

**TARGETED ASBESTOS SAMPLING RESULTS
BERND and RILEY ELEMENTARY SCHOOLS
MACON, GEORGIA
GEC JOB #140743.240**

PREPARED FOR

**MS. CHERYL CANTY-AARON
SAFETY & ENVIRONMENTAL MANAGER
BIBB COUNTY BOARD OF EDUCATION
2446 ROFF AVENUE
MACON, GEORGIA 31204**

PREPARED BY

**GEOTECHNICAL & ENVIRONMENTAL CONSULTANTS, INC.
514 HILLCREST INDUSTRIAL BOULEVARD
MACON, GEORGIA 31204**

**ISSUE DATE:
December 4, 2014**

GEC



December 4, 2014

Ms. Cheryl Canty-Aaron
Safety & Environmental Manager
Bibb County Board Of Education
2446 Roff Avenue
Macon, Georgia 31204

SUBJECT: Targeted Asbestos Sampling Results
Bernd and Riley Elementary Schools
Macon, Georgia
GEC Job #140743.240

Dear Ms. Canty-Aaron:

Geotechnical & Environmental Consultants, Inc. (GEC) is pleased to present this final report of Targeted Asbestos sampling results for the above referenced sites. This letter outlines the analysis results for the samples that were collected by GEC on October 27 and 28, 2014.

Mr. Anthony Whipple, an Asbestos Hazard Emergency Response Act / Asbestos Schools Hazard Abatement and Reauthorization Act (AHERA/ASHARA) accredited Asbestos Inspector with GEC, obtained 38 samples of suspect flooring materials from areas where flooring is planned for renovation/replacement within Bernd Elementary and Riley Elementary schools in Macon, Georgia. The results for the sampling are reportedly to be used by the Bibb County Board of Education to augment additional asbestos sampling data it already possesses to guide its renovation activity and avoid unknowingly disturbing asbestos containing material (ACM) within the subject schools.

The samples were submitted on October 30, 2014 under appropriate Chain-of-Custody procedures to Analytical Environmental Services, Inc. (AES), in Atlanta, Georgia, a laboratory accredited for Polarized Light Microscopy (PLM) analysis of bulk samples for asbestos content.

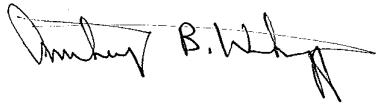
The material sampled was generally limited to floor tile and mastic/glue and carpet mastic, but at Riley Elementary, wallboard and wallboard mud (joint compound) and some crack filler material were also sampled. According to the results, NONE of the samples tested positive as Asbestos Containing Materials, by the definition of any material with greater than 1% asbestos being considered asbestos containing material. The sampling was conducted per request of the Bibb County Board of Education in preparation for renovation/repairs in the area.

Copies of the AES Analytical Report with the GEC field chains of custody for the survey are attached to this report.

GEC greatly appreciates the opportunity to serve you and remains available to further assist you as needed. If you have any questions about this report, please do not hesitate to contact us at (478) 757-1606.

Sincerely,

GEOTECHNICAL & ENVIRONMENTAL CONSULTANTS, INC.



Anthony Whipple
Environmental Specialist
Asbestos Inspector Certification #14233



Robert T. Hadden
Environmental Department Manager
Asbestos Inspector/Management Planner #14387

AW/RTH/hm

APPENDIX

ANALYTICAL ENVIRONMENTAL SERVICES, INC.

3080 Presidential Drive, Atlanta, GA 30340-3704
(770) 457-8177 / Toll Free (800) 972-4889 / Fax (770) 457-8188

1411001

**CHAIN OF CUSTODY
BULK ASBESTOS ANALYSIS**

Client Name: GEC Phone: (478) 757-1602
 Address: 514 Hillcrest Industrial Blvd Fax: (478) 757-1608
 City, State, Zip: Macon, GA 31204 Project Name: Bernard School
 Contact: B. Hodgen, D. Price, T. Peteman, T. Whipple Project Number: 140743.240
 Sampler's Name: Anthony Whipple Sampling Date: 10-28-14

	Sample ID	Sample Location/Description	Analysis Requested	Turnaround Time	Comments	For AES Use Only
1	B-1A	Brown 12x12 FT Cafeteria	PCM	STD		
2	B-1B	" " " "				
3	B-2A	Blue 12x12 FT Cafeteria				
4	B-3A	Beige base mastic Cafe.				
5	B-3B	" " " "				
6	B-2A	Blue 12x12 FT Cafeteria				
7	B-2B	" " " " w/mastic				
8	B-4A	Beige Carpet mastic				
9	B-5A	Dark Gray 12x12 Hallway @ Franklin ^{H2O}				
10	B-5B	" " " "				
11	B-6A	White 12x12 FT w/Carpet mastic				
12	B-6B	" "				
13	B-3C	Base mastic Media Center				
14	B-7A	Beige 12x12 FT				
15	B-8A	Light Blue 12x12 FT				
16	B-7B	Beige 12x12 FT				
17	B-8B	Light Blue 12x12 FT				
18						
19						
20						

Relinquished by: Anthony Whipple Date/Time: 10/30/14 1200
 Received by: _____ Date/Time: _____
 Relinquished by: _____ Date/Time: _____
 Received by: _____ Date/Time: _____

FOR LAB USE ONLY

Lab Recipient: Catoya Reeves Date/Time: 10/31/14 3:45p Method of Shipment: Fed Ex



ANALYTICAL ENVIRONMENTAL SERVICES, INC.
Bulk Sample Summary Report



Lab Code 102082-0

7-Nov-14

Client Name:	GeoTechnical & Env. Consultants, Inc.	AES Job Number:	1411001
Project Name:	BERNO SCHOOL	Project Number:	140743.240

Client ID	AES ID	Location	Asbestos Mineral Percentage						Comments
			CH	AM	CR	AN	TR	AC	
B-1A Layer: 1	1411001-001A	Brown 12x12 FT Cafeteria	ND	ND	ND	ND	ND	ND	Floor Tile
B-1A Layer: 2	1411001-001A	Brown 12x12 FT Cafeteria	ND	ND	ND	ND	ND	ND	Glue
B-1B Layer: 1	1411001-002A	Brown 12x12 FT Cafeteria	ND	ND	ND	ND	ND	ND	Floor Tile
B-1B Layer: 2	1411001-002A	Brown 12x12 FT Cafeteria	ND	ND	ND	ND	ND	ND	Glue
B-3A Layer: 1	1411001-003A	Beige Base Mastic Cafe.	ND	ND	ND	ND	ND	ND	Paint included as binder
B-3B Layer: 1	1411001-004A	Beige Base Mastic Cafe.	ND	ND	ND	ND	ND	ND	

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.

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Microanalyst:

Penka Topuzova

QC Analyst:

Yelena Khanina



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7-Nov-14

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Project Name:	BERNO SCHOOL	Project Number:	140743.240

Client ID	AES ID	Location	Asbestos Mineral Percentage						Comments
			CH	AM	CR	AN	TR	AC	
B-2A Layer: 1	1411001-005A	Blue 12x12 FT Cafeteria	ND	ND	ND	ND	ND	ND	Glue
B-2A Layer: 2	1411001-005A	Blue 12x12 FT Cafeteria	ND	ND	ND	ND	ND	ND	Floor Tile
B-2B Layer: 1	1411001-006A	Blue 12x12 FT Cafeteria w / Mastic	ND	ND	ND	ND	ND	ND	Floor Tile with glue
B-2B Layer: 2	1411001-006A	Blue 12x12 FT Cafeteria w / Mastic	ND	ND	ND	ND	ND	ND	Black Mastic
B-4A Layer: 1	1411001-007A	Beige Carpet Mastic	ND	ND	ND	ND	ND	ND	
B-4A Layer: 2	1411001-007A	Beige Carpet Mastic	ND	ND	ND	ND	ND	ND	

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Yelena Khanina



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7-Nov-14

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Project Name:	BERNO SCHOOL	Project Number:	140743.240

Client ID	AES ID	Location	Asbestos Mineral Percentage						Comments
			CH	AM	CR	AN	TR	AC	
B-5A Layer: 1	1411001-008A	Dark Gray 12x12 Hallway @ H20 Fountain	ND	ND	ND	ND	ND	ND	Floor Tile with glue
B-5B Layer: 1	1411001-009A	Dark Gray 12x12 Hallway @ H20 Fountain	ND	ND	ND	ND	ND	ND	Floor Tile with glue
B-6A Layer: 1	1411001-010A	White 12x12 FT w / Carpet Mastic	ND	ND	ND	ND	ND	ND	Glue
B-6A Layer: 2	1411001-010A	White 12x12 FT w / Carpet Mastic	ND	ND	ND	ND	ND	ND	Floor Tile with glue
B-6B Layer: 1	1411001-011A	White 12x12 FT w / Carpet Mastic	ND	ND	ND	ND	ND	ND	Floor Tile with glue
B-3C Layer: 1	1411001-012A	Base Mastic Media Center	ND	ND	ND	ND	ND	ND	

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QC Analyst:

Yelena Khanina



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Bulk Sample Summary Report



Lab Code 102082-0

7-Nov-14

Client Name:	GeoTechnical & Env. Consultants, Inc.	AES Job Number:	1411001
Project Name:	BERNO SCHOOL	Project Number:	140743.240

Client ID	AES ID	Location	Asbestos Mineral Percentage						Comments
			CH	AM	CR	AN	TR	AC	
B-7A Layer: 1	1411001-013A	Beige 12x12 FT	ND	ND	ND	ND	ND	ND	Floor Tile with glue
B-8A Layer: 1	1411001-014A	Light Blue 12x12 FT	ND	ND	ND	ND	ND	ND	Floor Tile with glue
B-7B Layer: 1	1411001-015A	Beige 12x12 FT	ND	ND	ND	ND	ND	ND	Floor Tile with glue
B-8B Layer: 1	1411001-016A	Light Blue 12x12 FT	ND	ND	ND	ND	ND	ND	Floor Tile with glue

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QC Analyst:

Yelena Khanina

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3080 Presidential Drive, Atlanta, GA 30340-3704
(770) 457-8177 / Toll Free (800) 972-4889 / Fax (770) 457-8188

**CHAIN OF CUSTODY
BULK ASBESTOS ANALYSIS**

1410589

Client Name: GEC Phone: ()
 Address: 514 Hillcrest Industrial Blvd Fax: ()
 City, State, Zip: MACON GA 31204 Project Name: Riley School
 Contact: B. Hadden, D. Price, T. Peterman, T. Whipple Project Number: 140743.240
 Sampler's Name: Anthony Whipple Sampling Date: 10/27/14

Sample ID	Sample Location/Description	Analysis Requested	Turnaround Time	Comments	For AES Use Only
1 R-1A	Office front storage yellow carpet mastic / black mastic	PLM	STD		
2 R-2A	Front office closet yellow base mastic and black mastic				
3 R-3A	300 Hall Lounge Beige 12x12 Ft with Brown flex				
4 R-4A	Rm 304 AC/Heath unit joint compound				
5 R-2B	Rm 304 Beige/Brown base mastic				
6 R-3B	Rm 303 Beige 12x12 Ft with Brown flex	Ad.			
7 R-2C	Rm 208 Beige 12x12 Ft with Brown flex @ Exit door				
8 R-5A	Rm 208 material in crack @ back door and sink area				
9 R-5B	" " "				
10 R-6A	Rm 208 wall board behind base mastic				
11 R-4B	Rm 208 JC AC/Heater				
12 R-3D	Hallway 200 across from room 210 12x12 Ft				
13 R-2C	Hallway 200 across from Rm 208 base mastic				
14 R-1B	Media Center yellow carpet mastic				
15 R-7A	Cafeteria Light Blue 12x12 Ft with blue flex				
16 R-7B	" " "				
17 R-8A	Cafeteria Blue 12x12 Ft with light blue flex				
18 R-8B	" " "				
19 R-4C	Cafeteria AC/Heater unit JC				
20 R-6B	Rm 205 wall board @ AC heater				

Relinquished by: Anthony Whipple Date/Time: 10/30/14 12:00
 Received by: _____ Date/Time: _____
 Relinquished by: _____ Date/Time: _____
 Received by: _____ Date/Time: _____

FOR LAB USE ONLY

Lab Recipient: Catoya Reeves Date/Time: 10/31/14 3:45p Method of Shipment: Fed Ex

Client: GeoTechnical & Env. Consultants, Inc.

Project: Riley School

Lab ID: 1410S89

Case Narrative

A duplicate sample ID "R-2C" was listed on the Chain of Custody, however only one sample was received and labeled with that sample ID.

According to sample description sample 1410S89-012A logged in as "R-2C".

Sample container "R-6B" contained floor tile sample.



ANALYTICAL ENVIRONMENTAL SERVICES, INC.
Bulk Sample Summary Report



Lab Code 102082-0

7-Nov-14

Client Name:	GeoTechnical & Env. Consultants, Inc.	AES Job Number:	1410S89
Project Name:	Riley School	Project Number:	140743.240

Client ID	AES ID	Location	Asbestos Mineral Percentage						Comments
			CH	AM	CR	AN	TR	AC	
R-1A Layer: 1	1410S89-001A	Office Front Storage Yellow Carpet Mastic / Black Mastic	ND	ND	ND	ND	ND	ND	Glue
R-1A Layer: 2	1410S89-001A	Office Front Storage Yellow Carpet Mastic / Black Mastic	ND	ND	ND	ND	ND	ND	Black Mastic
R-2A Layer: 1	1410S89-002A	Front Office / Closet Yellow Base Mastic and Black Mastic	ND	ND	ND	ND	ND	ND	Vinyl
R-2A Layer: 2	1410S89-002A	Front Office / Closet Yellow Base Mastic and Black Mastic	ND	ND	ND	ND	ND	ND	Yellow Glue
R-2A Layer: 3	1410S89-002A	Front Office / Closet Yellow Base Mastic and Black Mastic	ND	ND	ND	ND	ND	ND	Dark Brown Glue
R-3A Layer: 1	1410S89-003A	300 Hall Lounge Beige 12x12 Ft with Brown Flex	ND	ND	ND	ND	ND	ND	Floor Tile with glue

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

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Microanalyst:

Svetlana Arkhipov

QC Analyst:

Yelena Khanina



ANALYTICAL ENVIRONMENTAL SERVICES, INC.
Bulk Sample Summary Report



Lab Code 102082-0

7-Nov-14

Client Name:	GeoTechnical & Env. Consultants, Inc.	AES Job Number:	1410S89
Project Name:	Riley School	Project Number:	140743.240

Client ID	AES ID	Location	Asbestos Mineral Percentage						Comments
			CH	AM	CR	AN	TR	AC	
R-4A Layer: 1	1410S89-004A	Rm 304 AC / Heath Unit Joint Compound	ND	ND	ND	ND	ND	ND	Paint included as binder
R-2B Layer: 1	1410S89-005A	Rm 304 Beige / Brown Base Mastic	ND	ND	ND	ND	ND	ND	Yellow Glue
R-2B Layer: 2	1410S89-005A	Rm 304 Beige / Brown Base Mastic	ND	ND	ND	ND	ND	ND	Dark Brown Glue
R-5A Layer: 1	1410S89-007A	Rm 208 Material In Crack @ Back Door and Sink Area	ND	ND	ND	ND	ND	ND	
R-5B Layer: 1	1410S89-008A	Rm 208 Material In Crack @ Back Door and Sink Area	ND	ND	ND	ND	ND	ND	
R-6A Layer: 1	1410S89-009A	Rm 208 Wallboard Behind Base Mastic	ND	ND	ND	ND	ND	ND	

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Project Name:	Riley School	Project Number:	140743.240

Client ID	AES ID	Location	Asbestos Mineral Percentage						Comments
			CH	AM	CR	AN	TR	AC	
R-4B Layer: 1	1410S89-010A	Room 208 JC AC / Heater	ND	ND	ND	ND	ND	ND	
R-3D Layer: 1	1410S89-011A	Hallway 200 Across From Room 210 12x12 Ft	ND	ND	ND	ND	ND	ND	Floor Tile
R-3D Layer: 2	1410S89-011A	Hallway 200 Across From Room 210 12x12 Ft	ND	ND	ND	ND	ND	ND	Glue
R-2C Layer: 1	1410S89-012A	Hallway 200 Across From Room 210 Base Mastic	ND	ND	ND	ND	ND	ND	Dark Brown Glue
R-1B Layer: 1	1410S89-013A	Media Center Yellow Carpet Mastic	ND	ND	ND	ND	ND	ND	Glue
R-1B Layer: 2	1410S89-013A	Media Center Yellow Carpet Mastic	ND	ND	ND	ND	ND	ND	Leveling Compound

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Project Name:	Riley School	Project Number:	140743.240

Client ID	AES ID	Location	Asbestos Mineral Percentage						Comments
			CH	AM	CR	AN	TR	AC	
R-7A Layer: 1	1410S89-014A	Cafeteria Light Blue 12x12 Ft with Blue Flex	ND	ND	ND	ND	ND	ND	Floor Tile
R-7B Layer: 1	1410S89-015A	Cafeteria Light Blue 12x12 Ft with Blue Flex	ND	ND	ND	ND	ND	ND	Floor Tile
R-8A Layer: 1	1410S89-016A	Cafeteria Blue 12x12 Ft with Light Blue Flex	ND	ND	ND	ND	ND	ND	Floor Tile
R-8B Layer: 1	1410S89-017A	Cafeteria Blue 12x12 Ft with Light Blue Flex	ND	ND	ND	ND	ND	ND	Floor Tile
R-4C Layer: 1	1410S89-018A	Cafeteria AC / Heater Unit JC	ND	ND	ND	ND	ND	ND	Paint included as binder
R-6B Layer: 1	1410S89-019A	Rm 205 Wallboard @ A/C Heater	ND	ND	ND	ND	ND	ND	Floor Tile

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Project Name:	Riley School	Project Number:	140743.240

Client ID	AES ID	Location	Asbestos Mineral Percentage						Comments
			CH	AM	CR	AN	TR	AC	
R-6B Layer: 2	1410S89-019A	Rm 205 Wallboard @ A/C Heater	ND	ND	ND	ND	ND	ND	Glue

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Microanalyst:

Svetlana Arkhipov

QC Analyst:

Yelena Khanina

ANALYTICAL ENVIRONMENTAL SERVICES, INC.

3080 Presidential Drive, Atlanta, GA 30340-3704
(770) 457-8177 / Toll Free (800) 972-4889 / Fax (770) 457-8188

1411002

**CHAIN OF CUSTODY
BULK ASBESTOS ANALYSIS**

Client Name: GEC Phone: ()
 Address: _____ Fax: ()
 City, State, Zip: MAKEN Project Name: Riley School
 Contact: Bladder, DPrice, TPeterman, TWhipple Project Number: 140713-240
 Sampler's Name: Anthony Whipple Sampling Date: 10/28/14

	Sample ID	Sample Location/Description	Analysis Requested	Turnaround Time	Comments	For AES Use Only
1	R28-1A	Rm 115 White 12x12 Ft	Asm	STD		
2	R28-1B	HALWAY w/ DOUBLE DOOR side of Rm 115 White 12x12 Ft	↓	↓		
3						
4						
5						
6						
7						
8						
9						
10						
11						
12						
13						
14						
15						
16						
17						
18						
19						
20						

Relinquished by: Anthony Whipple Date/Time: 10/30/14 12:00
 Received by: _____ Date/Time: _____
 Relinquished by: _____ Date/Time: _____
 Received by: _____ Date/Time: _____

Lab Recipient: Codya Reeves FOR LAB USE ONLY
 Date/Time: 10/31/14 3:45p Method of Shipment: Fed Ex



ANALYTICAL ENVIRONMENTAL SERVICES, INC.
Bulk Sample Summary Report



Lab Code 102082-0

7-Nov-14

Client Name:	GeoTechnical & Env. Consultants, Inc.	AES Job Number:	1411002
Project Name:	RILEY SCHOOL	Project Number:	140743.240

Client ID	AES ID	Location	Asbestos Mineral Percentage						Comments
			CH	AM	CR	AN	TR	AC	
R28-1A Layer: 1	1411002-001A	Rm 115 White 12x12 Ft	ND	ND	ND	ND	ND	ND	Floor Tile with glue
R28-1B Layer: 1	1411002-002A	Hallway @ Double Door Side of Rm 115 White 12x12 F	ND	ND	ND	ND	ND	ND	Floor Tile with glue

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.

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