white cove base and associated masitc *mastic*	**None Detected**		**100% Other**	Yellow Non Fibrous Homogeneous Dissolved
23 - A *71979755PLM_23*	6" white cove base and associated masitc *cove base*	**None Detected**		**100% Other**	White Non Fibrous Homogeneous Dissolved
23 - B *71979755PLM_39*	6" white cove base and associated masitc *mastic*	**None Detected**		**100% Other**	Yellow Non Fibrous Homogeneous Dissolved
24 - A *71979755PLM_24*	Blue specked vinyl sheet floor tile and associated mastic *tile*	**None Detected**		**100% Other**	Blue Non Fibrous Homogeneous Dissolved
24 - B *71979755PLM_40*	Blue specked vinyl sheet floor tile and associated mastic *mastic*	**None Detected**		**100% Other**	Yellow Non Fibrous Homogeneous Dissolved
25 - A *71979755PLM_25*	Blue specked vinyl sheet floor tile and associated mastic *tile*	**None Detected**		**100% Other**	Blue Non Fibrous Homogeneous Dissolved
25 - B *71979755PLM_41*	Blue specked vinyl sheet floor tile and associated mastic *mastic*	**None Detected**		**100% Other**	Yellow Non Fibrous Homogeneous Dissolved
26 - A *71979755PLM_26*	12"x12" blue with white streak floor tile and associated brown mastic *tile*	**None Detected**		**100% Other**	Blue Non Fibrous Homogeneous Dissolved

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

Charmel Dozier (43)

Analyst

Approved Signatory

Bulk Asbestos Analysis

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

NVLAP TESTING NVLAP LAB CODE 200664-0

AIHA ACCREDITED LABS.ORG Lab ID # 173190

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

Attn: Lauren Kesslak

Project: 11652-E2/ AHERA ACPS James K. Polk (11/12/21) Survey

Lab Order ID: 71979755
Analysis ID: 71979755_PLM
Date Received: 11/18/2021
Date Reported: 12/2/2021

Sample ID *Lab Sample ID*	Description *Lab Notes*	Asbestos	Fibrous Components	Non-Fibrous Components	Attributes Treatment
26 - B	12"x12" blue with white streak floor tile and associated brown mastic	**None Detected**		**100% Other**	Brown Non Fibrous Homogeneous
71979755PLM_42	*mastic*				Dissolved
27 - A	12"x12" blue with white streak floor tile and associated brown mastic	**None Detected**		**100% Other**	Blue Non Fibrous Homogeneous
71979755PLM_27	*tile*				Dissolved
27 - B	12"x12" blue with white streak floor tile and associated brown mastic	**None Detected**		**100% Other**	Yellow Non Fibrous Homogeneous
71979755PLM_43	*mastic*				Dissolved

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

Charmel Dozier (43)

Analyst

Approved Signatory

1191955

Client:	ECS Mid-Atlantic, LLC	**Instructions:*
Contact:	Lauren Kesslak	*Use Column "B" for your contact info*
Address:	14026 Thunderbolt Place, Suite	
Phone:	(703)-471-8400	*To See an Example Click the bottom Example Tab.*
Fax:		
Email:	Lkesslak@ecslimited.com	
Project:	11652-E2/ AHERA ACPS James K.	***Enter samples between "<<" and ">>" Begin Samples with a "<< "above the first sample and end with a ">>" below the last sample.***
Client Notes:		*Only Enter your date on the first sheet "Sheet1"*
P.O. #.	11652-E2/ AHERA ACPS James K.	*Note: Data 1 and Data 2 are optional fields that do not show up on the official report, however they will be included in the electronic data returned to you to facilitate your reintegration of the report data.*
Date Submitted:	11/12/2021 0:00	
Analysis:	PLM EPA 600/R-93/116	
TurnAroundTime:	3-Day	

Scientific Analytical Institute

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

Sample Number	Data 1	Sample Description	Data 2
<<			
1		4" black cove base with associated brown mastic	Main Office
2		4" black cove base with associated brown mastic	Main Office
3		4" cobalt blue cove base with associated cream mastic	Exit near Classroom 1 & 2
4		4" cobalt blue cove base with associated cream mastic	Exit near Classroom 1 & 2
5		18"x10" Gray vinyl self-stick floor tile	Classroom 5 & 6
6		18"x10" Gray vinyl self-stick floor tile	Classroom 5 & 6
7		12"x12" blue streak floor tile with associated brown mastic	1st Floor Teachers lounge (between Classrooms 8 & 10)
8		12"x12" blue streak floor tile with associated brown mastic	1st Floor Teachers lounge (between Classrooms 8 & 10)
9		2'x2' Rough finish ceiling tile	Closet by Classroom 54
10		2'x2' Rough finish ceiling tile	Closet by Classroom 54
11		Gray stair tread and associated mastic	Stairwell by exit 8
12		Gray stair tread and associated mastic	Stairwell by exit 8
13		2'x2' pinhole and fissure ceiling tile	Under stairwell by exit 8
14		2'x2' pinhole and fissure ceiling tile	Under stairwell by exit 8
15		Red pipe wall packing	Boiler room by Classroom44
16		Red pipe wall packing	Boiler room by Classroom44
17		Red pipe wall packing	Boiler room by Classroom44
18		12"x12" gray half inch square patterned floor tile (2nd layer) and associated brown mastic	Ramp to storage room/ crawl space to Classroom 36
19		12"x12" gray half inch square patterned floor tile (2nd layer) and associated brown mastic	Ramp to storage room/ crawl space to Classroom 36
20		Beige acoustic panels	Gym
21		Beige acoustic panels	Gym
22		6" white cove base and associated mastic	Gym
23		6" white cove base and associated mastic	Gym
24		Blue specked vinyl sheet floor tile and associated mastic	Gym entrance
25		Blue specked vinyl sheet floor tile and associated mastic	Gym entrance
26		12"x12" blue with white streak floor tile and associated brown mastic	Staff restroom near main office
27		12"x12" blue with white streak floor tile and associated brown mastic	Staff restroom near main office
<<			

Accepted ☒

Rejected ☐

11/18 11AM

Relinquished By

Received By

Appendix V: Certifications/ Licenses

COMMONWEALTH of VIRGINIA

Department of Professional and Occupational Regulation
9960 Mayland Drive, Suite 400, Richmond, VA 23233
Telephone: (804) 367-8500

EXPIRES ON
12-31-2022

NUMBER
3309002099

BOARD FOR ASBESTOS, LEAD, AND HOME INSPECTORS
ASBESTOS PROJECT MONITOR LICENSE

ZACHARY DAVID HARRELL
1927 N CAMERON ST
ARLINGTON, VA 22207

Mary Broz-Vaughan, Director

Status can be verified at http://www.dpor.virginia.gov

(SEE REVERSE SIDE FOR PRIVILEGES AND INSTRUCTIONS)

DPOR-LIC (02/2017)

(DETACH HERE)

DPOR COMMONWEALTH of VIRGINIA
Department of Professional and Occupational Regulation

BOARD FOR ASBESTOS, LEAD, AND HOME INSPECTORS
ASBESTOS PROJECT MONITOR LICENSE
NUMBER: 3309002099 EXPIRES: 12-31-2022

ZACHARY DAVID HARRELL
1927 N CAMERON ST
ARLINGTON, VA 22207

(FOLD)

Status can be verified at http://www.dpor.virginia.gov

DPOR-PC (02/2017)

COMMONWEALTH of VIRGINIA

Department of Professional and Occupational Regulation
9960 Mayland Drive, Suite 400, Richmond, VA 23233
Telephone: (804) 367-8500

EXPIRES ON
12-31-2022

NUMBER
3303004832

BOARD FOR ASBESTOS, LEAD, AND HOME INSPECTORS
ASBESTOS INSPECTOR LICENSE

ZACHARY DAVID HARRELL
1927 N CAMERON ST
ARLINGTON, VA 22207

DPOR

Mary Broz-Vaughan, Director

Status can be verified at http://www.dpor.virginia.gov

(SEE REVERSE SIDE FOR PRIVILEGES AND INSTRUCTIONS)

DPOR-LIC (02/2017)

(DETACH HERE)

DPOR COMMONWEALTH of VIRGINIA
Department of Professional and Occupational Regulation

BOARD FOR ASBESTOS, LEAD, AND HOME INSPECTORS
ASBESTOS INSPECTOR LICENSE
NUMBER: 3303004832 EXPIRES: 12-31-2022

ZACHARY DAVID HARRELL
1927 N CAMERON ST
ARLINGTON, VA 22207

(FOLD)

Status can be verified at http://www.dpor.virginia.gov

DPOR-PC (02/2017)

Appendix VI: AHERA ACBM and Suspect ACBM Categories Document

AHERA ACBM and Suspect ACBM Categories

(1) Damaged or significantly damaged thermal system insulation ACM:

- (1) Means thermal system insulation ACM on pipes, boilers, tanks, ducts, and other thermal system insulation equipment where the insulation has lost its structural integrity, or its covering, in whole or in part, is crushed, water stained, gouged, punctured, missing, or not intact such that it is not able to contain fibers. Damage may be further illustrated by occasional punctures, gouges or other signs of physical injury to ACM; occasional water damage on the protective coverings/jackets; or exposed ACM ends or joints. Asbestos debris originating from the ACBM in question may also indicate damage.

(2) Damaged friable surfacing ACM:

- (2) Means friable surfacing ACM which has deteriorated or sustained physical injury such that the internal structure (cohesion) of the material is inadequate or which has delaminated such that its bond to the substrate (adhesion) is inadequate, or which, for any other reason, lacks fiber cohesion or adhesion qualities. Such damage or deterioration may be illustrated by the separation of ACM into layers; separation of ACM from the substrate; flaking, blistering, or crumbling of the ACM surface; water damage; significant or repeated water stains, scrapes, gouges, mars or other signs of physical injury on the ACM. Asbestos debris originating from the ACBM in question may also indicate damage.

(3) Significantly damaged friable surfacing ACM:

- (3) Means damaged friable surfacing ACM in a functional space where the damage is extensive and severe.

(4) Damaged or significantly damaged friable miscellaneous ACM:

- (4) Means friable miscellaneous ACM which has deteriorated or sustained physical injury such that the internal structure (cohesion) of the material is inadequate or, if applicable, which has delaminated such that its bond to the substrate (adhesion) is inadequate or which for any other reason lacks fiber cohesion or adhesion qualities. Such damage or deterioration may be illustrated by the separation of ACM into layers; separation of ACM from the substrate; flaking, blistering, or crumbling of the ACM surface; water damage; significant or repeated water stains, scrapes, gouges, mars or other signs of physical injury on the ACM. Asbestos debris originating from the ACBM in question may also indicate damage.

(5) ACBM with potential for damage:

- (5) Means circumstances in which:

    - (1) Friable ACBM is in an area regularly used by building occupants, including maintenance personnel, in the course of their normal activities.

- (2) There are indications that there is a reasonable likelihood that the material or its covering will become damaged, deteriorated, or delaminated due to factors such as changes in building use, changes in operations and maintenance practices, changes in occupancy, or recurrent damage.

(6) ACBM with potential for significant damage:

- (6) Means circumstances in which:

  - (1) Friable ACBM is in an area regularly used by building occupants, including maintenance personnel, in the course of their normal activities.

  - (2) There are indications that there is a reasonable likelihood that the material or its covering will become significantly damaged, deteriorated, or delaminated due to factors such as changes in building use, changes in operations and maintenance practices, changes in occupancy, or recurrent damage.

  - (3) The material is subject to major or continuing disturbance, due to factors including, but not limited to, accessibility or, under certain circumstances, vibration or air erosion.

(7) Any remaining friable ACBM or friable suspected ACBM:

- (1) Means any remaining friable ACBM or friable Suspected ACBM in a building.

Appendix VII: Previous Reports

APPENDIX A

PREVIOUS REPORTS

JAMES K. POLK SCHOOL

Asbestos Sampling

A summary of materials found to contain asbestos or assumed to contain asbestos can be found in Table 1. A list of materials sampled and tested for asbestos content can be found in Table 3.

TABLE 1
ASBESTOS-CONTAINING MATERIALS SUMMARY

Location	Material	Friability
REPORTED ON PRIOR SURVEYS		
Boiler Room on Ground Floor (Assumed in other Areas)	White Mastic on Fiberglass Insulation	Category II Non-Friable
Mechanical Room on Ground Floor (Assumed in other Areas)	TSI-Mudded Elbows *	Friable
Mechanical Room on Ground Floor (Assumed in other Areas)	Black Pipe Insulation *	Category II Non-Friable
Hallways (Assumed in other Areas)	Fire Door Insulation	Friable
SAMPLED BY ECS ON NOVEMBER 19, 2013		
Storage/Crawl Space by Classroom 36 on Ground Floor (Assumed in other Areas)	Black Wrap on Fiberglass Pipe Insulation	Category II Non-Friable
Ramp to Storage/Crawl Space by Classroom 36 on Ground Floor (Assumed under 12” x 12” Floor Tile in other Areas)	9" x 9" Off-White Floor Tile and associated Black Mastic (under 12” x 12” Floor Tile)	Category I Non-Friable
Art Classroom 33 on 1st Floor (Assumed in other Areas)	Black Sink Undercoat	Friable

Location	Material	Friability
Storage Room in Stage on 1st Floor (Assumed above Drop Ceiling tiles in other Areas)	Black Mastic on Fiberglass 6" and 2" Pipe Insulation ** (above Drop Ceiling Tiles)	Category II Non-Friable
Food Storage Room in Kitchen on 1st Floor (Assumed in other Areas)	9" x 9" Gray/White Floor Tile and associated Black Mastic ***	Category I Non-Friable
Closet in Classrooms 10 and 12 on 1st Floor (Assumed under Carpet in other Areas)	Tan Floor Tile and associated Black Mastic (under Carpet)	Category I Non-Friable
MATERIALS ASSUMED TO CONTAIN ASBESTOS **		
Hallway	Flooring Materials under Existing 12" x 12" Floor Tiles	Category I Non-Friable
Throughout Building	Interior Pipe Wrap associated with Water Fountains and Radiators	Category II Non-Friable
Classrooms and Multipurpose Room	Wall Dividers	Category II Non-Friable
Gymnasium on 1st Floor	Tectum Sound Boards Mastic	Category II Non-Friable
Gymnasium on 1st Floor	Wood Floor Underlayment and associated Mastic	Category I Non-Friable
Hallways and Classrooms	Boards and associated Mastics	Category II Non-Friable
Pipes within chases behind walls and above ceiling throughout the building	Thermal System Insulation (TSI)	Friable
Throughout Building	Pipe Flange Gaskets	Unknown

Location	Material	Friability
Mechanical Rooms	Electric Panels: Transite Components	Category II Non-Friable
Bathrooms	Mirror Mastics	Category II Non-Friable
Behind Interior Finishes, Exterior Veneer and/or Subgrade Walls, and under Ceramic Flooring	Waterproofing Membranes/Mastics	Category II Non-Friable
Roof	Asphalt-Based Roofing Materials and Caulks/Sealants	Non-Friable

Notes: * These materials were observed to be painted in the location listed above.
** Residual material was observed on the concrete block wall above the drop ceiling tile in the Teacher Lounge Room on 1st floor.
*** Missing floor tiles were observed in the sampling location listed above.
**** These materials, if present, could not be reached at the time of the survey. These materials should be presumed to be asbestos-containing materials (ACMs).

Physical Assessment

A summary of the physical assessment category for each identified and presumed friable ACM can be found in Table 2.

TABLE 2
PHYSICAL ASSESSMENT OF FRIABLE
ASBESTOS CONTAINING MATERIALS

Location	Material	Physical Assessment Category
Mechanical Room on Ground Floor	TSI-Mudded Elbows	5 – ACBM with Potential for Damage
Hallways	Fire Door	7 – Any Remaining Friable ACBM
Art Classroom 33 on 1st Floor	Black Sink Undercoat	6 – ACBM with Potential for Significant Damage

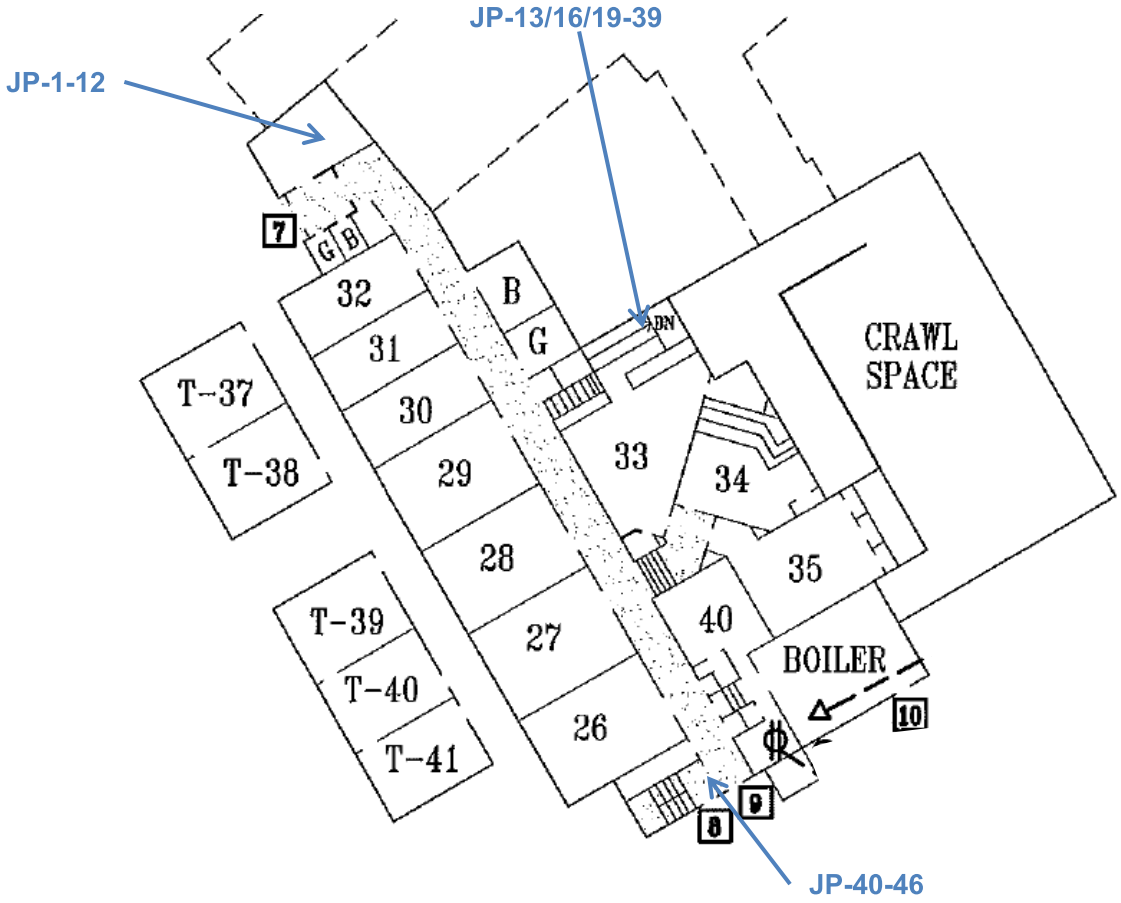
Recommendations

1) Missing asbestos-containing 9” x 9” gray/white floor tiles were observed in the food storage room in the kitchen on 1st floor. Identified asbestos-containing floor tiles and associated mastic were observed to be exposed in that area. Any damaged or missing 9” x 9” gray/white floor tile should be replaced as soon as possible to avoid future damage to the asbestos containing floor mastic.

APPENDIX B

FLOOR PLANS

Lower Level



Legend
- Sample Number

Notes
1. Sample Locations are estimated
2. Room numbers have changed since floor plan was created

JAMES POLK
5000 POLK AVENUE
ALEXANDRIA, VIRGINIA

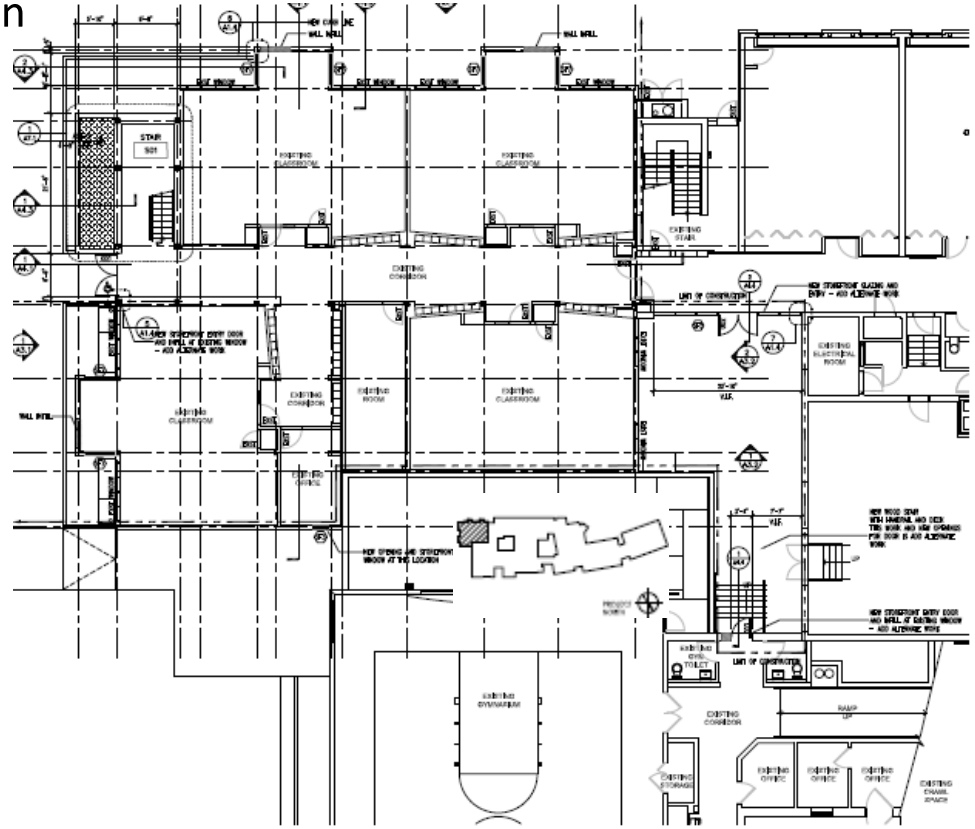
SAMPLING LOCATIONS
ACPS

SCALE NTS

Project No. 47:1519-D

Date 3/31/2017

Lower Level
Modular Addition





Legend
- Sample Number

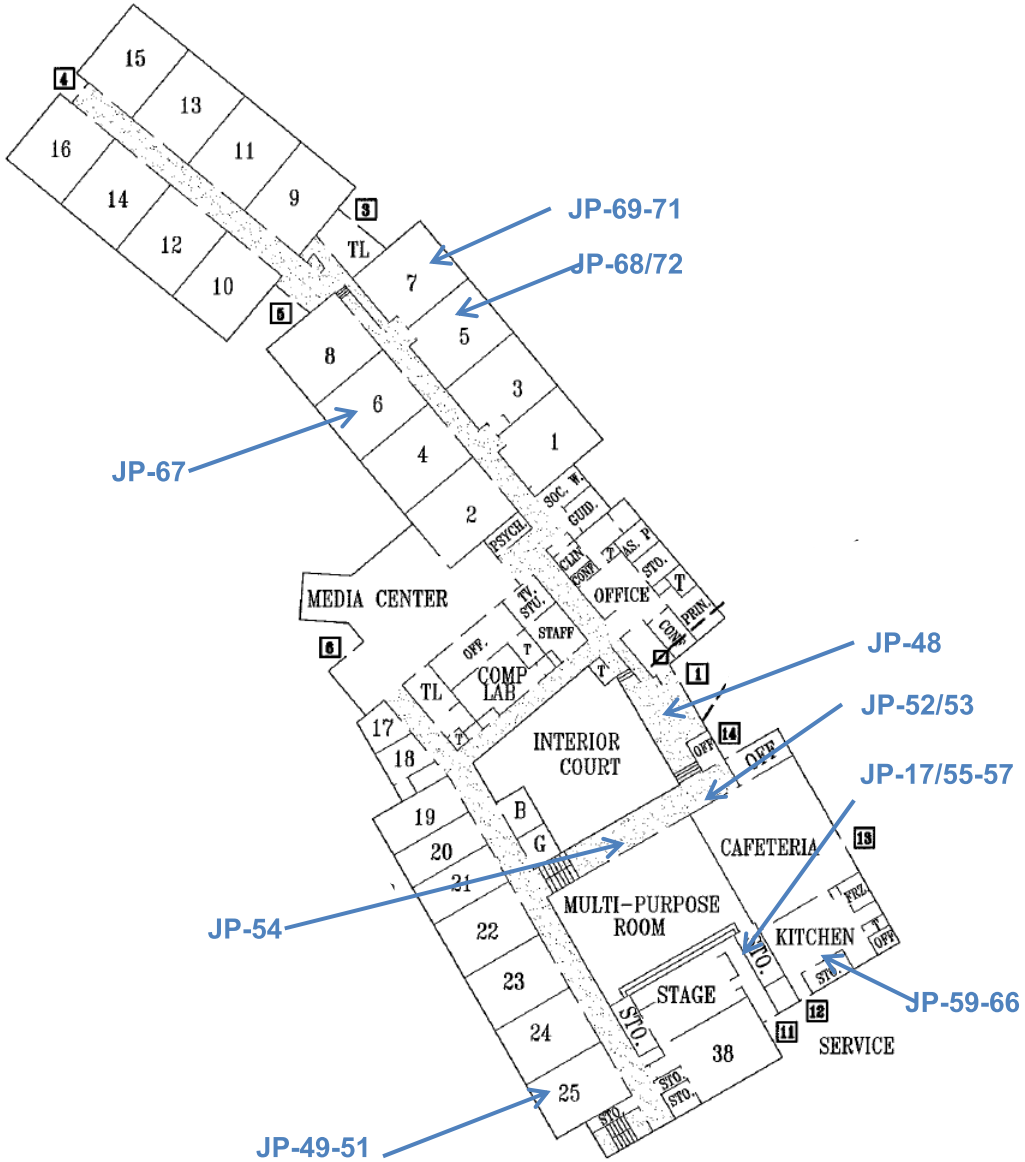
Notes
1. Sample Locations are estimated

JAMES POLK
5000 POLK AVENUE
ALEXANDRIA, VIRGINIA

SAMPLING LOCATIONS
ACPS

SCALE	NTS
Project No.	47:1519-D
Date	3/31/2017

1st FL



Legend
- Sample Number

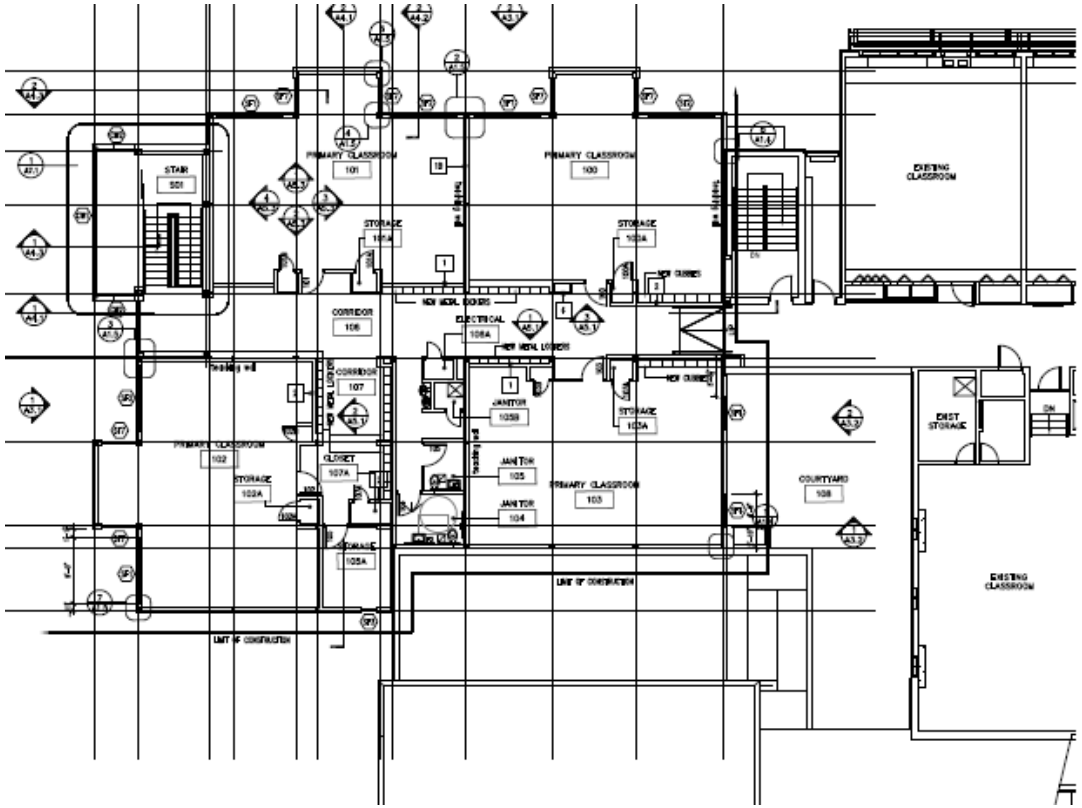
Notes
1. Sample Locations are estimated
2. Room numbers have changed since floor plan was created

JAMES POLK
5000 POLK AVENUE
ALEXANDRIA, VIRGINIA

SAMPLING LOCATIONS
ACPS

SCALE	NTS
Project No.	47:1519-D
Date	3/31/2017

1st FL Modular Addition





Legend
- Sample Number

Notes
1. Sample Locations are estimated

JAMES POLK
5000 POLK AVENUE
ALEXANDRIA, VIRGINIA

SAMPLING LOCATIONS
ACPS

SCALE	NTS
Project No.	47:1519-D
Date	3/31/2017

APPENDIX C

ASBESTOS SUMMARY TABLES

JAMES POLK ELEMENTARY SCHOOL
ACPS ASBESTOS CONTAINING MATERIALS SUMMARY

Updated as of December 29, 2016

MATERIAL	LOCATION	FRIABILITY	CONDITION	COMMENTS	LAST INSPECTION DATE	RECOMMENDATION	SEMI-ANNUAL INSPECTION DATE	REMARKS
MATERIALS REPORTED AS ASBESTOS-CONTAINING MATERIALS ON PRIOR SURVEYS								
TSI-Mudded Elbows	Mechanical Room	F	Intact	Reported as partially abated in Boiler Room. Assumed to be in other areas	29-Dec-16	Maintain in O & M Plan		Verify Analytical Results
White Mastic on Fiberglass Insulation	Boiler Room	NF	Intact	None	29-Dec-16	Maintain in O & M Plan		Verify Analytical Results
TSI-Boiler Breeching	Boiler Room	F	Removed 2010	Not Observed	29-Dec-16	Remove from O & M Plan		None
9" x 9" Grey and White Floor Tiles and associated Black Mastic	Custodian office	NF	Intact	Sampled as positive in Food Storage Area in Kitchen.	29-Dec-16	Maintain in O & M Plan		Verify Analytical Results
Black Pipe Insulation	Mechanical Room	F	Damaged	None	29-Dec-16	Repair or Remove ASAP; Maintain in O & M Plan		Verify Analytical Results
Fire Doors	Hallways	F	Intact	None	29-Dec-16	Maintain in O & M Plan		Verify Analytical Results
MATERIALS REPORTED AS ASBESTOS-CONTAINING MATERIALS ON PRIOR SURVEYS THAT WERE NOT IDENTIFIED/OBSERVED BY ECS IN NOVEMBER 19, 2013 SURVEY								
Spray-on Material	Lounge Room and Main Office	F	N/A	Residual black pipe mastic observed above ceiling tile	29-Dec-16	Maintain in O & M Plan		Not observed - Verify removal or Sample if proposed to be disturbed
Black mastic Duct Insulation	Multipurpose Room/Stage	NF	N/A		29-Dec-16	Maintain in O & M Plan		Verify removal or Sample if proposed to be disturbed
TSI-Mudded Elbows/Joints	Stage Storage Room	F	N/A	Black mastic was observed on fiberglass pipe in this area	29-Dec-16	Maintain in O & M Plan		Not observed - Verify removal or Sample if proposed to be disturbed
Grey Vibration Damper	Stage Storage Room	F	N/A	This material is reported as ACM; however it was not observed in this area.	29-Dec-16	Maintain in O & M Plan		Not observed - Verify removal or Sample if proposed to be disturbed
White Mastic on Steel Support Beams	Upper Level School	NF	N/A	This material is reported as ACM	29-Dec-16	Maintain in O & M Plan		Verify removal or Sample if proposed to be disturbed
Heavy Textured Ceiling	Hallway outside Multipurpose Room	F	N/A	This material is reported as PACM	29-Dec-16	Maintain in O & M Plan		Intact, Sampling if proposed to be disturbed
Wall Dividers	Throughout Classrooms	NF	N/A	This material is reported as PACM	29-Dec-16	Maintain in O & M Plan		Intact, Sampling if proposed to be disturbed

JAMES POLK ELEMENTARY SCHOOL
ACPS ASBESTOS CONTAINING MATERIALS SUMMARY

MATERIAL	LOCATION	FRIABILITY	CONDITION	COMMENTS	LAST INSPECTION DATE	RECOMMENDATION	SEMI-ANNUAL INSPECTION DATE	REMARKS
ASBESTOS CONTAINING MATERIALS SAMPLED BY ECS IN NOVEMBER 19, 2013 SURVEY								
Black Wrap on Fiberglass Pipe Insulation	Storage/Crawlspace by Classroom 36	F	Intact	This material is assumed to be present in other areas	29-Dec-16	Add to O & M Plan		Asbestos: Floor Tile - 5% Chrysotile
9" x 9" Off-White Floor Tile and Associated Black Mastic	Ramp to Storage/Crawl Space by Classroom 36	NF	Intact	Observed under 12" x 12" floor tile. This material is assumed to be present under 12"x 12" floor tile in other areas	29-Dec-16	Add to O & M Plan		Asbestos: Floor Tile - 3% Chrysotile Mastic - 8% Chrysotile
Black Sink Undercoat	Art Classroom 33	NF	Intact	Not observed in this area, but is assumed to be present in other areas	29-Dec-16	Add to O & M Plan		Asbestos: Floor Tile - 5% Chrysotile
Black Mastic on Fiberglass 6" Pipe Insulation (above Drop Ceiling Tiles)	Storage Room in Stage	NF	Intact	This material is assumed to be present above drop ceiling tiles in other areas	29-Dec-16	Add to O & M Plan		Asbestos: Floor Tile - 10% Chrysotile
9" x 9" Gray/White Floor Tile and Associated Black Mastic	Food Storage Room in Kitchen	NF	Intact	This material is assumed to be present in other areas	29-Dec-16	Add to O & M Plan		Asbestos: Floor Tile - 3% Chrysotile Mastic - 5% Chrysotile
Tan Floor Tile and Associated Black Mastic (under Carpet)	Closet in Classroom 10	NF	Intact	This material is assumed to be present under carpet in other areas	29-Dec-16	Add to O & M Plan		Asbestos: Floor Tile - 3% Chrysotile Mastic - 8% Chrysotile
MATERIALS ASSUMED TO CONTAIN ASBESTOS								
9" x 9" Tan/White Floor Tiles and Associated Mastic	Classrooms Closets	NF	Intact	PACM until tested; under carpet	29-Dec-16	Maintain in O & M Plan		Sample if proposed to be disturbed
Wall Dividers	Throughout Classrooms	NF	Intact	PACM until tested	29-Dec-16	Maintain in O & M Plan		Sample if proposed to be disturbed
Tectum Sound Boards and associated Mastic	Multipurpose Room	NF	Intact	PACM until tested. This material is similar to the samples No. JP-22/27	29-Dec-16	Maintain in O & M Plan		Sample if proposed to be disturbed
Textured Plaster Ceiling	Stage, Hallway at Cafeteria, and Multipurpose Entrance	F	Intact	Sampled as NAD at the Cafeteria and Multipurpose entrances by ECS.	29-Dec-16	Maintain in O & M Plan		None
Gypsum Board Roof	Throughout Building	NF	Intact	Sampled as NAD in Teacher's Lounge by ECS	29-Dec-16	Remove from O & M Plan		None
Grey Sink Underlayment Mastic	Classrooms	NF	Intact	Sampled as NAD in Classroom 10, 11, and 12 by ECS	29-Dec-16	Remove from O & M Plan		None

JAMES POLK ELEMENTARY SCHOOL
ACPS ASBESTOS CONTAINING MATERIALS SUMMARY

MATERIAL	LOCATION	FRIABILITY	CONDITION	COMMENTS	LAST INSPECTION DATE	RECOMMENDATION	SEMI-ANNUAL INSPECTION DATE	REMARKS
Drywall/Joint Compound	Throughout Building	NF	Intact	Sampled as NAD in Storage/Crawl Space by Classroom 36, Storage Room in Stage, and Teacher's Lounge	29-Dec-16	Maintain in O & M Plan		None
Stair Tread and Risers	Throughout Building	NF	Intact	Sampled as NAD at Exit Door 8 by ECS	29-Dec-16	Maintain in O & M Plan		None
Pipe Flange Gaskets	Throughout the Building	Unknown	Intact	PACM until tested	29-Dec-16	Add to O & M Plan		Sample if proposed to be disturbed
Electrical Panels: Transite Components	Mechanical Rooms	NF	Intact	PACM until tested	29-Dec-16	Add to O & M Plan		Sample if proposed to be disturbed
Thermal System Insulation (TSI)	Pipes within Chases behind Walls and above Ceiling throughout Building	F	Not Observed	PACM Until Tested	29-Dec-16	Add to O & M Plan		Sample if proposed to be disturbed
Mirror Mastic	Bathrooms	NF	Intact	PACM until tested	29-Dec-16	Add to O & M Plan		Sample if proposed to be disturbed
Boards and associated Mastics	Classrooms and Hallways	NF	Intact	PACM until tested	29-Dec-16	Add to O & M Plan		Sample if proposed to be disturbed
Interior Pipe Wrap associated with Water Fountains and Radiators	Throughout the Building	F	Intact	PACM until tested	29-Dec-16	Add to O & M Plan		Sample if proposed to be disturbed
Waterproofing Membranes/Mastics	Behind Interior Finishes, Exterior Veneer and/or Subgrade Walls, and Under Ceramic Flooring	NF	Intact	PACM until tested	29-Dec-16	Add to O & M Plan		Sample if proposed to be disturbed
Asphalt-Based Roofing Material and Caulks/Sealants	Roof	NF	Intact	PACM until tested	29-Dec-16	Add to O & M Plan		Sample if proposed to be disturbed
NON-ASBESTOS CONTAINING MATERIALS SAMPLED BY ECS IN NOVEMBER 19, 2013 SURVEY								
Brown Mastic associated with 9" x 9" Tan Floor Tiles	Electrical Room	N/A	N/A	9" x 9" Tan Floor Tile is above listed as ACM	N/A	N/A	N/A	Mastic - NAD
2' x 4' White Pinhole Punch Ceiling Tiles	Hallway on Ground Floor by Mechanical Room	N/A	N/A	N/A	N/A	N/A	N/A	NAD
Brown Mastic Associated with Blackboard	Hallway on Ground Floor by Mechanical Room	N/A	N/A	N/A	N/A	N/A	N/A	NAD
Brown Mastic Associated with Blackboard	Hallway on Ground Floor by Mechanical Room	N/A	N/A	N/A	N/A	N/A	N/A	NAD
White Mastic on Fiberglass Duct Insulation	Hallway on Ground Floor by Mechanical Room	N/A	N/A	N/A	N/A	N/A	N/A	NAD
Black Mastic on Fiberglass Pipe Insulation	Hallway on Ground Floor by Mechanical Room	N/A	N/A	N/A	N/A	N/A	N/A	NAD

JAMES POLK ELEMENTARY SCHOOL
ACPS ASBESTOS CONTAINING MATERIALS SUMMARY

MATERIAL	LOCATION	FRIABILITY	CONDITION	COMMENTS	LAST INSPECTION DATE	RECOMMENDATION	SEMI-ANNUAL INSPECTION DATE	REMARKS
Drywall	Storage/Crawl Space by Classroom 36, Storage Room in Stage, and Teacher's Lounge	N/A	N/A	N/A	N/A	N/A	N/A	NAD
Joint Compound	Storage/Crawl Space by Classroom 36, Storage Room in Stage, and Teacher's Lounge	N/A	N/A	N/A	N/A	N/A	N/A	NAD
2' x 4' Beige "Bird-Nest" Ceiling Tile	Storage/Crawl Space by Classroom 36	N/A	N/A	N/A	N/A	N/A	N/A	NAD
Black Ceiling Mastic Associated with 2' x 4' Beige "Bird-Nest" Ceiling Tile	Storage/Crawl Space by Classroom 36	N/A	N/A	N/A	N/A	N/A	N/A	NAD
4" Tan Cove Base and Associated Beige Mastic	Ramp to Storage/Crawl Space by Classroom 36	N/A	N/A	N/A	N/A	N/A	N/A	Cove base - NAD Mastic - NAD
12" x 12" Black/Brown/White Textured Floor Tile and Leveling Compound/Brown Mastic	Ramp to Storage/Crawl Space by Classroom 36	N/A	N/A	N/A	N/A	N/A	N/A	Floor Tile - NAD Mastic - NAD
Gray Floor Tile and Associated Yellow/Brown Mastic under 12" x 12" Floor Tile	Ramp to Storage/Crawl Space by Classroom 36	N/A	N/A	N/A	N/A	N/A	N/A	Floor Tile - NAD Mastic - NAD
Red/Black Floor Mastic and Leveling Compound	Exit Door 8 (under Gray Stair Tread)	N/A	N/A	N/A	N/A	N/A	N/A	Mastic - NAD Leveling - NAD
Grey Stair Tread	Exit Door 8	N/A	N/A	N/A	N/A	N/A	N/A	NAD
Green Interior Window Caulk	Stairwell above Exit Door 8, Art Classroom 33, and Main Entrance	N/A	N/A	N/A	N/A	N/A	N/A	NAD
Textured Plaster Wall	Above Entrance to the Cafeteria and Above Entrance to the Multipurpose Room	N/A	N/A	N/A	N/A	N/A	N/A	NAD
Brown Ceiling Insulation Associated with White Metal Pinhole Ceiling Tile	Kitchen	N/A	N/A	N/A	N/A	N/A	N/A	NAD
Brown Ceiling Mastic Associated with White Metal Pinhole Ceiling Tile	Kitchen	N/A	N/A	N/A	N/A	N/A	N/A	NAD
Gray Sink Undercoat	Classroom 10, 11, and 12	N/A	N/A	N/A	N/A	N/A	N/A	NAD
Gypsum Board Roof	Teacher Lounge Room	N/A	N/A	N/A	N/A	N/A	N/A	NAD

JAMES POLK ELEMENTARY SCHOOL
ACPS ASBESTOS CONTAINING MATERIALS SUMMARY

MATERIAL	LOCATION	FRIABILITY	CONDITION	COMMENTS	LAST INSPECTION DATE	RECOMMENDATION	SEMI-ANNUAL INSPECTION DATE	REMARKS
NON-ASBESTOS CONTAINING MATERIALS SAMPLED BY ECS ON DECEMBER 29, 2016 SURVEY								
12" x 12" White with Green/Orange Flecks Floor Tile & Yellow Mastic	Northern Hallway	N/A	N/A	N/A	N/A	N/A	N/A	NAD
4" Blue Cove base & Cream Mastic	Room #14	N/A	N/A	N/A	N/A	N/A	N/A	NAD
Black Stone-like Window Sill	Teacher's Lounge	N/A	N/A	N/A	N/A	N/A	N/A	NAD
12" x 12" White w/ Blue/Orange Flecks Floor Tile & Yellow Mastic	Teacher's Lounge	N/A	N/A	N/A	N/A	N/A	N/A	NAD
12" x 12" Gray Floor Tile & Yellow Mastic	New Addition- Hallway	N/A	N/A	N/A	N/A	N/A	N/A	NAD
4" Gray Cove Base & Mastic	New Addition- Hallway	N/A	N/A	N/A	N/A	N/A	N/A	NAD
2' x 2' Ceiling Tile	New Addition- Hallway	N/A	N/A	N/A	N/A	N/A	N/A	NAD

Notes: F = Friable; NF = Non-Friable; PACM = Presumed Asbestos Containing Material; O & M Plan = Operations and Maintenance Plan; NAD = No Asbestos Detected, N/A = Not Applicable.

James Polk Elementary School 3-Year AHERA Re-Inspection Survey
Asbestos-Containing Materials Summary

Date: December 29, 2016

Address: 5000 Polk Avenue, Alexandria, Virginia

Room	Material	Condition	Abated
Mechanical Room	TSI-Mudded Elbows	Not Observed	No
Boiler Room	White Mastic on Fiberglass Insulation	Intact	No
Boiler Room	TSI-Boiler Breeching	Not Observed	No
Custodian office	9" x 9" Grey and White Floor Tiles and associated Black Mastic	Intact	No
Mechanical Room	Black Pipe Insulation	Intact	No
Hallways	Fire Doors	Intact	No
Lounge Room and Main Office	Spray-on Material	Not Observed	No
Multipurpose Room/Stage	Black mastic Duct Insulation	Intact	No
Stage Storage Room	TSI-Mudded Elbows/Joints	Not Observed	No
Stage Storage Room	Grey Vibration Damper	Not Observed	No
Upper Level School	White Mastic on Steel Support Beams	Intact	No
Hallway outside Multipurpose Room	Heavy Textured Ceiling	Intact	No
Throughout Classrooms	Wall Dividers	Intact	No

Room	Material	Condition	Abated
Storage/Crawlspace by Classroom 36	Black Wrap on Fiberglass Pipe Insulation	Intact	No
Ramp to Storage/Crawl Space by Classroom 36	9" x 9" Off-White Floor Tile and Associated Black Mastic	Not Observed, May Be Beneath Newer flooring	No
Art Classroom 33	Black Sink Undercoat	Not Observed	No
Storage Room in Stage	Black Mastic on Fiberglass 6" Pipe Insulation (above Drop Ceiling Tiles)	No Access	No
Food Storage Room in Kitchen	9" x 9" Gray/White Floor Tile and Associated Black Mastic	Not Observed	No
Closet in Classroom 10	Tan Floor Tile and Associated Black Mastic (under Carpet)	Intact	No
Comments			

AHERA Inspector: Brian Wasserstein **License No:** 3303004080

Signature of Inspector: 

APPENDIX Q

HISTORICAL INFORMATION

MasiMax
Resources, Inc.

THREE-YEAR REINSPECTION OF ASBESTOS-CONTAINING MATERIALS
ALEXANDRIA CITY PUBLIC SCHOOL SYSTEMS (ACPS)
James Polk Elementary School
August 10, 2007

MasiMax Resources Inc. – Environmental Health & Safety Services (MasiMax) conducted the Three Year Re-Inspection of Asbestos-Containing Materials (ACM) at the James Polk Elementary School on June 20, 2007. The purpose of the re-inspection was to assess the condition of all friable and non-friable Asbestos Containing Building Materials (ACBMs) listed as present from the previous triennial re-inspection.

The Scope of Work included a review of the Asbestos Operations & Management Plan (O&M), asbestos inspection and assessment of ACBM, and updated recommended response actions based on the condition of the ACBM.

All tasks were performed in accordance with re-inspection and assessment criteria established by the Environmental Protection Agency (EPA) Asbestos Hazard Emergency Response Act (AHERA), 40 CFR, Part 763.85 and Part 763.88. Each homogeneous area of ACM identified by the previous triennial re-inspection report was inspected. Additionally, the quantity, type, current conditions and recommendations are provided in the table presented in Attachment A.

MasiMax's performed an assessment of the school's asbestos O&M to review if the information required by AHERA is present and current. A checklist of the assessment findings is presented in Attachment B. Included in the checklist is the Local Education Agency's (LEA) designated person listed in the on-site O&M plan; however, ACPS should verify if this information is current.

The re-inspection was conducted by Virginia state licensed asbestos inspectors. All work was directed and supervised by a Certified Industrial Hygienist (CIH) who is also licensed by the State of Virginia as an Asbestos Management Planner. Copies of the Virginia asbestos inspector and management planner licenses are presented in Attachment C.

Under the AHERA requirements 763.93, a copy of the triennial re-inspection report shall be included in the ACPS's Management Plan. In addition, all six (6) month periodic inspection reports, response actions conducted at the school, and personnel training records shall be included in the Management Plan. It is the responsibility of the LEA designated person to ensure the Management Plan is updated regularly and made available to any interested party.

Mark Schneider, CIH, PG, LAC
VA Management Planner # 3304 001536
Exp. 06/30/2008

Bjarne Smith
VA Asbestos Inspector # 3303 002764
Exp. 08/31/2007

Amy Chang
VA Asbestos Inspector # 3303 002399
Exp. 05-31-2008

Corporate Headquarters
1375 Piccard Drive • Suite 175 • Rockville, MD 20850
Phone: 240-632-0610 • Fax: 240-632-0519 • www.masimax.com

Environmental Health and Safety Services
11417 Sunset Hills Road • Suite 225 • Reston, VA 20190
Phone: 571-203-7766 • Fax: 571-203-7911

CHECKLIST FOR ALEXANDRIA CITY PUBIC SCHOOLS AHERA MANAGEMENT PLANS

SCHOOL NAME: James Polk

Yes No

■ ☐ Name and address of school, including a statement of whether the facility has friable, non-friable ACBM, suspect friable ACBM, or suspect non-friable ACBM.

Comments: _____

Yes

■ LEA – Designated Person

Name: William Simms Phone #: 703-823-9666

Yes No

■ ☐ Initial Inspection Reports including:

- Date of inspection;
- Diagram or description of ACBM material locations;
- Bulk sample analysis report;
- Initial response action recommendations;
- Assessment of asbestos materials; and,
- Signature, state, and accreditation # of inspector(s).

Comments: _____

Yes No

☐ ■ Records of all response actions for the last three (3) years (or longer), including:

- Detailed description of response actions;
- Air sample results;
- Signature, state, and accreditation of air sampler;
- Signature, state and accreditation of designer; and,
- Signature, state, and accreditation of contractor.

Comments: _____

Yes No

■ ☐ Recommendations for all response actions.

Comments: _____

Yes No

■ ☐ Signature, State, and accreditation of Management Planner, Inspector(s), Designer(s), and Contractor(s) for initial and all re-inspections.

Comments: 2004 re-inspection report present.

Yes No

☐ ■ 6-Month O&M Inspections

Comments: _____

Inspector (s): Bjarne Smith and Amy Chang Date: 6/20/2007

Management Planner: _____ Date: 08/07/2007

City of Alexandria - AHERA Inspection

School **James K. Polk** Date 6/21/2007 Inspector(s) Bjarne Smith & Amy Chang

Location	Material	Size	Color	Amount	Unit	Comment	Class	Friable	Damage	Damage Location	Damage Amount	Damage Description	Recommend-ation
Boiler Room	TSI-elbows, joints	ALL	N/A	55	EA	Mostly removed	1	Yes	Yes	Isolated Areas	5 EA	Impact water	O & M
Boiler Room	Mastic on fiberglass insulation	ALL	White	ALL	ALL	Good condition	0	No	No	N/A	N/A	N/A	O & M
Boiler Room	TSI-tank insulation	ALL	N/A	150	SF	Removed	1	Yes	Yes	Distributed	3 SF	Deterioration	N/A
Boiler Room	Hot water tank insulation	large	Light brown	150	SF	Removed	0	No	No	N/A	N/A	N/A	N/A
Boiler Room	TSI-boiler insulation	ALL	N/A	220	SF	Boilers #1 & #2 - removed	5	No	No	N/A	N/A	N/A	O & M

City of Alexandria - AHERA Inspection

School **James K. Polk** Date 6/21/2007 Inspector(s) Bjarne Smith & Amy Chang

Location	Material	Size	Color	Amount	Unit	Comment	Class	Friable	Damage	Damage Location	Damage Amount	Damage Description	Recommend-ation
Boiler Room Boiler	TSI-boiler breeching	ALL	N/A	250	SF	Good condition	5	No	No	N/A	N/A	N/A	O & M
Custodian Office	Grey & white Floor tile	9 x 9	Gray	ALL	ALL	Good condition	5	No	No	N/A	N/A	Impact	O & M
Custodian Office	Mastic	ALL	Black	ALL	ALL	Good condition	5	No	No	N/A	N/A	Impact	O & M
Electrical Room	TSI-elbows	3 in	Gray	3	EA	Good condition	1	Yes	Yes	Electrical room next to boiler room			O & M
Electrical Room	Pipe Insulation	ALL	Black	ALL	ALL	Good condition	5	No	No	N/A	N/A	N/A	O & M

City of Alexandria - AHERA Inspection

School **James K. Polk** Date 6/21/2007 Inspector(s) Bjarne Smith & Amy Chang

Location	Material	Size	Color	Amount	Unit	Comment	Class	Friable	Damage	Damage Location	Damage Amount	Damage Description	Recommend-ation
Hallways	Fire Doors	door	Various	All	ALL	Good condition	5	No	No	N/A	N/A	N/A	O & M
Lounge Room across from rm 18	Spray-on beam insulation	large	color	ALL	ALL	Damaged, debris on Ceiling Tiles	0	Yes	Yes	Above drop ceiling	ALL	Air Erosion	Repair/Remove
Main Office	Spray-on	ALL	Gray	ALL	ALL	Debris above suspended CT	0	No	Yes	Above drop ceiling, entire office	ALL-very damaged	Air Erosion	Repair/Remove
Multipupose Room/stage	Mastic Duct Insulation	ALL	Black	ALL	ALL	Could not locate,area above CT was inaccessible	5	No	No	S.E. corner	N/A	N/A	O & M
Stage storage room	TSI-elbows, joints	ALL	N/A	22	EA	Some removed; duct tape present	1	Yes	Yes	Distributed	10 EA	Impact vibrate	O & M

City of Alexandria - AHERA Inspection

School **James K. Polk** Date 6/21/2007 Inspector(s) Bjarne Smith & Amy Chang

Location	Material	Size	Color	Amount	Unit	Comment	Class	Friable	Damage	Damage Location	Damage Amount	Damage Description	Recommend-ation
Stage storage room	Vibration Damper	ALL	Gray	1	EA	Intact	5	No	No	N/A	N/A	N/A	O & M
Upper level of school	Mastic on steel support beams used as ceiling adhesive	ALL	White	ALL	ALL	Unable to locate	0	No	No	N/A	N/A	N/A	O & M

MATERIAL	LOCATION	FRIABILITY	CONDITION	COMMENTS	LAST INSPECTION DATE	RECOMMENDATION	SEMI-ANNUAL INSPECTION DATE	REMARKS
MATERIALS REPORTED AS ASBESTOS-CONTAINING MATERIALS ON PRIOR SURVEYS								
TSI-Mudded Elbows	Mechanical Room	F	Intact	Reported as partially abated in Boiler Room. Assumed to be in other areas	19-Nov-13	Maintain in O & M Plan	19-May-14	Verify Analytical Results
White Mastic on Fiberglass Insulation	Boiler Room	NF	Intact	None	19-Nov-13	Maintain in O & M Plan	19-May-14	Verify Analytical Results
TSI-Boiler Breeching	Boiler Room	F	Removed 2010	N/A	19-Nov-13	Remove from O & M Plan	19-May-14	None
9" x 9" Grey and White Floor Tiles and associated Black Mastic	Custodian office	NF	Intact	Sampled as positive in Food Storage Area in Kitchen.	19-Nov-13	Maintain in O & M Plan	19-May-14	Verify Analytical Results
Black Pipe Insulation	Mechanical Room	NF	Damaged	None	19-Nov-13	Repair or Remove ASAP; Maintain in O & M Plan	19-May-14	Verify Analytical Results
Fire Doors	Hallways	F	Intact	None	19-Nov-13	Maintain in O & M Plan	19-May-14	Verify Analytical Results
MATERIALS REPORTED AS ASBESTOS-CONTAINING MATERIALS ON PRIOR SURVEYS THAT WERE NOT IDENTIFIED/OBSERVED BY ECS IN NOVEMBER 19, 2013 SURVEY								
Spray-on Material	Lounge Room and Main Office	F	N/A	Residual black pipe mastic observed above ceiling tile	19-Nov-13	Maintain in O & M Plan	19-May-14	Not observed - Verify removal or sampling if encountered/uncovered
Black mastic Duct Insulation	Multipurpose Room/Stage	NF	N/A	Inaccessible ceiling tile	19-Nov-13	Maintain in O & M Plan	19-May-14	Not observed - Verify removal or sampling if encountered/uncovered
TSI-Mudded Elbows/Joints	Stage Storage Room	NF	N/A	Black mastic was observed on fiberglass pipe in this area	19-Nov-13	Maintain in O & M Plan	19-May-14	Not observed - Verify removal or sampling if encountered/uncovered
Grey Vibration Damper	Stage Storage Room	NF	N/A	This material is reported as ACM; however it was not observed in this area.	19-Nov-13	Maintain in O & M Plan	19-May-14	Not observed - Verify removal or sampling if encountered/uncovered
White Mastic on Steel Support Beams	Upper Level School	NF	N/A	This material is reported as ACM; however it was not observed in this area.	19-Nov-13	Maintain in O & M Plan	19-May-14	Not observed - Verify removal or sampling if encountered/uncovered
Heavy Textured Ceiling	Hallway outside Multipurpose Room	NF	N/A	This material is reported as PACM; however it was not observed in this area.	19-Nov-13	Maintain in O & M Plan	19-May-14	Sampling if encountered/uncovered
Wall Dividers	Throughout Classrooms	NF	N/A	This material is reported as PACM; however it was not observed in this area.	19-Nov-13	Maintain in O & M Plan	19-May-14	Sampling if encountered/uncovered
ASBESTOS CONTAINING MATERIALS SAMPLED BY ECS IN NOVEMBER 19, 2013 SURVEY								
Black Wrap on Fiberglass Pipe Insulation	Storage/Crawlspace by Classroom 36	NF	Intact	This material is assumed to be present in other areas	19-Nov-13	Add to O & M Plan	19-May-14	Asbestos: Floor Tile - 5% Chrysotile
9" x 9" Off-White Floor Tile and Associated Black Mastic	Ramp to Storage/Crawl Space by Classroom 36	NF	Intact	Observed under 12" x 12" floor tile. This material is assumed to be present under 12"x 12" floor tile in other areas	19-Nov-13	Add to O & M Plan	19-May-14	Asbestos: Floor Tile - 3% Chrysotile Mastic - 8% Chrysotile
Black Sink Undercoat	Art Classroom 33	F	Intact	This material is assumed to be present in other areas	19-Nov-13	Add to O & M Plan	19-May-14	Asbestos: Floor Tile - 5% Chrysotile
Black Mastic on Fiberglass 6" Pipe Insulation (above Drop Ceiling Tiles)	Storage Room in Stage	NF	Intact	This material is assumed to be present above drop ceiling tiles in other areas	19-Nov-13	Add to O & M Plan	19-May-14	Asbestos: Floor Tile - 10% Chrysotile
9" x 9" Gray/White Floor Tile and Associated Black Mastic	Food Storage Room in Kitchen	NF	Intact	This material is assumed to be present in other areas	19-Nov-13	Add to O & M Plan	19-May-14	Asbestos: Floor Tile - 3% Chrysotile Mastic - 5% Chrysotile
Tan Floor Tile and Associated Black Mastic (under Carpet)	Closet in Classroom 10	NF	Intact	This material is assumed to be present under carpet in other areas	19-Nov-13	Add to O & M Plan	19-May-14	Asbestos: Floor Tile - 3% Chrysotile Mastic - 8% Chrysotile
MATERIALS ASSUMED TO CONTAIN ASBESTOS								

9" x 9" Tan/White Floor Tiles and Associated Mastic	Classrooms Closets	NF	Intact	PACM until tested; under carpet	19-Nov-13	Maintain in O & M Plan	19-May-14	Sampling if encountered/uncovered
Wall Dividers	Throughout Classrooms	NF	Intact	PACM until tested	19-Nov-13	Maintain in O & M Plan	19-May-14	Sampling if encountered/uncovered
Tectum Sound Boards and associated Mastic	Multipurpose Room	NF	Intact	PACM until tested. This material is similar to the samples No. JP-22/27collected by ECS.	19-Nov-13	Maintain in O & M Plan	19-May-14	Sampling if encountered/uncovered
Textured Plaster Ceiling	Stage, Hallway at Cafeteria, and Multipurpose Entrance	NF	Intact	Sampled as NAD at the Cafeteria and Multipurpose entrances by ECS.	19-Nov-13	Remove from O & M Plan	19-May-14	None
Gypsum Board Roof	Throughout Building	NF	Intact	Sampled as NAD in Teacher's Lounge by ECS	18-Nov-13	Remove from O & M Plan	19-May-14	None
Grey Sink Underlayment Mastic	Classrooms	F	Intact	Sampled as NAD in Classroom 10, 11, and 12 by ECS	19-Nov-13	Remove from O & M Plan	19-May-14	None
Drywall/Joint Compound	Throughout Building	NF	Intact	Sampled as NAD in Storage/Crawl Space by Classroom 36, Storage Room in Stage, and Teacher's Lounge by ECS	19-Nov-13	Remove from O & M Plan	19-May-14	None
Stair Tread and Risers	Throughout Building	NF	Intact	Sampled as NAD at Exit Door 8 by ECS	19-Nov-13	Remove from O & M Plan	20-May-14	None
Pipe Flange Gaskets	Throughout the Building	Unknown	Intact	PACM until tested	19-Nov-13	Add to O & M Plan	19-May-14	Sampling if encountered/uncovered
Electrical Panels: Transite Components	Mechanical Rooms	NF	Intact	PACM until tested	19-Nov-13	Add to O & M Plan	19-May-14	Sampling if encountered/uncovered
Thermal System Insulation (TSI)	Pipes within Chases behind Walls and above Ceiling throughout Building	F	Not Observed	PACM Until Tested	19-Nov-13	Add to O & M Plan	19-May-14	Sampling if encountered/uncovered
Mirror Mastic	Bathrooms	NF	Intact	PACM until tested	19-Nov-13	Add to O & M Plan	19-May-14	Sampling if encountered/uncovered
Boards and associated Mastics	Classrooms and Hallways	NF	Intact	PACM until tested	19-Nov-13	Add to O & M Plan	19-May-14	Sampling if encountered/uncovered
Interior Pipe Wrap associated with Water Fountains and Radiators	Throughout the Building	NF	Intact	PACM until tested	19-Nov-13	Add to O & M Plan	19-May-14	Sampling if encountered/uncovered
Waterproofing Membranes/Mastics	Behind Interior Finishes, Exterior Veneer and/or Subgrade Walls, and Under Ceramic Flooring	NF	Intact	PACM until tested	19-Nov-13	Add to O & M Plan	19-May-14	Sampling if encountered/uncovered
Asphalt-Based Roofing Material and Caulks/Sealants	Roof	NF	Intact	PACM until tested	19-Nov-13	Add to O & M Plan	19-May-14	Sampling if encountered/uncovered
NON-ASBESTOS CONTAINING MATERIALS SAMPLED BY ECS IN NOVEMBER 19, 2013 SURVEY								
Brown Mastic associated with 9" x 9" Tan Floor Tiles	Electrical Room	N/A	N/A	9" x 9" Tan Floor Tile is above listed as ACM	N/A	N/A	N/A	Mastic - NAD
2' x 4' White Pinhole Punch Ceiling Tiles	Hallway on Ground Floor by Mechanical Room	N/A	N/A	N/A	N/A	N/A	N/A	NAD
Brown Mastic Associated with Blackboard	Hallway on Ground Floor by Mechanical Room	N/A	N/A	N/A	N/A	N/A	N/A	NAD
Brown Mastic Associated with Blackboard	Hallway on Ground Floor by Mechanical Room	N/A	N/A	N/A	N/A	N/A	N/A	NAD
White Mastic on Fiberglass Duct Insulation	Hallway on Ground Floor by Mechanical Room	N/A	N/A	N/A	N/A	N/A	N/A	NAD
Black Mastic on Fiberglass Pipe Insulation	Hallway on Ground Floor by Mechanical Room	N/A	N/A	N/A	N/A	N/A	N/A	NAD
Drywall	Storage/Crawl Space by Classroom 36, Storage Room in Stage, and Teacher's Lounge	N/A	N/A	N/A	N/A	N/A	N/A	NAD

Joint Compound	Storage/Crawl Space by Classroom 36, Storage Room in Stage, and Teacher's Lounge	N/A	N/A	N/A	N/A	N/A	N/A	NAD
2' x 4' Beige "Bird-Nest" Ceiling Tile	Storage/Crawl Space by Classroom 36	N/A	N/A	N/A	N/A	N/A	N/A	NAD
Black Ceiling Mastic Associated with 2' x 4' Beige "Bird-Nest" Ceiling Tile	Storage/Crawl Space by Classroom 36	N/A	N/A	N/A	N/A	N/A	N/A	NAD
4" Tan Cove Base and Associated Beige Mastic	Ramp to Storage/Crawl Space by Classroom 36	N/A	N/A	N/A	N/A	N/A	N/A	Covebase - NAD Mastic - NAD
12" x 12" Black/Brown/White Textured Floor Tile and Leveling Compound/Brown Mastic	Ramp to Storage/Crawl Space by Classroom 36	N/A	N/A	N/A	N/A	N/A	N/A	Floor Tile - NAD Mastic - NAD
Gray Floor Tile and Associated Yellow/Brown Mastic under 12" x 12" Floor Tile	Ramp to Storage/Crawl Space by Classroom 36	N/A	N/A	N/A	N/A	N/A	N/A	Floor Tile - NAD Mastic - NAD
Red/Black Floor Mastic and Leveling Compound	Exit Door 8 (under Gray Stair Tread)	N/A	N/A	N/A	N/A	N/A	N/A	Mastic - NAD Leveling - NAD
Grey Stair Tread	Exit Door 8	N/A	N/A	N/A	N/A	N/A	N/A	NAD
Green Interior Window Caulk	Stairwell above Exit Door 8, Art Classroom 33, and Main Entrance	N/A	N/A	N/A	N/A	N/A	N/A	NAD
Textured Plaster Wall	Above Entrance to the Cafeteria and Above Entrance to the Multipurpose Room	N/A	N/A	N/A	N/A	N/A	N/A	NAD
Brown Ceiling Insulation Associated with White Metal Pinhole Ceiling Tile	Kitchen	N/A	N/A	N/A	N/A	N/A	N/A	NAD
Brown Ceiling Mastic Associated with White Metal Pinhole Ceiling Tile	Kitchen	N/A	N/A	N/A	N/A	N/A	N/A	NAD
Gray Sink Undercoat	Classroom 10, 11, and 12	N/A	N/A	N/A	N/A	N/A	N/A	NAD
Gypsum Board Roof	Teacher Lounge Room	N/A	N/A	N/A	N/A	N/A	N/A	NAD

Notes: F = Friable; NF = Non-Friable; PACM = Presumed Asbestos Containing Material; O & M Plan = Operations and Maintenance Plan; NAD = No Asbestos Detected.

TABLE 3
BULK SAMPLING OF SUSPECT ASBESTOS CONTAINING MATERIALS
JAMES K. POLK ELEMENTARY SCHOOL
5000 Polk Avenue, Alexandria, VA 22304

Sample Number	Sample Location	Material/Description	Analytical Results
JP-1	Hallway on Ground Floor by Mechanical Room	2' x 4' White Pinhole Punch Ceiling Tile	NAD
JP-2	Hallway on Ground Floor by Mechanical Room	2' x 4' White Pinhole Punch Ceiling Tile	NAD
JP-3	Hallway on Ground Floor by Mechanical Room	2' x 4' White Pinhole Punch Ceiling Tile	NAD
JP-4	Hallway on Ground Floor by Mechanical Room	Brown Mastic Associated with Blackboard	NAD
JP-5	Hallway on Ground Floor by Mechanical Room	Brown Mastic Associated with Blackboard	NAD
JP-6	Hallway on Ground Floor by Mechanical Room	Brown Mastic Associated with Blackboard	NAD
JP-7	Hallway on Ground Floor by Mechanical Room	White Mastic on Fiberglass Duct Insulation	NAD
JP-8	Hallway on Ground Floor by Mechanical Room	White Mastic on Fiberglass Duct Insulation	NAD
JP-9	Hallway on Ground Floor by Mechanical Room	White Mastic on Fiberglass Duct Insulation	NAD
JP-10	Hallway on Ground Floor by Mechanical Room	Black Mastic on Fiberglass Pipe Insulation	NAD
JP-11	Hallway on Ground Floor by Mechanical Room	Black Mastic on Fiberglass Pipe Insulation	NAD
JP-12	Hallway on Ground Floor by Mechanical Room	Black Mastic on Fiberglass Pipe Insulation	NAD

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

TABLE 3
BULK SAMPLING OF SUSPECT ASBESTOS CONTAINING MATERIALS
JAMES K. POLK ELEMENTARY SCHOOL
5000 Polk Avenue, Alexandria, VA 22304

Sample Number	Sample Location	Material/Description	Analytical Results
JP-13	Storage/Crawl Space by Classroom 36	Drywall	NAD
JP-14	Storage Room in Stage	Drywall	NAD
JP-15	Teacher Lounge Room	Drywall	NAD
JP-16	Storage/Crawl Space by Classroom 36	Joint Compound	NAD
JP-17	Storage Room in Stage	Joint Compound	NAD
JP-18	Teacher Lounge Room	Joint Compound	NAD
JP-19	Storage/Crawl Space by Classroom 36	Black Wrap on Fiberglass Pipe Insulation	Asbestos: 5% Chrysotile
JP-20	Storage/Crawl Space by Classroom 36	Black Wrap on Fiberglass Pipe Insulation	N/A
JP-21	Storage/Crawl Space by Classroom 36	Black Wrap on Fiberglass Pipe Insulation	N/A
JP-22	Storage/Crawl Space by Classroom 36	2' x 4' Beige "Bird-Nest" Ceiling Tile	NAD
JP-23	Storage/Crawl Space by Classroom 36	2' x 4' Beige "Bird-Nest" Ceiling Tile	NAD
JP-24	Storage/Crawl Space by Classroom 36	2' x 4' Beige "Bird-Nest" Ceiling Tile	NAD
JP-25	Storage/Crawl Space by Classroom 36	Black Ceiling Mastic Associated with 2' x 4' Beige "Bird-Nest" Ceiling Tile	NAD
JP-26	Storage/Crawl Space by Classroom 36	Black Ceiling Mastic Associated with 2' x 4' Beige "Bird-Nest" Ceiling Tile	NAD

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

TABLE 3
BULK SAMPLING OF SUSPECT ASBESTOS CONTAINING MATERIALS
JAMES K. POLK ELEMENTARY SCHOOL
5000 Polk Avenue, Alexandria, VA 22304

Sample Number	Sample Location	Material/Description	Analytical Results
JP-27	Storage/Crawl Space by Classroom 36	Black Ceiling Mastic Associated with 2' x 4' Beige "Bird-Nest" Ceiling Tile	NAD
JP-28	Ramp to Storage/Crawl Space by Classroom 36	9" x 9" Off-White Floor Tile and Associated Black Mastic	Floor Tile – Asbestos: 3% Chrysotile Mastic – Asbestos: 8% Chrysotile
JP-29	Ramp to Storage/Crawl Space by Classroom 36	9" x 9" Off-White Floor Tile and Associated Black Mastic	Floor Tile – N/A Mastic – N/A
JP-30	Ramp to Storage/Crawl Space by Classroom 36	9" x 9" Off-White Floor Tile and Associated Black Mastic	Floor Tile – N/A Mastic – N/A
JP-31	Ramp to Storage/Crawl Space by Classroom 36	4" Tan Cove Base and Associated Beige Mastic	Cove Base – NAD Mastic – NAD
JP-32	Ramp to Storage/Crawl Space by Classroom 36	4" Tan Cove Base and Associated Beige Mastic	Cove Base – NAD Mastic – NAD
JP-33	Ramp to Storage/Crawl Space by Classroom 36	4" Tan Cove Base and Associated Beige Mastic	Cove Base – NAD Mastic – NAD
JP-34	Ramp to Storage/Crawl Space by Classroom 36	12" x 12" Black/Brown/White Textured Floor Tile and Leveling Compound/Brown Mastic	Floor Tile – NAD Mastic – Not Sampled
JP-35	Ramp to Storage/Crawl Space by Classroom 36	12" x 12" Black/Brown/White Textured Floor Tile and Leveling Compound/Brown Mastic	Floor Tile – NAD Mastic – NAD
JP-36	Ramp to Storage/Crawl Space by Classroom 36	12" x 12" Black/Brown/White Textured Floor Tile and Leveling Compound/Brown Mastic	Floor Tile – NAD Mastic – NAD
JP-37	Ramp to Storage/Crawl Space by Classroom 36	Gray Floor Tile and Associated Yellow/Brown Mastic under 12" x 12" Floor Tile	Floor Tile – NAD Mastic – NAD

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

TABLE 3
BULK SAMPLING OF SUSPECT ASBESTOS CONTAINING MATERIALS
JAMES K. POLK ELEMENTARY SCHOOL
5000 Polk Avenue, Alexandria, VA 22304

Sample Number	Sample Location	Material/Description	Analytical Results
JP-38	Ramp to Storage/Crawl Space by Classroom 36	Gray Floor Tile and Associated Yellow/Brown Mastic under 12" x 12" Floor Tile	Floor Tile – NAD Mastic – NAD
JP-39	Ramp to Storage/Crawl Space by Classroom 36	Gray Floor Tile and Associated Yellow/Brown Mastic under 12" x 12" Floor Tile	Floor Tile – NAD Mastic – NAD
JP-40	Exit Door 8 (under Gray Stair Tread)	Red/Black Floor Mastic and Leveling Compound	Mastic – NAD Leveling – NAD
JP-41	Exit Door 8 (under Gray Stair Tread)	Red/Black Floor Mastic and Leveling Compound	Mastic – NAD Leveling – NAD
JP-42	Exit Door 8 (under Gray Stair Tread)	Red/Black Floor Mastic and Leveling Compound	Mastic – NAD Leveling – NAD
JP-43	Exit Door 8	Gray Stair Tread	NAD
JP-44	Exit Door 8	Gray Stair Tread	NAD
JP-45	Exit Door 8	Gray Stair Tread	NAD
JP-46	Stairwell above Exit Door 8	Green Interior Window Caulk	NAD
JP-47	Art Classroom 33	Green Interior Window Caulk	NAD
JP-48	Main Entrance	Green Interior Window Caulk	NAD
JP-49	Art Classroom 33	Black Sink Undercoat	Asbestos: 5% Chrysotile
JP-50	Art Classroom 33	Black Sink Undercoat	N/A
JP-51	Art Classroom 33	Black Sink Undercoat	N/A
JP-52	Above Entrance to the Cafeteria	Textured Plaster Wall	NAD

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

TABLE 3
BULK SAMPLING OF SUSPECT ASBESTOS CONTAINING MATERIALS
JAMES K. POLK ELEMENTARY SCHOOL
5000 Polk Avenue, Alexandria, VA 22304

Sample Number	Sample Location	Material/Description	Analytical Results
JP-53	Above Entrance to the Cafeteria	Textured Plaster Wall	NAD
JP-54	Above Entrance to the Multipurpose Room	Textured Plaster Wall	NAD
JP-55	Storage Room in Stage	Black Mastic on Fiberglass 6" Pipe Insulation	Asbestos: 10% Chrysotile
JP-56	Storage Room in Stage	Black Mastic on Fiberglass 6" Pipe Insulation	N/A
JP-57	Storage Room in Stage	Black Mastic on Fiberglass 2" Pipe Insulation	N/A
JP-58	Food Storage Room in Kitchen	9" x 9" Gray/White Floor Tile and Associated Black Mastic	Floor Tile – Asbestos: 3% Chrysotile Mastic – Asbestos: 5% Chrysotile
JP-59	Food Storage Room in Kitchen	9" x 9" Gray/White Floor Tile and Associated Black Mastic	Floor Tile – N/A Mastic – N/A
JP-60	Food Storage Room in Kitchen	9" x 9" Gray/White Floor Tile and Associated Black Mastic	Floor Tile – N/A Mastic – N/A
JP-61	Kitchen	Brown Ceiling Insulation Associated with White Metal Pinhole Ceiling Tile	NAD
JP-62	Kitchen	Brown Ceiling Insulation Associated with White Metal Pinhole Ceiling Tile	NAD

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

TABLE 3
BULK SAMPLING OF SUSPECT ASBESTOS CONTAINING MATERIALS
JAMES K. POLK ELEMENTARY SCHOOL
5000 Polk Avenue, Alexandria, VA 22304

Sample Number	Sample Location	Material/Description	Analytical Results
JP-63	Kitchen	Brown Ceiling Insulation Associated with White Metal Pinhole Ceiling Tile	NAD
JP-64	Kitchen	Brown Ceiling Mastic Associated with White Metal Pinhole Ceiling Tile	NAD
JP-65	Kitchen	Brown Ceiling Mastic Associated with White Metal Pinhole Ceiling Tile	NAD
JP-66	Kitchen	Brown Ceiling Mastic Associated with White Metal Pinhole Ceiling Tile	NAD
JP-67	Classroom 11	Gray Sink Undercoat	NAD
JP-68	Classroom 12	Gray Sink Undercoat	NAD
JP-69	Classroom 10	Gray Sink Undercoat	NAD
JP-70	Closet in Classroom 10 (under Carpet)	Tan Floor Tile and Associated Black Mastic	Floor Tile – Asbestos: 3% Chrysotile Mastic – Asbestos: 8% Chrysotile
JP-71	Closet in Classroom 10 (under Carpet)	Tan Floor Tile and Associated Black Mastic	Floor Tile – N/A Mastic – N/A
JP-72	Closet in Classroom 12 (under Carpet)	Tan Floor Tile and Associated Black Mastic	Floor Tile – N/A Mastic – N/A
JP-73	Teacher Lounge Room	Gypsum Board Roof	NAD
JP-74	Teacher Lounge Room	Gypsum Board Roof	NAD
JP-75	Teacher Lounge Room	Gypsum Board Roof	NAD

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

PURCHASE ORDER REQUEST

ECS is pleased to provide the professional services outlined in the proposed scope of services below. This contract confirms your authorization for the services requested, and your agreement to the Terms and Conditions of ECS's Term Contract (RFP 720)

PROJECT INFORMATION

Project Name:	James K. Polk Elementary School	Date:	May 26, 2021
Street Address:	5000 Polk Avenue	ECS Proposal No.:	47:18958-EPR
City, State, Zip:	Alexandria, Virginia 22304		
Client:	Alexandria City Public Schools	Attn:	John Finnigan

PROPOSED SCOPE OF SERVICES

ECS was requested to provide a cost estimate for performing air monitoring services during the proposed abatement of asbestos-containing flooring materials within James K. Polk Elementary School. Reportedly, abatement of selected asbestos-containing flooring materials will be split into three (3) phases. Each phase is described below.

- Phase 1 – 10 Days - Rooms 26, 27, 28, 29, 30, 31, 32, 33, 34, and 35
- Phase 2 – 12 Days - Rooms 17, 18, 19, 20, 21, 22, 23, 24, 25, 38, and the Stage
- Phase 3 – 5 Days - Studio, Library Offices, and Corridors

Based on our understanding of the project, ECS proposes the following scope of services:

- Review the abatement contractor's Virginia Asbestos Supervisor and Virginia Asbestos Worker licenses

- Provide a Commonwealth of Virginia licensed Asbestos Project Monitor that has successfully completed the NIOSH 582 equivalent training program for on-site air sample collection and analysis

- Conduct Phase Contrast Microscopy (PCM) air sampling outside the work area(s) to monitor ambient levels of airborne asbestos fibers during abatement activities

- Upon completion of the abatement within each work area, conduct a final visual assessment to ascertain that specified materials have been removed

- Conduct final clearance air sampling, as needed, in general accordance with Commonwealth of Virginia and applicable federal regulations, and provide analytical results with 24 hours. Final clearance air samples will be analyzed by TEM analysis, as needed and applicable

- Submit progress reports to include field technician notes and air sample data

- Upon completion of the project, a summary project monitoring report will be prepared. This report will include an executive summary, daily field reports, and sample results

- Perform observations of the work areas and asbestos abatement engineering controls prior to abatement and during abatement for regulatory compliance related to asbestos removal, and complete daily field notes regarding observations made and events occurring during each shift

PROFESSIONAL FEE

ECS will provide the proposed scope of services for the estimated fee noted below. ECS performs testing services on a unit rate basis. The total time spent on-site during the abatement project will be determined by the abatement contractor's schedule and efficiency. Based on the information provided, the proposed abatement will be split into three phases. Phase One has an estimated duration of 10 weekday shifts. Phase Two has an estimated duration of 12 weekday shifts. Phase Three has an estimated duration of 5 weekday shifts. An additional shift may be necessary to run final clearance air sampling. ECS has added a 20% overtime allotment for final clearances or shifts longer than eight (8) hours. Should additional services be necessary and/or requested, the scope and fee of such services will be provided to you for your review and approval prior to being performed.

Task/Item	Unit Rate	Units	Total
Phase 1 - Estimated 10 Days			
Industrial Hygiene Technician (Weekday/8-Hr Shifts)	$65.00/Hour	81	$5,265.00
Industrial Hygiene Technician (Overtime Rate)(Estimate)	$97.50/Hour	17	$1,613.00
PCM Air Sample Analysis (On-Site; Estimated 10 samples per day)	$9.00/Sample	100	$900.00
Vehicle Mileage	$0.58/Mile	301	$175.00
Senior (Engineer/Scientist/Geologist)	$145.00/Hour	6	$870.00
Project Manager	$110.00/Hour	12	$1,320.00
Principal	$180.00/Hour	2	$360.00
Asbestos TEM Air Analysis (Rush TAT)	$80.00/Sample	10	$800.00
Estimated Total for Phase 1:			**$11,347.00**
Phase 2 - Estimated 12 Days			
Industrial Hygiene Technician (Weekday/8-Hr Shifts)	$65.00/Hour	96	$6,240.00
Industrial Hygiene Technician (Overtime Rate)(Estimate)	$97.50/Hour	20	$1,950.00
PCM Air Sample Analysis (On-Site; Estimated 10 samples per day)	$9.00/Sample	120	$1,080.00
Vehicle Mileage	$0.58/Mile	355	$206.00
Senior (Engineer/Scientist/Geologist)	$145.00/Hour	7	$1,015.00
Project Manager	$110.00/Hour	14	$1,540.00
Principal	$180.00/Hour	3	$540.00
Asbestos TEM Air Analysis (Rush TAT)	$80.00/Sample	10	$800.00
Estimated Total for Phase 2:			**$13,371.00**
Phase 3 - Estimated 5 Days			
Industrial Hygiene Technician (Weekday/8-Hr Shifts)	$65.00/Hour	38	$2,470.00
Industrial Hygiene Technician (Overtime Rate)(Estimate)	$97.50/Hour	8	$780.00
PCM Air Sample Analysis (On-Site; Estimated 10 samples per day)	$9.00/Sample	47	$423.00
Vehicle Mileage	$0.58/Mile	144	$84.00
Senior (Engineer/Scientist/Geologist)	$145.00/Hour	3	$435.00
Project Manager	$110.00/Hour	6	$660.00
Principal	$180.00/Hour	1	$180.00
Estimated Total for Phase 3:			**$5,032.00**
Estimated Total for Phase 1, 2, and 3			**$29,750.00**

For ECS Mid-Atlantic, LLC:

Signature: 

Signature: 

Project Manager: Catey Bourne
Assistant Staff Project Manager
cbourne@ecslimited.com

Principal: Michael Hamill, CIH
Senior Project Manager
MHamill@ecslimited.com

ASBESTOS ABATEMENT MONITORING SUMMARY REPORT

JAMES K. POLK ELEMENTARY SCHOOL

5000 POLK AVENUE
ALEXANDRIA, VIRGINIA 22304

ECS PROJECT NO. 47:11652-G

FOR: ALEXANDRIA CITY PUBLIC SCHOOLS

SEPTEMBER 16, 2021

September 16, 2021

Mr. John Finnigan
Alexandria City Public Schools
1340 Braddock Place
Suite 620
Alexandria, Virginia 22314

ECS Project No. 47:11652-G

Reference: Asbestos Abatement Monitoring Summary Report, James K. Polk Elementary School, 5000 Polk Avenue, Alexandria, Virginia

Dear Mr. Finnigan:

ECS Mid-Atlantic, LLC (ECS) is pleased to provide Alexandria City Public Schools with this summary report of the asbestos abatement work performed during the above-referenced project. ECS performed visual assessments, evaluations, and air monitoring and sampling during the removal of asbestos-containing materials (ACMs). This report includes a project description, a summary of the asbestos abatement activities observed by ECS, and a summary of the work conducted by ECS including laboratory results.

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

Sincerely,

ECS Mid-Atlantic, LLC

Catey Bourne
Assistant Staff Project Manager
cbourne@ecslimited.com
703-471-8400

Michael Hamill, CIH
Senior Project Manager
MHamill@ecslimited.com
703-471-8400

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Appendix I: Daily Field Reports with PCM Air Sample Results

Appendix II: Drawings

Appendix III: Certifications/Licenses

1.0 PROJECT DESCRIPTION

The asbestos abatement work was performed by Waco, Inc., in general from July 26 through August 6, 2021 and included the removal of the following asbestos-containing materials (ACMs):

- Floor tiles and associated mastic from rooms 23-33 and hallway from the main level
- Floor tiles and associated mastic from rooms 34-39, room 41, and hallway from the lower level
- Floor tiles and associated mastic from northern staircase

No other materials or areas of the school building were included in this asbestos abatement. Please note that the above-referenced asbestos-containing materials (ACMs), other identified ACMs, and/or assumed ACMs are most likely present in other areas of the school building.

2.0 ECS SCOPE OF WORK

ECS was tasked with performing visual assessments and evaluations, monitoring and air sampling during and after the removal of the above-identified asbestos-containing materials (ACMs) within the above-referenced subject building.

3.0 ASBESTOS ABATEMENT ACTIVITIES

3.1 Asbestos Removal

Asbestos abatement was performed by Waco, Inc. within regulated work areas. The regulated work areas within the subject building consisted of enclosures placed under negative pressure constructed of 6-mil polyethylene sheeting.

3.2 Daily Air Sampling

During the asbestos abatement project, ECS collected and analyzed air samples using Phase Contrast Microscopy (PCM) in general accordance with applicable federal and Virginia regulations. Samples were collected during the project outside the work areas to monitor airborne fiber concentrations. In general, the air sampling found the engineering controls (i.e., polyethylene sheeting, negative air pressure, High Efficiency Particulate Air (HEPA) filtration adequate to keep fiber concentrations on air samples collected outside the regulated work areas below the Virginia PCM re-occupancy limit of <0.01 fibers per cubic centimeter (f/cc). Air sample results are included within the technicians' daily field notes.

3.3 ECS Observations

ECS reviewed the asbestos credentials of the abatement workers. The credential documentation reviewed was noted to be current at the time presented to ECS.

ECS observed abatement workers utilizing personal protective equipment deemed necessary for asbestos abatement work by applicable OSHA and Virginia regulations (respirators, disposable protective clothing, eye protection, hard hats, gloves, etc.).

4.0 FINAL CLEARANCE AIR SAMPLING

After Waco, Inc. had removed the specified asbestos-containing materials (ACMs) and related waste from the work areas, ECS performed final clearance visual assessments to survey each work area and evaluate if the ACMs had been removed and if dust and/or debris remained in the work areas. Following the completion of the final clearance visual assessments, ECS reported the results to Waco, Inc.

Final clearance air samples were collected from work areas in accordance with aggressive sampling protocol described in Unit III.B.7.d of 40 CFR 763 Subpart E Appendix A and analyzed via Transmission Electron Microscopy (TEM) in accordance with federal and Virginia regulations. The results of the TEM final clearance air samples collected from each work area were found to be below the Virginia re-occupancy limit of 70 structures per square millimeter (70 s/mm^2).

5.0 CLOSING

Copies of ECS's daily monitoring field reports are enclosed along with copies of laboratory reports. If we can be of further assistance to you, please do not hesitate to contact us at (703) 471-8400.

The results of the above referenced abatement activities should be added to this school building's AHERA management plan and this summary letter should be included in the building's management plan for reference.

6.0 LIMITATIONS

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

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

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

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

Appendix I: Daily Field Reports with PCM Air Sample Results

ECS Mid-Atlantic, LLC
14026 Thunderbolt Place, Suite 100
Chantilly, VA 20151-3232
7034718400
7038345527

LETTER OF TRANSMITTAL

July 30, 2021

Alexandria City Public Schools
1340 Braddock Place Suite 620
Alexandria, VA 22314

ATTN: John Finnigan

RE: **ACPS James Polk ES Summer Abatement**
ECS Job # **47:11652-G**

Permits:
Location: **5000 Polk Avenue**
Alexandria, VA 22304

X Field Reports **X** For your use **X** As requested

CC: Alexandria City Public Schools - John Contreras
Alexandria City Public Schools - Norman Wiebusch
Waco, Inc - Chris Lanham

ENCL: Field Report # 1 7/26/2021

Stephen Geraci, P.E., CHMM
Vice President, Principal Engineer

John A. O'Neil
Environmental Staff Project Manager

Disclaimer

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2. *The information in this report relates only to the activities performed on the report date.*
3. *Where appropriate, this report includes statements as to compliance with applicable project drawings, and specifications for the activities, performed on this report date.*
4. *Incomplete or non-conforming work will be reported for future resolution.*
5. *The results of samples and/or specimens obtained or prepared for subsequent laboratory testing will be presented in separate reports/documents.*

ECS Mid-Atlantic, LLC
14026 Thunderbolt Place, Suite 100
Chantilly, VA 20151-3232
(703) 471-8400 [Phone]
(703) 834-5527 [Fax]

FIELD REPORT

Project	**ACPS James Polk ES Summer Abatement**
Location	**Alexandria, VA**
Client	**Alexandria City Public Schools**
Contractor	**None Listed**

Project No.	**47:11652-G**
Report No.	**1**
Day & Date	**Monday 7/26/2021**
Weather	**91 °/ Sunny**
On-Site Time	**2.50**
Lab Time	**0.00**
Travel Time*	**0.00**
Total	**2.50**
Re Obs Time	**0.00**

Remarks

Trip Charges*	Tolls/Parking*	Mileage*	Times of	Arrival	Departure
Chargeable Items				**6:00A**	**7:30A**
				3:30P	**4:30P**

* Travel time and mileage will be billed in accordance with the contract.

Summary of Services Performed (field test data, locations, elevations & depths are estimates) & Individuals Contacted.

The undersigned arrived on-site, as requested, to perform air monitoring and observe asbestos abatement. The materials to be removed today are floor tile with associated black floor mastic in the lower level hallway, stairwell, and classrooms 34 - 39, and 41. Photographs and sketch for today's regulated work area are attached to this report.

LOWER LEVEL HALLWAY, STAIRWELL, AND CLASSROOMS 34 - 39, and 41, WORK AREA MONITORING

The abatement contractor requested a pre-abatement survey of the regulated work area. The Pre-Abatement Checklist was completed and is attached to this report.

Between 7:15 and 7:20 am, PCM air samples were started outside the work area at decontamination unit entry and critical barrier in the stairwell. The sampling pumps were calibrated using a rotameter to 2.0 liters per minute. Abatement workers were removing floor tile with associated black floor mastic using scraper machine and hand scrapers.

Between 3:30 and 3:32 pm, the sampling pumps were checked using a rotameter. The flow rate was 10.0 liters per minute. The PCM air samples were stopped and gathered from outside the work area.

GENERAL

The regulated work area was surveyed to evaluate general compliance with applicable regulations. The Daily Work Area Survey Checklist was completed and is attached to this report.

ECS observed the abatement contractor placing the specified asbestos-containing materials in 6-mil polyethylene bags in barrels which were double-bagged and sealed in general accordance with applicable

regulations. Waste bags/barrels were labeled and placed in a waste hauling container.

The undersigned prepared and analyzed the PCM air samples cassettes for total fiber concentration in general accordance with NIOSH Method 7400. Results were recorded on the PCM Chain of Custody which is attached.

The US EPA and Commonwealth of Virginia PCM re-occupancy criteria is less than or equal to 0.01 fibers per cubic centimeter of air (f/cc). OWA samples were reported below the level.

The sample results reflect the conditions where the air samples were collected at the time and dates of collection.

ECS Mid-Atlantic, LLC

PCM Air Sample Field Data Sheet

WORK AREA SAMPLES

Project Number: 47:11652-G
Project Address: 5000 Polk Avenue
Alexandria, VA-22304

Date: 7/26/2021
Page: 1 of 1

Sample #	Location/Description	Start	Stop	Start Flow (lpm)	Stop Flow (lpm)	Average Flow (lpm)	Total Time (lpm)	Volume (l)	Fibers (#)	Field (#)	Result (f/cc)
07262101GN	OWA,1st Floor Work Area at Decontamination Unit Entry	7:15 AM	3:30 PM	2.0	2.0	2.0	495	990.0	3.0	100	0.001
07262102GN	OWA,1st Floor Work Area at Critical Barrier by the Stairwell	7:20 AM	3:32 PM	2.0	2.0	2.0	492	984.0	1.0	100	0.000
072621FB01GN	Field Blank	N/A	N/A	N/A	N/A	N/A	N/A	N/A	0.0	100	NFD
072621FB02GN	Field Blank	N/A	N/A	N/A	N/A	N/A	N/A	N/A	0.0	100	NFD

Notes: NFD = None Fibers Detected OWA = Outside Work Area IWA = Inside Work Area

Notes: The US EPA and Commonwealth of Virginia PCM re-occupancy criteria is less than or equal to 0.01 fibers per cubic centimeter of air (f/cc). OWA samples were reported below the level.

ECS Technician: JP Nuique **Date:** 7/26/2021

ECS Mid-Atlantic, LLC

Pre-Abatement Work Area Checklist

Project Number: 47:11652-G **Date:** 7/27/2021

Project Address: 5000 Polk Avenue
Alexandria, VA-22304

Work Area Location/Description: Lower Level Hallway, Stairwell, and Classrooms 34 – 39, and 41 - Floor Tile and Mastic

	Work Area Location/Description	Lower Level Hallway, Stairwell, and
Administrative	Training Certificates/Licenses	Satisfactory
	Permits	Satisfactory
	EPA/State/Local Notification	Satisfactory
Work Area	Public Access Restricted	Satisfactory
	Warning Signs/Tape Posted	Satisfactory
Negative Air Filtration	Number of Units	8
	Pre-Filters In-Use/Available	Satisfactory
	Exhausted from Work Area	Satisfactory
	Pressure Differential Monometer Operating	Satisfactory
Equipment	HEPA Vacuum Available	Satisfactory
	Amended Water Sprayers	Satisfactory
Decontamination Enclosure	Clean Room	Satisfactory
	Shower Water Available	Satisfactory
	Waste Water Filtration In-Use	Satisfactory
	Disposable Towels	Satisfactory
	Soap	Satisfactory
	Equipment Room	Satisfactory
Personal Protective Equipment	Type of Respirator	Half Face
	Type of Filters Used	P100
	Disposable Protective Clothing	Satisfactory
	Work Area Acceptable	Yes

Notes:

ECS Technician: Catey Bourne **Date:** 7/27/2021

ECS Mid-Atlantic, LLC

Daily Work Area Checklist

Project Number: 47:11652-G **Date:** 7/27/2021

Project Address: 5000 Polk Avenue
Alexandria, VA-22304

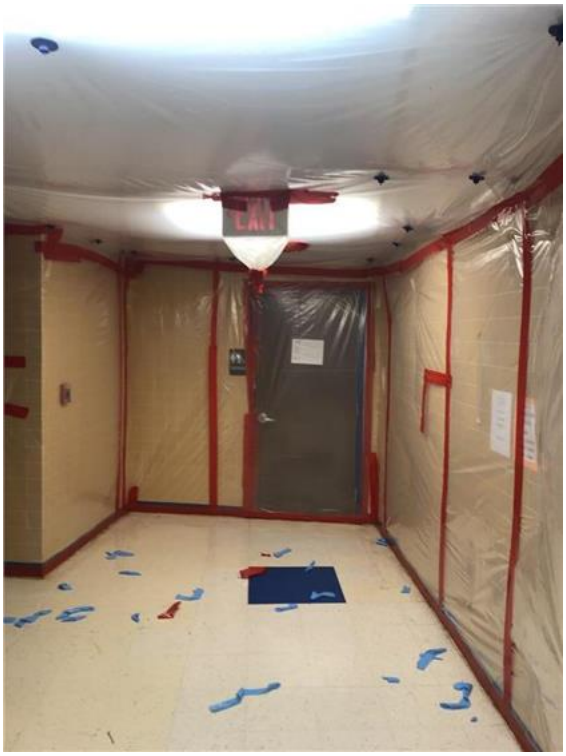
Work Area Location/Description: Lower Level Hallway, Stairwell, and Classrooms 34 – 39, and 41 - Floor Tile and Mastic

	Work Area Location/Description	Lower Level Hallway, Stairwell, and
Decontamination Enclosure	Floors and Walls Clean	Satisfactory
	No Debris Present	Satisfactory
	Signage Intact	Satisfactory
	Shower Functioning	Satisfactory
	Used Suits/Towels in Waste Bag	Satisfactory
Interior of Work Area	All Critical Barriers Intact	Satisfactory
	Wet Methods In-Use	Satisfactory
	Prompt Clean-Up	Satisfactory
	Adequate Lighting	Satisfactory
	Respiratory Protection	Satisfactory
	Disposable Clothing Worn Properly	Satisfactory
	No Respirators Stored in Work Area	Satisfactory
	Negative Air Filtration In-Use	Satisfactory
	Pre-Filters Clean	Satisfactory
	Exhaust Properly Vented	Satisfactory
	No Eating/Drinking/Smoking in Work Area	Satisfactory
End of Shift Checklist	Negative Air Filtration Machines Operating	Satisfactory
	Debris Bagged/Sealed	Satisfactory
	Work Area Secured from Public Access	Satisfactory
Air Samples Collected	Number of PCM Air Samples	2
	Number of PCM Blank Samples	2
	Work Area Acceptable	Yes

Notes:

ECS Technician: Catey Bourne **Date:** 7/27/2021

Attachments



View of the 1st floor work area during the pre-abatement walk-through (1)

Figure 1



View of the 1st floor work area during the pre-abatement walk-through (2)

Figure 2

Attachments



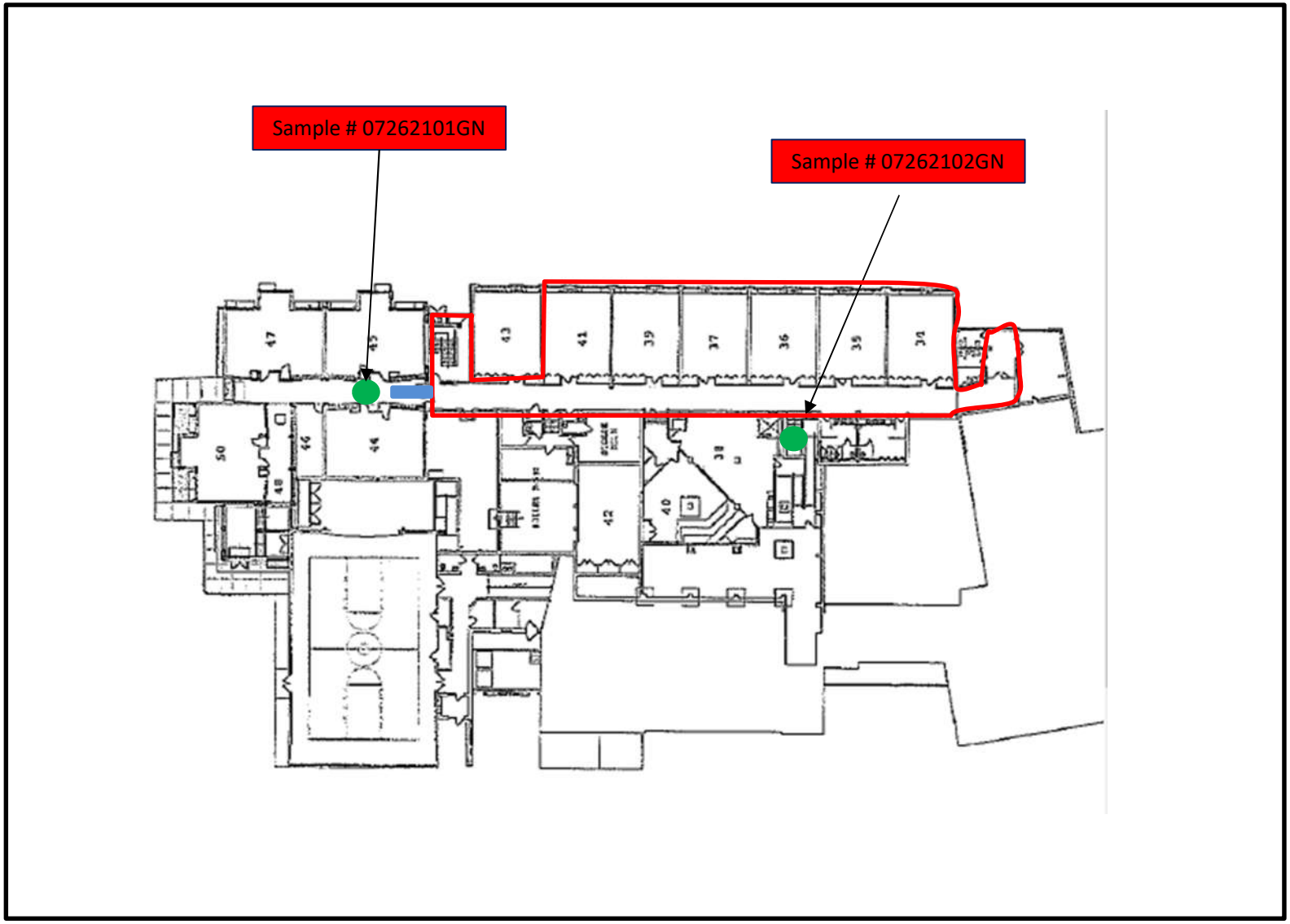
View of the 1st floor work area during the pre-abatement walk-through (3)

Figure 3



View of the micromanometer for the first floor work area during the pre-abatement walk-through

Figure 4



Legend

= Regulated Work Area

= Decontamination Unit

= Sample Location

James Polk ES
5000 Polk Ave,
Alexandria, VA 22304

Work Area Sketch
1st Floor

SCALE NTS

Project No. 47:11652-G

Date 07/26/21

ECS Mid-Atlantic, LLC
14026 Thunderbolt Place, Suite 100
Chantilly, VA 20151-3232
7034718400
7038345527

LETTER OF TRANSMITTAL

July 30, 2021

Alexandria City Public Schools
1340 Braddock Place Suite 620
Alexandria, VA 22314

ATTN: John Finnigan

RE: **ACPS James Polk ES Summer Abatement**
ECS Job # **47:11652-G**

Permits:
Location: **5000 Polk Avenue**
Alexandria, VA 22304

X Field Reports **X** For your use **X** As requested

CC: Alexandria City Public Schools - John Contreras
Alexandria City Public Schools - Norman Wiebusch
Waco, Inc - Chris Lanham

ENCL: Field Report # 2 7/27/2021

Stephen Geraci, P.E., CHMM
Vice President, Principal Engineer

John A. O'Neil
Environmental Staff Project Manager

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ECS Mid-Atlantic, LLC
14026 Thunderbolt Place, Suite 100
Chantilly, VA 20151-3232
(703) 471-8400 [Phone]
(703) 834-5527 [Fax]

FIELD REPORT

Project	**ACPS James Polk ES Summer Abatement**
Location	**Alexandria, VA**
Client	**Alexandria City Public Schools**
Contractor	**None Listed**

Project No.	**47:11652-G**
Report No.	**2**
Day & Date	**Tuesday 7/27/2021**
Weather	**85 °/ Sunny**
On-Site Time	**10.50**
Lab Time	**0.00**
Travel Time*	**0.00**
Total	**10.50**
Re Obs Time	**0.00**

Remarks

Trip Charges*	Tolls/Parking*	Mileage*	Time of	Arrival	Departure
Chargeable Items				**6:00A**	**4:30P**

* Travel time and mileage will be billed in accordance with the contract.

Summary of Services Performed (field test data, locations, elevations & depths are estimates) & Individuals Contacted.

The undersigned arrived on-site, as requested, to perform air monitoring and observe asbestos abatement. The materials to be removed today are floor tile with associated black floor mastic in the lower level hallway, stairwell, and classrooms 34 - 39, and 41. Photographs and sketch for today's regulated work area are attached to this report.

LOWER LEVEL HALLWAY, STAIRWELL, AND CLASSROOMS 34 - 39, and 41, WORK AREA MONITORING

Between 6:42 and 6:44 am, PCM air samples were started outside the work area at the decontamination unit entry and critical barrier in the stairwell. The sampling pumps were calibrated using a rotameter to 2.0 liters per minute. Abatement workers were removing floor tile with associated black floor mastic using a scraper machine and hand scrapers.

Between 3:30 and 3:32 pm, the sampling pumps were checked using a rotameter. The flow rate was 2.0 liters per minute. The PCM air samples were stopped and gathered from outside the work area.

GENERAL

The regulated work area was surveyed to evaluate general compliance with applicable regulations. The Daily Work Area Survey Checklist was completed and is attached to this report.

ECS observed the abatement contractor placing the specified asbestos-containing materials in 6-mil polyethylene bags in barrels which were double-bagged and sealed in general accordance with applicable regulations. Waste bags/barrels were labeled and placed in a waste hauling container.

The undersigned prepared and analyzed the PCM air samples cassettes for total fiber concentration in general accordance with NIOSH Method 7400. Results were recorded on the PCM Chain of Custody

By Michael Kurtis Blackburn 1340

which is attached.

The US EPA and Commonwealth of Virginia PCM re-occupancy criteria is less than or equal to 0.01 fibers per cubic centimeter of air (f/cc). OWA samples were reported below the level.

The sample results reflect the conditions where the air samples were collected at the time and dates of collection.

ECS Mid-Atlantic, LLC

PCM Air Sample Field Data Sheet

WORK AREA SAMPLES

Project Number: 47:11652-G
Project Address: 5000 Polk Avenue
Alexandria, VA-22304

Date: 7/27/2021
Page: 1 of 1

Sample #	Location/Description	Start	Stop	Start Flow (lpm)	Stop Flow (lpm)	Average Flow (lpm)	Total Time (lpm)	Volume (l)	Fibers (#)	Field (#)	Result (f/cc)
07272101MB	OWA,1st Floor Work Area at Decontamination Unit Entry	6:42 AM	3:30 PM	2.0	2.0	2.0	528	1056.0	2.5	100	0.001
07272102MB	OWA,1st Floor Work Area at Critical Barrier by the Stairwell	6:44 AM	3:32 PM	2.0	2.0	2.0	528	1056.0	2.0	100	0.001
072721FB01GN	Field Blank	N/A	N/A	N/A	N/A	N/A	N/A	N/A	0.0	100	NFD
072721FB02MB	Field Blank	N/A	N/A	N/A	N/A	N/A	N/A	N/A	0.0	100	NFD

Notes: NFD = None Fibers Detected OWA = Outside Work Area IWA = Inside Work Area

Notes: The US EPA and Commonwealth of Virginia PCM re-occupancy criteria is less than or equal to 0.01 fibers per cubic centimeter of air (f/cc). OWA samples were reported below the level.

ECS Technician: Michael Kurtis Blackburn **Date:** 7/27/2021

ECS Mid-Atlantic, LLC

Daily Work Area Checklist

Project Number: 47:11652-G **Date:** 7/27/2021

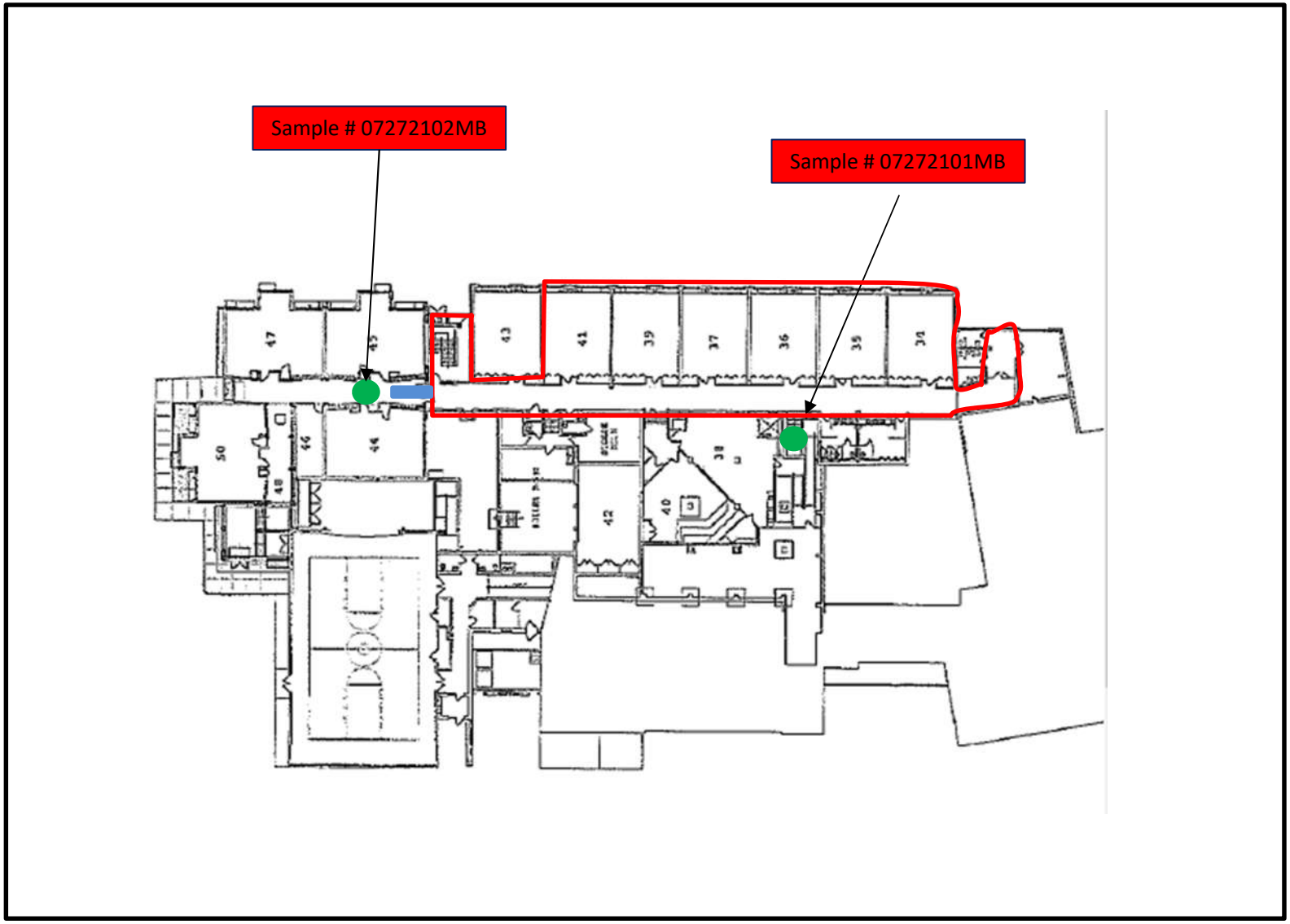
Project Address: 5000 Polk Avenue
Alexandria, VA-22304

Work Area Location/Description: Lower Level Hallway, Stairwell, and Classrooms 34 – 39, and 41 - Floor Tile and Mastic

	Work Area Location/Description	Lower Level Hallway, Stairwell, and
Decontamination Enclosure	Floors and Walls Clean	Satisfactory
	No Debris Present	Satisfactory
	Signage Intact	Satisfactory
	Shower Functioning	Satisfactory
	Used Suits/Towels in Waste Bag	Satisfactory
Interior of Work Area	All Critical Barriers Intact	Satisfactory
	Wet Methods In-Use	Satisfactory
	Prompt Clean-Up	Satisfactory
	Adequate Lighting	Satisfactory
	Respiratory Protection	Satisfactory
	Disposable Clothing Worn Properly	Satisfactory
	No Respirators Stored in Work Area	Satisfactory
	Negative Air Filtration In-Use	Satisfactory
	Pre-Filters Clean	Satisfactory
	Exhaust Properly Vented	Satisfactory
	No Eating/Drinking/Smoking in Work Area	Satisfactory
End of Shift Checklist	Negative Air Filtration Machines Operating	Satisfactory
	Debris Bagged/Sealed	Satisfactory
	Work Area Secured from Public Access	Satisfactory
Air Samples Collected	Number of PCM Air Samples	2
	Number of PCM Blank Samples	2
	Work Area Acceptable	Yes

Notes:

ECS Technician: Catey Bourne **Date:** 7/27/2021



Legend

= Regulated Work Area

= Decontamination Unit

= Sample Location

James Polk ES
5000 Polk Ave,
Alexandria, VA 22304

Work Area Sketch
Lower Level

SCALE NTS

Project No. 47:11652-G

Date 07/27/21

Attachments



View of abatement activities in the lower level work area

Figure 1



View of abatement activities in the lower level work area (2)

Figure 2

Attachments



View of abatement activities in the lower level work area (3)

Figure 3



View of abatement activities in the lower level work area (4)

Figure 4

Attachments



View of secondary decontamination unit for disposal of ACM

Figure 5

ECS Mid-Atlantic, LLC
14026 Thunderbolt Place, Suite 100
Chantilly, VA 20151-3232
7034718400
7038345527

LETTER OF TRANSMITTAL

August 2, 2021

Alexandria City Public Schools
1340 Braddock Place Suite 620
Alexandria, VA 22314

ATTN: John Finnigan

RE: **ACPS James Polk ES Summer Abatement**
ECS Job # **47:11652-G**

Permits:
Location: **5000 Polk Avenue**
Alexandria, VA 22304

X Field Reports **X** For your use **X** As requested

CC: Alexandria City Public Schools - John Contreras
Alexandria City Public Schools - Norman Wiebusch
Waco, Inc - Chris Lanham

ENCL: Field Report # 3 7/28/2021

Michael P. Hamill, CIH
Environmental Senior Project Manager

John A. O'Neil
Environmental Staff Project Manager

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ECS Mid-Atlantic, LLC
14026 Thunderbolt Place, Suite 100
Chantilly, VA 20151-3232
(703) 471-8400 [Phone]
(703) 834-5527 [Fax]

FIELD REPORT

Project	**ACPS James Polk ES Summer Abatement**
Location	**Alexandria, VA**
Client	**Alexandria City Public Schools**
Contractor	**None Listed**

Project No.	**47:11652-G**
Report No.	**3**
Day & Date	**Wednesday 7/28/2021**
Weather	**80 °/ Sunny**
On-Site Time	**10.75**
Lab Time	**0.00**
Travel Time*	**0.00**
Total	**10.75**
Re Obs Time	**0.00**

Remarks

Trip Charges*	Tolls/Parking*	Mileage*	Time of	Arrival	Departure
Chargeable Items				**6:00A**	**4:45P**

* Travel time and mileage will be billed in accordance with the contract.

Summary of Services Performed (field test data, locations, elevations & depths are estimates) & Individuals Contacted.

The undersigned arrived on-site, as requested, to perform air monitoring and observe asbestos abatement. The materials to be removed today are floor tile with associated black floor mastic in the lower level hallway, stairwell, and classrooms 34 – 39, and 41 and the upper level hallway and classrooms 23 - 29. Photographs and a sketch for today's regulated work area are attached to this report.

LOWER LEVEL HALLWAY, STAIRWELL, AND CLASSROOMS 34 – 39, and 41, WORK AREA MONITORING

Between 6:30 and 6:35 am, PCM air samples were started outside the work area at the decontamination unit entry and the critical barrier in the stairwell on the first floor. The sampling pumps were calibrated using a rotameter to 2.0 liters per minute.

Abatement workers were observed removing floor tile with associated black floor mastic using scraper machines and hand scrapers.

Between 3:45 and 3:50 pm, the sampling pumps were checked using a rotameter. The flow rate was 2.0 liters per minute. The PCM air samples were stopped and gathered from outside the work area.

UPPER LEVEL HALLWAY AND CLASSROOMS 23 – 29 WORK AREA MONITORING

The abatement contractor requested a pre-abatement survey of the regulated work area. The Pre-Abatement Checklist was completed and is attached to this report.

At 12:25 pm, a PCM air sample was started outside the work area at the decontamination unit entry. The sampling pump was calibrated using a rotameter to 2.0 liters per minute.

Abatement workers were observed removing floor tile with associated black floor mastic using scraper

machine and hand scrapers.

At 4:00 pm, the sampling pump was checked using a rotameter. The flow rate was 2.0 liters per minute. The PCM air sample was stopped and gathered from outside the work area.

GENERAL

The regulated work area was surveyed to evaluate general compliance with applicable regulations. The Daily Work Area Survey Checklist was completed and is attached to this report.

ECS observed the abatement contractor placing the specified asbestos-containing materials in 6-mil polyethylene bags in barrels which were double-bagged and sealed in general accordance with applicable regulations. Waste bags/barrels were labeled and placed in a waste hauling container.

The undersigned prepared and analyzed the PCM air samples cassettes for total fiber concentration in general accordance with NIOSH Method 7400. Results were recorded on the PCM Chain of Custody which is attached.

The US EPA and Commonwealth of Virginia PCM re-occupancy criteria is less than or equal to 0.01 fibers per cubic centimeter of air (f/cc). OWA samples were reported below the level.

The sample results reflect the conditions where the air samples were collected at the time and dates of collection.

ECS Mid-Atlantic, LLC

PCM Air Sample Field Data Sheet

WORK AREA SAMPLES

Project Number: 47:11652-G
Project Address: 5000 Polk Avenue
Alexandria, VA-22304

Date: 7/28/2021
Page: 1 of 1

Sample #	Location/Description	Start	Stop	Start Flow (lpm)	Stop Flow (lpm)	Average Flow (lpm)	Total Time (lpm)	Volume (l)	Fibers (#)	Field (#)	Result (f/cc)
07282101MB	OWA at decontamination unit entry	6:35 AM	3:45 PM	2.0	2.0	2.0	550	1100.0	8.0	100	0.004
07282102MB	OWA of critical barrier at stairwell	6:30 AM	3:50 PM	2.0	2.5	2.3	560	1260.0	1.0	100	0.000
07282103MB	OWA Second floor decontamination unit	12:25 PM	4:00 PM	2.0	4.0	3.0	215	645.0	2.0	100	0.002
07282104MB	Field Blank	N/A	N/A	N/A	N/A	N/A	N/A	N/A	0.0	100	NFD
07282105MB	Field Blank	N/A	N/A	N/A	N/A	N/A	N/A	N/A	0.0	100	NFD

Notes: NFD = None Fibers Detected OWA = Outside Work Area IWA = Inside Work Area

Notes: The US EPA and Commonwealth of Virginia PCM re-occupancy criteria is less than or equal to 0.01 fibers per cubic centimeter of air (f/cc). OWA samples were reported below the level.

ECS Technician: Michael Kurtis Blackburn **Date:** 7/28/2021

Attachments



View of abatement activities in the lower level work area

Figure 1



View of abatement activities in the upper level work area

Figure 2

Attachments



View of upper level work work area during the pre-abatement walk-through

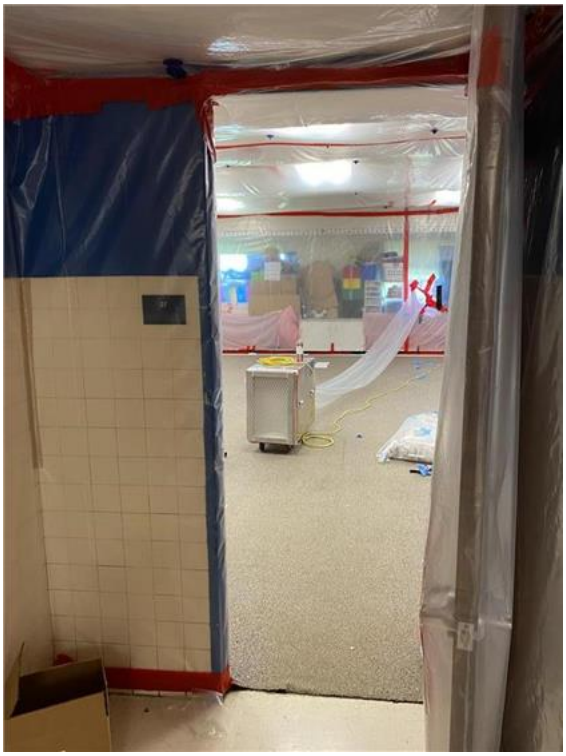
Figure 3



View of upper level work work area during the pre-abatement walk-through (2)

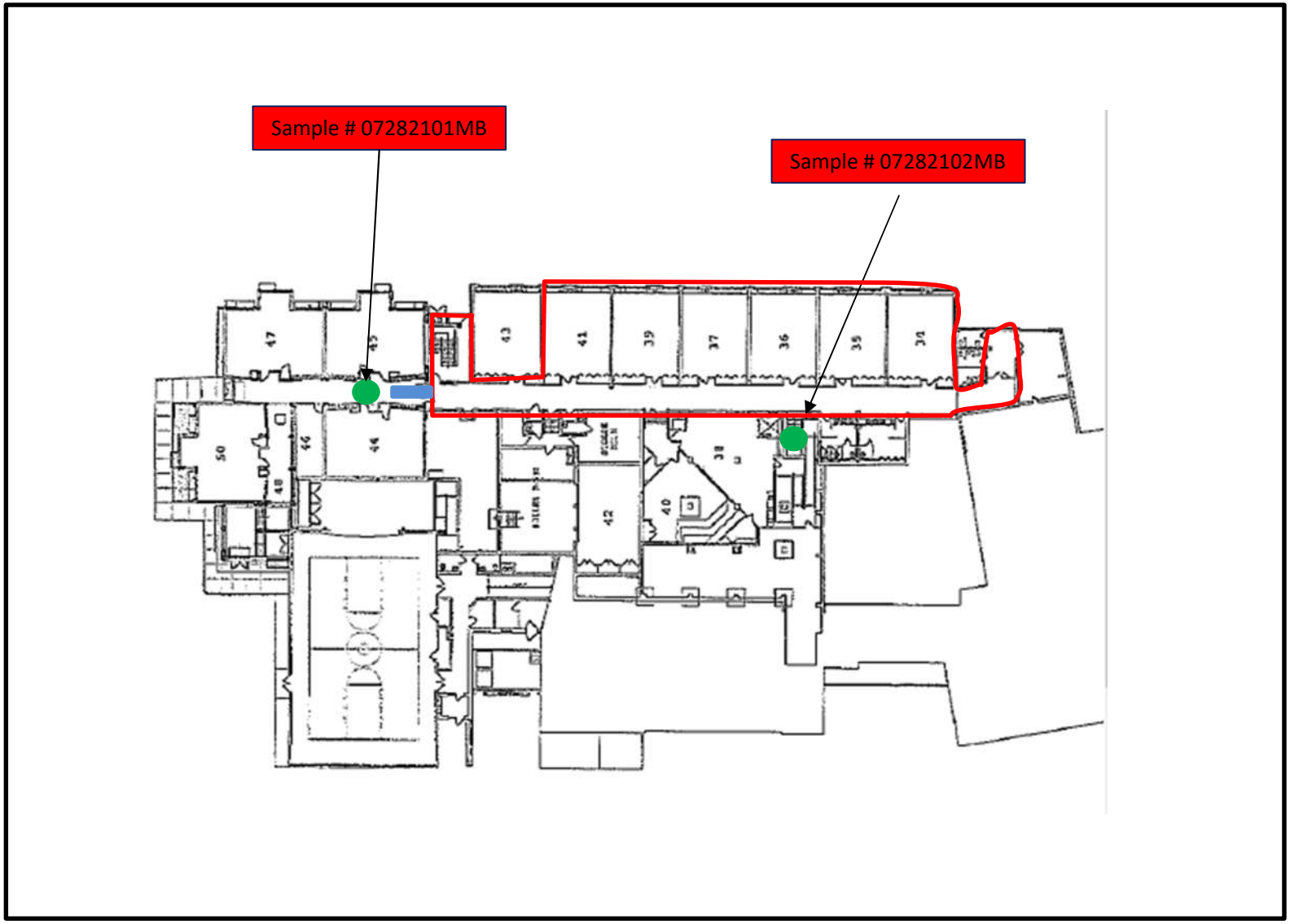
Figure 4

Attachments



View of upper level work work area during the pre-abatement walk-through (3)

Figure 5



Legend

= Regulated Work Area

= Decontamination Unit

= Sample Location

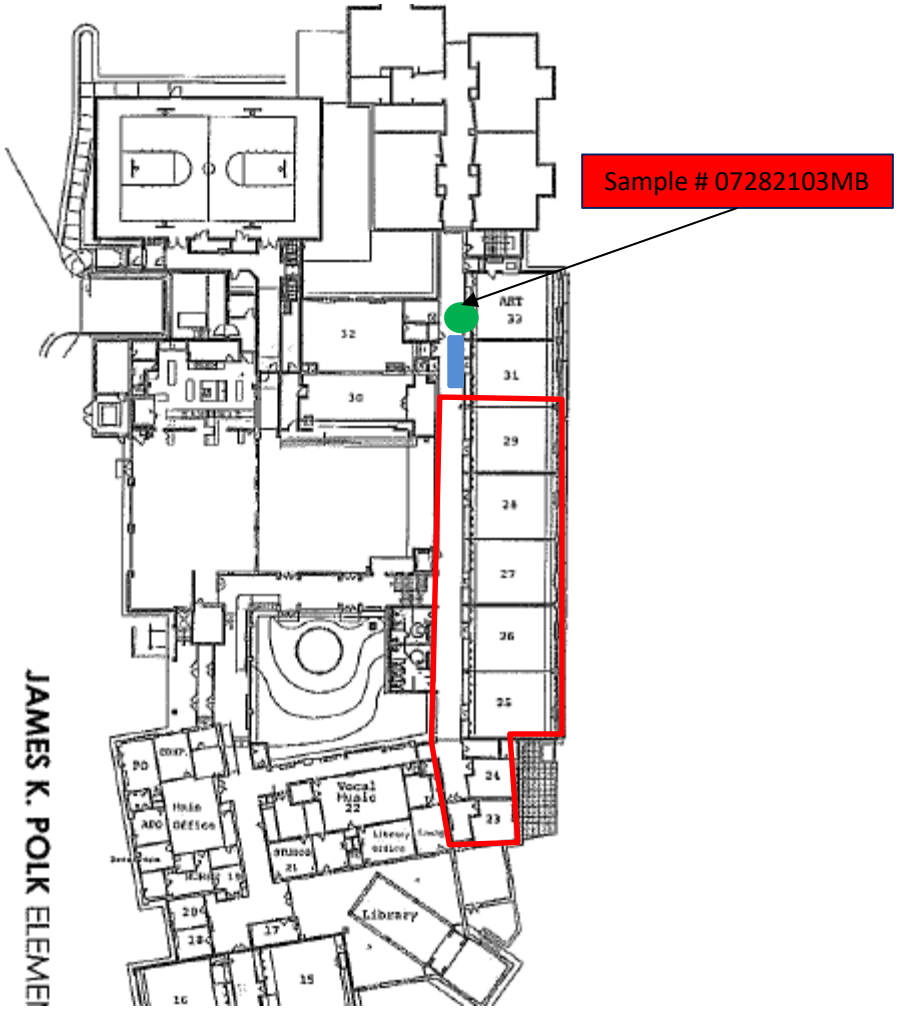
James Polk ES
5000 Polk Ave,
Alexandria, VA 22304

Work Area Sketch
Lower Level

SCALE NTS

Project No. 47:11652-G

Date 07/28/21



Legend

= Regulated Work Area

= Decontamination Unit

= Sample Location

James Polk ES
5000 Polk Ave,
Alexandria, VA 22304

Work Area Sketch
Upper Level

SCALE NTS

Project No. 47:11652-G

Date 07/28/21

ECS Mid-Atlantic, LLC

Daily Work Area Checklist

Project Number: 47:11652-G **Date:** 7/28/2021

Project Address: 5000 Polk Avenue
Alexandria, VA-22304

Work Area Location/Description: Second Floor Hallway and Classrooms 23 - 29 - Floor Tile and Associated Mastic

	Work Area Location/Description	Second Floor Hallway and
Decontamination Enclosure	Floors and Walls Clean	Satisfactory
	No Debris Present	Satisfactory
	Signage Intact	Satisfactory
	Shower Functioning	Satisfactory
	Used Suits/Towels in Waste Bag	Satisfactory
Interior of Work Area	All Critical Barriers Intact	Satisfactory
	Wet Methods In-Use	Satisfactory
	Prompt Clean-Up	Satisfactory
	Adequate Lighting	Satisfactory
	Respiratory Protection	Satisfactory
	Disposable Clothing Worn Properly	Satisfactory
	No Respirators Stored in Work Area	Satisfactory
	Negative Air Filtration In-Use	Satisfactory
	Pre-Filters Clean	Satisfactory
	Exhaust Properly Vented	Satisfactory
	No Eating/Drinking/Smoking in Work Area	Satisfactory
End of Shift Checklist	Negative Air Filtration Machines Operating	Satisfactory
	Debris Bagged/Sealed	Satisfactory
	Work Area Secured from Public Access	Satisfactory
Air Samples Collected	Number of PCM Air Samples	1
	Number of PCM Blank Samples	2
	Work Area Acceptable	Yes

Notes:

ECS Technician: Catey Bourne **Date:** 7/28/2021

ECS Mid-Atlantic, LLC

Daily Work Area Checklist

Project Number: 47:11652-G **Date:** 7/28/2021

Project Address: 5000 Polk Avenue
Alexandria, VA-22304

Work Area Location/Description: Lower Level Hallway, Stairwell, and Classrooms 34 – 39, and 41 - Floor Tile and Mastic

	Work Area Location/Description	Lower Level Hallway, Stairwell, and
Decontamination Enclosure	Floors and Walls Clean	Satisfactory
	No Debris Present	Satisfactory
	Signage Intact	Satisfactory
	Shower Functioning	Satisfactory
	Used Suits/Towels in Waste Bag	Satisfactory
Interior of Work Area	All Critical Barriers Intact	Satisfactory
	Wet Methods In-Use	Satisfactory
	Prompt Clean-Up	Satisfactory
	Adequate Lighting	Satisfactory
	Respiratory Protection	Satisfactory
	Disposable Clothing Worn Properly	Satisfactory
	No Respirators Stored in Work Area	Satisfactory
	Negative Air Filtration In-Use	Satisfactory
	Pre-Filters Clean	Satisfactory
	Exhaust Properly Vented	Satisfactory
	No Eating/Drinking/Smoking in Work Area	Satisfactory
End of Shift Checklist	Negative Air Filtration Machines Operating	Satisfactory
	Debris Bagged/Sealed	Satisfactory
	Work Area Secured from Public Access	Satisfactory
Air Samples Collected	Number of PCM Air Samples	2
	Number of PCM Blank Samples	2
	Work Area Acceptable	Yes

Notes:

ECS Technician: Catey Bourne **Date:** 7/28/2021

ECS Mid-Atlantic, LLC

Pre-Abatement Work Area Checklist

Project Number: 47:11652-G **Date:** 7/28/2021

Project Address: 5000 Polk Avenue
Alexandria, VA-22304

Work Area Location/Description: Second Floor Hallway and Classrooms 23 - 29 - Floor Tile and Associated Mastic

	Work Area Location/Description	Second Floor Hallway and
Administrative	Training Certificates/Licenses	Satisfactory
	Permits	Satisfactory
	EPA/State/Local Notification	Satisfactory
Work Area	Public Access Restricted	Satisfactory
	Warning Signs/Tape Posted	Satisfactory
Negative Air Filtration	Number of Units	7
	Pre-Filters In-Use/Available	Satisfactory
	Exhausted from Work Area	Satisfactory
	Pressure Differential Monometer Operating	Satisfactory
Equipment	HEPA Vacuum Available	Satisfactory
	Amended Water Sprayers	Satisfactory
Decontamination Enclosure	Clean Room	Satisfactory
	Shower Water Available	Satisfactory
	Waste Water Filtration In-Use	Satisfactory
	Disposable Towels	Satisfactory
	Soap	Satisfactory
	Equipment Room	Satisfactory
Personal Protective Equipment	Type of Respirator	half-face
	Type of Filters Used	P100
	Disposable Protective Clothing	Satisfactory
	Work Area Acceptable	Yes

Notes:

ECS Technician: Catey Bourne **Date:** 7/28/2021

ECS Mid-Atlantic, LLC
14026 Thunderbolt Place, Suite 100
Chantilly, VA 20151-3232
7034718400
7038345527

LETTER OF TRANSMITTAL

August 2, 2021

Alexandria City Public Schools
1340 Braddock Place Suite 620
Alexandria, VA 22314

ATTN: John Finnigan

RE: **ACPS James Polk ES Summer Abatement**
ECS Job # **47:11652-G**

Permits:
Location: **5000 Polk Avenue**
Alexandria, VA 22304

X	Field Reports	**X**	For your use	**X**	As requested

CC: Alexandria City Public Schools - John Contreras
Alexandria City Public Schools - Norman Wiebusch
Waco, Inc - Chris Lanham

ENCL: Field Report # 4 7/29/2021

Michael P. Hamill, CIH
Environmental Senior Project Manager

John A. O'Neil
Environmental Staff Project Manager

Disclaimer

1. *This report (and any attachments) shall not be reproduced except in full without prior written approval of ECS.*
2. *The information in this report relates only to the activities performed on the report date.*
3. *Where appropriate, this report includes statements as to compliance with applicable project drawings, and specifications for the activities, performed on this report date.*
4. *Incomplete or non-conforming work will be reported for future resolution.*
5. *The results of samples and/or specimens obtained or prepared for subsequent laboratory testing will be presented in separate reports/documents.*

ECS Mid-Atlantic, LLC
14026 Thunderbolt Place, Suite 100
Chantilly, VA 20151-3232
(703) 471-8400 [Phone]
(703) 834-5527 [Fax]

FIELD REPORT

Project	**ACPS James Polk ES Summer Abatement**
Location	**Alexandria, VA**
Client	**Alexandria City Public Schools**
Contractor	**None Listed**

Project No.	**47:11652-G**
Report No.	**4**
Day & Date	**Thursday 7/29/2021**
Weather	**90 °/ Cloudy**
On-Site Time	**8.50**
Lab Time	**0.00**
Travel Time*	**0.00**
Total	**8.50**
Re Obs Time	**0.00**

Remarks

Trip Charges*	Tolls/Parking*	Mileage*	Times of	Arrival	Departure
Chargeable Items				**7:00A**	**2:00P**
				3:00P	**4:30P**

* Travel time and mileage will be billed in accordance with the contract.

Summary of Services Performed (field test data, locations, elevations & depths are estimates) & Individuals Contacted.

The undersigned arrived on-site, as requested, to perform air monitoring and observe asbestos abatement. The materials to be removed today are floor tile with associated black floor mastic in the lower level hallway, stairwell, and classrooms 34 – 39, and 41 and the upper level hallway and classrooms 23 - 29. Photographs and a sketch for today's regulated work area are attached to this report.

LOWER LEVEL HALLWAY, STAIRWELL, AND CLASSROOMS 34 – 39, and 41, WORK AREA MONITORING

Between 7:06 and 7:16 am, PCM air samples were started outside the work area at the decontamination unit entry and the critical barrier in the stairwell. The sampling pumps were calibrated using a rotameter to 2.0 liters per minute.

Abatement workers were observed removing floor mastic using a grinder machine with a HEPA vacuum attachment. Water sprayers were utilized during abatement activities.

Between 3:45 and 3:47 pm, the sampling pumps were checked using a rotameter. The flow rate was 2.0 liters per minute. The PCM air samples were stopped and gathered from outside the work area.

UPPER LEVEL HALLWAY AND CLASSROOMS 23 – 29 WORK AREA MONITORING

Between 7:08 and 7:18 am, PCM air samples were started outside the work area at the decontamination unit entry and the critical barrier in the hallway. The sampling pumps were calibrated using a rotameter to 2.0 liters per minute.

Abatement workers were observed removing floor tile and carpet with a scraper machine. Water sprayers were utilized during the abatement activities.

By JP Nuique 1825

Between 3:50 and 3:52 pm, the sampling pumps were checked using a rotameter. The flow rate was 2.0 liters per minute. The PCM air samples were stopped and gathered from outside the work area.

GENERAL

The regulated work area was surveyed to evaluate general compliance with applicable regulations. The Daily Work Area Survey Checklist was completed and is attached to this report.

ECS observed the abatement contractor placing the specified asbestos-containing materials in 6-mil polyethylene bags in barrels which were double-bagged and sealed in general accordance with applicable regulations. Waste bags/barrels were labeled and placed in a waste hauling container.

The undersigned prepared and analyzed the PCM air samples cassettes for total fiber concentration in general accordance with NIOSH Method 7400. Results were recorded on the PCM Chain of Custody which is attached.

The US EPA and Commonwealth of Virginia PCM re-occupancy criteria is less than or equal to 0.01 fibers per cubic centimeter of air (f/cc). OWA samples were reported below the level.

The sample results reflect the conditions where the air samples were collected at the time and dates of collection.

ECS Mid-Atlantic, LLC

PCM Air Sample Field Data Sheet

WORK AREA SAMPLES

Project Number: 47:11652-G
Project Address: 5000 Polk Avenue
Alexandria, VA-22304

Date: 7/29/2021
Page: 1 of 1

Sample #	Location/Description	Start	Stop	Start Flow (lpm)	Stop Flow (lpm)	Average Flow (lpm)	Total Time (lpm)	Volume (l)	Fibers (#)	Field (#)	Result (f/cc)
07292101GN	OWA, Lower Level Work Area at Decontamination Unit Entry	7:16 AM	3:45 PM	2.0	2.0	2.0	509	1018.0	5.0	100	0.002
07292102GN	OWA, Lower Level Work Area at Critical Barrier Stairwell	7:06 AM	3:47 PM	2.0	2.0	2.0	521	1042.0	4.0	100	0.002
07292103GN	OWA, Upper Level Work Area at Decontamination Unit Entry	7:18 AM	3:50 PM	2.0	2.0	2.0	512	1024.0	10.0	100	0.005
07292104GN	OWA, Upper Level Work Area at Critical Barrier Hallway	7:08 AM	3:52 PM	2.0	2.0	2.0	524	1048.0	1.0	100	0.000
072921FB01GN	Field Blank	N/A	N/A	N/A	N/A	N/A	N/A	N/A	0.0	100	NFD
072921FB02GN	Field Blank	N/A	N/A	N/A	N/A	N/A	N/A	N/A	0.0	100	NFD

Notes: NFD = None Fibers Detected OWA = Outside Work Area IWA = Inside Work Area

Notes: The US EPA and Commonwealth of Virginia PCM re-occupancy criteria is less than or equal to 0.01 fibers per cubic centimeter of air (f/cc). OWA samples were reported below the level.

ECS Technician: JP Nuique **Date:** 7/29/2021

Attachments



View of abatement activities in the lower level work area

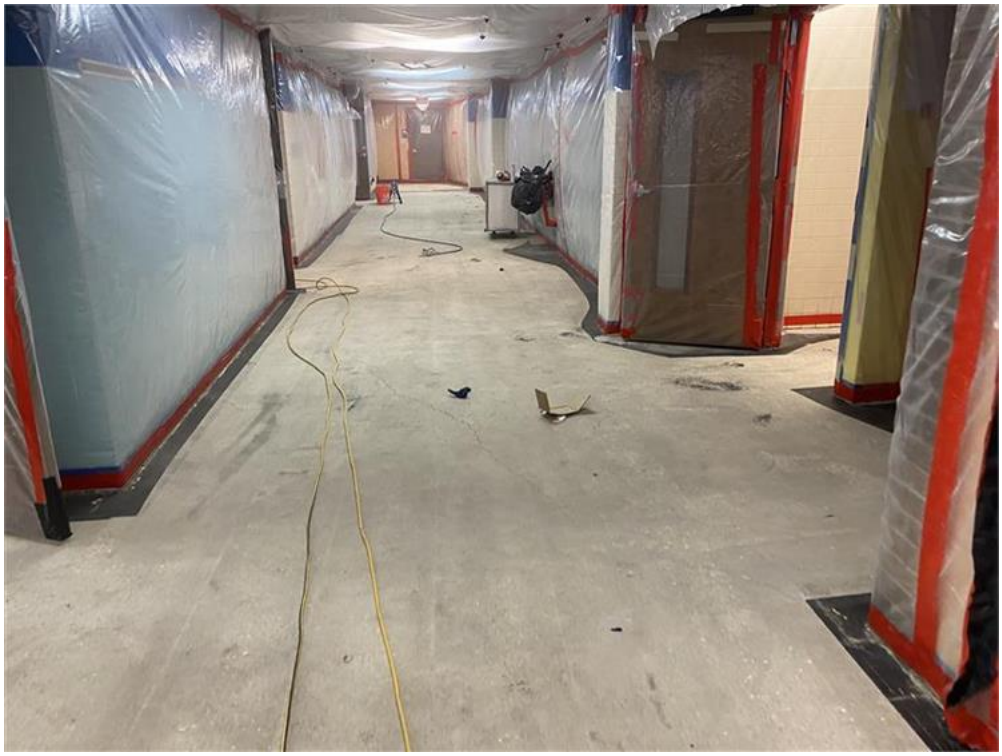
Figure 1



View of abatement activities in the lower level work area (3)

Figure 2

Attachments



View of abatement activities in the lower level work area (4)

Figure 3



View of abatement activities in the upper level work area (1)

Figure 4

Attachments



View of abatement activities in the upper level work area (2)

Figure 5



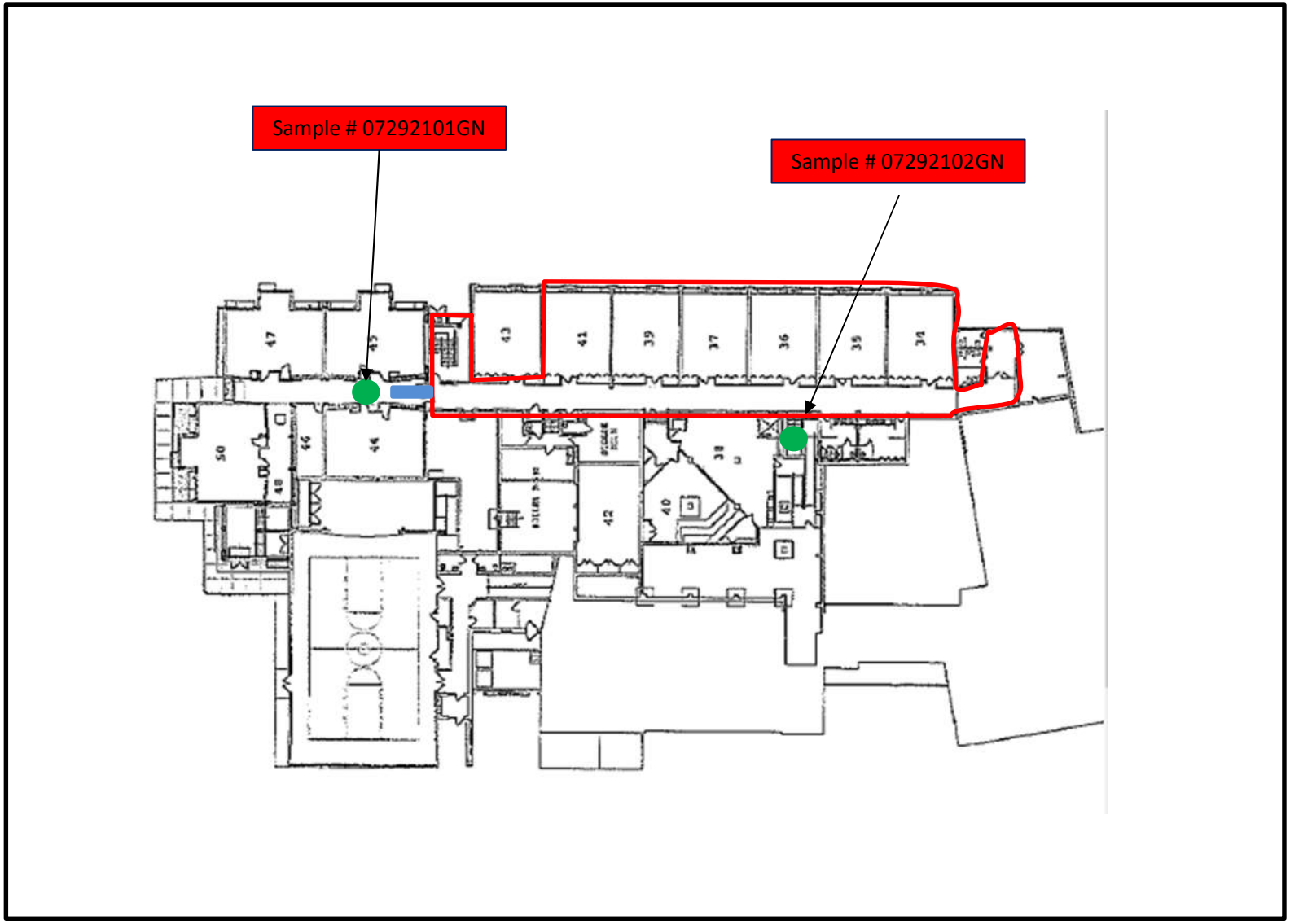
View of abatement activities in the upper level work area (3)

Figure 6



View of abatement activities in the upper level work area (4)

Figure 7



Legend

= Regulated Work Area

= Decontamination Unit

= Sample Location

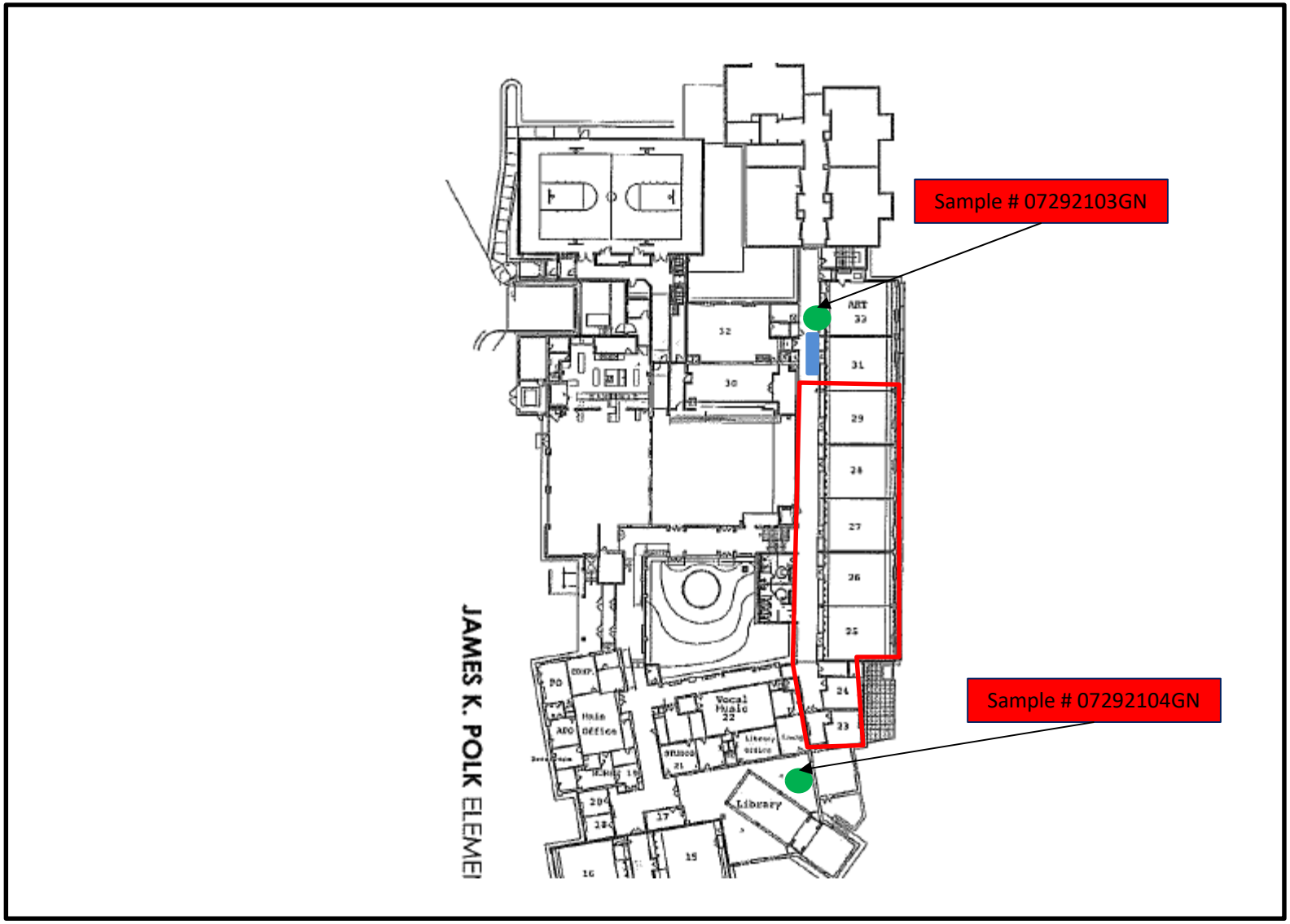
James Polk ES
5000 Polk Ave,
Alexandria, VA 22304

Work Area Sketch
Lower Level

SCALE NTS

Project No. 47:11652-G

Date 07/29/21



Legend

= Regulated Work Area

= Decontamination Unit

= Sample Location

James Polk ES
5000 Polk Ave,
Alexandria, VA 22304

Work Area Sketch
Upper Level

SCALE NTS

Project No. 47:11652-G

Date 07/29/21

ECS Mid-Atlantic, LLC

Daily Work Area Checklist

Project Number: 47:11652-G **Date:** 7/29/2021

Project Address: 5000 Polk Avenue
Alexandria, VA-22304

Work Area Location/Description: Second Floor Hallway and Classrooms 23 - 29 - Floor Tile and Associated Mastic

	Work Area Location/Description	Second Floor Hallway and
Decontamination Enclosure	Floors and Walls Clean	Satisfactory
	No Debris Present	Satisfactory
	Signage Intact	Satisfactory
	Shower Functioning	Satisfactory
	Used Suits/Towels in Waste Bag	Satisfactory
Interior of Work Area	All Critical Barriers Intact	Satisfactory
	Wet Methods In-Use	Satisfactory
	Prompt Clean-Up	Satisfactory
	Adequate Lighting	Satisfactory
	Respiratory Protection	Satisfactory
	Disposable Clothing Worn Properly	Satisfactory
	No Respirators Stored in Work Area	Satisfactory
	Negative Air Filtration In-Use	Satisfactory
	Pre-Filters Clean	Satisfactory
	Exhaust Properly Vented	Satisfactory
	No Eating/Drinking/Smoking in Work Area	Satisfactory
End of Shift Checklist	Negative Air Filtration Machines Operating	Satisfactory
	Debris Bagged/Sealed	Satisfactory
	Work Area Secured from Public Access	Satisfactory
Air Samples Collected	Number of PCM Air Samples	2
	Number of PCM Blank Samples	2
	Work Area Acceptable	Yes

Notes:

ECS Technician: Catey Bourne **Date:** 7/29/2021

ECS Mid-Atlantic, LLC

Daily Work Area Checklist

Project Number: 47:11652-G **Date:** 7/29/2021

Project Address: 5000 Polk Avenue
Alexandria, VA-22304

Work Area Location/Description: Lower Level Hallway, Stairwell, and Classrooms 34 – 39, and 41 - Floor Tile and Mastic

	Work Area Location/Description	Lower Level Hallway, Stairwell, and
Decontamination Enclosure	Floors and Walls Clean	Satisfactory
	No Debris Present	Satisfactory
	Signage Intact	Satisfactory
	Shower Functioning	Satisfactory
	Used Suits/Towels in Waste Bag	Satisfactory
Interior of Work Area	All Critical Barriers Intact	Satisfactory
	Wet Methods In-Use	Satisfactory
	Prompt Clean-Up	Satisfactory
	Adequate Lighting	Satisfactory
	Respiratory Protection	Satisfactory
	Disposable Clothing Worn Properly	Satisfactory
	No Respirators Stored in Work Area	Satisfactory
	Negative Air Filtration In-Use	Satisfactory
	Pre-Filters Clean	Satisfactory
	Exhaust Properly Vented	Satisfactory
	No Eating/Drinking/Smoking in Work Area	Satisfactory
End of Shift Checklist	Negative Air Filtration Machines Operating	Satisfactory
	Debris Bagged/Sealed	Satisfactory
	Work Area Secured from Public Access	Satisfactory
Air Samples Collected	Number of PCM Air Samples	2
	Number of PCM Blank Samples	2
	Work Area Acceptable	Yes

Notes:

ECS Technician: Catey Bourne **Date:** 7/29/2021

ECS Mid-Atlantic, LLC
14026 Thunderbolt Place, Suite 100
Chantilly, VA 20151-3232
7034718400
7038345527

LETTER OF TRANSMITTAL

August 4, 2021

Alexandria City Public Schools
1340 Braddock Place Suite 620
Alexandria, VA 22314

ATTN: John Finnigan

RE: **ACPS James Polk ES Summer Abatement**
ECS Job # **47:11652-G**

Permits:
Location: **5000 Polk Avenue**
Alexandria, VA 22304

X Field Reports **X** For your use **X** As requested

CC: Alexandria City Public Schools - John Contreras
Alexandria City Public Schools - Norman Wiebusch
Waco, Inc - Chris Lanham

ENCL: Field Report # 5 7/30/2021

Michael P. Hamill, CIH
Environmental Senior Project Manager

Catherine Bourne
Assistant Staff Project Manager

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3. *Where appropriate, this report includes statements as to compliance with applicable project drawings, and specifications for the activities, performed on this report date.*
4. *Incomplete or non-conforming work will be reported for future resolution.*
5. *The results of samples and/or specimens obtained or prepared for subsequent laboratory testing will be presented in separate reports/documents.*

ECS Mid-Atlantic, LLC
14026 Thunderbolt Place, Suite 100
Chantilly, VA 20151-3232
(703) 471-8400 [Phone]
(703) 834-5527 [Fax]

FIELD REPORT

Project	**ACPS James Polk ES Summer Abatement**
Location	**Alexandria, VA**
Client	**Alexandria City Public Schools**
Contractor	**None Listed**

Project No.	**47:11652-G**
Report No.	**5**
Day & Date	**Friday 7/30/2021**
Weather	**90 °/ Sunny**
On-Site Time	**8.00**
Lab Time	**0.00**
Travel Time*	**0.00**
Total	**8.00**
Re Obs Time	**0.00**

Remarks

Trip Charges*	Tolls/Parking*	Mileage*	Time of	Arrival	Departure
Chargeable Items				**8:30A**	**4:30P**

* Travel time and mileage will be billed in accordance with the contract.

Summary of Services Performed (field test data, locations, elevations & depths are estimates) & Individuals Contacted.

The undersigned arrived on-site, as requested, to perform air monitoring and observe asbestos abatement. The materials to be removed today are floor tile with associated black floor mastic in the lower level hallway, stairwell, and classrooms 34 – 39, and 41 and the upper level hallway and classrooms 23 - 29. Photographs and a sketch for today's regulated work area are attached to this report.

LOWER LEVEL HALLWAY, STAIRWELL, AND CLASSROOMS 34 – 39, and 41, WORK AREA MONITORING

Between 6:15 and 8:50 am, PCM air samples were started outside the work area at the decontamination unit entry and critical barrier in stairwell. The sampling pumps were calibrated using a rotameter to 2.0 liters per minute.

Abatement workers were observed removing floor mastic using grinder machine with HEPA vacuum attachments and final cleaned work area. Water sprayers were utilized during abatement activities.

Between 3:15 and 3:30 pm, the sampling pumps were checked using a rotameter. The flow rate was 2.0 liters per minute. The PCM air samples were stopped and gathered from outside the work area.

UPPER LEVEL HALLWAY AND CLASSROOMS 23 – 29 WORK AREA MONITORING

Between 6:20 and 8:52 am, PCM air samples were started outside the work area at decontamination unit entry and critical barrier in the hallway. The sampling pumps were calibrated using a rotameter to 2.0 liters per minute.

Abatement workers were observed removing floor tile and floor mastic with scraper machine and blast track machine. Water sprayers were utilized during abatement activities.

By JP Nuique 1825

Between 3:17 and 3:32 pm, the sampling pumps were checked using a rotameter. The flow rate was 2.0 liters per minute. The PCM air samples were stopped and gathered from outside the work area.

GENERAL

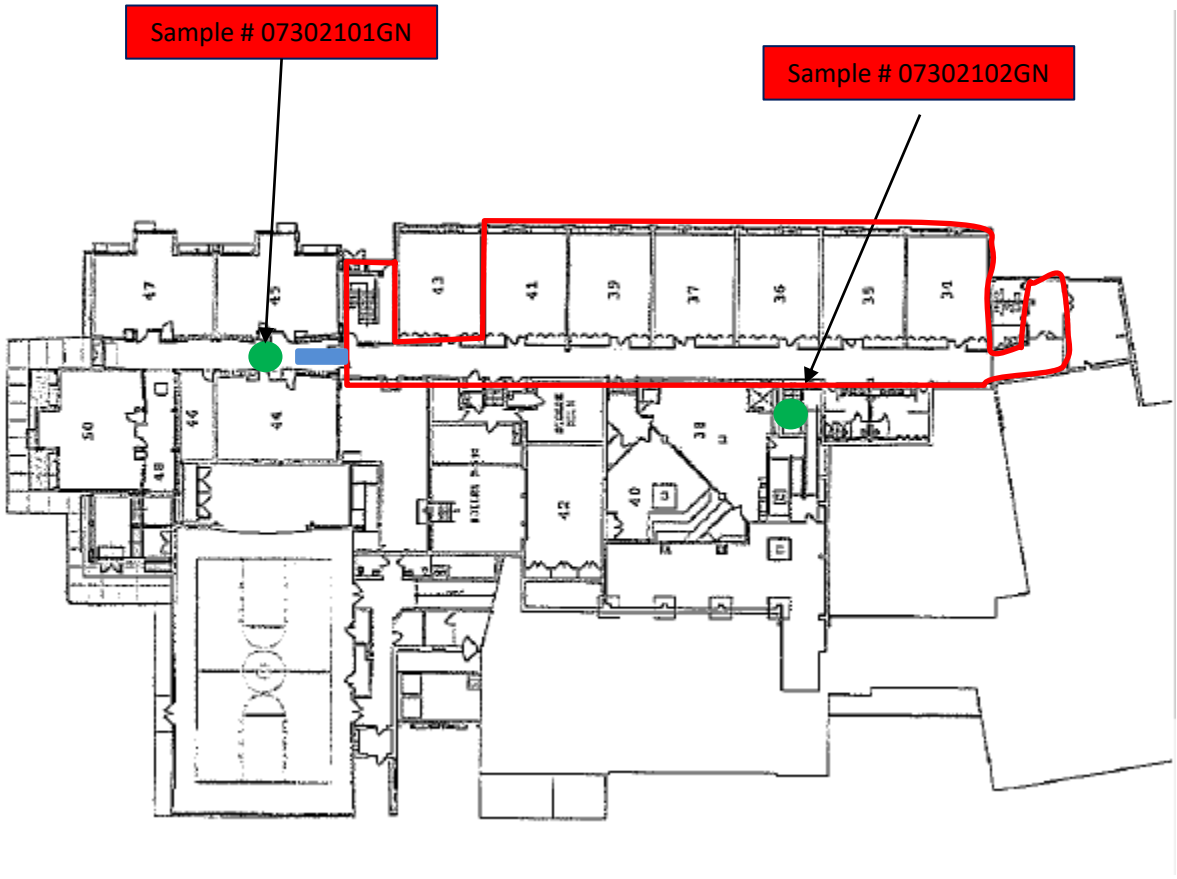
The regulated work area was surveyed to evaluate general compliance with applicable regulations. The Daily Work Area Survey Checklist was completed and is attached to this report.

ECS observed the abatement contractor placing the specified asbestos-containing materials in 6-mil polyethylene bags which were double-bagged and barrels and sealed in general accordance with applicable regulations. Waste bags/barrels were labeled and placed in a waste hauling container.

The undersigned prepared and analyzed the PCM air samples cassettes for total fiber concentration in general accordance with NIOSH Method 7400. Results were recorded on the PCM Chain of Custody which is attached.

The US EPA and Commonwealth of Virginia PCM re-occupancy criteria is less than or equal to 0.01 fibers per cubic centimeter of air (f/cc). OWA samples were reported below the level.

The sample results reflect the conditions where the air samples were collected at the time and dates of collection.



Legend

= Regulated Work Area

= Decontamination Unit

= Sample Location

Transmittal Page 4/11

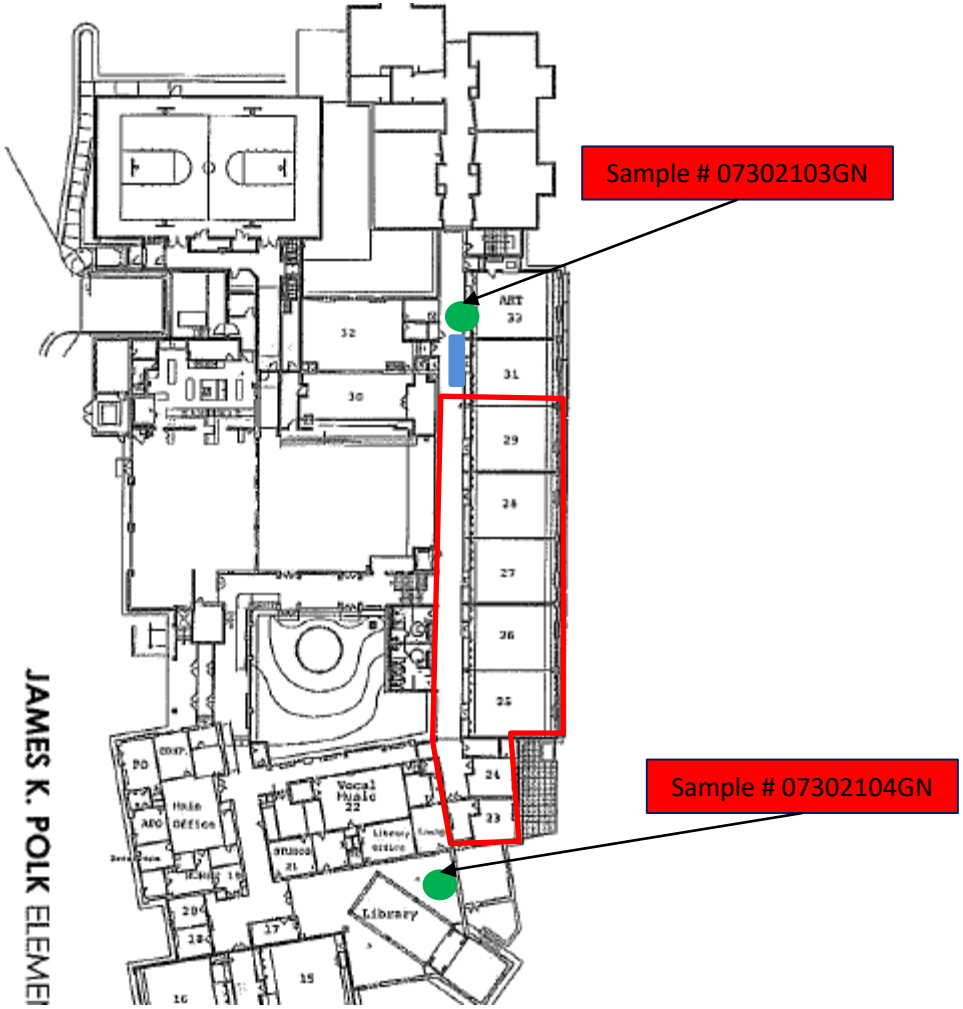
James Polk ES
5000 Polk Ave,
Alexandria, VA 22304

Work Area Sketch
Lower Level

SCALE NTS

Project No. 47:11652-G

Date 07/30/21



Legend

= Regulated Work Area

= Decontamination Unit

= Sample Location

Transmittal Page 5/11

James Polk ES
5000 Polk Ave,
Alexandria, VA 22304

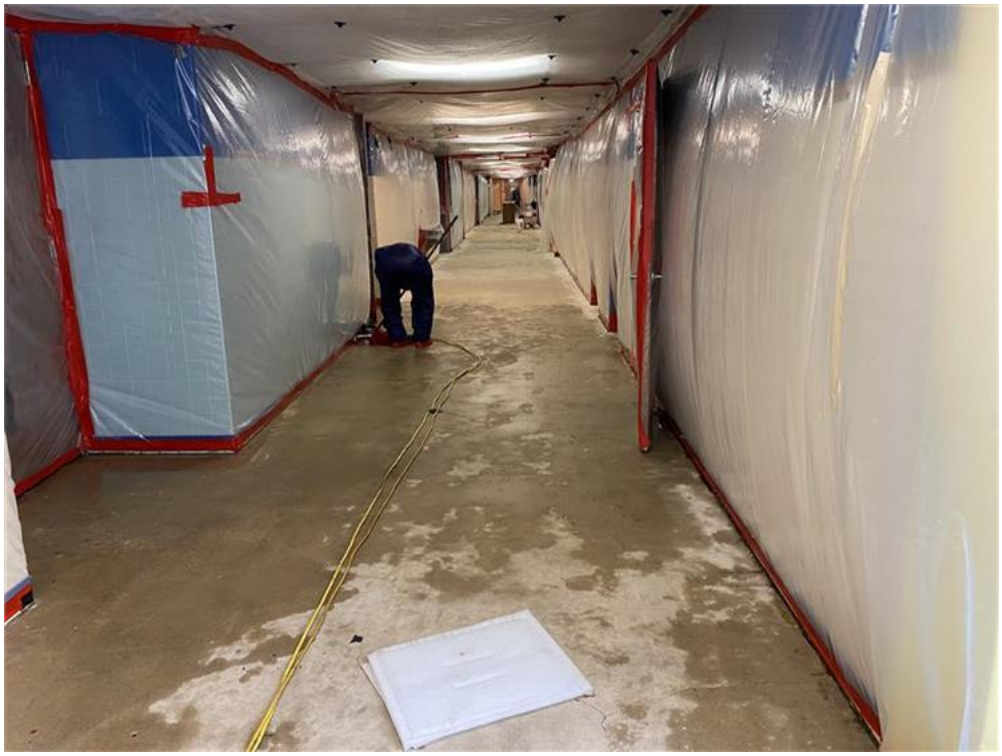
Work Area Sketch
Upper Level

SCALE NTS

Project No. 47:11652-G

Date 07/30/21

Attachments



View of abatement activities in the lower level work area

Figure 1



View of abatement activities in the lower level work area

Figure 2

Attachments



View of abatement activities in the lower level work area

Figure 3



View of abatement activities in the upper level work area

Figure 4

Attachments



View of abatement activities in the upper level work area

Figure 5



View of abatement activities in the upper level work area

Figure 6

ECS Mid-Atlantic, LLC

Daily Work Area Checklist

Project Number: 47:11652-G **Date:** 7/31/2021

Project Address: 5000 Polk Avenue
Alexandria, VA-22304

Work Area Location/Description: Upper Level

	Work Area Location/Description	Upper Level
Decontamination Enclosure	Floors and Walls Clean	Satisfactory
	No Debris Present	Satisfactory
	Signage Intact	Satisfactory
	Shower Functioning	Satisfactory
	Used Suits/Towels in Waste Bag	Satisfactory
Interior of Work Area	All Critical Barriers Intact	Satisfactory
	Wet Methods In-Use	Satisfactory
	Prompt Clean-Up	Satisfactory
	Adequate Lighting	Satisfactory
	Respiratory Protection	Satisfactory
	Disposable Clothing Worn Properly	Satisfactory
	No Respirators Stored in Work Area	Satisfactory
	Negative Air Filtration In-Use	Satisfactory
	Pre-Filters Clean	Satisfactory
	Exhaust Properly Vented	Satisfactory
	No Eating/Drinking/Smoking in Work Area	Satisfactory
End of Shift Checklist	Negative Air Filtration Machines Operating	Satisfactory
	Debris Bagged/Sealed	Satisfactory
	Work Area Secured from Public Access	Satisfactory
Air Samples Collected	Number of PCM Air Samples	2
	Number of PCM Blank Samples	2
	Work Area Acceptable	Yes

Notes:

ECS Technician: Catey Bourne **Date:** 7/31/2021

ECS Mid-Atlantic, LLC

PCM Air Sample Field Data Sheet

WORK AREA SAMPLES

Project Number: 47:11652-G
Project Address: 5000 Polk Avenue
Alexandria, VA-22304

Date: 7/30/2021
Page: 1 of 1

Sample #	Location/Description	Start	Stop	Start Flow (lpm)	Stop Flow (lpm)	Average Flow (lpm)	Total Time (lpm)	Volume (l)	Fibers (#)	Field (#)	Result (f/cc)
07302101GN	OWA,1st Floor Work Area at Decontamination Unit Entry	6:15 AM	3:15 PM	2.0	2.0	2.0	540	1080.0	4.0	100	0.002
07302102GN	OWA,1st Floor Work Area at Critical Barrier by the Stairwell	8:50 AM	3:30 PM	2.0	2.0	2.0	400	800.0	1.0	100	0.001
07302103GN	OWA,2nd Floor Work Area at Decontamination Unit Entry	6:20 AM	3:17 PM	2.0	2.0	2.0	537	1074.0	5.0	100	0.002
07302104GN	OWA,2nd Floor Work Area at Critical Barrier by the Library	8:52 AM	3:32 PM	2.0	2.0	2.0	400	800.0	1.0	100	0.001
073021FB01GN	Field Blank	N/A	N/A	N/A	N/A	N/A	N/A	N/A	0.0	100	NFD
073021FB02GN	Field Blank	N/A	N/A	N/A	N/A	N/A	N/A	N/A	0.0	100	NFD

Notes: NFD = None Fibers Detected OWA = Outside Work Area IWA = Inside Work Area

Notes: The US EPA and Commonwealth of Virginia PCM re-occupancy criteria is less than or equal to 0.01 fibers per cubic centimeter of air (f/cc). OWA samples were reported below the level.

ECS Technician: JP Nuique **Date:** 7/30/2021

ECS Mid-Atlantic, LLC

Daily Work Area Checklist

Project Number: 47:11652-G **Date:** 7/31/2021

Project Address: 5000 Polk Avenue
Alexandria, VA-22304

Work Area Location/Description: Lower Level

	Work Area Location/Description	Lower Level
Decontamination Enclosure	Floors and Walls Clean	Satisfactory
	No Debris Present	Satisfactory
	Signage Intact	Satisfactory
	Shower Functioning	Satisfactory
	Used Suits/Towels in Waste Bag	Satisfactory
Interior of Work Area	All Critical Barriers Intact	Satisfactory
	Wet Methods In-Use	Satisfactory
	Prompt Clean-Up	Satisfactory
	Adequate Lighting	Satisfactory
	Respiratory Protection	Satisfactory
	Disposable Clothing Worn Properly	Satisfactory
	No Respirators Stored in Work Area	Satisfactory
	Negative Air Filtration In-Use	Satisfactory
	Pre-Filters Clean	Satisfactory
	Exhaust Properly Vented	Satisfactory
	No Eating/Drinking/Smoking in Work Area	Satisfactory
End of Shift Checklist	Negative Air Filtration Machines Operating	Satisfactory
	Debris Bagged/Sealed	Satisfactory
	Work Area Secured from Public Access	Satisfactory
Air Samples Collected	Number of PCM Air Samples	2
	Number of PCM Blank Samples	2
	Work Area Acceptable	Yes

Notes:

ECS Technician: Catey Bourne **Date:** 7/31/2021

ECS Mid-Atlantic, LLC
14026 Thunderbolt Place, Suite 100
Chantilly, VA 20151-3232
7034718400
7038345527

LETTER OF TRANSMITTAL

August 4, 2021

Alexandria City Public Schools
1340 Braddock Place Suite 620
Alexandria, VA 22314

ATTN: John Finnigan

RE: **ACPS James Polk ES Summer Abatement**
ECS Job # **47:11652-G**

Permits:
Location: **5000 Polk Avenue**
Alexandria, VA 22304

X	Field Reports	**X**	For your use	**X**	As requested

CC: Alexandria City Public Schools - John Contreras
Alexandria City Public Schools - Norman Wiebusch
Waco, Inc - Chris Lanham

ENCL: Field Report # 6 7/31/2021

Michael P. Hamill, CIH
Environmental Senior Project Manager

Catherine Bourne
Assistant Staff Project Manager

Disclaimer

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2. *The information in this report relates only to the activities performed on the report date.*
3. *Where appropriate, this report includes statements as to compliance with applicable project drawings, and specifications for the activities, performed on this report date.*
4. *Incomplete or non-conforming work will be reported for future resolution.*
5. *The results of samples and/or specimens obtained or prepared for subsequent laboratory testing will be presented in separate reports/documents.*

ECS Mid-Atlantic, LLC
14026 Thunderbolt Place, Suite 100
Chantilly, VA 20151-3232
(703) 471-8400 [Phone]
(703) 834-5527 [Fax]

FIELD REPORT

Project	**ACPS James Polk ES Summer Abatement**
Location	**Alexandria, VA**
Client	**Alexandria City Public Schools**
Contractor	**None Listed**

Project No.	**47:11652-G**
Report No.	**6**
Day & Date	**Saturday 7/31/2021**
Weather	**90 °/ Sunny**
On-Site Time	**10.50**
Lab Time	**0.00**
Travel Time*	**0.00**
Total	**10.50**
Re Obs Time	**0.00**

Remarks

Trip Charges*	Tolls/Parking*	Mileage*	Time of	Arrival	Departure
Chargeable Items				**6:00A**	**4:30P**

* Travel time and mileage will be billed in accordance with the contract.

Summary of Services Performed (field test data, locations, elevations & depths are estimates) & Individuals Contacted.

The undersigned arrived on-site, as requested, to perform air monitoring and observe asbestos abatement. The materials to be removed today are floor tile with associated black floor mastic in the lower level hallway, stairwell, and classrooms 34 – 39, and 41 and the upper level hallway and classrooms 23 - 29. Photographs and a sketch for today's regulated work area are attached to this report.

LOWER LEVEL HALLWAY, STAIRWELL, AND CLASSROOMS 34 – 39, and 41, WORK AREA MONITORING

Between 6:15 and 8:50 am, PCM air samples were started outside the work area at decontamination unit entry and critical barrier in stairwell. The sampling pumps were calibrated using a rotameter to 2.0 liters per minute.

Abatement workers were observed removing floor mastic using grinder machine with HEPA vacuum attachments and final cleaned work area. Water sprayers were utilized during abatement activities.

Between 2:00 and 2:04 pm, the sampling pumps were checked using a rotameter. The flow rate was 2.0 liters per minute. The PCM air samples were stopped and gathered from outside the work area.

The abatement contractor stated the specified materials have been removed from the regulated work area and requested a visual survey to confirm compliance. The Final Clearance Visual Survey Checklist was completed and is attached to this report.

Following the successful completion of the final clearance visual survey, the abatement contractor applied an encapsulant to surfaces within the regulated work area. ECS will collect the final clearance TEM air samples on the next working shift.

UPPER LEVEL HALLWAY AND CLASSROOMS 23 – 29 WORK AREA MONITORING

By JP Nuique 1825

Between 6:20 and 8:52 am, PCM air samples were started outside the work area at decontamination unit entry and critical barrier in the hallway. The sampling pumps were calibrated using a rotameter to 2.0 liters per minute.

Abatement workers were observed removing floor tile and floor mastic with scraper machine and blast track machine. Water sprayers were utilized during abatement activities.

Between 2:04 and 2:06 pm, the sampling pumps were checked using a rotameter. The flow rate was 2.0 liters per minute. The PCM air samples were stopped and gathered from outside the work area.

GENERAL

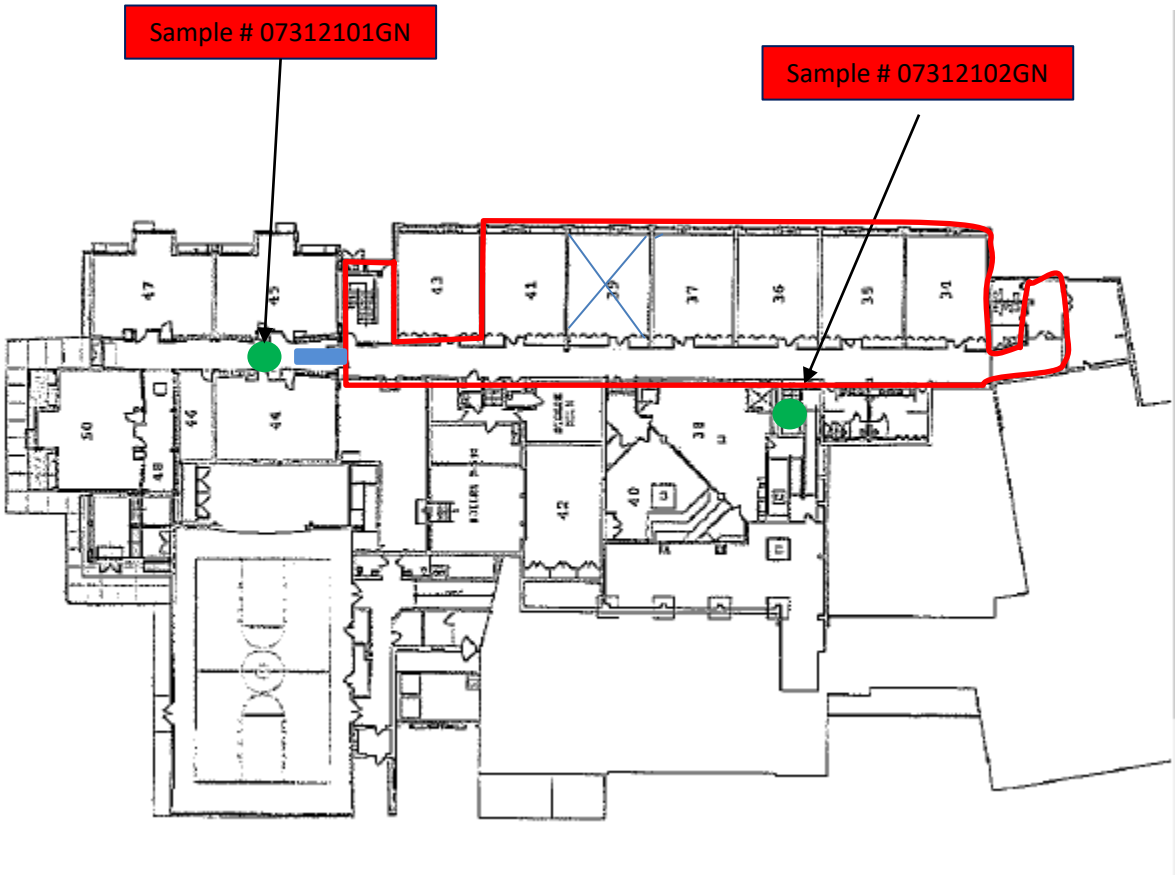
The regulated work area was surveyed to evaluate general compliance with applicable regulations. The Daily Work Area Survey Checklist was completed and is attached to this report.

ECS observed the abatement contractor placing the specified asbestos-containing materials in 6-mil polyethylene bags in barrels which were double-bagged and sealed in general accordance with applicable regulations. Waste bags/barrels were labeled and placed in a waste hauling container.

The undersigned prepared and analyzed the PCM air samples cassettes for total fiber concentration in general accordance with NIOSH Method 7400. Results were recorded on the PCM Chain of Custody which is attached.

The US EPA and Commonwealth of Virginia PCM re-occupancy criteria is less than or equal to 0.01 fibers per cubic centimeter of air (f/cc). OWA samples were reported below the level.

The sample results reflect the conditions where the air samples were collected at the time and dates of collection.



Legend

= Regulated Work Area

= Decontamination Unit

= Sample Location

Transmittal Page 4/16

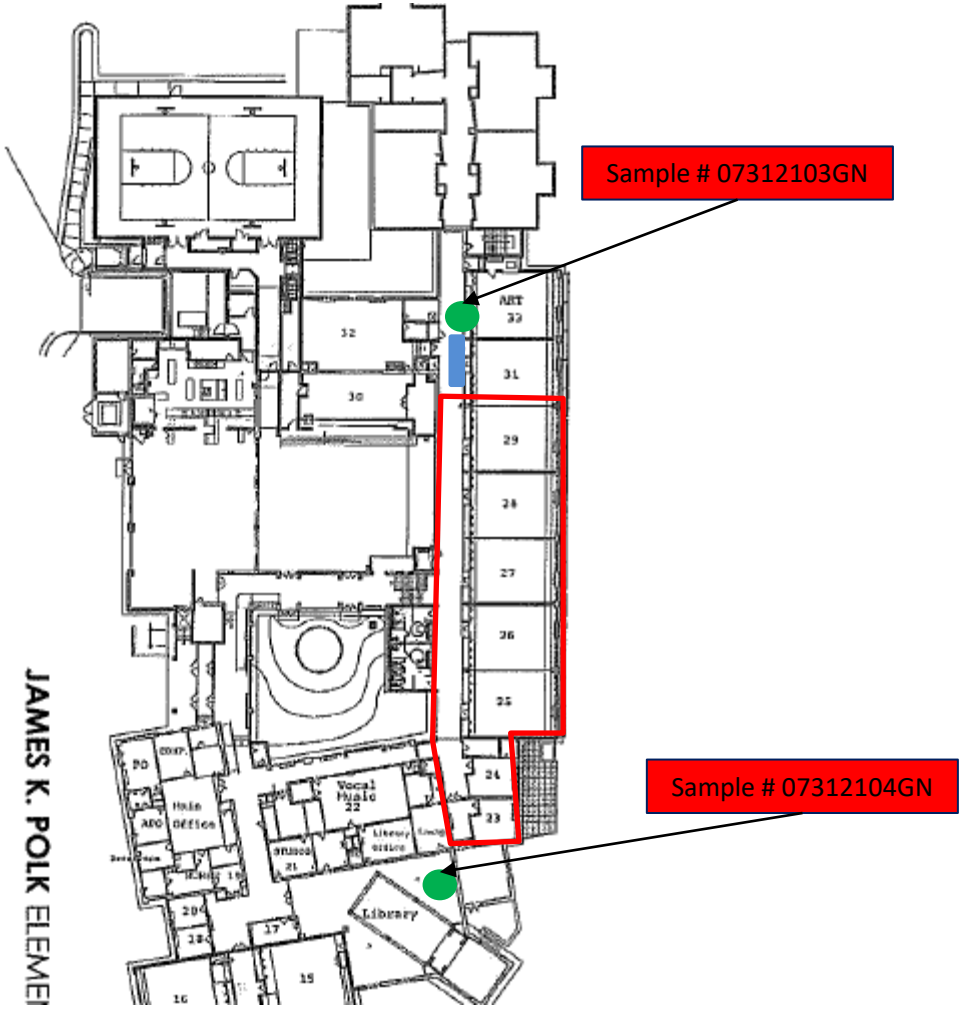
James Polk ES
5000 Polk Ave,
Alexandria, VA 22304

Work Area Sketch
Lower Level

SCALE NTS

Project No. 47:11652-G

Date 07/31/21



Legend

= Regulated Work Area

= Decontamination Unit

= Sample Location

Transmittal Page 5/16

James Polk ES
5000 Polk Ave,
Alexandria, VA 22304

Work Area Sketch
Upper Level

SCALE NTS

Project No. 47:11652-G

Date 07/31/21

Attachments



View of the 1st floor work area following abatement activities

Figure 1



View of the 1st floor work area following abatement activities

Figure 2

Attachments



View of the 1st floor work area following abatement activities

Figure 3



View of the 1st floor work area following abatement activities

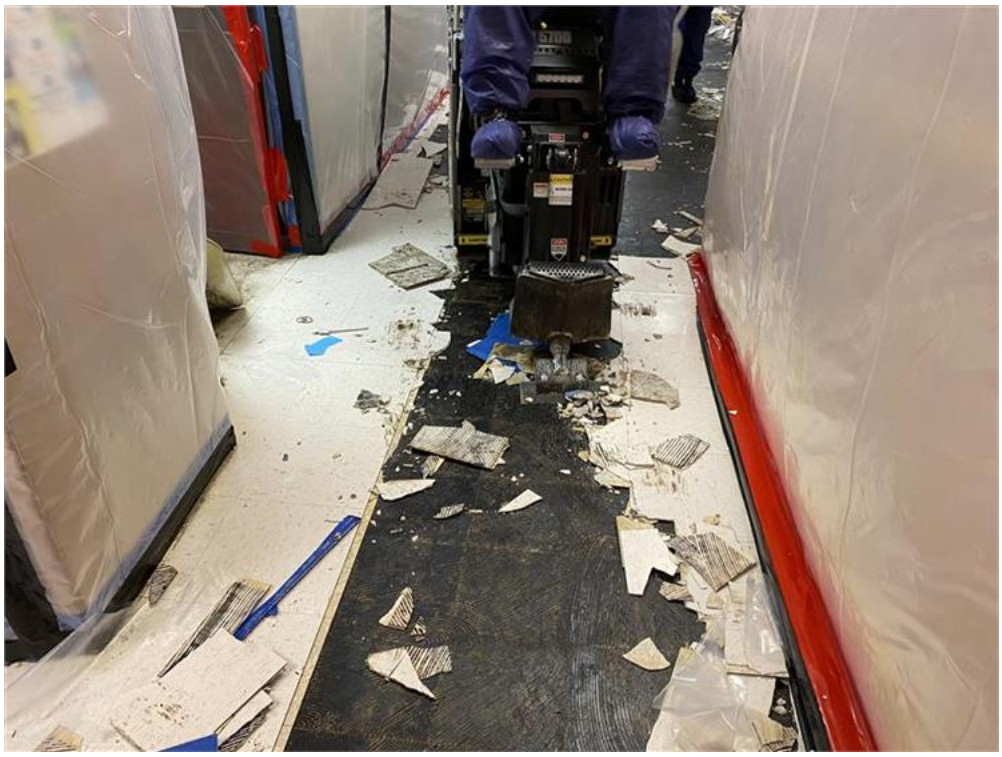
Figure 4

Attachments



View of the 1st floor work area following abatement activities

Figure 5



View of abatement activities in the 2nd floor work area

Figure 6

Attachments



View of abatement activities in the 2nd floor work area

Figure 7



View of abatement activities in the 2nd floor work area

Figure 8



View of abatement activities in the 2nd floor work area

Figure 9



View of abatement activities in the 2nd floor work area

Figure 10

Attachments



View of the 1st floor work area following abatement activities

Figure 11



View of the 1st floor work area following abatement activities

Figure 12

Attachments



View of the 1st floor work area following abatement activities

Figure 13

ECS Mid-Atlantic, LLC

Daily Work Area Checklist

Project Number: 47:11652-G **Date:** 7/31/2021

Project Address: 5000 Polk Avenue
Alexandria, VA-22304

Work Area Location/Description: 2nd Floor

	Work Area Location/Description	2nd Floor
Decontamination Enclosure	Floors and Walls Clean	Satisfactory
	No Debris Present	Satisfactory
	Signage Intact	Satisfactory
	Shower Functioning	Satisfactory
	Used Suits/Towels in Waste Bag	Satisfactory
Interior of Work Area	All Critical Barriers Intact	Satisfactory
	Wet Methods In-Use	Satisfactory
	Prompt Clean-Up	Satisfactory
	Adequate Lighting	Satisfactory
	Respiratory Protection	Satisfactory
	Disposable Clothing Worn Properly	Satisfactory
	No Respirators Stored in Work Area	Satisfactory
	Negative Air Filtration In-Use	Satisfactory
	Pre-Filters Clean	Satisfactory
	Exhaust Properly Vented	Satisfactory
	No Eating/Drinking/Smoking in Work Area	Satisfactory
End of Shift Checklist	Negative Air Filtration Machines Operating	Satisfactory
	Debris Bagged/Sealed	Satisfactory
	Work Area Secured from Public Access	Satisfactory
Air Samples Collected	Number of PCM Air Samples	2
	Number of PCM Blank Samples	2
	Work Area Acceptable	Yes

Notes:

ECS Technician: Catey Bourne **Date:** 7/31/2021

ECS Mid-Atlantic, LLC

PCM Air Sample Field Data Sheet

WORK AREA SAMPLES

Project Number: 47:11652-G
Project Address: 5000 Polk Avenue
Alexandria, VA-22304

Date: 7/31/2021
Page: 1 of 1

Sample #	Location/Description	Start	Stop	Start Flow (lpm)	Stop Flow (lpm)	Average Flow (lpm)	Total Time (lpm)	Volume (l)	Fibers (#)	Field (#)	Result (f/cc)
07312101GN	OWA,1st Floor Work Area at Decontamination Unit Entry	6:52 AM	2:00 PM	2.0	2.0	2.0	428	856.0	2.0	100	0.001
07312102GN	OWA,1st Floor Work Area at Critical Barrier by the Stairwell	7:30 AM	2:04 PM	2.0	2.0	2.0	394	788.0	0.0	100	0.000
07312103GN	OWA,2nd Floor Work Area at Decontamination Unit Entry	6:54 AM	2:02 PM	2.0	2.0	2.0	428	856.0	2.0	100	0.001
07312104GN	OWA,2nd Floor Work Area at Critical Barrier by the Library	7:32 AM	2:06 PM	2.0	2.0	2.0	394	788.0	0.0	100	0.000
073121FB01GN	Field Blank	N/A	N/A	N/A	N/A	N/A	N/A	N/A	0.0	100	NFD
073121FB02GN	Field Blank	N/A	N/A	N/A	N/A	N/A	N/A	N/A	0.0	100	NFD

Notes: NFD = None Fibers Detected OWA = Outside Work Area IWA = Inside Work Area

Notes:

ECS Technician: JP Nuique

Date: 7/31/2021

ECS Mid-Atlantic, LLC

Daily Work Area Checklist

Project Number: 47:11652-G **Date:** 7/31/2021

Project Address: 5000 Polk Avenue
Alexandria, VA-22304

Work Area Location/Description: 1st Floor

	Work Area Location/Description	1st Floor
Decontamination Enclosure	Floors and Walls Clean	Satisfactory
	No Debris Present	Satisfactory
	Signage Intact	Satisfactory
	Shower Functioning	Satisfactory
	Used Suits/Towels in Waste Bag	Satisfactory
Interior of Work Area	All Critical Barriers Intact	Satisfactory
	Wet Methods In-Use	Satisfactory
	Prompt Clean-Up	Satisfactory
	Adequate Lighting	Satisfactory
	Respiratory Protection	Satisfactory
	Disposable Clothing Worn Properly	Satisfactory
	No Respirators Stored in Work Area	Satisfactory
	Negative Air Filtration In-Use	Satisfactory
	Pre-Filters Clean	Satisfactory
	Exhaust Properly Vented	Satisfactory
	No Eating/Drinking/Smoking in Work Area	Satisfactory
End of Shift Checklist	Negative Air Filtration Machines Operating	Satisfactory
	Debris Bagged/Sealed	Satisfactory
	Work Area Secured from Public Access	Satisfactory
Air Samples Collected	Number of PCM Air Samples	2
	Number of PCM Blank Samples	2
	Work Area Acceptable	Yes

Notes:

ECS Technician: Catey Bourne **Date:** 7/31/2021

ECS Mid-Atlantic, LLC

Final Clearance Checklist

Project Number: 47:11652-G **Date:** 7/31/2021

Project Address: 5000 Polk Avenue
Alexandria, VA-22304

Work Area Location/Description: 1st Floor

	Work Area Location/Description	1st Floor
Decontamination Enclosure	Floors and Walls Clean	Satisfactory
	No Debris Present	Satisfactory
	Signage Intact	Satisfactory
	Shower Functioning	Satisfactory
	Used Suits/Towels in Waste Bag	Satisfactory
Interior of Work Area	Floors	Satisfactory
	Walls	Satisfactory
	Ceiling	Satisfactory
	Windows	N/A
	Mechanical Equipment	N/A
	Ducts	N/A
	Pipes	N/A
	Lighting	N/A
	Other Surfaces	N/A
	Specified ACM Removed	Satisfactory
	Work Area Encapsulated	Satisfactory
	Negative Air Filtration Functioning	Satisfactory
	Waste Bags Removed	Satisfactory
	Final Clearance Air Sample Type	N/A
	Number of Samples Collected	0
	Sample Volume (liters)	0
	Work Area Acceptable	Yes

Notes: ECS will collect the final clearance TEM air samples on the next working shift.

ECS Technician: Catey Bourne **Date:** 7/31/2021

ECS Mid-Atlantic, LLC
14026 Thunderbolt Place, Suite 100
Chantilly, VA 20151-3232
7034718400
7038345527

LETTER OF TRANSMITTAL

August 5, 2021

Alexandria City Public Schools
1340 Braddock Place Suite 620
Alexandria, VA 22314

ATTN: John Finnigan

RE: **ACPS James Polk ES Summer Abatement**
ECS Job # **47:11652-G**

Permits:
Location: **5000 Polk Avenue**
Alexandria, VA 22304

X Field Reports **X** For your use **X** As requested

CC: Alexandria City Public Schools - John Contreras
Alexandria City Public Schools - Norman Wiebusch
Waco, Inc - Chris Lanham

ENCL: Field Report # 7 7/30/2021

Michael P. Hamill, CIH
Environmental Senior Project Manager

Catherine Bourne
Assistant Staff Project Manager

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4. *Incomplete or non-conforming work will be reported for future resolution.*
5. *The results of samples and/or specimens obtained or prepared for subsequent laboratory testing will be presented in separate reports/documents.*

ECS Mid-Atlantic, LLC
14026 Thunderbolt Place, Suite 100
Chantilly, VA 20151-3232
(703) 471-8400 [Phone]
(703) 834-5527 [Fax]

FIELD REPORT

Project No.	**47:11652-G**
Report No.	**7**
Day & Date	**Friday 7/30/2021**
Weather	**90 °/ Cloudy**
On-Site Time	**0.75**
Lab Time	**0.00**
Travel Time*	**0.00**
Total	**0.75**
Re Obs Time	**0.00**

Project	**ACPS James Polk ES Summer Abatement**
Location	**Alexandria, VA**
Client	**Alexandria City Public Schools**
Contractor	**None Listed**

Remarks

Trip Charges*	Tolls/Parking*	Mileage*	Times of	Arrival	Departure
Chargeable Items				**6:00A**	**6:30A**
				10:00A	**10:15A**

* Travel time and mileage will be billed in accordance with the contract.

Summary of Services Performed (field test data, locations, elevations & depths are estimates) & Individuals Contacted.

The undersigned arrived on-site, as requested, to perform air monitoring and observe asbestos abatement. The materials to be removed today are floor tile with associated black floor mastic in the lower level hallway, stairwell, and classrooms 34 – 39, and 41 and the upper level hallway and classrooms 23 - 29.

LOWER LEVEL HALLWAY, STAIRWELL, AND CLASSROOMS 34 – 39, and 41, WORK AREA MONITORING

At 6:15 am, a PCM air sample was started outside the work area at the decontamination unit entry on the lower floor. The sampling pump was calibrated using a rotameter to 2.0 liters per minute.

Abatement workers were observed removing floor tile with associated black floor mastic using scraper machines and hand scrapers.

Additional details about today's work activities, see ECS daily report #5.

UPPER LEVEL HALLWAY AND CLASSROOMS 23 – 29 WORK AREA MONITORING

At 6:20 am, a PCM air sample was started outside the work area at the decontamination unit entry on the upper floor. The sampling pump was calibrated using a rotameter to 2.0 liters per minute.

Abatement workers were observed removing floor tile with associated black floor mastic using scraper machines and hand scrapers.

Additional details about today's work activities, see ECS daily report #5.

By John A. O'Neil 1302

GENERAL

At 9:45 am, the undersigned departed jobsite. Mr. JP Nuique of ECS arrived to continue monitoring for the rest of the shift and complete the chain of custody. Additional details about today's work activities, see ECS daily report #5.

ECS Mid-Atlantic, LLC
14026 Thunderbolt Place, Suite 100
Chantilly, VA 20151-3232
7034718400
7038345527

LETTER OF TRANSMITTAL

August 4, 2021

Alexandria City Public Schools
1340 Braddock Place Suite 620
Alexandria, VA 22314

ATTN: John Finnigan

RE: **ACPS James Polk ES Summer Abatement**
ECS Job # **47:11652-G**

Permits:
Location: **5000 Polk Avenue**
Alexandria, VA 22304

X	Field Reports	**X**	For your use	**X**	As requested

CC: Alexandria City Public Schools - John Contreras
Alexandria City Public Schools - Norman Wiebusch
Waco, Inc - Chris Lanham

ENCL: Field Report # 8 8/1/2021

Michael P. Hamill, CIH
Environmental Senior Project Manager

Catherine Bourne
Assistant Staff Project Manager

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4. *Incomplete or non-conforming work will be reported for future resolution.*
5. *The results of samples and/or specimens obtained or prepared for subsequent laboratory testing will be presented in separate reports/documents.*

ECS Mid-Atlantic, LLC
14026 Thunderbolt Place, Suite 100
Chantilly, VA 20151-3232
(703) 471-8400 [Phone]
(703) 834-5527 [Fax]

FIELD REPORT

Project No.	**47:11652-G**
Report No.	**8**
Day & Date	**Sunday 8/1/2021**
Weather	**80 °/ Rain**
On-Site Time	**9.00**
Lab Time	**0.00**
Travel Time*	**0.00**
Total	**9.00**
Re Obs Time	**0.00**

Project	**ACPS James Polk ES Summer Abatement**
Location	**Alexandria, VA**
Client	**Alexandria City Public Schools**
Contractor	**None Listed**

Remarks

Trip Charges*	Tolls/Parking*	Mileage*	Time of	Arrival	Departure
Chargeable Items				**6:00A**	**3:00P**

* Travel time and mileage will be billed in accordance with the contract.

Summary of Services Performed (field test data, locations, elevations & depths are estimates) & Individuals Contacted.

The undersigned arrived on-site, as requested, to perform air monitoring and observe asbestos abatement. The materials to be removed today are black floor mastic in the upper level hallway and classrooms 23 - 29. Photographs and a sketch for today's regulated work area are attached to this report.

LOWER LEVEL HALLWAY, STAIRWELL, AND CLASSROOMS 34 – 39, and 41, FINAL CLEARANCE SAMPLING

Following the successful completion of the final clearance visual survey, the abatement contractor applied an encapsulant to surfaces within the regulated work area. After waiting overnight for the encapsulant to dry, 10 aggressive TEM air samples were started inside and outside the regulated work area. The sampling pumps were calibrated using a rotameter to 9.8 liters per minute. Two field blank samples were opened with in the work area for 30 seconds. One sealed blank was selected from the box of cassettes used for TEM air sampling that day.

Between 8:55AM and 9:07AM, the sampling pumps were checked using a rotameter after the air inside and outside the regulated work area was sampled using TEM cassettes for 125-135 minutes at 9.8 liters per minute. The sampling cassettes, including two field blanks and one sealed blank, were labeled with unique identification and transported to EMSL Analytical Laboratory, Inc. (EMSL) located in Beltsville, Maryland for analysis.

The EPA and Virginia maximum allowable airborne asbestos concentration is 70 structures per millimeter squared (s/mm2). In order to be deemed acceptable, the average of all samples analyzed must have asbestos concentrations less than 70 s/mm2. EMSL informed ECS that the analytical results of the TEM final clearance air samples collected from the lower level work area found the airborne asbestos fiber concentrations to be less than the maximum allowable limits set by applicable regulations which meets the project requirements. The client and abatement contractor supervisor were informed of the results. A copy of the laboratory report is attached.

By Jennifer Turner 1340

UPPER LEVEL HALLWAY AND CLASSROOMS 23 – 29 WORK AREA MONITORING

At 10:10 am, PCM air samples were started inside and outside the work area at the decontamination unit entry. The sampling pumps were calibrated using a rotameter to 2.0 liters per minute.

Abatement workers were observed removing black mastic with an electric handheld grinder. Water sprayers were utilized during the abatement activities.

At 2:45 pm, the sampling pumps were checked using a rotameter. The flow rate was 2.0 liters per minute. The PCM air samples were stopped and gathered from outside the work area.

GENERAL

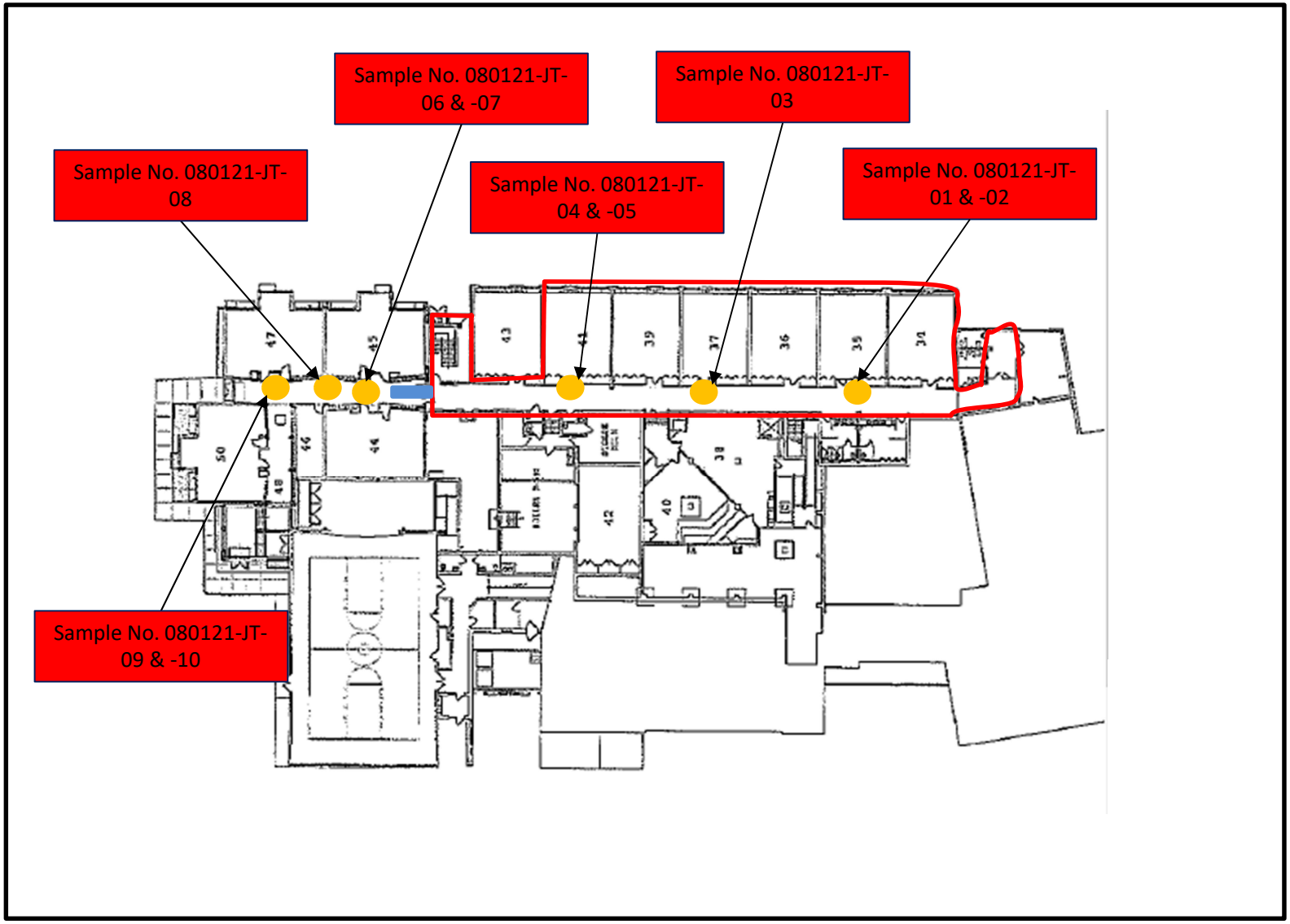
The regulated work area was surveyed to evaluate general compliance with applicable regulations. The Daily Work Area Survey Checklist was completed and is attached to this report.

ECS observed the abatement contractor placing the specified asbestos-containing materials in 6-mil polyethylene bags in barrels which were double-bagged and sealed in general accordance with applicable regulations. Waste bags/barrels were labeled and placed in a waste hauling container.

The undersigned prepared and analyzed the PCM air samples cassettes for total fiber concentration in general accordance with NIOSH Method 7400. Results were recorded on the PCM Chain of Custody which is attached.

The US EPA and Commonwealth of Virginia PCM re-occupancy criteria is less than or equal to 0.01 fibers per cubic centimeter of air (f/cc). OWA samples were reported below the level.

The sample results reflect the conditions where the air samples were collected at the time and dates of collection.



Legend

= Regulated Work Area

= Decontamination Unit

= TEM Air Sample Location

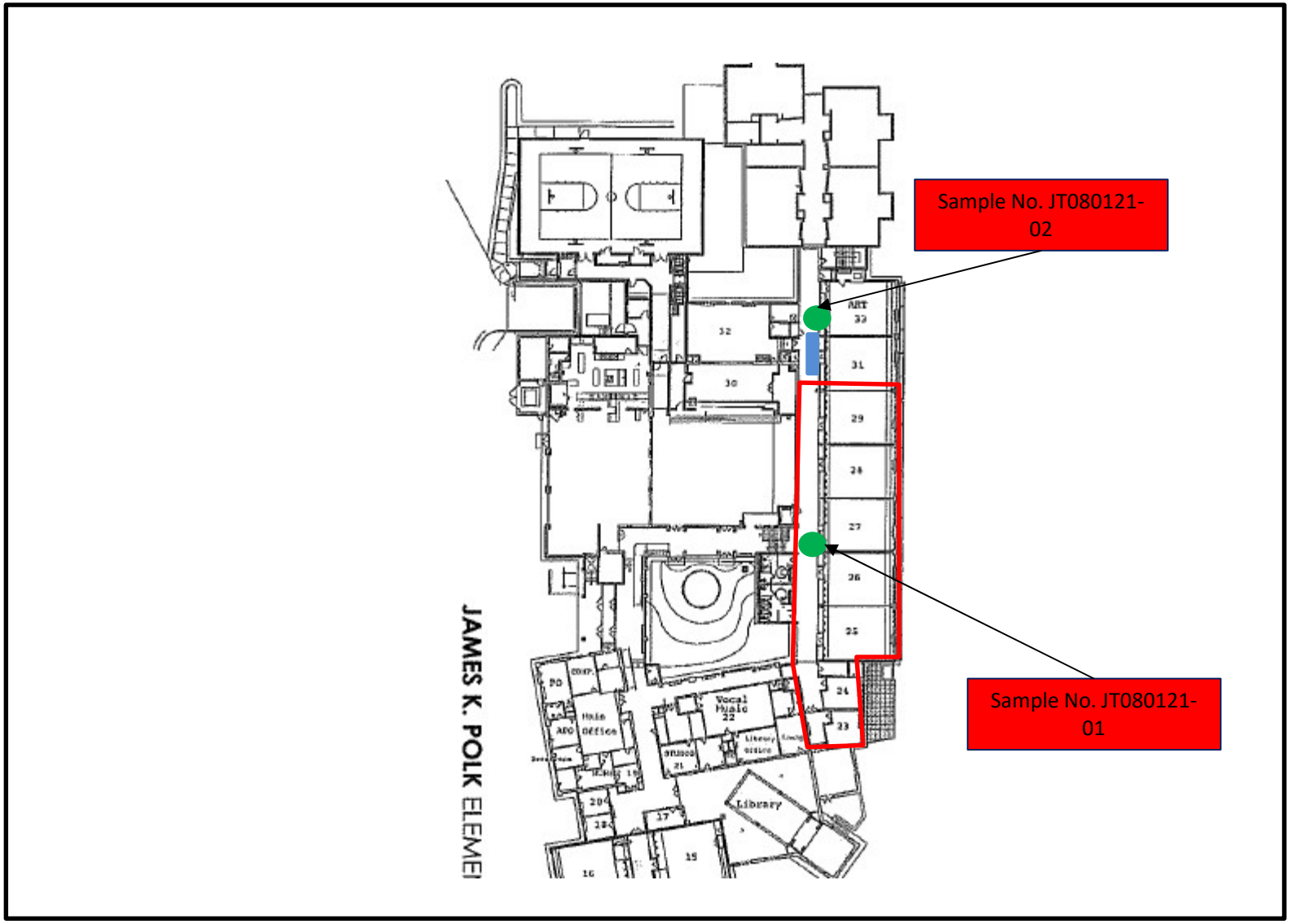
James Polk ES
5000 Polk Ave,
Alexandria, VA 22304

Work Area Sketch
Lower Level

SCALE NTS

Project No. 47:11652-G

Date 08/01/21



Legend

= Regulated Work Area

= Decontamination Unit

= PCM Air Sample Location

James Polk ES
5000 Polk Ave,
Alexandria, VA 22304

Work Area Sketch
Upper Level

SCALE NTS

Project No. 47:11652-G

Date 08/01/21

EMSL Analytical, Inc.

10768 Baltimore Avenue Beltsville, MD 20705

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

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

EMSL Order: 192107339
Customer ID: ECMA78
Customer PO:
Project ID:

Attention: Catey Bourne
ECS Mid-Atlantic, LLC
14026 Thunderbolt Place
Suite 100
Chantilly, VA 20151

Project: 47: 11652 - G - JAMES POLK FINALS

Phone: (703) 471-8400
Fax: (703) 471-8400
Received Date: 08/02/2021 09:17 AM
Analysis Date: 08/02/2021
Collected Date: 08/01/2021

Test Report: Asbestos Fiber Analysis by Transmission Electron Microscopy (TEM) Performed by EPA 40 CFR Part 763 Appendix A to Subpart E

Sample	Location	Volume (Liters)	Area Analyzed (mm^2)	Non Asb	Asbestos Type(s)	#Structures ≥0.5μ < 5μ	#Structures ≥5μ	Analytical Sensitivity (S/cc)	Asbestos Concentration (S/mm^2)	Asbestos Concentration (S/cc)
080121-JT-01	LOWER LEVEL - END OF HALL - IWA	1323.00	0.0650	0	None Detected	0	0	0.0045	<15.00	<0.0045
192107339-0001										
080121-JT-02	LOWER LEVEL - END OF HALL - IWA	1323.00	0.0650	0	None Detected	0	0	0.0045	<15.00	<0.0045
192107339-0002										
080121-JT-03	LOWER LEVEL - MIDDLE OF HALL - IWA	1303.40	0.0650	0	None Detected	0	0	0.0045	<15.00	<0.0045
192107339-0003										
080121-JT-04	LOWER LEVEL - BY DECON - IWA	1303.40	0.0650	0	None Detected	0	0	0.0045	<15.00	<0.0045
192107339-0004										
080121-JT-05	LOWER LEVEL - BY DECON - IWA	1323.00	0.0650	0	None Detected	0	0	0.0045	<15.00	<0.0045
192107339-0005										

Analyst(s)

Emily Baker (5)

Joe Centifonti, Laboratory Manager
or other approved signatory

EMSL maintains liability limited to cost of analysis. Interpretation and use of test results are the responsibility of the client. This report relates only to the samples reported above, and may not be reproduced, except in full, without written approval by EMSL. EMSL bears no responsibility for sample collection activities or analytical method limitations. The report reflects the samples as received. Results are generated from the field sampling data (sampling volumes and areas, locations, etc.) provided by the client on the Chain of Custody. Samples are within quality control criteria and met method specifications unless otherwise noted. This report must not be used to claim product certification, approval, or endorsement by NVLAP, NIST, or any agency of the federal government. Results reported in structures/cm3 are not covered by the laboratory's NVLAP accreditation. Measurement of uncertainty available upon request.

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

Initial report from: 08/02/2021 16:58 PM

OrderID: 192107339

EMSL ANALYTICAL, INC.
LABORATORY • PRODUCTS • TRAINING

EMSL Order Number *(lab use only)*: 192107339

PHONE:
FAX:

Company Name: ECS Mid-Atlantic		EMSL Customer ID:	
Street: 14026 Thunderbolt Pl Suite 100		City: Chantilly	State or Province: VA
Zip/Postal Code: 20151	Country: US	Telephone #: 703 471-8400	Fax #:
Report To (Name): Cutey Bourne		Please Provide Results via: ☐ Fax ☒ Email	
email Address: cbourne@ecslimited.com		Purchase Order Number:	
Client Project ID: 47:11652-G - James Polk Finals		EMSL Project ID *(internal use only)*:	
State or Province Collected: VA		CT only ☐ Commercial/Taxable ☐ Residential/Tax Exempt	

EMSL-Bill to: ☒ Same ☐ Different - *If bill to is different note instructions in comment. Third party billing requires written authorization from third party*

Turnaround Time (TAT) Options Please Check

☐ 3 Hr[1] | ☐ 4-4.5Hr[1] AHERA Only | ☐ 6 Hr[1] | ☒ 24 Hr | ☐ 32 Hr[2] | ☐ 48 Hr | ☐ 72 Hr | ☐ 96 Hr | ☐ 1 Week | ☐ 2 Week

[1]*Premium Service Charge applies for 3 Hour TEM AHERA or EPA Level II TAT – you will be asked to sign an authorization form. TEM Air 3-6 Hour, please call ahead to schedule*
[2] *32 Hour TAT available for select tests only; samples must be submitted by 11:30 am.*

PCM - Air
- ☐ NIOSH 7400
- ☐ w/ OSHA 8hr. TWA

PLM - Bulk (reporting limit)
- ☐ PLM EPA 600/R-93/116 (<1%)
- ☐ PLM EPA NOB (<1%)

Point Count
- ☐ 400 (<0.25%) ☐ 1000 (<0.1%)

Point Count w/Gravimetric
- ☐ 400 (<0.25%) ☐ 1000 (<0.1%)
- ☐ NYS 198.1 (friable - NY)
- ☐ NYS 198.6 NOB (non-friable-NY)
- ☐ NYS 198.8 SOF-V
- ☐ NIOSH 9002 (<1%)

TEM – Air[1]
- ☒ AHERA 40 CFR, Part 763
- ☐ NIOSH 7402
- ☐ EPA Level II
- ☐ ISO 10312

TEM - Bulk
- ☐ TEM EPA NOB
- ☐ NYS NOB 198.4 (non-friable-NY)
- ☐ TEM EPA 600/R-93/116 with milling prep (<0.1%)*

TEM – Water: EPA 100.2
- Fibers >10µm ☐ Waste ☐ Drinking
- All Fiber Sizes ☐ Waste ☐ Drinking

TEM- Settled Dust
- ☐ Microvac - ASTM D 5755
- ☐ Wipe - ASTM D6480
- ☐ Carpet Sonication (EPA 600/J-93/167)

Soil – Rock – Vermiculite (reporting limit)
- ☐ PLM EPA 600/R-93/116 with milling prep (<0.25%)
- ☐ TEM EPA 600/R-93/116 with milling prep (<0.1%)*
- ☐ TEM Qualitative via Filtration Prep
- ☐ TEM Qualitative via Drop Mount Prep
- ☐ Cincinnati Method EPA 600/R-04/004 – PLM/TEM

Lower reporting limits avaialble on request

Other test (please specify):

☐ Stop At First Positive *(clearly identify homogenous areas below)*

Filter Pore Size (Air Samples): ☐ 0.8µm ☒ 0.45µm

Sampler's Name: Jennifer Turner

Sampler's Signature:

Sample #	Sample Description/Location	Volume, Area or Homogenous Area	Date/Time Sampled
08012-JT-01	lower level end of hall IWA	1,323 L	8-01-21 9:07AM
080121-JT-02	lower level end of hall IWA	1,323 L	
080121-JT-03	lower level middle of hall IWA	1,303.4 L	
080121-JT-04	lower level by decon IWA	1,303.4 L	
080121-JT-05	lower level by decon IWA	1,323 L	

Client Sample #(s): 080121-JT-01 - 080121-JT-13 Total # of Samples: 13

Relinquished by (Client): Date: 8-2-21 Time: 9:15

Received by (Lab): Moses Ayee DS Date: Time:

Comments/Special Instructions:
Can you Analyze samples 080121-JT-01 to 080121-JT-05
If they fail please call Cutey Bourne at (703) 864-0312 before analyzing other samples.

'21 AUG 2 AM 9:17

EMSL Analytical, Inc.'s (DBA: LA Testing) Laboratory Terms and Conditions are incorporated into this chain of custody by reference in their entirety. Submission of samples to EMSL Analytical Inc. constitutes acceptance and acknowledgment of all terms and conditions.

OrderID: 192107339

EMSL ANALYTICAL, INC.
LABORATORY • PRODUCTS • TRAINING

EMSL Order Number (*Lab Use Only*): 192107339

PHONE:
FAX:

Additional Pages of the Chain of Custody are only necessary if needed for additional sample information

Sample #	Sample Description	Volume/Area (Air) HA # (Bulk)	Date/Time Sampled
080121-JT-06	OWA by Decon	1,323 L	080121 0:00Am
080121-JT-07	OWA by Decon	1.225 L	↓
080121-JT-08	OWA by Entrance	1.225 L	
080121-JT-09	OWA by Entrance	1,225L	
080121-JT-10	OWA in Hallway	1,225 L	
080121-JT-11	Field Blank #1	—	
080121-JT-12	Field Blank #2	—	
080121-JT-13	Lab Blank	—	—

*Comments/Special Instructions:

Sample Instructions

EMSL Analytical, Inc.'s (DBA: LA Testing) Laboratory Terms and Conditions are incorporated into this chain of custody by reference in their entirety. Submission of samples to EMSL Analytical Inc. constitutes acceptance and acknowledgment of all terms and conditions.

Attachments



View of black mastic along the edges

Figure 1



View of black mastic along edges

Figure 2

Attachments



Handheld grinder used to remove black mastic

Figure 3

ECS Mid-Atlantic, LLC

PCM Air Sample Field Data Sheet

WORK AREA SAMPLES

Project Number: 47:11652-G
Project Address: 5000 Polk Avenue
Alexandria, VA-22304

Date: 8/1/2021
Page: 1 of 1

Sample #	Location/Description	Start	Stop	Start Flow (lpm)	Stop Flow (lpm)	Average Flow (lpm)	Total Time (lpm)	Volume (l)	Fibers (#)	Field (#)	Result (f/cc)
080121-FB1	Field Blank 1	N/A	N/A	N/A	N/A	N/A	N/A	N/A	0.0	100	NFD
080121-FB2	Field Blank 2	N/A	N/A	N/A	N/A	N/A	N/A	N/A	0.0	100	NFD
JT080121-01	Upper Floor Work Area OWA by Decon	10:10 AM	2:45 PM	2.0	2.0	2.0	275	550.0	0.5	100	0.000
JT080121-02	Upper Floor Work Area IWA by Decon	10:10 AM	2:45 PM	2.0	2.0	2.0	275	550.0	4.5	100	0.004

Notes: NFD = None Fibers Detected OWA = Outside Work Area IWA = Inside Work Area

Notes: The US EPA and Commonwealth of Virginia PCM re-occupancy criteria is less than or equal to 0.01 fibers per cubic centimeter of air (f/cc). OWA samples were reported below the level.

ECS Technician: Jennifer Turner **Date:** 8/1/2021

ECS Mid-Atlantic, LLC

Daily Work Area Checklist

Project Number: 47:11652-G **Date:** 8/1/2021

Project Address: 5000 Polk Avenue
Alexandria, VA-22304

Work Area Location/Description: Upper Floor Work Area

	Work Area Location/Description	Upper Floor Work Area
Decontamination Enclosure	Floors and Walls Clean	Satisfactory
	No Debris Present	Satisfactory
	Signage Intact	Satisfactory
	Shower Functioning	Satisfactory
	Used Suits/Towels in Waste Bag	Satisfactory
Interior of Work Area	All Critical Barriers Intact	Satisfactory
	Wet Methods In-Use	Satisfactory
	Prompt Clean-Up	Satisfactory
	Adequate Lighting	Satisfactory
	Respiratory Protection	Satisfactory
	Disposable Clothing Worn Properly	Satisfactory
	No Respirators Stored in Work Area	Satisfactory
	Negative Air Filtration In-Use	Satisfactory
	Pre-Filters Clean	Satisfactory
	Exhaust Properly Vented	Satisfactory
	No Eating/Drinking/Smoking in Work Area	Satisfactory
End of Shift Checklist	Negative Air Filtration Machines Operating	Satisfactory
	Debris Bagged/Sealed	Satisfactory
	Work Area Secured from Public Access	Satisfactory
Air Samples Collected	Number of PCM Air Samples	2
	Number of PCM Blank Samples	2
	Work Area Acceptable	Yes

Notes:

ECS Technician: Catey Bourne **Date:** 8/1/2021

ECS Mid-Atlantic, LLC
14026 Thunderbolt Place, Suite 100
Chantilly, VA 20151-3232
7034718400
7038345527

LETTER OF TRANSMITTAL

August 4, 2021

Alexandria City Public Schools
1340 Braddock Place Suite 620
Alexandria, VA 22314

ATTN: John Finnigan

RE: **ACPS James Polk ES Summer Abatement**
ECS Job # **47:11652-G**

Permits:
Location: **5000 Polk Avenue**
Alexandria, VA 22304

X Field Reports **X** For your use **X** As requested

CC: Alexandria City Public Schools - John Contreras
Alexandria City Public Schools - Norman Wiebusch
Waco, Inc - Chris Lanham

ENCL: Field Report # 9 8/2/2021

Michael P. Hamill, CIH
Environmental Senior Project Manager

Catherine Bourne
Assistant Staff Project Manager

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4. *Incomplete or non-conforming work will be reported for future resolution.*
5. *The results of samples and/or specimens obtained or prepared for subsequent laboratory testing will be presented in separate reports/documents.*

ECS Mid-Atlantic, LLC
14026 Thunderbolt Place, Suite 100
Chantilly, VA 20151-3232
(703) 471-8400 [Phone]
(703) 834-5527 [Fax]

FIELD REPORT

Project	**ACPS James Polk ES Summer Abatement**
Location	**Alexandria, VA**
Client	**Alexandria City Public Schools**
Contractor	**None Listed**

Project No.	**47:11652-G**
Report No.	**9**
Day & Date	**Monday 8/2/2021**
Weather	**80 °/ Sunny**
On-Site Time	**10.50**
Lab Time	**0.00**
Travel Time*	**0.00**
Total	**10.50**
Re Obs Time	**0.00**

Remarks

Trip Charges*	Tolls/Parking*	Mileage*	Time of	Arrival	Departure
Chargeable Items				**6:00A**	**4:30P**

* Travel time and mileage will be billed in accordance with the contract.

Summary of Services Performed (field test data, locations, elevations & depths are estimates) & Individuals Contacted.

The undersigned arrived on-site, as requested, to perform air monitoring and observe asbestos abatement. The material to be removed today is black floor mastic from the upper level hallway and classrooms 23 - 29

Prior to starting the removal of the specified material the abatement contractor employees were asked to present their licenses for review. No workers were found to be without valid licenses.

UPPER LEVEL WORK AREA

Between 6:42 and 6:55 am, PCM air samples were started inside and outside the work area. The sampling pumps were calibrated using a rotameter to 2.5 liters per minute.

The abatement contractor employees were observed using hand grinders with HEPA vacuum attachments to remove the black floor mastic along the walls and corners of the work area floor.

Between 11:25 and 11:34 pm, the sampling pumps were checked using a rotameter. The flow rate was 2.5 liters per minute. The PCM air samples were stopped and gathered from inside and outside the work area.

Between 11:25 and 11:34 am, PCM air samples were started inside and outside the work area. The sampling pumps were calibrated using a rotameter to 2.5 liters per minute.

Between 4:00 and 4:11 pm, the sampling pumps were checked using a rotameter. The flow rate was 2.5 liters per minute. The PCM air samples were stopped and gathered from inside and outside the work area.

GENERAL

By Catey Bourne 1302

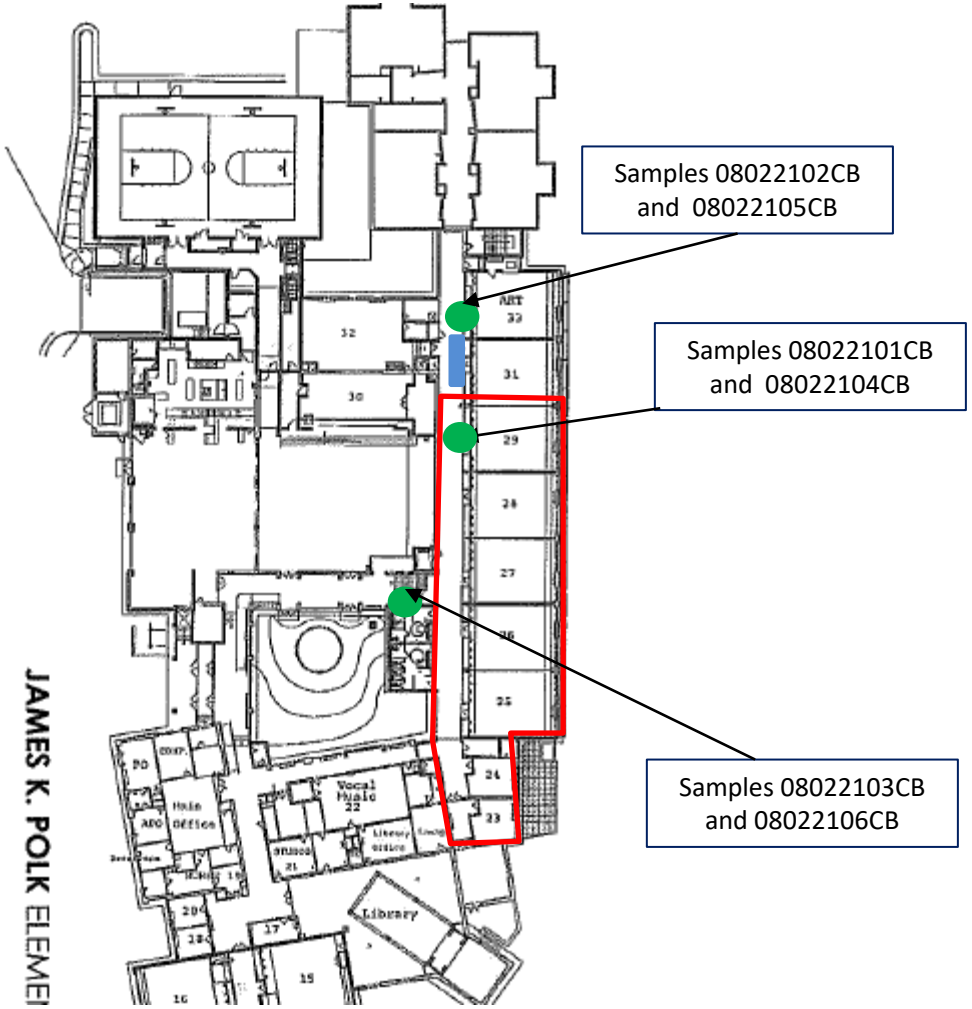
The regulated work area was surveyed to evaluate general compliance with applicable regulations. The Daily Work Area Survey Checklist was completed and is attached to this report.

ECS observed the abatement contractor placing the specified asbestos-containing materials in 6-mil polyethylene bags and approved waste drums which were sealed in general accordance with the applicable regulations. Waste bags and drums were temporarily stored within the work area.

The undersigned prepared and analyzed the PCM air sample cassettes for total fiber concentration in general accordance with NIOSH Method 7400. Results were recorded on the PCM Chain of Custody which is attached.

The US EPA and Commonwealth of Virginia re-occupancy limit is 0.01 fibers per cubic centimeter of air (f/cc). The analytical results from the PCM samples inside and outside the work area were reported to be less than 0.01 f/cc.

The sample results reflect the conditions where the air samples were collected at the time and dates of collection.



Legend

= Regulated Work Area

= Decontamination Unit

= Sample Location

Transmittal Page 4/7

James Polk ES
5000 Polk Ave,
Alexandria, VA 22304

Work Area Sketch
Upper Level

SCALE NTS

Project No. 47:11652-G

Date 08/02/21

Attachments



View of abatement activities

Figure 1



View of upper level work area

Figure 2

ECS Mid-Atlantic, LLC

Daily Work Area Checklist

Project Number: 47:11652-G **Date:** 8/4/2021

Project Address: 5000 Polk Avenue
Alexandria, VA-22304

Work Area Location/Description: Upper level hallway and classrooms 23 - 29

	Work Area Location/Description	Upper level hallway and
Decontamination Enclosure	Floors and Walls Clean	Satisfactory
	No Debris Present	Satisfactory
	Signage Intact	Satisfactory
	Shower Functioning	Satisfactory
	Used Suits/Towels in Waste Bag	Satisfactory
Interior of Work Area	All Critical Barriers Intact	Satisfactory
	Wet Methods In-Use	Satisfactory
	Prompt Clean-Up	Satisfactory
	Adequate Lighting	Satisfactory
	Respiratory Protection	Satisfactory
	Disposable Clothing Worn Properly	Satisfactory
	No Respirators Stored in Work Area	Satisfactory
	Negative Air Filtration In-Use	Satisfactory
	Pre-Filters Clean	Satisfactory
	Exhaust Properly Vented	Satisfactory
	No Eating/Drinking/Smoking in Work Area	Satisfactory
End of Shift Checklist	Negative Air Filtration Machines Operating	Satisfactory
	Debris Bagged/Sealed	Satisfactory
	Work Area Secured from Public Access	Satisfactory
Air Samples Collected	Number of PCM Air Samples	6
	Number of PCM Blank Samples	2
	Work Area Acceptable	Yes

Notes:

ECS Technician: Catey Bourne **Date:** 8/4/2021

ECS Mid-Atlantic, LLC

PCM Air Sample Field Data Sheet

WORK AREA SAMPLES

Project Number: 47:11652-G
Project Address: 5000 Polk Avenue
Alexandria, VA-22304

Date: 8/2/2021

Sample #	Location/Description	Start	Stop	Start Flow (lpm)	Stop Flow (lpm)	Average Flow (lpm)	Total Time (lpm)	Volume (l)	Fibers (#)	Field (#)	Result (f/cc)
08022101CB	IWA- Upper Level Work Area	6:42 AM	11:25 AM	2.5	2.5	2.5	283	707.5	4.0	100	0.003
08022102CB	OWA- Upper Level Work Area - Outside Decontamination Unit	6:42 AM	11:25 AM	2.5	2.5	2.5	283	707.5	4.0	100	0.003
08022103CB	OWA- Upper Level Work Area - Critical Barrier by the Multipurpose Room	6:55 AM	11:34 AM	2.5	2.5	2.5	279	697.5	0.0	100	0.000
08022104CB	IWA- Upper Level Work Area	11:25 AM	4:11 PM	2.5	2.5	2.5	286	715.0	6.0	100	0.004
08022105CB	OWA- Upper Level Work Area - Outside Decontamination Unit	11:25 AM	4:11 PM	2.5	2.5	2.5	286	715.0	4.0	100	0.003
08022106CB	OWA- Upper Level Work Area - Critical Barrier by the Multipurpose Room	11:34 AM	4:00 PM	2.5	2.5	2.5	266	665.0	2.0	100	0.001
08022107CB	Field Blank	N/A	N/A	N/A	N/A	N/A	N/A	N/A	0.0	100	NFD
08022108CB	Field Blank	N/A	N/A	N/A	N/A	N/A	N/A	N/A	0.0	100	NFD

Notes: NFD = None Fibers Detected OWA = Outside Work Area IWA = Inside Work Area

Notes: The US EPA and Commonwealth of Virginia re-occupancy limit is 0.01 fibers per cubic centimeter of air (f/cc). The analytical results from the PCM samples inside and outside the work area were reported to be less than 0.01 f/cc.

ECS Technician: Catey Bourne **Date:** 8/2/2021

ECS Mid-Atlantic, LLC
14026 Thunderbolt Place, Suite 100
Chantilly, VA 20151-3232
7034718400
7038345527

LETTER OF TRANSMITTAL

August 4, 2021

Alexandria City Public Schools
1340 Braddock Place Suite 620
Alexandria, VA 22314

ATTN: John Finnigan

RE: **ACPS James Polk ES Summer Abatement**
ECS Job # **47:11652-G**

Permits:
Location: **5000 Polk Avenue**
Alexandria, VA 22304

X Field Reports **X** For your use **X** As requested

CC: Alexandria City Public Schools - John Contreras
Alexandria City Public Schools - Norman Wiebusch
Waco, Inc - Chris Lanham

ENCL: Field Report # 10 8/3/2021

Michael P. Hamill, CIH
Environmental Senior Project Manager

Catherine Bourne
Assistant Staff Project Manager

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5. *The results of samples and/or specimens obtained or prepared for subsequent laboratory testing will be presented in separate reports/documents.*

ECS Mid-Atlantic, LLC
14026 Thunderbolt Place, Suite 100
Chantilly, VA 20151-3232
(703) 471-8400 [Phone]
(703) 834-5527 [Fax]

FIELD REPORT

Project	**ACPS James Polk ES Summer Abatement**
Location	**Alexandria, VA**
Client	**Alexandria City Public Schools**
Contractor	**None Listed**

Project No.	**47:11652-G**
Report No.	**10**
Day & Date	**Tuesday 8/3/2021**
Weather	**75 °/ Cloudy**
On-Site Time	**3.50**
Lab Time	**0.00**
Travel Time*	**0.00**
Total	**3.50**
Re Obs Time	**0.00**

Remarks

Trip Charges*	Tolls/Parking*	Mileage*	Times of	Arrival	Departure
Chargeable Items				**7:00A**	**10:00A**
				4:00P	**4:30P**

* Travel time and mileage will be billed in accordance with the contract.

Summary of Services Performed (field test data, locations, elevations & depths are estimates) & Individuals Contacted.

The undersigned arrived on-site, as requested, to perform air monitoring and observe asbestos abatement. The material to be removed today is black floor mastic from the upper level hallway and classrooms 23 - 29

UPPER LEVEL WORK AREA

Between 7:15 and 7:20 am, PCM air samples were started inside and outside the work area. The sampling pumps were calibrated using a rotameter to 2.0 liters per minute.

The abatement contractor employees were observed using hand grinders with HEPA vacuum attachments to remove the black floor mastic along the walls and corners of the work area floor.

Between 4:00 and 4:02 pm, the sampling pumps were checked using a rotameter. The flow rate was 2.0 liters per minute. The PCM air samples were stopped and gathered from inside and outside the work area.

GENERAL

The regulated work area was surveyed to evaluate general compliance with applicable regulations. The Daily Work Area Survey Checklist was completed and is attached to this report.

ECS observed the abatement contractor placing the specified asbestos-containing materials in 6-mil polyethylene bags and approved waste drums which were sealed in general accordance with the applicable regulations. Waste bags and drums were temporarily stored within the work area.

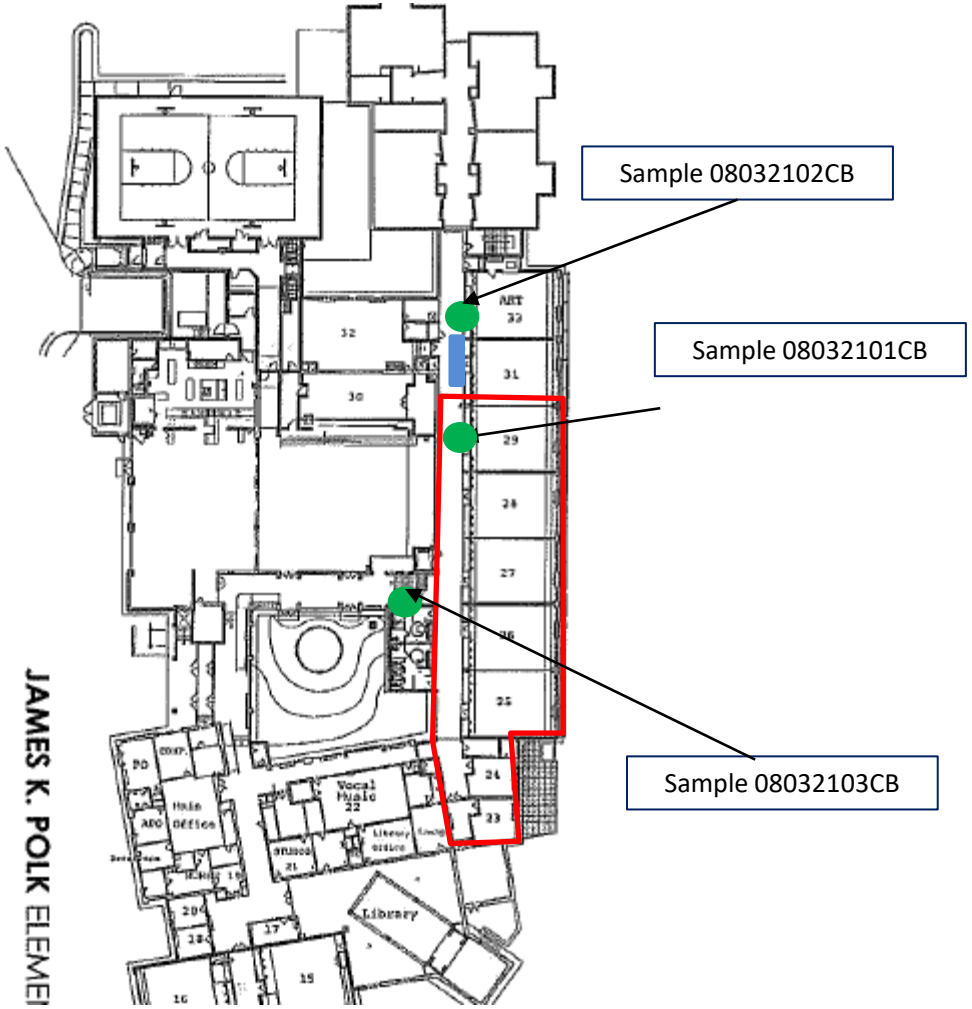
The undersigned prepared and analyzed the PCM air sample cassettes for total fiber concentration in general accordance with NIOSH Method 7400. Results were recorded on the PCM Chain of Custody

By Catey Bourne 1302

which is attached.

The US EPA and Commonwealth of Virginia re-occupancy limit is 0.01 fibers per cubic centimeter of air (f/cc). The analytical results from the PCM samples outside the work area were reported to be less than 0.01 f/cc.

The sample results reflect the conditions where the air samples were collected at the time and dates of collection.



Legend

= Regulated Work Area

= Decontamination Unit

= Sample Location

Transmittal Page 4/8

James Polk ES
5000 Polk Ave,
Alexandria, VA 22304

Work Area Sketch
Upper Level

SCALE NTS

Project No. 47:11652-G

Date 08/03/21

Attachments



View of upper level work area

Figure 1



View of upper level work area

Figure 2

Attachments



View of upper level work area

Figure 3

ECS Mid-Atlantic, LLC

Daily Work Area Checklist

Project Number: 47:11652-G **Date:** 8/4/2021

Project Address: 5000 Polk Avenue
Alexandria, VA-22304

Work Area Location/Description: Upper Level Work Area

	Work Area Location/Description	Upper Level Work Area
Decontamination Enclosure	Floors and Walls Clean	Satisfactory
	No Debris Present	Satisfactory
	Signage Intact	Satisfactory
	Shower Functioning	Satisfactory
	Used Suits/Towels in Waste Bag	Satisfactory
Interior of Work Area	All Critical Barriers Intact	Satisfactory
	Wet Methods In-Use	Satisfactory
	Prompt Clean-Up	Satisfactory
	Adequate Lighting	Satisfactory
	Respiratory Protection	Satisfactory
	Disposable Clothing Worn Properly	Satisfactory
	No Respirators Stored in Work Area	Satisfactory
	Negative Air Filtration In-Use	Satisfactory
	Pre-Filters Clean	Satisfactory
	Exhaust Properly Vented	Satisfactory
	No Eating/Drinking/Smoking in Work Area	Satisfactory
End of Shift Checklist	Negative Air Filtration Machines Operating	Satisfactory
	Debris Bagged/Sealed	Satisfactory
	Work Area Secured from Public Access	Satisfactory
Air Samples Collected	Number of PCM Air Samples	3
	Number of PCM Blank Samples	2
	Work Area Acceptable	Yes

Notes:

ECS Technician: Catey Bourne **Date:** 8/4/2021

ECS Mid-Atlantic, LLC

PCM Air Sample Field Data Sheet

WORK AREA SAMPLES

Project Number: 47:11652-G
Project Address: 5000 Polk Avenue
Alexandria, VA-22304

Date: 8/3/2021
Page: 1 of 1

Sample #	Location/Description	Start	Stop	Start Flow (lpm)	Stop Flow (lpm)	Average Flow (lpm)	Total Time (lpm)	Volume (l)	Fibers (#)	Field (#)	Result (f/cc)
08032101CB	IWA- Upper Level Work Area	7:15 AM	4:00 PM	2.0	2.0	2.0	525	1050.0	N/A	N/A	
08032102CB	OWA- Upper Level work area	7:15 AM	4:00 PM	2.0	2.0	2.0	525	1050.0	5.0	100	0.002
08032103CB	OWA- Upper level work area	7:20 AM	4:02 PM	2.0	2.0	2.0	522	1044.0	3.0	100	0.001
08032104CB	Field Blank	N/A	N/A	N/A	N/A	N/A	N/A	N/A	0.0	100	NFD
08032105CB	Field Blank	N/A	N/A	N/A	N/A	N/A	N/A	N/A	0.0	100	NFD

Notes: NFD = None Fibers Detected OWA = Outside Work Area IWA = Inside Work Area

Notes: Sample 08032101CB was overloaded and could not be analyzed. Abatement contractor was notified and advised to use more water during abatement actitivies.

ECS Technician: Catey Bourne **Date:** 8/3/2021

ECS Mid-Atlantic, LLC
14026 Thunderbolt Place, Suite 100
Chantilly, VA 20151-3232
7034718400
7038345527

LETTER OF TRANSMITTAL

August 5, 2021

Alexandria City Public Schools
1340 Braddock Place Suite 620
Alexandria, VA 22314

ATTN: John Finnigan

RE: **ACPS James Polk ES Summer Abatement**
ECS Job # **47:11652-G**

Permits:
Location: **5000 Polk Avenue**
Alexandria, VA 22304

X	Field Reports	**X**	For your use	**X**	As requested

CC: Alexandria City Public Schools - John Contreras
Alexandria City Public Schools - Norman Wiebusch
Waco, Inc - Chris Lanham

ENCL: Field Report # 11 8/4/2021

Michael P. Hamill, CIH
Environmental Senior Project Manager

Catherine Bourne
Assistant Staff Project Manager

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ECS Mid-Atlantic, LLC
14026 Thunderbolt Place, Suite 100
Chantilly, VA 20151-3232
(703) 471-8400 [Phone]
(703) 834-5527 [Fax]

FIELD REPORT

Project	**ACPS James Polk ES Summer Abatement**
Location	**Alexandria, VA**
Client	**Alexandria City Public Schools**
Contractor	**None Listed**

Project No.	**47:11652-G**
Report No.	**11**
Day & Date	**Wednesday 8/4/2021**
Weather	**81 °/ Sunny**
On-Site Time	**6.75**
Lab Time	**0.00**
Travel Time*	**0.00**
Total	**6.75**
Re Obs Time	**0.00**

Remarks

Trip Charges*	Tolls/Parking*	Mileage*	Times of	Arrival	Departure
Chargeable Items				**7:00A**	**9:00A**
				10:30A	**1:30P**
				2:45P	**4:30P**

* Travel time and mileage will be billed in accordance with the contract.

Summary of Services Performed (field test data, locations, elevations & depths are estimates) & Individuals Contacted.

The undersigned arrived on-site, as requested, to perform air monitoring and observe asbestos abatement. The material to be removed today is black floor mastic from the upper level hallway and classrooms 23 - 29.

UPPER LEVEL WORK AREA

Between 7:09 and 7:14 am, PCM air samples were started inside and outside the work area. The sampling pumps were calibrated using a rotameter to 2.0 liters per minute.

The abatement contractor employees were observed using hand grinders with HEPA vacuum attachments to remove the black floor mastic along the walls and corners of the work area floor.

Between 3:30 and 3:35 pm, the sampling pumps were checked using a rotameter. The flow rate was 2.0 liters per minute. The PCM air samples were stopped and gathered from inside and outside the work area.

GENERAL

The regulated work area was surveyed to evaluate general compliance with applicable regulations. The Daily Work Area Survey Checklist was completed and is attached to this report.

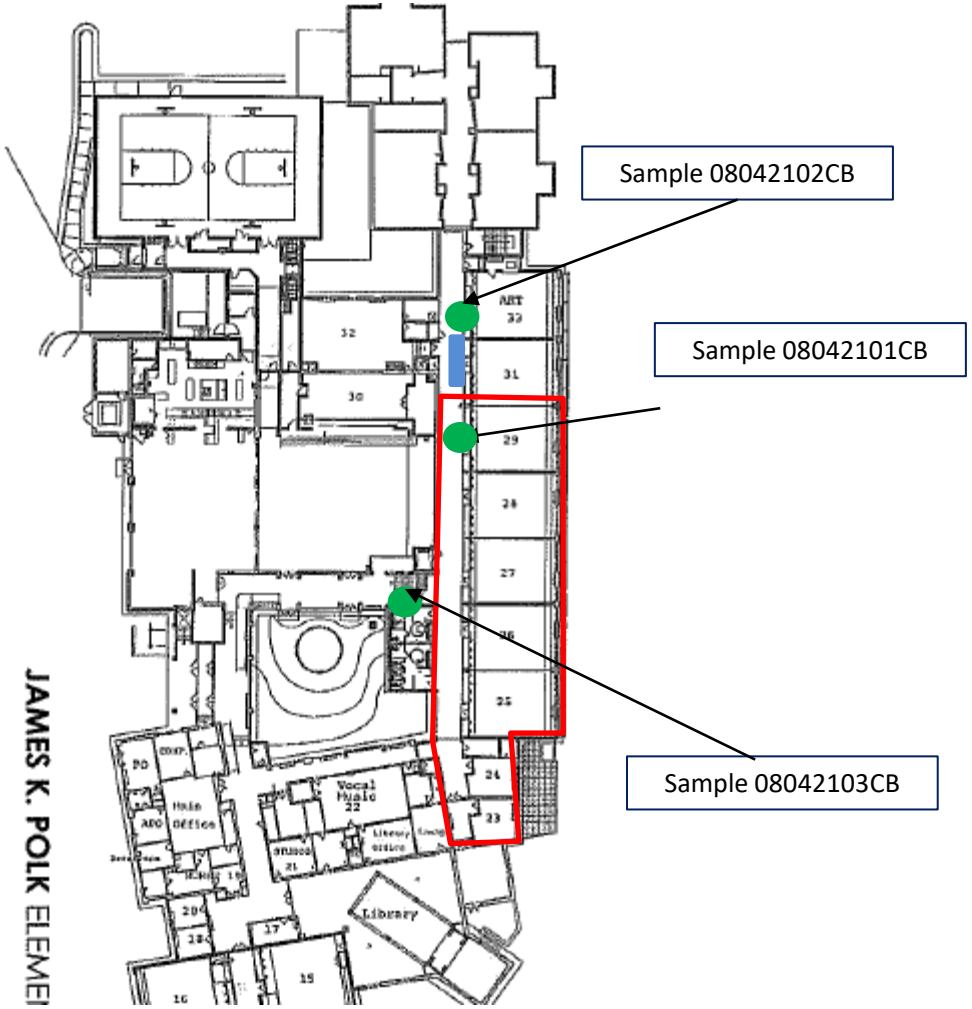
ECS observed the abatement contractor placing the specified asbestos-containing materials in 6-mil polyethylene bags and approved waste drums which were sealed in general accordance with the applicable regulations. Waste bags and drums were placed in a temporary hauling container.

The undersigned prepared and analyzed the PCM air sample cassettes for total fiber concentration in

general accordance with NIOSH Method 7400. Results were recorded on the PCM Chain of Custody which is attached.

The US EPA and Commonwealth of Virginia re-occupancy limit is 0.01 fibers per cubic centimeter of air (f/cc). The analytical results from the PCM samples outside the work area were reported to be less than 0.01 f/cc.

The sample results reflect the conditions where the air samples were collected at the time and dates of collection.



Legend

= Regulated Work Area

= Decontamination Unit

= Sample Location

Transmittal Page 4/6

James Polk Elementary School
5000 Polk Ave
Alexandria, VA 22304

Work Area Sketch
Upper Level

SCALE NTS

Project No. 47:11652-G

Date 08/04/21

ECS Mid-Atlantic, LLC

Daily Work Area Checklist

Project Number: 47:11652-G **Date:** 8/4/2021

Project Address: 5000 Polk Avenue
Alexandria, VA-22304

Work Area Location/Description: Upper level hallway and classrooms 23 - 29

	Work Area Location/Description	Upper level hallway and
Decontamination Enclosure	Floors and Walls Clean	Satisfactory
	No Debris Present	Satisfactory
	Signage Intact	Satisfactory
	Shower Functioning	Satisfactory
	Used Suits/Towels in Waste Bag	Satisfactory
Interior of Work Area	All Critical Barriers Intact	Satisfactory
	Wet Methods In-Use	Satisfactory
	Prompt Clean-Up	Satisfactory
	Adequate Lighting	Satisfactory
	Respiratory Protection	Satisfactory
	Disposable Clothing Worn Properly	Satisfactory
	No Respirators Stored in Work Area	Satisfactory
	Negative Air Filtration In-Use	Satisfactory
	Pre-Filters Clean	Satisfactory
	Exhaust Properly Vented	Satisfactory
	No Eating/Drinking/Smoking in Work Area	Satisfactory
End of Shift Checklist	Negative Air Filtration Machines Operating	Satisfactory
	Debris Bagged/Sealed	Satisfactory
	Work Area Secured from Public Access	Satisfactory
Air Samples Collected	Number of PCM Air Samples	3
	Number of PCM Blank Samples	2
	Work Area Acceptable	Yes

Notes:

ECS Technician: Catey Bourne **Date:** 8/4/2021

ECS Mid-Atlantic, LLC

PCM Air Sample Field Data Sheet

WORK AREA SAMPLES

Project Number: 47:11652-G
Project Address: 5000 Polk Avenue
Alexandria, VA-22304

Date: 8/4/2021
Page: 1 of 1

Sample #	Location/Description	Start	Stop	Start Flow (lpm)	Stop Flow (lpm)	Average Flow (lpm)	Total Time (lpm)	Volume (l)	Fibers (#)	Field (#)	Result (f/cc)
08042101CB	IWA- Upper Level Work Area	7:09 AM	3:30 PM	2.0	2.0	2.0	501	1002.0	0.0	0	NaN
08042102CB	OWA- Upper Level Work Area	7:09 AM	3:30 PM	2.0	2.0	2.0	501	1002.0	1.0	100	0.000
08042103CB	OWA - Upper Level Work Area	7:14 AM	3:35 PM	2.0	2.0	2.0	501	1002.0	9.0	100	0.004
08042104CB	Field Blank	N/A	N/A	N/A	N/A	N/A	N/A	N/A	0.0	100	NFD
08042105CB	Field Blank	N/A	N/A	N/A	N/A	N/A	N/A	N/A	0.0	100	NFD

Notes: NFD = None Fibers Detected OWA = Outside Work Area IWA = Inside Work Area

Notes: Sample 08042101CB from inside the work area was overloaded and unable to be analyzed. The abatement contractor was notified and advised to use more water during abatement activities.

ECS Technician: Catey Bourne **Date:** 8/4/2021

ECS Mid-Atlantic, LLC
14026 Thunderbolt Place, Suite 100
Chantilly, VA 20151-3232
7034718400
7038345527

LETTER OF TRANSMITTAL

August 9, 2021

Alexandria City Public Schools
1340 Braddock Place Suite 620
Alexandria, VA 22314

ATTN: John Finnigan

RE: **ACPS James Polk ES Summer Abatement**
ECS Job # **47:11652-G**

Permits:
Location: **5000 Polk Avenue**
Alexandria, VA 22304

X Field Reports **X** For your use **X** As requested

CC: Alexandria City Public Schools - John Contreras
Alexandria City Public Schools - Norman Wiebusch
Waco, Inc - Chris Lanham

ENCL: Field Report # 12 8/5/2021

Michael P. Hamill, CIH
Environmental Senior Project Manager

Catherine Bourne
Assistant Staff Project Manager

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2. *The information in this report relates only to the activities performed on the report date.*
3. *Where appropriate, this report includes statements as to compliance with applicable project drawings, and specifications for the activities, performed on this report date.*
4. *Incomplete or non-conforming work will be reported for future resolution.*
5. *The results of samples and/or specimens obtained or prepared for subsequent laboratory testing will be presented in separate reports/documents.*

ECS Mid-Atlantic, LLC
14026 Thunderbolt Place, Suite 100
Chantilly, VA 20151-3232
(703) 471-8400 [Phone]
(703) 834-5527 [Fax]

FIELD REPORT

Project	**ACPS James Polk ES Summer Abatement**
Location	**Alexandria, VA**
Client	**Alexandria City Public Schools**
Contractor	**None Listed**

Project No.	**47:11652-G**
Report No.	**12**
Day & Date	**Thursday 8/5/2021**
Weather	**88 °/ Sunny**
On-Site Time	**7.00**
Lab Time	**0.00**
Travel Time*	**0.00**
Total	**7.00**
Re Obs Time	**0.00**

Remarks

Trip Charges*	Tolls/Parking*	Mileage*	Times of	Arrival	Departure
Chargeable Items				**6:00A**	**7:00A**
				9:00A	**3:00P**

* Travel time and mileage will be billed in accordance with the contract.

Summary of Services Performed (field test data, locations, elevations & depths are estimates) & Individuals Contacted.

The undersigned arrived on-site, as requested, to perform air monitoring and observe asbestos abatement. The materials to be removed today are floor mastic in the upper level hallway and classrooms 23 - 33. Photographs and a sketch for today's regulated work area are attached to this report.

UPPER LEVEL HALLWAY AND CLASSROOMS 23 – 33 WORK AREA MONITORING

Between 6:50 and 6:52 am, PCM air samples were started outside the work area at decontamination unit entry and critical barrier by the library. The sampling pumps were calibrated using a rotameter to 2.0 liters per minute.

Abatement workers were observed performing final cleaning the work area following removal of floor tile and black floor mastic. Water sprayers were utilized during cleaning activities.

Between 12:00 and 12:47 pm, the sampling pumps were checked using a rotameter. The flow rate was 2.0 liters per minute. The PCM air samples were stopped and gathered from outside the work area.

The abatement contractor stated the specified material had been removed from the regulated work area and requested a visual survey to confirm compliance. The Final Clearance Visual Survey Checklist was completed and is attached to this report.
Note that asbestos-containing floor tile and mastic may remain under partition walls, cabinets, and other fixtures within the work area and may be located in other areas in the school.

Following the successful completion of the final clearance visual survey, the abatement contractor applied an encapsulant to surfaces within the regulated work area. ECS will collect the final clearance TEM air samples on the next working shift.

By JP Nuique 1825

GENERAL

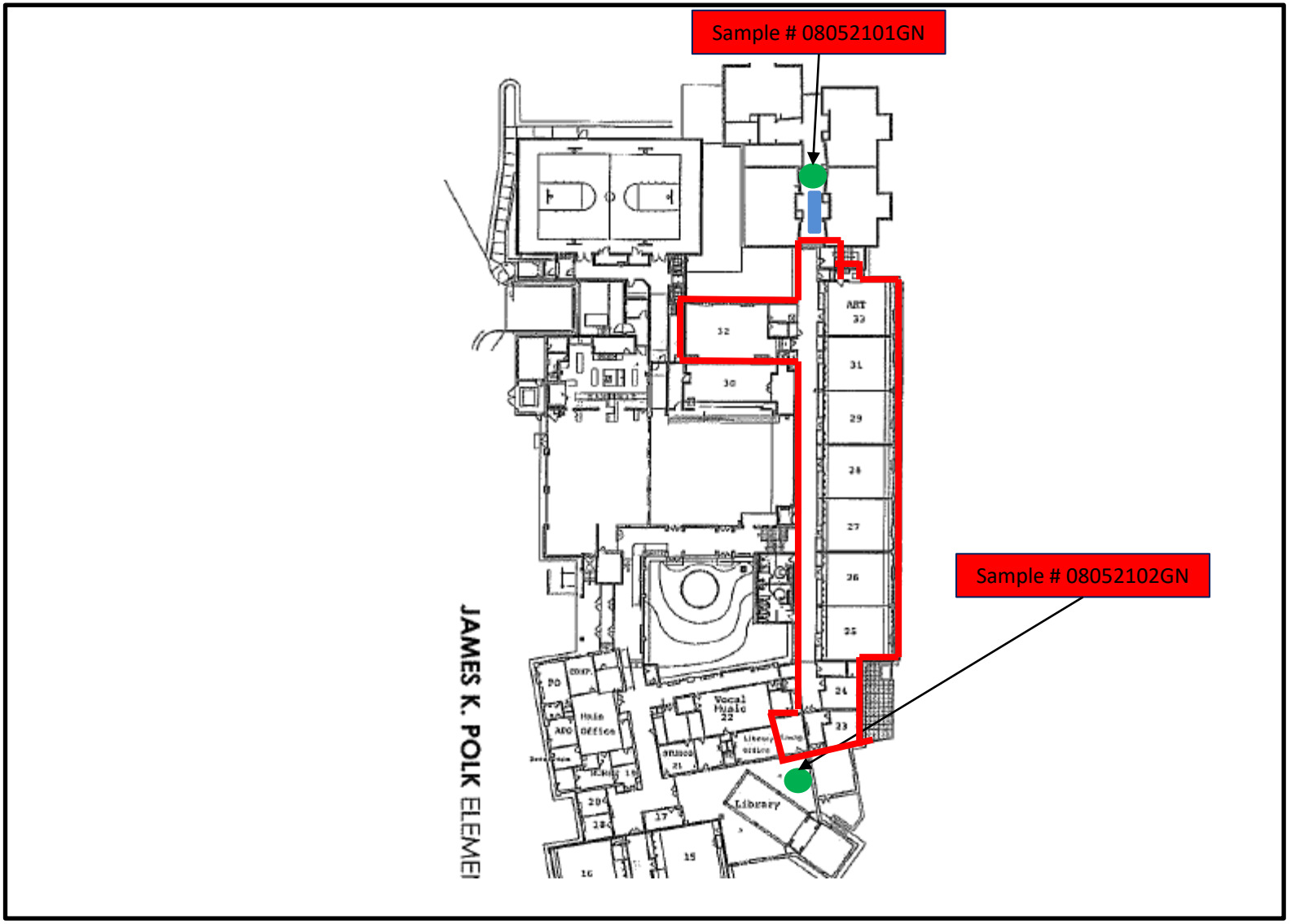
The regulated work area was surveyed to evaluate general compliance with applicable regulations. The Daily Work Area Survey Checklist was completed and is attached to this report.

ECS observed the abatement contractor placing the specified asbestos-containing materials in 6-mil polyethylene bags in barrels which were double-bagged and sealed in general accordance with applicable regulations. Waste bags/barrels were labeled and placed in a waste hauling container.

The undersigned prepared and analyzed the PCM air samples cassettes for total fiber concentration in general accordance with NIOSH Method 7400. Results were recorded on the PCM Chain of Custody which is attached.

The US EPA and Commonwealth of Virginia PCM re-occupancy criteria is less than or equal to 0.01 fibers per cubic centimeter of air (f/cc). OWA samples were reported below the level.

The sample results reflect the conditions where the air samples were collected at the time and dates of collection.



Legend

= Regulated Work Area

= Decontamination Unit

= Sample Location

Transmittal Page 4/11

James Polk ES
5000 Polk Ave,
Alexandria, VA 22304

Work Area Sketch
Upper Level

SCALE NTS

Project No. 47:11652-G

Date 08//05/21

Attachments



View of the 2nd floor work area following abatement activities

Figure 1



View of the 2nd floor work area following abatement activities

Figure 2

Attachments



View of the 2nd floor work area following abatement activities

Figure 3



View of the 2nd floor work area following abatement activities

Figure 4

Attachments



View of the 2nd floor work area following abatement activities

Figure 5



View of the 2nd floor work area following abatement activities

Figure 6

Attachments



View of the 2nd floor work area following abatement activities

Figure 7



View of the 2nd floor work area following abatement activities

Figure 8

ECS Mid-Atlantic, LLC

Daily Work Area Checklist

Project Number: 47:11652-G **Date:** 8/6/2021

Project Address: 5000 Polk Avenue
Alexandria, VA-22304

Work Area Location/Description: Upper Level

	Work Area Location/Description	Upper Level
Decontamination Enclosure	Floors and Walls Clean	Satisfactory
	No Debris Present	Satisfactory
	Signage Intact	Satisfactory
	Shower Functioning	Satisfactory
	Used Suits/Towels in Waste Bag	Satisfactory
Interior of Work Area	All Critical Barriers Intact	Satisfactory
	Wet Methods In-Use	Satisfactory
	Prompt Clean-Up	Satisfactory
	Adequate Lighting	Satisfactory
	Respiratory Protection	Satisfactory
	Disposable Clothing Worn Properly	Satisfactory
	No Respirators Stored in Work Area	Satisfactory
	Negative Air Filtration In-Use	Satisfactory
	Pre-Filters Clean	Satisfactory
	Exhaust Properly Vented	Satisfactory
	No Eating/Drinking/Smoking in Work Area	Satisfactory
End of Shift Checklist	Negative Air Filtration Machines Operating	Satisfactory
	Debris Bagged/Sealed	Satisfactory
	Work Area Secured from Public Access	Satisfactory
Air Samples Collected	Number of PCM Air Samples	2
	Number of PCM Blank Samples	2
	Work Area Acceptable	Yes

Notes:

ECS Technician: Catey Bourne **Date:** 8/6/2021

ECS Mid-Atlantic, LLC

Final Clearance Checklist

Project Number: 47:11652-G **Date:** 8/6/2021

Project Address: 5000 Polk Avenue
Alexandria, VA-22304

Work Area Location/Description: Upper Level

	Work Area Location/Description	Upper Level
Decontamination Enclosure	Floors and Walls Clean	Satisfactory
	No Debris Present	Satisfactory
	Signage Intact	Satisfactory
	Shower Functioning	Satisfactory
	Used Suits/Towels in Waste Bag	Satisfactory
Interior of Work Area	Floors	Satisfactory
	Walls	Satisfactory
	Ceiling	Satisfactory
	Windows	N/A
	Mechanical Equipment	N/A
	Ducts	N/A
	Pipes	N/A
	Lighting	N/A
	Other Surfaces	N/A
	Specified ACM Removed	Satisfactory
	Work Area Encapsulated	Satisfactory
	Negative Air Filtration Functioning	Satisfactory
	Waste Bags Removed	Satisfactory
	Final Clearance Air Sample Type	N/A
	Number of Samples Collected	0
	Sample Volume (liters)	0
	Work Area Acceptable	Yes

Notes: ECS will collect the final clearance TEM air samples on the next working shift.

ECS Technician: Catey Bourne **Date:** 8/6/2021

ECS Mid-Atlantic, LLC

PCM Air Sample Field Data Sheet

WORK AREA SAMPLES

Project Number: 47:11652-G
Project Address: 5000 Polk Avenue
Alexandria, VA-22304

Date: 8/5/2021
Page: 1 of 1

Sample #	Location/Description	Start	Stop	Start Flow (lpm)	Stop Flow (lpm)	Average Flow (lpm)	Total Time (lpm)	Volume (l)	Fibers (#)	Field (#)	Result (f/cc)
08052101GN	OWA,2nd floor work area at decontamination unit entry	6:50 AM	12:00 PM	2.0	2.0	2.0	310	620.0	1.0	100	0.001
08052102GN	OWA,2nd floor work area at critical barrier in the library	6:52 AM	12:47 PM	2.0	2.0	2.0	355	710.0	0.0	100	0.000
080521FB01GN	Field Blank	N/A	N/A	N/A	N/A	N/A	N/A	N/A	0.0	100	NFD
080521FB02GN	Field Blank	N/A	N/A	N/A	N/A	N/A	N/A	N/A	0.0	100	NFD

Notes: NFD = None Fibers Detected OWA = Outside Work Area IWA = Inside Work Area

Notes: The US EPA and Commonwealth of Virginia PCM re-occupancy criteria is less than or equal to 0.01 fibers per cubic centimeter of air (f/cc). OWA samples were reported below the level.

ECS Technician: JP Nuique **Date:** 8/5/2021

ECS Mid-Atlantic, LLC
14026 Thunderbolt Place, Suite 100
Chantilly, VA 20151-3232
7034718400
7038345527

LETTER OF TRANSMITTAL

August 9, 2021

Alexandria City Public Schools
1340 Braddock Place Suite 620
Alexandria, VA 22314

ATTN: John Finnigan

RE: **ACPS James Polk ES Summer Abatement**
ECS Job # **47:11652-G**

Permits:
Location: **5000 Polk Avenue**
Alexandria, VA 22304

X	Field Reports	**X**	For your use	**X**	As requested

CC: Alexandria City Public Schools - John Contreras
Alexandria City Public Schools - Norman Wiebusch
Waco, Inc - Chris Lanham

ENCL: Field Report # 13 8/6/2021

Michael P. Hamill, CIH
Environmental Senior Project Manager

Catherine Bourne
Assistant Staff Project Manager

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4. *Incomplete or non-conforming work will be reported for future resolution.*
5. *The results of samples and/or specimens obtained or prepared for subsequent laboratory testing will be presented in separate reports/documents.*

ECS Mid-Atlantic, LLC
14026 Thunderbolt Place, Suite 100
Chantilly, VA 20151-3232
(703) 471-8400 [Phone]
(703) 834-5527 [Fax]

FIELD REPORT

Project No.	**47:11652-G**
Report No.	**13**
Day & Date	**Friday 8/6/2021**
Weather	**88 °/ Sunny**
On-Site Time	**2.50**
Lab Time	**0.00**
Travel Time*	**0.00**
Total	**2.50**
Re Obs Time	**0.00**

Project	**ACPS James Polk ES Summer Abatement**
Location	**Alexandria, VA**
Client	**Alexandria City Public Schools**
Contractor	**None Listed**

Remarks

Trip Charges*	Tolls/Parking*	Mileage*	Times of	Arrival	Departure
Chargeable Items				**6:00A**	**7:30A**
				9:00A	**10:00A**

* Travel time and mileage will be billed in accordance with the contract.

Summary of Services Performed (field test data, locations, elevations & depths are estimates) & Individuals Contacted.

The undersigned arrived on-site, as requested, to perform air monitoring and final clearance TEM air samples on the upper level hallway and classrooms 23 - 33. A sketch for today's regulated work area is attached to this report.

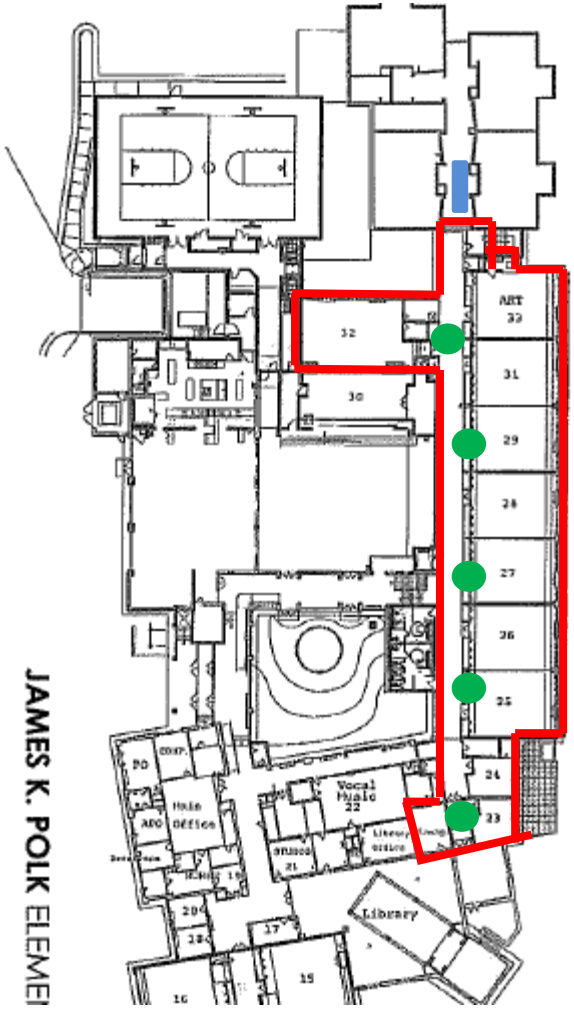
UPPER LEVEL HALLWAY AND CLASSROOMS 23 – 33 WORK AREA MONITORING

Following the successful completion of the final clearance visual survey, the abatement contractor applied an encapsulant to surfaces within the regulated work area the previous day. Aggressive air sampling was performed. Five (5) TEM air samples were started within the regulated work area and Five (5) TEM air samples were started outside the work area. The sampling pumps were calibrated using a rotameter to 8.0 liters per minute. One field blank sample was opened within the work area for 30 seconds. One field blank sample was opened outside the work area for 30 seconds.

At 9:30 am, the sampling pumps were checked using a rotameter after the air within and outside the regulated work area was sampled using TEM cassettes for 150 minutes at 8.0 liters per minute. The sampling cassettes, including the two field blanks and one sealed blank were labeled with unique identification and transported to EMSL, Beltsville MD for analysis. A copy of the chain of custody has been attached.

The EPA and Commonwealth of Virginia maximum allowable airborne asbestos concentration from within the work area is 70 structures per millimeter squared (s/mm2). In order to be deemed acceptable, the average of the interior samples analyzed must have asbestos concentrations of 70 s/mm2 or less. EMSL Laboratory, Beltsville MD, informed ECS that the analytical results of the TEM final clearance air samples collected from upper level hallway and classrooms 23 - 33 found the airborne asbestos fiber concentrations to be less than the maximum allowable concentration. The client and abatement contractor supervisor were informed of the results. A copy of the laboratory report is attached.

By JP Nuique 1825



Legend

= Regulated Work Area

= Decontamination Unit

= Sample Location Final Clearance TEM

Transmittal Page 3/6

James Polk ES
5000 Polk Ave,
Alexandria, VA 22304

Work Area Sketch
Upper Level

SCALE NTS

Project No. 47:11652-G

Date 08//06/21

EMSL Analytical, Inc.
10768 Baltimore Avenue Beltsville, MD 20705
Tel/Fax: (301) 937-5700 / (301) 937-5701
http://www.EMSL.com / beltsvillelab@emsl.com

EMSL Order: 192107541
Customer ID: ECMA78
Customer PO:
Project ID:

Attention: Catey Bourne
ECS Mid-Atlantic, LLC
14026 Thunderbolt Place
Suite 100
Chantilly, VA 20151
Project: James Polk/ 47:11652-G

Phone: (703) 471-8400
Fax: (703) 471-8400
Received Date: 08/06/2021 10:46 AM
Analysis Date: 08/06/2021
Collected Date: 08/06/2021

Test Report: Asbestos Fiber Analysis by Transmission Electron Microscopy (TEM) Performed by EPA 40 CFR Part 763 Appendix A to Subpart E

Sample	Location	Volume (Liters)	Area Analyzed (mm^2)	Non Asb	Asbestos Type(s)	#Structures ≥0.5µ < 5µ	#Structures ≥5µ	Analytical Sensitivity (S/cc)	Asbestos Concentration (S/mm^2)	Asbestos Concentration (S/cc)
080621 01 GN *192107541-0001*	FC, IWA, Hallway/ Classroom 23-33 Upper level	1200.00	0.0650	0	None Detected	0	0	0.0049	<15.00	<0.0049
080621 02 GN *192107541-0002*	FC, IWA, Hallway/ Classroom 23-33 Upper level	1200.00	0.0650	0	None Detected	0	0	0.0049	<15.00	<0.0049
080621 03 GN *192107541-0003*	FC, IWA, Hallway/ Classroom 23-33 Upper level	1200.00	0.0650	0	None Detected	0	0	0.0049	<15.00	<0.0049
080621 04 GN *192107541-0004*	FC, IWA, Hallway/ Classroom 23-33 Upper level	1200.00	0.0650	0	None Detected	0	0	0.0049	<15.00	<0.0049
080621 05 GN *192107541-0005*	FC, IWA, Hallway/ Classroom 23-33 Upper level	1200.00	0.0650	0	None Detected	0	0	0.0049	<15.00	<0.0049

Analyst(s)
Emily Baker (5)

Joe Centifonti, Laboratory Manager
or other approved signatory

EMSL maintains liability limited to cost of analysis. Interpretation and use of test results are the responsibility of the client. This report relates only to the samples reported above, and may not be reproduced, except in full, without written approval by EMSL. EMSL bears no responsibility for sample collection activities or analytical method limitations. The report reflects the samples as received. Results are generated from the field sampling data (sampling volumes and areas, locations, etc.) provided by the client on the Chain of Custody. Samples are within quality control criteria and met method specifications unless otherwise noted. This report must not be used to claim product certification, approval, or endorsement by NVLAP, NIST, or any agency of the federal government. Results reported in structures/cm3 are not covered by the laboratory's NVLAP accreditation. Measurement of uncertainty available upon request.

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

Initial report from: 08/06/2021 16:30 PM

OrderID: 192107541

EMSL ANALYTICAL, INC.
LABORATORY • PRODUCTS • TRAINING

Asbestos Chain of Custody

EMSL Order Number *(lab use only)*: 192107541

PHONE:
FAX:

Company Name: ECS Mid Atlantic LLC		**EMSL Customer ID:**	
Street: 14026 Thunderbolt Place Suite 100		**City:** Chantilly	**State or Province:** VA
Zip/Postal Code: 20151	**Country:** US	**Telephone #:**	**Fax #:**
Report To (Name): Catey Bourne		**Please Provide Results via:** ☐ Fax ☑ Email	
email Address: CBourne@ecslimited.com		**Purchase Order Number:**	
Client Project ID: James Polk ES / 47:11652-G		**EMSL Project ID** *(internal use only)*:	
State or Province Collected: VA		**CT only** ☐ Commercial/Taxable ☐ Residential/Tax Exempt	

EMSL-Bill to: ☑ Same ☐ Different - *If bill to is different note instructions in comment. Third party billing requires written authorization from third party*

Turnaround Time (TAT) Options Please Check

☐ 3 Hr[1]	☐ 4-4.5Hr[1] AHERA Only	☑ 6 Hr[1]	☐ 24 Hr	☐ 32 Hr[2]	☐ 48 Hr	☐ 72 Hr	☐ 96 Hr	☐ 1 Week	☐ 2 Week

[1]*Premium Service Charge applies for 3 Hour TEM AHERA or EPA Level II TAT – you will be asked to sign an authorization form. TEM Air 3-6 Hour, please call ahead to schedule*
[2]*32 Hour TAT available for select tests only; samples must be submitted by 11:30 am.*

PCM - Air
☐ NIOSH 7400
☐ w/ OSHA 8hr. TWA

PLM - Bulk (reporting limit)
☐ PLM EPA 600/R-93/116 (<1%)
☐ PLM EPA NOB (<1%)

Point Count
☐ 400 (<0.25%) ☐ 1000 (<0.1%)
Point Count w/Gravimetric
☐ 400 (<0.25%) ☐ 1000 (<0.1%)
☐ NYS 198.1 (friable - NY)
☐ NYS 198.6 NOB (non-friable-NY)
☐ NYS 198.8 SOF-V
☐ NIOSH 9002 (<1%)

TEM – Air[1]
☑ AHERA 40 CFR, Part 763
☐ NIOSH 7402
☐ EPA Level II
☐ ISO 10312

TEM - Bulk
☐ TEM EPA NOB
☐ NYS NOB 198.4 (non-friable-NY)
☐ TEM EPA 600/R-93/116 with milling prep (<0.1%)*

TEM – Water: EPA 100.2
Fibers >10µm ☐ Waste ☐ Drinking
All Fiber Sizes ☐ Waste ☐ Drinking

TEM- Settled Dust
☐ Microvac - ASTM D 5755
☐ Wipe - ASTM D6480
☐ Carpet Sonication (EPA 600/J-93/167)

Soil – Rock – Vermiculite (reporting limit)
☐ PLM EPA 600/R-93/116 with milling prep (<0.25%)
☐ TEM EPA 600/R-93/116 with milling prep (<0.1%)*
☐ TEM Qualitative via Filtration Prep
☐ TEM Qualitative via Drop Mount Prep
☐ Cincinnati Method EPA 600/R-04/004 – PLM/TEM

*Lower reporting limits avaialble on request

Other test (please specify):

☐ **Stop At First Positive** *(clearly identify homogenous areas below)*

Filter Pore Size (Air Samples): ☐ 0.8µm ☑ 0.45µm

Sampler's Name: Gallardo Nuigue **Sampler's Signature:**

Sample #	Sample Description/Location	Volume, Area or Homogenous Area	Date/Time Sampled
D80621 01 GW	FC, IWA, Hallway/Classroom 23-33 upper level	1200 L	8/6/21
02			
03			
04			
05			

Client Sample # (s): 01 GW - 13 GW **Total # of Samples:** 13

Relinquished by (Client): Gallardo Nuigue **Date:** 8/6/21 **Time:**

Received by (Lab): **Date:** **Time:**

Comments/Special Instructions: Aggressive
Analyze IWA only

'21 AUG 6 AM10:46

EMSL Analytical, Inc.'s (DBA: LA Testing) Laboratory Terms and Conditions are incorporated into this chain of custody by reference in their entirety. Submission of samples to EMSL Analytical Inc. constitutes acceptance and acknowledgment of all terms and conditions.

OrderID: 192107541

EMSL ANALYTICAL, INC.
LABORATORY • PRODUCTS • TRAINING

Asbestos Chain of Custody

EMSL Order Number *(Lab Use Only)*:

192107541

Additional Pages of the Chain of Custody are only necessary if needed for additional sample information

Sample #	Sample Description	Volume/Area (Air) HA # (Bulk)	Date/Time Sampled
080621 06 GN	FC, OWA, Hallway / classroom 23-33 - upper level	1200 L	8/6/21
07			
08			
09			
10			
11	Field Blank opened 30 sec. by Entrance	N/A	
12	Field Blank opened 30 sec. in Ambient	N/A	
13	Sealed Blank (not opened)	N/A	

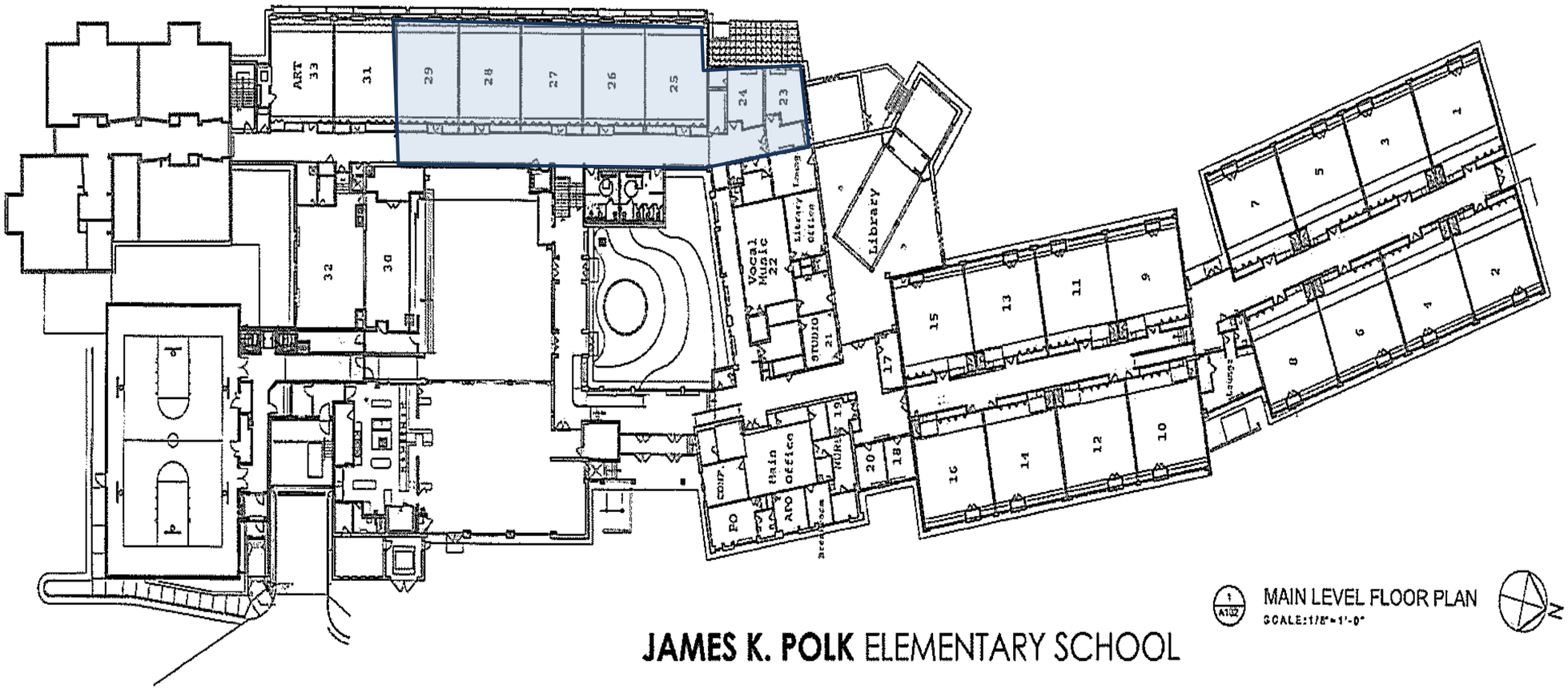
***Comments/Special Instructions:**

Sample Instructions

Controlled Document – COC-05 Asbestos – R12.1 – 11/01/2019

EMSL Analytical, Inc.'s (DBA: LA Testing) Laboratory Terms and Conditions are incorporated into this chain of custody by reference in their entirety. Submission of samples to EMSL Analytical Inc. constitutes acceptance and acknowledgment of all terms and conditions.

Appendix II: Drawings



MAIN LEVEL FLOOR PLAN
SCALE: 1/8" = 1'-0"

JAMES K. POLK ELEMENTARY SCHOOL

Approximate locations of floor tile and mastic abatement

James K. Polk Elementary School
5000 Polk Avenue
Alexandria, VA 22304

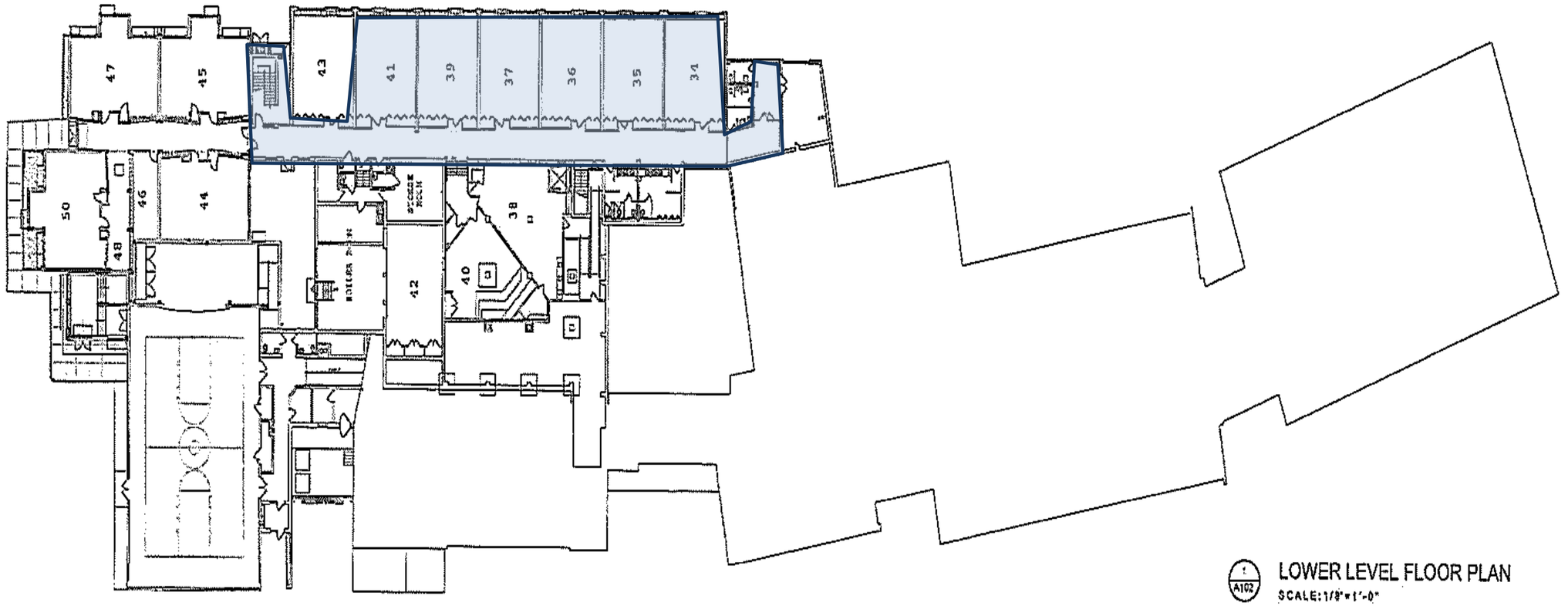
ECS

Abatement
Location Sketch
Main (Upper) Level

Scale: NTS

Project No.
47:11652-G

Dates:
7/26-8/6/21



LOWER LEVEL FLOOR PLAN
SCALE: 1/8" = 1'-0"

Approximate locations of floor tile and mastic abatement

James K. Polk Elementary School
5000 Polk Avenue
Alexandria, VA 22304

ECS

Abatement Location Sketch Lower Level

Scale: NTS

Project No.
47:11652-G

Dates:
7/26-8/6/21

Appendix III: Certifications/ Licenses

DPOR License Lookup License Number 3309001288

License Details

Name	NUIQUE, GALLARDO SEDILLO
License Number	3309001288
License Description	Asbestos Project Monitor License
Rank	Asbestos Project Monitor
Address	ROCKVILLE, MD 20851
Initial Certification Date	2004-07-13
Expiration Date	2022-07-31

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DPOR License Lookup License Number 3309001881

License Details

Name	BOURNE, CATHERINE GRACE
License Number	3309001881
License Description	Asbestos Project Monitor License
Rank	Asbestos Project Monitor
Address	ALEXANDRIA, VA 22304
Initial Certification Date	2017-03-27
Expiration Date	2022-03-31

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DPOR License Lookup License Number 3309002049

License Details

Name	TURNER, JENNIFER
License Number	3309002049
License Description	Asbestos Project Monitor License
Rank	Asbestos Project Monitor
Address	WASHINGTON, DC 20005
Initial Certification Date	2020-10-20
Expiration Date	2021-10-31

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