



Environmental, Health and Safety Solutions.™



July 1, 2021

Dewberry Engineers, Inc. – ReBuild Phase 2
1545 Peachtree Street NE
Atlanta, Georgia 30309

RE: Limited Asbestos Inspection-Roofing Materials
1231 Murchistown Road, Sanford, North Carolina
EI Project No: IHMO210166.00
ReBuild NC Batch ID: APP-04362, INSP-0004634

Dear Ms. Jacquelyn Alexander:

Per the contract outlined by The North Carolina Office of Recover and Resiliency (NCORR), The EI Group, Inc. performed a limited asbestos inspection of the residence located at 1231 Murchistown Road, Sanford, North Carolina. The inspection was performed by Mr. Robert Campbell (NC Asbestos Inspector #12934) on June 14, 2021 and limited to suspect roofing materials not included in the scope of EI's previous asbestos inspection of the residence performed on November 21, 2020.

Methodology

An appropriate number of samples, per the AHERA protocol, were collected and submitted for analysis Eurofins CEI Analytical, Inc. who is an accredited laboratory (NC NVLAP) located in Cary, North Carolina. 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.

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

Findings/Results

Suspect asbestos-containing materials that were visible/accessible from the residence's ground level perimeter consisted of the following:

- Black-Brown Shingles/ Black-Tan Roofing Paper

Of the suspected asbestos containing material/s 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, and laboratory analytical data. If you have any questions regarding this information, please feel free to contact me at your earliest convenience.

Sincerely,
The EI Group, Inc.

A handwritten signature in cursive script that reads "Kristen Switzer". The signature is written in black ink and is positioned above the printed name and title.

Kristen Switzer
Industrial Hygienist

Appendix A: Chain of Custody & Laboratory Analytical Data

Appendix B: Certifications & Licensure

Appendix C: Photographs

Appendix A: Chain of Custody & Laboratory Analytical Data

June 18, 2021

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

CLIENT PROJECT: APP - 04362, ASB Roof
CEI LAB CODE: B215045

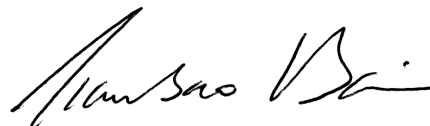
Dear Customer:

Enclosed are asbestos analysis results for PLM Bulk samples received at our laboratory on June 17, 2021. 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



CEI

ASBESTOS ANALYTICAL REPORT

By: Polarized Light Microscopy

Prepared for

The EI Group

CLIENT PROJECT: APP - 04362, ASB Roof

LAB CODE: B215045

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

REPORT DATE: 06/18/21

TOTAL SAMPLES ANALYZED: 4

SAMPLES >1% ASBESTOS:



CEI

Asbestos Report Summary

By: POLARIZING LIGHT MICROSCOPY

PROJECT: APP - 04362, ASB Roof

LAB CODE: B215045

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

Client ID	Layer	Lab ID	Color	Sample Description	ASBESTOS %
1231-01A		B83293	Black,Tan	Roofing Paper	None Detected
1231-01B		B83294	Black,Brown	Shingle	None Detected
1231-02A		B83295	Black,Tan	Roofing Paper	None Detected
1231-02B		B83296	Black,Brown	Shingle	None Detected



CEI

ASBESTOS BULK ANALYSIS

By: POLARIZING LIGHT MICROSCOPY

Client: The EI Group
2101 Gateway Centre Blvd., Ste. 200
Morrisville, NC 27560

Lab Code: B215045
Date Received: 06-17-21
Date Analyzed: 06-18-21
Date Reported: 06-18-21

Project: APP - 04362, ASB Roof

ASBESTOS BULK PLM, EPA 600 METHOD

Client ID Lab ID	Lab Description	Lab Attributes	NON-ASBESTOS COMPONENTS				ASBESTOS %
			Fibrous		Non-Fibrous		
1231-01A B83293	Roofing Paper	Heterogeneous Black, Tan Fibrous Loosely Bound	85%	Cellulose	15%	Binder	None Detected
1231-01B B83294	Shingle	Heterogeneous Black, Brown Fibrous Bound	50%	Fiberglass	40%	Tar Gravel Paint	None Detected
1231-02A B83295	Roofing Paper	Heterogeneous Black, Tan Fibrous Loosely Bound	85%	Cellulose	15%	Binder	None Detected
1231-02B B83296	Shingle	Heterogeneous Black, Brown Fibrous Bound	50%	Fiberglass	40%	Tar Gravel Paint	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.

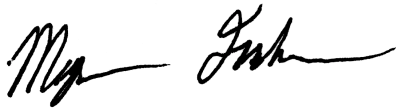
Information provided by customer includes customer sample ID and sample description.

ANALYST:


Valerie King

APPROVED BY:


Tianbao Bai, Ph.D., CIH
Laboratory Director



Megan Fisher



CEI

CHAIN OF CUSTODY

730 SE Maynard Road, Cary, NC 27511
 Tel: 866-481-1412; Fax: 919-481-1442

LAB USE ONLY:

CEI Lab Code: **B215045**

CEI Lab I.D. Range: **B 83293- B83296**

4

COMPANY INFORMATION		PROJECT INFORMATION
CEI CLIENT #:		Job Contact: K. Switzer
Company: El Group		Email / Tel: 919 459 5241
Address: 2101 Gateway Centre Blvd, Suite 200 Morrisville, NC 27560		Project Name ASB Roof
Email: Kswitzer@ei1.com		Project ID#: APP - 04362
Tel:919.316.8560	Fax: 919.657.7551	PO #:
		STATE SAMPLES COLLECTED IN: NC

IF TAT IS NOT MARKED STANDARD 3 DAY TAT APPLIES.

ASBESTOS	METHOD	TURN AROUND TIME					
		4 HR	8 HR	1 DAY	2 DAY	3 DAY	5 DAY
PLM BULK	EPA 600	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
PLM POINT COUNT (400)	EPA 600	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
PLM POINT COUNT (1000)	EPA 600	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
PLM GRAV w POINT COUNT	EPA 600		<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
PLM BULK	CARB 435		<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
PCM AIR	NIOSH 7400	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
TEM AIR	EPA AHERA	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
TEM AIR	NIOSH 7402	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
TEM AIR (PCME)	ISO 10312	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
TEM AIR	ASTM 6281-15	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
TEM BULK	CHATFIELD		<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
TEM DUST WIPE	ASTM D6480-05 (2010)	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
TEM DUST MICROVAC	ASTM D5755-09 (2014)	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
TEM SOIL	ASTM D7521-16			<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
TEM VERMICULITE	CINCINNATI METHOD			<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
TEM QUALITATIVE	IN-HOUSE METHOD		<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
OTHER:		<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

			<input checked="" type="checkbox"/> ^{BVB} Accept Samples <input type="checkbox"/> Reject Samples
Relinquished By:	Date/Time	Received By:	Date/Time
<i>[Signature]</i>	6/16/2021	CBB	6/17 8:00 AM

Samples will be disposed of 30 days after analysis

Appendix B: Certifications & Licensure



NC DEPARTMENT OF
**HEALTH AND
HUMAN SERVICES**

ROY COOPER • Governor

MANDY COHEN, MD, MPH • Secretary

MARK T. BENTON • Assistant Secretary for Public Health,

Division of Public Health

March 23, 2021

Robert L Campbell
555 N Ashe St Apt I
Southern Pines, NC 28387

Dear Mr. Campbell:

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 12934, 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 DECEMBER 31, 2021. 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 December 31, 2021. 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



Robert L Campbell
555 N Ashe St Apt I
Southern Pines, NC 28387

131813

EXPIRATION			
12-31-2021			
DOB	SEX	HT	WT
05-05-1974	M	5'8"	245
CLASS	#	EXP	
INSPECTOR	12934	12-21	
MGMT PLANNER	21049	12-21	

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

Appendix C: Photographs



Front of Residence & Roofing Shingles



Back of Residence



Environmental, Health and Safety Solutions.™



December 4, 2020

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

RE: Asbestos Inspection

1231 Murchisontown Road, Sanford, North Carolina 27332

EI Project No:IHMO200333.00

ReBuild NC Batch ID: APP-04362, ISNP-0004634

Dear Ms. Jacquelyn Alexander:

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 1231 Murchisontown Road in Sanford, North Carolina. The inspection was performed by Mr. Perry Pence (NC Asbestos Inspector #11588) on November 21, 2020 and limited to the residence's accessible interior and exterior (roofing materials were excluded).

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:

- White Sheet Vinyl
- Brown Sheet Vinyl
- Grey Sheet Vinyl, Master Bath
- White Gypsum Wallboard
- White Textured Ceiling
- Pink Wall Insulation

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

December 1, 2020

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

CLIENT PROJECT: 1231 Murchisontown Rd. Sanford NC, APP-04362
CEI LAB CODE: B2011498

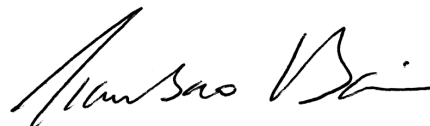
Dear Customer:

Enclosed are asbestos analysis results for PLM Bulk samples received at our laboratory on November 24, 2020. 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



CEI

ASBESTOS ANALYTICAL REPORT

By: Polarized Light Microscopy

Prepared for

The EI Group

CLIENT PROJECT: 1231 Murchisontown Rd. Sanford NC, APP-04362

LAB CODE: B2011498

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

REPORT DATE: 12/01/20

TOTAL SAMPLES ANALYZED: 13

SAMPLES >1% ASBESTOS:



CEI

Asbestos Report Summary

By: POLARIZING LIGHT MICROSCOPY

PROJECT: 1231 Murchisontown Rd. Sanford NC,
APP-04362

LAB CODE: B2011498

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

Client ID	Layer	Lab ID	Color	Sample Description	ASBESTOS %
001A		B174149	White,Gray	Sheet Vinyl	None Detected
001B		B174150	White,Gray	Sheet Vinyl	None Detected
002A		B174151A	Brown,Black	Floor Tile	None Detected
002A		B174151B	Clear	Mastic	None Detected
002B		B174152A	Brown,Black	Floor Tile	None Detected
002B		B174152B	Clear	Mastic	None Detected
003A		B174153A	Gray,White	Floor Tile	None Detected
003A		B174153B	Tan	Mastic	None Detected
003B		B174154A	Gray,White	Floor Tile	None Detected
003B		B174154B	Tan	Mastic	None Detected
004A		B174155	White,Off-white	Wallboard/Mud	None Detected
004B		B174156	White,Off-white	Wallboard/Mud	None Detected
005A		B174157	White	Textured Ceiling	None Detected
005B		B174158	White	Textured Ceiling	None Detected
005C		B174159	White	Textured Ceiling	None Detected
006A		B174160	Pink	Insulation	None Detected
006B		B174161	Pink	Insulation	None Detected



CEI

ASBESTOS BULK ANALYSIS

By: POLARIZING LIGHT MICROSCOPY

Client: The EI Group
2101 Gateway Centre Blvd., Ste. 200
Morrisville, NC 27560

Lab Code: B2011498
Date Received: 11-24-20
Date Analyzed: 12-01-20
Date Reported: 12-01-20

Project: 1231 Murchisontown Rd. Sanford NC, APP-04362

ASBESTOS BULK PLM, EPA 600 METHOD

Client ID Lab ID	Lab Description	Lab Attributes	NON-ASBESTOS COMPONENTS				ASBESTOS %
			Fibrous		Non-Fibrous		
001A B174149	Sheet Vinyl	Heterogeneous White, Gray Fibrous Bound	25%	Cellulose	50%	Vinyl Binder	None Detected
001B B174150	Sheet Vinyl	Heterogeneous White, Gray Fibrous Bound	25%	Cellulose	50%	Vinyl Binder	None Detected
002A B174151A	Floor Tile	Heterogeneous Brown, Black Non-fibrous Tightly Bound	<1%	Synthetic Fiber	100%	Vinyl	None Detected
Lab Notes: Sample appears to be floor tile. No sheet vinyl present							
002A B174151B	Mastic	Homogeneous Clear Non-fibrous Bound	<1%	Cellulose	100%	Mastic	None Detected
002B B174152A	Floor Tile	Heterogeneous Brown, Black Non-fibrous Tightly Bound	<1%	Synthetic Fiber	100%	Vinyl	None Detected
Lab Notes: Sample appears to be floor tile. No sheet vinyl present							
002B B174152B	Mastic	Homogeneous Clear Non-fibrous Bound	<1%	Cellulose	100%	Mastic	None Detected
003A B174153A	Floor Tile	Heterogeneous Gray, White Non-fibrous Tightly Bound			100%	Vinyl	None Detected
Lab Notes: Sample appears to be floor tile. No sheet vinyl present							

ASBESTOS BULK ANALYSIS

By: POLARIZING LIGHT MICROSCOPY

Client: The EI Group
 2101 Gateway Centre Blvd., Ste. 200
 Morrisville, NC 27560

Lab Code: B2011498
Date Received: 11-24-20
Date Analyzed: 12-01-20
Date Reported: 12-01-20

Project: 1231 Murchisontown Rd. Sanford NC, APP-04362

ASBESTOS BULK PLM, EPA 600 METHOD

Client ID Lab ID	Lab Description	Lab Attributes	NON-ASBESTOS COMPONENTS			ASBESTOS %	
			Fibrous	Non-Fibrous			
003A B174153B	Mastic	Homogeneous Tan Non-fibrous Bound	<1%	Cellulose	100%	Mastic	None Detected
003B B174154A	Floor Tile	Heterogeneous Gray,White Non-fibrous Tightly Bound			100%	Vinyl	None Detected
Lab Notes: Sample appears to be floor tile. No sheet vinyl present							
003B B174154B	Mastic	Homogeneous Tan Non-fibrous Bound	<1%	Cellulose	100%	Mastic	None Detected
004A B174155	Wallboard/Mud	Heterogeneous White,Off-white Fibrous Bound	15% 5%	Cellulose Fiberglass	<1% 5% 75%	Paint Calc Carb Gypsum	None Detected
004B B174156	Wallboard/Mud	Heterogeneous White,Off-white Fibrous Bound	15% 5%	Cellulose Fiberglass	<1% 5% 75%	Paint Calc Carb Gypsum	None Detected
005A B174157	Textured Ceiling	Heterogeneous White Non-fibrous Bound			<1% 80% 20%	Paint Calc Carb Binder	None Detected
005B B174158	Textured Ceiling	Heterogeneous White Non-fibrous Bound			<1% 80% 20%	Paint Calc Carb Binder	None Detected

ASBESTOS BULK ANALYSIS

By: POLARIZING LIGHT MICROSCOPY

Client: The EI Group
 2101 Gateway Centre Blvd., Ste. 200
 Morrisville, NC 27560

Lab Code: B2011498
Date Received: 11-24-20
Date Analyzed: 12-01-20
Date Reported: 12-01-20

Project: 1231 Murchisontown Rd. Sanford NC, APP-04362

ASBESTOS BULK PLM, EPA 600 METHOD

Client ID Lab ID	Lab Description	Lab Attributes	NON-ASBESTOS COMPONENTS		ASBESTOS %
			Fibrous	Non-Fibrous	
005C B174159	Textured Ceiling	Heterogeneous White Non-fibrous Bound	<1% 80% 20%	Paint Calc Carb Binder	None Detected
006A B174160	Insulation	Homogeneous Pink Fibrous Loosely Bound	100%	Fiberglass	None Detected
006B B174161	Insulation	Homogeneous Pink Fibrous Loosely Bound	100%	Fiberglass	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.*


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

ANALYST: _____


Jessica Frampton

APPROVED BY: _____


Tianbao Bai, Ph.D., CIH
Laboratory Director



CHAIN OF CUSTODY

730 SE Maynard Road, Cary, NC 27511
 Tel: 866-481-1412; Fax: 919-481-1442

CEI

LAB USE ONLY:	
CEI Lab Code:	B2011498
CEI Lab I.D. Range:	B174149 - B174161

13

COMPANY INFORMATION		PROJECT INFORMATION	
CEI CLIENT #:		Job Contact: Kristen Switzer	
Company: The EI Group, Inc.		Email / Tel: 919-459-5241	
Address: 2101 Gateway Centre Blvd. Ste 200		Project Name: 1231 Murchisontown Rd. Sanford NC	
Morrisville, NC 27560		Project ID#: APP-04362	
Email: kswitzer@ei1.com		PO #:	
Tel: 919-459-5241	Fax: 919-657-7551	STATE SAMPLES COLLECTED IN: NC	

IF TAT IS NOT MARKED STANDARD 3 DAY TAT APPLIES.

ASBESTOS	METHOD	TURN AROUND TIME					
		4 HR	8 HR	1 DAY	2 DAY	3 DAY	5 DAY
PLM BULK	EPA 600	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
PLM POINT COUNT (400)	EPA 600	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
PLM POINT COUNT (1000)	EPA 600	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
PLM GRAV w POINT COUNT	EPA 600	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
PLM BULK	CARB 435	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
PCM AIR	NIOSH 7400	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
TEM AIR	EPA AHERA	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
TEM AIR	NIOSH 7402	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
TEM AIR (PCME)	ISO 10312	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
TEM AIR	ASTM 6281-15	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
TEM BULK	CHATFIELD	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
TEM DUST WIPE	ASTM D6480-05 (2010)	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
TEM DUST MICROVAC	ASTM D5755-09 (2014)	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
TEM SOIL	ASTM D7521-16	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
TEM VERMICULITE	CINCINNATI METHOD	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
TEM QUALITATIVE	IN-HOUSE METHOD	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
OTHER:		<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

REMARKS / SPECIAL INSTRUCTIONS:		<input checked="" type="checkbox"/> Accept Samples <input type="checkbox"/> Reject Samples	
*Positive Stop			
Relinquished By:	Date/Time	Received By:	Date/Time
Perry Vance	11/23/20	CB	11/24 10:10

Samples will be disposed of 30 days after analysis

APPENDIX B: LICENSES AND CERTIFICATIONS

North Carolina
Asbestos Accreditation



Perry L Pence
1213 Deer Hill Dr
Wilmington, NC 28409

129301

EXPIRATION

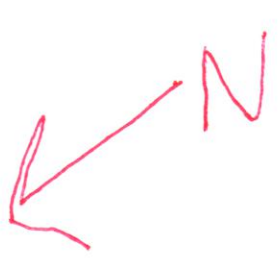
05-31-2021

DOB	SEX	HT	WT
11-11-1967	M	6'0"	230
CLASS		#	EXP
AIR MONITOR		80509	05-21
INSPECTOR		11588	05-21
SUPERVISOR		33295	05-21

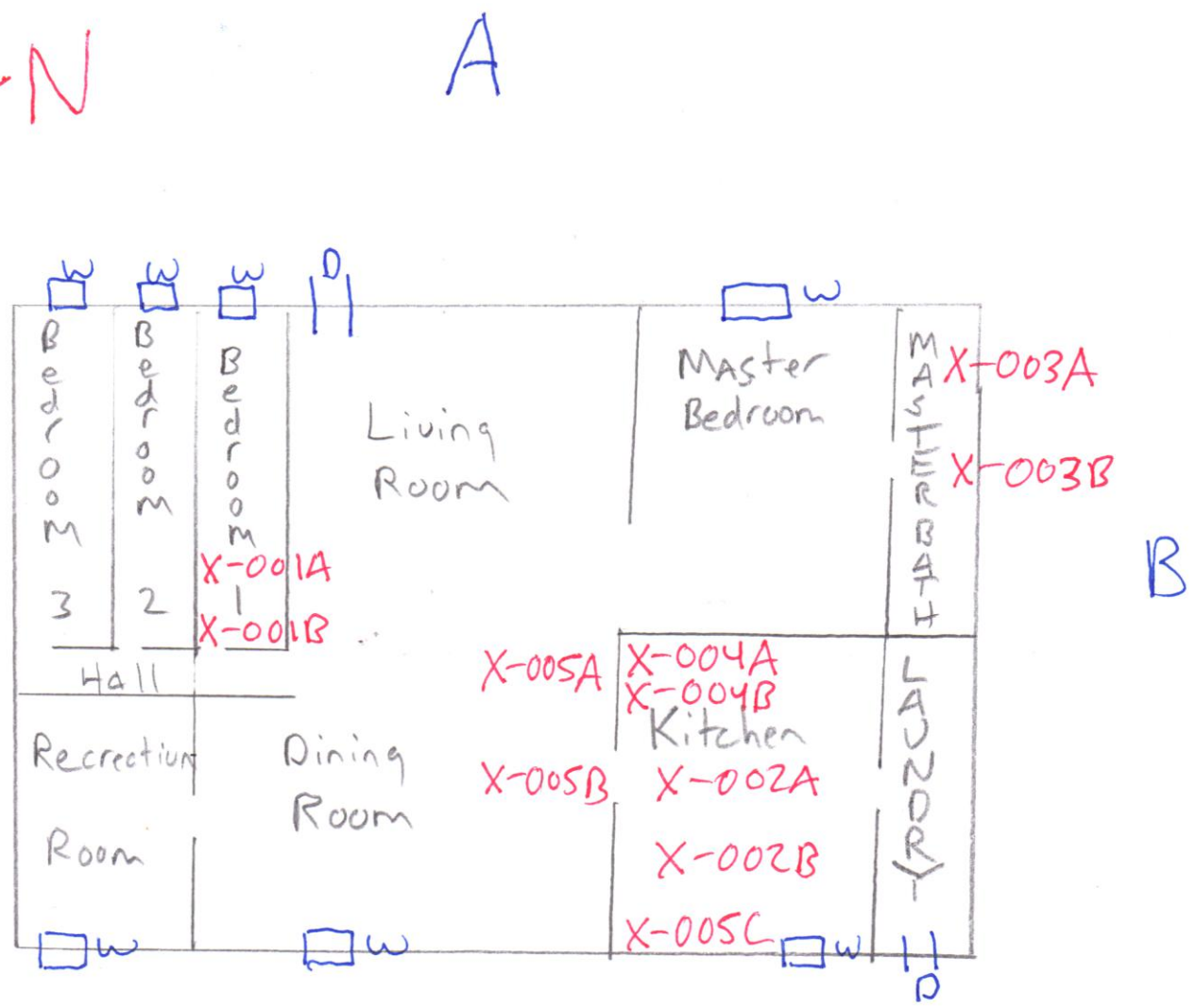
APPENDIX C: SAMPLE LOCATION MAPS

Site Drawing:
Asbestos Sample Locations: ⊕
Not to Scale: 1231 Murchisontown Rd., Sanford, NC

Murchisontown Road



D



C

APPENDIX D: PHOTOGRAPHS



Elevation A



Elevation B



Elevation C



Elevation D



Sheet Vinyl – Negative for Asbestos



Sheet Vinyl – Negative for Asbestos



Gypsum Wallboard & Pink Wall Insulation, Negative
for Asbestos



Textured Ceiling – Negative for Asbestos