

**DOTHAN CITY BOE**

**KELLY SPRINGS ELEMENTARY  
SCHOOL  
MANAGEMENT PLAN**

**FOR**

**ASBESTOS-CONTAINING  
MATERIALS**

Updated  
June 2, 2026  
By



**RainCrow**  

---

**Environmental**

752 Myrick Rd.  
Deatsville, Alabama 36022

# Alabama Asbestos Management Program

L1 **AHERA Management Plan School Cover Sheet** LEA: Dothan City Schools 1 3 0  
Name Code #  
L2 School: Kelly Springs Elementary. School 0 9 7  
Name Code #

L3 **Management Plan Submission**  Original  Resubmitted  New Building

## L4 List of Documents Attached

- |   |  |
|---|--|
| <input checked="" type="checkbox"/> List of School Buildings (Form 3)   | <input checked="" type="checkbox"/> Follow-up Action Plan (Form 7)   |
| <input checked="" type="checkbox"/> Homogeneous Areas (Form 4)          | <input type="checkbox"/> Assessment Sheet(s) (Optional Form 8)       |
| <input checked="" type="checkbox"/> Summary of Recommendations (Form 5) | <input checked="" type="checkbox"/> Sampling Form (Optional Form 9)  |
| <input checked="" type="checkbox"/> Response Action Plan (Form 6 & 6A)  | <input checked="" type="checkbox"/> Lab Report(s) (Optional Form 10) |

## L5 LEA AHERA DESIGNEE (School Asbestos Coordinator)

Typed Name: Mrs. Sharla Godwin Name of Training Course: Managing Asbestos in Bldgs.  
Mailing Address: 1665 Honeysuckle Rd. Year 21 Month 11 Day 10 Total Hours of Course 16  
Dothan, AL 36305 Name of Training Agency: Safe State (Univ of Alabama)

## L6 MANAGEMENT PLANNER

Typed Name: Mr. Stan Eller Agency: RainCrow Environmental  
Accreditation Number: APL0625257655 Signature: Stan Eller Date: 6/2/2026

*For persons who performed inspections, and recommend(ed) design, or carry out response actions (except for operations and maintenance) the local education agency used or will use persons who have been accredited by a state which has adopted a contractor accreditation plan under section 206(b) of Title II of the Act or is accredited by an EPA-approved course under section 206(c) of Title II of the Act. In addition, the LEA has considered whether any conflict of interest may arise from the interrelationship among accredited personnel, such as abatement activities being performed by an inspector or management planner, and whether that should influence the selection of accredited personnel to perform activities under this AHERA program.*

*The signatories below certify that the general local education agency responsibilities, as stipulated by Part 763.84 have been met or will be met.*

L7 Signature: \_\_\_\_\_ Signature: \_\_\_\_\_  
*LEA AHERA Designee* *LEA Superintendent/ Owner*  
Date: \_\_\_\_\_ Dr. Garrick Askew  
*Typed Name of Superintendent/Owner*

### For Reviewing Agency Use Only

- Accepted  
 Returned for Reason Stated Below

Reviewers Signature: \_\_\_\_\_ Date: \_\_\_\_\_

# Alabama Asbestos Management Program

## School Listing of Buildings

L1 **LEA:** Dothan City Schools 1 3 0  
Name Code #

L2 **School:** Kelly Springs Elementary School 0 9 7  
Name Code #

L3 **Address:** 1124 Kelly Springs Rd.  
Dothan, Al 36303 **County** Houston

	C1	C2	C3	C4	C5				
	Building Description	Total Ft. <sup>2</sup>	Date of Inspection		Check Here for Presence of:				
No.	Name (Address if different than school)		Present	Previous	ACBM		Suspect ACBM		No ACBM
					Friable	Non- Friable	Friable	Non- Friable	
01	Main Building	70,100	2/26/25	8/15/91				X	
02	Activity Building		2/26/25	3/ /98					X

L4 Inspector: Stan Eller Alabama Certification Number: AIN0624257655

Name  
  
Signature

Date: 2/28/2025 Agency: RainCrow Environmental

# Alabama Asbestos Management Program


## Building Homogeneous Area

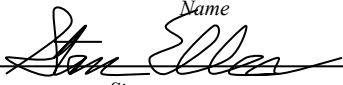
L1 **Code:** 1 3 0 - 0 9 7 - 0 1  
LEA School Building

L2 **School:** Kelly Springs Elementary School  
Name

L3 **Building:** Main Building  
Name

C1	C2	C3	C4	C5	C6	C7	C8	C9	C10	C11
Homogeneous Area # (2-digit)	Functional Space # (2-digit)	Friable (Y/N)	Category (T, S, M)	<b>Description</b>	Sampling Sheet (s)	Lab Report (s)	ACM (Y/N)	Assumed ACM	Assessment Sheet	Assessment Category (1-7)
01	00	N	M	Sheetrock Ceiling (Throughout)				X		
02	02	N	M	1" Ceramic Floor Tile/Grout (Restrooms) gray				X		
03	02	N	M	4" Ceramic Wall Tile/Grout (Restrooms) white				X		
04	03	N	M	Laminate Floor/Mastic (Media Room) dk brown wood pattern-3,000sf				X		
05	06	N	M	Vinyl Stair Tread/mastic (Each end of stage)-tan				X		
06	05	N	M	6" Gray Quarry Tile/Grout (Kitchen and Serving Area)				X		
07	08	N	M	Carpet Mastic (CR 105 Observation) under gray comm. Carpet				X		
08	07	N	M	Carpet Mastic (Principal's Office)				X		
10	07	N	S	1-Sink w/ Gray Spray-on (Office Workroom)				X		
11	01	N	M	Carpet Mastic (Beneath Carpet Squares in Common Area)				X		

L4 Inspector: Stan Eller Alabama Certification Number: AIN0624257655  
Name  
  
Signature Date: 2/26/2025 Agency: RainCrow Environmental

L5 Planner: Stan Eller Alabama Certification Number: APL0724257655  
Name  
  
Signature Date: 2/28/2025 Agency: RainCrow Environmental

# Alabama Asbestos Management Program

## Building Homogeneous Area

L1 **Code:** 1 3 0 - 0 9 7 - 0 1  
LEA School Building

L2 **School:** Kelly Springs Elementary School  
Name

L3 **Building:** Main Building  
Name

C1	C2	C3	C4	C5	C6	C7	C8	C9	C10	C11
Homogeneous Area # (2-digit)	Functional Space # (2-digit)	Friable (Y/N)	Category (T, S, M)	Description	Sampling Sheet (s)	Lab Report (s)	ACM (Y/N)	Assumed ACM	Assessment Sheet	Assessment Category (1-7)
10	01	N	S	38-Sinks w/ gray spray-on (CRs, Workrooms, and Media Room Storage)				X		

L4 Inspector: Stan Eller Alabama Certification Number: AIN0624257655  
Name  
  
Signature Date: 2/26/2025 Agency: RainCrow Environmental

L5 Planner: Stan Eller Alabama Certification Number: APL0724257655  
Name  
  
Signature Date: 2/28/2025 Agency: RainCrow Environmental

# Alabama Asbestos Management Program

L1 **AHERA Management Plan School Cover Sheet**      LEA: Dothan City Schools      1 3 0  
Name      Code #

L2      School: Kelly Springs Elementary School      0 9 7  
Name      Code #

L3 **Management Plan Submission**       Original       Resubmitted       New Building

L4 **List of Documents Attached**

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| <input type="checkbox"/> Response Action Plan (Form 6 & 6A)           | <input type="checkbox"/> Lab Report(s) (Optional Form 10)      |

L5 **LEA AHERA DESIGNEE** (*School Asbestos Coordinator*)      **AHERA Inspector/AHERA**  
 Typed Name: Ted Hall      Name of Training Course Management Planner  
 Mailing Address: 500 Dusy Street      Year 88 Month 7 Day 15 Total Hours of Course 40  
Dothan, AL 36301      Name of Training Agency University of Alabama

L6 **MANAGEMENT PLANNER**

Typed Name: Ted Hall      Agency: Dothan City Schools  
 Accreditation Number: PL0788H9506      Signature: Ted Hall      Date: 8/26/91

*For persons who performed inspections, and recommend(ed) design, or carry out response actions (except for operations and maintenance) the local education agency used or will use persons who have been accredited by a state which has adopted a contractor accreditation plan under section 206(b) of Title II of the Act or is accredited by an EPA-approved course under section 206(c) of Title II of the Act. In addition, the LEA has considered whether any conflict of interest may arise from the interrelationship among accredited personnel, such as abatement activities being performed by an inspector or management planner, and whether that should influence the selection of accredited personnel to perform activities under this AHERA program.*

*The signatories below certify that the general local education agency responsibilities, as stipulated by Part 763.84 have been met or will be met.*

L7 Signature: Ted Hall      Signature: Gene J. Watson  
LEA AHERA Designee      LEA Superintendent/Owner  
 Date: 8/26/91      Gene J. Watson  
Typed Name of Superintendent/Owner

Accepted      **For Reviewing Agency Use Only**  
 Returned for Reason Stated Below

Reviewers Signature: \_\_\_\_\_ Date: \_\_\_\_\_

# Alabama Asbestos Management Program

## School Listing of Buildings

L1 LEA: Dothan City Schools 1 3 0  
Name Code #

L2 School: Kelly Springs Elementary School 0 9 7  
Name Code #

L3 Address: 1000 Kelly Springs Road

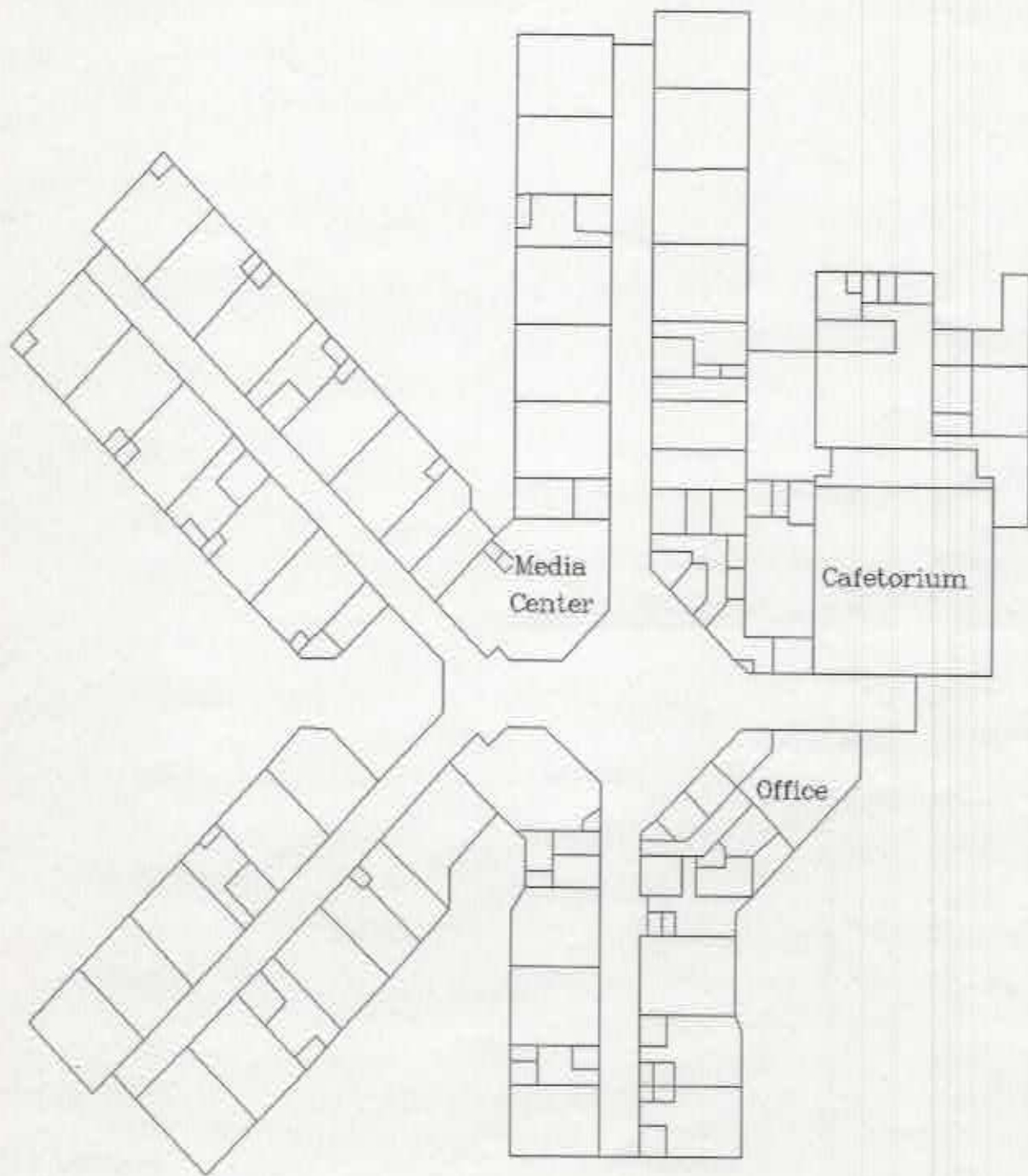
Dothan, AL 36303 County Houston

C1	C2	C3	C4		C5					
No.	Building Description Name (Address if different than school)	Total Sq. Ft.	Date of Inspection		Check Here for Presence of:					
			Present	Previous	ACBM		Suspect ACBM		No ACBM	
					Friable	Non-Friable	Friable	Non-Friable		
01	Main Building	70100	8/15/91							X
02	Activity Building			Spring 1998						X

L4 Inspector: Ted Hall Alabama Certification Number: 1N0788H9506

Name  
  
Signature

Date: 8/26/91 Agency: Dothan City Schools



Kelly Springs Elementary School  
Kelly Springs Road

LEA: Dothan City Schools (130)

School: Kelly Springs Elem. (097)

Building: Activity Building (02)

Construction of this (  ) new building (  ) building addition completed Spring 1998

I monitored this construction and completed an inspection of the facility prior to its use. The new construction contains no ACBM.

Jed Hall  
Inspector/Management Planner



# ATLAS

## AHERA 3-YEAR REINSPECTION and LIMITED ASBESTOS SURVEY

### KELLY SPRINGS ELEMENTARY SCHOOL

1124 KELLY SPRINGS ROAD,  
DOTHAN, ALABAMA 36303

ATLAS PROJECT NUMBER: Z003001189

#### PREPARED FOR:

**Ms. Sharla Godwin**  
**Director of Facilities and Maintenance**  
Dothan City Schools  
1665 Honeysuckle Road, Suite 1,  
Dothan, Alabama 36305

#### PREPARED BY:

Atlas Technical Consultants LLC  
200 Wellington Manor Court, Suite 100  
Alabaster, Alabama 35007

April 27, 2022



200 Wellington Manor Court, Suite 100  
Alabaster, AL 35007  
(205) 733-8775 | [www.oneatlas.com](http://www.oneatlas.com)

April 27, 2022

Ms. Sharla Godwin  
**DOTHAN CITY SCHOOLS**  
1665 Honeysuckle Road, Suite 1  
Dothan, Alabama 36305

**Subject: AHERA 3-Year Re-Inspection & Limited Asbestos Survey  
Kelly Springs Elementary School  
1124 KELLY SPRINGS ROAD,  
DOTHAN, ALABAMA 36303**

Dear Ms. Godwin:

Dothan City Schools (DCS) retained Atlas Technical Consultants (Atlas) to conduct the United States Environmental Protection Agency (USEPA) Asbestos Hazard Emergency Response Act (AHERA) asbestos-containing building materials (ACBMs) 3 Year re-inspection within Kelly Springs Elementary School (KES). KES is located at 1124 Kelly Springs Road, Dothan, Alabama 36303. The 3-Year re-inspection is a requirement of the Asbestos-Containing Materials in Schools; Final Rule and Notice, 40 CFR part 763, and must be completed every three years from the date Dothan City Schools management plan was implemented for the schools. The re-inspection is a three (3)-phase process that consisted of the following:

1. Review of the school's original management plan and subsequent inspection reports to note the condition and location of the ACBMs that were identified.
2. Re-inspect each previously recorded ACBMs while noting the material's present condition.
3. Assess the ACBMs' potential for creating a hazard, and record any change from the initial survey. Should changes occur; new response actions will be indicated. Changes that have occurred and the responses appear on the inspection form. Atlas observed the following changes since the 2019 asbestos inspection report.
  - I. Classrooms 101-106; 201-215; 301-318; 400-417 and Nurse's office all have light/dark gray laminate luxury vinyl floor tile (LVT) that has been added since the 2019 asbestos inspection report. Atlas sampled the light/dark gray LVT flooring during the February 2, 2022, AHERA 3-year re-inspection and the flooring was found to be non-detect for asbestos. Therefore, this material will not be included on the updated site map and be dropped off the inspection forms for the 2025 AHEAR 3-year re-inspection.
  - II. The media center, room 300, contained dark brown wood laminate LVT that was not present during the 2019 asbestos inspection report. No analytical data is present to prove this material does not contain asbestos. Therefore, the dark



brown LVT observed in the media center is assumed ACBM until testing proves otherwise. This assumed material will be added to the updated site map.

- III. Gray/brown/tan circular pattern carpet was observed in the central common area and computer lab room 400 that was not previously sampled during the 2019 asbestos inspection report. No analytical data is present to confirm this material is non-detect for asbestos. Therefore, the gray/brown/tan circular pattern carpet in the central commons area and room 400 is assumed ACBM until testing proves otherwise. This assumed material will be added to the updated site map.

During the 3-Year AHERA Asbestos re-inspection, Atlas performed a limited asbestos survey of select materials observed during the 3-Year re-inspection. The following materials were sampled during the re-inspection on February 2, 2022:

1. Gray Cove Base with Yellow Mastic
2. Light/Dark Gray Laminate
3. Dark Gray Laminate with Yellow Mastic
4. Blue Cove Base with Yellow Mastic

These identified materials were either added since the 2019 asbestos inspection report or not previously sampled. Atlas observed additional suspect ACBM that were not sampled during this limited asbestos inspection. This non-invasive survey included a visual inspection and physical assessment to identify suspect asbestos-containing materials (ACMs) and evaluate their general condition. The scope of work included sampling and laboratory analysis of suspect friable and non-friable ACMs within the building.

Atlas collected twelve (12) bulk samples with twenty-four (24) layers on February 2, 2022 and submitted them to ATC Group Services (ATC) laboratory located at 104 East 25th Street, 8th Floor, New York, New York, using polarized-light microscopy (PLM) and dispersion staining (Method Reference: 40 CFR Part 763, Volume 47, No. 103, May 27, 1982 pg. 23376). The analytical results indicated greater than 1% asbestos was detected in zero (0) of the three (3) bulk samples (6 layers) of the one (1) suspect materials collected and analyzed during this survey.

Mr. Zander Cordan (Inspector I.D. No. AIN0521678077) performed the above-referenced phases on February 2, 2022. The hand-written inspection forms, inspector's certification, site maps, photo-log, analytical results along with a copy of the previous inspection reports, are included with this report.



Atlas appreciates the opportunity to provide the AHERA 3-Year re-inspection and limited asbestos survey services for DCS. If you have any questions, please call us at (205) 733-8775.

Respectfully submitted,

**Atlas Technical Consultants LLC**

A handwritten signature in black ink, appearing to read "Zander Cordan". The signature is fluid and cursive, with a long horizontal stroke extending to the right.

Zander Cordan  
State of Alabama Licensed Asbestos Inspector  
AIN0521678077  
Direct Line: (205) 624-1869  
Email: [Alexander.cordan@oneatlas.com](mailto:Alexander.cordan@oneatlas.com)

A handwritten signature in black ink, appearing to read "Stephanie J. Pryor". The signature is cursive and elegant, with a prominent loop at the end.

Stephanie Pryor P.E. AL, MS  
Environmental Department Manager  
Direct Line (205) 733-8775  
Email: [Stephanie.pryor@oneatlas.com](mailto:Stephanie.pryor@oneatlas.com)

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Appendix II	Asbestos Sample Location Map
Appendix III	Current Asbestos Containing Building Materials Map
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Appendix V	Picture Log
Appendix VI	Licenses and Certifications
Appendix VII	Previous AHERA 3-Year Re-Inspection Report(s)
Appendix VIII	Previous ACM Sampling Report(s)

## 1. SITE DESCRIPTION

The property consists of approximately 23.7 acres and is developed with Kelly Springs Elementary School (KSE), an institutional structure originally constructed in approximately 1998 with the gym added on in 2003. The building encompasses approximately 73,334 square feet and is currently occupied by KSE. The building has multiple offices, classrooms, common areas, restrooms, media center, cafeteria and gym. The property building is surrounded by concrete, asphalt pavement, and landscaped areas.

Atlas, formerly known as ATC Group Services conducted a Limited Asbestos Inspection dated February 15, 2019 submitted as an addendum to the AHERA 3-Year inspection. Zero (0) of the seventeen (17) samples with twenty-four (24) layers were found to contain asbestos.

It should be noted that all non-detect materials identified during ATC Group Services 2019 ACM report were removed from the list of materials to be inspected during the AHERA 3-Year update Inspections.

Atlas identified the following suspect asbestos-containing materials that were included the sampling event conducted on February 2, 2022:

- Gray cove base with yellow mastic
- Light/dark gray LVT with yellow mastic.
- Dark gray LVT with yellow mastic
- Blue cove base with yellow mastic

## 2.0 ACM Survey

Bulk sampling was conducted in general accordance with procedures outlined in the Alabama Department of Environmental Management (ADEM) and the U.S. Environmental Protection Agency (EPA) guidance document entitled Guidance for Controlling Asbestos-Containing Materials in Buildings (Document No. 560/5-85/024). Mr. Zander Cordan, of Atlas, (State of Alabama Inspector License No. AIN0521678077) performed the asbestos inspection on February 2, 2022.

### 2.1 Homogeneous Areas (HAs)

Prior to collecting any samples, HAs were identified and listed to develop a sampling strategy. A homogeneous sampling area can be described as one or more areas of material that are similar in appearance and texture and that have the same installation date and function. The actual number of samples collected from each homogeneous sampling area may vary, based on the type of material and the professional judgment of the inspector.

### 2.2 Hazard Assessment Factors

From the list of suspect homogeneous materials, a physical assessment was performed for each material on the list. A physical assessment includes evaluating the condition, assessing the potential for disturbance, and determining the friability of each material. Friability is a term used to describe the ease in which a building material inherently lends itself to disturbance. By definition, "friable" materials are those that can be crumbled or reduced to powder by hand pressure when dry. Each

material on the list was further classified into one of three categories, which have specific sampling requirements for each category.

**Surfacing Materials:** Refers to spray-applied or troweled surfaces such as plaster ceilings and walls, fireproofing, textured paints, textured plasters, and spray-applied acoustical surfaces.

**Thermal System Insulation:** Refers to insulation used to inhibit heat gain or loss on pipes, boilers, tanks, ducts, and various other building components.

**Miscellaneous Materials:** Refers to friable and non-friable products and materials that do not fit in any of the above two categories such as resilient floor covering, baseboards, mastics, adhesives, roofing material, caulking, glazing, and siding. This category also contains wallboard and ceiling tile.

All suspect ACMs were then assessed by their condition as good (intact), fair (damaged), or poor (significantly damaged) per Title 40 Code of Federal Regulations Part 763. Material with localized significant damage was also assessed as poor when observed.

### 2.3 Suspect Asbestos-Containing Material

Atlas collected twelve (12) bulk samples with twenty-four (24) distinct layers from the interior of the building, in conjunction with the AHERA 3-Year update inspection. The bulk samples were analyzed by Polarized Light Microscopy (PLM) based on the number of distinct layers (materials) associated with each bulk sample.

For example, window glazing and caulk are collected as one bulk sample but are analyzed as two distinct materials by the asbestos laboratory, as required by NVLAP. Samples were obtained with tools designed to penetrate a material without creating excessive dust. An effort was made to obtain samples that were representative of all layers of the material. The area was pre-wetted to reduce potential fiber generation during the sampling process. Atlas' sampling procedures incorporate the use of plastic bags labeled in a unique numbering sequence to store bulk samples.

Information about bulk samples, including the sample number and material description, were noted on the chain-of-custody sheets after each sample was collected. Analytical results and field chain-of-custody sheets are included in Appendix IV. The site was inspected for the presence of material that may contain more than one percent asbestos. In accordance with the scope of work for the project, the survey included the interior of the site building and was conducted using semi-destructive sampling procedures.

### 2.4 Laboratory Analytical Results

The twelve (12) collected bulk samples were submitted per chain of custody protocol to ATC Group Services (ATC) laboratory located at 104 East 25th Street, 8th Floor, New York, New York. Using polarized-light microscopy (PLM) and dispersion staining (Method Reference: 40 CFR Part 763, Volume 47, No. 103, May 27, 1982, pg. 23376), the analytical results indicated greater than 1% asbestos was not detected in any of the twelve (12) bulk samples, twenty-four (24) layers) of the four (4) suspect materials collected and analyzed during this survey. A summary of identified, accessible suspect ACBMs can be found in Table 1.

Multiple samples of each suspect material were submitted for analysis. EPA regulations indicate that if one sample of a homogeneous group contains asbestos, then the remaining quantity of that material contains asbestos, regardless of additional analysis.

During our survey, twelve bulk samples of suspect asbestos-containing materials were collected in which twenty-four individual layers were analyzed by the laboratory. During sample collection, Atlas evaluated the condition of the suspect materials. A complete listing of the materials submitted for analysis and their results is presented in Table 1 attached to this report. A copy of the analytical report and chain of custody are also attached to this report in Appendix IV.

Non-friable materials such as vinyl/asphaltic products (floor tiles/ floor sheeting, mastics, shingles etc.), where small, thin asbestos fibers may have been potentially milled into the non-organic binder matrix, are difficult to analyze by PLM because of the small, thin asbestos fibers in resinously bound materials. Because of this difficulty, samples containing some asbestos may be reported as non-detectable. EPA recommends that these types of materials, which were reported as non-ACBMs by PLM, be further analyzed using the TEM Chatfield Method.

Atlas was not authorized to conduct this TEM analysis on the non-organically bound materials.

The National Voluntary Laboratory Accreditation Plan (NVLAP) managed by the National Institute of Standards and Technology (NIST) for bulk sample analysis, lists ATC as an accredited laboratory with certificate No. 101187-0. A copy of laboratory certifications can be found in Appendix VI.

### **3.0 Conclusions**

A material is considered by the USEPA and Alabama Department of Environmental Management (ADEM) to be asbestos-containing if at least one sample collected from the homogeneous area has asbestos present in concentrations greater than one percent (>1.0%). Atlas conducted condition assessments and collected bulk samples of suspect ACMs. Greater than 1% detectable concentrations of asbestos were not documented in any of the samples submitted.

The Sample Results Table (attached) presents a summary of laboratory analysis of the entire sampled suspect ACMs.

**ACMs were not identified during this inspection.**

### **4.0 Recommendations**

Atlas recommends that the AHERA 3-Year Re-inspection be conducted in three years' time in the year 2025 to assess if any changes or renovations have taken place at KSE.

Atlas notes that suspect ACM may be present within the survey location in inaccessible or concealed spaces. If the future planned restoration of the assessment area makes these areas accessible, Atlas recommends that a thorough assessment of these spaces be conducted at that time to identify and confirm the presence or absence of additional ACM's. Until then, such unidentified materials should be assumed ACM in accordance with 40 CFR 761.

## 5.0 Limitations

This report is not to be utilized as a bidding document or as a project specification document since it does not have all the components required to serve as an Asbestos Project Design document or an Abatement Work Plan.

The results, findings and conclusions expressed in this report are based only on conditions observed during our survey of the accessible areas of the building. Atlas makes no representation or assumptions as to past conditions or future occurrences. The findings of this report represent Atlas' professional judgment; no other warranty is expressed or implied. This report is prepared to assist the building owner, architect, construction manager, general contractors, and potential asbestos abatement contractors in locating ACM. The limitations of the survey may not qualify this report to be adequate for all regulatory applications.

Our professional services have been performed, our findings obtained, and our conclusions prepared in accordance with customary principles and practices in the fields of environmental science and engineering. This statement is in lieu of other statements either expressed or implied. This report does not warrant against future operations or conditions, nor does it warrant against operations or conditions present of a type or at a location not investigated.

This report is certified to Dothan City Schools (DCS). The scope of services performed in execution of this evaluation may not be appropriate to satisfy the needs of other users, and use or re-use of this document or the findings, conclusions, or recommendations is at the risk of said user.

Atlas' recommendations are based in part on federal, state, local regulations, and guidelines. Atlas does not undertake responsibility for reporting to any local, state, or federal public agencies of conditions at the site that may present a potential danger to public health or safety. Atlas recommends that the Client comply with regulations and response actions in accordance with federal, state, and local regulations.

Suspect asbestos samples were submitted for analysis at an NVLAP-accredited laboratory via polarized light microscopy. The report represents the conditions during which the survey was performed and locations where the suspect asbestos samples were collected. Inferences were based on the results of the 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.

### **Table 1 – ACM Sample Results**

**TABLE 1: SAMPLE RESULTS**  
**KELLY SPRING ELEMENTARY SCHOOL**  
**1124 KELLY SPRINGS ROAD,**  
**DOTHAN, AL, 36303**  
**ATLAS PROJECT NUMBER: Z003001189**

Sample Number	Material Description	Sample Location(s)	Condition (Good/Fair/Poor)	Approximate Quantity of ACM (SF)	Results %
KSE-1	Gray cove base with yellow mastic	1 <sup>st</sup> Conference room	Good-Fair	N/A	ND
KSE -2	Gray cove base with yellow mastic	Room 106 work rook	Good-Fair	N/A	ND
KSE -3	Gray cove base with yellow mastic	Music/art room 200	Good-Fair	N/A	ND
KSE -4	Light/dark gray laminated with yellow mastic	Conference room	Good	N/A	ND
KSE -5	Light/dark gray laminated with yellow mastic	Room 106 work rook	Good	N/A	ND
KSE -6	Light/dark gray laminated with yellow mastic	Music/art room 200	Good	N/A	ND
KSE -7	Dark gray laminate with laminate	Room 410 adjacent to media center	Good	N/A	ND
KSE -8	Dark gray laminate with laminate	Room 410 adjacent to media center	Good	N/A	ND
KSE -9	Dark gray laminate with laminate	Room 410 adjacent to media center	Good	N/A	ND
KSE -10	Blue cove base with yellow mastic	Office break room	Good-Fair	N/A	ND
KSE -11	Blue cove base with yellow mastic	Office break room	Good-Fair	N/A	ND
KSE -12	Blue cove base with yellow mastic	Office break room	Good-Fair	N/A	ND

Table: ND= Not Detected, NA= Not Applicable, Red=>1% asbestos, SF= Square Feet

**APPENDIX I**  
**3-YEAR RE-INSPECTION FORMS**

School: Kelly Springs Elementary (KSE)

Building: Main Bldg

Dates of Reinspection: 2/2/2022

Homogeneous Sampling Area: \_\_\_\_\_

Material Description: Vinyl Laminat

ID Number: \_\_\_\_\_

REINSPECTION FINDINGS FOR ACBM							MANAGEMENT PLANNER RECOMMENDATIONS		
Description(s) of ACBM by assessment Category	Locations of ACBM by assessment Category	Quantity	Friability	Assessment Category (1-7, X)	Justification of assessment category	Change in Assessment	Preventative measures, response actions, and initial/additional cleanings	Schedule	
								Begin	Complete
Light/Dark Gray (2" x 24") Laminat	Office Conference Rm	270	F (NF)	5	good	YES NO	Added since 2018 inspection		
"	Rm 100	585	F (NF)	5	good	YES NO	"		
"	Rm 106 work Rm	121	F (NF)	5	good	YES NO	"		
"	Rm 106 R.R	23	F (NF)	5	good	YES NO	"		
"	Rm 105	745	F (NF)	5	good	YES NO	"		
"	Rm 104	585	F (NF)	5	good	YES NO	"		
"	Rm 104 work Rm	121	F (NF)	5	good	YES NO	"		
"	Rm 104 R.R	23	F (NF)	5	good	YES NO	"		
"	Rm 103	745	F (NF)	5	good	YES NO	"		
"	MUSIC/Art	1,680	F (NF)	5	good	YES NO	"		
"	Rm 201	850	F (NF)	5	good	YES NO	"		
"	Rm 203	850	F (NF)	5	good	YES NO	"		

Were additional samples of ACBM collected?  YES  NO

Date of Management Planner Review: \_\_\_\_\_

Inspector Name: Zander Cordan  
 Inspector Signature: \_\_\_\_\_  
 Accreditation # / State: ATN0521678071/AL  
 Expirations Date: 5/11/2022

Management Planner Name \_\_\_\_\_  
 Management Planner Signature \_\_\_\_\_  
 Accreditation # / State \_\_\_\_\_  
 Expirations Date \_\_\_\_\_

I, the LEA's Designated Person, have read and understood the recommendations made above: \_\_\_\_\_ Date: \_\_\_\_\_

- ASHERA Assessment Category:
- 1 - Damaged or Significantly damaged
  - 2 - Damaged friable surfacing ACBM
  - 3 - Significantly damaged friable 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
  - X - not applicable (material is non-ACBM or nonfriable surfacing or miscellaneous material)
  - None - No assessment category provided in original inspection.

School: KSE

Building: Main Bldg

Dates of Reinspection: 7/2/2022

Homogeneous Sampling Area: \_\_\_\_\_

Material Description: laminated

ID Number: \_\_\_\_\_

REINSPECTION FINDINGS FOR ACBM							MANAGEMENT PLANNER RECOMMENDATIONS			
Description(s) of ACBM by assessment Category	Locations of ACBM by assessment Category	Quantity	Friability	Assessment Category (1-7, X)	Justification of assessment category	Change in Assessment	Preventative measures, response actions, and initial/additional cleanings	Schedule		
								Begin	Complete	
Light/Dark Gray (12"x24") Laminated	Rm 202	850	F NF	5		YES NO	NOT IN 2019 REPORT. Added AFTER			
"/ / /	Rm 203	850	F NF	5		YES NO		"/ / /		
"/ / /	Rm 204	850	F NF	5		YES NO		"/ / /		
"/ / /	Rm 205	850	F NF	5		YES NO		"/ / /		
"/ / /	Rm 206	850	F NF	5		YES NO		"/ / /		
"/ / /	Rm 207	850	F NF	5		YES NO		"/ / /		
"/ / /	Rm 208	850	F NF	5		YES NO		"/ / /		
"/ / /	Rm 209	850	F NF	5		YES NO		"/ / /		
"/ / /	Rm 212	365'	F NF	5		YES NO		"/ / /		
"/ / /	Rm 213	150	F NF	5	good	YES NO		"/ / /		
"/ / /	Rm 214	365	F NF	5	good	YES NO		"/ / /		
"/ / /	Rm 215	30	F NF	5	good	YES NO		"/ / /		

Were additional samples of ACBM collected?  YES  NO

Date of Management Planner Review: \_\_\_\_\_

Inspector Name: Zander Cordan  
 Inspector Signature: [Signature]  
 Accreditation # / State: AIN0521678071/AL  
 Expirations Date: 5/11/2022

Management Planner Name: \_\_\_\_\_  
 Management Planner Signature: \_\_\_\_\_  
 Accreditation # / State: \_\_\_\_\_  
 Expirations Date: \_\_\_\_\_

I, the LEA's Designated Person, have read and understood the recommendations made above: \_\_\_\_\_ Date: \_\_\_\_\_

- AHERA Assessment Category:**
- 1 - Damaged or Significantly damaged
  - 2 - Damaged friable surfacing ACBM
  - 3 - Significantly damaged friable 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
  - X - not applicable (material is non-ACBM or nonfriable surfacing or miscellaneous material)
  - None - No assessment category provided in original inspection.

School: KSE

Building: Main Bldg

Dates of Reinspection: 9/2/2022

Homogeneous Sampling Area: \_\_\_\_\_

Material Description: Vinyl Laminar

ID Number: \_\_\_\_\_

REINSPECTION FINDINGS FOR ACBM							MANAGEMENT PLANNER RECOMMENDATIONS		
Description(s) of ACBM by assessment Category	Locations of ACBM by assessment Category	Quantity	Friability	Assessment Category (1-7, X)	Justification of assessment category	Change in Assessment	Preventative measures, response actions, and initial/additional cleanings	Schedule	
								Begin	Complete
light / Dark Gray Laminar	Rm 301	800	<del>F</del> NF	5	good	<del>YES</del> NO	Added After Previous Assessment 2019		
" "	Rm 309	300	<del>F</del> NF	5	good	<del>YES</del> NO			
" "	Rm 310	800	<del>F</del> NF	5	good	<del>YES</del> NO			
" "	Rm 313	30	<del>F</del> NF	5	good	<del>YES</del> NO			
" "	Rm 314	305	<del>F</del> NF	5	good	<del>YES</del> NO			
" "	Rm 317	30	<del>F</del> NF	5	good	<del>YES</del> NO			
" "	Rm 318	305	<del>F</del> NF	5	good	<del>YES</del> NO			
Dark Brown Laminar	Rm 300 median center	3,000	<del>F</del> NF	5	good	<del>YES</del> NO			
light / Dark Gray Laminar	Rm 401	815	<del>F</del> NF	5	good	<del>YES</del> NO			
" "	Rm 402	815	<del>F</del> NF	5	good	<del>YES</del> NO			
" "	Rm 403	815	<del>F</del> NF	5	good	<del>YES</del> NO			
" "	Rm 404	815	<del>F</del> NF	5	good	<del>YES</del> NO			

Were additional samples of ACBM collected?  YES  NO

Date of Management Planner Review: \_\_\_\_\_

Inspector Name: Zander Cordan  
 Inspector Signature: \_\_\_\_\_  
 Accreditation # / State: ATN0521678071/AL  
 Expirations Date: 5/11/2022

Management Planner Name \_\_\_\_\_  
 Management Planner Signature \_\_\_\_\_  
 Accreditation # / State \_\_\_\_\_  
 Expirations Date \_\_\_\_\_

I, the LEA's Designated Person, have read and understood the recommendations made above: \_\_\_\_\_ Date: \_\_\_\_\_

- AMERA Assessment Category:
- 1 - Damaged or Significantly damaged
  - 2 - Damaged friable surfacing ACBM
  - 3 - Significantly damaged friable 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
  - X - not applicable (material is non-ACBM or nonfriable surfacing or miscellaneous material)
  - None - No assessment category provided in original inspection.

School: KSE

Building: Main Building

Dates of Reinspection: 2/22/2022

Homogeneous Sampling Area:

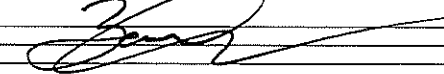
Material Description: laminated

ID Number:

REINSPECTION FINDINGS FOR ACBM							MANAGEMENT PLANNER RECOMMENDATIONS			
Description(s) of ACBM by assessment Category	Locations of ACBM by assessment Category	Quantity	Friability	Assessment Category (1-7, X)	Justification of assessment category	Change in Assessment	Preventative measures, response actions, and Initial/additional cleanings		Schedule	
							Begin	Complete		
light/Dark gray laminate 111	Rm 405	25	F NF	5	good	YES NO	Added after 2019 report			
111	Rm 400	25	F NF	5	good	YES NO	111			
111	Rm 407	25	F NF	5	good	YES NO	111			
111	Rm 408	25	F NF	5	good	YES NO	111			
111	NURSE + OFFICES	800	F NF	5	good	YES NO	111			
111	Rm 411	305	F NF	5	good	YES NO	111			
111	Rm 412	30	F NF	5	good	YES NO	111			
111	Rm 415	30	F NF	5	good	YES NO	111			
111	Rm 416	30	F NF	5	good	YES NO	111			
111	Rm 400	305	F NF	5	good	YES NO	111			
			F NF			YES NO				
			F NF			YES NO				
			F NF			YES NO				
			F NF			YES NO				
			F NF			YES NO				
			F NF			YES NO				
			F NF			YES NO				
			F NF			YES NO				
			F NF			YES NO				
			F NF			YES NO				
			F NF			YES NO				
			F NF			YES NO				

Were additional samples of ACBM collected? YES NO

Date of Management Planner Review:

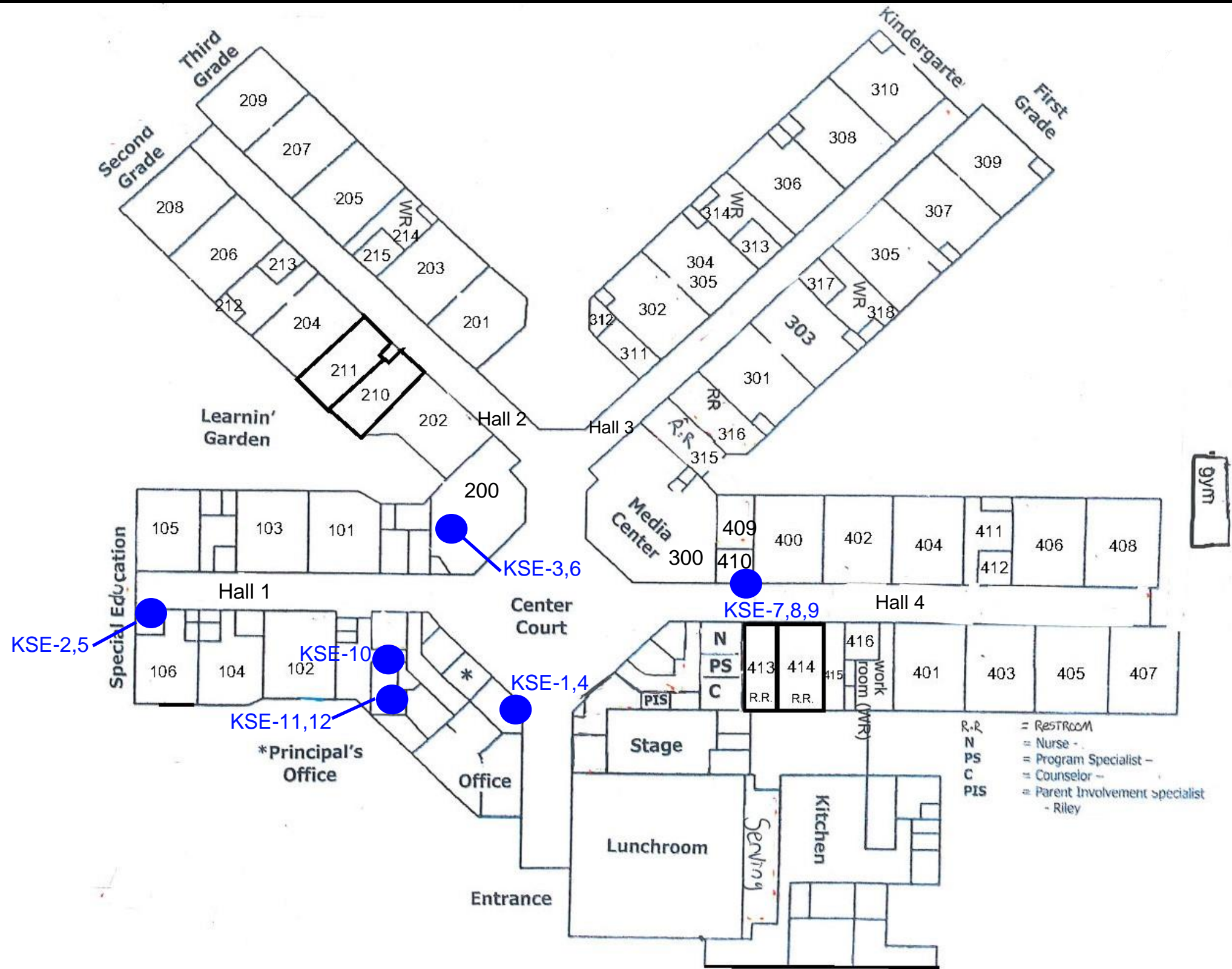
Inspector Name: Zander Cordan  
 Inspector Signature:   
 Accreditation # / State: AIN0521678077/Alabama  
 Expirations Date: 5/11/2022

Management Planner Name \_\_\_\_\_  
 Management Planner Signature \_\_\_\_\_  
 Accreditation # / State \_\_\_\_\_  
 Expirations Date \_\_\_\_\_


I, the LEA's Designated Person, have read and understood the recommendations made above: \_\_\_\_\_ Date: \_\_\_\_\_

- ANER Assessment Categories:
- 1 - Damaged or significantly damaged
  - 2 - Damaged friable surfacing ACBM
  - 3 - Significantly damaged friable 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
  - X - not applicable (material is non-ACBM or nonfriable surfacing or miscellaneous material)
  - None - No assessment category provided in original inspection.

**APPENDIX II**  
**ASBESTOS SAMPLE LOCATION MAP**



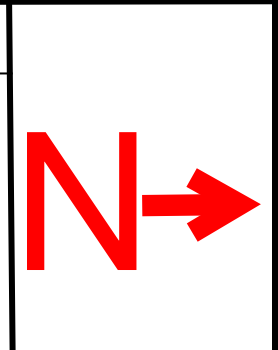
PROJECT NO: Z003001189	
DRAWN BY: ZC	DATE: April 25, 2022
DESIGNED BY: ATLAS	SAMPLE DATE: February 2, 2022

  
**ATLAS**  
 200 WELLINGTON MANOR COURT,  
 SUITE 100  
 ALABASTER, AL 35007

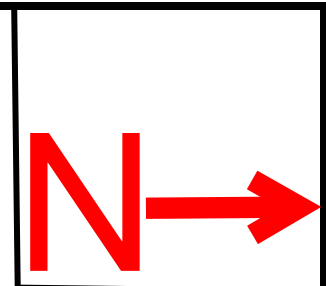
**LIMITED ASBESTOS SURVEY**  
 (Dothan City Schools)  
 Kelly Springs Elementary School (KES)  
 1124 Kelly Springs Road,  
 Dothan, Alabama 36303

**LEGEND**


- = Positive Asbestos (ACM) Sample
- = Negative ACM Sample
- = First Positive Stop (assumed acm)



**APPENDIX III**  
**CURRENT 3-YEAR ASBESTOS CONTAINING BUILDING MATERIALS**  
**SITE MAP**



PROJECT NO: Z003001189	
DRAWN BY: ZC	DATE: April 25, 2022
DESIGNED BY: ATLAS	SAMPLE DATE: February 2, 2022

  
**200 WELLINGTON MANOR COURT,**  
**SUITE 100**  
**ALABASTER, AL 35007**

**AHREA 3-Year Current ACM Site Map**  
**(Dothan City Schools)**  
 Kelly Springs Elementary School (KES)  
 1124 Kelly Springs Road,  
 Dothan, Alabama 36303

**LEGEND**

- = Confirmed asbestos containing (ACM) material
- = No ACM detected
- = Assumed ACM Carpet
- = Assumed Dark Brown LVT Flooring

**APPENDIX IV**  
**PLM SUMMARY REPORT and CHAIN OF CUSTODY**



# ATC Group Services LLC

104 E. 25th Street, 8th Floor  
New York, NY 10010  
Tel. 212-353-8280  
Fax: 212-353-8306

**Client:** ATC GROUP SERVICES - ALABAMA  
200 WELLINGTON MANOR COURT, SUITE 100  
ALABASTER, AL 35007

**Phone:** (205) 733-8775

**Sample Date:** 2/22/2022

**Date Received :** 2/16/2022

**Date Analyzed :** 2/17/2022

**Project:** DOTHAN CITY SCHOOLS AHERA 3-YEAR INSPECTION

**ATC Batch #** 22-286

**Methods:** EPA Interim Method for the Determination of Asbestos in Insulation Samples - 40 CFR Appendix E to Subpart E of Part 763 EPA 600/R-93/116

**Location:** 1124 Kelly Spring Road, Dothan, AL 36303/ Kelly Springs Elementary (KSE)/Main Building Interior

**Project #** Z003001189

## Bulk Asbestos Analysis Results

Sample #	Location	Type of Material	Method	Non-Asbestos		NOB % Type	Asbestos % Type
				% Fibrous	% Non-Fibrous		
KSE-1 22-286 -1	1ST FLOOR CONFERENCE ROOM	GRAY COVE BASE	PLM		10% Mineral Filler 90% Organic Binders 0.0% Vermiculite		NONE DETECTED
		Color: GREY	Comments: NOB RECOMMENDED. COVE BASE				
KSE-1A 22-286 -2	1ST FLOOR CONFERENCE ROOM	YELLOW MASTIC	PLM	Trace% Cellulose	25% Mineral Filler 75% Organic Binders 0.0% Vermiculite		NONE DETECTED
		Color: YELLOW	Comments: NOB RECOMMENDED. MASTIC				
KSE-2 22-286 -3	1ST FLOOR ROOM 106 WORK ROOM	GRAY COVE BASE	PLM		10% Mineral Filler 90% Organic Binders 0.0% Vermiculite		NONE DETECTED
		Color: GREY	Comments: NOB RECOMMENDED. COVE BASE				
KSE-2A 22-286 -4	1ST FLOOR ROOM 106 WORK ROOM	YELLOW MASTIC	PLM	Trace% Cellulose	20% Mineral Filler 80% Organic Binders 0.0% Vermiculite		NONE DETECTED
		Color: YELLOW	Comments: NOB RECOMMENDED. MASTIC				
KSE-3 22-286 -5	1ST FLOOR MUSIC / ART ROOM 200	GRAY COVE BASE	PLM		10% Mineral Filler 90% Organic Binders 0.0% Vermiculite		NONE DETECTED
		Color: GREY	Comments: NOB RECOMMENDED. COVE BASE				
KSE-3A 22-286 -6	1ST FLOOR MUSIC / ART ROOM 200	YELLOW MASTIC	PLM	Trace% Cellulose	25% Mineral Filler 75% Organic Binders 0.0% Vermiculite		NONE DETECTED
		Color: YELLOW	Comments: NOB RECOMMENDED. MASTIC				
KSE-4 22-286 -7	1ST FLOOR CONFERENCE ROOM	LIGHT/DARK GRAY LAMINATE	PLM		20% Mineral Filler 80% Organic Binders 0.0% Vermiculite		NONE DETECTED
		Color: LIGHT GREY	Comments: NOB RECOMMENDED. FLOORING				



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Sample #	Location	Type of Material	Method	<u>Non-Asbestos</u>		<u>NOB</u> % Type	<u>Asbestos</u> % Type
				% Fibrous	% Non-Fibrous		
KSE-4A 22-286 -8	1ST FLOOR CONFERENCE ROOM	YELLOW MASTIC	PLM	Trace% Cellulose	15% Mineral Filler 85% Organic Binders 0.0% Vermiculite		NONE DETECTED
		Color: YELLOW	Comments: NOB RECOMMENDED. MASTIC				
KSE-5 22-286 -9	1ST FLOOR ROOM 106 WORK ROOM	LIGHT/DARK GRAY LAMINATE	PLM		20% Mineral Filler 80% Organic Binders 0.0% Vermiculite		NONE DETECTED
		Color: LIGHT GREY	Comments: NOB RECOMMENDED. FLOORING				
KSE-5A 22-286 -10	1ST FLOOR ROOM 106 WORK ROOM	YELLOW MASTIC	PLM	Trace% Cellulose	15% Mineral Filler 85% Organic Binders 0.0% Vermiculite		NONE DETECTED
		Color: YELLOW	Comments: NOB RECOMMENDED. MASTIC				
KSE-6 22-286 -11	1ST FLOOR MUSIC/ART ROOM 200	LIGHT/DARK GRAY LAMINATE	PLM		20% Mineral Filler 80% Organic Binders 0.0% Vermiculite		NONE DETECTED
		Color: LIGHT GREY	Comments: NOB RECOMMENDED. FLOORING				
KSE-6A 22-286 -12	1ST FLOOR MUSIC/ART ROOM 200	YELLOW MASTIC	PLM	Trace% Cellulose	15% Mineral Filler 85% Organic Binders 0.0% Vermiculite		NONE DETECTED
		Color: YELLOW	Comments: NOB RECOMMENDED. MASTIC				
KSE-7 22-286 -13	1ST FLOOR MEDIA CENTER ROOM 400	DARK GRAY LAMINATE	PLM	Trace% FiberGlass	25% Mineral Filler 75% Organic Binders 0.0% Vermiculite		NONE DETECTED
		Color: BROWN	Comments: NOB RECOMMENDED. FLOORING				
KSE-7A 22-286 -14	1ST FLOOR MEDIA CENTER ROOM 400	YELLOW MASTIC	PLM	Trace% Cellulose	20% Mineral Filler 80% Organic Binders 0.0% Vermiculite		NONE DETECTED
		Color: YELLOW	Comments: NOB RECOMMENDED. MASTIC				
KSE-8 22-286 -15	1ST FLOOR MEDIA CENTER ROOM 400	DARK GRAY LAMINATE	PLM	Trace% FiberGlass	25% Mineral Filler 75% Organic Binders 0.0% Vermiculite		NONE DETECTED
		Color: BROWN	Comments: NOB RECOMMENDED. FLOORING				
KSE-8A 22-286 -16	1ST FLOOR MEDIA CENTER ROOM 400	YELLOW MASTIC	PLM	Trace% Cellulose	20% Mineral Filler 80% Organic Binders 0.0% Vermiculite		NONE DETECTED
		Color: YELLOW	Comments: NOB RECOMMENDED. MASTIC				
KSE-9 22-286 -17	1ST FLOOR MEDIA CENTER ROOM 400	DARK GRAY LAMINATE	PLM	Trace% FiberGlass	25% Mineral Filler 75% Organic Binders 0.0% Vermiculite		NONE DETECTED
		Color: BROWN	Comments: NOB RECOMMENDED. FLOORING				



# ATC Group Services LLC

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New York, NY 10010

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Fax: 212-353-8306

Sample #	Location	Type of Material	Method	Non-Asbestos		NOB % Type	Asbestos % Type
				% Fibrous	% Non-Fibrous		
KSE-9A 22-286 -18	1ST FLOOR MEDIA CENTER ROOM 400	YELLOW MASTIC	PLM	Trace% Cellulose	20% Mineral Filler 80% Organic Binders 0.0% Vermiculite		NONE DETECTED
		Color: YELLOW	Comments: NOB RECOMMENDED. MASTIC				
KSE-10 22-286 -19	1ST FLOOR BREAK ROOM	BLUE COVE BASE	PLM		10% Mineral Filler 90% Organic Binders 0.0% Vermiculite		NONE DETECTED
		Color: BLUE	Comments: NOB RECOMMENDED. COVE BASE				
KSE-10A 22-286 -20	1ST FLOOR BREAK ROOM	YELLOW MASTIC	PLM	Trace% Cellulose	20% Mineral Filler 80% Organic Binders 0.0% Vermiculite		NONE DETECTED
		Color: YELLOW	Comments: NOB RECOMMENDED. MASTIC				
KSE-11 22-286 -21	1ST FLOOR BREAK ROOM	BLUE COVE BASE	PLM		10% Mineral Filler 90% Organic Binders 0.0% Vermiculite		NONE DETECTED
		Color: BLUE	Comments: NOB RECOMMENDED. COVE BASE				
KSE-11A 22-286 -22	1ST FLOOR BREAK ROOM	YELLOW MASTIC	PLM	Trace% Cellulose	20% Mineral Filler 80% Organic Binders 0.0% Vermiculite		NONE DETECTED
		Color: YELLOW	Comments: NOB RECOMMENDED. MASTIC				
KSE-12 22-286 -23	1ST FLOOR BREAK ROOM	BLUE COVE BASE	PLM		10% Mineral Filler 90% Organic Binders 0.0% Vermiculite		NONE DETECTED
		Color: BLUE	Comments: NOB RECOMMENDED. COVE BASE				
KSE-12A 22-286 -24	1ST FLOOR BREAK ROOM	YELLOW MASTIC	PLM	Trace% Cellulose	25% Mineral Filler 75% Organic Binders 0.0% Vermiculite		NONE DETECTED
		Color: YELLOW	Comments: NOB RECOMMENDED. MASTIC				



# ATC Group Services LLC

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New York, NY 10010

Tel. 212-353-8280

Fax: 212-353-8306

Sample #	Location	Type of Material	Method	Non-Asbestos		NOB	Asbestos
				% Fibrous	% Non-Fibrous	% Type	% Type

NOTES:

- 1) The Limit of Detection is the same as the Reporting Limit for these results.
- 2) The Reporting Limit (RL) is the Limit of Quantitation. For point counts the limit of quantitation of 0.25%; based on one asbestos point counter over 400 non-empty points.
- 3) Asbestos Containing Material (ACM) Definition: > 1% asbestos by weight is considered an ACM
- 4) Disclaimer: The laboratory is not responsible for sample collection. Please refer to enclosed letter. This report may not be reproduced, except in full, without written approval by ATC Group Services. This report may not be used to claim product endorsement by NVLAP or any other agency of the U.S. Government. This report relates only to the samples reported above as described in the chain of custody. Quality control data is available upon request.
- 5) Accredited by NVLAP #101187-0 and by NY State ELAP #10879
- 6) Confidentiality Notice: The document(s) contained herein are confidential and privileged information, intended for the exclusive use of the individual or entity named above.
- 7) Liability Notice: ATC Group Services and its personnel shall not be liable for any misinformation provided to us by the client regarding these samples. This report relates only to samples submitted and analyzed.
- 8) Asbestos results are reliable to 2 significant figures.
- 9) The condition of all samples was acceptable upon receipt.
- 10) The laboratory certifies that the test results meet all requirements of NELAC.
- 11) Supplement to test report batch # \_\_\_\_\_. Amendments: \_\_\_\_\_. Amendment Dates: \_\_\_\_\_. Amended by: \_\_\_\_\_
- 12) PLM Letter is attached on this report.
- 13) TRACE: The result is reported as Trace when No points are counted and asbestos is identified. For ELAP Trace is < 1%.
- 14) ATC Group Services certifies that this report is an accurate and authentic report of the results obtained from the laboratory analysis
- 15) The uncertainty for these test results is available upon request.
- 16) ELAP requires method ELAP 198.1 for the analysis of samples containing ≤ 10% vermiculite. For samples containing > 10% vermiculite ELAP requires methods ELAP 198.1 followed by ELAP 198.6. "This method does not remove vermiculite and may underestimate the level of asbestos present in a sample containing greater than 10% vermiculite."

Ivan Reyes

Analyst:

Mei Wang

Approved by  
Quality Manager:



ATC – New York  
 104 East 25<sup>th</sup> Street, 8<sup>th</sup> FL, New York, NY 10010  
 Phone: (212) 353-8280

BATCH NO.  
 22-286

### BULK SAMPLE DATA AND CHAIN OF CUSTODY FORM

#### PROJECT INFORMATION

1. Client: Atlas Technical Corporation (ATC) 200 Wellington Manor Court, Suite 100, Alabaster, Alabama 35007		2. Project Name: Dothan City Schools AHERA 3-year Inspection 2a. Project Address: 1124 Kelly Spring Road, Dothan, AL 36303		3. Project No: Z003001189		4. Project Manager: Stephanie Pryor 4a. Investigator: Zander Cordan		
5. Date: 2/2/2022		6. Building Name: Kelly Springs Elementary (KSE) 7. Sampling Area: Main building Interior		8. Turnaround Time: <input checked="" type="checkbox"/> STAT <input type="checkbox"/> 24 HRS <input type="checkbox"/> 72 HRS <input type="checkbox"/> OTHER <input type="checkbox"/> 5 HRS <input type="checkbox"/> 48 HRS <input type="checkbox"/> NORMAL <input type="checkbox"/> _____			9. Comments (Field): Please do first positive stop	

#### BULK SAMPLE LOCATION

10. Homogenous Area No.	11. Bulk Sample ID No.	12. Material	13. Thermal System	14. Sample Location		15. Material Total Quantity (LF, SF, PCS)	16. Asbestos Content (Type & %)
				Floor	Sample Coordinates		
HA-1	KSE-1	Gray cove base with yellow mastic		1 <sup>st</sup>	Conference room		
HA-1	KSE-2	Gray cove base with yellow mastic		1 <sup>st</sup>	Room 106 Work room		
HA-1	KSE-3	Gray cove base with yellow mastic		1 <sup>st</sup>	Music/Art room 200		
HA-2	KSE-4	Light/dark gray laminate with yellow mastic		1 <sup>st</sup>	Conference room		
HA-2	KSE-5	Light/dark gray laminate with yellow mastic		1 <sup>st</sup>	Room 106 work room		
HA-2	KSE-6	Light/dark gray laminate with yellow mastic		1 <sup>st</sup>	Music/Art room 200		
HA-3	KSE-7	Dark gray laminate with yellow mastic		1 <sup>st</sup>	Media Center room 400		
HA-3	KSE-8	Dark gray laminate with yellow mastic		1 <sup>st</sup>	Media Center room 400		
HA-3	KSE-9	Dark gray laminate with yellow mastic		1 <sup>st</sup>	Media Center room 400		
HA-4	KSE-10	Blue cove base with yellow mastic		1 <sup>st</sup>	Office break room		
HA-4	KSE-11	Blue cove base with yellow mastic		1 <sup>st</sup>	Office break room		
HA-4	KSE-12	Blue cove base with yellow mastic		1 <sup>st</sup>	Office break room		

#### CHAIN OF CUSTODY

17. Relinquished by: 	18. Date: 2/14/2022	19. Time: 5:00	20. Received by: 	21. Date: 2/16/2022	22. Time: 11:33am	23. Method of Submittal:	
I						FIELD	
II						WALK IN	
III						US MAIL	
						FED EX	X
						OTHER _____	

#### LAB INFORMATION

24. Name and Signature: 	25. Date: 2/17/2022	26. Time: 10:52am	27. Comments (Lab):
24a. Analyzed by:			
24b. Analyzed by:			
24c. Analyzed by:			
24d. QC by:			

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BULK ASBESTOS ANALYSIS SHEET

Client / Project ATC ALABAMA/ 1124 KELLY SPRING RD Project Number Z003001189  
Analysis Date 02/17/22 Analyst IR Batch Number 22-286 TEMPERATURE °C 25

Field Number	Stereoscopic Exam		PLM Optical Properties										Asbestos Results PLM %	Other Fibrous PLM %	Non Fibrous PLM %
1	Color <u>Grey</u> Texture <u>NR</u>	Morph Extinction RI I RI II DS Color Color, Pleo Biref Sign Other Identity											Chrysotile	Cellulose	10 Mineral Filler
Required <input type="checkbox"/>	Homogeneity <u>4</u> Vermiculite <u>0</u>											Amosite	Fiberglass	90 Organic Binders	
Recommended <input checked="" type="checkbox"/>	# of Layers <u>4</u> Asbestos <u>0</u>											Other	Other	0 Vermiculite*	
See gravimetric analysis sheet for results	Color of Layer <u>  </u> Detected Yes No													Other	
SM-V	Point Counts	Slide 1	Slide 2	Slide 3	Slide 4	Slide 5	Slide 6	Slide 7	Slide 8	Asb./Ver. PT	Total PT	%Asb. Or %Ver.			
Required <input type="checkbox"/>	PLM	<u>0/0</u>								<u>0/0</u>	<u>0</u>	<u>0</u>			
See SM-V analysis sheet for results	NOB PLM														
Comments: <u>Corebase</u>															
Method: <input type="checkbox"/> ELAP <input checked="" type="checkbox"/> EPA <input type="checkbox"/> SCANNING OPTION Q.C. <input type="checkbox"/>															

Field Number	Stereoscopic Exam		PLM Optical Properties										Asbestos Results PLM %	Other Fibrous PLM %	Non Fibrous PLM %
2	Color <u>Yellow</u> Texture <u>NR</u>	Morph Extinction RI I RI II DS Color Color, Pleo Biref Sign Other Identity											Chrysotile	Cellulose	25 Mineral Filler
Required <input type="checkbox"/>	Homogeneity <u>7</u> Vermiculite <u>0</u>											Amosite	Fiberglass	70 Organic Binders	
Recommended <input checked="" type="checkbox"/>	# of Layers <u>7</u> Asbestos <u>0</u>											Other	Other	0 Vermiculite*	
See gravimetric analysis sheet for results	Color of Layer <u>  </u> Detected Yes No													Other	
SM-V	Point Counts	Slide 1	Slide 2	Slide 3	Slide 4	Slide 5	Slide 6	Slide 7	Slide 8	Asb./Ver. PT	Total PT	%Asb. Or %Ver.			
Required <input type="checkbox"/>	PLM	<u>0/0</u>								<u>0/0</u>	<u>0</u>	<u>0</u>			
See SM-V analysis sheet for results	NOB PLM														
Comments: <u>Mastic</u>															
Method: <input type="checkbox"/> ELAP <input checked="" type="checkbox"/> EPA <input type="checkbox"/> SCANNING OPTION Q.C. <input type="checkbox"/>															

Field Number	Stereoscopic Exam		PLM Optical Properties										Asbestos Results PLM %	Other Fibrous PLM %	Non Fibrous PLM %
3	Color <u>Grey</u> Texture <u>NR</u>	Morph Extinction RI I RI II DS Color Color, Pleo Biref Sign Other Identity											Chrysotile	Cellulose	10 Mineral Filler
Required <input type="checkbox"/>	Homogeneity <u>9</u> Vermiculite <u>0</u>											Amosite	Fiberglass	90 Organic Binders	
Recommended <input checked="" type="checkbox"/>	# of Layers <u>9</u> Asbestos <u>0</u>											Other	Other	0 Vermiculite*	
See gravimetric analysis sheet for results	Color of Layer <u>  </u> Detected Yes No													Other	
SM-V	Point Counts	Slide 1	Slide 2	Slide 3	Slide 4	Slide 5	Slide 6	Slide 7	Slide 8	Asb./Ver. PT	Total PT	%Asb. Or %Ver.			
Required <input type="checkbox"/>	PLM	<u>0/0</u>								<u>0/0</u>	<u>0</u>	<u>0</u>			
See SM-V analysis sheet for results	NOB PLM														
Comments: <u>Corebase</u>															
Method: <input type="checkbox"/> ELAP <input checked="" type="checkbox"/> EPA <input type="checkbox"/> SCANNING OPTION Q.C. <input type="checkbox"/>															

Field Number	Stereoscopic Exam		PLM Optical Properties										Asbestos Results PLM %	Other Fibrous PLM %	Non Fibrous PLM %
4	Color <u>Yellow</u> Texture <u>NR</u>	Morph Extinction RI I RI II DS Color Color, Pleo Biref Sign Other Identity											Chrysotile	Cellulose	20 Mineral Filler
Required <input type="checkbox"/>	Homogeneity <u>7</u> Vermiculite <u>0</u>											Amosite	Fiberglass	80 Organic Binders	
Recommended <input checked="" type="checkbox"/>	# of Layers <u>7</u> Asbestos <u>0</u>											Other	Other	0 Vermiculite*	
See gravimetric analysis sheet for results	Color of Layer <u>  </u> Detected Yes No													Other	
SM-V	Point Counts	Slide 1	Slide 2	Slide 3	Slide 4	Slide 5	Slide 6	Slide 7	Slide 8	Asb./Ver. PT	Total PT	%Asb. Or %Ver.			
Required <input type="checkbox"/>	PLM	<u>0/0</u>								<u>0/0</u>	<u>0</u>	<u>0</u>			
See SM-V analysis sheet for results	NOB PLM														
Comments: <u>Mastic</u>															
Method: <input type="checkbox"/> ELAP <input checked="" type="checkbox"/> EPA <input type="checkbox"/> SCANNING OPTION Q.C. <input type="checkbox"/>															

Methods:  
EPA Interim Method of the Determination of Asbestos in Bulk Insulation Samples - 40 CFR Appendix E to Subpart E of Part 763  
EPA 600/R-93/116  
ELAP Items 198.1, 198.4, 198.6, 198.8

THIS DOCUMENT OR FORM IS UNCONTROLLED WHEN PRINTED  
Note #1: ELAP requires method ELAP 198.1 for the analysis of samples containing ≤10% vermiculite, with the exception of surfacing material that contains vermiculite (SM-V). For samples containing >10% vermiculite ELAP requires methods ELAP 198.1 followed by ELAP 198.5. This method has limitations for identification and quantification of vermiculite. \*This method does not remove vermiculite and may underestimate the level of asbestos present in a sample containing greater than 10% vermiculite.\*  
Note #2: ELAP requires method 198.8 for the analysis of surfacing material containing vermiculite (SM-V) and it utilizes a 400 point count method.

BULK ASBESTOS ANALYSIS SHEET

Client / Project ATC ALABAMA/ 1124 KELLY SPRING RD Project Number Z003001189  
Analysis Date 02/17/22 Analyst IR Batch Number 22-286

TEMPERATURE °C 28

1 3	Stereoscopic Exam		PLM Optical Properties										Asbestos Results PLM %	Other Fibrous PLM %	Non Fibrous PLM %
Gravimetric	Color <u>Grey</u> Texture <u>NR</u>	Morph Extinction RI I RI II DS Color Color, Pleo Biref Sign Other Identity											Chrysotile	Cellulose	10 Mineral Filler
Required <input type="checkbox"/>	Homogeneity <u>4</u> Vermiculite <u>0</u>											Amosite	Fiberglass	90 Organic Binders	
Recommended <input type="checkbox"/>	# of Layers <u>1</u> Asbestos <u>0</u>											Other	Other	0 Vermiculite*	
See gravimetric analysis sheet for results	Color of Layer Detected Yes No													Other	
SM-V	Point Counts	Slide 1	Slide 2	Slide 3	Slide 4	Slide 5	Slide 6	Slide 7	Slide 8	Asb./Ver. PT	Total PT	%Asb. Or %Ver.			
Required <input type="checkbox"/>	PLM <u>low</u>									0	40	0			
See SM-V analysis sheet for results	NOB PLM														
Comments: <u>Coyebare</u>															
Method: <input type="checkbox"/> ELAP <input checked="" type="checkbox"/> EPA <input type="checkbox"/> SCANNING OPTION												Q.C. <input type="checkbox"/>			

2 3A	Stereoscopic Exam		PLM Optical Properties										Asbestos Results PLM %	Other Fibrous PLM %	Non Fibrous PLM %
Gravimetric	Color <u>Yellow</u> Texture <u>NR</u>	Morph Extinction RI I RI II DS Color Color, Pleo Biref Sign Other Identity											Chrysotile	Cellulose	25 Mineral Filler
Required <input type="checkbox"/>	Homogeneity <u>4</u> Vermiculite <u>0</u>											Amosite	Fiberglass	75 Organic Binders	
Recommended <input type="checkbox"/>	# of Layers <u>1</u> Asbestos <u>0</u>											Other	Other	0 Vermiculite*	
See gravimetric analysis sheet for results	Color of Layer Detected Yes No													Other	
SM-V	Point Counts	Slide 1	Slide 2	Slide 3	Slide 4	Slide 5	Slide 6	Slide 7	Slide 8	Asb./Ver. PT	Total PT	%Asb. Or %Ver.			
Required <input type="checkbox"/>	PLM <u>low</u>									0	40	0			
See SM-V analysis sheet for results	NOB PLM														
Comments: <u>Mastic</u>															
Method: <input type="checkbox"/> ELAP <input checked="" type="checkbox"/> EPA <input type="checkbox"/> SCANNING OPTION												Q.C. <input type="checkbox"/>			

3 4	Stereoscopic Exam		PLM Optical Properties										Asbestos Results PLM %	Other Fibrous PLM %	Non Fibrous PLM %
Gravimetric	Color <u>LT. grey</u> Texture <u>NR</u>	Morph Extinction RI I RI II DS Color Color, Pleo Biref Sign Other Identity											Chrysotile	Cellulose	20 Mineral Filler
Required <input type="checkbox"/>	Homogeneity <u>4</u> Vermiculite <u>0</u>											Amosite	Fiberglass	80 Organic Binders	
Recommended <input type="checkbox"/>	# of Layers <u>1</u> Asbestos <u>0</u>											Other	Other	0 Vermiculite*	
See gravimetric analysis sheet for results	Color of Layer Detected Yes No													Other	
SM-V	Point Counts	Slide 1	Slide 2	Slide 3	Slide 4	Slide 5	Slide 6	Slide 7	Slide 8	Asb./Ver. PT	Total PT	%Asb. Or %Ver.			
Required <input type="checkbox"/>	PLM <u>low</u>									0	40	0			
See SM-V analysis sheet for results	NOB PLM														
Comments: <u>Fiberglass</u>															
Method: <input type="checkbox"/> ELAP <input checked="" type="checkbox"/> EPA <input type="checkbox"/> SCANNING OPTION												Q.C. <input type="checkbox"/>			

4 4A	Stereoscopic Exam		PLM Optical Properties										Asbestos Results PLM %	Other Fibrous PLM %	Non Fibrous PLM %
Gravimetric	Color <u>Yellow</u> Texture <u>NR</u>	Morph Extinction RI I RI II DS Color Color, Pleo Biref Sign Other Identity											Chrysotile	Cellulose	15 Mineral Filler
Required <input type="checkbox"/>	Homogeneity <u>4</u> Vermiculite <u>0</u>											Amosite	Fiberglass	85 Organic Binders	
Recommended <input type="checkbox"/>	# of Layers <u>1</u> Asbestos <u>0</u>											Other	Other	0 Vermiculite*	
See gravimetric analysis sheet for results	Color of Layer Detected Yes No													Other	
SM-V	Point Counts	Slide 1	Slide 2	Slide 3	Slide 4	Slide 5	Slide 6	Slide 7	Slide 8	Asb./Ver. PT	Total PT	%Asb. Or %Ver.			
Required <input type="checkbox"/>	PLM <u>low</u>									0	40	0			
See SM-V analysis sheet for results	NOB PLM														
Comments: <u>Mastic</u>															
Method: <input type="checkbox"/> ELAP <input checked="" type="checkbox"/> EPA <input type="checkbox"/> SCANNING OPTION												Q.C. <input type="checkbox"/>			

Methods:  
EPA Interim Method of the Determination of Asbestos in Bulk Insulation Samples - 40 CFR Appendix E to Subpart E of Part 763  
EPA 600/R-93/116  
ELAP Items 198.1, 198.4, 198.6, 198.8

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Note #1: ELAP requires method ELAP 198.1 for the analysis of samples containing ≤10% vermiculite, with the exception of surfacing material that contains vermiculite (SM-V). For samples containing >10% vermiculite ELAP requires methods ELAP 198.1 followed by ELAP 198.6. This method has limitations for identification and quantification of vermiculite. \*This method does not remove vermiculite and may underestimate the level of asbestos present in a sample containing greater than 10% vermiculite.\*  
Note #2: ELAP requires method 198.8 for the analysis of surfacing material containing vermiculite (SM-V) and it utilizes a 400 point count method.  
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ATC EFFECTIVE DATE 01/25/2022 REVISION #34 BY MEI WANG FORM #62

BULK ASBESTOS ANALYSIS SHEET

Client / Project ATC ALABAMA/ 1124 KELLY SPRING RD Project Number Z003001189  
Analysis Date 02/17/22 Analyst IR Batch Number 22-286

TEMPERATURE °C 25

1 5	Stereoscopic Exam		PLM Optical Properties								Asbestos Results PLM %	Other Fibrous PLM %	Non Fibrous PLM %			
Field Number	Color <u>lt grey</u> Texture <u>NR</u>		Morph	Extinction	RI 1	RI 2	DS	Color	Color, Pleo	Biref	Sign	Other	Identity	Chrysotile	Cellulose	20 Mineral Filler
Gravimetric Required <input type="checkbox"/>	Homogeneity <u>7</u>	Vermiculite <u>0</u>												Amosite	Fiberglass	80 Organic Binders
Recommended <input checked="" type="checkbox"/>	# of Layers <u>7</u>	Asbestos <u>0</u>												Other	Other	Vermiculite*
See gravimetric analysis sheet for results	Color of Layer <u>  </u> Detected Yes No													<input type="checkbox"/> Cellulose Ondulose Extinction <input type="checkbox"/> Fiberglass Isotropic <input type="checkbox"/> Synthetic High Birefringence <input type="checkbox"/> Horse Hair: Scales, Low to Moderate Birefringence		
SM-V	Point Counts	Slide 1	Slide 2	Slide 3	Slide 4	Slide 5	Slide 6	Slide 7	Slide 8	Asb./Ver. PT	Total PT	%Asb. Or %Ver.				
Required <input type="checkbox"/>	PLM	<u>0 400</u>										0				
See SM-V analysis sheet for results	NOB PLM															
Comments: <u>Flooring</u>																
Method: <input type="checkbox"/> ELAP <input checked="" type="checkbox"/> EPA <input type="checkbox"/> SCANNING OPTION Q.C. <input type="checkbox"/>																

2 SA	Stereoscopic Exam		PLM Optical Properties								Asbestos Results PLM %	Other Fibrous PLM %	Non Fibrous PLM %			
Field Number	Color <u>Yellow</u> Texture <u>NR</u>		Morph	Extinction	RI 1	RI 2	DS	Color	Color, Pleo	Biref	Sign	Other	Identity	Chrysotile	Cellulose	15 Mineral Filler
Gravimetric Required <input type="checkbox"/>	Homogeneity <u>7</u>	Vermiculite <u>0</u>												Amosite	Fiberglass	85 Organic Binders
Recommended <input checked="" type="checkbox"/>	# of Layers <u>7</u>	Asbestos <u>0</u>												Other	Other	Vermiculite*
See gravimetric analysis sheet for results	Color of Layer <u>  </u> Detected Yes No													<input type="checkbox"/> Cellulose Ondulose Extinction <input type="checkbox"/> Fiberglass Isotropic <input type="checkbox"/> Synthetic High Birefringence <input type="checkbox"/> Horse Hair: Scales, Low to Moderate Birefringence		
SM-V	Point Counts	Slide 1	Slide 2	Slide 3	Slide 4	Slide 5	Slide 6	Slide 7	Slide 8	Asb./Ver. PT	Total PT	%Asb. Or %Ver.				
Required <input type="checkbox"/>	PLM	<u>0 400</u>										0				
See SM-V analysis sheet for results	NOB PLM															
Comments: <u>Mastic</u>																
Method: <input type="checkbox"/> ELAP <input checked="" type="checkbox"/> EPA <input type="checkbox"/> SCANNING OPTION Q.C. <input type="checkbox"/>																

3 6	Stereoscopic Exam		PLM Optical Properties								Asbestos Results PLM %	Other Fibrous PLM %	Non Fibrous PLM %			
Field Number	Color <u>lt grey</u> Texture <u>NR</u>		Morph	Extinction	RI 1	RI 2	DS	Color	Color, Pleo	Biref	Sign	Other	Identity	Chrysotile	Cellulose	20 Mineral Filler
Gravimetric Required <input type="checkbox"/>	Homogeneity <u>7</u>	Vermiculite <u>0</u>												Amosite	Fiberglass	80 Organic Binders
Recommended <input checked="" type="checkbox"/>	# of Layers <u>7</u>	Asbestos <u>0</u>												Other	Other	Vermiculite*
See gravimetric analysis sheet for results	Color of Layer <u>  </u> Detected Yes No													<input type="checkbox"/> Cellulose Ondulose Extinction <input type="checkbox"/> Fiberglass Isotropic <input type="checkbox"/> Synthetic High Birefringence <input type="checkbox"/> Horse Hair: Scales, Low to Moderate Birefringence		
SM-V	Point Counts	Slide 1	Slide 2	Slide 3	Slide 4	Slide 5	Slide 6	Slide 7	Slide 8	Asb./Ver. PT	Total PT	%Asb. Or %Ver.				
Required <input type="checkbox"/>	PLM	<u>0 400</u>										0				
See SM-V analysis sheet for results	NOB PLM															
Comments: <u>Flooring</u>																
Method: <input type="checkbox"/> ELAP <input checked="" type="checkbox"/> EPA <input type="checkbox"/> SCANNING OPTION Q.C. <input type="checkbox"/>																

4 GA	Stereoscopic Exam		PLM Optical Properties								Asbestos Results PLM %	Other Fibrous PLM %	Non Fibrous PLM %			
Field Number	Color <u>Yellow</u> Texture <u>NR</u>		Morph	Extinction	RI 1	RI 2	DS	Color	Color, Pleo	Biref	Sign	Other	Identity	Chrysotile	Cellulose	15 Mineral Filler
Gravimetric Required <input type="checkbox"/>	Homogeneity <u>7</u>	Vermiculite <u>0</u>												Amosite	Fiberglass	85 Organic Binders
Recommended <input checked="" type="checkbox"/>	# of Layers <u>7</u>	Asbestos <u>0</u>												Other	Other	Vermiculite*
See gravimetric analysis sheet for results	Color of Layer <u>  </u> Detected Yes No													<input checked="" type="checkbox"/> Cellulose Ondulose Extinction <input type="checkbox"/> Fiberglass Isotropic <input type="checkbox"/> Synthetic High Birefringence <input type="checkbox"/> Horse Hair: Scales, Low to Moderate Birefringence		
SM-V	Point Counts	Slide 1	Slide 2	Slide 3	Slide 4	Slide 5	Slide 6	Slide 7	Slide 8	Asb./Ver. PT	Total PT	%Asb. Or %Ver.				
Required <input type="checkbox"/>	PLM	<u>0 400</u>										0				
See SM-V analysis sheet for results	NOB PLM															
Comments: <u>Mastic</u>																
Method: <input type="checkbox"/> ELAP <input checked="" type="checkbox"/> EPA <input type="checkbox"/> SCANNING OPTION Q.C. <input type="checkbox"/>																

Methods: EPA Interim Method of the Determination of Asbestos in Bulk Insulation Samples - 40 CFR Appendix E to Subpart E of Part 763 EPA 800/R-93/116 ELAP Items 198.1, 198.4, 198.6, 198.8

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ATC EFFECTIVE DATE 01/25/2022 REVISION #34 BY MEI WANG FORM #B2

BULK ASBESTOS ANALYSIS SHEET

Client / Project ATC ALABAMA/ 1124 KELLY SPRING RD Project Number Z003001189  
Analysis Date 02/17/22 Analyst IR Batch Number 22-286

TEMPERATURE °C 25

1 7	Stereoscopic Exam		PLM Optical Properties										Asbestos Results PLM %	Other Fibrous PLM %	Non Fibrous PLM %
Field Number	Color <u>Brown</u> Texture <u>NR</u>	Morph Extinction RI I RI II DS Color Color, Pleo Biref Sign Other Identity											Chrysotile	Cellulose	25 Mineral Filler
Gravimetric Required <input type="checkbox"/>	Homogeneity <u>4</u> Vermiculite <u>6</u>											Amosite	Fiberglass	75 Organic Binders	
Recommended <input type="checkbox"/>	# of Layers <u>1</u> Asbestos <u>2</u>											Other	Other	0 Vermiculite*	
See gravimetric analysis sheet for results	Color of Layer <u>  </u> Detected Yes No											<input type="checkbox"/> Cellulose Ondulose Extinction <input type="checkbox"/> Fiberglass Isotropic <input type="checkbox"/> Synthetic High Birefringence <input type="checkbox"/> Horse Hair: Scales, Low to Moderate Birefringence			
SM-V	Point Counts	Slide 1	Slide 2	Slide 3	Slide 4	Slide 5	Slide 6	Slide 7	Slide 8	Asb./Ver. PT	Total PT	%Asb. Or %Ver.	<input type="checkbox"/> Cellulose Ondulose Extinction <input type="checkbox"/> Fiberglass Isotropic <input type="checkbox"/> Synthetic High Birefringence <input type="checkbox"/> Horse Hair: Scales, Low to Moderate Birefringence		
Required <input type="checkbox"/>	PLM	<u>0 100 0</u>										* If vermiculite is >10% the level of asbestos in a sample might be underestimated. See Note #1.			
See SM-V analysis sheet for results	NOB PLM	<u>0 100 0</u>													
Comments: <u>Flooring</u>															
Method: <input type="checkbox"/> ELAP <input type="checkbox"/> EPA <input checked="" type="checkbox"/> SCANNING OPTION													Q.C. <input type="checkbox"/>		

2 7A	Stereoscopic Exam		PLM Optical Properties										Asbestos Results PLM %	Other Fibrous PLM %	Non Fibrous PLM %
Field Number	Color <u>Yellow</u> Texture <u>NR</u>	Morph Extinction RI I RI II DS Color Color, Pleo Biref Sign Other Identity											Chrysotile	Cellulose	20 Mineral Filler
Gravimetric Required <input type="checkbox"/>	Homogeneity <u>7</u> Vermiculite <u>0</u>											Amosite	Fiberglass	80 Organic Binders	
Recommended <input type="checkbox"/>	# of Layers <u>1</u> Asbestos <u>0</u>											Other	Other	0 Vermiculite*	
See gravimetric analysis sheet for results	Color of Layer <u>  </u> Detected Yes No											<input checked="" type="checkbox"/> Cellulose Ondulose Extinction <input type="checkbox"/> Fiberglass Isotropic <input type="checkbox"/> Synthetic High Birefringence <input type="checkbox"/> Horse Hair: Scales, Low to Moderate Birefringence			
SM-V	Point Counts	Slide 1	Slide 2	Slide 3	Slide 4	Slide 5	Slide 6	Slide 7	Slide 8	Asb./Ver. PT	Total PT	%Asb. Or %Ver.	<input type="checkbox"/> Cellulose Ondulose Extinction <input type="checkbox"/> Fiberglass Isotropic <input type="checkbox"/> Synthetic High Birefringence <input type="checkbox"/> Horse Hair: Scales, Low to Moderate Birefringence		
Required <input type="checkbox"/>	PLM	<u>0 100 0</u>										* If vermiculite is >10% the level of asbestos in a sample might be underestimated. See Note #1.			
See SM-V analysis sheet for results	NOB PLM	<u>0 100 0</u>													
Comments: <u>Mastic</u>															
Method: <input type="checkbox"/> ELAP <input type="checkbox"/> EPA <input type="checkbox"/> SCANNING OPTION													Q.C. <input type="checkbox"/>		

3 8	Stereoscopic Exam		PLM Optical Properties										Asbestos Results PLM %	Other Fibrous PLM %	Non Fibrous PLM %
Field Number	Color <u>Brown</u> Texture <u>NR</u>	Morph Extinction RI I RI II DS Color Color, Pleo Biref Sign Other Identity											Chrysotile	Cellulose	25 Mineral Filler
Gravimetric Required <input type="checkbox"/>	Homogeneity <u>4</u> Vermiculite <u>0</u>											Amosite	Fiberglass	75 Organic Binders	
Recommended <input checked="" type="checkbox"/>	# of Layers <u>1</u> Asbestos <u>2</u>											Other	Other	0 Vermiculite*	
See gravimetric analysis sheet for results	Color of Layer <u>  </u> Detected Yes No											<input type="checkbox"/> Cellulose Ondulose Extinction <input type="checkbox"/> Fiberglass Isotropic <input type="checkbox"/> Synthetic High Birefringence <input type="checkbox"/> Horse Hair: Scales, Low to Moderate Birefringence			
SM-V	Point Counts	Slide 1	Slide 2	Slide 3	Slide 4	Slide 5	Slide 6	Slide 7	Slide 8	Asb./Ver. PT	Total PT	%Asb. Or %Ver.	<input type="checkbox"/> Cellulose Ondulose Extinction <input type="checkbox"/> Fiberglass Isotropic <input type="checkbox"/> Synthetic High Birefringence <input type="checkbox"/> Horse Hair: Scales, Low to Moderate Birefringence		
Required <input type="checkbox"/>	PLM	<u>0 100 0</u>										* If vermiculite is >10% the level of asbestos in a sample might be underestimated. See Note #1.			
See SM-V analysis sheet for results	NOB PLM	<u>0 100 0</u>													
Comments: <u>Flooring</u>															
Method: <input type="checkbox"/> ELAP <input checked="" type="checkbox"/> EPA <input type="checkbox"/> SCANNING OPTION													Q.C. <input type="checkbox"/>		

4 8A	Stereoscopic Exam		PLM Optical Properties										Asbestos Results PLM %	Other Fibrous PLM %	Non Fibrous PLM %
Field Number	Color <u>Yellow</u> Texture <u>NR</u>	Morph Extinction RI I RI II DS Color Color, Pleo Biref Sign Other Identity											Chrysotile	Cellulose	20 Mineral Filler
Gravimetric Required <input type="checkbox"/>	Homogeneity <u>7</u> Vermiculite <u>0</u>											Amosite	Fiberglass	80 Organic Binders	
Recommended <input type="checkbox"/>	# of Layers <u>1</u> Asbestos <u>2</u>											Other	Other	0 Vermiculite*	
See gravimetric analysis sheet for results	Color of Layer <u>  </u> Detected Yes No											<input checked="" type="checkbox"/> Cellulose Ondulose Extinction <input type="checkbox"/> Fiberglass Isotropic <input type="checkbox"/> Synthetic High Birefringence <input type="checkbox"/> Horse Hair: Scales, Low to Moderate Birefringence			
SM-V	Point Counts	Slide 1	Slide 2	Slide 3	Slide 4	Slide 5	Slide 6	Slide 7	Slide 8	Asb./Ver. PT	Total PT	%Asb. Or %Ver.	<input type="checkbox"/> Cellulose Ondulose Extinction <input type="checkbox"/> Fiberglass Isotropic <input type="checkbox"/> Synthetic High Birefringence <input type="checkbox"/> Horse Hair: Scales, Low to Moderate Birefringence		
Required <input type="checkbox"/>	PLM	<u>0 100 0</u>										* If vermiculite is >10% the level of asbestos in a sample might be underestimated. See Note #1.			
See SM-V analysis sheet for results	NOB PLM	<u>0 100 0</u>													
Comments: <u>Mastic</u>															
Method: <input type="checkbox"/> ELAP <input checked="" type="checkbox"/> EPA <input type="checkbox"/> SCANNING OPTION													Q.C. <input type="checkbox"/>		

Methods:  
EPA Interim Method of the Determination of Asbestos in Bulk Insulation Samples - 40 CFR Appendix E to Subpart E of Part 763  
EPA 600/R-93/116  
ELAP Items 198.1, 198.4, 198.6, 198.8

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 Note #1: ELAP requires method ELAP 198.1 for the analysis of samples containing ≤10% vermiculite, with the exception of surfacing material that contains vermiculite (SM-V). For samples containing >10% vermiculite ELAP requires methods ELAP 198.1 followed by ELAP 198.6. This method has limitations for identification and quantification of vermiculite. This method does not remove vermiculite and may underestimate the level of asbestos present in a sample containing greater than 10% vermiculite.  
 Note #2: ELAP requires method 198.8 for the analysis of surfacing material containing vermiculite (SM-V) and it utilizes a 400 point count method.  
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 ATC EFFECTIVE DATE 01/25/2022 REVISION #34 BY MEI WANG FORM #B2

BULK ASBESTOS ANALYSIS SHEET

Client / Project ATC ALABAMA/ 1124 KELLY SPRING RD Project Number Z003001189  
Analysis Date 02/17/22 Analyst IR Batch Number 22-286 TEMPERATURE °C 25

1 9	Stereoscopic Exam		PLM Optical Properties										Asbestos Results PLM %	Other Fibrous PLM %	Non Fibrous PLM %		
Field Number	Color <u>Brown</u>	Texture <u>NP</u>	Morph	Extinction	RI 1	RI 2	DS Color	Color, Pleo	Biref	Sign	Other	Identity	Chrysotile	Cellulose	Mineral Filler		
Gravimetric	Homogeneity <u>9</u>	Vermiculite <u>0</u>											Amosite	Fiberglass	Organic Binders		
Required <input type="checkbox"/>	# of Layers	Asbestos <u>0</u>											Other	Other	Vermiculite*		
Recommended <input type="checkbox"/>	Color of Layer	Detected	Yes	No											<input type="checkbox"/> Cellulose Ondulose Extinction <input checked="" type="checkbox"/> Fiberglass Isotopic <input type="checkbox"/> Synthetic High Birefringence <input type="checkbox"/> Horse Hair: Scales, Low to Moderate Birefringence		
See gravimetric analysis sheet for results	SM-V	Point Counts	Slide 1	Slide 2	Slide 3	Slide 4	Slide 5	Slide 6	Slide 7	Slide 8	Asb./Ver. PT	Total PT	%Asb. Or %Ver.	* If vermiculite is >10% the level of asbestos in a sample might be underestimated. See Note #1.			
	Required <input type="checkbox"/>	PLM	<u>0</u>	<u>0</u>							<u>0</u>	<u>40</u>	<u>0</u>				
	See SM-V analysis sheet for results	NOB PLM															
	Comments: <u>Fiberglass</u>																
	Method: <input type="checkbox"/> ELAP <input checked="" type="checkbox"/> EPA <input type="checkbox"/> SCANNING OPTION												Q.C. <input type="checkbox"/>				

2 9A	Stereoscopic Exam		PLM Optical Properties										Asbestos Results PLM %	Other Fibrous PLM %	Non Fibrous PLM %		
Field Number	Color <u>Yellow</u>	Texture <u>NP</u>	Morph	Extinction	RI 1	RI 2	DS Color	Color, Pleo	Biref	Sign	Other	Identity	Chrysotile	Cellulose	Mineral Filler		
Gravimetric	Homogeneity <u>9</u>	Vermiculite <u>0</u>											Amosite	Fiberglass	Organic Binders		
Required <input type="checkbox"/>	# of Layers	Asbestos <u>0</u>											Other	Other	Vermiculite*		
Recommended <input type="checkbox"/>	Color of Layer	Detected	Yes	No											<input checked="" type="checkbox"/> Cellulose Ondulose Extinction <input type="checkbox"/> Fiberglass Isotopic <input type="checkbox"/> Synthetic High Birefringence <input type="checkbox"/> Horse Hair: Scales, Low to Moderate Birefringence		
See gravimetric analysis sheet for results	SM-V	Point Counts	Slide 1	Slide 2	Slide 3	Slide 4	Slide 5	Slide 6	Slide 7	Slide 8	Asb./Ver. PT	Total PT	%Asb. Or %Ver.	* If vermiculite is >10% the level of asbestos in a sample might be underestimated. See Note #1.			
	Required <input type="checkbox"/>	PLM	<u>0</u>	<u>0</u>							<u>0</u>	<u>40</u>	<u>0</u>				
	See SM-V analysis sheet for results	NOB PLM															
	Comments: <u>Mastic</u>																
	Method: <input type="checkbox"/> ELAP <input checked="" type="checkbox"/> EPA <input type="checkbox"/> SCANNING OPTION												Q.C. <input type="checkbox"/>				

3 10	Stereoscopic Exam		PLM Optical Properties										Asbestos Results PLM %	Other Fibrous PLM %	Non Fibrous PLM %		
Field Number	Color <u>Blue</u>	Texture <u>NP</u>	Morph	Extinction	RI 1	RI 2	DS Color	Color, Pleo	Biref	Sign	Other	Identity	Chrysotile	Cellulose	Mineral Filler		
Gravimetric	Homogeneity <u>9</u>	Vermiculite <u>0</u>											Amosite	Fiberglass	Organic Binders		
Required <input type="checkbox"/>	# of Layers	Asbestos <u>0</u>											Other	Other	Vermiculite*		
Recommended <input type="checkbox"/>	Color of Layer	Detected	Yes	No											<input type="checkbox"/> Cellulose Ondulose Extinction <input type="checkbox"/> Fiberglass Isotopic <input type="checkbox"/> Synthetic High Birefringence <input type="checkbox"/> Horse Hair: Scales, Low to Moderate Birefringence		
See gravimetric analysis sheet for results	SM-V	Point Counts	Slide 1	Slide 2	Slide 3	Slide 4	Slide 5	Slide 6	Slide 7	Slide 8	Asb./Ver. PT	Total PT	%Asb. Or %Ver.	* If vermiculite is >10% the level of asbestos in a sample might be underestimated. See Note #1.			
	Required <input type="checkbox"/>	PLM	<u>0</u>	<u>0</u>							<u>0</u>	<u>40</u>	<u>0</u>				
	See SM-V analysis sheet for results	NOB PLM															
	Comments: <u>Corebase</u>																
	Method: <input type="checkbox"/> ELAP <input checked="" type="checkbox"/> EPA <input type="checkbox"/> SCANNING OPTION												Q.C. <input type="checkbox"/>				

4 10A	Stereoscopic Exam		PLM Optical Properties										Asbestos Results PLM %	Other Fibrous PLM %	Non Fibrous PLM %		
Field Number	Color <u>Yellow</u>	Texture <u>NP</u>	Morph	Extinction	RI 1	RI 2	DS Color	Color, Pleo	Biref	Sign	Other	Identity	Chrysotile	Cellulose	Mineral Filler		
Gravimetric	Homogeneity <u>9</u>	Vermiculite <u>0</u>											Amosite	Fiberglass	Organic Binders		
Required <input type="checkbox"/>	# of Layers	Asbestos <u>0</u>											Other	Other	Vermiculite*		
Recommended <input type="checkbox"/>	Color of Layer	Detected	Yes	No											<input checked="" type="checkbox"/> Cellulose Ondulose Extinction <input type="checkbox"/> Fiberglass Isotopic <input type="checkbox"/> Synthetic High Birefringence <input type="checkbox"/> Horse Hair: Scales, Low to Moderate Birefringence		
See gravimetric analysis sheet for results	SM-V	Point Counts	Slide 1	Slide 2	Slide 3	Slide 4	Slide 5	Slide 6	Slide 7	Slide 8	Asb./Ver. PT	Total PT	%Asb. Or %Ver.	* If vermiculite is >10% the level of asbestos in a sample might be underestimated. See Note #1.			
	Required <input type="checkbox"/>	PLM	<u>0</u>	<u>0</u>							<u>0</u>	<u>40</u>	<u>0</u>				
	See SM-V analysis sheet for results	NOB PLM															
	Comments: <u>Mastic</u>																
	Method: <input type="checkbox"/> ELAP <input checked="" type="checkbox"/> EPA <input type="checkbox"/> SCANNING OPTION												Q.C. <input type="checkbox"/>				

Methods:  
EPA Interim Method of the Determination of Asbestos in Bulk Insulation Samples - 40 CFR Appendix E to Subpart E of Part 763  
EPA 800/R-93/116  
ELAP Items 198.1, 198.4, 198.6, 198.8

THIS DOCUMENT OR FORM IS UNCONTROLLED WHEN PRINTED  
 Note #1: ELAP requires method ELAP 198.1 for the analysis of samples containing <10% vermiculite, with the exception of surfacing material that contains vermiculite (SM-V). For samples containing >10% vermiculite ELAP requires methods ELAP 198.1 followed by ELAP 198.6. This method has limitations for identification and quantification of vermiculite. \*This method does not remove vermiculite and may underestimate the level of asbestos present in a sample containing greater than 10% vermiculite.\*  
 Note #2: ELAP requires method 198.8 for the analysis of surfacing material containing vermiculite (SM-V) and it utilizes a 400 point count method.  
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 ATC EFFECTIVE DATE 01/25/2022 REVISION #34 BY MEI WANG FORM #B2

BULK ASBESTOS ANALYSIS SHEET

Client / Project ATC ALABAMA/ 1124 KELLY SPRING RD Project Number Z003001189  
Analysis Date 02/17/22 Analyst IR Batch Number 22-286 TEMPERATURE °C 25

1 Field Number	Stereoscopic Exam		PLM Optical Properties										Asbestos Results PLM %	Other Fibrous PLM %	Non Fibrous PLM %		
Gravimetric	Color <u>Blue</u>	Texture <u>RF</u>	Morph	Extinction	RI 1	RI 2	DS Color	Color, Pleo	Biref	Sign	Other	Identity	Chrysotile	Cellulose	10	Mineral Filler	
Required <input type="checkbox"/>	Homogeneity <u>4</u>	Vermiculite <u>0</u>											Amosite	Fiberglass	90	Organic Binders	
Recommended <input type="checkbox"/>	# of Layers	Asbestos <u>0</u>											Other	Other	0	Vermiculite*	
See gravimetric analysis sheet for results	Color of Layer	Detected Yes No														Other	
SM-V	Point Counts	Slide 1	Slide 2	Slide 3	Slide 4	Slide 5	Slide 6	Slide 7	Slide 8	Asb./Ver. PT	Total PT	%Asb. Or %Ver.	<input type="checkbox"/> Cellulose Ondulose Extinction	<input type="checkbox"/> Fiberglass Isotopic	* If vermiculite is >10% the level of asbestos in a sample might be underestimated. See Note #1.		
Required <input type="checkbox"/>	PLM	<u>0</u>	<u>0</u>	<u>0</u>	<u>0</u>	<u>0</u>	<u>0</u>	<u>0</u>	<u>0</u>	<u>0</u>	<u>0</u>	<input type="checkbox"/> Synthetic High Birefringence	<input type="checkbox"/> Horse Hair: Scales, Low to Moderate Birefringence				
See SM-V analysis sheet for results	NOB PLM																
Comments: <u>Corebase</u>																	
Method: <input type="checkbox"/> ELAP <input checked="" type="checkbox"/> EPA <input type="checkbox"/> SCANNING OPTION													Q.C. <input type="checkbox"/>				

2 Field Number	Stereoscopic Exam		PLM Optical Properties										Asbestos Results PLM %	Other Fibrous PLM %	Non Fibrous PLM %			
Gravimetric	Color <u>Yellow</u>	Texture <u>RF</u>	Morph	Extinction	RI 1	RI 2	DS Color	Color, Pleo	Biref	Sign	Other	Identity	Chrysotile	Cellulose	20	Mineral Filler		
Required <input type="checkbox"/>	Homogeneity <u>4</u>	Vermiculite <u>0</u>											Amosite	Fiberglass	80	Organic Binders		
Recommended <input type="checkbox"/>	# of Layers	Asbestos <u>0</u>											Other	Other		Vermiculite*		
See gravimetric analysis sheet for results	Color of Layer	Detected Yes No											<input type="checkbox"/> Cellulose Ondulose Extinction	<input type="checkbox"/> Fiberglass Isotopic	* If vermiculite is >10% the level of asbestos in a sample might be underestimated. See Note #1.			
SM-V	Point Counts	Slide 1	Slide 2	Slide 3	Slide 4	Slide 5	Slide 6	Slide 7	Slide 8	Asb./Ver. PT	Total PT	%Asb. Or %Ver.	<input type="checkbox"/> Synthetic High Birefringence	<input type="checkbox"/> Horse Hair: Scales, Low to Moderate Birefringence				
Required <input type="checkbox"/>	PLM	<u>0</u>	<u>0</u>	<u>0</u>	<u>0</u>	<u>0</u>	<u>0</u>	<u>0</u>	<u>0</u>	<u>0</u>	<u>0</u>	<u>0</u>						
See SM-V analysis sheet for results	NOB PLM																	
Comments: <u>Mastic</u>																		
Method: <input type="checkbox"/> ELAP <input checked="" type="checkbox"/> EPA <input type="checkbox"/> SCANNING OPTION													Q.C. <input type="checkbox"/>					

3 Field Number	Stereoscopic Exam		PLM Optical Properties										Asbestos Results PLM %	Other Fibrous PLM %	Non Fibrous PLM %			
Gravimetric	Color <u>Blue</u>	Texture <u>RF</u>	Morph	Extinction	RI 1	RI 2	DS Color	Color, Pleo	Biref	Sign	Other	Identity	Chrysotile	Cellulose	10	Mineral Filler		
Required <input type="checkbox"/>	Homogeneity <u>4</u>	Vermiculite <u>0</u>											Amosite	Fiberglass	90	Organic Binders		
Recommended <input type="checkbox"/>	# of Layers	Asbestos <u>0</u>											Other	Other	0	Vermiculite*		
See gravimetric analysis sheet for results	Color of Layer	Detected Yes No											<input type="checkbox"/> Cellulose Ondulose Extinction	<input type="checkbox"/> Fiberglass Isotopic	* If vermiculite is >10% the level of asbestos in a sample might be underestimated. See Note #1.			
SM-V	Point Counts	Slide 1	Slide 2	Slide 3	Slide 4	Slide 5	Slide 6	Slide 7	Slide 8	Asb./Ver. PT	Total PT	%Asb. Or %Ver.	<input type="checkbox"/> Synthetic High Birefringence	<input type="checkbox"/> Horse Hair: Scales, Low to Moderate Birefringence				
Required <input type="checkbox"/>	PLM	<u>0</u>	<u>0</u>	<u>0</u>	<u>0</u>	<u>0</u>	<u>0</u>	<u>0</u>	<u>0</u>	<u>0</u>	<u>0</u>	<u>0</u>						
See SM-V analysis sheet for results	NOB PLM																	
Comments: <u>Corebase</u>																		
Method: <input type="checkbox"/> ELAP <input checked="" type="checkbox"/> EPA <input type="checkbox"/> SCANNING OPTION													Q.C. <input type="checkbox"/>					

4 Field Number	Stereoscopic Exam		PLM Optical Properties										Asbestos Results PLM %	Other Fibrous PLM %	Non Fibrous PLM %			
Gravimetric	Color <u>Yellow</u>	Texture <u>RF</u>	Morph	Extinction	RI 1	RI 2	DS Color	Color, Pleo	Biref	Sign	Other	Identity	Chrysotile	Cellulose	25	Mineral Filler		
Required <input type="checkbox"/>	Homogeneity <u>4</u>	Vermiculite <u>0</u>											Amosite	Fiberglass	75	Organic Binders		
Recommended <input type="checkbox"/>	# of Layers	Asbestos <u>0</u>											Other	Other	0	Vermiculite*		
See gravimetric analysis sheet for results	Color of Layer	Detected Yes No											<input type="checkbox"/> Cellulose Ondulose Extinction	<input type="checkbox"/> Fiberglass Isotopic	* If vermiculite is >10% the level of asbestos in a sample might be underestimated. See Note #1.			
SM-V	Point Counts	Slide 1	Slide 2	Slide 3	Slide 4	Slide 5	Slide 6	Slide 7	Slide 8	Asb./Ver. PT	Total PT	%Asb. Or %Ver.	<input type="checkbox"/> Synthetic High Birefringence	<input type="checkbox"/> Horse Hair: Scales, Low to Moderate Birefringence				
Required <input type="checkbox"/>	PLM	<u>0</u>	<u>0</u>	<u>0</u>	<u>0</u>	<u>0</u>	<u>0</u>	<u>0</u>	<u>0</u>	<u>0</u>	<u>0</u>	<u>0</u>						
See SM-V analysis sheet for results	NOB PLM																	
Comments: <u>Mastic</u>																		
Method: <input type="checkbox"/> ELAP <input checked="" type="checkbox"/> EPA <input type="checkbox"/> SCANNING OPTION													Q.C. <input type="checkbox"/>					

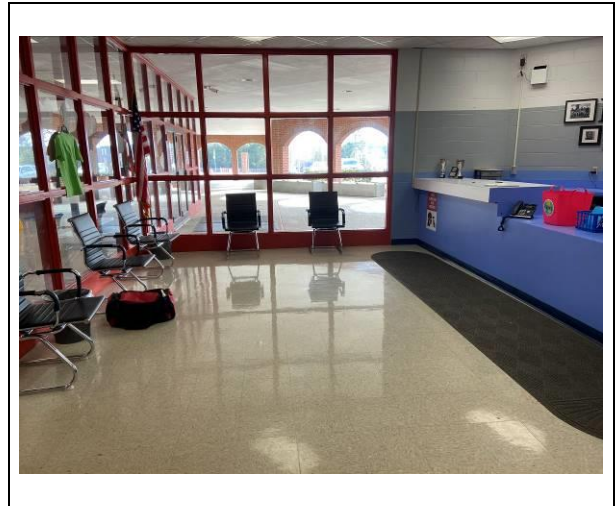
Methods:  
EPA Interim Method of the Determination of Asbestos in Bulk Insulation Samples - 40 CFR Appendix E to Subpart E of Part 763  
EPA 600/R-93/116  
ELAP Items 198.1, 198.4, 198.6, 198.8

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Note #1: ELAP requires method ELAP 198.1 for the analysis of samples containing ≤10% vermiculite, with the exception of surfacing material that contains vermiculite (SM-V). For samples containing >10% vermiculite ELAP requires methods ELAP 198.1 followed by ELAP 198.6. This method has limitations for identification and quantification of vermiculite. \*This method does not remove vermiculite and may underestimate the level of asbestos present in a sample containing greater than 10% vermiculite.\*  
Note #2: ELAP requires method 198.8 for the analysis of surfacing material containing vermiculite (SM-V) and it utilizes a 400 point count method.

**APPENDIX V  
PICTURE LOG**



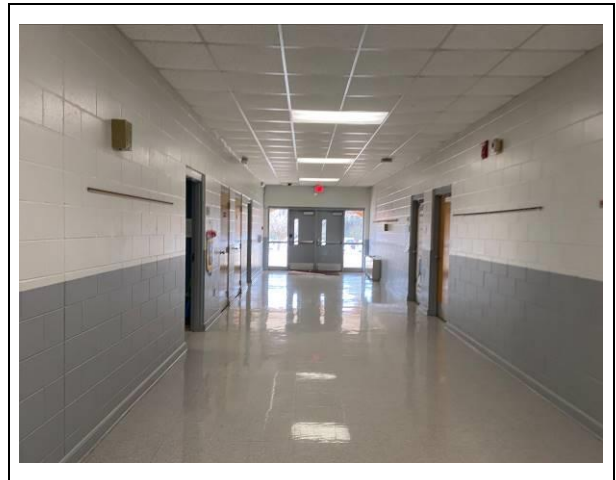
**Photo #1.** Northwest view of typical exterior building Materials observed along main entrance to school.



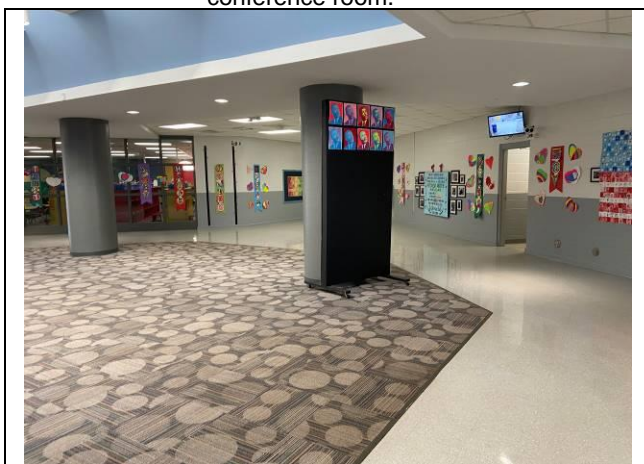
**Photo #2.** Typical non-detect asbestos materials observed in the front office.



**Photo #3.** View of typical non-detect light/dark gray luxury vinyl flooring (LVT) in office conference room.



**Photo #4.** View of typical interior finishes in 100 hallway.



**Photo #5.** Typical interior finishes observed in the central common area. View of assumed ACBM gray/brown/tan circular carpet central common area.



**Photo #6.** View of non-detected gray cove base with yellow mastic and light/dark gray LVT with yellow mastic sampled during February 2022 inspection.



**Photo #7.** View of non-detect light/gray LVT flooring observed in classroom 105.



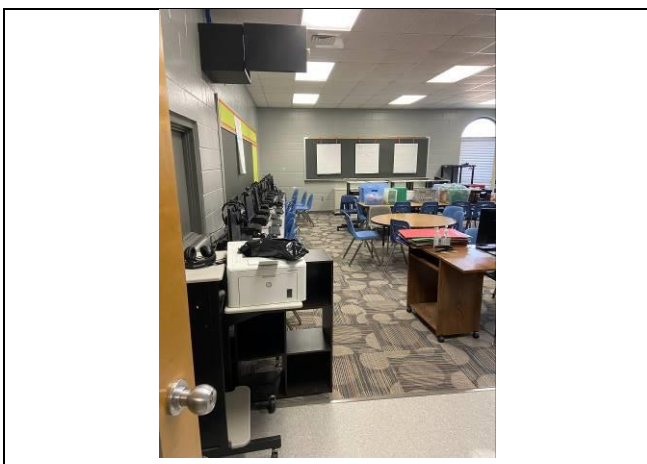
**Photo #8.** Typical non-detect light/dark gray LVT flooring in 200 hall teacher work room.



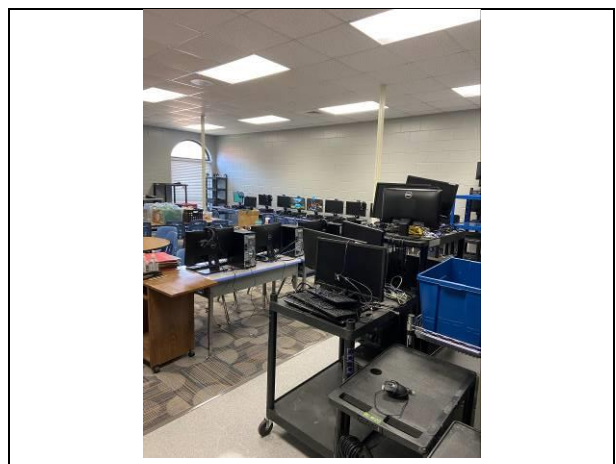
**Photo #9.** View of assumed ACBM dark brown laminate in the Media Center, room 300.



**Photo #10.** Another view of typical interior finishes observed in the media center.



**Photo #11.** View of assumed ACBM gray/brown/tan carpet in computer lab room 400.



**Photo #12.** Another view of assumed ACBM gray/brown/tan carpet in computer lab room 400.

**APPENDIX VI  
LICENSES AND CERTIFICATIONS**

United States Department of Commerce  
National Institute of Standards and Technology



**Certificate of Accreditation to ISO/IEC 17025:2017**

NVLAP LAB CODE: 101187-0

**ATC Group Services LLC**  
New York, NY

*is accredited by the National Voluntary Laboratory Accreditation Program for specific services,  
listed on the Scope of Accreditation, for:*

**Asbestos Fiber Analysis**

*This laboratory is accredited in accordance with the recognized International Standard ISO/IEC 17025:2017.  
This accreditation demonstrates technical competence for a defined scope and the operation of a laboratory quality  
management system (refer to joint ISO-ILAC-IAF Communique dated January 2009).*

2021-07-01 through 2022-06-30

*Effective Dates*



A handwritten signature in blue ink, reading "Dana S. Gorman", is written over a horizontal line.

*For the National Voluntary Laboratory Accreditation Program*

# THE UNIVERSITY OF ALABAMA®



has examined the documentation of asbestos training and qualifications of the person named below and confers this

## Certificate of Accreditation

UA™

Asbestos Inspector Renewal

Zander Cordan

Alabama Accreditation Number

AIN0521678077

Certificate Expiration Date

May 11, 2022

This certificate has been issued pursuant to the authority granted to The University of Alabama SafeState Program by the Alabama Asbestos Contractor Accreditation Act, Alabama Act No. 89-517, May, 1989 and Alabama Act No. 97-626, May, 1997.

A handwritten signature in blue ink that reads "Donald D. Elswick".

Executive Director

A handwritten signature in blue ink that reads "Michael K. Brown".

Associate Director for Environmental Programs

**APPENDIX VII**  
**PREVIOUS AHERA 3-YEAR RE-INSPECTION REPORT(S)**

December 3, 2018

Ms. Sharla Godwin  
Dothan Board of Education  
2999 Ross Clark Circle  
Dothan, AL 36301

ATC

200 Wellington Manor Court  
Suite 100  
Birmingham, AL 35007

Phone +1 205 733 8775  
Fax +1 205 733 8954  
[www.ATCGroupServices.com](http://www.ATCGroupServices.com)

Subject: 3-year AHERA Re-inspection Forms  
Kelly Springs Elementary School  
1124 Kelly Springs Road  
Dothan, Alabama 36303  
ATC Project No. Z003000643

Dear Ms. Godwin:

ATC is pleased to submit the 3-year re-inspection forms of the asbestos-containing building materials (ACBMs) within Kelly Springs Elementary School located at 1124 Kelly Springs Road, Dothan, Alabama. The re-inspection is a requirement of the Asbestos-Containing Materials in Schools; Final Rule and Notice, 40 CFR part 763, and must be completed every three years from the date your school system's management plan was implemented. The re-inspection is a three (3) phase process which consisted of the following:

1. Review of the school's original management plan and subsequent inspection reports to note the condition and location of the ACBMs that were identified.
2. Re-inspect each previously-recorded ACBMs while noting the material's present condition.
3. Assess the ACBMs' potential for creating a hazard, and record any change from the initial survey. Should changes occur, new response actions will be indicated. Changes that have occurred and the responses appear on the inspection form.
  - Please note that the building materials in the main building was assumed in the previous report as to not contain asbestos. However, no analytical data were provided in the previous report to verify this statement. Therefore, all building materials (vinyl floor tile and drop acoustical ceiling panels) in the main building area assumed ACBM unless otherwise proven by analytical data. Please see inspection forms below for more details.
  - Please note the gym, referred to as the activity building in the previous assessment report, was constructed in 1998 and was stated to be non-ACBM. However, no analytical data were provided in the previous report to verify this statement. Therefore, all building materials (vinyl floor tile and drop acoustical ceiling panels) in the main building area assumed ACBM unless proven otherwise by analytical data. Please see inspection forms below for more details.

The above-referenced phases were performed by Mr. Zander Cordan (Inspector I.D. No. AIN0518678077) on November 16<sup>th</sup>, 2018. The hand-written inspection forms, inspector's certification, site maps, photo-log along with a copy of the previous inspection reports, are included with this letter.

Thank you for the opportunity to offer our services to the Dothan City School System. Please feel free to contact us with questions or concerns you may have regarding this letter.

Respectfully submitted,

ATC

A handwritten signature in black ink, appearing to read 'Zander Cordan', with a long horizontal flourish extending to the right.

Zander Cordan  
Staff Geologist  
AHERA Inspector # AIN0518678077

A handwritten signature in blue ink, appearing to read 'Brad M. Jenkins', with a long horizontal flourish extending to the right.

Brad M. Jenkins, P.G.  
Principal Geologist  
Environmental Services Manager

**3 YEAR RE-INSPECTION FORMS**

Reinspection of ACBM: Findings and Management Planner Recommendations

School Kelley Springs Elementary Building Material Description main bldg

Dates of Reinspection 11/16/18  
ID Number \_\_\_\_\_

REINSPECTION FINDINGS FOR ACBM					MANAGEMENT PLANNER RECOMMENDATIONS			
Locations of ACBM by assessment Category	Quantity	Friability	Assessment Category (1-7, X)	Justification of assessment category	Change in Assessment	Preventative measures, response actions, and initial/additional cleanings	Schedule	
							Begin	Complete
<u>main bldg</u>	<u>X</u>	F NF	<u>X</u>	<u>NO new Additions</u>	YES <u>NO</u>	<u>NO ACM. NO new additions have been added since Report Date</u>		
		F NF			YES NO	<u>However NO Analytical Data so</u>		
		F NF			YES NO	<u>assumed ACM!</u>		
		F NF			YES NO			
		F NF			YES NO			
		F NF			YES NO			
		F NF			YES NO			
		F NF			YES NO			
		F NF			YES NO			
		F NF			YES NO			
		F NF			YES NO			
		F NF			YES NO			
		F NF			YES NO			

Were additional samples of ACBM collected? YES  NO

Inspector Name Zander Cordan  
 Inspector Signature [Signature]  
 Accreditation # / State ATN05176 TROTT AL  
 Expirations Date 5/3/19

Date of Management Planner Review: \_\_\_\_\_  
 Management Planner Name \_\_\_\_\_  
 Management Planner Signature \_\_\_\_\_  
 Accreditation # / State \_\_\_\_\_  
 Expirations Date \_\_\_\_\_

I, the LEA's Designated Person, have read and understood the recommendations made above: \_\_\_\_\_ Date: \_\_\_\_\_

- AHERA Assessment Category:
- 1 - Damaged or Significantly damaged
  - 2 - Damaged friable surfacing ACBM
  - 3 - Significantly damaged friable 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
  - X - not applicable (material is non-ACBM or nonfriable surfacing or miscellaneous material)
  - None - No assessment category provided in original inspection.

**INSPECTOR ACCREDITATION CERTIFICATE**

THE UNIVERSITY OF ALABAMA®

UA SafeState

has examined the documentation of asbestos training and qualifications of the person named below and confers this

# Certificate of Accreditation

For the Asbestos Contractor Discipline

**INSPECTOR**  
Alexander J Cordan

Alabama Accreditation Number  
**AIN0518678077**

Certificate Expiration Date  
**May 3, 2019**

This certificate has been issued pursuant to the authority granted to The University of Alabama SafeState Program by the Alabama Asbestos Contractor Accreditation Act, Alabama Act No. 89-517, May, 1989 and Alabama Act No. 97-626, May, 1997.



Executive Director

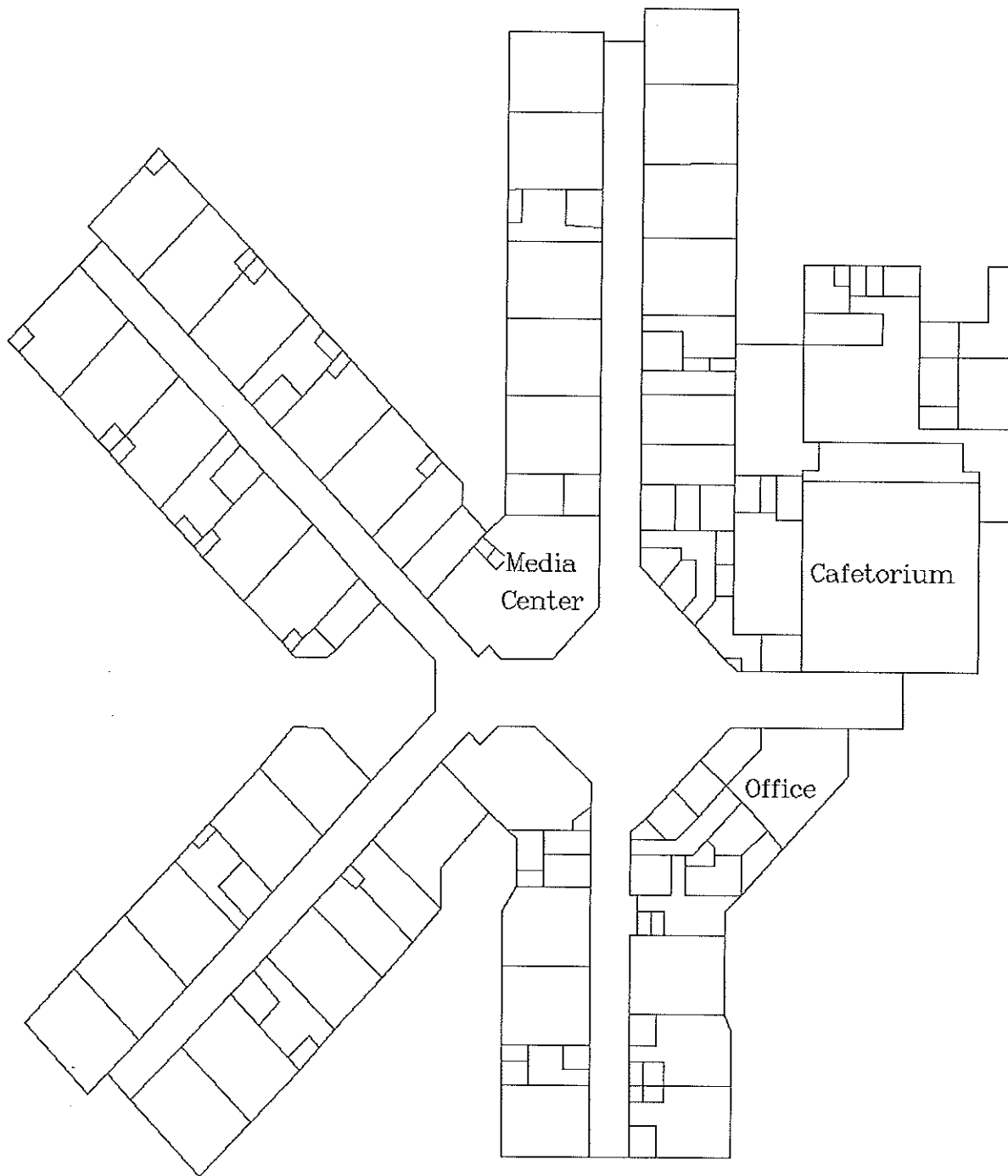


Associate Director for Environmental Programs

**SITE MAP (CURRENT)**



**SITE MAP (PREVIOUS REPORT)**



# Kelly Springs Elementary School

Kelly Springs Road

**PREVIOUS INSPECTION REPORT**

# Alabama Asbestos Management Program

L1 AHERA Management Plan LEA: Dothan City Schools 1 3 0  
School Cover Sheet *Name* *Code #*

L2 School: Kelly Springs Elementary School 0 9 7  
*Name* *Code #*

L3 Management Plan Submission  Original  Resubmitted  New Building

L4 List of Documents Attached

- |   |  |
|---|--|
| <input checked="" type="checkbox"/> List of School Buildings (Form 3) | <input type="checkbox"/> Follow-up Action Plan (Form 7)        |
| <input type="checkbox"/> Homogeneous Areas (Form 4)                   | <input type="checkbox"/> Assessment Sheet(s) (Optional Form 8) |
| <input type="checkbox"/> Summary of Recommendations (Form 5)          | <input type="checkbox"/> Sampling Form (Optional Form 9)       |
| <input type="checkbox"/> Response Action Plan (Form 6 & 6A)           | <input type="checkbox"/> Lab Report(s) (Optional Form 10)      |

L5 LEA AHERA DESIGNEE (School Asbestos Coordinator) AHERA Inspector/AHERA  
Typed Name: Ted Hall Name of Training Course Management Planner  
Mailing Address: 500 Dusy Street Year 88 Month 7 Day 15 Total Hours of Course 40  
Dothan, AL 36301 Name of Training Agency University of Alabama

L6 MANAGEMENT PLANNER

Typed Name: Ted Hall Agency: Dothan City Schools  
Accreditation Number: PL0788H9506 Signature: Ted Hall Date: 8/26/91

*For persons who performed inspections, and recommend(ed) design, or carry out response actions (except for operations and maintenance) the local education agency used or will use persons who have been accredited by a state which has adopted a contractor accreditation plan under section 206(b) of Title II of the Act or is accredited by an EPA-approved course under section 206(c) of Title II of the Act. In addition, the LEA has considered whether any conflict of interest may arise from the interrelationship among accredited personnel, such as abatement activities being performed by an inspector or management planner, and whether that should influence the selection of accredited personnel to perform activities under this AHERA program.*

*The signatories below certify that the general local education agency responsibilities, as stipulated by Part 763.84 have been met or will be met.*

L7 Signature: Ted Hall Signature: Gene J. Watson  
*LEA AHERA Designee* *LEA Superintendent/Owner*  
Date: 8/26/91 Gene J. Watson  
*Typed Name of Superintendent/Owner*

Accepted For Reviewing Agency Use Only  
 Returned for Reason Stated, Below

Reviewers Signature: \_\_\_\_\_ Date: \_\_\_\_\_

# Alabama Asbestos Management Program

## School Listing of Buildings

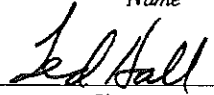
L1 LEA: Dothan City Schools 1 3 0  
Name Code #

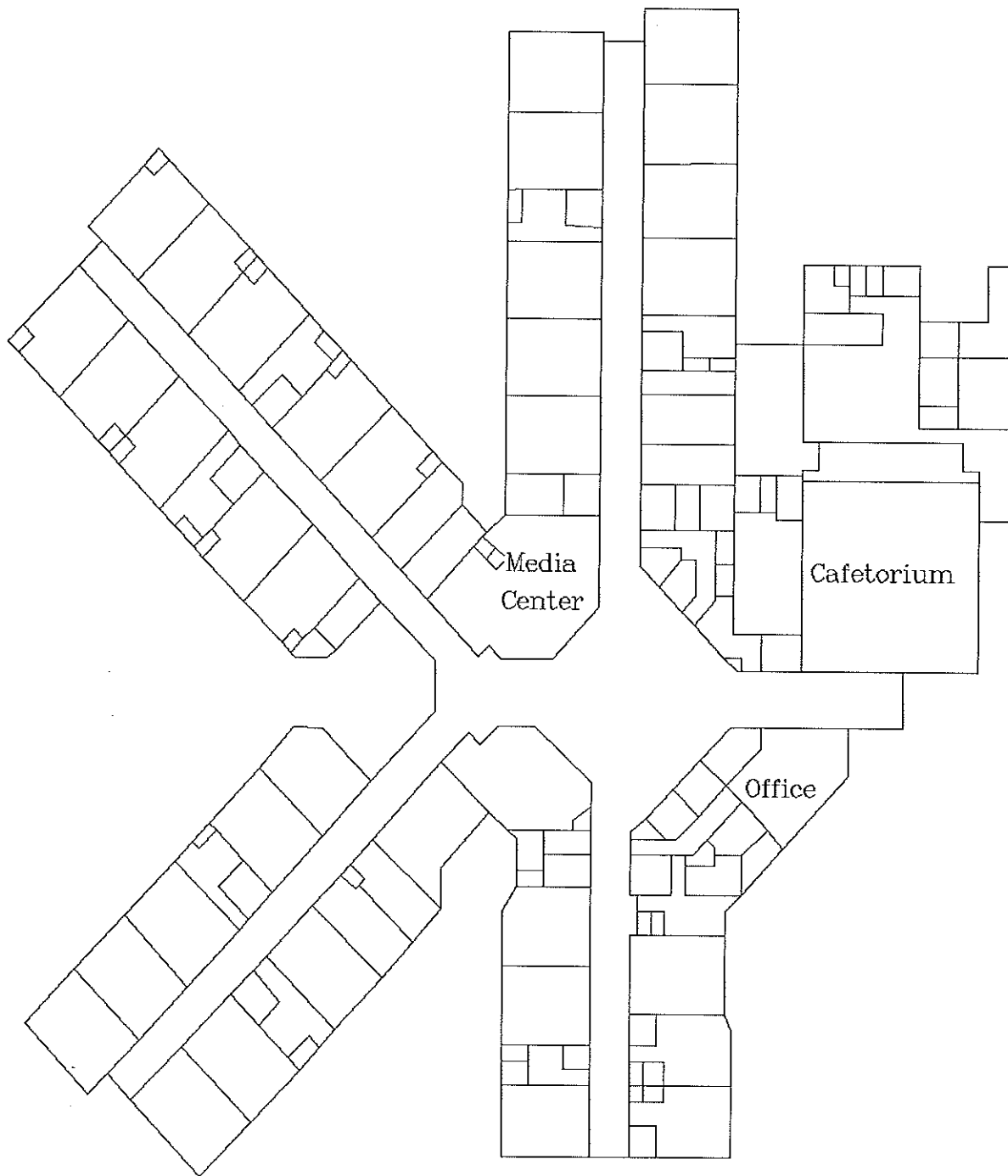
L2 School: Kelly Springs Elementary School 0 9 7  
Name Code #

L3 Address: 1000 Kelly Springs Road  
Dothan, AL 36303 County Houston

C1	C2	C3	C4		C5				
No.	Building Description <small>Name (Address if different than school)</small>	Total Ft. <sup>2</sup>	Date of Inspection		Check Here for Presence of:				
			Present	Previous	ACBM		Suspect ACBM		No ACBM
			Friable	Non-Friable	Friable	Non-Friable	Friable	Non-Friable	
01	Main Building	70100	8/15/91						X

L4 Inspector: Ted Hall Alabama Certification Number: 1N0788H9506

  
Name Signature Date: 8/26/91 Agency: Dothan City Schools



# Kelly Springs Elementary School

Kelly Springs Road

LEA: Dothan City Schools (130)

School: Kelly Springs Elem. (097)

Building: Activity Building (02)

Construction of this () new building (  ) building addition completed Spring 1998.

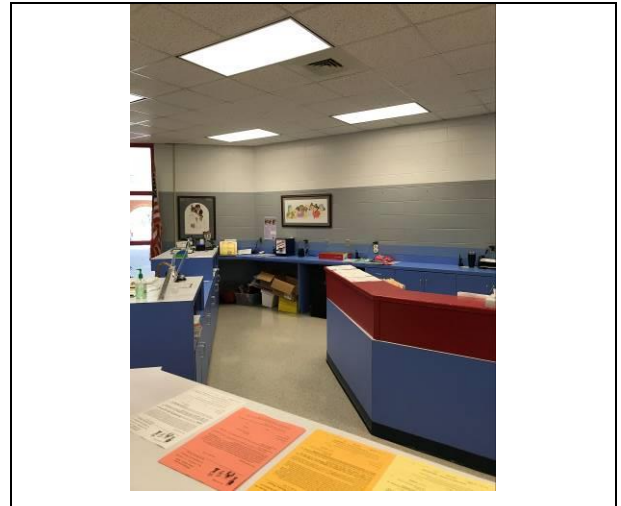
I monitored this construction and completed an inspection of the facility prior to its use. The new construction contains no ACBM.

Jed Hall  
Inspector/Management Planner

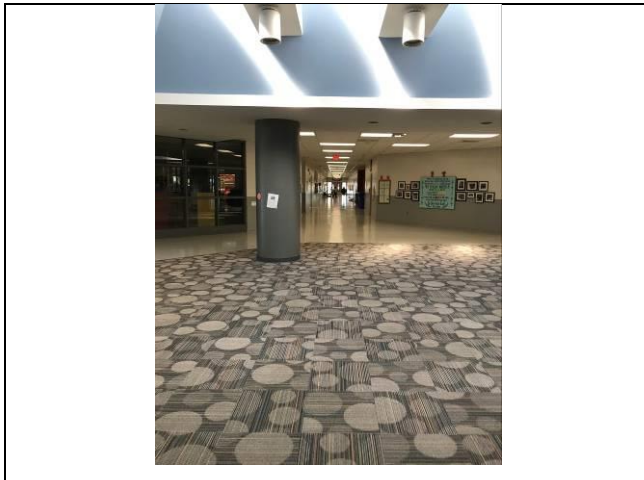
**PHOTO-LOG**



**Photo #1.** Typical Exterior Building Materials.



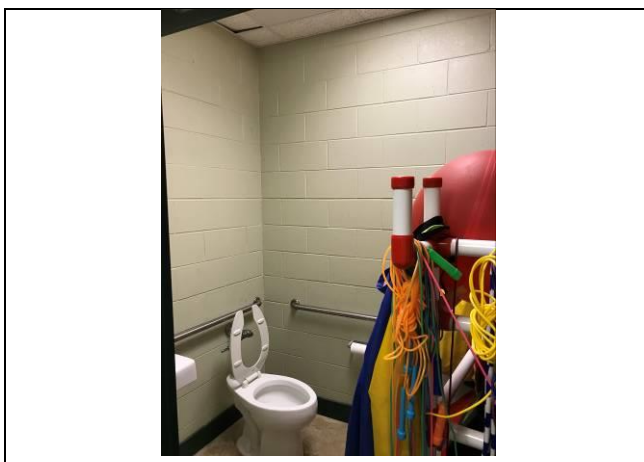
**Photo #2.** Typical interior finishes in main office.



**Photo #3.** View of assumed ACBM in main rotunda of school.



**Photo #4.** View of assumed ACBM within the gym.



**Photo #5.** Typical interior finishes inside the gym bathroom.



**Photo #6.** View of typical interior finishes inside classroom.

**APPENDIX VIII  
PREVIOUS ACM SAMPLING REPORT(S)**

February 15, 2019

Ms. Sharla Godwin  
Dothan Board of Education  
2999 Ross Clark Circle  
Dothan, AL 36301

Subject: 3-year AHERA Re-inspection Addendum  
Kelly Springs Elementary School  
1124 Kelly Springs Road  
Dothan, Alabama 36303  
ATC Project No. Z003000643

ATC

200 Wellington Manor Court  
Suite 100  
Birmingham, AL 35007

Phone +1 205 733 8775  
Fax +1 205 733 8954  
[www.ATCGroupServices.com](http://www.ATCGroupServices.com)

Dear Ms. Godwin:

ATC is pleased to submit the Addendum to the AHERA 3-year Re-Inspection Report with updated maps of the asbestos-containing building materials (ACBMs) within the Kelly Springs Elementary School located in Dothan, Alabama. The re-inspection is a requirement of the Asbestos-Containing Materials in Schools; Final Rule and Notice, 40 CFR part 763, and must be completed every three years from the date your school system's management plan was implemented.

The 3 year re-inspection was performed by Mr. Zander Cordan (Inspector I.D. No. AIN0518678077) on January 30, 2019. The hand-written inspection forms, along with a copy of Mr. Cordan's Certificate of Accreditation, were submitted on December 3, 2018. The re-inspection forms identified multiple building materials that were assumed to contain asbestos. Dothan City Schools retained ATC Group Services to conduct an asbestos survey of the materials identified as assumed during the course of the re-inspection.

Attached to this letter, you will find a map indicating the sample location of each material sampled, the laboratory analytical report and updated 3 year re-inspection maps. Based on the results of this ACM Survey data and historical ACM documentation, the continuation of the 3 year re-inspections is no longer required per 40 CFR part 763.

Thank you for the opportunity to offer our services to your company. Please feel free to contact us with questions or concerns you may have regarding this letter.

Respectfully submitted,

**ATC**

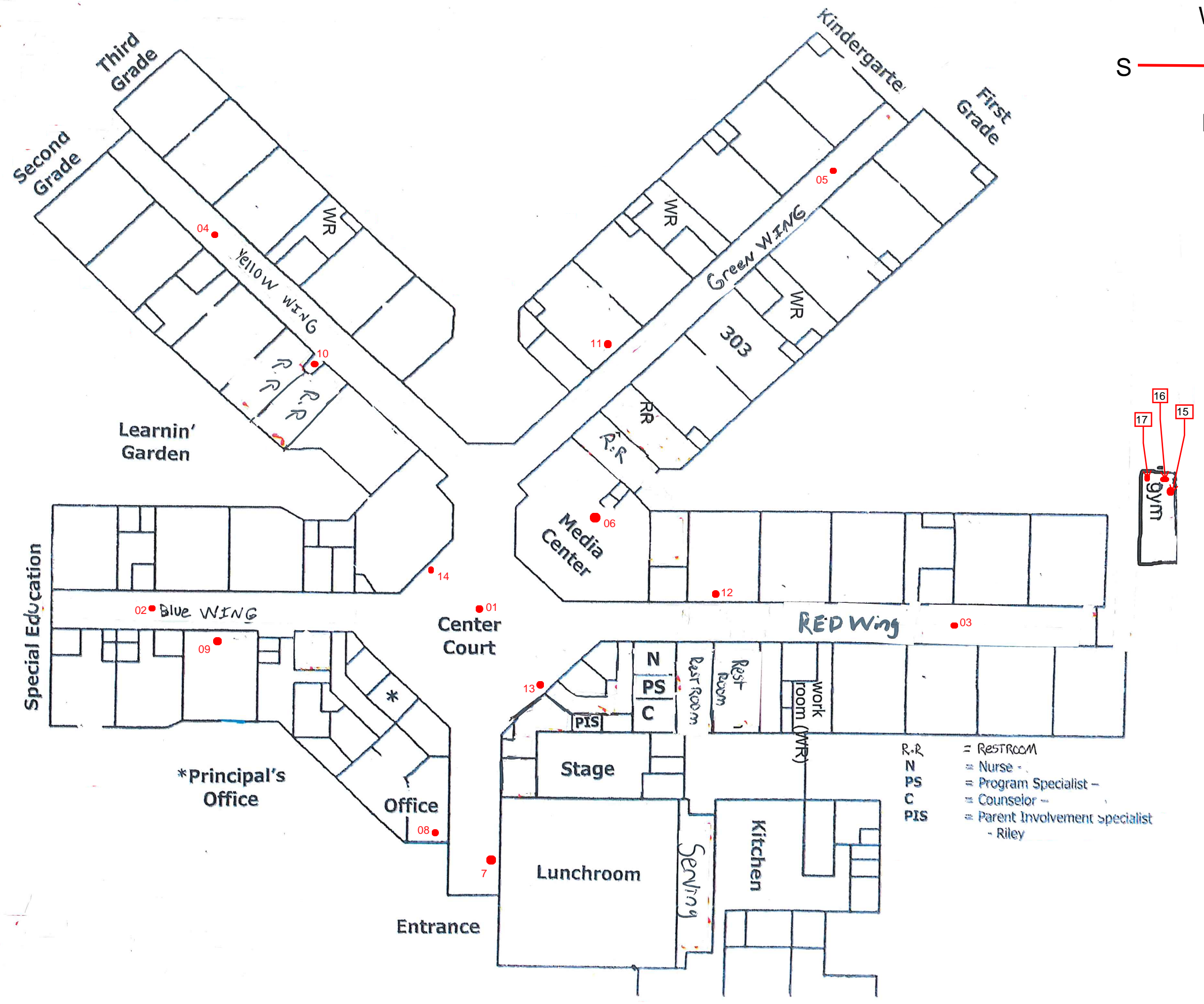
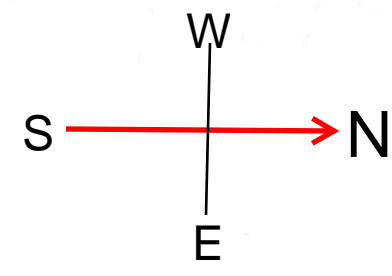


Zander Cordan  
Staff Geologist  
AHERA Inspector # AIN0518678077



Stephanie Pryor, P.E.  
Senior Project Manager  
AHERA Inspector # AIN1018644018

**SAMPLE LOCATION MAP**



**LABORATORY ANALYTICAL REPORT**



# EMSL Analytical, Inc.

2205 Corporate Plaza Parkway SE, Suite 200 Smyrna, GA 30080

Tel/Fax: (770) 956-9150 / (770) 956-9181

<http://www.EMSL.com> / [atlantalab@emsl.com](mailto:atlantalab@emsl.com)

EMSL Order: 071900893

Customer ID: ATCI25

Customer PO: Z003000643

Project ID:

**Attention:** Zander Cordan  
ATC Group Services LLC  
200 Wellington Manor Court  
Suite 100  
Alabaster, AL 35007

**Phone:** (205) 733-8775

**Fax:** (205) 733-8954

**Received Date:** 02/04/2019 8:35 AM

**Analysis Date:** 02/06/2019

**Collected Date:**

**Project:** Z003000643/ Kelly Springs Elementary

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

Sample	Description	Appearance	Non-Asbestos		Asbestos
			% Fibrous	% Non-Fibrous	% Type
KSE-01 071900893-0001	Suspended Ceiling Tile Throughout School	Gray Fibrous Homogeneous	60% Cellulose 5% Min. Wool	35% Non-fibrous (Other)	None Detected
HA: 1					
KSE-02 071900893-0002	Suspended Ceiling Tile Throughout School	Gray Fibrous Homogeneous	60% Cellulose 5% Min. Wool	35% Non-fibrous (Other)	None Detected
HA: 1					
KSE-03 071900893-0003	Suspended Ceiling Tile Throughout School	Gray Fibrous Homogeneous	60% Cellulose 5% Min. Wool	35% Non-fibrous (Other)	None Detected
HA: 1					
KSE-04 071900893-0004	Suspended Ceiling Tile Throughout School	Gray Fibrous Homogeneous	60% Cellulose 5% Min. Wool	35% Non-fibrous (Other)	None Detected
HA: 1					
KSE-05 071900893-0005	Suspended Ceiling Tile Throughout School	Gray Fibrous Homogeneous	60% Cellulose 5% Min. Wool	35% Non-fibrous (Other)	None Detected
HA: 1					
KSE-06 071900893-0006	Suspended Ceiling Tile Throughout School	Gray Fibrous Homogeneous	60% Cellulose 5% Min. Wool	35% Non-fibrous (Other)	None Detected
HA: 1					
KSE-07 071900893-0007	Suspended Ceiling Tile Throughout School	Gray Fibrous Homogeneous	60% Cellulose 5% Min. Wool	35% Non-fibrous (Other)	None Detected
HA: 1					
KSE-08-Floor Tile 071900893-0008	L. Gray Speckled 12"x12" Vinyl Floor Tile W/ Brown Mastic - In Main Office, All Halls, Partial All Classrooms	Gray Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
HA: 2					
KSE-08-Mastic 071900893-0008A	L. Gray Speckled 12"x12" Vinyl Floor Tile W/ Brown Mastic - In Main Office, All Halls, Partial All Classrooms	Brown Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
HA: 2					
KSE-09-Floor Tile 071900893-0009	L. Gray Speckled 12"x12" Vinyl Floor Tile W/ Brown Mastic - In Main Office, All Halls, Partial All Classrooms	Gray Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
HA: 2					

Initial report from: 02/06/2019 14:18:30



# EMSL Analytical, Inc.

2205 Corporate Plaza Parkway SE, Suite 200 Smyrna, GA 30080

Tel/Fax: (770) 956-9150 / (770) 956-9181

<http://www.EMSL.com> / [atlantalab@emsl.com](mailto:atlantalab@emsl.com)

**EMSL Order:** 071900893  
**Customer ID:** ATCI25  
**Customer PO:** Z003000643  
**Project ID:**

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

Sample	Description	Appearance	Non-Asbestos		Asbestos
			% Fibrous	% Non-Fibrous	% Type
KSE-09-Mastic <small>071900893-0009A</small>	L. Gray Speckled 12"x12" Vinyl Floor Tile W/ Brown Mastic - In Main Office, All Halls, Partial All Classrooms	Brown Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
HA: 2					
KSE-10-Floor Tile <small>071900893-0010</small>	L. Gray Speckled 12"x12" Vinyl Floor Tile W/ Brown Mastic - In Main Office, All Halls, Partial All Classrooms	Gray Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
HA: 2					
KSE-10-Mastic <small>071900893-0010A</small>	L. Gray Speckled 12"x12" Vinyl Floor Tile W/ Brown Mastic - In Main Office, All Halls, Partial All Classrooms	Brown Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
HA: 2					
KSE-11-Floor Tile <small>071900893-0011</small>	L. Gray Speckled 12"x12" Vinyl Floor Tile W/ Brown Mastic - In Main Office, All Halls, Partial All Classrooms	Gray Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
HA: 2					
KSE-11-Mastic <small>071900893-0011A</small>	L. Gray Speckled 12"x12" Vinyl Floor Tile W/ Brown Mastic - In Main Office, All Halls, Partial All Classrooms	Brown Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
HA: 2					
KSE-12-Floor Tile <small>071900893-0012</small>	L. Gray Speckled 12"x12" Vinyl Floor Tile W/ Brown Mastic - In Main Office, All Halls, Partial All Classrooms	Gray Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
HA: 2					
KSE-12-Mastic <small>071900893-0012A</small>	L. Gray Speckled 12"x12" Vinyl Floor Tile W/ Brown Mastic - In Main Office, All Halls, Partial All Classrooms	Brown Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
HA: 2					
KSE-13-Floor Tile <small>071900893-0013</small>	L. Gray Speckled 12"x12" Vinyl Floor Tile W/ Brown Mastic - In Main Office, All Halls, Partial All Classrooms	Gray Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
HA: 2					

Initial report from: 02/06/2019 14:18:30



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**Customer ID:** ATCI25  
**Customer PO:** Z003000643  
**Project ID:**

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

Sample	Description	Appearance	Non-Asbestos		Asbestos
			% Fibrous	% Non-Fibrous	% Type
KSE-13-Mastic  071900893-0013A	L. Gray Speckled 12"x12" Vinyl Floor Tile W/ Brown Mastic - In Main Office, All Halls, Partial All Classrooms	Yellow Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
HA: 2					
KSE-14-Floor Tile  071900893-0014	L. Gray Speckled 12"x12" Vinyl Floor Tile W/ Brown Mastic - In Main Office, All Halls, Partial All Classrooms	Gray Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
HA: 2					
KSE-14-Mastic  071900893-0014A	L. Gray Speckled 12"x12" Vinyl Floor Tile W/ Brown Mastic - In Main Office, All Halls, Partial All Classrooms	Yellow Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
HA: 2					
KSE-15  071900893-0015	Suspended Ceiling Tile In Gym In Bathrooms - Outside Bathroom & Office	Gray Fibrous Homogeneous	60% Cellulose 10% Min. Wool	30% Non-fibrous (Other)	None Detected
HA: 3					
KSE-16  071900893-0016	Suspended Ceiling Tile In Gym In Bathrooms - Outside Bathroom & Office	Gray Fibrous Homogeneous	60% Cellulose 10% Min. Wool	30% Non-fibrous (Other)	None Detected
HA: 3					
KSE-17  071900893-0017	Suspended Ceiling Tile In Gym In Bathrooms - Outside Bathroom & Office	Gray Fibrous Homogeneous	60% Cellulose 5% Min. Wool	35% Non-fibrous (Other)	None Detected
HA: 3					

Analyst(s)

Anthony Sanaie (7)

Kyle Rich (17)

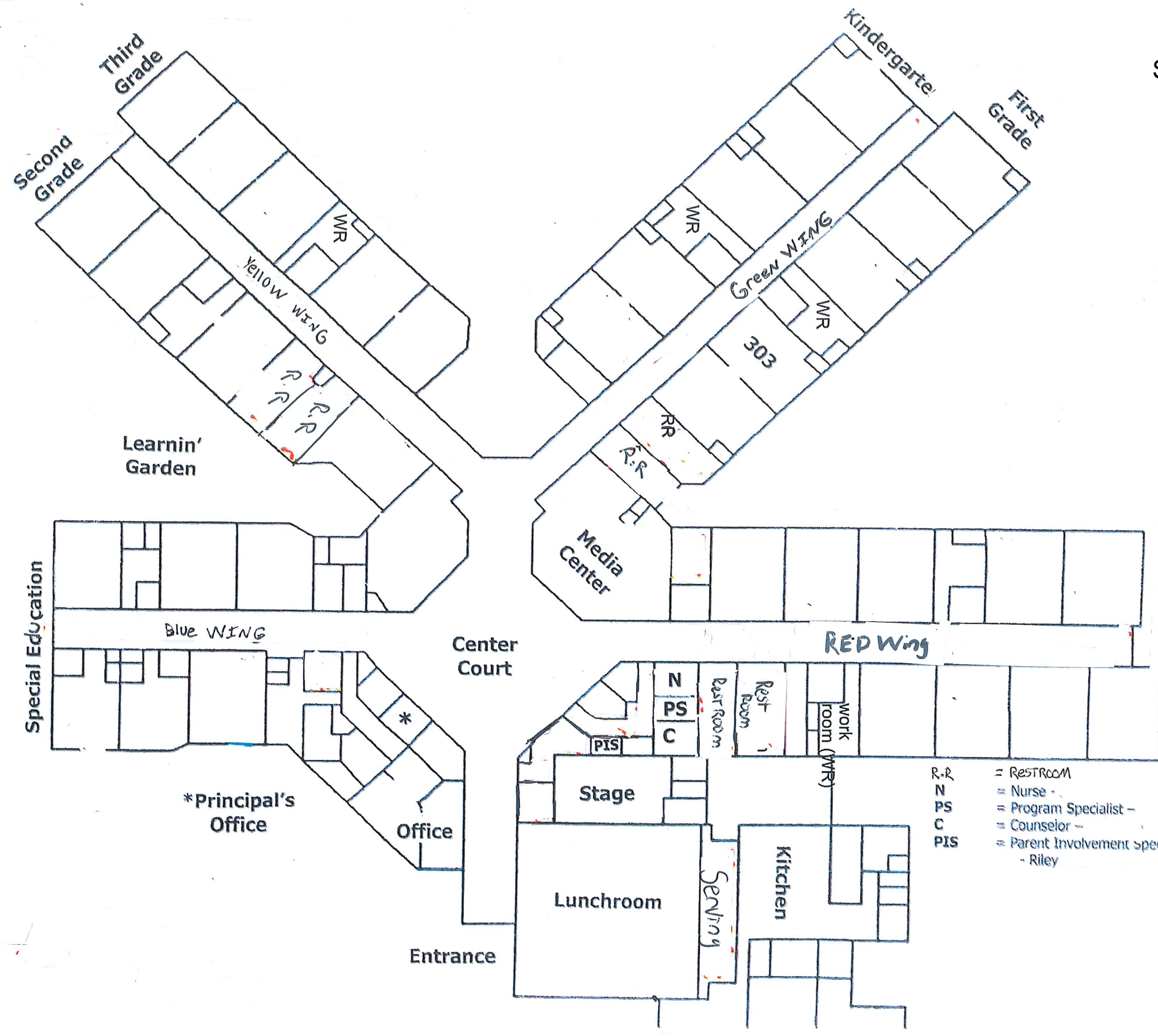
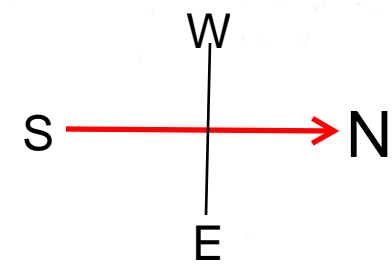
Michael Murphy  
or Other Approved Signatory

EMSL maintains liability limited to cost of analysis. The above analyses were performed in general compliance with Appendix E to Subpart E of 40 CFR (previously EPA 600/M4-82-020 "Interim Method"), but augmented with procedures outlined in the 1993 ("final") version of the method. 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. Interpretation and use of test results are the responsibility of the client. All samples received in acceptable condition unless otherwise noted. This report must not be used by the client to claim product certification, approval, or endorsement by NVLAP, NIST or any agency of the federal government. EMSL recommends gravimetric reduction for all non-friable organically bound materials prior to analysis. Estimation of uncertainty is available on request.

Samples analyzed by EMSL Analytical, Inc Smyrna, GA NVLAP Lab Code 101048-1

Initial report from: 02/06/2019 14:18:30

**UPDATED 3 YEAR RE-INSPECTION MAPS**



- R-R = RestROOM
- N = Nurse -
- PS = Program Specialist -
- C = Counselor -
- PIS = Parent Involvement specialist - Riley

**INSPECTOR ACCREDITATION CERTIFICATE**

THE UNIVERSITY OF ALABAMA®

UA SafeState

has examined the documentation of asbestos training and qualifications of the  
person named below and confers this

# Certificate of Accreditation

For the Asbestos Contractor Discipline

**INSPECTOR**  
Alexander J Cordan

Alabama Accreditation Number  
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Certificate Expiration Date  
**May 3, 2019**

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Executive Director



Associate Director for Environmental Programs

February 15, 2019

Ms. Sharla Godwin  
Dothan Board of Education  
2999 Ross Clark Circle  
Dothan, AL 36301

Subject: 3-year AHERA Re-inspection Addendum  
Kelly Springs Elementary School  
1124 Kelly Springs Road  
Dothan, Alabama 36303  
ATC Project No. Z003000643

ATC

200 Wellington Manor Court  
Suite 100  
Birmingham, AL 35007

Phone +1 205 733 8775  
Fax +1 205 733 8954  
[www.ATCGroupServices.com](http://www.ATCGroupServices.com)

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The 3 year re-inspection was performed by Mr. Zander Cordan (Inspector I.D. No. AIN0518678077) on January 30, 2019. The hand-written inspection forms, along with a copy of Mr. Cordan's Certificate of Accreditation, were submitted on December 3, 2018. The re-inspection forms identified multiple building materials that were assumed to contain asbestos. Dothan City Schools retained ATC Group Services to conduct an asbestos survey of the materials identified as assumed during the course of the re-inspection.

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Thank you for the opportunity to offer our services to your company. Please feel free to contact us with questions or concerns you may have regarding this letter.

Respectfully submitted,

**ATC**



Zander Cordan  
Staff Geologist  
AHERA Inspector # AIN0518678077



Stephanie Pryor, P.E.  
Senior Project Manager  
AHERA Inspector # AIN1018644018

**SAMPLE LOCATION MAP**



**LABORATORY ANALYTICAL REPORT**



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EMSL Order: 071900893

Customer ID: ATCI25

Customer PO: Z003000643

Project ID:

**Attention:** Zander Cordan  
ATC Group Services LLC  
200 Wellington Manor Court  
Suite 100  
Alabaster, AL 35007

**Phone:** (205) 733-8775

**Fax:** (205) 733-8954

**Received Date:** 02/04/2019 8:35 AM

**Analysis Date:** 02/06/2019

**Collected Date:**

**Project:** Z003000643/ Kelly Springs Elementary

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

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HA: 2					
KSE-08-Mastic 071900893-0008A	L. Gray Speckled 12"x12" Vinyl Floor Tile W/ Brown Mastic - In Main Office, All Halls, Partial All Classrooms	Brown Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
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HA: 2					

Initial report from: 02/06/2019 14:18:30



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**Customer ID:** ATCI25  
**Customer PO:** Z003000643  
**Project ID:**

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KSE-10-Mastic <small>071900893-0010A</small>	L. Gray Speckled 12"x12" Vinyl Floor Tile W/ Brown Mastic - In Main Office, All Halls, Partial All Classrooms	Brown Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
HA: 2					
KSE-11-Floor Tile <small>071900893-0011</small>	L. Gray Speckled 12"x12" Vinyl Floor Tile W/ Brown Mastic - In Main Office, All Halls, Partial All Classrooms	Gray Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
HA: 2					
KSE-11-Mastic <small>071900893-0011A</small>	L. Gray Speckled 12"x12" Vinyl Floor Tile W/ Brown Mastic - In Main Office, All Halls, Partial All Classrooms	Brown Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
HA: 2					
KSE-12-Floor Tile <small>071900893-0012</small>	L. Gray Speckled 12"x12" Vinyl Floor Tile W/ Brown Mastic - In Main Office, All Halls, Partial All Classrooms	Gray Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
HA: 2					
KSE-12-Mastic <small>071900893-0012A</small>	L. Gray Speckled 12"x12" Vinyl Floor Tile W/ Brown Mastic - In Main Office, All Halls, Partial All Classrooms	Brown Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
HA: 2					
KSE-13-Floor Tile <small>071900893-0013</small>	L. Gray Speckled 12"x12" Vinyl Floor Tile W/ Brown Mastic - In Main Office, All Halls, Partial All Classrooms	Gray Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
HA: 2					

Initial report from: 02/06/2019 14:18:30



# EMSL Analytical, Inc.

2205 Corporate Plaza Parkway SE, Suite 200 Smyrna, GA 30080

Tel/Fax: (770) 956-9150 / (770) 956-9181

<http://www.EMSL.com> / [atlantab@emsl.com](mailto:atlantab@emsl.com)

**EMSL Order:** 071900893  
**Customer ID:** ATCI25  
**Customer PO:** Z003000643  
**Project ID:**

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

Sample	Description	Appearance	Non-Asbestos		Asbestos
			% Fibrous	% Non-Fibrous	% Type
KSE-13-Mastic <small>071900893-0013A</small>	L. Gray Speckled 12"x12" Vinyl Floor Tile W/ Brown Mastic - In Main Office, All Halls, Partial All Classrooms	Yellow Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
HA: 2					
KSE-14-Floor Tile <small>071900893-0014</small>	L. Gray Speckled 12"x12" Vinyl Floor Tile W/ Brown Mastic - In Main Office, All Halls, Partial All Classrooms	Gray Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
HA: 2					
KSE-14-Mastic <small>071900893-0014A</small>	L. Gray Speckled 12"x12" Vinyl Floor Tile W/ Brown Mastic - In Main Office, All Halls, Partial All Classrooms	Yellow Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
HA: 2					
KSE-15 <small>071900893-0015</small>	Suspended Ceiling Tile In Gym In Bathrooms - Outside Bathroom & Office	Gray Fibrous Homogeneous	60% Cellulose 10% Min. Wool	30% Non-fibrous (Other)	None Detected
HA: 3					
KSE-16 <small>071900893-0016</small>	Suspended Ceiling Tile In Gym In Bathrooms - Outside Bathroom & Office	Gray Fibrous Homogeneous	60% Cellulose 10% Min. Wool	30% Non-fibrous (Other)	None Detected
HA: 3					
KSE-17 <small>071900893-0017</small>	Suspended Ceiling Tile In Gym In Bathrooms - Outside Bathroom & Office	Gray Fibrous Homogeneous	60% Cellulose 5% Min. Wool	35% Non-fibrous (Other)	None Detected
HA: 3					

Analyst(s)

Anthony Sanaie (7)

Kyle Rich (17)

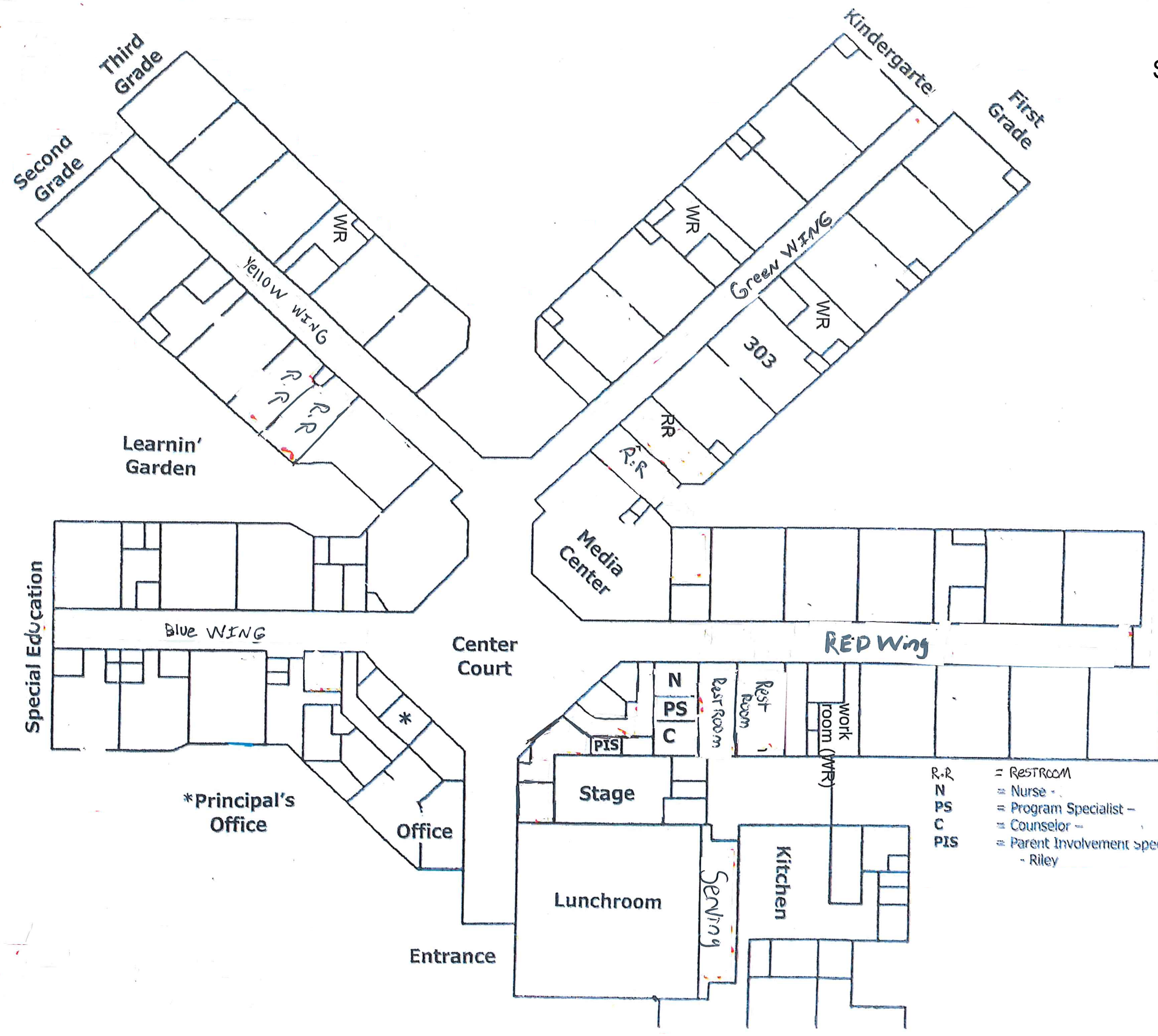
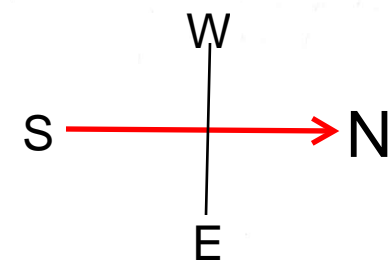
Michael Murphy  
or Other Approved Signatory

EMSL maintains liability limited to cost of analysis. The above analyses were performed in general compliance with Appendix E to Subpart E of 40 CFR (previously EPA 600/M4-82-020 "Interim Method"), but augmented with procedures outlined in the 1993 ("final") version of the method. 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. Interpretation and use of test results are the responsibility of the client. All samples received in acceptable condition unless otherwise noted. This report must not be used by the client to claim product certification, approval, or endorsement by NVLAP, NIST or any agency of the federal government. EMSL recommends gravimetric reduction for all non-friable organically bound materials prior to analysis. Estimation of uncertainty is available on request.

Samples analyzed by EMSL Analytical, Inc Smyrna, GA NVLAP Lab Code 101048-1

Initial report from: 02/06/2019 14:18:30

**UPDATED 3 YEAR RE-INSPECTION MAPS**



- R.R = RestRoom
- N = Nurse -
- PS = Program Specialist -
- C = Counselor -
- PIS = Parent Involvement specialist - Riley

**INSPECTOR ACCREDITATION CERTIFICATE**

THE UNIVERSITY OF ALABAMA®

UA SafeState

has examined the documentation of asbestos training and qualifications of the  
person named below and confers this

# Certificate of Accreditation

For the Asbestos Contractor Discipline

**INSPECTOR**  
Alexander J Cordan

Alabama Accreditation Number  
**AIN0518678077**

Certificate Expiration Date  
**May 3, 2019**

This certificate has been issued pursuant to the authority granted to The University of Alabama SafeState Program by the Alabama Asbestos Contractor Accreditation Act, Alabama Act No. 89-517, May, 1989 and Alabama Act No. 97-626, May, 1997.



Executive Director



Associate Director for Environmental Programs



WIREFRASS  
ENVIRONMENTAL

---

Mold Free Solutions

Environmental Strategic Plan

Capital Improvement 2019

Kelly Springs Elem. School

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Executive Director



Associate Director for Environmental Programs

**STANDARD OPERATING PROCEDURES  
FOR ASBESTOS CONTAINING  
MATERIALS & ASSUMED ASBESTOS  
CONTAINING MATERIALS**

**DOTHAN CITY SCHOOLS  
PROJECT No.: 19-230918.02-5**

Presented By:

WIREGRASS ENVIRONMENTAL  
812 UNIVERSITY AVENUE  
TROY, AL 36081

APRIL 11, 2019

PREPARED BY:

HIGHLAND TECHNICAL SERVICES, INC.  
528 MINERAL TRACE  
BIRMINGHAM, ALABAMA 35244  
PHONE: (205) 985-4874      FAX: (205) 987-6080

## CERTIFICATION

These standard operating procedures has been prepared by a registered and certified Alabama Asbestos-Related and Lead-Based Paint Activity discipline Project Designer. These SOPs are intended for use as a part of the project specifications prepared for the City of Dothan schools in Dothan, Alabama. This plan is limited to asbestos and lead based paint and does not include mold or other environmental contaminants.



Judith A. Pike, P.E.

AL Asbestos Project Designer No. APD0113288237 AL Lead-Based Paint Designer No. LPD1218288237

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## PART 1 – GENERAL

### APPLICABLE PUBLICATIONS:

The publications listed below form a part of this specification to the extent referenced.

#### General Publications:

U.S. Environmental Protection Agency. "*Measuring Airborne Asbestos Following an Abatement Action*" USEPA 600/4-85-049 "Silver Book"

U.S. Environmental Protection Agency. "*Asbestos in Buildings: Simplified Sampling Scheme for Surfacing Materials.*" USEPA 560/5-85-030

U.S. Environmental Protection Agency. "*Guidance for Controlling Asbestos Containing Materials in Buildings.*" USEPA 560/5-85-024 "Purple Book"

U.S. Environmental Protection Agency. "*Abatement of Asbestos Containing Pipe Insulation.*" USEPA Technical Bulletin No. 1986-2

U.S. Environmental Protection Agency. "*A Guide to Respiratory Protection for the Asbestos Abatement Industry.*" USEPA 560/OPTS-86-001

#### Federal Standard:

Fed. Std. 595 Colors & Notice 4

#### Code of Federal Regulations (CFR) Publications:

29 CFR 1910.1001	Asbestos - General Industry
29 CFR 1926.62	Lead Exposure in Construction, Interim Rule
29 CFR 1926.1101	Asbestos – Construction Industry
29 CFR 1910.134	Respiratory Protection
29 CFR 1910.145	Specifications for Accident Prevention Signs and Tags
29 CFR 1926.50	Medical Services and First Aid
29 CFR 1926.59	Hazard Communication
29 CFR 1926.100	Head Protection
29 CFR 1926.101	Eye and Face Protection
29 CFR 1926.150	Fire Protection
29 CFR 1926.515	Fire Prevention Plan
29 CFR 1926.301	Hand Tools
29 CFR 1926.30	Power Operated Hand Tools
29 CFR 1926.404	Electrical Wiring Design and Protection
29 CFR 1926.405	Temporary Electrical Wiring
29 CFR 1926.450	Ladders
29 CFR 1926.451	Scaffolding

29 CFR 1926.1200	Hazard Communications
29 CFR 1910.147	Control of Hazardous Energy (Lockout- Tagout)
29 CFR 1910.146	Confined Space Entry
29 CFR 1910.1030	Bloodborne Pathogens
29 CFR 1910.141	Sanitation For Construction
40 CFR 61,	General Provisions, Subpart A
40 CFR 61,	National Emission Standard for Asbestos,
Subpart B 40 CFR PART 763	Asbestos Containing Materials in Schools

American National Standard Institute (ANSI) Publications:

Z9.2-79 Fundamentals Governing The Design and Operation of Local Exhaust System

Z88.2-80 Practices for Respiratory Protection

State of Alabama Act No. 97-553, The Lead Reduction Act of 1997

Alabama Department of Public Health Chapter 420-3-27 Lead Hazard Reduction Contractor Certification

ADEM Admin Code R 335-13-9 Solid Waste ADEM Division 14 Hazardous Waste Program

All state, county and city codes and ordinances as applicable. Make available for review at the site one copy of EPA, OSHA, state, county and city regulations.

## **1.0. PROJECT INFORMATION**

The buildings identified in the scope of work have been determined to have asbestos containing materials (ACMs) or have assumed ACMs. Based on the construction dates, it should be assumed that paint films both within and without the buildings be considered as lead containing. It also should be assumed that additional regulated materials are present such as mercury and PCBs. Light fixtures, fluorescent bulbs, LED bulbs, ballasts, thermostats and any additional items that may be regulated under the Resource Conservation and Recovery Act (RCRA) shall be separated from other waste streams and disposed in accordance with State & Federal.

Contractors will be responsible for the removal of any school equipment or other property that remains in the designated work areas. All items shall be cleaned at a minimum with a HEPA vacuum and stored in a contractor supplied locked storage container that is weathertight.

## **2.0. ASBESTOS PROJECT NOTIFICATION**

The Alabama Department of Environmental Management (ADEM) requires notification using ADEM Form 496 at least ten (10) weekdays not including holidays prior to disturbing any regulated asbestos containing material (RACM). Forms shall be submitted to the following:

Mr. Don Barron ADEM- Air Division  
P.O. Box 301463 Montgomery, AL 36130-1463  
Email: [asbestosmail@adem.state.al.us](mailto:asbestosmail@adem.state.al.us)

## **3.0. SUBMITTALS**

The following items shall be submitted to and approved by the Project Professional prior to commencing work involving asbestos materials.

### 3.1 Asbestos/LBP Plan:

Submit a detailed plan of the work procedures to be used in the removal and demolition of materials containing asbestos and/or lead based paint. Such plan shall include location of asbestos control areas, layout of any change rooms, interface of trades involved in the sequencing of asbestos work, disposal plan, type of wetting agent to be used, air monitoring, and a detailed description of the methods to be employed in order to control contamination to surrounding areas, and exposure to airborne asbestos fibers. This plan must be submitted and approved prior to the start of any asbestos/LBP work.

### 3.2 Air Monitor:

Submit the name, address, and telephone number of the Air Monitor selected for performing required air sampling for this project which includes: background, inside work area, outside work area, and personnel monitoring. The Air Monitor shall produce reports of air sampling that include concentrations of asbestos fibers from each sample as well as the collection and analytical methods utilized. The Air Monitor analyzing samples shall provide written proof that they have been evaluated and judged proficient by successful participation in an accredited Proficiency Analytical Testing (PAT) Program.

### 3.3 Notification:

Notify the ADEM a minimum of ten (10) working days prior to the start of asbestos work. Notify the local fire and police departments a minimum of five (5) days prior to removing any asbestos containing material from buildings.

### 3.4 Landfill:

Submit written evidence that the landfill for disposal is approved for asbestos disposal by the ADEM prior to beginning removal.

### 3.5 Local Exhaust System (Where Applicable):

The local exhaust system, which maintains negative pressure, for the Work Area shall be

operated continuously 24 hours a day until removal and final cleaning is complete. The work area containment shall have a measurable pressure differential of at least 0.02 inches of water. At least eight (8) air changes per hour must be supplied by the local exhaust ventilation system. The local exhaust ventilation system must be equipped with HEPA filtration.

The number and type of LEV equipment to be utilized, CFM ratings, and placement location should be included in the Asbestos Plan submittal.

The Project Professional, may require pressure differential recordings for each work day. If required, the Asbestos/LBP Contractor (ALC) shall provide pressure differential monitoring equipment.

Pressure differential monitoring, when required, shall be reviewed by the Air Monitor each work day. The Air Monitor shall notify the ALC and the Project Professional immediately of any pressure increase above the minimal requirements, which could cause exposure of adjacent unsealed areas to asbestos fiber concentrations.

### 3.6 Daily Log:

Within ten (10) days of completion of all abatement activities, submit copies of daily work area logs showing the following at a minimum: ALC name, Supervisor name, Air Monitor name, Date, entry time and exit time for each person who enters the work area. Should multiple work areas be utilized simultaneously, the ALC shall provide a daily log for each work area.

### 3.7 Landfill Receipts:

Within ten (10) days of completion of all abatement activities, submit receipts from landfill operator which acknowledge the Contractor's delivery(s) of waste material. Receipts shall include date, quantity of material delivered, structure identifications, and signature of authorized representative of landfill.

### 3.8 Respirator Program:

The ALC shall provide a copy of their written respiratory protection program. This program shall be compliant with standards and regulations set forth 29 CFR 1910.134.

### 3.9 Certificate of Visual Inspection:

This Certification is to be completed by the ALC and certified by the Air Monitor. Submit completed certificate with application of final payment. Final payment will not be made until this certificate is executed.

### 3.10 Insurance:

The ALC shall provide written Certification from the insurance company acknowledging and agreeing that the coverage under that policy shall specifically include all operations of asbestos abatement required in the performance of the work, and be True Occurrence Insurance. The limits of insurance shall be in the amounts required by State Statues and by the General Conditions of this specification. The Owner, Architect and Asbestos Abatement Consultant (Project Professional) are to be shown as certificate holders and are to be named as additional insured for coverage under this policy.

### 3.11 State Licenses/Certificates:

Submit current copies of State of Alabama Asbestos Certificates for the following:

- Contractor (including any subcontractors performing asbestos work)
- Supervisor (all utilized during the project)
- Air Monitor- NIOSH 582 or equivalent training (all utilized during the project)
- Workers (all utilized during the project)

## PART 2 – EXECUTION

### 4.0. GENERAL

#### 4.1 Title to Materials:

All materials resulting from demolition work, except as specified otherwise, shall become the property of the ALC and shall be disposed of as specified here in.

#### 4.2 Protection of Existing Work to Remain:

Perform demolition work without damage to underlying substrates or equipment or contamination of adjacent areas. Should substrates, equipment, or adjacent areas become damaged or contaminated, the ALC shall restore the substrate, equipment, or adjacent area to its pre-damaged or pre-contaminated condition.

#### 4.3 Medical Requirements:

The ALC shall comply with the medical examination requirements and medical record retention requirements set forth in 29 CFR 1926.1101 and 29 CFR 1926.134.

#### 4.4 Training:

Prior to assignment to asbestos and/or lead based paint work, instruct each employee with regard to the hazards of asbestos, safety and health precautions, and the use and requirements for protective clothing and equipment including respirators. Fully cover engineering and go over hazard control techniques and procedures.

#### 4.5 Permits and Notifications:

Secure necessary permits in conjunction with asbestos removal, hauling, and disposal and provide timely notification of such actions as may be required by federal, state, regional, and local authorities regarding handling, storing, transporting, and disposing of asbestos waste materials. Comply with the applicable requirements of the current issue of

29 CFR 1910.1001, 29 CFR 1926.1101 and 40 CFR 61, Subparts A and B. Submit matters of interpretation of standards to the appropriate administrative agency for resolution before starting the work. Where the requirements of this specification and referenced documents vary, the most stringent requirement shall apply.

## 5.0. EQUIPMENT

### 5.1. General Personal Protective Equipment:

During all preparation work, all removal work, and final cleaning work, the ALC shall require that all persons who enter the work area wear at a minimum: a half mask respirator equipped with P100 cartridges, gloves, safety glasses, and disposable protective clothing equipped with head and foot coverings. Additional PPE may be necessary based on project conditions.

If the ALC feels these PPE requirements are not necessary, the ALC shall submit negative exposure assessments documenting asbestos air concentrations for like work to the Project Professional for consideration.

### 5.2. Respirators:

The ALC shall select and provide respirators from those rated by the National Institute for Occupational Safety and Health (NIOSH) and fulfill the requirements of OSHA 1910.134. Respirator selection and use for this project must be in accordance with the Contractor's Respiratory Protection Plan and the level of respiratory protection provide must be based upon project specific conditions.

### 5.3. Special Clothing:

Provide personnel exposed to airborne concentrations of asbestos fibers with fire retardant disposable protective whole-body clothing, head coverings, gloves, and foot coverings. Provide disposable plastic or rubber gloves to protect hands. Cloth gloves may be worn inside the plastic or rubber gloves for comfort, but shall not be used alone. Make sleeves secure at the wrists and make foot coverings secure at the ankles by the use of tape.

**5.4. Change Rooms (where necessary):**

Provide a temporary unit with separate decontamination locker room and a clean locker room for personnel required to wear whole body protective clothing. Provide two separate lockers for each asbestos worker, one in each locker room. Keep street clothing and street shoes in the clean locker. Vacuum and remove asbestos contaminated disposal suit with a HEPA vacuum, protective clothing while still wearing respirators at the boundary of the asbestos work area and seal in

impermeable bags or containers for disposal. Do not remove disposable protective clothing in the decontamination locker room. Remove cloth work clothing in the decontamination room. Tag and bag cloth work clothes for laundering and keep work shoes in the decontamination locker. Do not wear work clothing between home and work. Locate showers between the decontamination locker room and the clean locker room and require that all employees shower before changing into street clothes. Clean asbestos contaminated work clothing in accordance with 29 CFR 1926.1101. Change rooms shall be physically attached to the asbestos control area.

**5.5. Caution Signs and Labels:**

Provide caution signs at all approaches to asbestos/lead control areas containing concentrations of airborne asbestos fibers and/or lead. Bilingual signs shall be utilized when workers or others in the vicinity of the work area have a primary language other than English. Locate signs at such a distance that personnel may read the sign and take the necessary protective steps required before entering the area.

Provide labels and affix to all asbestos materials, scrap, waste, debris, and other products contaminated with asbestos. Provide labels and affix to all lead materials, scrap, waste, debris, and other products contaminated with lead paint.

**5.6. Caution Sign:**

Vertical format conforming to 29 CFR 1926.1101 (K) (6) (ii), minimum 20 by 14 inches



displaying the following legend in the lower panel: The signs shall bear the following information:

**DANGER ASBESTOS**  
**MAY CAUSE CANCER CAUSES DAMAGE TO LUNGS**  
**WEAR RESPIRATORY PROTECTION AND PROTECTIVE CLOTHING IN THIS AREA**  
**AUTHORIZED PERSONNEL ONLY**

**WARNING**  
**LEAD WORK AREA**  
**POISON**  
**NO SMOKING OR EATING**

## **6.0. SAMPLING**

### **6.1. Monitoring During Asbestos Work:**

The Air Monitor shall provide area air monitoring daily throughout the removal and cleaning process to document fiber concentrations from inside the work areas and outside the work areas. The Air Monitor shall also conduct personnel air monitoring for ALC workers performing removal and cleaning work within the work areas.

The Air Monitor shall collect and analyze air samples daily. The sample numbers required will depend on the sequence of work but in general shall include a minimum two (2) inside work area samples, two (2) samples outside the building, and two (2) samples outside each barrier separating work areas from other building spaces.

Where negative air enclosures and decontamination units are required by project conditions, air samples shall be collected at negative air discharges, and the clean room of the decon unit.

Air samples shall be collected continuously during occupied work shifts. All sample analysis reports shall be reported within twenty-four (24) hours to the ALC and to the Project Professional.

If monitoring outside the asbestos control area shows airborne concentrations have reached 0.01 fibers/cc, stop all work, correct the conditions causing the increase and notify the Project Professional immediately.

The Air Monitor shall provide an Air Monitoring Report at the conclusion of the project. The report shall include a typed sheet for each sample including the sample location, the sample number, the sampling date, the pump number, the sampling duration, the sample flow rate in liters per minute, the total volume in liters, the total fibers counted total fields counted, the total fibers counted in the field blank, the total fields counted in the field blank, the filter area in millimeters squared, the Graticule field area, the fiber concentration standard in fibers/cc, the fibers/cc, the limit of quantification, the 95% upper confidence limit, and the name of the person performing the Phase Contrast Microscopy.

**6.2. Clearance Monitoring After Final Clean-Up:**

Asbestos

The Air Monitor shall provide clearance air monitoring for each work area after the final clean up and visual inspection is completed. Each work area must pass the final visual inspection before clearance air samples can be collected. None of the samples collected from within the work area may equal or exceed 0.01 fibers/cc, in order for the work area to meet clearance criteria.

The fiber counts from all clearance samples from a work area shall be less than 0.01 fibers/cc in order to meet clearance criteria. Should any of the final samples indicate a higher value, the Contractor shall take appropriate action to reclean the area and shall be responsible for additional compensation for air monitoring from that point forward.

All clearance sampling should be done "aggressively" as described in Section M.1.5 of the EPA Purple Book. The ALC shall furnish required fans and leaf- blower for "aggressive" sampling.

Lead (Child occupied buildings only)

Lead Abatement Clearance criteria shall be as follows:

<u>Surface</u>	<u>Leaded Dust Loading (<math>\mu\text{g}/\text{ft}^2</math>)</u>
Floors	<u>Wipe Only</u> 40
Interior Window Sills (Stools)	250
Window Troughs	800
Exterior	400

All costs associated with clearances including re-tests shall be borne by the contractor. Should laboratory results indicate that the wipe test clearance level is exceeded, re-clean the affected area, at no additional cost to Owner, utilizing the methods specified above.

Wipe samples will be collected from location selected by an Alabama licensed Inspector/Risk Assessor.

## 7.0. DISPOSAL

Collect asbestos waste, scrap, debris, bags, containers, equipment, and lead/asbestos contaminated clothing which may produce airborne concentrations of asbestos fibers or lead and place in sealed impermeable bags. All materials shall be doubled bagged. Affix a caution label and a generator identification label to each bag in accordance with 1990 NESHAPS requirements. All asbestos waste will, after decontamination of container, be transferred from containment area to truck at hours approved by the Project Professional. As a minimum, the employees making this transfer will wear a half mask respirator equipped with HEPA filters, and disposable coveralls of a different color than those worn in the containment area. Dispose of waste asbestos material (by burial under at least 6 inches of daily compacted cover of non-asbestos materials and by final cover of at least two feet (2 FT) of compacted earth) at a landfill permitted to receive asbestos. Procedure for hauling and disposal shall comply with 40 CFR 61 (Subpart B) state, regional, and local standards. Sealed plastic bags may be dumped from drums into the burial site unless the bags have been broken or damaged. Damaged bags shall remain in the drum and the entire contaminated drum shall be buried. Uncontaminated drums may be recycled. Workers unloading the sealed drums shall wear appropriate respirators and personal protective equipment when handling asbestos materials at the disposal site. A manifest of each trip to the landfill must be obtained and a copy furnished to the Project Professional. This manifest should show the number

of barrels or bags received, and state that they were disposed of properly.

## **8.0. STANDARD OPERATING PROCEDURES**

Standard Operation Procedures (SOPs) have been developed for most instances of handling ACMs or assumed ACMs following this section. In the event that additional ACMs or suspects ACMs are discovered the ALC shall contact the Project Professional prior to disturbing any additional areas so that a determination can be made of the material and its regulatory status.

## 9.0. Anchoring Protocol

### Summary

This Standard Operating Procedure covers work, which is required to remove asbestos- containing floor tile and/or mastic.

### Examples

1. Removal of several floor tiles that are loose or can be removed by hand methods with minimal or no breakage, and tile and/or mastic does not become friable.
2. Remove a small area of well-adhered tile and/or mastic that is not likely to become friable.
3. Remove several floor tiles and mastic to drill hole(s) in sub floor to attach object to floor or install a pipe or conduit. (Anchoring Protocol)
4. Remove broken tiles after removal of a wall (framed, block, brick, masonry or CMU) with minimal or no breakage, and tile and/or mastic does not become friable.

### Related Work Practices

1. Transporting, Storing, and Disposing
2. Area Air Monitoring
3. Personal Air Monitoring

### Worker Recommendations

One worker is required but more may be needed to increase the safety and efficiency considerations. An air-monitor with NIOSH 582 is required. This person cannot be a worker.

### Notes

Air monitoring is required unless a Negative Exposure Assessment (NEA) has previously been made by the ALC. If material breaks/crumbles up into small pieces, air monitoring will be performed regardless.

**Warning:** Do not sand resilient flooring.

## Work Practices

1. Secure the work area, limiting entry to certified personnel only. Verify that a negative exposure assessment (NEA) has been established.
1. If an NEA cannot be verified, stop work and call air monitor to perform air monitoring.
2. Use the following procedure to remove resilient tile floor covering: Floor tiles must be wetted with amended water (misted with a garden sprayer) before actual removal begins unless heat will be used to remove tiles.
3. Start removal by carefully wedging a wall scraper in the seam of two adjoining tiles and gradually forcing the edge of one of the tiles up and away from the floor. Continue to force the balance of the tile up by working the scraper beneath the tile. Exert both a forward pressure and a twisting action on the blade to promote release of the tile from the adhesive and the floor.
5. When the tile is removed, place it in a disposal bag without breaking it into smaller pieces.
6. If it is necessary to remove more tiles to accomplish the work, after the first tile is removed and accessibility to other tiles is improved, force the scraper under the exposed edge of another tile. Continue to exert a prying/twisting force to the scraper as it is moved under the tile until the tile releases from the floor. Again, dispose of the tile by placing in a waste bag or waste container without additional breaking. Continue in this manner until enough tiles are removed to accomplish the work.
7. Force the scraper through tightly-adhered areas by striking the scraper handle with a hammer using blows of moderate force while maintaining the scraper at a 25 to 30 degree angle to the floor. The resilient floor covering manufacturers' work practices recommend the use of safety goggles during this work.
8. Place loosened adhesive residues into a waste bag or waste container.
9. Wipe remainder of residue with absorbent towels and dispose of in appropriate container.
10. Continue the above steps until what remains of the residual asphaltic mastic is gone.
11. Within the work area, seal the disposal bag when the work is complete.

## **Remove or Replace a Component/Object Attached to Surfacing Material**

### **SUMMARY**

This Standard Operating Procedure covers work required to perform removal of objects that are attached to surfacing material such as spray on fireproofing on structures or acoustical ceilings.

### **Examples**

The following are examples of work that is performed using this procedure. If job conditions vary from the examples or if more than three square feet of material has to be removed stop work and notify the Environmental Compliance Branch.

1. Remove exit light or ceiling mounted fixtures that are attached to asbestos-containing material (ACM) acoustical ceiling.
2. Remove fire/security detectors attached to acoustical ceiling.
3. Remove pipe hanger embedded in fireproofing.
4. Installing additional components.

### **Related Work Practices**

1. Transportation, Storage, and Manifesting.
2. Area Air Monitoring
3. Personal Air Monitoring

## **Major Fiber Release Episode**

### **Summary**

This standard operating procedure covers work, which is required in the event of the falling or dislodging of friable asbestos-containing material (ACM) that is more than 3 ft<sup>2</sup> or linear feet.

### **Examples**

The following are examples of work that is performed using this procedure. If job conditions vary from the examples stop work and notify the Environmental Professional.

1. Clean up of more than 3 ft<sup>2</sup> of delaminating friable surfacing material.
2. Clean up of more than 3 linear feet of friable Thermal System Insulation or ACM mudded fittings on pipes.
3. Clean up of more than 3 ft<sup>2</sup> of damaged friable ACM ceiling tile.

### **Related Work Practices**

1. Transporting, Storing, and Manifesting
2. Personal Air Monitoring
3. Area Air Monitoring

### **Worker Recommendations**

One worker is required but more may be needed to increase the safety and efficiency considerations. An air monitor with NIOSH 58 is required. This person cannot be utilized as a worker.

### **Notes**

Air monitoring is required unless a Negative Exposure Assessment (NEA) has previously been made by the ALC. Major fiber release episodes are required to be designed by a project designer.

### **Work Practice**

1. Isolate the area and post signs to prevent entry of persons other than those necessary to perform the response action.
2. Thoroughly saturate the debris using wet methods.
3. Place the asbestos debris in a sealed leak tight container.
4. HEPA vacuum or wet clean the floor and all horizontal surfaces.
5. Repair the area with non- asbestos materials or encapsulate.
6. Remove suit. Wet and wipe hands, face, and respirator.
7. Double bag all asbestos waste.
8. Place asbestos waste in designated asbestos waste containers.
9. Fill out waste manifest.

## Install Wiring in a Plenum Space Where Exposed Surfacing is Present

### Summary

This standard operating procedure covers work required to perform installation of various wiring and conduit in the ceiling plenum which contains asbestos-containing material (ACM) spray on surfacing/fireproofing.

### Examples

The following are examples of work that can be performed using this procedure when there is a small amount of dust or debris from the ACM surfacing treatment or other ACM on top of the ceiling tiles or if the ACM surfacing is close enough to the work that it could be disturbed.

1. Installing electrical wiring and conduits that will lie on top of the ceiling.
2. Installing new plenum rated computer or telephone cables.

### Related Work Practices

1. Transportation, Storage, and Manifesting.
2. Area Air Monitoring
3. Personal Air Monitoring

### Worker Recommendations

Two or more workers may facilitate pulling wires between two locations. A third person eases installation by being outside containment feeding and marking/numbering wire spools. An air monitor with NIOSH 582 is required. The air monitoring person cannot be utilized as a worker.

### Notes

Air monitoring is required for this procedure. If a Negative Exposure Assessment (NEA) has been established by the ALC for this work procedure, the NEA may be used instead of the air monitoring.

## Work Practices

1. Isolate the work area limiting entry to authorized personnel only.
2. Post warning signs.
3. Erect a containment area if there is a potential for a spill of friable fireproofing spray on. If tile is presumed or known to be clean above a secondary containment barrier can be used.
4. Use the HEPA vacuum and/or negative pressure system for local exhaust system.
5. Put on a suit and respirator before lifting a ceiling tile.
6. HEPA vacuum ceiling grid and the top of the tile all visible debris.
7. Wet wipe any wire system components that come in contact with ACM. Place wet wipes and any debris into disposal bags.
8. After task has been performed wet wipe and HEPA vacuum the inside of the containment if used. Place cleaning materials in a disposal bag. HEPA vacuum suit. Remove the suit and place in a disposal bag.
9. Wet wipe hands and face. Then remove respirator.
10. Double bag and return asbestos waste materials to the designated asbestos waste container
11. Complete waste manifest forms.

## **Glove Bag Asbestos Containing Insulation or Mudded Pipe Fittings on Exposed Pipe for Maintenance Work**

### **Summary**

This standard operating procedure covers work, which is required for removing a small amount ( $\leq 3$  ft<sup>2</sup> or 3 linear feet) of asbestos-containing insulation on an exposed pipe or asbestos-containing material (ACM) pipe fittings by glove bag methods.

### **Examples**

The following example relies on careful glove bag installation and a combination of handling, wetting, and use of the HEPA vacuum.

Remove a pipe fitting in a mechanical room.

### **Related Work Practices**

1. Transportation of Asbestos Materials
2. Storage and Disposal of Asbestos Materials
3. Personal Air Monitoring

### **Worker Recommendation**

Two workers wearing personal protective equipment are required. An air-monito with NIOSH 582 is required. The air monitoring person cannot be a worker.

### **Notes**

Air monitoring is required for this procedure. If a Negative Exposure Assessment (NEA) has been established by the ALC for this work procedure, the NEA may be used instead of the air monitoring.

## Work Practice

1. Isolate the work area limiting entry to authorized personnel only.
2. Post warning signs.
3. Place necessary tools into the glove bag.
4. Glove bags should be 6mil. polyurethane and taped or otherwise sealed around material to be removed. The bottom of the glove bag must be reinforced with duct tape. Glove bags shall be smoke tested for leaks. Glove bags may be used only once and may not be moved.
5. Attach HEPA vacuum and spray nozzle to bag.
6. Adequately wet insulation to be removed.
7. If present, cut the bands holding insulation in place.
8. Slice lagging with a razor knife at joints between sections of insulation and lengthwise at joints between clamshell halves.
9. Open insulation clamshell and place intact into an asbestos disposal bag. Do not drop.
10. Scrub pipe and fitting with plastic brushes and Scotchbrite pad. Wet wipe surfaces to remove any ACM residue.
11. Encapsulate exposed edges of pipe insulation.
12. Use HEPA vacuum to evacuate the bag then seal the holes with duct tape where the vac and spray nozzle were.
13. Double bag all asbestos waste materials and place in the designated asbestos waste container.
14. Fill out waste manifest forms.

## Remove Asbestos Floor Tile

### Summary

This Standard Operating Procedure covers work, which is required to remove asbestos- containing floor tile and/or mastic.

### Examples

1. Removal of several floor tiles that are loose or can be removed by hand methods with minimal or no breakage, and tile and/or mastic does not become friable.
2. Remove a small area of well-adhered tile and/or mastic that is not likely to become friable.
3. Remove several floor tiles and mastic to drill hole(s) in sub floor to attach object to floor or install a pipe or conduit.

### Related Work Practices

1. Transporting, Storing, and Disposing
2. Area Air Monitoring
3. Personal Air Monitoring

### Worker Recommendations

One worker is required but more may be needed to increase the safety and efficiency considerations. An air-monitor with NIOSH 582 is required. This person cannot be a worker.

### Notes

Air monitoring is required unless a Negative Exposure Assessment (NEA) has previously been made by the ALC. If material breaks/crumbles up into small pieces, air monitoring will be performed regardless.

**Warning:** Do not sand resilient flooring.

## Work Practices

1. Secure the work area, limiting entry to certified personnel only. Verify that a negative exposure assessment (NEA) has been established.
2. If an NEA cannot be verified, stop work and call air monitor to perform air monitoring.
3. Use the following procedure to remove resilient tile floor covering: Floor tiles must be wetted with amended water (misted with a garden sprayer) before actual removal begins unless heat will be used to remove tiles.
4. Start removal by carefully wedging a wall scraper in the seam of two adjoining tiles and gradually forcing the edge of one of the tiles up and away from the floor. Continue to force the balance of the tile up by working the scraper beneath the tile. Exert both a forward pressure and a twisting action on the blade to promote release of the tile from the adhesive and the floor.
5. When the tile is removed, place it in a disposal bag without breaking it into smaller pieces.
6. If it is necessary to remove more tiles to accomplish the work, after the first tile is removed and accessibility to other tiles is improved, force the scraper under the exposed edge of another tile. Continue to exert a prying/twisting force to the scraper as it is moved under the tile until the tile releases from the floor. Again, dispose of the tile by placing in a waste bag or waste container without additional breaking. Continue in this manner until enough tiles are removed to accomplish the work.
7. Force the scraper through tightly-adhered areas by striking the scraper handle with a hammer using blows of moderate force while maintaining the scraper at a 25 to 30 degree angle to the floor. The resilient floor covering manufacturers' work practices recommend the use of safety goggles during this work.
8. Place loosened adhesive residues into a waste bag or waste container.
9. Wipe remainder of residue with absorbent towels and dispose of in appropriate container.
10. Continue the above steps until what remains of the residual asphaltic mastic is gone.
11. Within the work area, seal the disposal bag when the work is complete.

## Remove a Non - Damaged Fire Door and/or Door Hardware

### **SUMMARY**

This work practice covers the procedure for removal of asbestos-containing fire door or door hardware in an asbestos containing fire door. This procedure does not cover cutting or drilling into asbestos containing fire doors.

### **Examples**

The following are examples of work that can be performed using this procedure. If job conditions vary from the examples stop work and notify the Environmental Professional

1. Remove an asbestos-containing fire door that is in good condition for replacement.
2. Replace a lockset or closer on asbestos-containing fire door in good condition.

### **Related Work Practices**

1. Transportation, Storage, and Manifesting.

### **Worker Recommendation**

Two workers are required for this procedure to facilitate handling of heavy doors during removal and disposal preparation.

### **Notes**

Not applicable

## Work Practice

1. Secure the work area limiting entry to certified personal only and materials needed in work area.
2. Tape damaged areas with duct tape to prevent a fiber release.
3. Place tools, equipment, and materials needed in work area.
4. If door is equipped with a closer, detach closer arm from doorframe. Remove screws attaching closer to door. HEPA vacuum or wet clean screws, closer, and area where closer was attached to door. Thoroughly clean closer and parts if they will be re-used. If closer will not be re-used, dispose of it as asbestos-containing materials (ACM) waste.
5. HEPA or wet wipe vacuum lockset if it will be re-used or disposed of as ACM waste.
6. Lay two layers of 6 mil. polyethylene sheet plastic on floor for wrapping door.
7. Remove hinge pins or screws attaching hinges to doorframe. Lay door on the sheet plastic.
8. If hinges are to be re-used, remove from door following procedures used for closer. If hinges are to be disposed of, leave hinges attached to door.
9. Wrap door with the sheet plastic and seal using duct tape.  
**Note:** Wrapped door must have warning label, DOT hazard class, identification number, packing class, and generator label on it.
10. Place door in designated asbestos waste container.

Complete the waste manifest forms.

## Minor Fiber Release

### Summary

This standard operating procedure covers work which is required to perform actions in the event of falling or dislodging of 3 ft<sup>2</sup> or linear feet or less of friable asbestos-containing material (ACM).

### Examples

The following are examples of work that is performed using this procedure. If the amount of friable ACM exceeds 3 ft<sup>2</sup> or linear feet notify Environmental Professional and different actions will be taken as it becomes a Major fiber release.

1. Action of small amount  $\leq 3$  ft<sup>2</sup> of Surfacing material (acoustical ceiling) delaminating from substrate.
2. Action of small amount  $\leq 3$  ft<sup>2</sup> of damaged Thermal System Insulation or ACM mudded fittings on pipes.
3. Action of damaged ACM ceiling tile that is  $< 3$  ft<sup>2</sup>.

### Related Work Practices

1. Any action involving a possible fiber release from performing a project that consist of  $\leq 3$  ft<sup>2</sup> of falling or dislodged friable ACM.

### Notes

Perform air monitoring. A Negative Exposure Assessment may be used if previously established.

### Work Practice

1. Perform air monitoring (area and personal).
2. Thoroughly saturate the debris using wet methods.
3. Place the asbestos debris in a sealed, leak-tight container.
4. HEPA vacuum or wet clean the floor and all horizontal surfaces
5. Repair the area with non-asbestos materials or encapsulate.
6. Remove the disposal bag and place the bag into the transportation vehicle. The waste must be handled to prevent breakage, rupture, or leakage during loading. If the disposal bag breaks, ruptures, or leaks during handling:

7.
  - A. Stop immediately and isolate the area if necessary. Follow the appropriate fiber release episode response (either minor or major).
  - B. Repair/Replace the disposal bag.
  - C. Thoroughly clean the area.
8. Place the disposal bag(s) in the designated the asbestos waste storage container. Disposal bag(s) should be placed in the asbestos waste storage container no later than the end of the next work shift.
9. The manifest and recordkeeping must be completed immediately following the completion of the project/task.

## **Cutting or Drilling Asbestos-Containing Drywall, Plaster, or Drywall Compound**

### **SUMMARY**

This work practice covers the procedures for cutting or drilling asbestos-containing drywall, plaster, or drywall compound.

### **Examples**

The following are examples of work that can be performed using this procedure. If job conditions vary from the examples stop work and notify the Environmental Professional.

1. Cut a hole into drywall, plaster, drywall compound where there is less than three ft<sup>2</sup> of material.
2. Drill a hole to attach an object in drywall, plaster, or drywall compound.
3. Drill a hole in asbestos-containing joint compound where the drywall is non-asbestos.

### **Related Work Practices**

1. Transportation, Storage, and Manifesting.
2. Area Air Monitoring
3. Personal Air Monitoring

### **Worker Recommendation**

Two workers are required for this procedure. A certified air-monitor NIOSH 582 is required. The air monitoring person cannot be a worker.

### **Notes**

Air monitoring is required for this procedure. If a Negative Exposure Assessment (NEA) has been established by the ALC for this work procedure, the NEA may be used instead of air monitoring.

## Removal of a Non-Asbestos Ceiling Tile When Friable Material is Located Above (Asbestos Material Will Not Be Disturbed)

### **SUMMARY**

This Standard Operating Procedure covers work required for removing a non-asbestos ceiling tile in a lay-in ceiling system, such as a suspended ceiling when there is friable asbestos-containing material located above the ceiling tile. This work practice assumes that asbestos-containing material above the ceiling tile will not be disturbed.

### **Examples**

The following are examples of work that can be performed using this procedure. If job conditions vary from the examples, stop work and notify the Environmental Professional.

1. Performing work above the non-asbestos ceiling tile that will not disturb asbestos material above.
2. Replace a damaged, broken, or soiled non-asbestos ceiling tile without disturbing asbestos material.

### **Related Work Practices**

1. Transportation, Storage, and Manifesting.
2. Area Air Monitoring
3. Personal Air Monitoring

### **Worker Recommendation**

Two workers are required for this procedure. A certified air-monitor NIOSH 582 is required. The air monitoring person cannot be a worker.

### **Notes**

Air monitoring is required for this procedure. If a Negative Exposure Assessment (NEA) has been established by ALC for this work procedure, it may be used instead of air monitoring.

## **Removal of a Non- Asbestos Ceiling Tile When Friable Asbestos Material is Located Above (Asbestos Material Will Be Disturbed)**

### **SUMMARY**

This Standard Operating Procedure covers work required for removing a non-asbestos ceiling tile in a lay-in ceiling system, such as a 2' x 4' or 2' x 2' suspended ceiling for O&M work when there is friable asbestos-containing material (ACM) located above the ceiling tile. This work practice assumes that asbestos-containing material (ACM) above the ceiling tile will be disturbed.

### **Examples**

The following are examples of work that can be performed using this procedure. If job conditions vary from the example, stop work and notify the Environmental Professional.

1. Performing work above the non-asbestos ceiling tile that will disturb a small amount of asbestos material above.

### **Related Work Practices**

1. Transportation, Storage, and Manifesting.
2. Area Air Monitoring
3. Personal Air Monitoring

### **Worker Recommendation**

Two workers are required for this procedure. An air-monitor with NIOSH 582. The air monitoring person cannot be a worker.

### **Notes**

Air monitoring is required for this procedure. If a Negative Exposure Assessment (NEA) has been established by the ALC for this work procedure, the NEA may be used instead of air monitoring.

## Removal of Asbestos Ceiling Tile

### **SUMMARY**

This work practice covers the procedure for removing an asbestos-containing ceiling panel in a lay-in ceiling system/suspended ceiling. The practices assume that surfacing asbestos-containing material (ACM) is not present above the ceiling.

### **Examples**

The following are examples of work that can be performed using this procedure. If job conditions vary from the examples, stop work and notify the Project Professional.

1. Remove an asbestos-containing ceiling panel.
2. Remove a damaged, broken, or soiled asbestos-containing ceiling panel alone or in conjunction with work above ceiling.

### **Related Work Practices**

1. Transportation, Storage, and Manifesting.
2. Area Air Monitoring
3. Personal Air Monitoring

### **Worker Recommendation**

Two workers are required for this procedure. An air-monitor with NIOSH 582 training is required. The air monitoring person cannot be a worker.

### **Notes**

Air monitoring is required for this procedure. If a Negative Exposure Assessment (NEA) has been established by the ALC for this work procedure, the NEA may be used instead of air monitoring.

## Work Practice

1. Post warning signs on all entries to the area.
2. Erect a mini enclosure. Care must be taken not to disturb the surrounding ceiling if it is asbestos containing.
3. Use the HEPA vacuum and/or negative pressure system for local exhaust system.
4. Place the amended water spray wand, tools and equipment in the enclosure.
5. Put on suit and respirator before entering the enclosure.
6. Adequately wet ceiling panel(s), remove and place in disposal bag..
7. HEPA vacuum and wet wipe any grid/suspension system components exposed where panel(s) were removed. Place wet wipes and any debris into disposal bags.
8. Install new non-ACM ceiling panel.
9. Wet wipe and HEPA vacuum the inside of the mini-enclosure. Place cleaning materials in a disposal bag.
10. HEPA vacuum suit. Remove the suit and place in a disposal bag. Wet wipe hands, face, and respirator. Place towels in a disposal bag.
11. Exit the enclosure.
12. Double bag all waste materials.
13. Dismantle the mini enclosure and dispose in two layers of 6 mil. sheet polyurethane.
14. Place asbestos waste materials in designated ACM waste storage area
15. Fill out the waste manifest. Return them to the Environmental Professional.

## Remove Carpet Over ACM Floor Tile

### Summary

This Standard Operating Procedure covers work, which is required for removing carpet that has been installed over asbestos-containing material (ACM) floor tile. Depending on how well the carpet was adhered when installed, if it was in a high traffic area, and the amount of moisture the area has received will determine how many tiles will delaminate from the floor substrate in the carpet removal.

### Examples

The following are examples of work that can be performed using this procedure:

1. Remove carpet that is adhered to ACM floor tile for remodeling.
2. Remove carpet for floor tile abatement.

### Related Work Practices

1. Transporting, Storing, and Disposing
2. Personal Air Monitoring

### Worker Recommendation

Two workers are required. An air-monitor with NIOSH 582 air monitoring is required. The air monitoring person cannot be a worker.

### Notes

Air Monitoring may be required for this procedure if material is rendered friable. If a Negative Exposure Assessment (NEA) has been established by the ALC for this work procedure, the NEA may be used instead of the air monitoring.

## Personal Air Monitoring

### SUMMARY

This standard operating procedure covers work, which is required to perform worker exposure air monitoring.

### Examples

The following are examples of work that is performed using this procedure. If job conditions vary from the examples stop work and notify the Environmental Professional.

1. Controlled work areas where asbestos materials are present.
2. Controlled work areas where asbestos materials are suspected.
3. Any area where an employee wears a respirator because of a potential asbestos exposure.

### Worker Recommendation

One worker is required for this procedure. The worker must be NIOSH 582 equivalent. The air monitoring person cannot be a worker.

### Notes

If approved by the Environmental Professional, earlier air monitoring data (negative exposure assessment) can be used instead of personal monitoring. Pumps should be calibrated on site when possible. If a Negative Exposure Assessment (NEA) has been conducted by the ALC for this action, air monitoring is not required.

## Area Air Monitoring

### SUMMARY

This standard operating procedure covers work which is required to perform area air monitoring to determine background fiber concentration in an area, monitor the air inside containment and measure the levels of fibers outside a containment area.

### Examples

The following are examples of work that is performed using this procedure. If job conditions change from a small fiber release to a major fiber release stop work and notify the Environmental Professional.

1. Controlled work areas where asbestos materials are present.
2. Controlled work areas where asbestos materials are suspected.
3. Any area where an employee wears a respirator because of a potential asbestos exposure.

### Worker Recommendation

One worker is required for this procedure. The worker must be NIOSH 582. The air monitoring person cannot be utilized as a worker.

### Notes

NIOSH 7400 is the PCM method approved by the EPA accepted under AHERA regulations for the monitoring and determination of fibers in the air. It is not specific to asbestos fibers. It has been applied to asbestos because of the fibrous nature and the fact that occupational exposure is usually to one specific fiber. Therefore, specificity to a particular fiber is not important when sampling in a mixed environment such as a school building.

### Work Practices

Using the Gilibrator or other approved equipment, calibrate the area air monitoring **high volume** pump flow rate to between 0.5 and 16 liters/min. for PCM and 1.0 to 10.0 liters/min for TEM. The pump is calibrated depending on the length of time for the task monitored. During the calibration step, the pump must be calibrated using a representative cassette (manufacturer, pore size, medium type) and sampling line size that will be used during the area monitoring.

1. On the Air Monitoring Worksheet, write the pump number and pre-calibration volume in the appropriate columns.
2. Complete the upper section of the Air Monitoring Work Sheet.
3. Label the cassettes. See the Air Monitoring Work Sheet for examples. The cassette should have only the ID number on it. All other information is written on the work sheet.

**Note:** For PCM, a minimum of 2 field blanks or 10% (which ever is greater) is required. For TEM clearance, 2 field blanks and 1 lab blank are required. The field blank cassette caps must be removed during the sampling period. The field blank cassettes and caps must be stored in a clean area. Lab blank cassette caps are not removed.

The suggested loading for specific environments is: removal operations with visible dust-100 liters; removal operations with little dust-240 liters; office environments 400 to 2400 liters.

Remove the cassette caps and start the pump. Write the cassette start time on the Air Monitoring Work Sheet.

1. Attach the appropriate cassette to a tripod at the breathing zone height pointing down at a 45-degree angle at least one foot away from walls. Write on the Air Monitoring Work Sheet the location where the pump was placed, for **example**: In room 21, set the pump at 4' from the West wall and 12' from the South wall 36" above finished floor (AFF).
2. At the conclusion of the sampling period for each cassette, remove the cassette from the pump, replace the cap, and write the stop time on the Air Monitoring Work Sheet.
3. At the conclusion of the project, post-calibrate the area air-monitoring pump. Write the post calibration in the appropriate column on the Air Monitoring Work Sheet. Replace the caps on the field blank cassettes.
4. Complete the Air Monitoring Worksheet.
5. Print the chain of custody report for the samples and complete report. Send the samples to an approved laboratory.
6. Report laboratory results to the Environmental Professional.