

## **County of Cumberland**

### **INVITATION TO BID DEMOLITION OF VACANT RESIDENTIAL STRUCTURES**

### **DISASTER RECOVERY PROGRAMS (DRA/HMGP)**

**ITB #19-001-2**

**Advertise Date: February 7, 2020**

**Due Date: February 27, 2020**

**Release Date: February 7, 2020**



## INVITATION TO BID DEMOLITION OF VACANT RESIDENTIAL STRUCTURES

### DISASTER RECOVERY PROGRAMS (DRA/HMGP)

Cumberland County is soliciting written bids for the demolition of vacant residential structures located at the following addresses:

**GROUP 1:** 4559 Pennystone Dr., Fayetteville, NC  
4555 Pennystone Dr., Fayetteville, NC  
4535 Pennystone Dr., Fayetteville, NC

**GROUP 2:** 4245 Cameron Rd., Hope Mills, NC  
4348 Cameron Rd., Hope Mills, NC  
4122 Freedom Ln., Hope Mills, NC  
3929 E. Cole St., Hope Mills, NC  
4310 Cameron Rd., Hope Mills, NC

3194 Orangeburg Dr., Eastover, NC

290 W. Manchester Rd., Spring Lake, NC

Additional properties may be acquired in the future for demolition depending on the availability of funding

### DESCRIPTION

The project consists of demolition, debris removal, backfill and grading, reseeding and complete site cleanup. The successful contractor shall have 30 calendar days to complete the demolition from the date of the Notice to Proceed is received for each site.

The Contractor shall hold a Contractor's license in either Demolition, Building Construction or Rigging, Housing Moving, Wrecking and Dismantling and your license number shall be included in your quote.

**Bid Specs and documents are included in this package, as well as on the County's website**

[http://co.cumberland.nc.us/departments/community-development-group/community\\_development/request-for-proposal-applications](http://co.cumberland.nc.us/departments/community-development-group/community_development/request-for-proposal-applications)

**The Bidding Firm must submit a bid for each property on the Bid Form in a sealed envelope and clearly marked:**

**Vacant Residential Demolition Structures – ITB #19-001-2**

### DEADLINE FOR SUBMISSION

**Bids will be received until 4:30 pm, February 27, 2020.**

Bids shall be mailed to Cumberland County Community Development Department at 707 Executive Place, Fayetteville, NC 28303 or hand delivered – Attn: Sylvia H.-McLean, CD Consultant, CDBG-DR. Any questions, you may email Sylvia H-McLean at [smclean@co.cumberland.nc.us](mailto:smclean@co.cumberland.nc.us) Bids received late will not be accepted.

Cumberland County reserves the right to reject any or all bids and to accept any bid, or portion thereof, which, in their opinion, is most advantageous to the County.

## **GENERAL INFORMATION AND REQUIREMENTS**

### **Public Information**

All information, documentation, and other materials submitted in response to this solicitation are considered non-confidential and/or non-proprietary and are subject to public disclosure.

### **MWE/WBE & Utilization of Small Businesses**

Please state and certify whether your firm or any potential sub-contractors participate in the Minority and Women Owned Business Enterprise (MBE/WBE). It is the policy of the United States that small business concerns, veteran-owned small business concerns, service-disabled veteran-owned small business concerns, HUB Zone small business concerns, small disadvantaged business concerns, and women-owned small business concerns shall have the maximum practicable opportunity to participate in performing contracts let by any Federal agency, including contracts and subcontracts for subsystems, assemblies, components, and related services for major systems. It is further the policy of the United States that its prime contractors establish procedures to ensure the timely payment of amounts due pursuant to the terms of their subcontracts with small business concerns, veteran-owned small business concerns, service-disabled veteran-owned small business concerns, HUB Zone small business concerns, small disadvantaged business concerns, and women-owned small business concerns.

The Contractor hereby agrees to carry out this policy in the awarding of subcontracts to the fullest extent consistent with efficient contract performance. The Contractor further agrees to cooperate in any studies or surveys as may be conducted by the United States Small Business Administration or the awarding agency of the United States as may be necessary to determine the extent of the Contractor's compliance with this clause.

Contractors acting in good faith may rely on written representations by their subcontractors regarding their status as a small business concern, a veteran-owned small business concern, a service-disabled veteran-owned small business concern, a small disadvantaged business concern, or a women-owned small business concern.

### **No Lobbying**

Respondent acknowledges and accepts that from the Date of Issuance of the ITB until a final decision has been made by the County, it will not take any action, may any effort or support or engage other on its behalf to take actions or efforts with attempt to influence the decision-making process for this ITB in the favor of the Respondent. This includes direct contact with the County Commissioners, County Manager, County Staff or Contracted Staff of County of Cumberland, and others who may be engaged in the process or grant program. Additionally, the Respondent acknowledges and accepts that it will not attempt to use public communication such as the news media, social media, etc. as a means of attempting to influence the ITB evaluation or decision-making process. Any Respondent violating any of the conditions is subject to immediate disqualification for consideration.

### **No Reimbursement for Costs**

The Respondent acknowledges and accepts that any costs incurred from the Respondent's participation in this ITB shall be at the sole risk and responsibility of the Respondent.

### **Eligible Respondents**

Only individual firms or lawfully formed business organizations may apply (this does not preclude a Respondent from using consultants). The County will contract only with the individual firm or formal organization that submits its Responses.

### **Reference Checks**

Respondent acknowledges and accepts that through the ITB evaluation process reference checks and background investigation may be conducted as part of the due-diligence process.

### **Disposition of Proposals**

All submitted proposals become the property of the County.

### **Nonconforming Terms and Conditions**

A proposal that includes terms and conditions that do not conform to the terms and conditions in the ITB is subject to rejection as non-responsive. The County reserves the right to permit the Proposer to withdraw nonconforming terms and conditions from its proposal prior to a determination by the County of non-responsiveness based on the submission of nonconforming terms and conditions.

### **Debarment and Suspension**

By submitting a proposal, the Proposer certifies that it is not currently debarred nor suspended from submitting a proposal for contracts issued by any political subdivision or agency of the State of North Carolina or the Federal government and that it is not a person or entity that is currently debarred or suspended from submitting proposals from contracts issued by any political subdivision or agency of the State of North Carolina or the Federal government.

### **OTHER SUPPLEMENTAL CONDITIONS REQUIREMENT**

In accordance with the applicable statutes and regulations governing federal funds or State funds, I hereby certify that:

#### *Utilization of Minority/Women & Disadvantaged Contractors –*

Projects receiving federal funds must notify and include minority and women contractors in their bidding process. Executive Order 11625 (Utilization of Minority Business Enterprise) and Executive Order 12138 (Utilization of Female Business Enterprise).

*Davis-Bacon Prevailing Wage Rate Labor Standards –*

Any construction project receiving \$2,000 or more in federal funds, as applicable, will be required to comply with prevailing wage requirement.

*Section 3 –*

Projects receiving federal funding that involve building or public facilities improvements must to the greatest extent feasible, utilize area lower income residents for employment and training opportunities (24 CFR Part 135).

*Environmental Regulations –*

All funded projects must undergo environmental review to ensure compliance with the National Environmental Protection Act regulations. In accordance with 24 CFR Part 58.22, the applicant agrees to refrain from undertaking any physical activities or choice-limiting actions until the County has issued the agency a written environmental notice to proceed. Choice-limited activities include, but not limited to, acquisition of real property, leasing, repair, rehabilitation, demolition, conversion, or new construction. This limitation applies to all parties in the development process, including public or private nonprofit or for-profit entities, or any of their contractors.

*Title VI of the Civil Rights Act of 1964 –*

No person shall be excluded from participation in, be denied the benefits of or subjected to discrimination under any program or activity receiving federal financial assistance on the grounds of race, color, or national origin. (Public Law 99-352).

*Title VIII of Civil Rights Act of 1969 –*

The Fair Housing Act prohibits discrimination in the sale or rental of housing, the financing of housing, or the provision of brokerage services, including otherwise making unavailable or denying a dwelling to a person, because of race, color, religion, sex, national origin, or familial status. (Public Law 90-294).

*American Disabilities Act –*

Projects receiving federal funding involving physical activities must include accessibility and comply with the Americans with Disabilities Act guidelines. Any federal funded service must be provided in an accessible location.

*Drug-Free Workplace –*

The agency shall make a good faith effort to maintain a drug-free workplace. (24 CFR Part 21).

*Anti-Lobbying –*

No federal funds shall be used for the purpose of influencing or attempting to influence an officer or employee of any agency, a member of congress, an officer or employee of congress, or an employee of a member of congress. (UCS Title 31 Section 1352).

*Lead-Based Paint –*

Any activities involving the presence of lead-based shall comply with the requirements of 24 CFR Part 35.

Supplemental Conditions shall be included in all contracts utilizing federal funds.



Submission Proposal/Quote

**County of Cumberland Request for Proposal/Quote  
Submission Form**

**Number 019 – 001-2**

**DEMOLITION OF VACANT RESIDENTIAL  
STURCTURES**

**FOR**

**Disaster Recovery Programs (DRA-17/HMGP)**

**COMPANY NAME:** \_\_\_\_\_

**Contractor's License #** \_\_\_\_\_

**CONTACT PERSON:** \_\_\_\_\_

**TELEPHONE NUMBER:** \_\_\_\_\_

**EMAIL:** \_\_\_\_\_

NOTE TO RESPONDENTS: SUBMIT ENTIRE SECTION WITH RESPONSE. THIS EXECUTION OF OFFER SHALL BE COMPLETED, SIGNED, AND RETURNED WITH THE RESPONDENT'S QUALIFICATIONS. FAILURE TO COMPLETE, SIGN AND RETURN THIS EXECUTION OF OFFER WITH THE QUALIFICATION MAY RESULT IN REJECTION OF THE QUALIFICATIONS.

SIGNING A FALSE STATEMENT MAY VOID THE SUBMITTED QUALIFICATIONS OR ANY AGREEMENTS OR OTHER CONTRACTUAL ARRANGEMENT, WHICH MAY RESULT FROM THE SUBMISSION OF RESPONDENT'S QUALIFICATIONS, AND THE RESPONDENT MAY BE REMOVED FROM ALL PROPOSAL LISTS. A FALSE CERTIFICATION SHALL BE DEEMED A MATERIAL BREACH OF CONTRACT AND AT THE COUNTY'S OPTION, MAY RESULT IN TERMINATION OF ANY RESULTING CONTRACT.

By signature hereon, Respondent acknowledges and agrees that (1) this ITB is a solicitation for Interest and is not a contract or an offer to contract; (2) the submission of Responses by Respondent in response to this ITB will not create a contract between the County and Respondent; (3) Neither the County or the Committee, or any of their representatives, have made a representation or warranty, written or oral, that one or more contracts with the County will be awarded under this ITB; and (4) Respondent shall bear, at its sole risk and responsibility, any cost which arises from Respondent's preparation of a response to this ITB.

By signature hereon, Respondent offers and agrees to furnish to the County all the products and/or services more particularly described in its Responses, and to comply with all terms, conditions and requirements set forth in the ITB document and contained herein.

By signature hereon, Respondent affirms that they have not given, nor intends to give at any time hereafter, any economic opportunity, future employment, gift, loan, gratuity, special discount, trip, favor or service to a public servant, elected officials, leadership or staff of the County.

By signature hereon, the Respondent hereby certifies that neither the Respondent nor the firm, corporation, partnership or Individual represented by the Respondent, or anyone acting for such firm corporation, or institution has violated the antitrust laws of this state or the Federal antitrust laws, nor communicated directly or indirectly the Responses made to any competitor or any other person engaged in such line of business.

By signature hereon, Respondent represents and warrants that:

Respondent is a reputable company regularly engaged in providing products and/or services necessary to meet the terms, conditions and requirements of the ITB;

Respondent has the necessary experience, knowledge, abilities, skills, and resources to satisfactorily perform the terms, conditions and requirements of the ITB;

By signature hereon, Respondent certifies that the individual signing this document and the documents made part of the ITB is authorized to sign such documents on behalf of the company and to bind the company under any agreements or other contractual arrangements, which may result from the submission of the Response.

By signature hereon, Respondent affirms that no compensation has been received for participation in the preparation of the specifications for this ITB.

By signature hereon, Respondent affirms that it has not violated any of the noted No-Lobbying provisions or specifications contained in this ITB.

By signature hereon, Respondent agrees to defend, indemnify, and hold harmless the County and the Committee, all of their officers, agents and employees from and against all claims, actions, suits, demands, proceedings, costs, damages, and liabilities, arising out of, connecting with, or resulting from any acts or omissions or Respondent or any agent, employee, subcontractor or supplier or Respondent in the execution or performance of any agreements or other contractual arrangements which may result from the submission of these Responses.

By signature hereon, Respondent acting in good faith may rely on written representations by their subcontractors regarding their status as a small business concern, a veteran-owned small business concern, a service-disabled veteran-owned small business concern, a small disadvantaged business concern, or a women-owned small business concern. The Respondent shall confirm that a subcontractor representing itself as a HUB Zone small business concern is certified by SBA as a HUB Zone small business concern by accessing the System for Award Management database or by contacting the SBA. Options for contacting the SBA include –

HUB Zone small business database search application Web page at  
[http://dsbs.sba.gov/dsbs/search/dsp\\_searchhubzone.cfm](http://dsbs.sba.gov/dsbs/search/dsp_searchhubzone.cfm); or <http://www.sba.gov/hubzone>; In  
writing to the Director/HUB, U.S. Small Business Administration, 409 3rd Street,  
SW., Washington DC 20416; or  
The SBA HUB Zone Help Desk at [hubzone@sba.gov](mailto:hubzone@sba.gov)

Submitted and certified this \_\_\_\_\_ day of \_\_\_\_\_ By: \_\_\_\_\_

Signature Date: \_\_\_\_\_

Name (Printed): \_\_\_\_\_

Title: \_\_\_\_\_

Signature: \_\_\_\_\_



CUMBERLAND COUNTY COMMUNITY DEVELOPMENT  
707 EXECUTIVE PLACE  
FAYETTEVILLE, NC 28302

INVITATION TO BID DEMOLITION OF VACANT RESIDENTIAL STRUCTURES  
DISASTER RECOVERY PROGRAMS (DRA/HMGP)  
Number 019 – 001-2

BID FORM

Project Address: **4559 Pennystone Drive, Fayetteville, NC**      **GROUP 1**

I, the undersigned Contractor, have inspected the above property and understand the extent and character of the work to be completed as described in the Invitation for Bid dated **February 27, 2020**, general specifications and related documents.

I declare that this bid is made without collusion or fraud and I propose to furnish all labor, materials, equipment, and supervision necessary to accomplish the work, as listed in the above mentioned documents, on the property identified above for the sum of:

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(write out dollar amount)

(\$ \_\_\_\_\_ )

I agree to honor this bid for a minimum of thirty (30) days from the date of the bid opening.

CONTRACTOR'S FIRM: \_\_\_\_\_

SIGNATURE OF OWNER OF FIRM: \_\_\_\_\_

DATE: \_\_\_\_\_

## GENERAL SCOPE - 4559 Pennystone Drive, Fayetteville, NC

### *Vacant Residential Building Demolition Specifications*

*Scope:* This item consists of the removal of all vacant residential building and appurtenances in accordance with the proposal, general provisions and the requirements set forth.

#### *Regulatory Requirements –*

- A. Contractor shall obtain all required permits and/or licenses from local authorities. Comply with Laws and Regulations for demolition of structures, protection of adjacent structures, dust control, runoff control, and disposal.
- B. Conform to all applicable procedure when hazardous or contaminated materials are encountered in accordance to risk assessment / abatement report findings provided by certified risk assessors – see attached.
- C. The discovery of hazardous materials shall be communicated to the County’s Contracting Agency Project Manager immediately. For each class of hazardous material, the contractor shall provide certification that the building components have been disposed of in accordance with local, state and federal requirement for permanent disposal.
- D. Debris shall be removed to a legal landfill as required by EPA and local regulations.
- E. Should asbestos and/or other hazardous substances be found during inspection, the building demolition and site clean-up will be conducted in a way to be compliance with all federal and state environmental laws and regulations.
- F. This project may require abatement of asbestos containing materials by asbestos abatement contractors licensed to work in the State of North Carolina.

#### *Utilities Location and Verification –*

- A. Contact local Utilities Locator Services prior to any demolition to locate water, gas, electric, cable or phone lines. All utilities must be disconnected from property to be demolished.
- B. The Contractor shall verify whether or not underground storage tanks are present at the project site. If underground tanks are present, the Contractor must notify the proper authorities and County’s Contracting Agency Project Manager prior to removal. If septic tank is present, contents must be properly disposed of, the tank crushed in place and back filled in. All work shall comply with local regulatory requirements.

#### *Preparation –*

- A. Provide, erect, and maintain temporary barriers and security devices.
- B. Protect all existing landscape items, appurtenances, and structures which are not scheduled to be demolished. Note that trees over 12” diameter are to remain, unless it is obstructing the actual demolition process. Only debris, trash and manmade materials must be cleared and removed from the site, established vegetation shall remain on the lot.
- C. Prevent movement or settlement of adjacent structures. Provide bracing and shoring as required.

#### *Demolition Requirements –*

- A. Conduct demolition to minimize interference with adjacent structures.
- B. Cease operations immediately if adjacent structures appear to be in danger. Notify the County’s Contracting Agency Project Manager.

- C. Spray all work areas with water to minimize dust. Provide hoses, water connections, and water for this purpose.

*Demolition –*

- A. Remove entirely: all structures including: footing, foundations, floors, concrete slabs, walls, roof structures, contents, etc. to include concrete or asphalt driveways.
- B. Remove entirely all demolished materials, debris, trash, manmade materials from the site, established vegetation shall remain on the lot.
- C. Backfilling shall be performed as per the Site Restoration Specifications.
- D. Do not burn or bury any materials on site.**
- E. All refuse removed from the site shall be disposed of at an approved landfill.

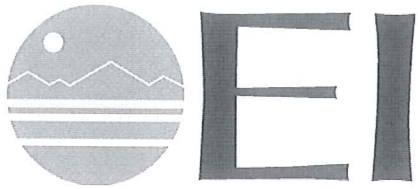
Site Restoration Specifications

*Backfilling – Topsoil*

- A. Approved material for backfilling is clean fill dirt. Backfill materials shall be compacted to at least 95% of optimum density.
- B. Install approximately 4” of topsoil at all disturbed areas.
- C. Remove foreign material, weeds, and debris. Also remove any clods, clumps, lumps, boulders, and stones that are not inclusive of the natural state of the site. Grading should be uniform across the lot.

*Special Provisions –*

The washout at this property shall be filled by the demolition contractor with soil material or approved beneficial fill material (clean block, brick, concrete) to match existing ground elevation on both sides. No wood, sheetrock, siding, plastic, steel, trash, or any other construction material shall be used to fill the washed out area. The price to do so shall be included in the demolition cost of this property. The contractor will be responsible for reseeding and mulching all disturbed areas.



Environmental, Health and Safety Solutions.™



January 27, 2020

Ms. Sylvia McLean  
CD Consultant, CDBG-DR  
Cumberland County Community Development  
707 Executive Place  
Fayetteville, North Carolina 28305

RE: Asbestos and Lead Inspection  
4559 Pennystone Dr., Fayetteville, North Carolina  
EI Project No: IHMO299918.00

Dear Ms. Sylvia McLean:

The EI Group, Inc. performed a limited asbestos inspection for the residence located at 4559 Pennystone Dr. in Fayetteville, North Carolina. The inspection was performed by Mr. Fabrizio Simoni (NC Asbestos Inspector #12723) on January 21, 2020 and limited to the residence's accessible interior and exterior.

### Findings/Results

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

- Gypsum Wallboard Joint Compound
- Insulation, Blown-In
- Roofing, Composite Shingle
- texture ceiling

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

### Lead-Based Paint (LBP)

**Of the painted materials tested, none were found above HUD definition of lead-based paint of 1 microgram per square centimetre (>1 mg/cm<sup>3</sup>) of surface or > 0.5% by weight.**

**Lead-Containing Paint**

**Of the painted materials tested, none were found to contain lead in concentration greater than the laboratories minimum reporting limits (MRP) of 10 ug.**

**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.



Mr. Lee Clark  
Senior PM, Industrial Hygiene

Appendix A: Chain of Custody & Laboratory Analytical Data  
Appendix B: Sample Location Maps

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



January 24, 2020

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

**CLIENT PROJECT:** Cumberland County, 4559 Pennystone Dr., Fayetteville, North Carolina 28306, IHMO200018.00  
**CEI LAB CODE:** A200655

Dear Customer:

Enclosed are asbestos analysis results for PLM Bulk samples received at our laboratory on January 23, 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,

A handwritten signature in black ink, appearing to read "Tianbao Bai".

Tianbao Bai, Ph.D., CIH  
Laboratory Director



730 SE Maynard Road • Cary, NC 27511 • 919.481.1413

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**ASBESTOS ANALYTICAL REPORT**  
**By: Polarized Light Microscopy**

Prepared for

**The EI Group**

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CLIENT PROJECT: Cumberland County, 4559 Pennystone Dr., Fayetteville,  
North Carolina 28306, IHMO200018.00

LAB CODE: A200655

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

REPORT DATE: 01/24/20

TOTAL SAMPLES ANALYZED: 9

# SAMPLES >1% ASBESTOS:



CEI

## Asbestos Report Summary

By: POLARIZING LIGHT MICROSCOPY

**PROJECT:** Cumberland County, 4559 Pennystone Dr., Fayetteville, North Carolina 28306,

**LAB CODE:** A200655

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

Client ID	Layer	Lab ID	Color	Sample Description	ASBESTOS %
001A		A10665	White	Texture Ceiling	None Detected
001B		A10666	White	Texture Ceiling	None Detected
001C		A10667	White	Texture Ceiling	None Detected
002A		A10668	Brown	Insulation	None Detected
002B		A10669	Brown	Insulation	None Detected
003A		A10670	White	Wallboard/Joint Compound	None Detected
003B		A10671	White	Wallboard/Joint Compound	None Detected
004A	Layer 1	A10672A	Black,Red	Roofing (shingle)	None Detected
	Layer 2	A10672A	Black,Gray	Roofing (shingle)	None Detected
		A10672B	Black	Roofing (tarpaper)	None Detected
004B	Layer 1	A10673A	Black,Red	Roofing (shingle)	None Detected
	Layer 2	A10673A	Black,Gray	Roofing (shingle)	None Detected
		A10673B	Black	Roofing (tarpaper)	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:** A200655  
**Date Received:** 01-23-20  
**Date Analyzed:** 01-24-20  
**Date Reported:** 01-24-20

**Project:** Cumberland County, 4559 Pennystone Dr., Fayetteville, North Carolina 28306, IHMO200018.00

### ASBESTOS BULK PLM, EPA 600 METHOD

Client ID Lab ID	Lab Description	Lab Attributes	NON-ASBESTOS COMPONENTS		ASBESTOS		
			Fibrous	Non-Fibrous	%		
001A A10665	Texture Ceiling	Homogeneous	70%	Silicates	None Detected		
		White	25%	Calc Carb			
		Non-fibrous Bound	5%	Paint			
001B A10666	Texture Ceiling	Homogeneous	70%	Silicates	None Detected		
		White	25%	Calc Carb			
		Non-fibrous Bound	5%	Paint			
001C A10667	Texture Ceiling	Homogeneous	70%	Silicates	None Detected		
		White	25%	Calc Carb			
		Non-fibrous Bound	5%	Paint			
002A A10668	Insulation	Homogeneous	95%	Cellulose	3%	Binder	None Detected
		Brown			2%	Non-Fibrous Debris	
		Non-fibrous Loosely Bound					
002B A10669	Insulation	Homogeneous	95%	Cellulose	3%	Binder	None Detected
		Brown			2%	Non-Fibrous Debris	
		Non-fibrous Loosely Bound					
003A A10670	Wallboard/Joint Compound	Heterogeneous	10%	Cellulose	70%	Gypsum	None Detected
		White			15%	Silicates	
		Fibrous Bound			5%	Calc Carb	
003B A10671	Wallboard/Joint Compound	Heterogeneous	10%	Cellulose	70%	Gypsum	None Detected
		White			15%	Silicates	
		Fibrous Bound			5%	Calc Carb	

## ASBESTOS BULK ANALYSIS

By: POLARIZING LIGHT MICROSCOPY

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

**Lab Code:** A200655  
**Date Received:** 01-23-20  
**Date Analyzed:** 01-24-20  
**Date Reported:** 01-24-20

**Project:** Cumberland County, 4559 Pennystone Dr., Fayetteville, North Carolina 28306, IHMO200018.00

### ASBESTOS BULK PLM, EPA 600 METHOD

Client ID Lab ID	Lab Description	Lab Attributes	NON-ASBESTOS COMPONENTS				ASBESTOS %
			Fibrous	Fiberglass	Non-Fibrous	Tar	
004A Layer 1 A10672A	Roofing (shingle)	Heterogeneous	15%	Fiberglass	70%	Tar	None Detected
		Black,Red Fibrous Bound			15%	Gravel	
Layer 2 A10672A	Roofing (shingle)	Heterogeneous	15%	Fiberglass	70%	Tar	None Detected
		Black,Gray Fibrous Bound			15%	Gravel	
A10672B	Roofing (tarpaper)	Heterogeneous	60%	Cellulose	40%	Tar	None Detected
		Black Fibrous Bound					
004B Layer 1 A10673A	Roofing (shingle)	Heterogeneous	15%	Fiberglass	70%	Tar	None Detected
		Black,Red Fibrous Bound			15%	Gravel	
Layer 2 A10673A	Roofing (shingle)	Heterogeneous	15%	Fiberglass	70%	Tar	None Detected
		Black,Gray Fibrous Bound			15%	Gravel	
A10673B	Roofing (tarpaper)	Heterogeneous	60%	Cellulose	40%	Tar	None Detected
		Black Fibrous Bound					

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**LEGEND:** Non-Anth = Non-Asbestiform Anthophyllite  
Non-Trem = Non-Asbestiform Tremolite  
Calc Carb = Calcium Carbonate

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

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**REPORTING LIMIT:** <1% by visual estimation

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

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**REGULATORY LIMIT:** >1% by weight

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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.*

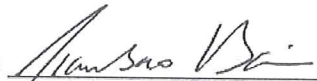
This report relates only to the samples tested or analyzed and may not be reproduced, except in full, without written approval by Eurofins CEI. Eurofins CEI makes no warranty representation regarding the accuracy of client submitted information in preparing and presenting analytical results. Interpretation 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:**

  
Michael Hoxie

**APPROVED BY:**

  
Tianbao Bai, Ph.D., CIH  
Laboratory Director





The EI Group, Inc.  
2101 Gateway Centre Boulevard, Suite 200  
Morrisville, North Carolina 27560



D5EXTO

**Chain of Custody**

Laboratory: Eurofins CEI  
Project: IHMO200018.00  
Site Location: Cumberland County  
4559 Pennystone Dr.  
Fayetteville, North Carolina 28306  
Sampled By: Lee Clark (lclark@ei1.com)  
Reporting By: Kristen Switzer (kswitzer@ei1.com)  
Purpose: NESHAP Compliance (Pre-Renovation/Pre-Demolition)

**Laboratory Notes**

Stop after first positive for each HM

**Samples**

Sample ID	Material	Floor / Section	Space	Analysis
001A	001 - texture ceiling	Unassigned	Garage	EPA Test Method 600/R-93/116 (PLM)
001B	001 - texture ceiling	Unassigned	Kitchen	EPA Test Method 600/R-93/116 (PLM)
001C	001 - texture ceiling	Unassigned	Living Room	EPA Test Method 600/R-93/116 (PLM)
002A	002 - Insulation, Blown-In	Unassigned	Garage	EPA Test Method 600/R-93/116 (PLM)
002B	002 - Insulation, Blown-In	Unassigned	Kitchen	EPA Test Method 600/R-93/116 (PLM)
003A	003 - Gypsum Wallboard Joint Compound	Unassigned	Garage	EPA Test Method 600/R-93/116 (PLM)
003B	003 - Gypsum Wallboard Joint Compound	Unassigned	Garage	EPA Test Method 600/R-93/116 (PLM)

The EI Group, Inc. - Chain of Custody For Cumberland County  
Cumberland County - IHMO200018.00

EUROFINS  
SAMPLE #

1 of 2

A200055

004A	004 - Roofing, Composite Shingle	Unassigned	Roof	EPA Test Method 600/R-93/116 (PLM)
004B	004 - Roofing, Composite Shingle	Unassigned	Roof	EPA Test Method 600/R-93/116 (PLM)

Sampled By	Date	Time

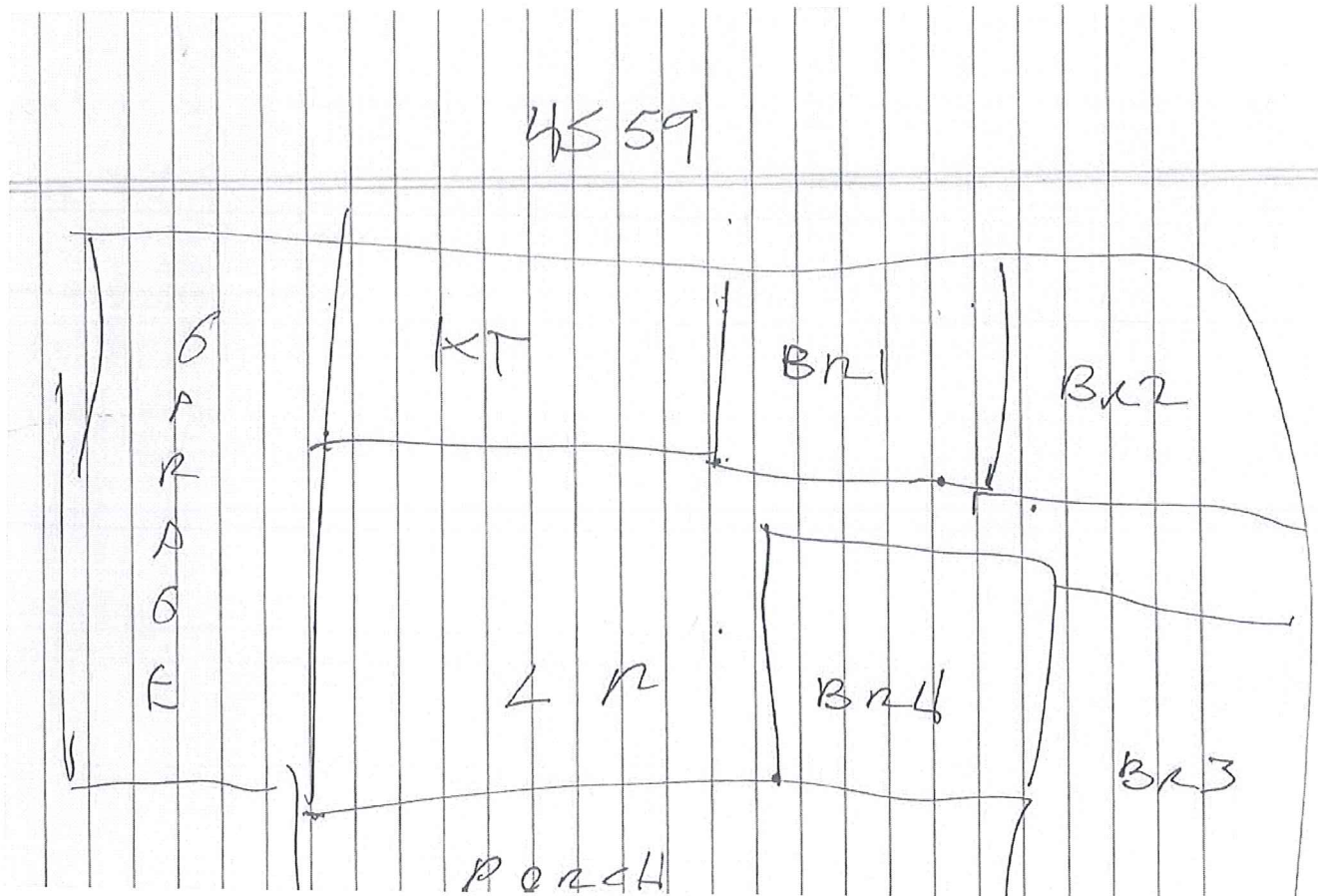
Received By	Date	Time
Relinquished By	Date	Time

Received By	Date	Time
Relinquished By	Date	Time

Received By	Date	Time
Relinquished By	Date	Time

Analysis By	Date	Time

APPENDIX C: LOCATION MAP



CUMBERLAND COUNTY COMMUNITY DEVELOPMENT  
707 EXECUTIVE PLACE  
FAYETTEVILLE, NC 28302

INVITATION TO BID DEMOLITION OF VACANT RESIDENTIAL STRUCTURES  
DISASTER RECOVERY PROGRAMS (DRA/HMGP)  
Number 019 - 001

BID FORM

Project Address: **4555 Pennystone Drive, Fayetteville, NC**      **GROUP 1**

I, the undersigned Contractor, have inspected the above property and understand the extent and character of the work to be completed as described in the Invitation for Bid dated **February 27, 2020**, general specifications and related documents.

I declare that this bid is made without collusion or fraud and I propose to furnish all labor, materials, equipment, and supervision necessary to accomplish the work, as listed in the above mentioned documents, on the property identified above for the sum of:

---

(write out dollar amount)

(\$ \_\_\_\_\_)

I agree to honor this bid for a minimum of thirty (30) days from the date of the bid opening.

CONTRACTOR'S FIRM: \_\_\_\_\_

SIGNATURE OF OWNER OF FIRM: \_\_\_\_\_

DATE: \_\_\_\_\_

## GENERAL SCOPE - 4555 Pennystone Drive, Fayetteville, NC

### *Vacant Residential Building Demolition Specifications*

*Scope:* This item consists of the removal of all vacant residential building and appurtenances in accordance with the proposal, general provisions and the requirements set forth.

#### *Regulatory Requirements –*

- A. Contractor shall obtain all required permits and/or licenses from local authorities. Comply with Laws and Regulations for demolition of structures, protection of adjacent structures, dust control, runoff control, and disposal.
- B. Conform to all applicable procedure when hazardous or contaminated materials are encountered in accordance to risk assessment / abatement report findings provided by certified risk assessors – see attached.
- C. The discovery of hazardous materials shall be communicated to the County's Contracting Agency Project Manager immediately. For each class of hazardous material, the contractor shall provide certification that the building components have been disposed of in accordance with local, state and federal requirement for permanent disposal.
- D. Debris shall be removed to a legal landfill as required by EPA and local regulations.
- E. Should asbestos and/or other hazardous substances be found during inspection, the building demolition and site clean-up will be conducted in a way to be compliance with all federal and state environmental laws and regulations.
- F. This project may require abatement of asbestos containing materials by asbestos abatement contractors licensed to work in the State of North Carolina.

#### *Utilities Location and Verification –*

- G. Contact local Utilities Locator Services prior to any demolition to locate water, gas, electric, cable or phone lines. All utilities must be disconnected from property to be demolished.
- H. The Contractor shall verify whether or not underground storage tanks are present at the project site. If underground tanks are present, the Contractor must notify the proper authorities and County's Contracting Agency Project Manager prior to removal. If septic tank is present, contents must be properly disposed of, the tank crushed in place and back filled in. All work shall comply with local regulatory requirements.

#### *Preparation –*

- I. Provide, erect, and maintain temporary barriers and security devices.
- J. Protect all existing landscape items, appurtenances, and structures which are not scheduled to be demolished. Note that trees over 12" diameter are to remain, unless it is obstructing the actual demolition process. Only debris, trash and manmade materials must be cleared and removed from the site, established vegetation shall remain on the lot.
- K. Prevent movement or settlement of adjacent structures. Provide bracing and shoring as required.

#### *Demolition Requirements –*



- L. Conduct demolition to minimize interference with adjacent structures.
- M. Cease operations immediately if adjacent structures appear to be in danger. Notify the County's Contracting Agency Project Manager.
- N. Spray all work areas with water to minimize dust. Provide hoses, water connections, and water for this purpose.

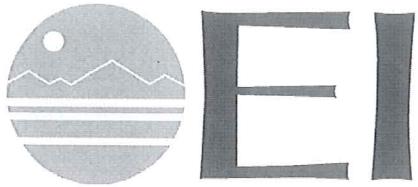
*Demolition –*

- O. Remove entirely: all structures including: footing, foundations, floors, concrete slabs, walls, roof structures, contents, etc. to include concrete or asphalt driveways.
- P. Remove entirely all demolished materials, debris, trash, manmade materials from the site, established vegetation shall remain on the lot.
- Q. Backfilling shall be performed as per the Site Restoration Specifications.
- R. Do not burn or bury any materials on site.**
- S. All refuse removed from the site shall be disposed of at an approved landfill.

Site Restoration Specifications

*Backfilling – Topsoil*

- T. Approved material for backfilling is clean fill dirt. Backfill materials shall be compacted to at least 95% of optimum density.
- U. Install approximately 4" of topsoil at all disturbed areas.
- V. Remove foreign material, weeds, and debris. Also remove any clods, clumps, lumps, boulders, and stones that are not inclusive of the natural state of the site. Grading should be uniform across the lot.



Environmental, Health and Safety Solutions.™



January 27, 2020

Ms. Sylvia McLean  
CD Consultant, CDBG-DR  
Cumberland County Community Development  
707 Executive Place  
Fayetteville, North Carolina 28305

**RE: Asbestos and Lead Inspection**  
4555 Pennystone Dr., Fayetteville, North Carolina  
EI Project No: IHMO200018.00

Dear Ms. Sylvia McLean:

The EI Group, Inc. performed a limited asbestos inspection for the residence located at 4555 Pennystone Dr. in Fayetteville, North Carolina. The inspection was performed by Mr. Fabrizio Simoni (NC Asbestos Inspector #12723) on January 21, 2020 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. Any samples containing asbestos at 2% or less were submitted for analysis by point count using the EPA 600/R-93/116 400 Point Count with Gravimetric Prep. 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.

#### *Lead-Based Paint (LBP)*

Paints which contain certain levels of lead are deemed lead-based paint. Housing and Urban Development (HUD) defines lead paint as having greater than 1 microgram per square centimetre ( $\text{mg}/\text{cm}^2$ ) of surface or 0.5% by weight.

The Occupational Safety and Health Administration (OSHA) does not define lead based paint, but takes a more conservative approach and regulates worker exposure to lead containing paint. OSHA defines lead-containing paint as any coating which contains detectable levels of lead.

#### Findings/Results

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

- Caulk, Door
- Gypsum Wallboard
- Insulation, Blown-In
- Mastic, Stair Tread
- Roofing, Composite Shingle
- Textured Ceiling Material (Popcorn)
- Transite

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

#### *Lead-Based Paint (LBP)*

**Of the painted materials tested, none were found above HUD definition of lead-based paint of 1 microgram per square centimetre ( $>1 \text{ mg}/\text{cm}^2$ ) of surface or > 0.5% by weight.**

#### *Lead-Containing Paint*

**Of the painted materials tested, none were found to contain lead in concentration great then the laboratories minimum reporting limits (MRP) of 10 ug.**

## 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.

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.

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



January 24, 2020

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

**CLIENT PROJECT:** Cumberland County, 4555 Pennystone Dr., Fayetteville, North Carolina 28306, IHMO200018.00  
**CEI LAB CODE:** A200656

Dear Customer:

Enclosed are asbestos analysis results for PLM Bulk samples received at our laboratory on January 23, 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,

A handwritten signature in black ink, appearing to read "Tianbao Bai".

Tianbao Bai, Ph.D., CIH  
Laboratory Director



730 SE Maynard Road • Cary, NC 27511 • 919.481.1413

---

**ASBESTOS ANALYTICAL REPORT**  
**By: Polarized Light Microscopy**

Prepared for

**The EI Group**

---

CLIENT PROJECT: Cumberland County, 4555 Pennystone Dr., Fayetteville,  
North Carolina 28306, IHMO200018.00

LAB CODE: A200656

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

REPORT DATE: 01/24/20

TOTAL SAMPLES ANALYZED: 15

# SAMPLES >1% ASBESTOS:

**PROJECT:** Cumberland County, 4555 Pennystone Dr., Fayetteville, North Carolina 28306,      **LAB CODE:** A200656

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

Client ID	Layer	Lab ID	Color	Sample Description	ASBESTOS %
001A		A10674	Brown	Insulation	None Detected
001B		A10675	Brown	Insulation	None Detected
002A		A10676	White	Textured Ceiling	None Detected
002B		A10677	White	Textured Ceiling	None Detected
002C		A10678	White	Textured Ceiling	None Detected
003A		A10679	White	Wallboard/Mud	None Detected
003B		A10680	White	Wallboard/Mud	None Detected
004A		A10681	Black	Roof Shingle	None Detected
004B		A10682	Black	Roof Shingle	None Detected
005A		A10683	White	Caulking	None Detected
005B		A10684	White	Caulking	None Detected
006A		A10685	Tan	Mastic	None Detected
006B		A10686	Tan	Mastic	None Detected
007A		A10687	Gray	Transite	None Detected
007B		A10688	Gray	Transite	None Detected



**ASBESTOS BULK ANALYSIS**

By: POLARIZING LIGHT MICROSCOPY

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

**Lab Code:** A200656  
**Date Received:** 01-23-20  
**Date Analyzed:** 01-24-20  
**Date Reported:** 01-24-20

**Project:** Cumberland County, 4555 Pennystone Dr., Fayetteville, North Carolina 28306, IHMO200018.00

**ASBESTOS BULK PLM, EPA 600 METHOD**

Client ID Lab ID	Lab Description	Lab Attributes	NON-ASBESTOS COMPONENTS		ASBESTOS %
			Fibrous	Non-Fibrous	
<b>001A</b> A10674	Insulation	Heterogeneous Brown Fibrous Loose	100%	Cellulose	None Detected
<b>001B</b> A10675	Insulation	Heterogeneous Brown Fibrous Loose	100%	Cellulose	None Detected
<b>002A</b> A10676	Textured Ceiling	Heterogeneous White Non-fibrous Bound	95%	Calc Carb 5% Silicates	None Detected
<b>002B</b> A10677	Textured Ceiling	Heterogeneous White Non-fibrous Bound	95%	Calc Carb 5% Silicates	None Detected
<b>002C</b> A10678	Textured Ceiling	Heterogeneous White Non-fibrous Bound	95%	Calc Carb 5% Silicates	None Detected
<b>003A</b> A10679	Wallboard/Mud	Heterogeneous White Fibrous Bound	20%	Cellulose 70% Gypsum 5% Calc Carb 5% Paint	None Detected
<b>003B</b> A10680	Wallboard/Mud	Heterogeneous White Fibrous Bound	20%	Cellulose 70% Gypsum 5% Calc Carb 5% Paint	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:** A200656  
**Date Received:** 01-23-20  
**Date Analyzed:** 01-24-20  
**Date Reported:** 01-24-20

**Project:** Cumberland County, 4555 Pennystone Dr., Fayetteville, North Carolina 28306, IHMO200018.00

### ASBESTOS BULK PLM, EPA 600 METHOD

Client ID Lab ID	Lab Description	Lab Attributes	NON-ASBESTOS COMPONENTS				ASBESTOS %
			Fibrous		Non-Fibrous		
004A A10681	Roof Shingle	Heterogeneous	30%	Fiberglass	50%	Tar	None Detected
		Black Fibrous Bound			20%	Gravel	
004B A10682	Roof Shingle	Heterogeneous	30%	Fiberglass	50%	Tar	None Detected
		Black Fibrous Bound			20%	Gravel	
005A A10683	Caulking	Heterogeneous			85%	Caulk	None Detected
		White Non-fibrous Bound			10%	Silicates	
005B A10684	Caulking	Heterogeneous			85%	Caulk	None Detected
		White Non-fibrous Bound			10%	Silicates	
006A A10685	Mastic	Homogeneous			80%	Mastic	None Detected
		Tan Non-fibrous Bound			20%	Calc Carb	
006B A10686	Mastic	Homogeneous			80%	Mastic	None Detected
		Tan Non-fibrous Bound			20%	Calc Carb	
007A A10687	Transite	Homogeneous	30%	Cellulose	70%	Binder	None Detected
		Gray Fibrous Tightly Bound					

**ASBESTOS BULK ANALYSIS**

By: POLARIZING LIGHT MICROSCOPY

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

**Lab Code:** A200656  
**Date Received:** 01-23-20  
**Date Analyzed:** 01-24-20  
**Date Reported:** 01-24-20

**Project:** Cumberland County, 4555 Pennystone Dr., Fayetteville, North Carolina 28306, IHMO200018.00

**ASBESTOS BULK PLM, EPA 600 METHOD**

Client ID Lab ID	Lab Description	Lab Attributes	NON-ASBESTOS COMPONENTS		ASBESTOS %
			Fibrous	Non-Fibrous	
007B A10688	Transite	Homogeneous Gray Fibrous Tightly Bound	50% Cellulose	45% Binder 5% 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

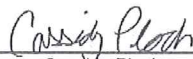
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Due to the limitations of the EPA 600 method, nonfriable organically bound materials (NOBs) such as vinyl floor tiles can be difficult to analyze via polarized light microscopy (PLM). EPA recommends that all NOBs analyzed by PLM, and found not to contain 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.*

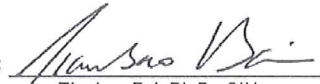
This report relates only to the samples tested or analyzed and may not be reproduced, except in full, without written approval by Eurofins CEI. Eurofins CEI makes no warranty representation regarding the accuracy of client submitted information in preparing and presenting analytical results. Interpretation 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:**

  
Cassidy Ploch

**APPROVED BY:**

  
Tianbao Bai, Ph.D., CIH  
Laboratory Director





The EI Group, Inc.  
2101 Gateway Centre Boulevard, Suite 200  
Morrisville, North Carolina 27560

A288050  
A10074-A10088  
MD26VE

**Chain of Custody**

Laboratory: Eurofins CEI  
Project: IHMO200018.00  
Site Location: Cumberland County  
4555 Pennystone Dr.  
Fayetteville, North Carolina 28306  
Sampled By: Lee Clark (lclark@ei1.com)  
Reporting By: Kristen Switzer (kswitzer@ei1.com)  
Purpose: NESHAP Compliance (Pre-Renovation/Pre-Demolition)

**Laboratory Notes**

Stop after first positive for each HM

**Turn-Around Time Request**

Standard

**Samples**

Sample ID	Material	Floor / Section	Space	Analysis
001A	001 - Insulation, Blown-In	Unassigned	Garage	EPA Test Method 600/R-93/116 (PLM)
001B	001 - Insulation, Blown-In	Unassigned	Room 6	EPA Test Method 600/R-93/116 (PLM)
002A	002 - Textured Ceiling Material (Popcorn)	Unassigned	Garage	EPA Test Method 600/R-93/116 (PLM)
002B	002 - Textured Ceiling Material (Popcorn)	Unassigned	Garage	EPA Test Method 600/R-93/116 (PLM)
002C	002 - Textured Ceiling Material (Popcorn)	Unassigned	Room 6	EPA Test Method 600/R-93/116 (PLM)
003A	003 - Gypsum Wallboard	Unassigned	Garage	EPA Test Method 600/R-93/116 (PLM)
003B	003 - Gypsum Wallboard	Unassigned	Garage	EPA Test Method 600/R-93/116 (PLM)

The EI Group, Inc. - Chain of Custody For Cumberland County  
Cumberland County - IHMO200018.00

EUROFINS CEI  
SAMPLES ACCEPTED

4200050

004A	004 - Roofing, Composite Shingle	Unassigned	Roof	EPA Test Method 600/R-93/116 (PLM)
004B	004 - Roofing, Composite Shingle	Unassigned	Roof	EPA Test Method 600/R-93/116 (PLM)
005A	005 - Caulk, Door	Unassigned	Garage	EPA Test Method 600/R-93/116 (PLM)
005B	005 - Caulk, Door	Unassigned	Garage	EPA Test Method 600/R-93/116 (PLM)
006A	006 - Mastic, Stair Tread	Unassigned	Garage	EPA Test Method 600/R-93/116 (PLM)
006B	006 - Mastic, Stair Tread	Unassigned	Garage	EPA Test Method 600/R-93/116 (PLM)
007A	007 - Transite	Unassigned	Exterior	EPA Test Method 600/R-93/116 (PLM)
007B	007 - Transite	Unassigned	Exterior	EPA Test Method 600/R-93/116 (PLM)

Sampled By	Date	Time
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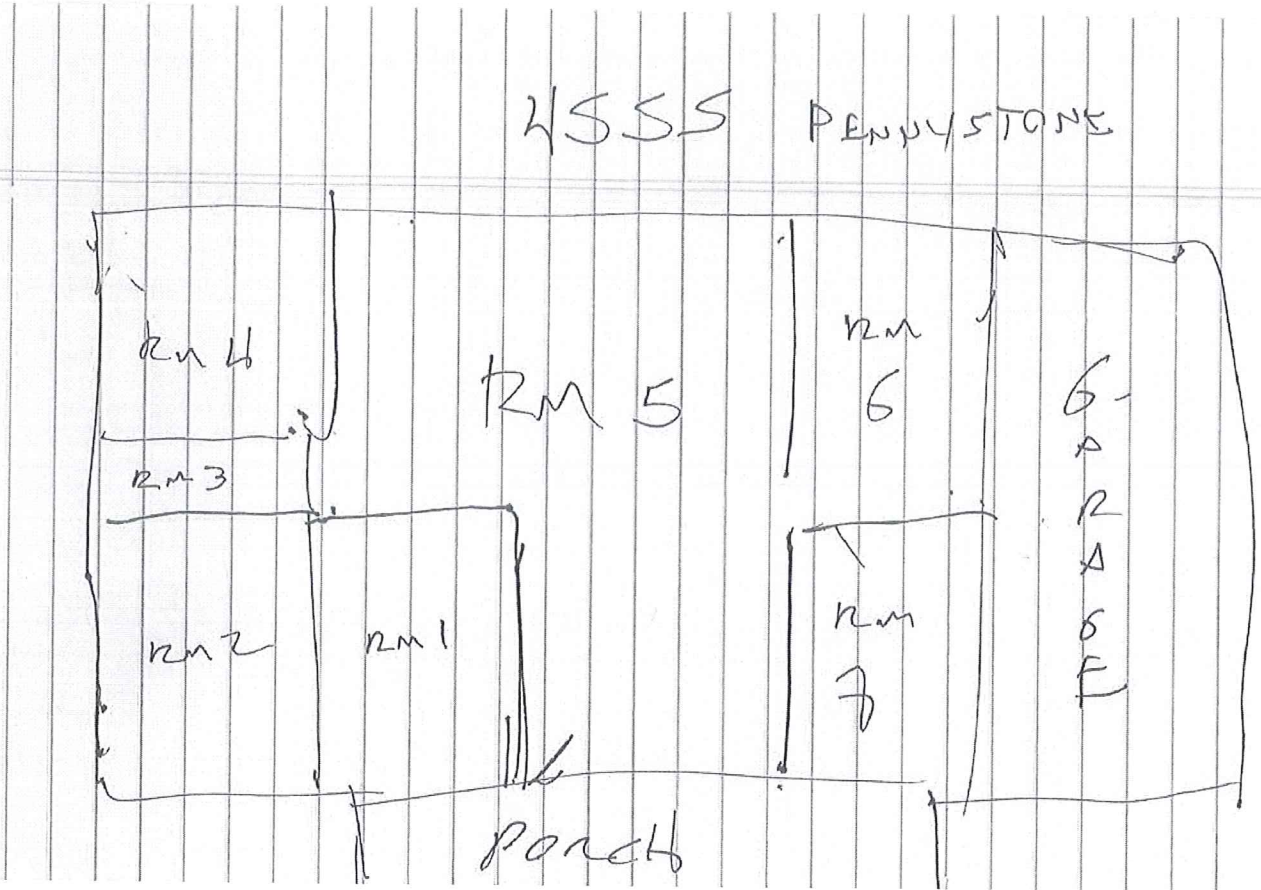
Received By	Date	Time
Relinquished By	Date	Time

Received By	Date	Time
Relinquished By	Date	Time

Received By	Date	Time
Relinquished By	Date	Time

Analysis By	Date	Time
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APPENDIX C: SAMPLE LOCATION MAPS



CUMBERLAND COUNTY COMMUNITY DEVELOPMENT  
707 EXECUTIVE PLACE  
FAYETTEVILLE, NC 28302

INVITATION TO BID DEMOLITION OF VACANT RESIDENTIAL STRUCTURES  
DISASTER RECOVERY PROGRAMS (DRA/HMGP)  
Number 019 – 001-2

BID FORM

Project Address: **4535 Pennystone Drive, Fayetteville, NC**      **GROUP 1**

I, the undersigned Contractor, have inspected the above property and understand the extent and character of the work to be completed as described in the Invitation for Bid dated **February 27, 2020**, general specifications and related documents.

I declare that this bid is made without collusion or fraud and I propose to furnish all labor, materials, equipment, and supervision necessary to accomplish the work, as listed in the above mentioned documents, on the property identified above for the sum of:

---

(write out dollar amount)

(\$ \_\_\_\_\_ )

I agree to honor this bid for a minimum of thirty (30) days from the date of the bid opening.

CONTRACTOR'S FIRM: \_\_\_\_\_

SIGNATURE OF OWNER OF FIRM: \_\_\_\_\_

DATE: \_\_\_\_\_



## GENERAL SCOPE - 4535 Pennystone Drive, Fayetteville, NC

### *Vacant Residential Building Demolition Specifications*

*Scope:* This item consists of the removal of all vacant residential building and appurtenances in accordance with the proposal, general provisions and the requirements set forth.

#### *Regulatory Requirements –*

- A. Contractor shall obtain all required permits and/or licenses from local authorities. Comply with Laws and Regulations for demolition of structures, protection of adjacent structures, dust control, runoff control, and disposal.
- B. Conform to all applicable procedure when hazardous or contaminated materials are encountered in accordance to risk assessment / abatement report findings provided by certified risk assessors – see attached.
- C. The discovery of hazardous materials shall be communicated to the County’s Contracting Agency Project Manager immediately. For each class of hazardous material, the contractor shall provide certification that the building components have been disposed of in accordance with local, state and federal requirement for permanent disposal.
- D. Debris shall be removed to a legal landfill as required by EPA and local regulations.
- E. Should asbestos and/or other hazardous substances be found during inspection, the building demolition and site clean-up will be conducted in a way to be compliance with all federal and state environmental laws and regulations.
- F. This project may require abatement of asbestos containing materials by asbestos abatement contractors licensed to work in the State of North Carolina.

#### *Utilities Location and Verification –*

- G. Contact local Utilities Locator Services prior to any demolition to locate water, gas, electric, cable or phone lines. All utilities must be disconnected from property to be demolished.
- H. The Contractor shall verify whether or not underground storage tanks are present at the project site. If underground tanks are present, the Contractor must notify the proper authorities and County’s Contracting Agency Project Manager prior to removal. If septic tank is present, contents must be properly disposed of, the tank crushed in place and back filled in. All work shall comply with local regulatory requirements.

#### *Preparation –*

- I. Provide, erect, and maintain temporary barriers and security devices.
- J. Protect all existing landscape items, appurtenances, and structures which are not scheduled to be demolished. Note that trees over 12” diameter are to remain, unless it is obstructing the actual demolition process. Only debris, trash and manmade materials must be cleared and removed from the site, established vegetation shall remain on the lot.
- K. Prevent movement or settlement of adjacent structures. Provide bracing and shoring as required.

#### *Demolition Requirements –*

- L. Conduct demolition to minimize interference with adjacent structures.
- M. Cease operations immediately if adjacent structures appear to be in danger. Notify the County’s Contracting Agency Project Manager.

- N. Spray all work areas with water to minimize dust. Provide hoses, water connections, and water for this purpose.

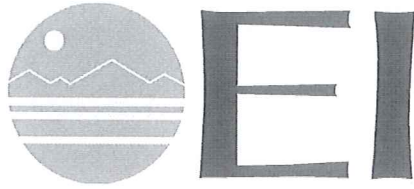
*Demolition –*

- O. Remove entirely: all structures including: footing, foundations, floors, concrete slabs, walls, roof structures, contents, etc. to include concrete or asphalt driveways.
- P. Remove entirely all demolished materials, debris, trash, manmade materials from the site, established vegetation shall remain on the lot.
- Q. Backfilling shall be performed as per the Site Restoration Specifications.
- R. Do not burn or bury any materials on site.**
- S. All refuse removed from the site shall be disposed of at an approved landfill.

Site Restoration Specifications

*Backfilling – Topsoil*

- T. Approved material for backfilling is clean fill dirt. Backfill materials shall be compacted to at least 95% of optimum density.
- U. Install approximately 4" of topsoil at all disturbed areas.
- V. Remove foreign material, weeds, and debris. Also remove any clods, clumps, lumps, boulders, and stones that are not inclusive of the natural state of the site. Grading should be uniform across the lot.



Environmental, Health and Safety Solutions.™



January 27, 2020

Ms. Sylvia McLean  
CD Consultant, CDBG-DR  
Cumberland County Community Development  
707 Executive Place  
Fayetteville, North Carolina 28305

RE: Asbestos and Lead Inspection  
4535 Pennystone Dr., Fayetteville, North Carolina  
EI Project No: IHMO200018.00

Dear Ms. Sylvia McLean:

The EI Group, Inc. performed a limited asbestos inspection for the residence located at 4535 Pennystone Dr. in Fayetteville, North Carolina. The inspection was performed by Mr. Fabrizio Simoni (NC Asbestos Inspector #12723) on January 21, 2020 and limited to the residence's accessible interior and exterior.

### Findings/Results

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

- Caulk, Door
- Caulk, Window
- Gypsum Wallboard Joint Compound
- Insulation, Blown-In
- Roofing, Composite Shingle

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

### Lead-Based Paint (LBP)

**Of the painted materials tested, none were found above HUD definition of lead-based paint of 1 microgram per square centimetre (>1 mg/cm<sup>2</sup>) of surface or > 0.5% by weight.**

**Lead-Containing Paint**

**Of the painted materials tested, none were found to contain lead in concentration greater than the laboratories minimum reporting limits (MRP) of 10 ug.**

**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.

Mr. Lee Clark  
Senior PM, Industrial Hygiene

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

January 24, 2020

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

**CLIENT PROJECT:** Cumberland County, 4535 Pennystone Dr., Fayetteville, North Carolina 28306, IHMO200018.00  
**CEI LAB CODE:** A200658

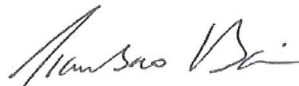
Dear Customer:

Enclosed are asbestos analysis results for PLM Bulk samples received at our laboratory on January 23, 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



---

730 SE Maynard Road • Cary, NC 27511 • 919.481.1413

---

**ASBESTOS ANALYTICAL REPORT**  
**By: Polarized Light Microscopy**

Prepared for  
**The EI Group**

---

CLIENT PROJECT: Cumberland County, 4535 Pennystone Dr., Fayetteville,  
North Carolina 28306, IHMO200018.00

LAB CODE: A200658

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

REPORT DATE: 01/24/20

TOTAL SAMPLES ANALYZED: 8

# SAMPLES >1% ASBESTOS:



CEI

## Asbestos Report Summary

By: POLARIZING LIGHT MICROSCOPY

**PROJECT:** Cumberland County, 4535 Pennystone Dr., Fayetteville, North Carolina 28306, **LAB CODE:** A200658

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

Client ID	Layer	Lab ID	Color	Sample Description	ASBESTOS %
001A		A10695	White	Gypsum Board/Joint Compound	None Detected
001B		A10696	White	Gypsum Board/Joint Compound	None Detected
002A		A10697	Brown	Insulation	None Detected
002B		A10698	Brown	Insulation	None Detected
003A		A10699	Off-white	Door Caulk	None Detected
003B		A10700	Off-white	Door Caulk	None Detected
004A		A10701	Black,Gray	Composite Shingle	None Detected
004B		A10702	Black,Gray	Composite 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:** A200658  
**Date Received:** 01-23-20  
**Date Analyzed:** 01-24-20  
**Date Reported:** 01-24-20

**Project:** Cumberland County, 4535 Pennystone Dr., Fayetteville, North Carolina 28306, IHMO200018.00

**ASBESTOS BULK PLM, EPA 600 METHOD**

Client ID Lab ID	Lab Description	Lab Attributes	NON-ASBESTOS COMPONENTS				ASBESTOS %
			Fibrous		Non-Fibrous		
<b>001A</b> A10695	Gypsum Board/Joint Compound	Heterogeneous White Fibrous Bound	15%	Cellulose	80%	Gypsum 5% Calc Carb	None Detected
<b>001B</b> A10696	Gypsum Board/Joint Compound	Heterogeneous White Fibrous Bound	15%	Cellulose	80%	Gypsum 5% Calc Carb	None Detected
<b>002A</b> A10697	Insulation	Homogeneous Brown Fibrous Loose	95%	Cellulose	5%	Binder	None Detected
<b>002B</b> A10698	Insulation	Homogeneous Brown Fibrous Loose	95%	Cellulose	5%	Binder	None Detected
<b>003A</b> A10699	Door Caulk	Homogeneous Off-white Non-fibrous Bound			100%	Caulk	None Detected
<b>003B</b> A10700	Door Caulk	Homogeneous Off-white Non-fibrous Bound			100%	Caulk	None Detected
<b>004A</b> A10701	Composite Shingle	Heterogeneous Black, Gray Fibrous Bound	45%	Fiberglass	40%	Tar 15% Gravel	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:** A200658  
**Date Received:** 01-23-20  
**Date Analyzed:** 01-24-20  
**Date Reported:** 01-24-20

**Project:** Cumberland County, 4535 Pennystone Dr., Fayetteville, North Carolina 28306, IHMO200018.00

### ASBESTOS BULK PLM, EPA 600 METHOD

Client ID Lab ID	Lab Description	Lab Attributes	NON-ASBESTOS COMPONENTS			ASBESTOS %
			Fibrous	Non-Fibrous		
004B A10702	Composite Shingle	Heterogeneous Black, Gray Fibrous Bound	45% Fiberglass	40% Tar	15% 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

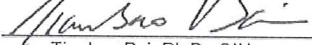
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Due to the limitations of the EPA 600 method, nonfriable organically bound materials (NOBs) such as vinyl floor tiles can be difficult to analyze via polarized light microscopy (PLM). EPA recommends that all NOBs analyzed by PLM, and found not to contain 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:**   
McLane Brown

**APPROVED BY:**   
Tianbao Bai, Ph.D., CIH  
Laboratory Director





The EI Group, Inc.  
 2101 Gateway Centre Boulevard, Suite 200  
 Morrisville, North Carolina 27560



**Chain of Custody**

**Laboratory:** Eurofins CEI  
**Project:** IHMO200018.00  
**Site Location:** Cumberland County  
 4535 Pennystone Dr.  
 Fayetteville, North Carolina 28306  
**Sampled By:** Lee Clark (lclark@ei1.com)  
**Reporting By:** Kristen Switzer (kswitzer@ei1.com)  
**Purpose:** NESHAP Compliance (Pre-Renovation/Pre-Demolition)

**Laboratory Notes**

Stop after first positive for each HM

**Turn-Around Time Request**

Standard

**Samples**

Sample ID	Material	Floor / Section	Space	Analysis
001A	001 - Gypsum Wallboard Joint Compound	Unassigned	room 4	EPA Test Method 600/R-93/116 (PLM)
001B	001 - Gypsum Wallboard Joint Compound	Unassigned	room 4	EPA Test Method 600/R-93/116 (PLM)
002A	002 - Insulation, Blown-In	Unassigned	room 4	EPA Test Method 600/R-93/116 (PLM)
002B	002 - Insulation, Blown-In	Unassigned	room 4	EPA Test Method 600/R-93/116 (PLM)
003A	003 - Caulk, Door	Unassigned	Exterior	EPA Test Method 600/R-93/116 (PLM)
003B	004 - Caulk, Window	Unassigned	Exterior	EPA Test Method 600/R-93/116 (PLM)
004A	005 - Roofing, Composite Shingle	Unassigned	Exterior	EPA Test Method 600/R-93/116 (PLM)

The EI Group, Inc. - Chain of Custody For Cumberland County  
 Cumberland County - IHMO200018.00

EUROFINS CEI  
 SAMPLES ACCEPTED

A200058

004B	005 - Roofing, Composite Shingle	Unassigned	Exterior	EPA Test Method 600/R-93/116 (PLM)
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Sampled By	Date	Time
------------	------	------

Received By	Date	Time
Relinquished By	Date	Time

CO 1/23 8:10

Received By	Date	Time
Relinquished By	Date	Time

Received By	Date	Time
Relinquished By	Date	Time

Analysis By	Date	Time
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APPENDIX C: MAP



CUMBERLAND COUNTY COMMUNITY DEVELOPMENT  
707 EXECUTIVE PLACE  
FAYETTEVILLE, NC 28302

INVITATION TO BID DEMOLITION OF VACANT RESIDENTIAL STRUCTURES  
DISASTER RECOVERY PROGRAMS (DRA/HMGP)  
Number 019 – 001-2

BID FORM

Project Address: **4348 Cameron Road, Hope Mills, NC GROUP 2**

I, the undersigned Contractor, have inspected the above property and understand the extent and character of the work to be completed as described in the Invitation for Bid dated **February 27, 2020**, general specifications and related documents.

I declare that this bid is made without collusion or fraud and I propose to furnish all labor, materials, equipment, and supervision necessary to accomplish the work, as listed in the above mentioned documents, on the property identified above for the sum of:

---

(write out dollar amount)

(\$ \_\_\_\_\_)

I agree to honor this bid for a minimum of thirty (30) days from the date of the bid opening.

CONTRACTOR'S FIRM: \_\_\_\_\_

SIGNATURE OF OWNER OF FIRM: \_\_\_\_\_

DATE: \_\_\_\_\_

## GENERAL SCOPE - 4348 Cameron Road, Hope Mills, NC

### *Vacant Residential Building Demolition Specifications*

*Scope:* This item consists of the removal of all vacant residential building and appurtenances in accordance with the proposal, general provisions and the requirements set forth.

#### *Regulatory Requirements –*

- A. Contractor shall obtain all required permits and/or licenses from local authorities. Comply with Laws and Regulations for demolition of structures, protection of adjacent structures, dust control, runoff control, and disposal.
- B. Conform to all applicable procedure when hazardous or contaminated materials are encountered in accordance to risk assessment / abatement report findings provided by certified risk assessors – see attached.
- C. The discovery of hazardous materials shall be communicated to the County’s Contracting Agency Project Manager immediately. For each class of hazardous material, the contractor shall provide certification that the building components have been disposed of in accordance with local, state and federal requirement for permanent disposal.
- D. Debris shall be removed to a legal landfill as required by EPA and local regulations.
- E. Should asbestos and/or other hazardous substances be found during inspection, the building demolition and site clean-up will be conducted in a way to be compliance with all federal and state environmental laws and regulations.
- F. This project may require abatement of asbestos containing materials by asbestos abatement contractors licensed to work in the State of North Carolina.

#### *Utilities Location and Verification –*

- G. Contact local Utilities Locator Services prior to any demolition to locate water, gas, electric, cable or phone lines. All utilities must be disconnected from property to be demolished.
- H. The Contractor shall verify whether or not underground storage tanks are present at the project site. If underground tanks are present, the Contractor must notify the proper authorities and County’s Contracting Agency Project Manager prior to removal. If septic tank is present, contents must be properly disposed of, the tank crushed in place and back filled in. All work shall comply with local regulatory requirements.

#### *Preparation –*

- I. Provide, erect, and maintain temporary barriers and security devices.
- J. Protect all existing landscape items, appurtenances, and structures which are not scheduled to be demolished. Note that trees over 12” diameter are to remain, unless it is obstructing the actual demolition process. Only debris, trash and manmade materials must be cleared and removed from the site, established vegetation shall remain on the lot.
- K. Prevent movement or settlement of adjacent structures. Provide bracing and shoring as required.

#### *Demolition Requirements –*

- L. Conduct demolition to minimize interference with adjacent structures.
- M. Cease operations immediately if adjacent structures appear to be in danger. Notify the County’s Contracting Agency Project Manager.



- N. Spray all work areas with water to minimize dust. Provide hoses, water connections, and water for this purpose.

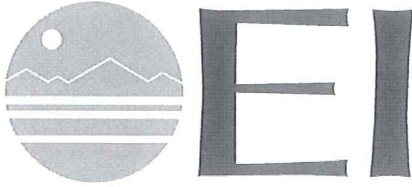
*Demolition –*

- O. Remove entirely: all structures including: footing, foundations, floors, concrete slabs, walls, roof structures, contents, etc. to include concrete or asphalt driveways.
- P. Remove entirely all demolished materials, debris, trash, manmade materials from the site, established vegetation shall remain on the lot.
- Q. Backfilling shall be performed as per the Site Restoration Specifications.
- R. Do not burn or bury any materials on site.**
- S. All refuse removed from the site shall be disposed of at an approved landfill.

Site Restoration Specifications

*Backfilling – Topsoil*

- T. Approved material for backfilling is clean fill dirt. Backfill materials shall be compacted to at least 95% of optimum density.
- U. Install approximately 4" of topsoil at all disturbed areas.
- V. Remove foreign material, weeds, and debris. Also remove any clods, clumps, lumps, boulders, and stones that are not inclusive of the natural state of the site. Grading should be uniform across the lot.



Environmental, Health and Safety Solutions.™



January 27, 2020

Ms. Sylvia McLean  
CD Consultant, CDBG-DR  
Cumberland County Community Development  
707 Executive Place  
Fayetteville, North Carolina 28305

RE: Asbestos and Lead Inspection  
4348 Cameron Rd., Hope Mills, North Carolina  
EI Project No: IHMO200018.00

Dear Ms. Sylvia McLean:

The EI Group, Inc. performed a limited asbestos inspection for the residence located at 4348 Cameron Rd. in Hope Mills, North Carolina. The inspection was performed by Mr. Fabrizio Simoni (NC Asbestos Inspector #12723) on January 21, 2020 and limited to the residence's accessible interior and exterior.

### Findings/Results

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

- Gypsum Wallboard
- Roofing, Composite Shingle
- Sealant, Window Pane Glazing
- Textured Ceiling Material (Popcorn)

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

### Lead-Based Paint (LBP)

Of the painted materials tested, none were found above HUD definition of lead-based paint of 1 microgram per square centimetre ( $>1 \text{ mg}/\text{cm}^2$ ) of surface or  $> 0.5\%$  by weight.

Lead-Containing Paint

Of the painted materials tested, two were found to contain lead in concentration great then the laboratories minimum reporting limits (MRP) of 10 ug.

- Front Porch (White)
- Front Porch (Grey)

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.



Mr. Lee Clark  
Senior PM, Industrial Hygiene

- 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

January 24, 2020

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

**CLIENT PROJECT:** Cumberland County, 4348 Cameron Rd., Hope Mills, North Carolina 28348, IHMO200018.00  
**CEI LAB CODE:** A200653

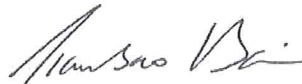
Dear Customer:

Enclosed are asbestos analysis results for PLM Bulk samples received at our laboratory on January 23, 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



---

730 SE Maynard Road • Cary, NC 27511 • 919.481.1413

---

**ASBESTOS ANALYTICAL REPORT**  
**By: Polarized Light Microscopy**

Prepared for  
**The EI Group**

---

CLIENT PROJECT: Cumberland County, 4348 Cameron Rd., Hope Mills,  
North Carolina 28348, IHMO200018.00

LAB CODE: A200653

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

REPORT DATE: 01/24/20

TOTAL SAMPLES ANALYZED: 8

# SAMPLES >1% ASBESTOS:



CEI

## Asbestos Report Summary

By: POLARIZING LIGHT MICROSCOPY

PROJECT: Cumberland County, 4348 Cameron Rd., LAB CODE: A200653  
Hope Mills, North Carolina 28348, IHMO200018.00

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

Client ID	Layer	Lab ID	Color	Sample Description	ASBESTOS %
001A		A10647	White,Gray	Gypsum Wallboard	None Detected
001B		A10648	White,Gray	Gypsum Wallboard	None Detected
002A		A10649	White,Off-white	Textured Ceiling Material (popcorn)	None Detected
002B		A10650	White,Off-white	Textured Ceiling Material (popcorn)	None Detected
003A	Layer 1	A10651	Black	Composite Shingle	None Detected
	Layer 2	A10651	Black	Tarpaper	None Detected
003B	Layer 1	A10652	Black	Composite Shingle	None Detected
	Layer 2	A10652	Black	Tarpaper	None Detected
004A		A10653	White,Off-white	Window Pane Glazing	None Detected
004B		A10654	White,Off-white	Window Pane Glazing	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:** A200653  
**Date Received:** 01-23-20  
**Date Analyzed:** 01-24-20  
**Date Reported:** 01-24-20

**Project:** Cumberland County, 4348 Cameron Rd., Hope Mills, North Carolina 28348, IHMO200018.00

**ASBESTOS BULK PLM, EPA 600 METHOD**

Client ID Lab ID	Lab Description	Lab Attributes	NON-ASBESTOS COMPONENTS			ASBESTOS %	
			Fibrous	Non-Fibrous			
001A A10647	Gypsum Wallboard	Heterogeneous White, Gray Fibrous Bound	15%	Cellulose	85%	Gypsum	None Detected
001B A10648	Gypsum Wallboard	Heterogeneous White, Gray Fibrous Bound	15%	Cellulose	85%	Gypsum	None Detected
002A A10649	Textured Ceiling Material (popcorn)	Heterogeneous White, Off-white Non-fibrous Bound	<1%	Cellulose	30%	Foam 65% Binder 5% Paint	None Detected
002B A10650	Textured Ceiling Material (popcorn)	Heterogeneous White, Off-white Non-fibrous Bound	<1%	Cellulose	30%	Foam 65% Binder 5% Paint	None Detected
003A Layer 1 A10651	Composite Shingle	Heterogeneous Black Fibrous Bound	45%	Fiberglass	40%	Tar 15% Gravel	None Detected
Layer 2 A10651	Tarpaper	Heterogeneous Black Fibrous Bound	80%	Cellulose	20%	Tar	None Detected
003B Layer 1 A10652	Composite Shingle	Heterogeneous Black Fibrous Bound	45%	Fiberglass	40%	Tar 15% Gravel	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:** A200653  
**Date Received:** 01-23-20  
**Date Analyzed:** 01-24-20  
**Date Reported:** 01-24-20

**Project:** Cumberland County, 4348 Cameron Rd., Hope Mills, North Carolina 28348, IHMO200018.00

**ASBESTOS BULK PLM, EPA 600 METHOD**

Client ID Lab ID	Lab Description	Lab Attributes	NON-ASBESTOS COMPONENTS				ASBESTOS %
			Fibrous		Non-Fibrous		
Layer 2 A10652	Tarpaper	Heterogeneous Black Fibrous Bound	80%	Cellulose	20%	Tar	None Detected
<b>004A</b> A10653	Window Pane Glazing	Heterogeneous White, Off-white Non-fibrous Bound	<1%	Talc	97%	Binder Paint	None Detected
<b>004B</b> A10654	Window Pane Glazing	Heterogeneous White, Off-white Non-fibrous Bound	<1%	Talc	97%	Binder 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

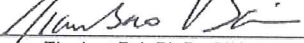
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Due to the limitations of the EPA 600 method, nonfriable organically bound materials (NOBs) such as vinyl floor tiles can be difficult to analyze via polarized light microscopy (PLM). EPA recommends that all NOBs analyzed by PLM, and found not to contain 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:**   
McLane Brown

**APPROVED BY:**   
Tianbao Bai, Ph.D., CIH  
Laboratory Director





The EI Group, Inc.  
 2101 Gateway Centre Boulevard, Suite 200  
 Monksville, North Carolina 27560

EUROFINS CEI INC.  
 SAMPLE ACCEPTED



3GVH5R

**Chain of Custody**

Laboratory: Eurofins CEI  
 Project: IHMO200018.00  
 Site Location: Cumberland County  
 4348 Cameron Rd.  
 Hope Mills, North Carolina 28348  
 Sampled By: Lee Clark (lclark@ei1.com)  
 Reporting By: Kristen Switzer (kswitzer@ei1.com)  
 Purpose: NESHAP Compliance (Pre-Renovation/Pre-Demolition)

**Laboratory Notes**

Stop after first positive for each HM

**Turn-Around Time Request**

Standard

**Samples**

Sample ID	Material	Floor / Section	Space	Analysis
001A	001 - Gypsum Wallboard	Unassigned	Kitchen	EPA Test Method 600/R-93/116 (PLM)
001B	001 - Gypsum Wallboard	Unassigned	Room 7	EPA Test Method 600/R-93/116 (PLM)
002A	002 - Textured Ceiling Material (Popcorn)	Unassigned	Room 9	EPA Test Method 600/R-93/116 (PLM)
002B	002 - Textured Ceiling Material (Popcorn)	Unassigned	Room 9	EPA Test Method 600/R-93/116 (PLM)
003A	003 - Roofing, Composite Shingle	Unassigned	Roof	EPA Test Method 600/R-93/116 (PLM)
003B	003 - Roofing, Composite Shingle	Unassigned	Roof	EPA Test Method 600/R-93/116 (PLM)
004A	004 - Sealant, Window Pane Glazing	Unassigned	Exterior	EPA Test Method 600/R-93/116 (PLM)

A200053

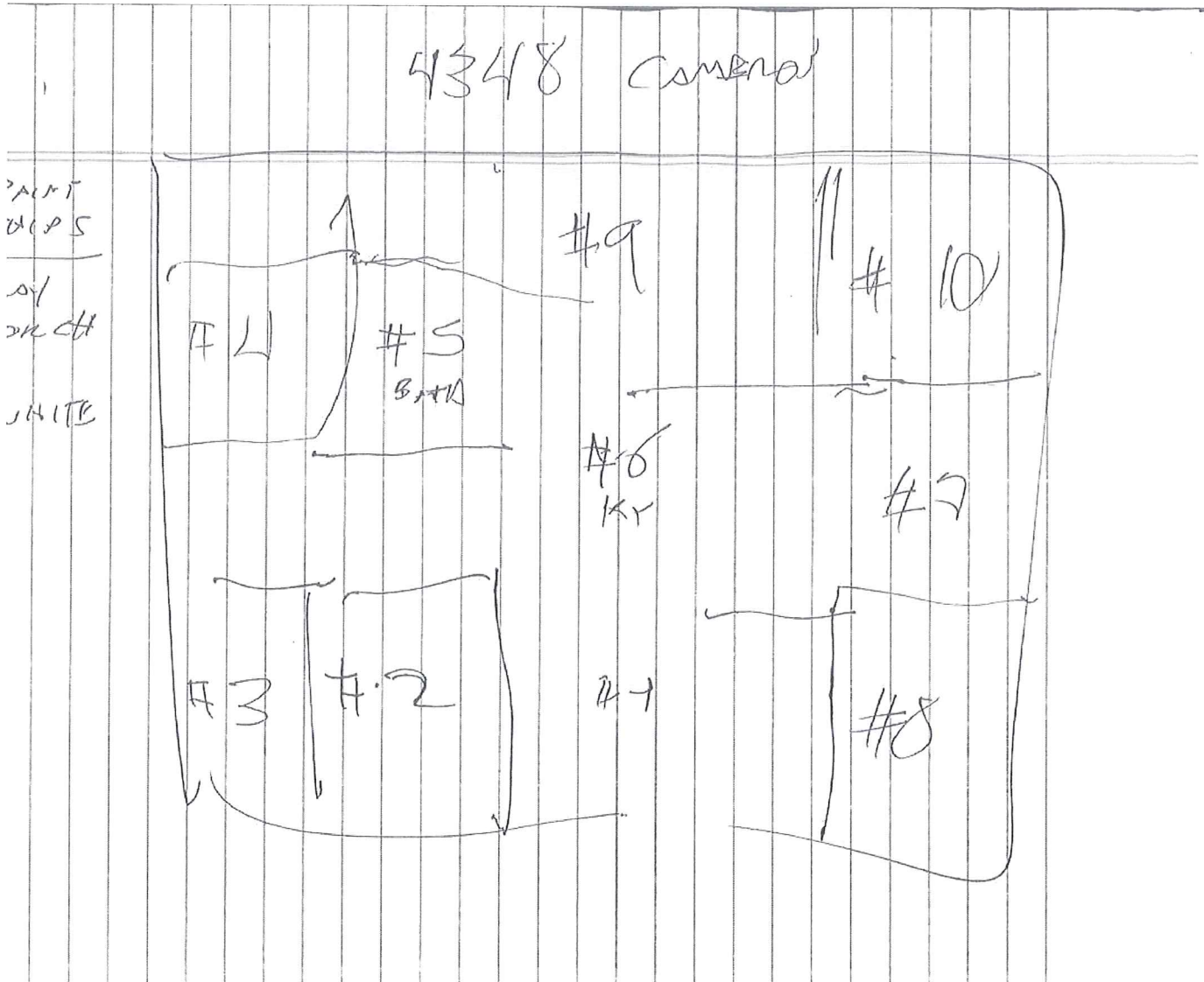
004B	004 - Sealant, Window Pane Glazing	Unassigned	Exterior	EPA Test Method 600/R-93/116 (PLM)
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Sampled By	Date	Time
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<i>DN</i>	<i>1/23/2000</i>	<i>8AM</i>	Received By	Date	Time	Received By	Date	Time	Received By	Date	Time
Relinquished By	Date	Time	Relinquished By	Date	Time	Relinquished By	Date	Time			

Analysis By	Date	Time
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APPENDIX C: LOCATION MAP



CUMBERLAND COUNTY COMMUNITY DEVELOPMENT  
707 EXECUTIVE PLACE  
FAYETTEVILLE, NC 28302

INVITATION TO BID DEMOLITION OF VACANT RESIDENTIAL STRUCTURES  
DISASTER RECOVERY PROGRAMS (DRA/HMGP)  
Number 019 – 001-2

BID FORM

Project Address: **4310 Cameron Road, Hope Mills, NC GROUP 2**

I, the undersigned Contractor, have inspected the above property and understand the extent and character of the work to be completed as described in the Invitation for Bid dated **February 27, 2020**, general specifications and related documents.

I declare that this bid is made without collusion or fraud and I propose to furnish all labor, materials, equipment, and supervision necessary to accomplish the work, as listed in the above mentioned documents, on the property identified above for the sum of:

---

(write out dollar amount)

(\$ \_\_\_\_\_)

I agree to honor this bid for a minimum of thirty (30) days from the date of the bid opening.

CONTRACTOR'S FIRM: \_\_\_\_\_

SIGNATURE OF OWNER OF FIRM: \_\_\_\_\_

DATE: \_\_\_\_\_

**GENERAL SCOPE - 4310 Cameron Road, Hope Mills, NC**

*Vacant Residential Building Demolition Specifications*

*Scope:* This item consists of the removal of all vacant residential building and appurtenances in accordance with the proposal, general provisions and the requirements set forth.

*Regulatory Requirements –*

- A. Contractor shall obtain all required permits and/or licenses from local authorities. Comply with Laws and Regulations for demolition of structures, protection of adjacent structures, dust control, runoff control, and disposal.
- B. Conform to all applicable procedure when hazardous or contaminated materials are encountered in accordance to risk assessment / abatement report findings provided by certified risk assessors – see attached.
- C. The discovery of hazardous materials shall be communicated to the County’s Contracting Agency Project Manager immediately. For each class of hazardous material, the contractor shall provide certification that the building components have been disposed of in accordance with local, state and federal requirement for permanent disposal.
- D. Debris shall be removed to a legal landfill as required by EPA and local regulations.
- E. Should asbestos and/or other hazardous substances be found during inspection, the building demolition and site clean-up will be conducted in a way to be compliance with all federal and state environmental laws and regulations.
- F. This project may require abatement of asbestos containing materials by asbestos abatement contractors licensed to work in the State of North Carolina.

*Utilities Location and Verification –*

- A. Contact local Utilities Locator Services prior to any demolition to locate water, gas, electric, cable or phone lines. All utilities must be disconnected from property to be demolished.
- B. The Contractor shall verify whether or not underground storage tanks are present at the project site. If underground tanks are present, the Contractor must notify the proper authorities and County’s Contracting Agency Project Manager prior to removal. If septic tank is present, contents must be properly disposed of, the tank crushed in place and back filled in. All work shall comply with local regulatory requirements.

*Preparation –*

- A. Provide, erect, and maintain temporary barriers and security devices.
- C. Protect all existing landscape items, appurtenances, and structures which are not scheduled to be demolished. Note that trees over 12” diameter are to remain, unless it is obstructing the actual demolition process. Only debris, trash and manmade materials must be cleared and removed from the site, established vegetation shall remain on the lot.
- D. Prevent movement or settlement of adjacent structures. Provide bracing and shoring as required.

*Demolition Requirements –*

- A. Conduct demolition to minimize interference with adjacent structures.
- B. Cease operations immediately if adjacent structures appear to be in danger. Notify the County’s Contracting Agency Project Manager.

- C. Spray all work areas with water to minimize dust. Provide hoses, water connections, and water for this purpose.

*Demolition –*

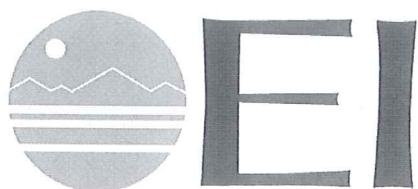
- D. Remove entirely: all structures including: footing, foundations, floors, concrete slabs, walls, roof structures, contents, etc. to include concrete or asphalt driveways.
- E. Remove entirely all demolished materials, debris, trash, manmade materials from the site, established vegetation shall remain on the lot.
- F. Backfilling shall be performed as per the Site Restoration Specifications.
- G. Do not burn or bury any materials on site.**
- H. All refuse removed from the site shall be disposed of at an approved landfill.

Site Restoration Specifications

*Backfilling – Topsoil*

- I. Approved material for backfilling is clean fill dirt. Backfill materials shall be compacted to at least 95% of optimum density.
- J. Install approximately 4” of topsoil at all disturbed areas.
- K. Remove foreign material, weeds, and debris. Also remove any clods, clumps, lumps, boulders, and stones that are not inclusive of the natural state of the site. Grading should be uniform across the lot.





Environmental, Health and Safety Solutions.™



January 27, 2020

Ms. Sylvia McLean  
CD Consultant, CDBG-DR  
Cumberland County Community Development  
707 Executive Place  
Fayetteville, North Carolina 28305

RE: Asbestos and Lead Inspection  
4310 Cameron Rd., Hope Mills, North Carolina  
EI Project No: IHMO200018.00

Dear Ms. Sylvia McLean:

The EI Group, Inc. performed a limited asbestos inspection for the residence located at 4310 Cameron Rd. in Hope Mills, North Carolina. The inspection was performed by Mr. Fabrizio Simoni (NC Asbestos Inspector #12723) on January 21, 2020 and limited to the residence's accessible interior and exterior.

### Findings/Results

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

- Ceramic Tile Grout
- Floor Leveling Compound
- Gypsum Wallboard
- mastic hvac
- Roofing, Composite Shingle

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

### Lead-Based Paint (LBP)

**Of the painted materials tested, none were found above HUD definition of lead-based paint of 1 microgram per square centimetre (>1 mg/cm<sup>3</sup>) of surface or > 0.5% by weight.**

**Lead-Containing Paint**

**Of the painted materials tested, none were found to contain lead in concentration great then the laboratories minimum reporting limits (MRP) of 10 ug.**

**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.



Mr. Lee B Clark  
Senior PM, Industrial Hygiene

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

January 24, 2020

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

**CLIENT PROJECT:** Cumberland County, 4310 Cameron Rd., Hope Mills, North Carolina 28348, IHMO200018.00  
**CEI LAB CODE:** A200652

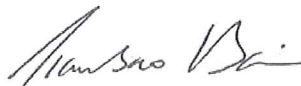
Dear Customer:

Enclosed are asbestos analysis results for PLM Bulk samples received at our laboratory on January 23, 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



---

730 SE Maynard Road • Cary, NC 27511 • 919.481.1413

---

**ASBESTOS ANALYTICAL REPORT**  
**By: Polarized Light Microscopy**

Prepared for  
**The EI Group**

---

CLIENT PROJECT: Cumberland County, 4310 Cameron Rd., Hope Mills,  
North Carolina 28348, IHMO200018.00

LAB CODE: A200652

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

REPORT DATE: 01/24/20

TOTAL SAMPLES ANALYZED: 10

# SAMPLES >1% ASBESTOS:



**Asbestos Report Summary**  
By: POLARIZING LIGHT MICROSCOPY

**PROJECT:** Cumberland County, 4310 Cameron Rd., **LAB CODE:** A200652  
Hope Mills, North Carolina 28348, IHMO200018.00

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

Client ID	Layer	Lab ID	Color	Sample Description	ASBESTOS %
001A		A10637	White	Gypsum Wallboard / Mud	None Detected
001B		A10638	White	Gypsum Wallboard / Mud	None Detected
002A		A10639	Cream	HVAC Mastic	None Detected
002B		A10640	Cream	HVAC Mastic	None Detected
003A		A10641	White	Floor Leveling Compound	None Detected
003B		A10642	White	Floor Leveling Compound	None Detected
004A		A10643	Cream	Ceramic Tile Grout	None Detected
004B		A10644	Cream	Ceramic Tile Grout	None Detected
005A	Layer 1	A10645	Black	Roofing Shingle	None Detected
	Layer 2	A10645	Black	Tarpaper	None Detected
005B	Layer 1	A10646	Black	Roofing Shingle	None Detected
	Layer 2	A10646	Black	Tarpaper	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:** A200652  
**Date Received:** 01-23-20  
**Date Analyzed:** 01-24-20  
**Date Reported:** 01-24-20

**Project:** Cumberland County, 4310 Cameron Rd., Hope Mills, North Carolina 28348, IHMO200018.00

**ASBESTOS BULK PLM, EPA 600 METHOD**

Client ID Lab ID	Lab Description	Lab Attributes	NON-ASBESTOS COMPONENTS				ASBESTOS %
			Fibrous		Non-Fibrous		
001A A10637	Gypsum Wallboard / Mud	Heterogeneous	10%	Cellulose	10%	Calc Carb	None Detected
		White			5%	Binder	
		Fibrous			75%	Gypsum	
		Bound					
001B A10638	Gypsum Wallboard / Mud	Heterogeneous	10%	Cellulose	10%	Calc Carb	None Detected
		White			5%	Binder	
		Fibrous			75%	Gypsum	
		Bound					
002A A10639	HVAC Mastic	Homogeneous	2%	Cellulose	60%	Mastic	None Detected
		Cream			38%	Calc Carb	
		Fibrous					
		Bound					
002B A10640	HVAC Mastic	Homogeneous	2%	Cellulose	60%	Mastic	None Detected
		Cream			38%	Calc Carb	
		Fibrous					
		Bound					
003A A10641	Floor Leveling Compound	Homogeneous	2%	Fiberglass	60%	Binder	None Detected
		White			38%	Silicates	
		Fibrous					
		Bound					
003B A10642	Floor Leveling Compound	Homogeneous	2%	Fiberglass	60%	Binder	None Detected
		White			38%	Silicates	
		Fibrous					
		Bound					
004A A10643	Ceramic Tile Grout	Homogeneous	<1%	Cellulose	60%	Binder	None Detected
		Cream			40%	Silicates	
		Fibrous					
		Bound					

**ASBESTOS BULK ANALYSIS**  
By: POLARIZING LIGHT MICROSCOPY

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

**Lab Code:** A200652  
**Date Received:** 01-23-20  
**Date Analyzed:** 01-24-20  
**Date Reported:** 01-24-20

**Project:** Cumberland County, 4310 Cameron Rd., Hope Mills, North Carolina 28348, IHMO200018.00

**ASBESTOS BULK PLM, EPA 600 METHOD**

Client ID Lab ID	Lab Description	Lab Attributes	NON-ASBESTOS COMPONENTS			ASBESTOS %	
			Fibrous	Non-Fibrous			
004B A10644	Ceramic Tile Grout	Homogeneous	<1%	Cellulose	60%	Binder	None Detected
		Cream Fibrous Bound			40%	Silicates	
005A Layer 1 A10645	Roofing Shingle	Heterogeneous	25%	Fiberglass	10%	Gravel	None Detected
		Black Fibrous Bound			65%	Tar	
Layer 2 A10645	Tarpaper	Homogeneous	70%	Cellulose	30%	Tar	None Detected
005B Layer 1 A10646	Roofing Shingle	Heterogeneous	25%	Fiberglass	10%	Gravel	None Detected
		Black Fibrous Bound			60%	Tar	
Layer 2 A10646	Tarpaper	Homogeneous	70%	Cellulose	30%	Tar	None Detected



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**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

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

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**REGULATORY LIMIT:** >1% by weight

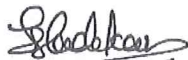
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Due to the limitations of the EPA 600 method, nonfriable organically bound materials (NOBs) such as vinyl floor tiles can be difficult to analyze via polarized light microscopy (PLM). EPA recommends that all NOBs analyzed by PLM, and found not to contain 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.*

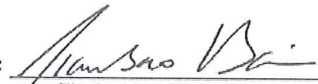
This report relates only to the samples tested or analyzed and may not be reproduced, except in full, without written approval by Eurofins CEI. Eurofins CEI makes no warranty representation regarding the accuracy of client submitted information in preparing and presenting analytical results. Interpretation 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:

  
Shripa Ladekar

APPROVED BY:

  
Tianbao Bai, Ph.D., CIH  
Laboratory Director





The EI Group, Inc.  
2101 Gateway Centre Boulevard, Suite 200  
Morrisville, North Carolina 27560

EUROFINS CEI INC  
SAMPLES ACCEPTED

*90*

**Laboratory Notes**

Stop after first positive for each HM

**Samples**

Sample ID	Material	Floor / Section	Space	Analysis
001A	001 - Gypsum Wallboard	Unassigned	Living Room	EPA Test Method 600/R-93/116 (PLM)
001B	001 - Gypsum Wallboard	Unassigned	Bathroom	EPA Test Method 600/R-93/116 (PLM)
002A	002 - mastic hvac	Unassigned	Storage Room	EPA Test Method 600/R-93/116 (PLM)
002B	002 - mastic hvac	Unassigned	Storage Room	EPA Test Method 600/R-93/116 (PLM)
003A	003 - Floor Leveling Compound	Unassigned	Bathroom	EPA Test Method 600/R-93/116 (PLM)
003B	003 - Floor Leveling Compound	Unassigned	Bathroom	EPA Test Method 600/R-93/116 (PLM)
004A	004 - Ceramic Tile Grout	Unassigned	Bathroom	EPA Test Method 600/R-93/116 (PLM)

The EI Group, Inc. - Chain of Custody For Cumberland County  
Cumberland County - IHMO200018.00

1 of 2



F6FQ4H

**Chain of Custody**

Laboratory: Eurofins CEI  
Project: IHMO200018.00  
Site Location: Cumberland County  
4310 Cameron Rd.  
Hope Mills, North Carolina 28348  
Sampled By: Lee Clark (lclark@ei1.com)  
Reporting By: Kristen Switzer (kswitzer@ei1.com)  
Purpose: NESHAP Compliance (Pre-Renovation/Pre-Demolition)

**Turn-Around Time Request**

Standard

A200052

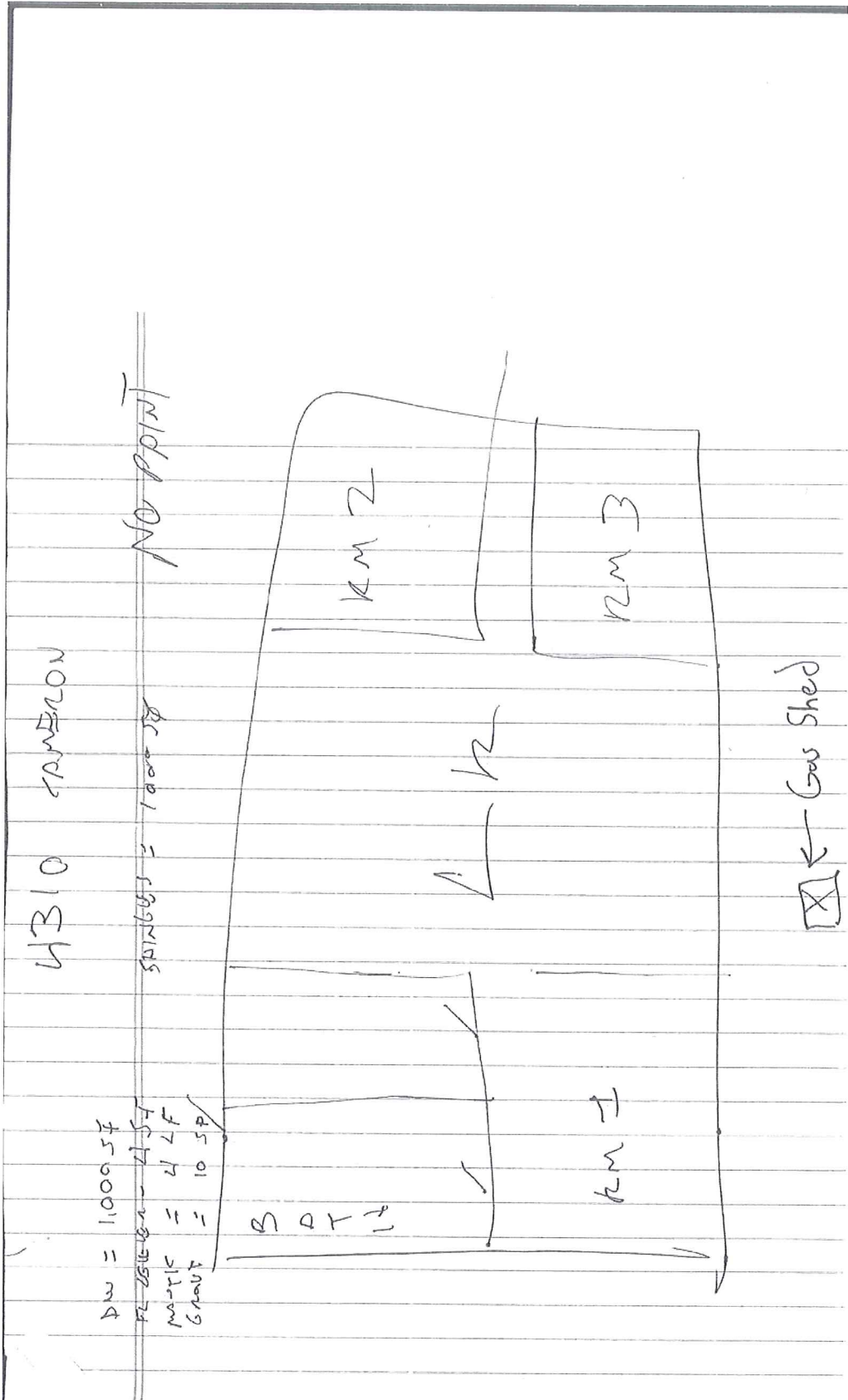
004B	004 - Ceramic Tile Grout	Unassigned	Bathroom	EPA Test Method 600/R-93/116 (PLM)
005A	005 - Roofing, Composite Shingle	Unassigned	Exterior	EPA Test Method 600/R-93/116 (PLM)
005B	005 - Roofing, Composite Shingle	Unassigned	Exterior	EPA Test Method 600/R-93/116 (PLM)

Sampled By	Date	Time
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<i>EO</i>	<i>4/23/2020</i>	<i>8:30 AM</i>	Received By	Date	Time	Received By	Date	Time
Relinquished By	Date	Time	Relinquished By	Date	Time	Relinquished By	Date	Time

Analysis By	Date	Time
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APPENDIX C: LOCATION MAP



CUMBERLAND COUNTY COMMUNITY DEVELOPMENT  
707 EXECUTIVE PLACE  
FAYETTEVILLE, NC 28302

INVITATION TO BID DEMOLITION OF VACANT RESIDENTIAL STRUCTURES  
DISASTER RECOVERY PROGRAMS (DRA/HMGP)  
Number 019 – 001-2

BID FORM

Project Address: **4245 Cameron Road, Hope Mills, NC GROUP 2**

I, the undersigned Contractor, have inspected the above property and understand the extent and character of the work to be completed as described in the Invitation for Bid dated **February 27, 2020**, general specifications and related documents.

I declare that this bid is made without collusion or fraud and I propose to furnish all labor, materials, equipment, and supervision necessary to accomplish the work, as listed in the above mentioned documents, on the property identified above for the sum of:

---

(write out dollar amount)

(\$ \_\_\_\_\_)

I agree to honor this bid for a minimum of thirty (30) days from the date of the bid opening.

CONTRACTOR'S FIRM: \_\_\_\_\_

SIGNATURE OF OWNER OF FIRM: \_\_\_\_\_

DATE: \_\_\_\_\_

## GENERAL SCOPE - 4245 Cameron Road, Hope Mills, NC

### *Vacant Residential Building Demolition Specifications*

*Scope:* This item consists of the removal of all vacant residential building and appurtenances in accordance with the proposal, general provisions and the requirements set forth.

#### *Regulatory Requirements –*

- A. Contractor shall obtain all required permits and/or licenses from local authorities. Comply with Laws and Regulations for demolition of structures, protection of adjacent structures, dust control, runoff control, and disposal.
- B. Conform to all applicable procedure when hazardous or contaminated materials are encountered in accordance to risk assessment / abatement report findings provided by certified risk assessors – see attached.
- C. The discovery of hazardous materials shall be communicated to the County's Contracting Agency Project Manager immediately. For each class of hazardous material, the contractor shall provide certification that the building components have been disposed of in accordance with local, state and federal requirement for permanent disposal.
- D. Debris shall be removed to a legal landfill as required by EPA and local regulations.
- E. Should asbestos and/or other hazardous substances be found during inspection, the building demolition and site clean-up will be conducted in a way to be compliance with all federal and state environmental laws and regulations.
- F. This project may require abatement of asbestos containing materials by asbestos abatement contractors licensed to work in the State of North Carolina.

#### *Utilities Location and Verification –*

- G. Contact local Utilities Locator Services prior to any demolition to locate water, gas, electric, cable or phone lines. All utilities must be disconnected from property to be demolished.
- H. The Contractor shall verify whether or not underground storage tanks are present at the project site. If underground tanks are present, the Contractor must notify the proper authorities and County's Contracting Agency Project Manager prior to removal. If septic tank is present, contents must be properly disposed of, the tank crushed in place and back filled in. All work shall comply with local regulatory requirements.

#### *Preparation –*

- I. Provide, erect, and maintain temporary barriers and security devices.
- J. Protect all existing landscape items, appurtenances, and structures which are not scheduled to be demolished. Note that trees over 12" diameter are to remain, unless it is obstructing the actual demolition process. Only debris, trash and manmade materials must be cleared and removed from the site, established vegetation shall remain on the lot.
- K. Prevent movement or settlement of adjacent structures. Provide bracing and shoring as required.

#### *Demolition Requirements –*

- L. Conduct demolition to minimize interference with adjacent structures.
- M. Cease operations immediately if adjacent structures appear to be in danger. Notify the County's Contracting Agency Project Manager.

- N. Spray all work areas with water to minimize dust. Provide hoses, water connections, and water for this purpose.

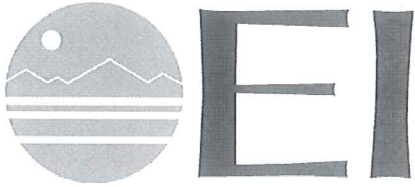
*Demolition –*

- O. Remove entirely: all structures including: footing, foundations, floors, concrete slabs, walls, roof structures, contents, etc. to include concrete or asphalt driveways.
- P. Remove entirely all demolished materials, debris, trash, manmade materials from the site, established vegetation shall remain on the lot.
- Q. Backfilling shall be performed as per the Site Restoration Specifications.
- R. Do not burn or bury any materials on site.**
- S. All refuse removed from the site shall be disposed of at an approved landfill.

Site Restoration Specifications

*Backfilling – Topsoil*

- T. Approved material for backfilling is clean fill dirt. Backfill materials shall be compacted to at least 95% of optimum density.
- U. Install approximately 4” of topsoil at all disturbed areas.
- V. Remove foreign material, weeds, and debris. Also remove any clods, clumps, lumps, boulders, and stones that are not inclusive of the natural state of the site. Grading should be uniform across the lot.



Environmental, Health and Safety Solutions.™



January 27, 2020

Ms. Sylvia McLean  
CD Consultant, CDBG-DR  
Cumberland County Community Development  
707 Executive Place  
Fayetteville, North Carolina 28305

RE: Asbestos and Lead Inspection  
4245 Cameron Rd., Hope Mills, North Carolina  
EI Project No: IHMO200018.00

Dear Ms. Sylvia McLean:

The EI Group, Inc. performed a limited asbestos inspection for the residence located at 4245 Cameron Rd. in Hope Mills, North Carolina. The inspection was performed by Mr. Fabrizio Simoni (NC Asbestos Inspector #12723) on January 21, 2020 and limited to the residence's accessible interior and exterior.

### Findings/Results

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

- Caulk, Door
- Floor Leveling Compound
- Flooring
- Gypsum Wallboard
- Insulation
- Roofing, Composite Shingle

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

### Lead-Based Paint (LBP)



Of the painted materials tested, none were found above HUD definition of lead-based paint of 1 microgram per square centimetre ( $>1 \text{ mg}/\text{cm}^2$ ) of surface or  $> 0.5\%$  by weight.

Lead-Containing Paint

Of the painted materials tested, one was found to contain lead in concentration great then the laboratories minimum reporting limits (MRP) of 10 ug.

- Soffit (White)

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.



Mr. Lee Clark  
Senior, PM Industrial Hygiene

- 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

January 24, 2020

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

**CLIENT PROJECT:** Cumberland County, 4245 Cameron Rd., Hope Mills, North Carolina 28306, IHMO200018.00  
**CEI LAB CODE:** A200660

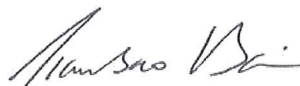
Dear Customer:

Enclosed are asbestos analysis results for PLM Bulk samples received at our laboratory on January 23, 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



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730 SE Maynard Road • Cary, NC 27511 • 919.481.1413

---

**ASBESTOS ANALYTICAL REPORT**  
**By: Polarized Light Microscopy**

Prepared for  
**The EI Group**

---

CLIENT PROJECT: Cumberland County, 4245 Cameron Rd., Hope Mills,  
North Carolina 28306, IHMO200018.00

LAB CODE: A200660

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

REPORT DATE: 01/24/20

TOTAL SAMPLES ANALYZED: 12

# SAMPLES >1% ASBESTOS:

PROJECT: Cumberland County, 4245 Cameron Rd., LAB CODE: A200660  
 Hope Mills, North Carolina 28306, IHMO200018.00

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

Client ID	Layer	Lab ID	Color	Sample Description	ASBESTOS %
001A		A10711	Red,Gray	Door Caulk	None Detected
001B		A10712	Red,Gray	Door Caulk	None Detected
002A		A10713	White	Gypsum Wallboard	None Detected
002B		A10714	White	Gypsum Wallboard	None Detected
003A	Layer 1	A10715	Black,Gray	Composite Shingle	None Detected
	Layer 2	A10715	Black	Tarpaper	None Detected
003B	Layer 1	A10716	Black,Gray	Composite Shingle	None Detected
	Layer 2	A10716	Black	Tarpaper	None Detected
004A		A10717	Gray,Tan	Flooring	None Detected
004B		A10718	Gray,Tan	Flooring	None Detected
005A		A10719	Gray	Insulation	None Detected
005B		A10720	Gray	Insulation	None Detected
006A		A10721	Gray	Leveling Compound	None Detected
006B		A10722	Gray	Leveling Compound	None Detected

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

**Lab Code:** A200660  
**Date Received:** 01-23-20  
**Date Analyzed:** 01-24-20  
**Date Reported:** 01-24-20

**Project:** Cumberland County, 4245 Cameron Rd., Hope Mills, North Carolina 28306, IHMO200018.00

**ASBESTOS BULK PLM, EPA 600 METHOD**

Client ID Lab ID	Lab Description	Lab Attributes	NON-ASBESTOS COMPONENTS			ASBESTOS %	
			Fibrous	Non-Fibrous			
001A A10711	Door Caulk	Heterogeneous	98%	Caulk	None Detected		
		Red,Gray	2%	Paint			
		Non-fibrous Bound					
001B A10712	Door Caulk	Heterogeneous	98%	Caulk	None Detected		
		Red,Gray	2%	Paint			
		Non-fibrous Bound					
002A A10713	Gypsum Wallboard	Heterogeneous	13%	Cellulose	None Detected		
		White	2%	Fiberglass			
		Fibrous Bound					
002B A10714	Gypsum Wallboard	Heterogeneous	13%	Cellulose	None Detected		
		White	2%	Fiberglass			
		Fibrous Bound					
003A Layer 1 A10715	Composite Shingle	Heterogeneous	45%	Fiberglass	None Detected		
		Black,Gray	40%	Tar			
		Fibrous Bound	15%	Gravel			
Layer 2 A10715	Tarpaper	Homogeneous	80%	Cellulose	20%	Tar	None Detected
003B Layer 1 A10716	Composite Shingle	Heterogeneous	45%	Fiberglass	None Detected		
		Black,Gray	40%	Tar			
		Fibrous Bound	15%	Gravel			



CEI

**ASBESTOS BULK ANALYSIS**

By: POLARIZING LIGHT MICROSCOPY

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

**Lab Code:** A200660  
**Date Received:** 01-23-20  
**Date Analyzed:** 01-24-20  
**Date Reported:** 01-24-20

**Project:** Cumberland County, 4245 Cameron Rd., Hope Mills, North Carolina 28306, IHMO200018.00

**ASBESTOS BULK PLM, EPA 600 METHOD**

Client ID Lab ID	Lab Description	Lab Attributes	NON-ASBESTOS COMPONENTS			ASBESTOS %	
			Fibrous	Non-Fibrous			
Layer 2 A10716	Tarpaper	Homogeneous Black Fibrous Bound	80%	Cellulose	20%	Tar	None Detected
<b>004A</b> A10717	Flooring	Heterogeneous Gray,Tan Fibrous Bound	45% 5%	Cellulose Fiberglass	35% 15%	Binder Silicates	None Detected
<b>004B</b> A10718	Flooring	Heterogeneous Gray,Tan Fibrous Bound	45% 5%	Cellulose Fiberglass	35% 15%	Binder Silicates	None Detected
<b>005A</b> A10719	Insulation	Homogeneous Gray Fibrous Loose	2% 90%	Cellulose Fiberglass	8%	Binder	None Detected
<b>005B</b> A10720	Insulation	Homogeneous Gray Fibrous Loose	2% 90%	Cellulose Fiberglass	8%	Binder	None Detected
<b>006A</b> A10721	Leveling Compound	Homogeneous Gray Non-fibrous Bound	<1%	Cellulose	35% 65%	Binder Silicates	None Detected
<b>006B</b> A10722	Leveling Compound	Homogeneous Gray Non-fibrous Bound	<1%	Cellulose	35% 65%	Binder Silicates	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

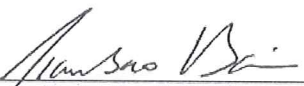
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Due to the limitations of the EPA 600 method, nonfriable organically bound materials (NOBs) such as vinyl floor tiles can be difficult to analyze via polarized light microscopy (PLM). EPA recommends that all NOBs analyzed by PLM, and found not to contain 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:**   
McLane Brown

**APPROVED BY:**   
Tianbao Bai, Ph.D., CIH  
Laboratory Director







The EI Group, Inc.  
2101 Gateway Centre Boulevard, Suite 200  
Morrisville, North Carolina 27560



3VA443

**Chain of Custody**

Laboratory: Eurofins CEI  
Project: IHMO200018.00  
Site Location: Cumberland County  
4245 Cameron Rd.  
Hope Mills, North Carolina 28306  
Sampled By: Lee Clark (lclark@ei1.com)  
Reporting By: Kristen Switzer (kswitzer@ei1.com)  
Purpose: NESHAP Compliance (Pre-Renovation/Pre-Demolition)

**Laboratory Notes**

Stop after first positive for each HM

**Turn-Around Time Request**

Standard

**Samples**

Sample ID	Material	Floor / Section	Space	Analysis
001A	001 - Caulk, Door	Unassigned	Laundry Room	EPA Test Method 600/R-93/116 (PLM)
001B	001 - Caulk, Door	Unassigned	Laundry Room	EPA Test Method 600/R-93/116 (PLM)
002A	002 - Gypsum Wallboard	Unassigned	Living Room	EPA Test Method 600/R-93/116 (PLM)
002B	002 - Gypsum Wallboard	Unassigned	Living Room	EPA Test Method 600/R-93/116 (PLM)
003A	003 - Roofing, Composite Shingle	Unassigned	Roof	EPA Test Method 600/R-93/116 (PLM)
003B	003 - Roofing, Composite Shingle	Unassigned	Roof	EPA Test Method 600/R-93/116 (PLM)
004A	004 - Flooring	Unassigned	Living Room	EPA Test Method 600/R-93/116 (PLM)

The EI Group, Inc. - Chain of Custody For Cumberland County  
Cumberland County - IHMO200018.00

Eurofins CEI Inc  
Samples Accepted

1 of 2

AWB 000

004B	004 - Flooring	Unassigned	Living Room	EPA Test Method 600/R-93/116 (PLM)
005A	005 - Insulation	Unassigned	Room 4	EPA Test Method 600/R-93/116 (PLM)
005B	005 - Insulation	Unassigned	Room 4	EPA Test Method 600/R-93/116 (PLM)
006A	006 - Floor Leveling Compound	Unassigned	Exterior	EPA Test Method 600/R-93/116 (PLM)
006B	006 - Floor Leveling Compound	Unassigned	Exterior	EPA Test Method 600/R-93/116 (PLM)

Sampled By	Date	Time
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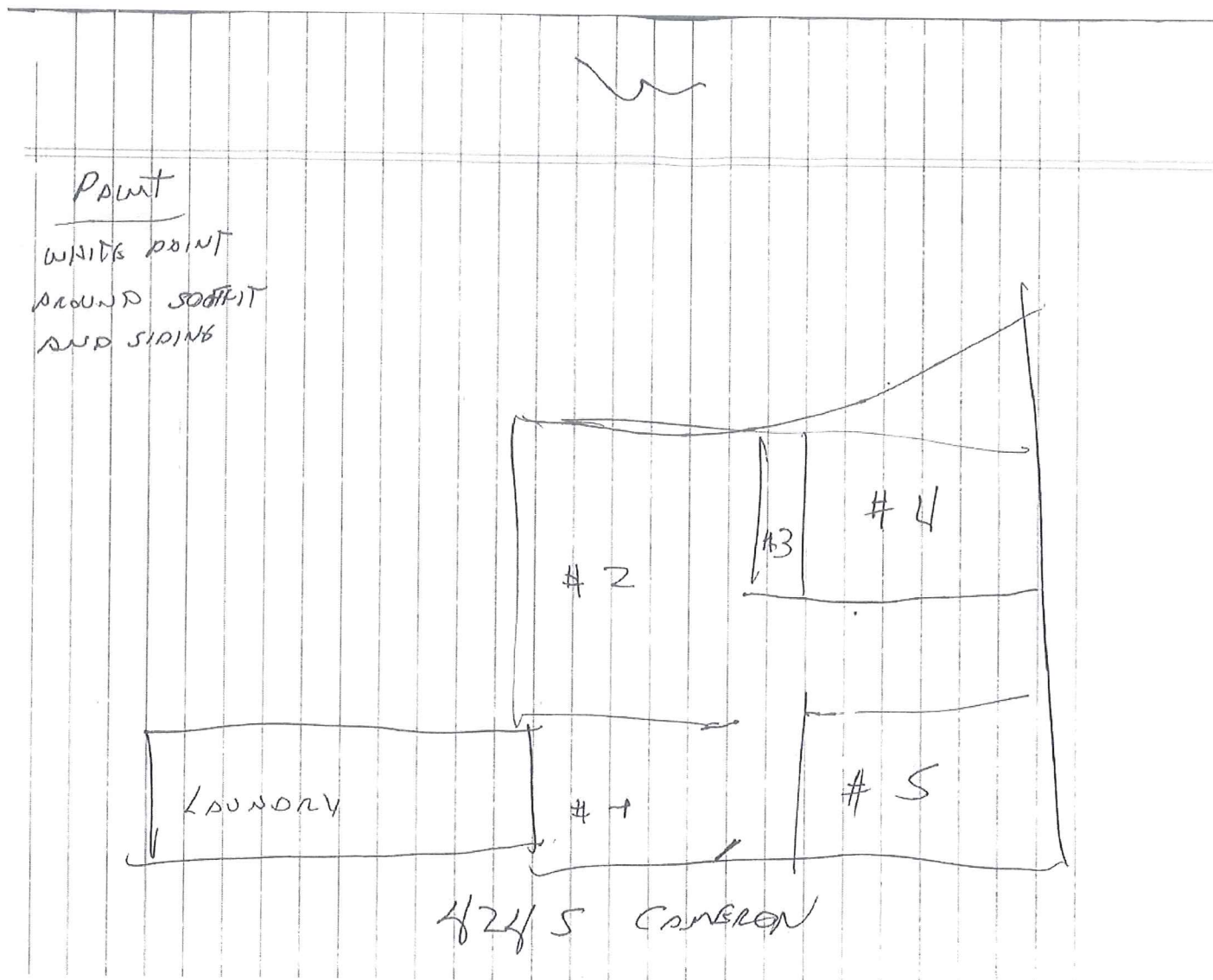
Received By	Date	Time
Relinquished By	Date	Time

Received By	Date	Time
Relinquished By	Date	Time

Received By	Date	Time
Relinquished By	Date	Time

Analysis By	Date	Time
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APPENDIX C: SAMPLE LOCATION MAPS



CUMBERLAND COUNTY COMMUNITY DEVELOPMENT  
707 EXECUTIVE PLACE  
FAYETTEVILLE, NC 28302

INVITATION TO BID DEMOLITION OF VACANT RESIDENTIAL STRUCTURES  
DISASTER RECOVERY PROGRAMS (DRA/HMGP)  
Number 019 – 001-2

BID FORM

Project Address: 4122 Freedom Lane, Hope Mills, NC GROUP 2

I, the undersigned Contractor, have inspected the above property and understand the extent and character of the work to be completed as described in the Invitation for Bid dated February 27, 2020, general specifications and related documents.

I declare that this bid is made without collusion or fraud and I propose to furnish all labor, materials, equipment, and supervision necessary to accomplish the work, as listed in the above mentioned documents, on the property identified above for the sum of:

---

(write out dollar amount)

(\$ \_\_\_\_\_ )

I agree to honor this bid for a minimum of thirty (30) days from the date of the bid opening.

CONTRACTOR'S FIRM: \_\_\_\_\_

SIGNATURE OF OWNER OF FIRM: \_\_\_\_\_

DATE: \_\_\_\_\_

## GENERAL SCOPE - 4122 Freedom Lane, Hope Mills, NC

### *Vacant Residential Building Demolition Specifications*

*Scope:* This item consists of the removal of all vacant residential building and appurtenances in accordance with the proposal, general provisions and the requirements set forth.

#### *Regulatory Requirements –*

- A. Contractor shall obtain all required permits and/or licenses from local authorities. Comply with Laws and Regulations for demolition of structures, protection of adjacent structures, dust control, runoff control, and disposal.
- B. Conform to all applicable procedure when hazardous or contaminated materials are encountered in accordance to risk assessment / abatement report findings provided by certified risk assessors – see attached.
- C. The discovery of hazardous materials shall be communicated to the County's Contracting Agency Project Manager immediately. For each class of hazardous material, the contractor shall provide certification that the building components have been disposed of in accordance with local, state and federal requirement for permanent disposal.
- D. Debris shall be removed to a legal landfill as required by EPA and local regulations.
- E. Should asbestos and/or other hazardous substances be found during inspection, the building demolition and site clean-up will be conducted in a way to be compliance with all federal and state environmental laws and regulations.
- G. This project may require abatement of asbestos containing materials by asbestos abatement contractors licensed to work in the State of North Carolina.

#### *Utilities Location and Verification –*

- H. Contact local Utilities Locator Services prior to any demolition to locate water, gas, electric, cable or phone lines. All utilities must be disconnected from property to be demolished.
- I. The Contractor shall verify whether or not underground storage tanks are present at the project site. If underground tanks are present, the Contractor must notify the proper authorities and County's Contracting Agency Project Manager prior to removal. If septic tank is present, contents must be properly disposed of, the tank crushed in place and back filled in. All work shall comply with local regulatory requirements.

#### *Preparation –*

- J. Provide, erect, and maintain temporary barriers and security devices.
- K. Protect all existing landscape items, appurtenances, and structures which are not scheduled to be demolished. Note that trees over 12" diameter are to remain, unless it is obstructing the actual demolition process. Only debris, trash and manmade materials must be cleared and removed from the site, established vegetation shall remain on the lot.
- L. Prevent movement or settlement of adjacent structures. Provide bracing and shoring as required.

#### *Demolition Requirements –*

- M. Conduct demolition to minimize interference with adjacent structures.
- N. Cease operations immediately if adjacent structures appear to be in danger. Notify the County's Contracting Agency Project Manager.

- O. Spray all work areas with water to minimize dust. Provide hoses, water connections, and water for this purpose.

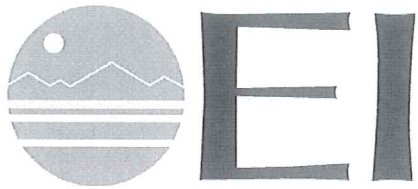
*Demolition –*

- P. Remove entirely: all structures including: footing, foundations, floors, concrete slabs, walls, roof structures, contents, etc. to include concrete or asphalt driveways.
- Q. Remove entirely all demolished materials, debris, trash, manmade materials from the site, established vegetation shall remain on the lot.
- R. Backfilling shall be performed as per the Site Restoration Specifications.
- S. **Do not burn or bury any materials on site.**
- T. All refuse removed from the site shall be disposed of at an approved landfill.

Site Restoration Specifications

*Backfilling – Topsoil*

- U. Approved material for backfilling is clean fill dirt. Backfill materials shall be compacted to at least 95% of optimum density.
- V. Install approximately 4” of topsoil at all disturbed areas.
- W. Remove foreign material, weeds, and debris. Also remove any clods, clumps, lumps, boulders, and stones that are not inclusive of the natural state of the site. Grading should be uniform across the lot.



Environmental, Health and Safety Solutions.™



January 27, 2020

Ms. Sylvia H. McLean  
CD Consultant, CDBG-DR  
Cumberland County Community Development  
707 Executive Place  
Fayetteville, North Carolina 28305

RE: Asbestos and Lead Inspection  
4122 Freedom Ln., Hope Mills, North Carolina  
EI Project No: IHMO200018.00

Dear Ms. Sylvia H. McLean:

The EI Group, Inc. performed a limited asbestos inspection for the residence located at 4122 Freedom Ln. in Hope Mills, North Carolina. The inspection was performed by Mr. Fabrizio Simoni (NC Asbestos Inspector #12723) on January 21, 2020 and limited to the residence's accessible interior and exterior.

### Findings/Results

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

- Ceramic Tile Grout and leveler
- Gypsum Wallboard
- insulation
- Roofing, Composite Shingle
- transite siding
- transite siding

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

Lead-Based Paint (LBP)

Of the painted materials tested, none were found above HUD definition of lead-based paint of 1 microgram per square centimetre ( $>1 \text{ mg}/\text{cm}^2$ ) of surface or  $> 0.5\%$  by weight.

Lead-Containing Paint

Of the painted materials tested, one was found to contain lead in concentration great then the laboratories minimum reporting limits (MRP) of 10 ug.

- Living Room ( Yellow)

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.



Lee B. Clark  
Senior PM, Industrial Hygiene

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

January 24, 2020

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

**CLIENT PROJECT:** Cumberland County, 4122 Freedom Ln., Hope Mills, North Carolina 28348, IHMO200018.00  
**CEI LAB CODE:** A200654

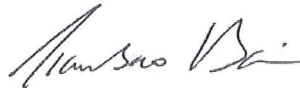
Dear Customer:

Enclosed are asbestos analysis results for PLM Bulk samples received at our laboratory on January 23, 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



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730 SE Maynard Road • Cary, NC 27511 • 919.481.1413



CEI



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**ASBESTOS ANALYTICAL REPORT**  
**By: Polarized Light Microscopy**

Prepared for

**The EI Group**

---

CLIENT PROJECT: Cumberland County, 4122 Freedom Ln., Hope Mills,  
North Carolina 28348, IHMO200018.00

LAB CODE: A200654

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

REPORT DATE: 01/24/20

TOTAL SAMPLES ANALYZED: 10

# SAMPLES >1% ASBESTOS:



**Asbestos Report Summary**  
By: POLARIZING LIGHT MICROSCOPY

**PROJECT:** Cumberland County, 4122 Freedom Ln., Hope Mills, North Carolina 28348, IHMO200018.00 **LAB CODE:** A200654

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

Client ID	Layer	Lab ID	Color	Sample Description	ASBESTOS %
001A		A10655	Gray,White	Gypsum Wallboard / Mud	None Detected
001B		A10656	Gray,White	Gypsum Wallboard / Mud	None Detected
002A		A10657	White	Insulation	None Detected
002B		A10658	White	Insulation	None Detected
003A	Layer 1	A10659	Cream/Brown	Ceramic Tile	None Detected
	Layer 2	A10659	Cream	Grout	None Detected
	Layer 3	A10659	Gray	Leveler	None Detected
003B	Layer 1	A10660	Cream/Brown	Ceramic Tile	None Detected
	Layer 2	A10660	Cream	Grout	None Detected
	Layer 3	A10660	Gray	Leveler	None Detected
004A		A10661	Yellow/Cream	Transite Siding	None Detected
004B		A10662	Yellow/Cream	Transite Siding	None Detected
005A	Layer 1	A10663	Gray	Roofing Shingle	None Detected
	Layer 2	A10663	Black	Roofing Shingle	None Detected
005B	Layer 1	A10664	Gray	Roofing Shingle	None Detected
	Layer 2	A10664	Black	Roofing Shingle	None Detected



**ASBESTOS BULK ANALYSIS**  
By: POLARIZING LIGHT MICROSCOPY

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

**Lab Code:** A200654  
**Date Received:** 01-23-20  
**Date Analyzed:** 01-24-20  
**Date Reported:** 01-24-20

**Project:** Cumberland County, 4122 Freedom Ln., Hope Mills, North Carolina 28348, IHMO200018.00

**ASBESTOS BULK PLM, EPA 600 METHOD**

Client ID Lab ID	Lab Description	Lab Attributes	NON-ASBESTOS COMPONENTS				ASBESTOS %
			Fibrous		Non-Fibrous		
001A A10655	Gypsum Wallboard / Mud	Heterogeneous Gray,White Fibrous Bound	10%	Cellulose	10%	Calc Carb	None Detected
					5%	Binder	
					75%	Gypsum	
001B A10656	Gypsum Wallboard / Mud	Heterogeneous Gray,White Fibrous Bound	10%	Cellulose	10%	Calc Carb	None Detected
					5%	Binder	
					75%	Gypsum	
002A A10657	Insulation	Homogeneous White Fibrous Loose	100%	Fiberglass			None Detected
002B A10658	Insulation	Homogeneous White Fibrous Loose	100%	Fiberglass			None Detected
003A Layer 1 A10659	Ceramic Tile	Heterogeneous Cream/Brown Non-fibrous Tightly Bound			60%	Binder	None Detected
					40%	Silicates	
Layer 2 A10659	Grout	Homogeneous Cream Fibrous Bound	<1%	Cellulose	60%	Binder	None Detected
					40%	Silicates	
Layer 3 A10659	Leveler	Homogeneous Gray Fibrous Bound	<1%	Cellulose	60%	Binder	None Detected
					40%	Silicates	

**ASBESTOS BULK ANALYSIS**  
By: POLARIZING LIGHT MICROSCOPY

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

**Lab Code:** A200654  
**Date Received:** 01-23-20  
**Date Analyzed:** 01-24-20  
**Date Reported:** 01-24-20

**Project:** Cumberland County, 4122 Freedom Ln., Hope Mills, North Carolina 28348, IHMO200018.00

**ASBESTOS BULK PLM, EPA 600 METHOD**

Client ID Lab ID	Lab Description	Lab Attributes	NON-ASBESTOS COMPONENTS				ASBESTOS %
			Fibrous		Non-Fibrous		
003B Layer 1 A10660	Ceramic Tile	Heterogeneous	60%	Binder		None Detected	
		Cream/Brown	40%	Silicates			
		Non-fibrous Tightly Bound					
Layer 2 A10660	Grout	Homogeneous	<1%	Cellulose	60%	Binder	None Detected
		Cream			40%	Silicates	
		Fibrous Bound					
Layer 3 A10660	Leveler	Homogeneous	<1%	Cellulose	60%	Binder	None Detected
		Gray			40%	Silicates	
		Fibrous Bound					
004A A10661	Transite Siding	Heterogeneous	35%	Cellulose	3%	Paint	None Detected
		Yellow/Cream	2%	Fiberglass	60%	Binder	
		Fibrous Bound					
004B A10662	Transite Siding	Heterogeneous	35%	Cellulose	3%	Paint	None Detected
		Yellow/Cream	2%	Fiberglass	60%	Binder	
		Fibrous Bound					
005A Layer 1 A10663	Roofing Shingle	Heterogeneous	25%	Fiberglass	10%	Gravel	None Detected
		Gray			60%	Tar	
		Fibrous Bound			5%	Silicates	
Layer 2 A10663	Roofing Shingle	Heterogeneous	25%	Fiberglass	10%	Gravel	None Detected
		Black			60%	Tar	
		Fibrous Bound			5%	Silicates	

**ASBESTOS BULK ANALYSIS**  
By: POLARIZING LIGHT MICROSCOPY

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

**Lab Code:** A200654  
**Date Received:** 01-23-20  
**Date Analyzed:** 01-24-20  
**Date Reported:** 01-24-20

**Project:** Cumberland County, 4122 Freedom Ln., Hope Mills, North Carolina 28348, IHMO200018.00

**ASBESTOS BULK PLM, EPA 600 METHOD**

Client ID Lab ID	Lab Description	Lab Attributes	NON-ASBESTOS COMPONENTS			ASBESTOS %	
			Fibrous	Non-Fibrous			
005B Layer 1 A10664	Roofing Shingle	Heterogeneous	25%	Fiberglass	10%	Gravel	None Detected
		Gray			60%	Tar	
		Fibrous			5%	Silicates	
		Bound					
Layer 2 A10664	Roofing Shingle	Heterogeneous	25%	Fiberglass	10%	Gravel	None Detected
		Black			60%	Tar	
		Fibrous			5%	Silicates	
		Bound					

---

**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.*

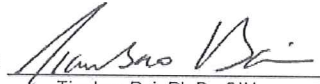
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Information provided by customer includes customer sample ID and sample description.

ANALYST:

  
Shilpa Ladekar

APPROVED BY:

  
Tianbao Bai, Ph.D., CIH  
Laboratory Director







The EI Group, Inc.  
2101 Gateway Centre Boulevard, Suite 200  
Montville, North Carolina 27560

EUROFINS CEI INC  
SAMPLE RECEIVED  
*EN*



**Chain of Custody**

Laboratory: Eurofins CEI  
Project: #MO200018.00  
Site Location: Cumberland County  
4122 Freedom Ln.  
Hope Mills, North Carolina 28348  
Sampled By: Lee Clark (lclark@ei1.com)  
Reporting By: Kristen Switzer (kswitzer@ei1.com)  
Purpose: NESHAP Compliance (Pre-Renovation/Pre-Demolition)

**Turn-Around Time Request**

Standard

**Laboratory Notes**

Stop after first positive for each HM


**Samples**

Sample ID	Material	Floor / Section	Space	Analysis
001A	001 - Gypsum Wallboard	Unassigned	Bedroom 2	EPA Test Method 600/R-93/116 (PLM)
001B	001 - Gypsum Wallboard	Unassigned	Kitchen	EPA Test Method 600/R-93/116 (PLM)
002A	002 - insulation	Unassigned	Bedroom 3	EPA Test Method 600/R-93/116 (PLM)
002B	002 - insulation	Unassigned	bedroom 4	EPA Test Method 600/R-93/116 (PLM)
003A	003 - Ceramic Tile Grout and leveler	Unassigned	Bathroom 2	EPA Test Method 600/R-93/116 (PLM)
003B	003 - Ceramic Tile Grout and leveler	Unassigned	Bathroom 2	EPA Test Method 600/R-93/116 (PLM)
004A	004 - Insite siding	Unassigned	Exterior	EPA Test Method 600/R-93/116 (PLM)

R200654

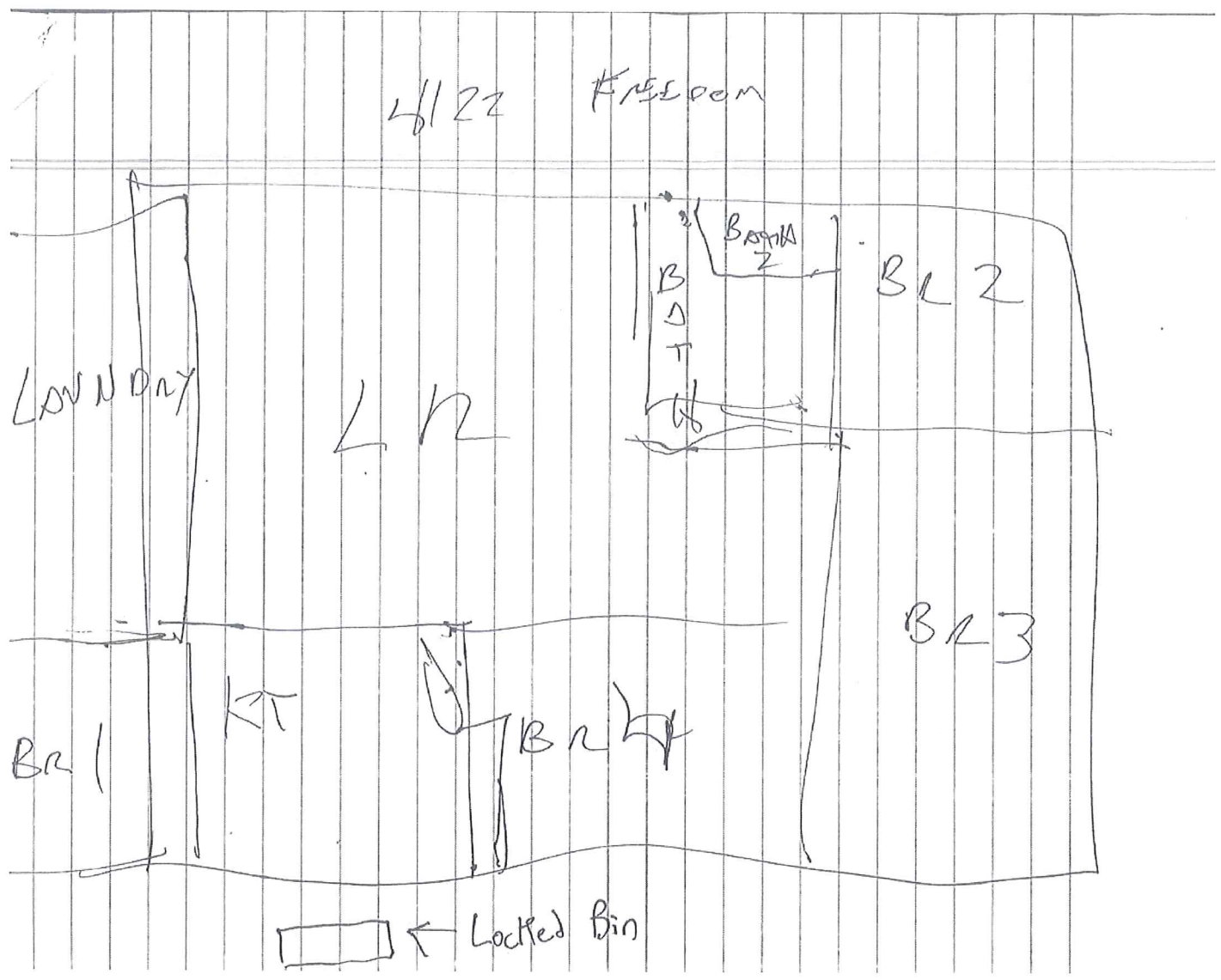
004B	005 - transite siding	Unassigned	Exterior	EPA Test Method 600/R-93/116 (PLM)
005A	006 - Roofing, Composite Shingle	Unassigned	Exterior	EPA Test Method 600/R-93/116 (PLM)
005B	006 - Roofing, Composite Shingle	Unassigned	Exterior	EPA Test Method 600/R-93/116 (PLM)

Sampled By	Date	Time
------------	------	------

 Received By	4/23/2020 Date	8:44 AM Time	Received By	Date	Time	Received By	Date	Time
Relinquished By	Date	Time	Relinquished By	Date	Time	Relinquished By	Date	Time

Analysis By	Date	Time
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APPENDIX C: LOCATION MAP



CUMBERLAND COUNTY COMMUNITY DEVELOPMENT  
707 EXECUTIVE PLACE  
FAYETTEVILLE, NC 28302

INVITATION TO BID DEMOLITION OF VACANT RESIDENTIAL STRUCTURES  
DISASTER RECOVERY PROGRAMS (DRA/HMGP)  
Number 019 – 001-2

BID FORM

Project Address: **3929 E. Cole St., Hope Mills, NC**      **GROUP 2**

I, the undersigned Contractor, have inspected the above property and understand the extent and character of the work to be completed as described in the Invitation for Bid dated **February 27, 2020**, general specifications and related documents.

I declare that this bid is made without collusion or fraud and I propose to furnish all labor, materials, equipment, and supervision necessary to accomplish the work, as listed in the above mentioned documents, on the property identified above for the sum of:

---

(write out dollar amount)

(\$ \_\_\_\_\_)

I agree to honor this bid for a minimum of thirty (30) days from the date of the bid opening.

CONTRACTOR'S FIRM: \_\_\_\_\_

SIGNATURE OF OWNER OF FIRM: \_\_\_\_\_

DATE: \_\_\_\_\_

**GENERAL SCOPE** - 3929 E. Cole St., Hope Mills, NC.

*Vacant Residential Building Demolition Specifications*

*Scope:* This item consists of the removal of all vacant residential building and appurtenances in accordance with the proposal, general provisions and the requirements set forth.

*Regulatory Requirements –*

- A. Contractor shall obtain all required permits and/or licenses from local authorities. Comply with Laws and Regulations for demolition of structures, protection of adjacent structures, dust control, runoff control, and disposal.
- B. Conform to all applicable procedure when hazardous or contaminated materials are encountered in accordance to risk assessment / abatement report findings provided by certified risk assessors – see attached.
- C. The discovery of hazardous materials shall be communicated to the County’s Contracting Agency Project Manager immediately. For each class of hazardous material, the contractor shall provide certification that the building components have been disposed of in accordance with local, state and federal requirement for permanent disposal.
- D. Debris shall be removed to a legal landfill as required by EPA and local regulations.
- E. Should asbestos and/or other hazardous substances be found during inspection, the building demolition and site clean-up will be conducted in a way to be compliance with all federal and state environmental laws and regulations.
- F. This project may require abatement of asbestos containing materials by asbestos abatement contractors licensed to work in the State of North Carolina.

*Utilities Location and Verification –*

- G. Contact local Utilities Locator Services prior to any demolition to locate water, gas, electric, cable or phone lines. All utilities must be disconnected from property to be demolished.
- H. The Contractor shall verify whether or not underground storage tanks are present at the project site. If underground tanks are present, the Contractor must notify the proper authorities and County’s Contracting Agency Project Manager prior to removal. If septic tank is present, contents must be properly disposed of, the tank crushed in place and back filled in. All work shall comply with local regulatory requirements.

*Preparation –*

- I. Provide, erect, and maintain temporary barriers and security devices.
- J. Protect all existing landscape items, appurtenances, and structures which are not scheduled to be demolished. Note that trees over 12” diameter are to remain, unless it is obstructing the actual demolition process. Only debris, trash and manmade materials must be cleared and removed from the site, established vegetation shall remain on the lot.
- K. Prevent movement or settlement of adjacent structures. Provide bracing and shoring as required.

*Demolition Requirements –*

- L. Conduct demolition to minimize interference with adjacent structures.
- M. Cease operations immediately if adjacent structures appear to be in danger. Notify the County’s Contracting Agency Project Manager.

- N. Spray all work areas with water to minimize dust. Provide hoses, water connections, and water for this purpose.

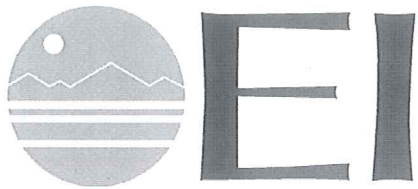
*Demolition –*

- O. Remove entirely: all structures including: footing, foundations, floors, concrete slabs, walls, roof structures, contents, etc. to include concrete or asphalt driveways.
- P. Remove entirely all demolished materials, debris, trash, manmade materials from the site, established vegetation shall remain on the lot.
- Q. Backfilling shall be performed as per the Site Restoration Specifications.
- R. Do not burn or bury any materials on site.**
- S. All refuse removed from the site shall be disposed of at an approved landfill.

Site Restoration Specifications

*Backfilling – Topsoil*

- T. Approved material for backfilling is clean fill dirt. Backfill materials shall be compacted to at least 95% of optimum density.
- U. Install approximately 4" of topsoil at all disturbed areas.
- V. Remove foreign material, weeds, and debris. Also remove any clods, clumps, lumps, boulders, and stones that are not inclusive of the natural state of the site. Grading should be uniform across the lot.



Environmental, Health and Safety Solutions.™



January 27, 2020

Ms. Sylvia H. McLean  
CD Consultant, CDBG-DR  
Cumberland County Community Development  
707 Executive Place  
Fayetteville, North Carolina 28305

RE: Asbestos and Lead Inspection  
3929 E. Cole St., Hope Mills, North Carolina  
EI Project No: IHMO200018.00

Dear Ms. Sylvia H. McLean:

The EI Group, Inc. performed a limited asbestos inspection for the residence located at 3929 E. Cole St. in Hope Mills, North Carolina. The inspection was performed by Mr. Fabrizzio Simoni (NC Asbestos Inspector #12723) on January 21, 2020 and limited to the residence's accessible interior and exterior.

### Findings/Results

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

- Caulk, Window
- Gypsum Wallboard
- Roofing, Composite Shingle
- Textured Ceiling Material (Popcorn)

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

### Lead-Based Paint (LBP)

Of the painted materials tested, three were found above HUD definition of lead-based paint of 1 microgram per square centimetre ( $>1 \text{ mg}/\text{cm}^2$ ) of surface or  $> 0.5\%$  by weight.

- Window (Turquoise)
- Door (White)
- Exterior Steps (Grey)

Lead-Containing Paint

Of the painted materials tested, two were found to contain lead in concentration great then the laboratories minimum reporting limits (MRP) of 10 ug.

- Window (Blue)
- Door (Light Green)

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.

  
Lee B. Clark

Senior PM, Industrial Hygiene

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

January 24, 2020

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

**CLIENT PROJECT:** Cumberland County, 3929 E. Cole St., Hope Mills, North Carolina  
28348, IHMO200018.00  
**CEI LAB CODE:** A200650

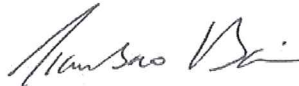
Dear Customer:

Enclosed are asbestos analysis results for PLM Bulk samples received at our laboratory on January 23, 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



---

730 SE Maynard Road • Cary, NC 27511 • 919.481.1413

---

**ASBESTOS ANALYTICAL REPORT**  
**By: Polarized Light Microscopy**

Prepared for

**The EI Group**

---

CLIENT PROJECT: Cumberland County, 3929 E. Cole St., Hope Mills, North Carolina 28348, IHMO200018.00

LAB CODE: A200650

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

REPORT DATE: 01/24/20

TOTAL SAMPLES ANALYZED: 8

# SAMPLES >1% ASBESTOS:

**PROJECT:** Cumberland County, 3929 E. Cole St.,      **LAB CODE:** A200650  
Hope Mills, North Carolina 28348, IHMO200018.00

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

Client ID	Layer	Lab ID	Color	Sample Description	ASBESTOS %
001A		A10623	White	Textured Ceiling	None Detected
001B		A10624	White	Textured Ceiling	None Detected
002A		A10625	White	Gypsum Wallboard	None Detected
002B		A10626	White	Gypsum Wallboard	None Detected
003A	Layer 1	A10627	Black	Roofing Shingle	None Detected
	Layer 2	A10627	Black	Tarpaper	None Detected
003B	Layer 1	A10628	Black	Roofing Shingle	None Detected
	Layer 2	A10628	Black	Tarpaper	None Detected
004A		A10629	White	Caulk	None Detected
004B		A10630	White	Caulk	None Detected

**ASBESTOS BULK ANALYSIS**  
 By: POLARIZING LIGHT MICROSCOPY

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

**Lab Code:** A200650  
**Date Received:** 01-23-20  
**Date Analyzed:** 01-24-20  
**Date Reported:** 01-24-20

**Project:** Cumberland County, 3929 E. Cole St., Hope Mills, North Carolina 28348, IHMO200018.00

**ASBESTOS BULK PLM, EPA 600 METHOD**

Client ID Lab ID	Lab Description	Lab Attributes	NON-ASBESTOS COMPONENTS		ASBESTOS %		
			Fibrous	Non-Fibrous			
001A A10623	Textured Ceiling	Homogeneous	70%	Silicates	None Detected		
		White	25%	Calc Carb			
		Non-fibrous	5%	Paint			
		Bound					
001B A10624	Textured Ceiling	Homogeneous	70%	Silicates	None Detected		
		White	25%	Calc Carb			
		Non-fibrous	5%	Paint			
		Bound					
002A A10625	Gypsum Wallboard	Homogeneous	10%	Cellulose	70%	Gypsum	None Detected
		White	3%	Fiberglass	17%	Binder	
		Fibrous					
		Bound					
002B A10626	Gypsum Wallboard	Homogeneous	10%	Cellulose	70%	Gypsum	None Detected
		White	3%	Fiberglass	17%	Binder	
		Fibrous					
		Bound					
003A Layer 1 A10627	Roofing Shingle	Homogeneous	15%	Fiberglass	70%	Tar	None Detected
		Black			15%	Gravel	
		Fibrous					
		Bound					
Layer 2 A10627	Tarpaper	Homogeneous	40%	Cellulose	60%	Tar	None Detected
		Black					
		Fibrous					
		Bound					
003B Layer 1 A10628	Roofing Shingle	Homogeneous	15%	Fiberglass	70%	Tar	None Detected
		Black			15%	Gravel	
		Fibrous					
		Bound					



CEI

## ASBESTOS BULK ANALYSIS

By: POLARIZING LIGHT MICROSCOPY

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

**Lab Code:** A200650  
**Date Received:** 01-23-20  
**Date Analyzed:** 01-24-20  
**Date Reported:** 01-24-20

**Project:** Cumberland County, 3929 E. Cole St., Hope Mills, North Carolina 28348, IHMO200018.00

### ASBESTOS BULK PLM, EPA 600 METHOD

Client ID Lab ID	Lab Description	Lab Attributes	NON-ASBESTOS COMPONENTS			ASBESTOS %	
			Fibrous	Non-Fibrous			
Layer 2 A10628	Tarpaper	Homogeneous Black Fibrous Bound	40%	Cellulose	60%	Tar	None Detected
<b>004A</b> A10629	Caulk	Homogeneous White Fibrous Bound	3% 2%	Wollastonite Talc	65% 25%	Silicates Binder Paint	None Detected
<b>004B</b> A10630	Caulk	Homogeneous White Fibrous Bound	3% 2%	Wollastonite Talc	65% 25%	Silicates Binder Paint	None Detected

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**LEGEND:** Non-Anth = Non-Asbestiform Anthophyllite  
Non-Trem = Non-Asbestiform Tremolite  
Calc Carb = Calcium Carbonate

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

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**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.*

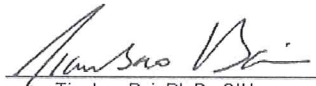
This report relates only to the samples tested or analyzed and may not be reproduced, except in full, without written approval by Eurofins CEI. Eurofins CEI makes no warranty representation regarding the accuracy of client submitted information in preparing and presenting analytical results. Interpretation 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:**

  
Michael Hoxie

**APPROVED BY:**

  
Tianbao Bai, Ph.D., CIH  
Laboratory Director





The EI Group, Inc.  
2101 Gateway Centre Boulevard, Suite 200  
Morrisville, North Carolina 27560



**Laboratory Notes**

Stop after first positive for each HM

**Samples**

Sample ID	Material	Floor / Section	Space	Analysis
001A	001 - Textured Ceiling Material (Popcorn)	Unassigned	room 4	EPA Test Method 600/R-93/116 (PLM)
001B	001 - Textured Ceiling Material (Popcorn)	Unassigned	room 2	EPA Test Method 600/R-93/116 (PLM)
002A	002 - Gypsum Wallboard	Unassigned	room 2	EPA Test Method 600/R-93/116 (PLM)
002B	002 - Gypsum Wallboard	Unassigned	room 2	EPA Test Method 600/R-93/116 (PLM)
003A	003 - Roofing, Composite Shingle	Unassigned	Exterior	EPA Test Method 600/R-93/116 (PLM)
003B	003 - Roofing, Composite Shingle	Unassigned	Exterior	EPA Test Method 600/R-93/116 (PLM)
004A	004 - Caulk, Window	Unassigned	Exterior	EPA Test Method 600/R-93/116 (PLM)

The EI Group, Inc. - Chain of Custody For Cumberland County  
Cumberland County - IHMO200018.00

1 of 2



A280050  
A10023-A18030

J04Z04

**Chain of Custody**

Laboratory: Eurofins CEI  
Project: IHMO200018.00  
Site Location: Cumberland County  
3929 E. Cole St.  
Hope Mills, North Carolina 28348  
Sampled By: Lee Clark (lclark@ei1.com)  
Reporting By: Kristen Switzer (kswitzer@ei1.com)  
Purpose: NESHAP Compliance (Pre-Renovation/Pre-Demolition)

**Turn-Around Time Request**

Standard



A280W50

004B	004 - Caulk, Window	Unassigned	Exterior	EPA Test Method 600/R-93/116 (PLM)
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Sampled By	Date	Time
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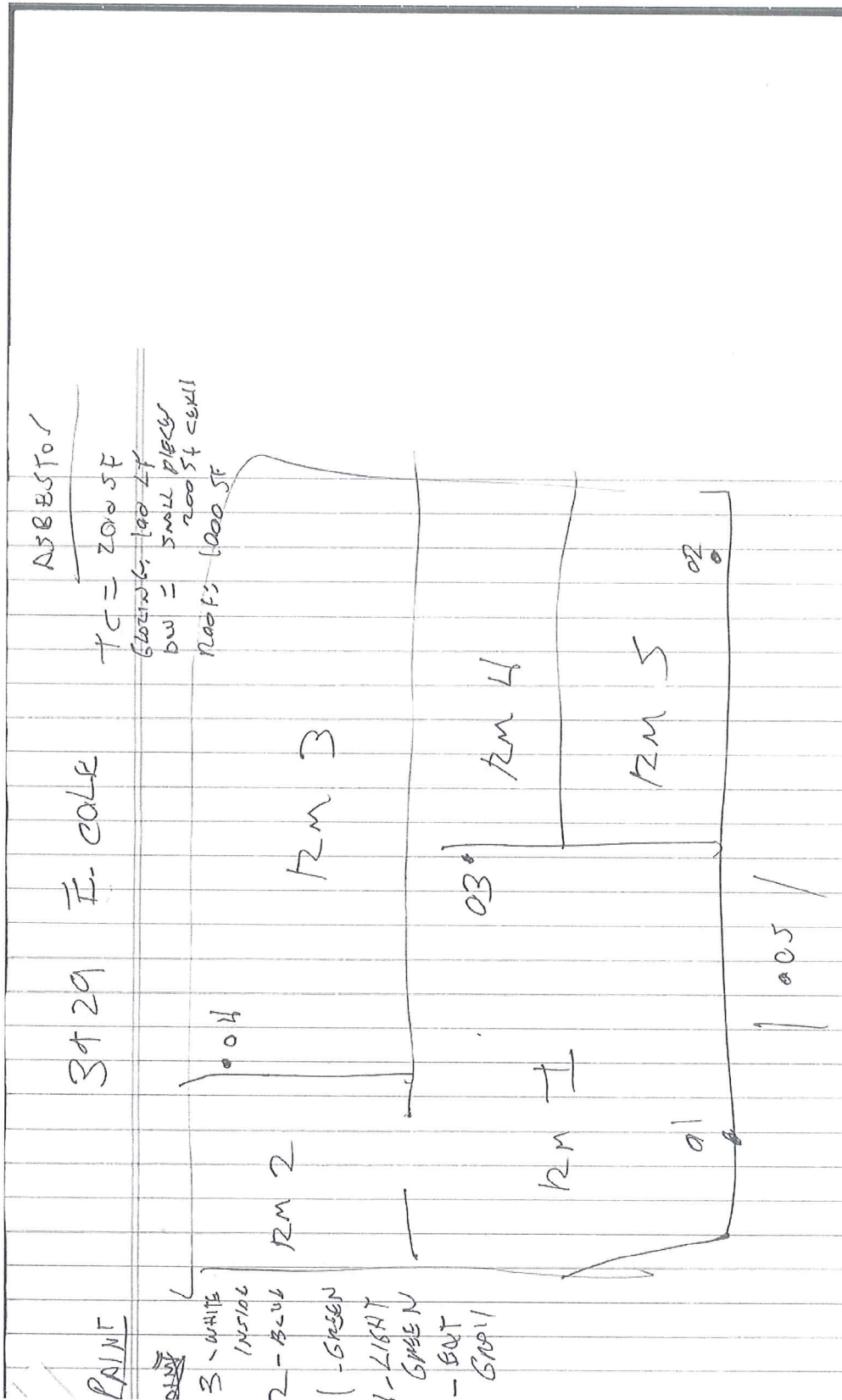
Received By	Date	Time
Relinquished By	Date	Time

Received By	Date	Time
Relinquished By	Date	Time

Received By	Date	Time
Relinquished By	Date	Time

Analysis By	Date	Time
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APPENDIX C: LOCATION MAP



CUMBERLAND COUNTY COMMUNITY DEVELOPMENT  
707 EXECUTIVE PLACE  
FAYETTEVILLE, NC 28302

INVITATION TO BID DEMOLITION OF VACANT RESIDENTIAL STRUCTURES  
DISASTER RECOVERY PROGRAMS (DRA/HMGP)  
Number 019 – 001-2

BID FORM

Project Address: **3194 Orangeburg Drive, Eastover, NC**

I, the undersigned Contractor, have inspected the above property and understand the extent and character of the work to be completed as described in the Invitation for Bid dated **February 27, 2020**, general specifications and related documents.

I declare that this bid is made without collusion or fraud and I propose to furnish all labor, materials, equipment, and supervision necessary to accomplish the work, as listed in the above mentioned documents, on the property identified above for the sum of:

---

(write out dollar amount)

(\$ \_\_\_\_\_ )

I agree to honor this bid for a minimum of thirty (30) days from the date of the bid opening.

CONTRACTOR'S FIRM: \_\_\_\_\_

SIGNATURE OF OWNER OF FIRM: \_\_\_\_\_

DATE: \_\_\_\_\_

## GENERAL SCOPE - 3194 Orangeburg Drive, Eastover, NC

### *Vacant Residential Building Demolition Specifications*

*Scope:* This item consists of the removal of all vacant residential building and appurtenances in accordance with the proposal, general provisions and the requirements set forth.

#### *Regulatory Requirements –*

- A. Contractor shall obtain all required permits and/or licenses from local authorities. Comply with Laws and Regulations for demolition of structures, protection of adjacent structures, dust control, runoff control, and disposal.
- B. Conform to all applicable procedure when hazardous or contaminated materials are encountered in accordance to risk assessment / abatement report findings provided by certified risk assessors – see attached.
- C. The discovery of hazardous materials shall be communicated to the County’s Contracting Agency Project Manager immediately. For each class of hazardous material, the contractor shall provide certification that the building components have been disposed of in accordance with local, state and federal requirement for permanent disposal.
- D. Debris shall be removed to a legal landfill as required by EPA and local regulations.
- E. Should asbestos and/or other hazardous substances be found during inspection, the building demolition and site clean-up will be conducted in a way to be compliance with all federal and state environmental laws and regulations.
- F. This project may require abatement of asbestos containing materials by asbestos abatement contractors licensed to work in the State of North Carolina.

#### *Utilities Location and Verification –*

- A. Contact local Utilities Locator Services prior to any demolition to locate water, gas, electric, cable or phone lines. All utilities must be disconnected from property to be demolished.
- B. The Contractor shall verify whether or not underground storage tanks are present at the project site. If underground tanks are present, the Contractor must notify the proper authorities and County’s Contracting Agency Project Manager prior to removal. If septic tank is present, contents must be properly disposed of, the tank crushed in place and back filled in. All work shall comply with local regulatory requirements.

#### *Preparation –*

- A. Provide, erect, and maintain temporary barriers and security devices.
- B. Protect all existing landscape items, appurtenances, and structures which are not scheduled to be demolished. Note that trees over 12” diameter are to remain, unless it is obstructing the actual demolition process. Only debris, trash and manmade materials must be cleared and removed from the site, established vegetation shall remain on the lot.
- C. Prevent movement or settlement of adjacent structures. Provide bracing and shoring as required.

#### *Demolition Requirements –*

- A. Conduct demolition to minimize interference with adjacent structures.
- B. Cease operations immediately if adjacent structures appear to be in danger. Notify the County’s Contracting Agency Project Manager.

- C. Spray all work areas with water to minimize dust. Provide hoses, water connections, and water for this purpose.

*Demolition –*

- A. Remove entirely: all structures including: footing, foundations, floors, concrete slabs, walls, roof structures, contents, etc. to include concrete or asphalt driveways.  
Remove entirely all demolished materials, debris, trash, manmade materials from the site, established vegetation shall remain on the lot.
- B. Backfilling shall be performed as per the Site Restoration Specifications. **Do not burn or bury any materials on site.**
- C. All refuse removed from the site shall be disposed of at an approved landfill.

Site Restoration Specifications

*Backfilling – Topsoil*

- A. Approved material for backfilling is clean fill dirt. Backfill materials shall be compacted to at least 95% of optimum density.
- B. Install approximately 4” of topsoil at all disturbed areas.
- C. Remove foreign material, weeds, and debris. Also remove any clods, clumps, lumps, boulders, and stones that are not inclusive of the natural state of the site. Grading should be uniform across the lot.

January 27, 2020

Ms. Sylvia H. McLean  
CD Consultant, CDBG-DR  
Cumberland County Community Development  
707 Executive Place  
Fayetteville, North Carolina 28305

RE: Asbestos and Lead Inspection  
3194 Orangeburg Dr., Eastover, North Carolina  
EI Project No: IHMO200018.00

Dear Ms. Sylvia H. McLean:

The EI Group, Inc. performed a limited asbestos inspection for the residence located at 3194 Orangeburg Dr. in Eastover, North Carolina. The inspection was performed by Mr. Fabrizio Simoni (NC Asbestos Inspector #12723) on January 21, 2020 and limited to the residence's accessible interior and exterior.

### Findings/Results

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

- Gypsum Wallboard
- Roofing, Composite Shingle
- Textured Ceiling Material (Popcorn)

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

### Lead-Based Paint (LBP)

**Of the painted materials tested, none were found above HUD definition of lead-based paint of 1 microgram per square centimetre (>1 mg//cm<sup>3</sup>) of surface or > 0.5% by weight.**

Lead-Containing Paint

**Of the painted materials tested, none were found to contain lead in concentration great then the laboratories minimum reporting limits (MRP) of 10 ug.**

**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.



Mr. Lee B. Clark  
Senior PM-Industrial Hygiene

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



January 24, 2020

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

**CLIENT PROJECT:** Cumberland County, 3194 Orangeburg Dr., Eastover, North Carolina 28312, IHMO200018.00

**CEI LAB CODE:** A200651

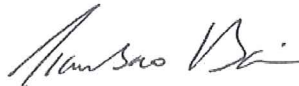
Dear Customer:

Enclosed are asbestos analysis results for PLM Bulk samples received at our laboratory on January 23, 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



---

730 SE Maynard Road • Cary, NC 27511 • 919.481.1413

---

**ASBESTOS ANALYTICAL REPORT**  
**By: Polarized Light Microscopy**

Prepared for  
**The EI Group**

---

CLIENT PROJECT: Cumberland County, 3194 Orangeburg Dr., Eastover,  
North Carolina 28312, IHMO200018.00

LAB CODE: A200651

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

REPORT DATE: 01/24/20

TOTAL SAMPLES ANALYZED: 6

# SAMPLES >1% ASBESTOS:



CEI

## Asbestos Report Summary

By: POLARIZING LIGHT MICROSCOPY

**PROJECT:** Cumberland County, 3194 Orangeburg Dr., Eastover, North Carolina 28312, IHMO200018.00      **LAB CODE:** A200651

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

Client ID	Layer	Lab ID	Color	Sample Description	ASBESTOS %
001A	Layer 1	A10631	Black	Roofing- Shingle	None Detected
	Layer 2	A10631	Black	Roofing- Felt Paper	None Detected
001B	Layer 1	A10632	Black	Roofing- Shingle	None Detected
	Layer 2	A10632	Black	Roofing- Felt Paper	None Detected
002A		A10633	White	Gypsum Board	None Detected
002B		A10634	White	Gypsum Board	None Detected
003A		A10635	White	Textured Ceiling Material	None Detected
003B		A10636	White	Textured Ceiling Material	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:** A200651  
**Date Received:** 01-23-20  
**Date Analyzed:** 01-24-20  
**Date Reported:** 01-24-20

**Project:** Cumberland County, 3194 Orangeburg Dr., Eastover, North Carolina 28312, IHMO200018.00

**ASBESTOS BULK PLM, EPA 600 METHOD**

Client ID Lab ID	Lab Description	Lab Attributes	NON-ASBESTOS COMPONENTS				ASBESTOS %
			Fibrous		Non-Fibrous		
<b>001A</b> Layer 1 A10631	Roofing- Shingle	Heterogeneous Black Fibrous Bound	25%	Fiberglass	60%	Tar	None Detected
					15%	Silicates	
Layer 2 A10631	Roofing- Felt Paper	Heterogeneous Black Fibrous Bound	25%	Cellulose	75%	Tar	None Detected
<b>001B</b> Layer 1 A10632	Roofing- Shingle	Heterogeneous Black Fibrous Bound	25%	Fiberglass	60%	Tar	None Detected
					15%	Silicates	
Layer 2 A10632	Roofing- Felt Paper	Heterogeneous Black Fibrous Bound	25%	Cellulose	75%	Tar	None Detected
<b>002A</b> A10633	Gypsum Board	Heterogeneous White Fibrous Bound	<1%	Cellulose	100%	Gypsum	None Detected
<b>002B</b> A10634	Gypsum Board	Heterogeneous White Fibrous Bound	<1%	Cellulose	100%	Gypsum	None Detected
<b>003A</b> A10635	Textured Ceiling Material	Heterogeneous White Fibrous Bound			65%	Silicates	None Detected
					32%	Calc Carb	
					3%	Paint	



CEI

## ASBESTOS BULK ANALYSIS

By: POLARIZING LIGHT MICROSCOPY

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

**Lab Code:** A200651  
**Date Received:** 01-23-20  
**Date Analyzed:** 01-24-20  
**Date Reported:** 01-24-20

**Project:** Cumberland County, 3194 Orangeburg Dr., Eastover, North Carolina 28312, IHMO200018.00

### ASBESTOS BULK PLM, EPA 600 METHOD

Client ID Lab ID	Lab Description	Lab Attributes	NON-ASBESTOS COMPONENTS		ASBESTOS %
			Fibrous	Non-Fibrous	
003B A10636	Textured Ceiling Material	Heterogeneous	65%	Silicates	None Detected
		White	32%	Calc Carb	
		Fibrous	3%	Paint	
		Bound			

---

**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

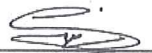
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Due to the limitations of the EPA 600 method, nonfriable organically bound materials (NOBs) such as vinyl floor tiles can be difficult to analyze via polarized light microscopy (PLM). EPA recommends that all NOBs analyzed by PLM, and found not to contain 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.*

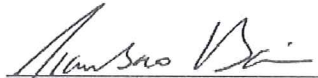
This report relates only to the samples tested or analyzed and may not be reproduced, except in full, without written approval by Eurofins CEI. Eurofins CEI makes no warranty representation regarding the accuracy of client submitted information in preparing and presenting analytical results. Interpretation 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:

  
Saithya Painkal

APPROVED BY:

  
Tianbao Bai, Ph.D., CIH  
Laboratory Director



The EI Group, Inc.  
2101 Gateway Centre Boulevard, Suite 200  
Morrisville, North Carolina 27560

EUROFINS CEI, INC  
SAMPLES ACCEPTED  
*EW*



**Chain of Custody**

Laboratory: Eurofins CEI  
Project: IHMO200018.00  
Site Location: Cumberland County  
3194 Orangeburg Dr.  
Eastover, North Carolina 28312  
Sampled By: Lee Clark (lclark@ei1.com)  
Reporting By: Kristen Switzer (kswitzer@ei1.com)  
Purpose: NESHAP Compliance (Pre-Renovation/Pre-Demolition)

**Laboratory Notes**

Stop after first positive for each HM

**Samples**

Sample ID	Material	Floor / Section	Space	Analysis
001A	001 - Roofing, Composite Shingle	Unassigned	Exterior	EPA Test Method 600/R-93/116 (PLM)
001B	001 - Roofing, Composite Shingle	Unassigned	Exterior	EPA Test Method 600/R-93/116 (PLM)
002A	002 - Gypsum Wallboard	Unassigned	Living Room	EPA Test Method 600/R-93/116 (PLM)
002B	002 - Gypsum Wallboard	Unassigned	room 1	EPA Test Method 600/R-93/116 (PLM)
003A	003 - Textured Ceiling Material (Popcom)	Unassigned	Living Room	EPA Test Method 600/R-93/116 (PLM)
003B	003 - Textured Ceiling Material (Popcom)	Unassigned	room 1	EPA Test Method 600/R-93/116 (PLM)

**Turn-Around Time Request**

Standard

A200051

Sampled By	Date	Time
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Received By	Date	Time
9N	1/23/2020	8AM
Relinquished By	Date	Time

Received By	Date	Time
Relinquished By	Date	Time

Received By	Date	Time
Relinquished By	Date	Time

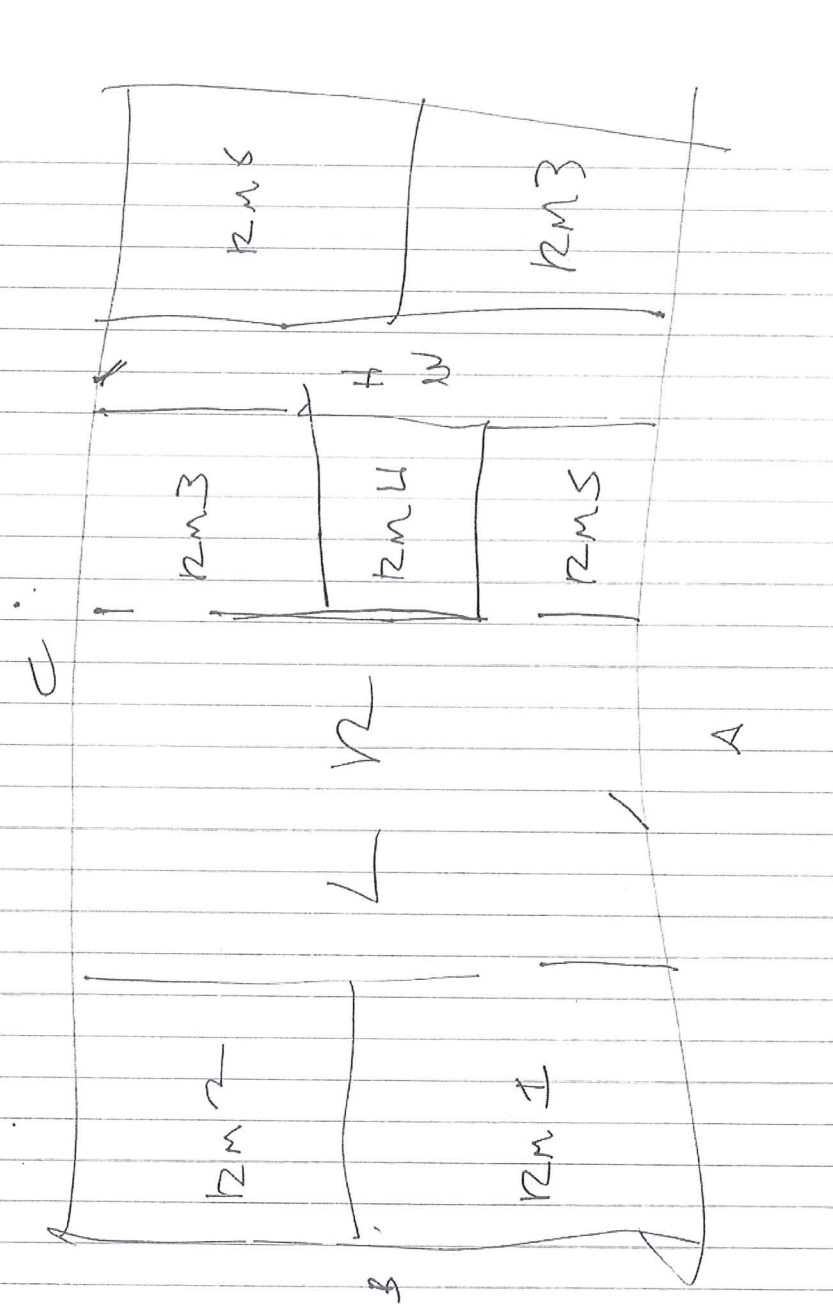
Analysis By	Date	Time
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## APPENDIX C: LOCATION MAP

X Gas shed  
X Well?

3194 OWENSBURG



CUMBERLAND COUNTY COMMUNITY DEVELOPMENT  
707 EXECUTIVE PLACE  
FAYETTEVILLE, NC 28302

INVITATION TO BID DEMOLITION OF VACANT RESIDENTIAL STRUCTURES  
DISASTER RECOVERY PROGRAMS (DRA/HMGP)  
Number 019 – 001-2

BID FORM

Project Address: **290 W. Manchester Rd., Spring Lake, NC**

I, the undersigned Contractor, have inspected the above property and understand the extent and character of the work to be completed as described in the Invitation for Bid dated **February 27, 2020**, general specifications and related documents.

I declare that this bid is made without collusion or fraud and I propose to furnish all labor, materials, equipment, and supervision necessary to accomplish the work, as listed in the above mentioned documents, on the property identified above for the sum of:

---

(write out dollar amount)

(\$ \_\_\_\_\_ )

I agree to honor this bid for a minimum of thirty (30) days from the date of the bid opening.

CONTRACTOR'S FIRM: \_\_\_\_\_

SIGNATURE OF OWNER OF FIRM: \_\_\_\_\_

DATE: \_\_\_\_\_

## GENERAL SCOPE - 290 W. Manchester Rd., Spring Lake, NC

### *Vacant Residential Building Demolition Specifications*

*Scope:* This item consists of the removal of all vacant residential building and appurtenances in accordance with the proposal, general provisions and the requirements set forth.

#### *Regulatory Requirements –*

- A. Contractor shall obtain all required permits and/or licenses from local authorities. Comply with Laws and Regulations for demolition of structures, protection of adjacent structures, dust control, runoff control, and disposal.
- B. Conform to all applicable procedure when hazardous or contaminated materials are encountered in accordance to risk assessment / abatement report findings provided by certified risk assessors – see attached.
- C. The discovery of hazardous materials shall be communicated to the County's Contracting Agency Project Manager immediately. For each class of hazardous material, the contractor shall provide certification that the building components have been disposed of in accordance with local, state and federal requirement for permanent disposal.
- D. Debris shall be removed to a legal landfill as required by EPA and local regulations.
- E. Should asbestos and/or other hazardous substances be found during inspection, the building demolition and site clean-up will be conducted in a way to be compliance with all federal and state environmental laws and regulations.
- F. This project may require abatement of asbestos containing materials by asbestos abatement contractors licensed to work in the State of North Carolina.

#### *Utilities Location and Verification –*

- A. Contact local Utilities Locator Services prior to any demolition to locate water, gas, electric, cable or phone lines. All utilities must be disconnected from property to be demolished.
- B. The Contractor shall verify whether or not underground storage tanks are present at the project site. If underground tanks are present, the Contractor must notify the proper authorities and County's Contracting Agency Project Manager prior to removal. If septic tank is present, contents must be properly disposed of, the tank crushed in place and back filled in. All work shall comply with local regulatory requirements.

#### *Preparation –*

- C. Provide, erect, and maintain temporary barriers and security devices.
- D. Protect all existing landscape items, appurtenances, and structures which are not scheduled to be demolished. Note that trees over 12" diameter are to remain, unless it is obstructing the actual demolition process. Only debris, trash and manmade materials must be cleared and removed from the site, established vegetation shall remain on the lot.
- E. Prevent movement or settlement of adjacent structures. Provide bracing and shoring as required.

#### *Demolition Requirements –*

- A. Conduct demolition to minimize interference with adjacent structures.
- B. Cease operations immediately if adjacent structures appear to be in danger. Notify the County's Contracting Agency Project Manager.

- C. Spray all work areas with water to minimize dust. Provide hoses, water connections, and water for this purpose.

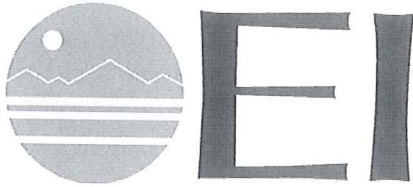
*Demolition –*

- D. Remove entirely: all structures including: footing, foundations, floors, concrete slabs, walls, roof structures, contents, etc. to include concrete or asphalt driveways.  
Remove entirely all demolished materials, debris, trash, manmade materials from the site, established vegetation shall remain on the lot.
- E. Backfilling shall be performed as per the Site Restoration Specifications. **Do not burn or bury any materials on site.**
- F. All refuse removed from the site shall be disposed of at an approved landfill.

Site Restoration Specifications

*Backfilling – Topsoil*

- A. Approved material for backfilling is clean fill dirt. Backfill materials shall be compacted to at least 95% of optimum density.
- B. Install approximately 4” of topsoil at all disturbed areas.
- C. Remove foreign material, weeds, and debris. Also remove any clods, clumps, lumps, boulders, and stones that are not inclusive of the natural state of the site. Grading should be uniform across the lot.



Environmental, Health and Safety Solutions.™



January 27, 2020

Ms. Sylvia H. McLean  
CD Consultant, CDBG-DR  
Cumberland County Community Development  
707 Executive Place  
Fayetteville, North Carolina 28305

RE: Asbestos and Lead Inspection  
290 W. Manchester Rd., Spring Lake, North Carolina  
EI Project No: IHMO200018.00

Dear Ms. Sylvia H. McLean:

The EI Group, Inc. performed a limited asbestos inspection for the residence located at 290 W. Manchester Rd. in Spring Lake, North Carolina. The inspection was performed by Mr. Fabrizio Simoni (NC Asbestos Inspector #12723) on January 21, 2020 and limited to the residence's accessible interior and exterior.

## Findings/Results

### Asbestos

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

- Gypsum Wallboard
- Roofing, Composite Shingle
- Textured Ceiling Material (Popcorn)

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

Lead-Based Paint (LBP)

Of the painted materials tested, none were found above HUD definition of lead-based paint of 1 microgram per square centimetre ( $>1 \text{ mg}/\text{cm}^2$ ) of surface or  $> 0.5\%$  by weight.

Lead-Containing Paint


Of the painted materials tested, none were found to contain lead in concentration great then the laboratories minimum reporting limits (MRP) of 10 ug.

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.

  
Lee B. Clark  
Industrial Hygienist

Appendix A: Chain of Custody & Laboratory Analytical Data

Appendix B: Certifications & Licensure

Appendix C: Sample Location Maps

APPENDIX A: CHAIN OF CUSTODY AND LABORATORY ANALYTICAL DATA



January 24, 2020

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

**CLIENT PROJECT:** Cumberland County, 290 W. Manchester Rd., Spring Lake, North Carolina 28390, IHMO200018.00  
**CEI LAB CODE:** A200657

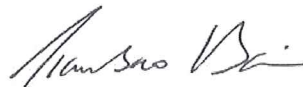
Dear Customer:

Enclosed are asbestos analysis results for PLM Bulk samples received at our laboratory on January 23, 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



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730 SE Maynard Road • Cary, NC 27511 • 919.481.1413



CEI

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**ASBESTOS ANALYTICAL REPORT**  
**By: Polarized Light Microscopy**

Prepared for

**The EI Group**

---

CLIENT PROJECT: Cumberland County, 290 W. Manchester Rd., Spring  
Lake, North Carolina 28390, IHMO200018.00

LAB CODE: A200657

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

REPORT DATE: 01/24/20

TOTAL SAMPLES ANALYZED: 6

# SAMPLES >1% ASBESTOS:



CEI

## Asbestos Report Summary

By: POLARIZING LIGHT MICROSCOPY

PROJECT: Cumberland County, 290 W. Manchester Rd., Spring Lake, North Carolina 28390 · LAB CODE: A200657

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

Client ID	Layer	Lab ID	Color	Sample Description	ASBESTOS %
001A	Layer 1	A10689	Black	Roofing-shingle	None Detected
	Layer 2	A10689	Black	Roofing-felt	None Detected
001B	Layer 1	A10690	Black	Roofing-shingle	None Detected
	Layer 2	A10690	Black	Roofing-felt	None Detected
002A		A10691	White	Textured Ceiling Material	None Detected
002B		A10692	White	Textured Ceiling Material	None Detected
003A		A10693	White	Gypsum Wallboard	None Detected
003B		A10694	White	Gypsum Wallboard	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:** A200657  
**Date Received:** 01-23-20  
**Date Analyzed:** 01-24-20  
**Date Reported:** 01-24-20

**Project:** Cumberland County, 290 W. Manchester Rd., Spring Lake, North Carolina 28390, IHMO200018.00

### ASBESTOS BULK PLM, EPA 600 METHOD

Client ID Lab ID	Lab Description	Lab Attributes	NON-ASBESTOS COMPONENTS			ASBESTOS %
			Fibrous		Non-Fibrous	
001A Layer 1 A10689	Roofing-shingle	Heterogeneous	20%	Fiberglass	15%	None Detected
		Black Non-fibrous Bound			65% Tar	
Layer 2 A10689	Roofing-felt	Heterogeneous	80%	Cellulose	20%	None Detected
		Black Fibrous Bound			Tar	
001B Layer 1 A10690	Roofing-shingle	Heterogeneous	20%	Fiberglass	15%	None Detected
		Black Non-fibrous Bound			65% Tar	
Layer 2 A10690	Roofing-felt	Heterogeneous	80%	Cellulose	20%	None Detected
		Black Fibrous Bound			Tar	
002A A10691	Textured Ceiling Material	Heterogeneous			65%	None Detected
		White			32%	
		Non-fibrous			3%	
		Bound			Paint	
002B A10692	Textured Ceiling Material	Heterogeneous			65%	None Detected
		White			32%	
		Non-fibrous			3%	
		Bound			Paint	
003A A10693	Gypsum Wallboard	Heterogeneous	<1%	Cellulose	100%	None Detected
		White			Gypsum	
		Non-fibrous Bound				

**ASBESTOS BULK ANALYSIS**

By: POLARIZING LIGHT MICROSCOPY

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

**Lab Code:** A200657  
**Date Received:** 01-23-20  
**Date Analyzed:** 01-24-20  
**Date Reported:** 01-24-20

**Project:** Cumberland County, 290 W. Manchester Rd., Spring Lake, North Carolina 28390, IHMO200018.00

**ASBESTOS BULK PLM, EPA 600 METHOD**

Client ID Lab ID	Lab Description	Lab Attributes	NON-ASBESTOS COMPONENTS		ASBESTOS %
			Fibrous	Non-Fibrous	
003B A10694	Gypsum Wallboard	Heterogeneous White Non-fibrous Bound	<1% Cellulose	100% Gypsum	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

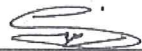
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Due to the limitations of the EPA 600 method, nonfriable organically bound materials (NOBs) such as vinyl floor tiles can be difficult to analyze via polarized light microscopy (PLM). EPA recommends that all NOBs analyzed by PLM, and found not to contain 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.*

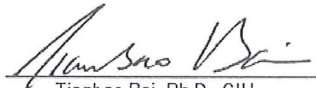
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Information provided by customer includes customer sample ID and sample description.

ANALYST: \_\_\_\_\_

  
Saithya Painkal

APPROVED BY: \_\_\_\_\_

  
Tianbao Bai, Ph.D., CIH  
Laboratory Director





The EI Group, Inc.  
2101 Gateway Centre Boulevard, Suite 200  
Morrisville, North Carolina 27560



A200057  
A10089-A10094  
CLT4Z8

**Chain of Custody**

Laboratory: Eurofins CEI  
Project: IHMO200018.00  
Site Location: Cumberland County  
290 W. Manchester Rd.  
Spring Lake, North Carolina 28390  
Sampled By: Lee Clark (lclark@ei1.com)  
Reporting By: Kristen Switzer (kswitzer@ei1.com)  
Purpose: NESHAP Compliance (Pre-Renovation/Pre-Demolition)

**Laboratory Notes**

Stop after first positive for each HM

**Turn-Around Time Request**

Standard

**Samples**

Sample ID	Material	Floor / Section	Space	Analysis
001A	001 - Roofing, Composite Shingle	Unassigned	Roof	EPA Test Method 600/R-93/116 (PLM)
001B	001 - Roofing, Composite Shingle	Unassigned	Roof	EPA Test Method 600/R-93/116 (PLM)
002A	002 - Textured Ceiling Material (Popcorn)	Unassigned	Room 3	EPA Test Method 600/R-93/116 (PLM)
002B	002 - Textured Ceiling Material (Popcorn)	Unassigned	Room 3	EPA Test Method 600/R-93/116 (PLM)
003A	003 - Gypsum Wallboard	Unassigned	Halfway	EPA Test Method 600/R-93/116 (PLM)
003B	003 - Gypsum Wallboard	Unassigned	Room 2	EPA Test Method 600/R-93/116 (PLM)

EUROFINS CEI, INC.  
SAMPLES ACCEPTED

CS

AD0057

Sampled By	Date	Time
------------	------	------

Received By	Date	Time
Relinquished By	Date	Time

Received By	Date	Time
Relinquished By	Date	Time

Received By	Date	Time
Relinquished By	Date	Time

Analysis By	Date	Time
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APPENDIX C: LOCATION MAP

