

# Environmental, Health and Safety Solutions.™











May 17, 2022

Dewberry Engineers, Inc. - ReBuild Phase 2 1545 Peachtree Street NE, Suite 250 Atlanta, Georgia 30309

RE: Asbestos Inspection

605 Hodges St, Oriental, North Carolina 28571

El Project No: IHMO220083.00

ReBuild NC Batch ID: APP-09213, INSP-0012863

Dear Lee Margurite Record:

Per the contract outlined by The North Carolina Office of Recovery and Resiliency (NCORR), The EI Group, Inc. performed a limited asbestos inspection for the residence located at 605 Hodges St in Oriental, North Carolina. The inspection was performed by Mr. Brian Long (NC Asbestos Inspector #13212) on May 04, 2022 and limited to the residence's accessible interior and exterior.

# Methodology

Asbestos Containing Materials (ACM)

In order to complete the required ACM Survey, EI performed this survey in general accordance with 40 CFR 763 Subpart E. The survey and sampling methods used as part of this survey are described below.

ACM Visual Survey Methodology

For the building structure a limited visual survey of building materials within the designated construction area was completed. The purpose of this was for the certified inspection staff to identify the locations of all suspected ACM. The inspector touched all suspected ACM to determine whether they are friable or non-friable materials. Based upon the AHERA regulations, friable materials can be determined as those materials, that when dry, may be crumbled, pulverized, or reduced to powder by hand pressure, and includes non-friable materials that have become damaged to a point where they may also meet this determination. This visual survey was also completed to identify all homogeneous areas of suspected ACM and to assess the physical condition of each of these materials. A homogeneous area is defined as an area of surfacing material, thermal system insulation material, or

miscellaneous material that is uniform in color and texture. Once these homogeneous areas are established for the various inspected building, bulk samples were collected per the sampling methodology described below.

#### ACM Sampling Methodology

All sampling methods were collected in general accordance with NESHAP regulations. Depending on the type of building materials, various sampling methodologies were employed and are described below.

#### **Surfacing Materials**

Surfacing materials are defined as material that is sprayed-on, troweled-on, or otherwise applied to surfaces, such as acoustical plaster on ceilings and fireproofing materials on structural members, or other materials on surfaces for acoustical, fireproofing, or other purposes. All surfacing materials were collected with at least three (3) bulk samples by an accredited inspector in a statistically random manner that is representative of the previously identified homogeneous area.

#### Miscellaneous Materials

Miscellaneous materials are defined as building material on structural components, structural members or fixtures, such as floor and ceiling tiles, and does not include surfacing material or TSI. All miscellaneous materials were collected by an accredited inspector in a manner sufficient to determine whether material is ACM or not ACM. An accredited inspector collected bulk samples from each identified homogeneous area.

#### Thermal System Insulation

Thermal System Insulation (TSI) includes pipe insulation, boiler insulation, tank insulation, any insulation and other insulation needed for heating/cooling processes. At least three (3) samples of TSI were collected in a statistically random matter.

#### ACM Analytical Methodology

An appropriate number of samples, per the described methodology, were collected and submitted for analysis to Eurofins CEI, an NC NVLAP accredited laboratory. Samples were analyzed by the Environmental Protection Agency (EPA) 600/R-93/116 Method using Polarized Light Microscopy. Per the EPA if any homogenous material contains >1% asbestos by weight that material is considered asbestos containing and is therefore regulated. A positive stop protocol was also employed. This directive to the lab stops analysis of samples at the first positive analysis of a homogeneous material group, eliminating multiple analyses of the same material.

EPA allows the drywall system components (wallboard, tape and joint compound) to be composited for analysis. See 40 CFR Part 61 (FRL-4821-7) "Asbestos NESHAP Clarification Regarding Analysis of Multi-layered Systems" as published on page 542 of the Federal Register Vol. 59, No. 3 dated January 8th, 1994.

Occupational Safety and Health Administrations (OSHA) considers any percentage of asbestos fiber in building material as a hazard and the building owner must ensure demolition contractor adhere all OSHA regulations regarding building materials containing asbestos fiber.

### Findings/Results

Suspect asbestos-containing materials that were visible/accessible within the residence consisted of the following:

- 001 Gypsum Wallboard Joint Compound
- 002 Roofing, Composite Shingle

Of the suspected asbestos containing materials collected, none were found by analytical analysis to be regulated asbestos materials (>1% by weight).

#### Conclusion/Recommendations

Any additional suspect materials identified outside of this survey should be presumed positive for ACM until further testing is completed.

Enclosed, please find copies of all chains of custody, laboratory analytical data, and licensure. If you have any questions regarding this information, please feel free to contact me at your earliest convenience.

Sincerely,

The EI Group, Inc.

Ms. Kristen Switzer Industrial Hygienist

Appendix A: Chain of Custody & Laboratory Analytical Data

Appendix B: Certifications & Licensure Appendix C: Sample Location Maps

Appendix D: Photographs

#### APPENDIX A: CHAIN OF CUSTODY AND LABORATORY ANALYTICAL DATA



May 9, 2022

The El Group 2101 Gateway Centre Blvd., Ste. 200 Morrisville, NC 27560

**CLIENT PROJECT:** APP-09213, INSP-0012863; IHMO220083.00

CEI LAB CODE: A223159

Dear Customer:

Enclosed are asbestos analysis results for PLM Bulk samples received at our laboratory on May 5, 2022. The samples were analyzed for asbestos using polarizing light microscopy (PLM) per the EPA 600 Method.

Sample results containing >1% asbestos are considered asbestos-containing materials (ACMs) per EPA regulatory requirements. The detection limit for the EPA 600 Method is <1% asbestos by weight as determined by visual estimation.

Thank you for your business and we look forward to continuing good relations.

Kind Regards,

Tianbao Bai, Ph.D., CIH Laboratory Director





# ASBESTOS ANALYTICAL REPORT By: Polarized Light Microscopy

#### Prepared for

# The El Group

CLIENT PROJECT: APP-09213, INSP-0012863; IHMO220083.00

LAB CODE: A223159

TEST METHOD: EPA 600 / R93 / 116 and EPA 600 / M4-82 / 020

REPORT DATE: 05/09/22

TOTAL SAMPLES ANALYZED: 4

# SAMPLES >1% ASBESTOS:

730 SE Maynard Road • Cary, NC 27511 • 919.481.1413



# Asbestos Report Summary By: POLARIZING LIGHT MICROSCOPY

PROJECT: APP-09213, INSP-0012863; LAB CODE: A223159

IHMO220083.00

#### METHOD: EPA 600 / R93 / 116 and EPA 600 / M4-82 / 020

Client ID	Layer	Lab ID	Color	Sample Description	ASBESTOS %
001A		A223159.01	White	Gypsum Wallboard/joint Compound	None Detected
001B		A223159.02	White	Gypsum Wallboard/joint Compound	None Detected
002A		A223159.03	Black	Roofing, Composite Shingle	None Detected
002B		A223159.04	Black	Roofing, Composite Shingle	None Detected

730 SE Maynard Road • Cary, NC 27511 • 919.481.1413



#### **ASBESTOS BULK ANALYSIS**

By: POLARIZING LIGHT MICROSCOPY

Client: The ⊟ Group Lab Code: A223159

 2101 Gateway Centre Blvd., Ste. 200
 Date Received:
 05-05-22

 Morrisville, NC 27560
 Date Analyzed:
 05-09-22

 Date Reported:
 05-09-22

Project: APP-09213, INSP-0012863; IHMO220083.00

#### ASBESTOS BULK PLM, EPA 600 METHOD

Client ID Lab ID	Lab Description	Lab Attributes	NON-ASBESTOS Fibrous		COMPONENTS Non-Fibrous		ASBESTOS %
<b>001A</b> A223159.01	Gypsum Wallboard/join Compound	tHeterogeneous White Fibrous Bound	15%	Cellulose	73 % 10 % 2%	Gypsum Calc Carb Paint	None Detected
<b>001B</b> A223159.02	Gypsum Wallboard/join Compound	tHeterogeneous White Fibrous Bound	15%	Cellulose	73 % 10 % 2%	Gypsum Calc Carb Paint	None Detected
<b>002 A</b> A223159.03	Roofing, Composite Shingle	Heterogeneous Black Fibrous Bound	30%	Fiberglass	60 % 10 %	Tar Gravel	None Detected
<b>002 B</b> A223159.04	Roofing, Composite Shingle	Heterogeneous Black Fibrous Bound	30%	Fiberglass	60 % 10 %	Tar Gravel	None Detected



**LEGEND:** Non-Anth = Non-Asbestiform Anthophyllite

Non-Trem = Non-Asbestiform Tremolite Calc Carb = Calcium Carbonate

METHOD: EPA 600 / R93 / 116 and EPA 600 / M4-82 / 020

REPORTING LIMIT: <1% by visual estimation

REPORTING LIMIT FOR POINT COUNTS: 0.25% by 400 Points or 0.1% by 1,000 Points

REGULATORY LIMIT: >1% by weight

Due to the limitations of the EPA 600 method, nonfriable organically bound materials (NOBs) such as vinyl floor tiles can be difficult to analyze via polarized light microscopy (PLM). EPA recommends that all NOBs analyzed by PLM, and found not to contain asbestos, be further analyzed by Transmission Electron Microscopy (TEM). Please note that PLM analysis of dust and soil samples for asbestos is not covered under NVLAP accreditation. Estimated measurement of uncertainty is available on request.

This report relates only to the samples tested or analyzed and may not be reproduced, except in full, without written approval by Eurofins CEI. Eurofins CEI makes no warranty representation regarding the accuracy of client submitted information in preparing and presenting analytical results. Interpretation of the analytical results is the sole responsibility of the client. Samples were received in acceptable condition unless otherwise noted. This report may not be used by the client to claim product endorsement by NVLAP or any other agency of the U.S. Government.

Information provided by customer includes customer sample ID and sample description.

NALYST:

APPROVED BY:

Laboratory Director



#### APPENDIX B: LICENSES AND CERTIFICATIONS



ROY COOPER . Governor

MANDY COHEN, MD, MPH . Secretary

MARK T. BENTON . Assistant Secretary for Public Health,

Division of Public Health

October 14, 2021

Brian T Long 884 Ribbonleaf Ln Fuquay Varina, NC 27526

Dear Mr. Long:

Based upon the review of your accreditation application, the Health Hazards Control Unit (HHCU) has determined that you have fulfilled the requirements and are eligible for asbestos accreditation as a(n) INSPECTOR. Your assigned North Carolina accreditation number is 13212, which is reflected on your enclosed North Carolina Accreditation card. Please be sure to take this card with you to any asbestos work site where you are employed. The State requires that all persons conducting asbestos abatement or asbestos management activities be accredited and have their identification card on site.

Your North Carolina Inspector accreditation will expire on SEPTEMBER 30, 2022. It is NOT the policy of the HHCU to issue renewal notices. If you wish to continue working as a(n) Inspector after this expiration date, you must successfully complete the required training and submit a completed application to this office prior to September 30, 2022. If you should continue to perform asbestos management activities as a(n) Inspector without a valid North Carolina accreditation, you will be in violation of State regulations and may be cited for noncompliance.

Sincerely,

Ed Norman Program Manager

Health Hazards Control Unit

North Carolina
Asbestos Accreditation

EXPIRATION

09-30-2022

DOB SEX HT WT

09-03-1988 M 6'2" 215

CLASS # EXP

INSPECTOR 13212 09-22

Brian T Long
884 Ribbonleaf Ln
Fuquay Varina, NC 27526

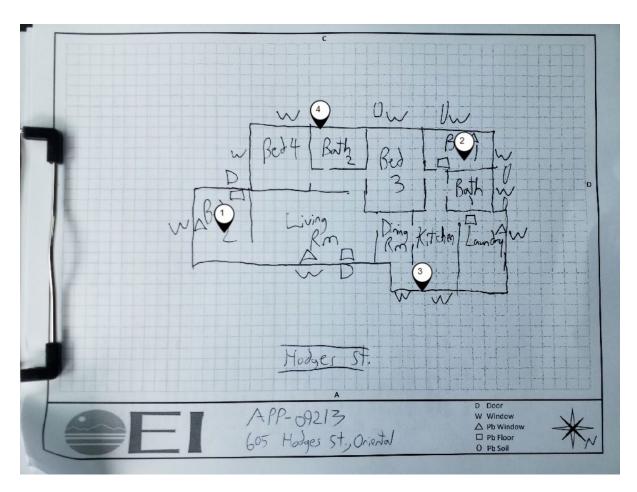
NC DEPARTMENT OF HEALTH AND HUMAN SERVICES . DIVISION OF PUBLIC HEALTH

LOCATION: 5505 Six Forks Road, Building 1, Raleigh, NC 27609
MAILING ADDRESS: 1912 Mail Service Center, Raleigh, NC 27699-1912
www.ncdhhs.gov . TEL: 919-707-5950 . FAX: 919-870-4808

AN EQUAL OPPORTUNITY / AFFIRMATIVE ACTION EMPLOYER

13212, 09/30/2022, North Carolina, Brian Long

# APPENDIX C: SAMPLE LOCATION MAPS



Map ID	Sample ID	Space Name	Material	Lab Result	Analytical Result
1	001A	Bedroom	001 - Gypsum	Tested Negative by	N/A
		2	Wallboard Joint	Lab (No Asbestos	
			Compound	Detected)	
2	001B	Bedroom	001 - Gypsum	Tested Negative by	N/A
		1	Wallboard Joint	Lab (No Asbestos	
			Compound	Detected)	
3	002A	Exterior	002 - Roofing,	Tested Negative by	N/A
			Composite Shingle	Lab (No Asbestos	
				Detected)	
4	002B	Exterior	002 - Roofing,	Tested Negative by	N/A
			Composite Shingle	Lab (No Asbestos	
			-	Detected)	

#### **APPENDIX D: PHOTOGRAPHS**

#### Asbestos-Containing Material (Tested Greater Than 1%) Photographs

No images found for samples that have tested positive containing at least 1% asbestos

#### **Asbestos-Containing Material (Assumed Positive) Photographs**

No images found for homogenous materials that are assumed positive containing asbestos

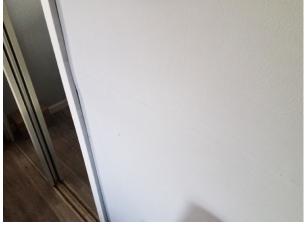
### Trace Positive Material (Equal to or Less Than 1% Asbestos) Photographs

No images found for samples that have tested positive containing less than or equal to 1% asbestos.

#### **Materials That Tested Negative for Asbestos Photographs**



001A, 001 - Gypsum Wallboard Joint Compound, Bedroom 2, Main Floor



001B, 001 - Gypsum Wallboard Joint Compound, Bedroom 1, Main Floor



002A, 002 - Roofing, Composite Shingle, Exterior, Main Floor

# **Elevation Photos**



Side A, Main Floor



Side C, Main Floor



Laundry Room, Main Floor



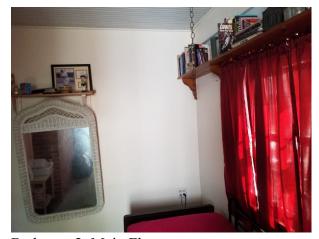
Side B, Main Floor



Side D, Main Floor



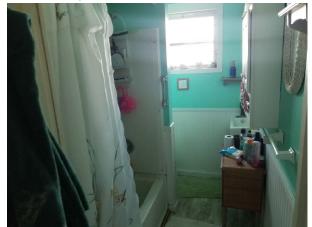
Kitchen, Main Floor



Bedroom 2, Main Floor



Bedroom 1, Main Floor



Bathroom, Main Floor



Living Room, Main Floor



Bedroom 3, Main Floor



# HOMEOWNER RECOVERY PROGRAM Asbestos QC Checklist

Inspection Information					
Application ID Number:	APP-09213	Inspection Date:	5-4-22		
ACM Inspection Company:	The El Group, Inc.	ACM Inspector:	Brian Long		
QC Reviewer: Tom Majkowski					

Applicant Information	Confir	med	Comment
Name	⊠ Yes	□ No	
Address	⊠ Yes	□ No	
Application ID Number	⊠ Yes	□ No	
Date Inspected	⊠ Yes	□ No	
Inspector Name	⊠ Yes	□ No	
ACM Report	Confir	med	Comment
Asbestos Content Determination	⊠ Yes	□ No	
Conclusions	⊠ Yes	□ No	
Table 1 (Suspected ACBM)	⊠ Yes	□ No	
Table 2 (Confirmed ACBM)	⊠ Yes	□ No	
Table 3 (PACM or ACM)	⊠ Yes	□ No	
Table 4 (Sample Locations)	⊠ Yes	□ No	
Drawings	⊠ Yes	□ No	
Special Conditions	☐ Yes	⊠ No	N/A
Inspector License/Certification	⊠ Yes	□ No	
Firm License/Certification	☐ Yes	⊠ No	N/A
Laboratory Certification	⊠ Yes	□ No	
Lab Data	⊠ Yes	□ No	
Photographic documentation	⊠ Yes	□ No	

ReBuild NC is a program of the North Carolina Office of Recovery and Resiliency Last Updated: September 8, 2020





Photos	Confirmed	Comment
Exterior Photos	⊠ Yes □ No	
Photos (labeled) and Date Stamped	⊠ Yes □ No	
Close-ups of Suspect Items	⊠ Yes □ No	
ECR Line Items	Confirmed	Comment
Title Page	□ Yes □ No	
Breakdown by Room	☐ Yes ☐ No	
Summary	☐ Yes ☐ No	
Photos	□ Yes □ No	
Sketch	☐ Yes ☐ No	
Salesforce Entries	Confirmed	Comment
Status - Report Approved	□ Yes □ No	
Active Record	□ Yes □ No	
Inspection Date	□ Yes □ No	
Asbestos Identified	☐ Yes ☐ No	
Asbestos Remediation Scope	□ Yes □ No	
Remediation Amount is correct	☐ Yes ☐ No	
Document Uploaded	☐ Yes ☐ No	

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