

Pre-Demolition Asbestos Containing Building Materials Survey

Subject Site
4241 Lewis Road
Powder Springs, GA 30127



Prepared For
City of Powder Springs
4484 Marietta St
Powder Springs, GA 30127

Prepared By
Environmental Associates, Inc.
270 Hollyridge Drive
Roswell GA 30076

Issue Date
June 02, 2022

INTRODUCTION

Environmental Associates, Inc. (EAI) has completed the pre-demolition asbestos containing building materials survey at the residential type structure located at **4241 Lewis Road, Powder Springs, GA 30127** (*subject site*).

The site field work was carried out on May 27, 2022. The field work and sampling activities were completed by Mr. Jeff Giles, Senior Industrial Hygienist, accredited asbestos in buildings inspector.

The objective of the asbestos survey was to identify known or suspect asbestos containing materials (ACM) present at the subject site. The Georgia Environmental Protection Division (GEPD) considers all building materials with asbestos content more than 1% to be Regulated Asbestos Containing Material (RACM). All RACM potentially impacted by demolition or renovation should be removed and disposed by a licensed asbestos abatement contractor. Furthermore, all removed RACM should be disposed in a landfill permitted to accept asbestos containing materials.

GENERAL LIMITATIONS

The suspect ACM survey was conducted using standard engineering and scientific judgment, principles, and practices. The survey is based on the observations recorded by the auditor during the site survey. The survey is a partially invasive assessment limiting damage to the site structure and working systems. Findings, therefore, are limited to those items that could be directly observed.

Please note that this document is not a specification for asbestos removal. It does not contain means and methods for abatement. Contractors or bid specification contractors must determine asbestos amount prior to abatement bidding or ACM removal.

Visually identified suspect materials were sampled to represent conditions of accessible building space. There remains a possibility that ACMs are present that were undetected or inaccessible during the site visit. Furthermore, mechanical apparatus or equipment within the structures were not disassembled. There may be additional suspect materials enclosed or concealed in locations inaccessible at the time of the survey. Precautions should be taken during any demolition or renovation activity to identify building materials, which may be disturbed or uncovered to avoid an asbestos exposure hazard.

METHODOLOGY

A total of eleven (**11**) samples of suspect asbestos containing building materials (ACBMs) were collected from the subject site.

The suspect building material samples were submitted to **Analytical Environmental Services, Inc.** The samples were analyzed using Polarized Light Microscopy (PLM) coupled with Dispersion Staining as detailed in the United States Environmental Protection Agency's (EPA) "Interim Method for the Determination of Asbestos in Material Insulation Samples" (EPA-600/R-93/116 Method).

SUMMARY OF ASBESTOS CONTAINING MATERIALS & ESTIMATED QUANTITIES

ACBM	Description/Location	% ACM	Est. Quant.
<i>Joint Compound</i>	<i>Drywall Joint Compound-Drywall system and textured ceilings throughout interior</i>	<i>2 %</i>	<i>3,900 SF</i>
<i>Floor Tile</i>	<i>9 X 9 Floor Tile/Black Mastic-Bathroom closet</i>	<i>2-5 %</i>	<i>5 SF</i>
<i>Roof Cement</i>	<i>Roofing Cement-Roof system chimney and penetrations</i>	<i>5 %</i>	<i>1 Chimney 4 Penetrations</i>

Determination of the actual quantities of ACBMs should be made by the abatement contractor

Care should be taken during any demolition or renovation activity to identify building materials, which may be disturbed or uncovered. In addition, there may be additional suspect materials enclosed or concealed in locations inaccessible at the time of the survey.

The EPA's National Emission Standard for Hazardous Air Pollutants (NESHAP) regulations (40 CFR 61 (M)) require that regulated asbestos-containing materials (RACM) be properly removed prior to any demolition or renovation activity, which may disturb them. The EPA NESHAP regulations define RACM as "(a) Friable ACM, (b) Category I non-friable ACM that has become friable, (c) Category I non-friable ACM that will be or has been subject to sanding, grinding, cutting or abrading, or (d) Category II non-friable ACM that has a high probability of becoming, or has become, crumbled, pulverized, or reduced to powder by the forces expected to act on the material during demolition or renovation operations."

Materials that contain less than one (1) percent asbestos are not currently subject to EPA regulations. However, it should be noted that the disturbance of these materials might be subject to regulations issued by the U.S. Occupational Safety and Health Administration (OSHA). Such a disturbance may elevate the concentration of airborne fibers above the permissible exposure limit (PEL) of 0.1 fibers per cubic centimeter (f/cc) of air, measured as an eight-hour time weighted average (TWA), or the 30-minute short term excursion limit (STEL) of 1.0 f/cc. Recent revisions to the OSHA regulations require that all surfacing materials, thermal system insulation materials, and resilient flooring installed “no later than 1980” be considered as presumed asbestos-containing materials (PACM) and treated accordingly.

Furthermore, OSHA has implemented the final rule for occupational exposure to asbestos to include regular building maintenance operations and custodial activities, which may disturb identified asbestos-containing materials or presumed asbestos-containing materials. To rebut the designation of installed materials as PACM, OSHA requires the sampling of suspect material be performed in accordance with 40 CFR 763 (E) issued by the EPA under the Asbestos Hazard Emergency Response Act of 1986 (AHERA). The AHERA regulations establish asbestos identification and management requirements for schools, grades K through 12. The recent OSHA revisions also include specific notification and engineering control procedures.

A complete copy of all sample information and analysis results has been included for your reference. Please do not hesitate to contact us at 770 891 0484 if you have any questions or concerns regarding this matter.

Respectfully,



Jeff Giles
Senior Industrial Hygienist
770-891-0484
gilesjeff@live.com

LABORATORY DATA

**CHAIN OF CUSTODY
 BULK ASBESTOS ANALYSIS**

Client Name: Guides Consulting Project Name: 05 27 22
 Address: 8905 Buckhorn Project Number: 4241 Lewis Rd
 City, State, Zip: Sandy Sp GA 30752 Sampling Date: _____
 Contact: _____ Phone #: _____
 Sampler's Name: _____ Invoice To Name(s): _____
 Report To: _____ Invoice To Email(s): _____
 Report to Email: _____ PO #: _____

Sample ID	Sample Location/Description	Analysis Requested	Turnaround Time (TAT)	Comments
01	DWJC - Back L. R. R		PLM	24 hour
02	Hall text wall			
03	F. Bedroom text			
04	Kitchen Ceiling			
05	CMU-text coat Kitchen			
06	PT- 12x12 TOP			
07	PT- BOTTOM			
08	SV- Hall BOTTOM			
09	FT- Hall TOP			
10	FT 9x9 Bedroom Closet < 10sq			
11	Roof cement chimney			
12				
13				
14				
15				
16				
17				
18				
19				
20				

Relinquished by: [Signature] Date/Time: 05 28 22 10:30
 Received by: Fernanda Monama Date/Time: 5/28 10:31
 Relinquished by: _____ Date/Time: _____
 Received by: _____ Date/Time: _____

Submission of samples to the laboratory constitutes acceptance of AES's Terms & Conditions. Client assumes sole responsibility for damage or loss of samples before we accept them. Samples received after 3PM or on Saturday are considered as received the following business day. If no TAT is marked on COC, AES will proceed with standard TAT.

Asbestos COC7.15.19

FOR LAB USE ONLY
 Lab Recipient: Fernanda Monama Date/Time: 5/28 10:31 Method of Shipment: (13) Client



Bulk Sample Summary Report

Report Date: 1-Jun-22

Client Name: Giles Consulting Services	AES Job Number: 2205W07
Project Name: 4241 LEWIS RD	Project Number:

Client ID	AES ID	Location	Asbestos Mineral Percentage						Comments
			CH	AM	CR	AN	TR	AC	
01 Layer: 1	2205W07-001A	SEE COC	ND	ND	ND	ND	ND	ND	Joint compound. Paint included as binder
01 Layer: 2	2205W07-001A	SEE COC	ND	ND	ND	ND	ND	ND	
01 Layer: 3	2205W07-001A	SEE COC	ND	ND	ND	ND	ND	ND	
02 Layer: 1	2205W07-002A	SEE COC	ND	ND	ND	ND	ND	ND	Paint included as binder
02 Layer: 2	2205W07-002A	SEE COC	2	ND	ND	ND	ND	ND	Joint compound
03 Layer: 1	2205W07-003A	SEE COC	ND	ND	ND	ND	ND	ND	Texture. Paint included as binder

Note: CH=chrysotile, AM=amosite, CR=crocidolite, AC=actinolite, TR=tremolite, AN=anthophyllite
 For comments on the samples, see the individual analysis sheets.
 ND = None Detected

AES, Inc. is accredited by NIST's National Voluntary Laboratory Accreditation Program (NVLAP) for Polarized Light Microscopy (PLM) analysis, Lab Code 102082-0. All analyses performed in accordance with EPA "Interim Method for the Determination of Asbestos in Bulk Insulation Samples" (EPA 600/M4-82-020), 1982 as found in 40 CFR, Part 763, Appendix E to Subpart E and "Method for the Determination of Asbestos in Bulk Building Materials" (EPA/600/R-93/116), 1993.
 These test results apply only to those samples actually tested, as submitted by the client. All percentages are reported by visually estimated volume.
 PLM is not consistently reliable in detecting small concentrations of asbestos in floor tiles and similar nonfriable materials, quantitative TEM is currently the only method that can be used to determine conclusive asbestos content.
 This report must not be reproduced except in full without written approval of Analytical Environmental Services, Inc.

Microanalyst:

Penka Topuzova

QC Analyst:

Yelena Khanina



Bulk Sample Summary Report



Report Date: 1-Jun-22

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Project Name: 4241 LEWIS RD	Project Number:

Client ID	AES ID	Location	Asbestos Mineral Percentage						Comments
			CH	AM	CR	AN	TR	AC	
03 Layer: 2	2205W07-003A	SEE COC	3	ND	ND	ND	ND	ND	Texture. Paint included as binder
03 Layer: 3	2205W07-003A	SEE COC	ND	ND	ND	ND	ND	ND	
04 Layer: 1	2205W07-004A	SEE COC	ND	ND	ND	ND	ND	ND	Joint compound. Paint included as binder
04 Layer: 2	2205W07-004A	SEE COC	2	ND	ND	ND	ND	ND	Joint compound. Paint included as binder
04 Layer: 3	2205W07-004A	SEE COC	ND	ND	ND	ND	ND	ND	
04 Layer: 4	2205W07-004A	SEE COC	ND	ND	ND	ND	ND	ND	

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Client ID	AES ID	Location	Asbestos Mineral Percentage						Comments
			CH	AM	CR	AN	TR	AC	
05 Layer: 1	2205W07-005A	SEE COC	ND	ND	ND	ND	ND	ND	Paint included as binder
06 Layer: 1	2205W07-006A	SEE COC	ND	ND	ND	ND	ND	ND	Floor tile
06 Layer: 2	2205W07-006A	SEE COC	ND	ND	ND	ND	ND	ND	Glue
07 Layer: 1	2205W07-007A	SEE COC	ND	ND	ND	ND	ND	ND	Vinyl
07 Layer: 2	2205W07-007A	SEE COC	ND	ND	ND	ND	ND	ND	Felt
08 Layer: 1	2205W07-008A	SEE COC	ND	ND	ND	ND	ND	ND	Vinyl

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Client ID	AES ID	Location	Asbestos Mineral Percentage						Comments
			CH	AM	CR	AN	TR	AC	
08 Layer: 2	2205W07-008A	SEE COC	ND	ND	ND	ND	ND	ND	Backing with glue
09 Layer: 1	2205W07-009A	SEE COC	ND	ND	ND	ND	ND	ND	Floor tile
09 Layer: 2	2205W07-009A	SEE COC	ND	ND	ND	ND	ND	ND	Glue
10 Layer: 1	2205W07-010A	SEE COC	2	ND	ND	ND	ND	ND	Floor tile with black mastic
11 Layer: 1	2205W07-011A	SEE COC	5	ND	ND	ND	ND	ND	Black mastic

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**ASBESTOS IN BUILDINGS INSPECTOR
CERTIFICATE**

