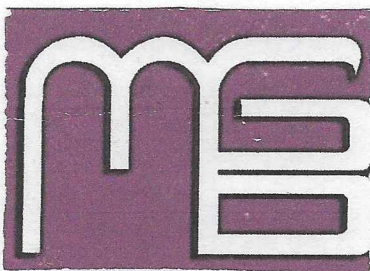


Asbestos Survey

For:
Harnett County Schools



Prepared by:
MGB 2000 LLC
Blueprint for Asbestos Services
Phone: (336-577-2075) Fax: (336-226-9989)
mgbamj@aol.com

Sites Surveyed:
2815 Olivia Road
Sanford, NC 27332
on
April 13, 2020

Report/Data Summary:

Client: Harnett County Schools

Site Surveyed: 2815 Olivia Road
Sanford, NC 27332

Date Surveyed: April 13, 2020

Inspection/Survey Objectives:

Michael G. Bullard, NC Asbestos Inspector License #11915 was hired by the Client to inspect Benhaven Elementary School located at 2815 Olivia Road, Sanford, NC 27332. A total of 31 samples were taken and of those 31 samples, nine (9) tested positive for asbestos.

This Asbestos-in-Building Materials survey was conducted in such a way as to ensure compliance with the US EPA's National Emissions Standard for Hazardous Air Pollutants (NESHAPS) and all state and local regulations regarding Asbestos.

Bulk samples were analyzed for asbestos by Scientific Analytical Institute (SAI) using polarized light microscopy (PLM) per EPA-600-R-93-1 method. Bulk samples were initially examined using a stereomicroscope at a magnification of 10X – 50X. Suspect asbestos fibers were then mounted in the appropriate refractive index oils and observed using PLM. Following PLM examination, a determination was made regarding the type and percentage of asbestos present in each sample.

Inspection/Survey Procedures:

See Hazard Assessment Inspection, Sampling & Laboratory Procedures

Results:

See attached Site Analysis Results Sheets

Recommendation Guidelines (Response Actions)

1. Removal – Complete removal of ACM following all Federal and State removal regulations.
2. Enclosure – The construction of an air-tight barrier installed between the friable asbestos and the building environment.
3. Encapsulation – The application of sprayed-on liquid material which will surround or embed the asbestos fibers in an adhesive matrix to prevent release of fibers.
4. Repair – The process of returning the damaged ACMs to an undamaged condition.
5. Operations & Maintenance (O&M) Plan – The development of a plan detailing a program of training, cleaning, work practices, occupant notification and periodic surveillance to maintain friable and/or non-friable ACMs in good condition. The plan would also ensure cleanup of any asbestos fibers previously released or present in the building environment and the anticipated prevention of further release by minimizing and controlling ACM disturbance. It should be noted that while an O&M plan is a good method for preventing occupant exposure to asbestos, it is an interim means of dealing with the material. Eventually, all ACM will have to be removed and properly disposed.

It is strongly recommended that any friable and damaged ACM, because of its high potential for releasing fibers into the environment, be removed immediately using qualified personnel and in accordance with all applicable State and Federal regulations. Any damaged non-friable ACM that can be repaired and maintained, should be repaired as soon as feasible. It is recommended that those ACMs determined to be in good condition with a low potential for disturbance, be left in place and maintained in good condition. This is best accomplished with the development and implementation of an Operations & Maintenance program. If the building owner intends to renovate or demolish any part of the facility, or conduct similar activities which may disturb ACMs, (unless the structure is an owner-occupied residential dwelling, the materials must be removed by a North Carolina licensed abatement contractor.

Recommendations and Discussion

We understand that the above referenced building will be demolished in the future. The ACM must be removed by an experienced and accredited asbestos removal contractor in accordance with EPA, State of North Carolina and OSHA asbestos regulations prior to disturbance of the demolished. If the ACM will not be disturbed, they may be left in place but must be monitored under an operations and maintenance program.

It is recommended that asbestos abatement specifications be prepared if you plan to obtain bids from abatement contractors to remove the ACM. This document does not contain means and methods for removal, minimum qualification requirements of the abatement contractors and workers, respiratory requirements, negative pressure containment requirements, disposal requirements or air monitoring and clearance criteria. The State of North Carolina, Health Hazards Control Unit (HHCUC) has specific regulations that must be adhered to during asbestos removal/abatement projects. MGB LLC can assist you with these requirements.

You should be aware that stringent requirements are imposed upon anyone demolishing a structure in which ACM will be disturbed. This work must be performed in accordance with OSHA asbestos regulations, 29 CFR 1910 & 1926, and NESHAP asbestos regulations 40 CFR 61, subpart M. North Carolina regulations require the accreditation of personnel who work in the asbestos field and

notification and permitting fees for asbestos removal projects. There is a 10-working day notification period required prior to abatement of more than 160 square feet or 260 linear feet of regulated asbestos in a facility. Failure to take proper precautions and action to protect human health and the environment can result in penalties, danger to personnel, and construction delays.

Limitations

Please note that this document is not a specification for asbestos removal. It does not contain means and methods for asbestos abatement. If you are planning an asbestos abatement project, please contact MGB LLC to discuss the requirements. Use of this document without the express written consent of MGB LLC is at the sole risk of the user and/or abatement contractor.

This report summarizes our evaluation of the conditions observed at the site. The findings prepared by MGB LLC are based upon testing performed in the building. Additional ACM may exist (undetected) in other areas due to their inaccessibility or due to the limited nature of our testing. Our recommendations are based on the guidelines presented in EPA, State of North Carolina or OSHA asbestos regulations.

MGB 2000 LLC

THE FOLLOWING TABLE SUMMARIZES THE ASBESTOS CONTAINING MATERIALS IDENTIFIED IN THE BUILDING

TABLE 1 Asbestos Containing Materials 2815 Olivia Road, Sanford, NC 27332						
Sample Number	Asbestos Material	Approximate Location	Percent Asbestos	Friability (F/NF)	Condition	Recommendations
3	Coating	Sink bottom room 105	3% Chrysotile	NF	Good	Remove before demolition
4	12x12 Ceiling tile	Ceiling throughout	2% Chrysotile	F	Good	Remove before demolition
5	12x12 Ceiling tile	Room 105	2% Chrysotile	F	Good	Remove before demolition
11	Glaze	Windows wood frame exterior	3% Chrysotile	NF	Good	Remove before demolition
12	Glaze	Windows wood frame front	3% Chrysotile	NF	Good	Remove before demolition
14 - A	Drywall	Ceiling Café entrance	3% Chrysotile	F	Good	Remove before demolition
15 - A	Drywall	Walls Café	3% Chrysotile	F	Good	Remove before demolition
18 - C	Floor Tile	Bottom layer café office	3% Chrysotile	NF	Good	Remove before demolition
18 - D	Black Mastic	Bottom layer café office	5% Chrysotile	NF	Good	Remove before demolition
According to the definition used by the Environmental Protection Agency (EPA), a material is classified as asbestos-containing if it contains greater than one percent of asbestos. The laboratory results indicate the above sampled materials to be asbestos containing.						





Scientific Analytical Institute
 4604 Dundas Dr. Greensboro, NC 27407
 Phone: 336.292.3888 Fax: 336.292.3313
 www.sailab.com lab@sailab.com

Lab Use Only
 Lab Order ID: 71940518
 Client Code: _____

Company Contact Information

Company: MGB2000llc	Contact: Michael G Bullard
Address: 2434 pepperstone drive	Phone <input type="checkbox"/> : 336-577-2075
Graham NC 27253	Fax <input type="checkbox"/> : 336-226-9989
	Email <input checked="" type="checkbox"/> mgbamj@aol.com

Asbestos Test Types

PLM EPA 600/R-93/116	<input checked="" type="checkbox"/>
Positive stop	<input type="checkbox"/>
PLM Point Count	<input type="checkbox"/>
PCM NIOSH 7400	<input type="checkbox"/>
TEM AHERA	<input type="checkbox"/>
TEM Level II	<input type="checkbox"/>
TEM NIOSH 7402	<input type="checkbox"/>
TEM Bulk Qualitative	<input type="checkbox"/>
TEM Bulk Chatfield	<input type="checkbox"/>
TEM Bulk Quantitative	<input type="checkbox"/>
TEM Wipe ASTM D6480-99	<input type="checkbox"/>
TEM Microvac ASTM D5755-02	<input type="checkbox"/>
TEM Water EPA 100.2	<input type="checkbox"/>
Other: _____	<input type="checkbox"/>

Billing/Invoice Information

Turn Around Times

Company:	90 Min. <input type="checkbox"/>	48 Hours <input type="checkbox"/>
Contact:	3 Hours <input type="checkbox"/>	72 Hours <input type="checkbox"/>
Address: SAME	6 Hours <input type="checkbox"/>	96 Hours <input type="checkbox"/>
	12 Hours <input type="checkbox"/>	20 Hours <input type="checkbox"/>
	24 Hours <input checked="" type="checkbox"/>	144+ Hours <input type="checkbox"/>

PO Number: MGB 1393 Harnett County School

Project Name/Number: Belhaven 2815 Olivia Rd Sanford NC

Sample ID #	Description/Location	Volume/Area	Comments
1	Plaster / walls rear entrance		
2	Plaster / walls hallway		
3	Coating/ sink bottom room 105		
4	12x12 ceiling tile/ ceiling throughout		
5	12x12 ceiling tile/ room 105		
6	Plaster / ceiling hallway		
7	Plaster / walls and ceiling hallway		
8	2x4 ceiling tile boys restroom		
9	2x4 ceiling tile girls restroom		
10	12x12 floor tile / front office		Accepted <input checked="" type="checkbox"/>
11	Glaze / windows wood frame exterior		
12	Glaze / windows wood frame front		Rejected <input type="checkbox"/>
13	12x12 blue tile/ storage closet		
14	Drywall / ceiling cafe entrance		
15	Drywall / walls cafe		

Total # of Samples _____

Relinquished by	Date/Time	Received by	Date/Time
Michael G Bullard	4-13-20	<i>N. Francis</i>	4/13 2:45p



Bulk Asbestos Analysis

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



Customer: MGB LLC
 2434 Pepperstone Dr
 Graham, NC 27253

Attn: Michael Bullard

Lab Order ID: 71940548
Analysis ID: 71940548_PLM
Date Received: 4/13/2020
Date Reported: 4/14/2020

Project: Bellhaven 2815 Olivia Rd Sanford NC

Sample ID	Description	Asbestos	Fibrous Components	Non-Fibrous Components	Attributes
Lab Sample ID	Lab Notes				Treatment
1 - A	Plaster / walls rear entrance	None Detected		100% Other	White Non Fibrous Homogeneous
71940548PLM_1	finish				Crushed
1 - B	Plaster / walls rear entrance	None Detected	1% Cellulose	99% Other	Gray Non Fibrous Homogeneous
71940548PLM_20	base				Crushed
2 - A	Plaster / walls hallway	None Detected		100% Other	White Non Fibrous Homogeneous
71940548PLM_2	finish				Crushed
2 - B	Plaster / walls hallway	None Detected	1% Cellulose	99% Other	Gray Non Fibrous Homogeneous
71940548PLM_21	base				Crushed
3	Coating / sink bottom room 105	3% Chrysotile		97% Other	Tan Non Fibrous Homogeneous
71940548PLM_3					Crushed, Dissolved
4	12x12 Ceiling tile / ceiling throughout	2% Chrysotile	93% Cellulose	5% Other	Brown, White Fibrous Homogeneous
71940548PLM_4					Teased
5	12x12 Ceiling tile / room 105	2% Chrysotile	93% Cellulose	5% Other	Brown, White Fibrous Homogeneous
71940548PLM_5					Teased
6 - A	Plaster / ceiling hallway	None Detected		100% Other	White Non Fibrous Homogeneous
71940548PLM_6	finish				Crushed

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Charmel Dozier (13)
 Megan Javonovich (18)

Analyst

Approved Signatory



Bulk Asbestos Analysis

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



Customer: MGB LLC
 2434 Pepperstone Dr
 Graham, NC 27253

Attn: Michael Bullard

Lab Order ID: 71940548
Analysis ID: 71940548_PLM
Date Received: 4/13/2020
Date Reported: 4/14/2020

Project: Bellhaven 2815 Olivia Rd Sanford NC

Sample ID	Description	Asbestos	Fibrous Components	Non-Fibrous Components	Attributes
Lab Sample ID	Lab Notes				Treatment
6 - B	Plaster / ceiling hallway	None Detected	1% Hair 1% Cellulose	98% Other	Gray Non Fibrous Homogeneous
71940548PLM_22	base				Crushed
7 - A	Plaster / walls and ceiling hallway	None Detected		100% Other	White Non Fibrous Homogeneous
71940548PLM_7	finish				Crushed
7 - B	Plaster / walls and ceiling hallway	None Detected	1% Hair 1% Cellulose	98% Other	Gray Non Fibrous Homogeneous
71940548PLM_23	base				Crushed
8	2x4 Ceiling tile boys restroom	None Detected	35% Cellulose 35% Fiber Glass	30% Other	Tan, White Fibrous Homogeneous
71940548PLM_8					Teased
9	2x4 Ceiling tile girls room	None Detected	35% Cellulose 35% Fiber Glass	30% Other	Tan, White Fibrous Homogeneous
71940548PLM_9					Teased
10 - A	12x12 Floor tile / front office	None Detected		100% Other	White Non Fibrous Homogeneous
71940548PLM_10	tile				Dissolved
10 - B	12x12 Floor tile / front office	None Detected		100% Other	Black Non Fibrous Homogeneous
71940548PLM_24	mastic				Dissolved
11	Glaze / windows wood frame exterior	3% Chrysotile		97% Other	Gray, White Non Fibrous Homogeneous
71940548PLM_11					Dissolved, Crushed

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Bulk Asbestos Analysis

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



Customer: MGB LLC
 2434 Pepperstone Dr
 Graham, NC 27253

Attn: Michael Bullard

Lab Order ID: 71940548
Analysis ID: 71940548_PLM
Date Received: 4/13/2020
Date Reported: 4/14/2020

Project: Bellhaven 2815 Olivia Rd Sanford NC

Sample ID	Description	Asbestos	Fibrous Components	Non-Fibrous Components	Attributes
Lab Sample ID	Lab Notes				Treatment
12	Glaze / windows wood frame front	3% Chrysotile		97% Other	Gray, White Non Fibrous Homogeneous
71940548PLM_12					Dissolved, Crushed
13 - A	12x12 Blue tile / storage closet	None Detected		100% Other	Blue Non Fibrous Homogeneous
71940548PLM_13	tile				Dissolved
13 - B	12x12 Blue tile / storage closet	None Detected		100% Other	Black Non Fibrous Homogeneous
71940548PLM_25	mastic				Dissolved
14 - A	Drywall / ceiling café entrance	3% Chrysotile		97% Other	White Non Fibrous Homogeneous
71940548PLM_14	texture				Teased
14 - B	Drywall / ceiling café entrance	None Detected	10% Cellulose	90% Other	Gray Non Fibrous Homogeneous
71940548PLM_26	drywall				Crushed
15 - A	Drywall / walls café	3% Chrysotile		97% Other	White Non Fibrous Homogeneous
71940548PLM_15	texture				Teased
15 - B	Drywall / walls café	None Detected	10% Cellulose	90% Other	Gray Non Fibrous Homogeneous
71940548PLM_27	drywall				Crushed
16	Glaze / metal windows	None Detected		100% Other	Beige, White Non Fibrous Heterogeneous
71940548PLM_16					Ashed, Dissolved

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Bulk Asbestos Analysis

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



Customer: MGB LLC
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Attn: Michael Bullard

Lab Order ID: 71940548
Analysis ID: 71940548_PLM
Date Received: 4/13/2020
Date Reported: 4/14/2020

Project: Bellhaven 2815 Olivia Rd Sanford NC

Sample ID	Description	Asbestos	Fibrous Components	Non-Fibrous Components	Attributes
Lab Sample ID	Lab Notes				Treatment
17 - A	Floor tile top layer café office	None Detected		100% Other	Beige Non Fibrous Homogeneous
71940548PLM_17	tile				Dissolved
17 - B	Floor tile top layer café office	None Detected		100% Other	Yellow Non Fibrous Homogeneous
71940548PLM_28	mastic				Dissolved
18 - A	Floor tile bottom layer café office	None Detected		100% Other	Beige Non Fibrous Homogeneous
71940548PLM_18	tile 1				Dissolved
18 - B	Floor tile bottom layer café office	None Detected		100% Other	Yellow Non Fibrous Homogeneous
71940548PLM_29	yellow mastic				Dissolved
18 - C	Floor tile bottom layer café office	3% Chrysotile		97% Other	Black Non Fibrous Homogeneous
71940548PLM_30	tile 2				Dissolved
18 - D	Floor tile bottom layer café office	5% Chrysotile		95% Other	Black Non Fibrous Homogeneous
71940548PLM_31	black mastic				Dissolved
19	Shingles / roof	None Detected	30% Fiber Glass	70% Other	Black, Gray Fibrous Homogeneous
71940548PLM_19					Dissolved

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