Initial Application Date: 3/2/2022 Application # _____

COUNTY OF HARNETT DEMOLITION APPLICATION

Central Permitting 108 E. Front Street, Lillington, NC 27546 Phone: (910) 893-7525 Fax: (910) 893-2793 www.harnett.org/permits

LANDOWNER: Harnett County Board of Education Mailing Address: 1008 South 11th Street

City: Lillington State: NC Zip: 27546 Contact # _____ Email: afleming@harnett.k12.nc.us

APPLICANT*: Mahan Kick, AIA Mailing Address: 333 Fayetteville Street, Suite 225,

City: Raleigh State: NC Zip: 27601 Contact # 919-573-6350 Email: mkick@sfla.biz

*Please fill out applicant information if different than landowner

CONTACT NAME APPLYING IN OFFICE: _____ Phone # _____

PROPERTY LOCATION: Subdivision: _____ Lot #: _____ Lot Size: 14.66Ac

State Road # _____ State Road Name: NC 27 W Map Book&Page: _____ / _____

Parcel: PID 09957603 9000 PIN: 9576-04-7025.000

Zoning: RA-20R Flood Zone: Minimal Flood risk Watershed: NO Deed Book&Page: 360 / 0412

SPECIFIC DIRECTIONS TO THE PROPERTY FROM LILLINGTON: NC 27 W, past the Hwy 87 overpass. School on left.

Structure(s) to be demolished & removed: Other (specify) Demolish **8,916** sf – 1954 6-Classroom wing and connector corridors. **Abatement is required.**

Structures (existing and/or proposed): Other (specify) **NEW 10-Classroom wing & connector corridors – 17,405 sf**

Water Supply: (**X**) County (__) Existing Well

Sewage Supply: (__) Existing Septic Tank (**X**) County Sewer

* If a new structure is to be replaced on this lot, please ensure that existing septic system is not damaged.

* If an existing well is on site and is to be discontinued, please contact Harnett County Environmental Health for assistance.

*Upon the issuance of the Certificate of Compliance, the Harnett County Tax Department shall be notified of the removal to ensure proper listing.

*The demolition contractor is responsible for submitting verification of proper disposal prior to the Final inspection.

PLEASE NOTE Failure to completely demolish, remove, and clear the premises will result in the withholding of the Certificate of Compliance. Thus, future permits for the property will be denied, and fines may be imposed for failure to complete demolition/ removal.

If permits are granted I agree to conform to all ordinances and laws of the State of North Carolina regulating such work and the specifications of plans submitted. I hereby state that foregoing statements are accurate and correct to the best of my knowledge. Permit subject to revocation if false information is provided.

_____ _____

Signature of Owner or Owner's Agent **Date**

****This application expires 6 months from the initial date if no permits have been issued****

Asbestos requirements are applicable if the occupancy use is or changes to Commercial (not residential), or if multiple structures are being demolished & removed at one time.

See attached test report and abatement plan.

Johnsonville E.S. Building 2 NESHAP ACM and LP Survey Report

An Asbestos Inspection Report prepared by an N.C. Accredited Asbestos Inspector must be provided with application to demolish any building including residences demolished for commercial or industrial expansion or structures. It is the contractor's responsibility to properly notify the Department of Health and Human Services Division of Public Health – Health Hazards Control Unit at least ten (10) working days before the demolition is to begin whether or not the building is known to contain asbestos.

I hereby certify that the information on this application is correct and that all work in connection with the above referenced job will be performed under my supervision and that such work complies with the requirements of the NC State Building Codes and applicable Harnett County Ordinances. Call for inspection at proper stage of work.

CONTRACTOR / APPLICANT	DATE	LICENSE NO. (If applicable)

Please contact the Department of Health and Human Services for their requirements and permit information.

http://www.epi.state.nc.us/epi/asbestos/ahmp.html

November 30, 2021

Harnett County Schools
1008 S. 11th Street
Lillington, North Carolina 27546

Attn: Dr. Aaron Fleming – Superintendent
P: (910) 893-8151
E: afleming@harnett.k12.nc.us

Re: NESHAP Asbestos and Lead Paint Survey Report
Johnsonville Elementary School – Building 2
18495 NC-27
Cameron, North Carolina 28326
Terracon Project No. 70217436

Dear Mr. Fleming:

The purpose of this report is to present the results of the NESHAP asbestos and lead paint survey performed on November 3, 2021, on Building 2 of the Johnsonville Elementary School located at 18495 NC-27 in Cameron, North Carolina. This survey was conducted in general accordance with Terracon proposal number P70217436, dated June 28, 2021. We understand that these services were requested prior to demolition of Building 2.

Asbestos was detected in samples collected from the building. **Lead was detected** above laboratory reporting limits in samples collected. Please refer to the attached report for details.

Terracon appreciates the opportunity to provide these services to Harnett County Schools. If you have any questions regarding this report, please contact the undersigned at (919) 873-2211.

Sincerely,
Terracon Consultants Inc.

Cory Edwards
EH&S Department Manager

Russell Harrings, CIH
Authorized Project Reviewer

NESHAP ASBESTOS AND LEAD PAINT SURVEY REPORT

Johnsonville Elementary School – Building 2
18495 NC-27
Cameron, North Carolina 28326
November 30, 2021
Terracon Project No. 70217436

Prepared For:
Harnett County Schools
Lillington, North Carolina

Prepared By:
Terracon Consultants, Inc.
Raleigh, North Carolina

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NESHAP ASBESTOS AND LEAD PAINT SURVEY REPORT

JOHNSONVILLE ELEMENTARY SCHOOL – BUILDING 2
18495 NC-27
CAMERON, NORTH CAROLINA 28326
Terracon Project No. 70217436
November 30, 2021

1.0 INTRODUCTION

Terracon Consultants, Inc. (Terracon) conducted a NESHAP asbestos and lead paint survey of Building 2 at Johnsonville Elementary School located at 18495 NC-27 in Cameron, North Carolina. The survey was conducted on November 3, 2021, by State of North Carolina Accredited Asbestos Building Inspectors in general accordance Terracon proposal number P70217436, dated June 28, 2021.

Building components were visually assessed and homogeneous areas of suspect asbestos-containing materials (ACM) and suspect lead paint coatings were identified and documented. ACM samples were collected in general accordance with the sampling protocols outlined in Environmental Protection Agency (EPA) regulation 40 CFR 763 (Asbestos Hazard Emergency Response Act, AHERA). Suspect ACM samples were delivered to an accredited laboratory for analysis by Polarized Light Microscopy (PLM).

In addition to the asbestos survey, Terracon conducted a lead-containing paint survey. Paint chip samples were collected from representative surfaces and delivered to an accredited laboratory to perform total lead analysis by Flame Atomic Absorption Spectrophotometry (Flame AAS).

1.1 Project Objective

We understand this NESHAP asbestos and lead paint survey was requested due to the planned demolition of the building. EPA regulation 40 CFR 61, Subpart M, National Emission Standards for Hazardous Air Pollutants (NESHAP), prohibits the release of asbestos fibers to the atmosphere during renovation or demolition activities. The asbestos NESHAP requires that potentially regulated ACM be identified, classified and quantified prior to planned disturbances, renovation or demolition activities.

The Occupational Health and Safety Administration (OSHA) has promulgated a worker protection standard for the disturbance of lead-containing paints during demolition projects. The limited lead paint sampling was performed to meet informational needs to comply with the OSHA Lead in Construction Standard (29 CRF 1926.62). Currently, proposed renovations or demolition activities which may impact lead paint is subject to OSHA regulation 29 CFR 1926.62 – Lead Exposure in Construction.

2.0 BUILDING DESCRIPTION

Building 2 of Johnsonville Elementary Schools is an approximately 7,000-square foot building with an unknown construction date. The building is a single-story wood-framed structure on a slab foundation. The exterior of the building is finished with brick. The main roof is a flat, rubber membrane roof.

3.0 FIELD ACTIVITIES

3.1 Asbestos

The survey was conducted by state of North Carolina Accredited Asbestos Building Inspectors Alicia Coley (NC Accredited Asbestos Inspector Number 12548) and Cory Edwards (NC Accredited Asbestos Inspector Number 12677). The survey was conducted in general accordance with the sample collection protocols established in EPA regulation 40 CFR 763 (AHERA). Copies of applicable accreditations are included in Appendix G. A summary of survey activities is provided below.

3.1.1 Visual Assessment

Our survey activities began with visual observation of building materials to identify homogeneous areas of suspect ACM. A homogeneous area consists of building materials that appear similar throughout in terms of color, texture and date of application. The assessment was conducted throughout visually accessible areas of the building. Building materials identified as concrete, glass, wood, masonry, metal or rubber were not considered suspect ACM.

3.1.2 Physical Assessment

A physical assessment of each homogeneous area of suspect ACM was conducted to assess the friability and condition of the materials. A friable material is defined by the EPA as a material, which can be crumbled, pulverized or reduced to powder by hand pressure when dry. Friability was assessed by physically touching suspect materials.

3.1.3 Sample Collection

Based on results of our visual observations, bulk samples of suspect ACM were collected in general accordance with AHERA sampling protocols. Random samples of suspect materials were collected in each homogeneous area. Samples were placed in sealable containers and labeled with unique sample numbers using an indelible marker.

Terracon collected 51 bulk samples from 17 homogeneous areas of suspect ACM. A summary of suspect ACM samples collected during the survey is included as Appendix A. Photographs are included as Appendix F.

3.1.4 Sample Analysis

Bulk samples were submitted under chain of custody to EMSL Analytical, Inc. (EMSL) of Morrisville, North Carolina for analysis by PLM with dispersion staining techniques per EPA's Method for the Determination of Asbestos in Bulk Building Materials (600/R-93-116). The percentage of asbestos, where applicable, was determined by microscopic visual estimation. EMSL is accredited under the National Voluntary Laboratory Accreditation Program NVLAP (Accreditation Number 200671-0). Seventy-six bulk sample layers were analyzed. The asbestos laboratory analytical report is provided in Appendix C.

3.2 Lead Paint Sampling

The lead paint sampling was conducted by Alicia Coley and Cory Edwards of Terracon. Paint chip samples were collected from homogenous painted surfaces identified to determine its lead content, measured by percent by weight. Suspect lead paint samples were collected in general accordance with the EPA's work practice standards for conducting lead paint activities (40 CFR 745.227). Currently, proposed renovation and demolition activities that could potentially disturb lead paint are subject to the OSHA regulations (29 CFR 1926.62 – Lead).

The lead paint sampling began with the Terracon representatives walking the structure, observing painted surfaces, and selecting sample locations. After the sampling strategy was determined, Terracon collected 17 paint chip samples from homogeneous surfaces.

Paint chip samples were submitted under a chain of custody to Scientific Analytical Institute, Inc. (SAI) of Greensboro, North Carolina. Paint chip samples were analyzed by Flame Atomic Absorption Spectrophotometry method SW846-3050B/6010C/7000B. SAI is an American Industrial Hygiene Association (AIHA) Environmental Lead Proficiency Analytical Testing (ELPAT) accredited laboratory (ELPAT, Lab Code 173190), to perform Flame Atomic Absorption Spectrophotometry analysis. A summary of the paint chip samples collected during the survey is presented in Appendix D. The lead paint laboratory analytical report is provided in Appendix E.

4.0 REGULATORY OVERVIEW

4.1 Asbestos

The following sections provide a general overview to the applicable asbestos regulations. Please refer to the complete current regulation in order to verify compliance before any actions are initiated on an ACM.

4.1.1 NESHAP

The asbestos NESHAP (40 CFR Part 61, Subpart M) regulates asbestos fiber emissions and asbestos waste disposal practices. It also requires the identification and classification of existing building materials prior to demolition or renovation activities. Under NESHAP, asbestos-containing building materials are classified as either friable, Category I non-friable or Category II non-friable

ACM. Friable materials are those that, when dry, may be crumbled, pulverized or reduced to powder by hand pressure. Category I non-friable ACM includes packings, gaskets, resilient floor coverings and asphalt roofing products containing more than 1% asbestos. Category II non-friable ACM are any non-friable materials other than Category I materials that contain more than 1% asbestos.

Friable ACM, Category I and Category II non-friable ACM which is in poor condition and has become friable or which will be subjected to drilling, sanding, grinding, cutting or abrading and which could be crushed or pulverized during anticipated renovation or demolition activities are considered regulated ACM (RACM).

4.1.2 North Carolina State Regulations

In the state of North Carolina, asbestos activities are regulated by the North Carolina Department of Health and Human Services, Health Hazards Control Unit (HHCU) under 10A NCAC 41C Section .0600 – Asbestos Hazard Management Program (AHMP). The AHMP requires that any asbestos-related activity conducted in a public building be performed by personnel accredited by the HHCU.

Asbestos abatement must be conducted under the direct supervision of a North Carolina accredited supervisor, except that permitted removals of roofing products may be conducted under the direct supervision of a North Carolina accredited roofing supervisor. An asbestos abatement design must be prepared by a North Carolina accredited abatement designer for each individually permitted removal of more than 3000 square feet (281 square meters), 1500 linear feet (462 meters) or 656 cubic feet (18 cubic meters), of regulated asbestos containing materials conducted in public areas. Third-party air monitoring must be conducted during the abatement activities in accordance with AHMP requirements.

AHMP requires that no person remove more than 35 cubic feet (1 cubic meter), 160 square feet (15 square meters), or 260 linear feet (80 linear meters) of regulated asbestos containing material, without a permit issued by the HHCU. Applications must be postmarked or received by the HHCU at least 10 working days prior to the scheduled removal start date.

4.1.3 OSHA

OSHA's general industry asbestos standard (29 CFR 1910.1001) requires employers to exercise due diligence in complying with the requirements to inform their employees and affected contractors working in the facility about the presence and location of both ACM and materials assumed to contain asbestos.

The OSHA Asbestos standard for construction (29 CFR 1926.1101) regulates workplace exposure to asbestos during construction and maintenance activities. The standard classifies construction and maintenance activities which could disturb ACM, and specifies work practices and precautions which employers must follow when engaging in each class of regulated work. States which administer their own federally-approved state OSHA programs may require additional precautions.

A full copy of the OSHA asbestos standard for general and construction industry may be found at OSHA's website (www.osha.gov) and should be referenced for specific information.

4.2 Lead Paint

The lead paint sampling activities were conducted in general accordance with the EPA's work practice standards for conducting lead paint activities (40 CFR 745, and State and local regulations) to meet informational needs to comply with the OSHA Lead in Construction Standard. Lead is regulated by the Environmental Protection Agency (EPA) and the Occupational Safety and Health Administration (OSHA).

The Resource Conservation and Recovery Act (RCRA) gave the USEPA authority to regulate the waste status of demolition or renovation debris, including lead-containing materials. Specific notification and testing requirements must be addressed prior to transporting, treating, storing, or disposing of hazardous wastes. Lead containing wastes are considered hazardous waste under RCRA if Toxicity Characteristic Leaching Procedure (TCLP) results exceed 5 milligrams per liter (mg/L). EPA exempts from most RCRA requirements those generators whose combined hazardous waste generation is less than 100 kilograms (kg) per month.

Detectable lead quantities may constitute a lead dust hazard during renovation/demolition activities. Personnel performing renovation/demolition activities that may disturb painted components with concentrations of lead above the designated analytical detection limit should comply with all current OSHA regulations in order to minimize employee exposure. OSHA defines lead paint as a paint, which contains lead, regardless of the concentration. Currently, any proposed renovation/demolition is subject to the OSHA regulations (29 CFR 1926.62 – Lead). The OSHA regulation defines specific training requirements, engineering controls and working practices for construction personnel subject to this standard. Occupational exposure to lead occurring in the course of construction work, including maintenance activities, painting, alteration and repairs is subject to the OSHA Lead Exposure in Construction standard.

Construction work covered by 29 CFR 1926.62 includes any repair or renovation activities or other activities that disturb in-place lead-containing materials, but does not include routine cleaning and repainting where there is insignificant damage, wear, or corrosion of existing lead-containing coatings or substrates. Employers must assure that no employee will be exposed to lead at concentrations greater than 50 micrograms per cubic meter ($\mu g/m^3$) averaged over an eight-hour period without adequate protection. The OSHA Standard also establishes an action level of 30 $\mu g/m^3$ which if exceeded triggers the requirement for medical monitoring.

The above overview is not intended to be inclusive of all potentially pertinent regulatory information. The relevant EPA and OSHA standards should be consulted prior to undertaking activities involving the demolition, renovation, or maintenance of surfaces coated with lead-based paints.

5.0 FINDINGS AND RECOMMENDATIONS

5.1 Asbestos

Asbestos **was identified** at concentrations greater than 1% in the following materials:

- Light gray flashing mastic
- Mastic associated with 12”x12” cream with cream and gray specks floor tile
- Mastic associated with 12”x12” white with light and dark specks floor tile
- 9”x9” brown with black and white streaks floor tile and associated mastic

Asbestos was identified at concentrations less than or equal to 1% in the following materials:

- Window glazing
- 12”x12” cream with cream and gray specks floor tile

If additional suspect material is found during renovation activities, they should be assumed to contain asbestos until laboratory analysis can confirm or deny their asbestos content. If the final scope of work changes to include areas or materials other than those sampled during this sampling event, additional investigations will be necessary.

Terracon recommends that the identified ACM be removed and disposed of by a State of North Carolina licensed asbestos abatement contractor prior to renovation if it will be disturbed. Materials containing less than or equal to 1% asbestos should be removed by OSHA trained personnel in accordance with OSHA regulations if they will be disturbed. We understand as part of the next phase of this project, an abatement specification may be developed to address the handling of identified asbestos-containing materials for the selected renovations.

Please refer to Appendix B for specific materials and locations of the identified, assumed, and less than or equal to 1% asbestos ACM. A summary of suspect materials sampled is provided in Appendix A. Laboratory analytical reports are provided in Appendix C. Photographs are provided in Appendix F.

5.2 Lead Paint

Lead **was detected** above laboratory reporting limits in 15 of the 17 paint samples collected as listed below:

- White paint on metal fascia – exterior
- White paint on wood soffit – exterior
- White paint on metal windows – exterior
- White paint on metal gutter downspouts – exterior
- Black paint on wood door frame – exterior
- Beige paint on wood door frame – exterior

- Beige paint on wood door frame – interior
- Beige paint on metal cast iron pipe – interior
- Beige paint on metal radiator – interior
- Beige paint on metal I-beam – interior
- White paint on pressboard ceiling – interior
- Tan paint on CMU block walls – interior
- Beige paint on wood door frame – interior
- Gray paint on metal steam pipe – interior
- Beige paint on metal windows - interior

A summary of the paint chip samples collected during the survey is presented in Appendix D. The lead paint laboratory analytical report is provided in Appendix E.

Contractors should be made aware of the presence of the identified lead coatings, so that they may maintain compliance with worker protection regulations, employ lead-safe work practices, and/or conduct a negative exposure assessment per OSHA (29 CFR 1926.62 – Lead Exposure in Construction). These paints may be subject to other testing and requirements for disposal.

6.0 GENERAL COMMENTS

This limited asbestos and lead paint survey was conducted in a manner consistent with the level of care and skill ordinarily exercised by members of the profession currently practicing under similar conditions in the same locale. The results, findings, conclusions and recommendations expressed in this report are based on conditions observed during our survey of the building.

This report has been prepared on behalf of and exclusively for use by Harnett County Schools for specific application to their project as discussed. This report is not a bidding document. Contractors or consultants reviewing this report must draw their own conclusions regarding further investigation or remediation deemed necessary. Terracon does not warrant the work of regulatory agencies, laboratories or other third parties supplying information, which may have been used in the preparation of this report. No warranty, expressed or implied is made.

APPENDIX A

ASBESTOS SURVEY SAMPLE SUMMARY

Appendix A

ASBESTOS SURVEY SAMPLE SUMMARY
Johnsonville Elementary School - Building 2
18495 NC-27
Cameron, North Carolina
Terracon Project No. 70217436

HA	Sample No.	Description	Sample Location	Lab Results
1	JE-01	Modified Bitumen Roofing	Roof - Under EPDM Rubber	Roofing 1: None Detected Roofing 2: None Detected Roofing 3: None Detected Roofing 4: None Detected
1	JE-02	Modified Bitumen Roofing	Roof - Under EPDM Rubber	Roofing 1: None Detected Roofing 2: None Detected Roofing 3: None Detected Roofing 4: None Detected
1	JE-03	Modified Bitumen Roofing	Roof - Under EPDM Rubber	Roofing 1: None Detected Roofing 2: None Detected Roofing 3: None Detected Roofing 4: None Detected
2	JE-04	Light Gray Flashing Mastic	Roof - at Gym	**10% Chrysotile**
2	JE-05	Light Gray Flashing Mastic	Roof - at Gym	**Positive Stop**
2	JE-06	Light Gray Flashing Mastic	Roof - at Gym	**Positive Stop**
3	JE-07	Dark Gray Flashing Mastic	Roof - at Gym	None Detected
3	JE-08	Dark Gray Flashing Mastic	Roof - at Gym	None Detected
3	JE-09	Dark Gray Flashing Mastic	Roof - at Gym	None Detected
4	JE-10	Cream Colored Roof Patch	Roof - at Gym	Roof Patch 1: None Detected Roof Patch 2: None Detected
4	JE-11	Cream Colored Roof Patch	Roof - at Gym	Roof Patch 1: None Detected Roof Patch 2: None Detected
4	JE-12	Cream Colored Roof Patch	Roof - at Gym	None Detected
5	JE-13	Window Glazing	South Side	None Detected
5	JE-14	Window Glazing	South Side	<1% Chrysotile Point Count: <0.25%
5	JE-15	Window Glazing	North Side	None Detected
6	JE-16	White Caulk	Gutter - South	None Detected
6	JE-17	White Caulk	Gutter - South	None Detected
6	JE-18	White Caulk	Gutter - South	None Detected
7	JE-19	White Caulk	Exterior - Metal Frame Doors	None Detected
7	JE-20	White Caulk	Exterior - Metal Frame Doors	None Detected
7	JE-21	White Caulk	Exterior - Metal Frame Doors	None Detected
8	JE-22	White Caulk	Exterior - Wood Frame Doors	None Detected
8	JE-23	White Caulk	Exterior - Wood Frame Doors	None Detected
8	JE-24	White Caulk	Exterior - Wood Frame Doors	None Detected
9	JE-25	6" Black Cove Base	Enclosed Breezeway	Cove Base: None Detected Mastic: None Detected
9	JE-26	6" Black Cove Base	Enclosed Breezeway	Cove Base: None Detected Mastic: None Detected
9	JE-27	6" Black Cove Base	Enclosed Breezeway	Cove Base: None Detected Mastic: None Detected
10	JE-28	12"x12" Cream w/Cream & Gray Specks Floor Tile	Enclosed Breezeway	Floor Tile: <1% Chrysotile **Mastic: 5% Chrysotile**
10	JE-29	12"x12" Cream w/Cream & Gray Specks Floor Tile	Hallway at Breezeway	Floor Tile: <1% Chrysotile **Mastic: Positive Stop**
10	JE-30	12"x12" Cream w/Cream & Gray Specks Floor Tile	Hallway at Water Fountain	Floor Tile: <1% Chrysotile **Mastic: Positive Stop**
11	JE-31	4" Black Cove Base	Hallway - East	Cove Base: None Detected Mastic: None Detected
11	JE-32	4" Black Cove Base	Hallway at Water Fountain	Cove Base: None Detected Mastic: None Detected

Appendix A

ASBESTOS SURVEY SAMPLE SUMMARY
Johnsonville Elementary School - Building 2
18495 NC-27
Cameron, North Carolina
Terracon Project No. 70217436

HA	Sample No.	Description	Sample Location	Lab Results
11	JE-33	4" Black Cove Base	Hallway - West	Cove Base: None Detected Mastic: None Detected
12	JE-34	12" White w/Light & Dark Specks Floor Tile	Hallway	Floor Tile: None Detected **Mastic: 5% Chrysotile**
12	JE-35	12" White w/Light & Dark Specks Floor Tile	Hallway	Floor Tile: None Detected **Mastic: Positive Stop**
12	JE-36	12" White w/Light & Dark Specks Floor Tile	Hallway	Floor Tile: None Detected **Mastic: Positive Stop**
13	JE-37	Mosaic Tile Grout & Mortar	Classroom #2 - Kid's Restroom	Tile: None Detected Grout: None Detected Mortar: None Detected
13	JE-38	Mosaic Tile Grout & Mortar	Classroom #2 - Adult's Restroom	Tile: None Detected Grout: None Detected Mortar: None Detected
13	JE-39	Mosaic Tile Grout & Mortar	Classroom #3 - Kid's Restroom	Tile: None Detected Grout: None Detected Mortar: None Detected
14	JE-40	Chalkboard Mastic on Brown Skim Coat	Classroom #5 (Cafeteria)	Mastic: None Detected Skim Coat: None Detected
14	JE-41	Chalkboard Mastic on Brown Skim Coat	Classroom #5 (Cafeteria)	Mastic: None Detected Skim Coat: None Detected
14	JE-42	Chalkboard Mastic on Brown Skim Coat	Classroom #5 (Cafeteria)	Mastic: None Detected Skim Coat: None Detected
15	JE-43	9"x9" Brown w/Black & White Streaks Floor Tile	Classroom #5 (Cafeteria)	**Floor Tile: 2% Chrysotile** **Mastic: 5% Chrysotile**
15	JE-44	9"x9" Brown w/Black & White Streaks Floor Tile	Classroom #5 (Cafeteria)	**Floor Tile: Positive Stop** **Mastic: Positive Stop**
15	JE-45	9"x9" Brown w/Black & White Streaks Floor Tile	Classroom #5 (Cafeteria)	**Floor Tile: Positive Stop** **Mastic: Positive Stop**
16	JE-46	Red Fire Caulk	Hallway	None Detected
16	JE-47	Red Fire Caulk	Breezeway	None Detected
16	JE-48	Red Fire Caulk	Breezeway	None Detected
17	JE-49	White Caulk	Exterior - Windows at Brick	None Detected
17	JE-50	White Caulk	Exterior - Windows at Brick	None Detected
17	JE-51	White Caulk	Exterior - Windows at Brick	None Detected

*Highlighted and bolded samples indicate materials with >1% asbestos.

*Highlighted samples indicate materials with <1% asbestos.

APPENDIX B

MATERIALS CONTAINING ASBESTOS SUMMARY

Appendix B

MATERIALS CONTAINING ASBESTOS SUMMARY
Johnsonville Elementary School - Building 2
18495 NC-27
Cameron, North Carolina
Terracon Project No. 70217436

MATERIALS CONTAINING GREATER THAN 1% ASBESTOS

HA	Sample No.	Description	Material Location	NESHAP Classification	Percent/Type Asbestos	Condition	Estimated Quantity*
2	JE-04 JE-05 JE-06	Light Gray Flashing Mastic	Roof at Gym	Category I Non-Friable	10% Chrysotile	Good	50 Linear Feet
10	JE-28 JE-29 JE-30	Mastic Associated with 12"x12" Cream w/Cream & Gray Specks Floor Tile	Throughout	Category I Non-Friable	Mastic: 5% Chrysotile Floor Tile: <1%	Good	5,915 Square Feet
12	JE-34 JE-35 JE-36	Mastic Associated with 12"x12" White w/Light & Dark Specks Floor Tile	Hallway	Category I Non-Friable	5% Chrysotile	Good	25 Square Feet
15	JE-43 JE-44 JE-45	9"x9" Brown w/Black & White Streaks Floor Tile and Mastic	Classrooms Under Built-In Cabinets	Category I Non-Friable	Floor Tile: 2% Chrysotile Mastic: 5% Chrysotile	Good	360 Square Feet

MATERIALS CONTAINING LESS THAN OR EQUAL TO 1% ASBESTOS

5	JE-14	Window Glazing	Exterior Windows	N/A	<0.25% Chrysotile	Good	50 Windows

Note: All quantities should be verified by the asbestos abatement contractor.

APPENDIX C

ASBESTOS LABORATORY ANALYTICAL REPORT

EMSL Analytical, Inc.

2500 Gateway Centre Blvd., Suite 600 Morrisville, NC 27560

Tel/Fax: (919) 465-3900 / (919) 465-3950

http://www.EMSL.com / raleighlab@emsl.com

EMSL Order:	292110624
Customer ID:	TITA51
Customer PO:	70217436
Project ID:	

Attention:	Cory Edwards	**Phone:**	(919) 873-2211
	Terracon Consultants, Inc.	**Fax:**	(919) 873-9555
	2401 Brentwood Road	**Received Date:**	11/04/2021 5:10 PM
	Suite 107	**Analysis Date:**	11/10/2021 - 11/11/2021
	Raleigh, NC 27604	**Collected Date:**	
Project:	Johnsonville E.S. - Bldg 2, Cameron, NC		

Test Report: Asbestos Analysis of Bulk Materials via EPA 600/R-93/116 Method using Polarized Light Microscopy

			Non-Asbestos		Asbestos
Sample	**Description**	**Appearance**	**% Fibrous**	**% Non-Fibrous**	**% Type**
JE-01-Roofing 1 *292110624-0001*	Roof - Under EPDM Rubber - Modified Bitumen Roofing	Brown/Gray Fibrous Homogeneous	65% Cellulose 20% Glass	15% Non-fibrous (Other)	None Detected
JE-01-Roofing 2 *292110624-0001A*	Roof - Under EPDM Rubber - Modified Bitumen Roofing	Yellow Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
JE-01-Roofing 3 *292110624-0001B*	Roof - Under EPDM Rubber - Modified Bitumen Roofing	Black Fibrous Homogeneous	20% Synthetic	20% Ca Carbonate 60% Non-fibrous (Other)	None Detected
JE-01-Roofing 4 *292110624-0001C*	Roof - Under EPDM Rubber - Modified Bitumen Roofing	Black Fibrous Homogeneous	40% Cellulose	20% Ca Carbonate 40% Non-fibrous (Other)	None Detected
JE-02-Roofing 1 *292110624-0002*	Roof - Under EPDM Rubber - Modified Bitumen Roofing	Brown/Gray Fibrous Homogeneous	65% Cellulose 20% Glass	15% Non-fibrous (Other)	None Detected
JE-02-Roofing 2 *292110624-0002A*	Roof - Under EPDM Rubber - Modified Bitumen Roofing	Yellow Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
JE-02-Roofing 3 *292110624-0002B*	Roof - Under EPDM Rubber - Modified Bitumen Roofing	Black Fibrous Homogeneous	20% Synthetic	20% Ca Carbonate 60% Non-fibrous (Other)	None Detected
JE-02-Roofing 4 *292110624-0002C*	Roof - Under EPDM Rubber - Modified Bitumen Roofing	Black Fibrous Homogeneous	40% Cellulose	20% Ca Carbonate 40% Non-fibrous (Other)	None Detected
JE-03-Roofing 1 *292110624-0003*	Roof - Under EPDM Rubber - Modified Bitumen Roofing	Brown/Black Fibrous Homogeneous	65% Cellulose 10% Glass	25% Non-fibrous (Other)	None Detected
JE-03-Roofing 2 *292110624-0003A*	Roof - Under EPDM Rubber - Modified Bitumen Roofing	Yellow Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
JE-03-Roofing 3 *292110624-0003B*	Roof - Under EPDM Rubber - Modified Bitumen Roofing	Black Fibrous Homogeneous	25% Cellulose 5% Synthetic	10% Ca Carbonate 60% Non-fibrous (Other)	None Detected
JE-03-Roofing 4 *292110624-0003C*	Roof - Under EPDM Rubber - Modified Bitumen Roofing	Black Fibrous Homogeneous	30% Cellulose	70% Non-fibrous (Other)	None Detected
JE-04 *292110624-0004*	Roof - at Gym - Light Gray Flashing Mastic	Gray/Black Fibrous Homogeneous		25% Ca Carbonate 65% Non-fibrous (Other)	10% Chrysotile
JE-05 *292110624-0005*	Roof - at Gym - Light Gray Flashing Mastic				Positive Stop (Not Analyzed)
JE-06 *292110624-0006*	Roof - at Gym - Light Gray Flashing Mastic				Positive Stop (Not Analyzed)
JE-07 *292110624-0007*	Roof - at Gym - Dark Gray Flashing Mastic	Gray/Black Non-Fibrous Homogeneous		10% Ca Carbonate 90% Non-fibrous (Other)	None Detected

Initial report from: 11/11/2021 16:05:27

EMSL Analytical, Inc.
2500 Gateway Centre Blvd., Suite 600 Morrisville, NC 27560
Tel/Fax: (919) 465-3900 / (919) 465-3950
http://www.EMSL.com / raleighlab@emsl.com

EMSL Order:	292110624
Customer ID:	TITA51
Customer PO:	70217436
Project ID:	

Test Report: Asbestos Analysis of Bulk Materials via EPA 600/R-93/116 Method using Polarized Light Microscopy

			Non-Asbestos		Asbestos
Sample	**Description**	**Appearance**	**% Fibrous**	**% Non-Fibrous**	**% Type**
JE-08 *292110624-0008*	Roof - at Gym - Dark Gray Flashing Mastic	Gray/Black Non-Fibrous Homogeneous		10% Ca Carbonate 90% Non-fibrous (Other)	None Detected
JE-09 *292110624-0009*	Roof - at Gym - Dark Gray Flashing Mastic	Black Non-Fibrous Homogeneous		10% Ca Carbonate 90% Non-fibrous (Other)	None Detected
JE-10-Roof Patch 1 *292110624-0010* .	Roof - at Gym - Cream Colored Roof Patch	Beige Non-Fibrous Homogeneous		10% Ca Carbonate 90% Non-fibrous (Other)	None Detected
JE-10-Roof Patch 2 *292110624-0010A*	Roof - at Gym - Cream Colored Roof Patch	Black/Green Fibrous Homogeneous	2% Wollastonite	5% Ca Carbonate 93% Non-fibrous (Other)	None Detected
JE-11-Roof Patch 1 *292110624-0011*	Roof - at Gym - Cream Colored Roof Patch	Beige Non-Fibrous Homogeneous		10% Ca Carbonate 90% Non-fibrous (Other)	None Detected
JE-11-Roof Patch 2 *292110624-0011A*	Roof - at Gym - Cream Colored Roof Patch	Black/Green Fibrous Homogeneous	2% Wollastonite	5% Ca Carbonate 93% Non-fibrous (Other)	None Detected
JE-12 *292110624-0012*	Roof - at Gym - Cream Colored Roof Patch	Gray Fibrous Homogeneous		10% Ca Carbonate 90% Non-fibrous (Other)	None Detected
JE-13 *292110624-0013* *HA 5 sample group is not homogeneous.*	South Side - Window Glazing	Gray/White Fibrous Homogeneous	2% Wollastonite 2% Fibrous (Other)	25% Ca Carbonate 71% Non-fibrous (Other)	None Detected
JE-14 *292110624-0014*	South Side - Window Glazing	White Non-Fibrous Homogeneous	<1% Wollastonite	25% Ca Carbonate 75% Non-fibrous (Other)	<1% Chrysotile
JE-15 *292110624-0015*	North Side - Window Glazing	White Fibrous Homogeneous	3% Wollastonite	25% Ca Carbonate 72% Non-fibrous (Other)	None Detected
JE-16 *292110624-0016*	Gutter - South - White Caulk	White/Black Non-Fibrous Homogeneous		10% Ca Carbonate 90% Non-fibrous (Other)	None Detected
JE-17 *292110624-0017*	Gutter - South - White Caulk	White/Black Non-Fibrous Homogeneous		10% Ca Carbonate 90% Non-fibrous (Other)	None Detected
JE-18 *292110624-0018*	Gutter - South - White Caulk	Gray/White Non-Fibrous Homogeneous		10% Ca Carbonate 90% Non-fibrous (Other)	None Detected
JE-19 *292110624-0019*	Exterior - Metal Frame Doors - White Caulk	White/Orange Non-Fibrous Homogeneous		10% Ca Carbonate 90% Non-fibrous (Other)	None Detected
JE-20 *292110624-0020*	Exterior - Metal Frame Doors - White Caulk	White/Orange Non-Fibrous Homogeneous		10% Ca Carbonate 90% Non-fibrous (Other)	None Detected
JE-21 *292110624-0021*	Exterior - Metal Frame Doors - White Caulk	White Non-Fibrous Homogeneous		10% Ca Carbonate 90% Non-fibrous (Other)	None Detected
JE-22 *292110624-0022*	Exterior - Wood Fram Doors - White Caulk	Gray/White Non-Fibrous Homogeneous	<1% Cellulose <1% Wollastonite	10% Ca Carbonate 90% Non-fibrous (Other)	None Detected
JE-23 *292110624-0023*	Exterior - Wood Fram Doors - White Caulk	Gray/Tan/White Fibrous Homogeneous	5% Wollastonite 2% Fibrous (Other)	20% Ca Carbonate 73% Non-fibrous (Other)	None Detected

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EMSL Order:	292110624
Customer ID:	TITA51
Customer PO:	70217436
Project ID:	

Test Report: Asbestos Analysis of Bulk Materials via EPA 600/R-93/116 Method using Polarized Light Microscopy

			Non-Asbestos		Asbestos
Sample	**Description**	**Appearance**	**% Fibrous**	**% Non-Fibrous**	**% Type**
JE-24 *292110624-0024*	Exterior - Wood Fram Doors - White Caulk	White Non-Fibrous Homogeneous	2% Wollastonite <1% Fibrous (Other)	10% Ca Carbonate 88% Non-fibrous (Other)	None Detected
JE-25-Cove Base *292110624-0025*	Enclosed Breezeway - 6" Black Cove Base	Black Non-Fibrous Homogeneous		25% Ca Carbonate 75% Non-fibrous (Other)	None Detected
JE-25-Mastic *292110624-0025A*	Enclosed Breezeway - 6" Black Cove Base	Yellow Fibrous Homogeneous	2% Cellulose	10% Ca Carbonate 88% Non-fibrous (Other)	None Detected
JE-26-Cove Base *292110624-0026*	Enclosed Breezeway - 6" Black Cove Base	Black Non-Fibrous Homogeneous		25% Ca Carbonate 75% Non-fibrous (Other)	None Detected
JE-26-Mastic *292110624-0026A*	Enclosed Breezeway - 6" Black Cove Base	Brown Non-Fibrous Homogeneous	<1% Cellulose <1% Wollastonite	100% Non-fibrous (Other)	None Detected
JE-27-Cove Base *292110624-0027*	Enclosed Breezeway - 6" Black Cove Base	Black Non-Fibrous Homogeneous		25% Ca Carbonate 75% Non-fibrous (Other)	None Detected
JE-27-Mastic *292110624-0027A*	Enclosed Breezeway - 6" Black Cove Base	Tan Non-Fibrous Homogeneous	<1% Cellulose	100% Non-fibrous (Other)	None Detected
JE-28-Floor Tile *292110624-0028*	Enclosed Breezeway - 12"x12" Cream w/Cream & Gray Specks Floor Tile	Gray/Beige Non-Fibrous Homogeneous		40% Ca Carbonate 60% Non-fibrous (Other)	<1% Chrysotile
JE-28-Mastic *292110624-0028A*	Enclosed Breezeway - 12"x12" Cream w/Cream & Gray Specks Floor Tile	Black Fibrous Homogeneous	2% Cellulose	5% Ca Carbonate 88% Non-fibrous (Other)	5% Chrysotile
JE-29-Floor Tile *292110624-0029*	Hallway at Breezeway - 12"x12" Cream w/Cream & Gray Specks Floor Tile	Gray/Beige Non-Fibrous Homogeneous		40% Ca Carbonate 60% Non-fibrous (Other)	<1% Chrysotile
JE-29-Mastic *292110624-0029A*	Hallway at Breezeway - 12"x12" Cream w/Cream & Gray Specks Floor Tile				Positive Stop (Not Analyzed)
JE-30-Floor Tile *292110624-0030*	Hallway at Water Fountain - 12"x12" Cream w/Cream & Gray Specks Floor Tile	Tan Non-Fibrous Homogeneous		40% Ca Carbonate 60% Non-fibrous (Other)	<1% Chrysotile
JE-30-Mastic *292110624-0030A*	Hallway at Water Fountain - 12"x12" Cream w/Cream & Gray Specks Floor Tile				Positive Stop (Not Analyzed)
JE-31-Cove Base *292110624-0031*	Hallway - East - 4" Black Cove Base	Black Non-Fibrous Homogeneous		25% Ca Carbonate 75% Non-fibrous (Other)	None Detected
JE-31-Mastic *292110624-0031A*	Hallway - East - 4" Black Cove Base	Tan/Red Non-Fibrous Homogeneous	<1% Cellulose	10% Ca Carbonate 90% Non-fibrous (Other)	None Detected
JE-32-Cove Base *292110624-0032*	Hallway at Water Fountain - 4" Black Cove Base	Black Non-Fibrous Homogeneous		25% Ca Carbonate 75% Non-fibrous (Other)	None Detected

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EMSL Order: 292110624
Customer ID: TITA51
Customer PO: 70217436
Project ID:

Test Report: Asbestos Analysis of Bulk Materials via EPA 600/R-93/116 Method using Polarized Light Microscopy

			Non-Asbestos		Asbestos
Sample	**Description**	**Appearance**	**% Fibrous**	**% Non-Fibrous**	**% Type**
JE-32-Mastic *292110624-0032A*	Hallway at Water Fountain - 4" Black Cove Base	Tan/Red Non-Fibrous Homogeneous	<1% Cellulose <1% Glass	10% Ca Carbonate 90% Non-fibrous (Other)	None Detected
JE-33-Cove Base *292110624-0033*	Hallway - West - 4" Black Cove Base	Black Non-Fibrous Homogeneous		25% Ca Carbonate 75% Non-fibrous (Other)	None Detected
JE-33-Mastic *292110624-0033A*	Hallway - West - 4" Black Cove Base	Tan Non-Fibrous Homogeneous	<1% Cellulose	100% Non-fibrous (Other)	None Detected
JE-34-Floor Tile *292110624-0034*	Hallway - 12" White w/Light & Dark Specks Floor Tile	Gray/White/Beige Non-Fibrous Homogeneous		40% Ca Carbonate 60% Non-fibrous (Other)	None Detected
JE-34-Mastic *292110624-0034A*	Hallway - 12" White w/Light & Dark Specks Floor Tile	Black Fibrous Homogeneous	2% Cellulose	5% Ca Carbonate 88% Non-fibrous (Other)	5% Chrysotile
JE-35-Floor Tile *292110624-0035*	Hallway - 12" White w/Light & Dark Specks Floor Tile	Gray/White/Beige Non-Fibrous Homogeneous		40% Ca Carbonate 60% Non-fibrous (Other)	None Detected
JE-35-Mastic *292110624-0035A*	Hallway - 12" White w/Light & Dark Specks Floor Tile				Positive Stop (Not Analyzed)
JE-36-Floor Tile *292110624-0036*	Hallway - 12" White w/Light & Dark Specks Floor Tile	White Non-Fibrous Homogeneous		40% Ca Carbonate 60% Non-fibrous (Other)	None Detected
JE-36-Mastic *292110624-0036A*	Hallway - 12" White w/Light & Dark Specks Floor Tile				Positive Stop (Not Analyzed)
JE-37-Tile *292110624-0037*	Classroom #2 - Kid's Restroom - Mozaic Tile Grout & Mortar	White Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
JE-37-Grout *292110624-0037A*	Classroom #2 - Kid's Restroom - Mozaic Tile Grout & Mortar	Gray/White Non-Fibrous Homogeneous		55% Ca Carbonate 45% Non-fibrous (Other)	None Detected
JE-37-Mortar *292110624-0037B*	Classroom #2 - Kid's Restroom - Mozaic Tile Grout & Mortar	Tan/Various Non-Fibrous Homogeneous		30% Quartz 20% Ca Carbonate 50% Non-fibrous (Other)	None Detected
JE-38-Tile *292110624-0038*	Classroom #2 - Adult's Restroom - Mozaic Tile Grout & Mortar	White Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
JE-38-Grout *292110624-0038A*	Classroom #2 - Adult's Restroom - Mozaic Tile Grout & Mortar	Gray/White Non-Fibrous Homogeneous		55% Ca Carbonate 45% Non-fibrous (Other)	None Detected
JE-38-Mortar *292110624-0038B*	Classroom #2 - Adult's Restroom - Mozaic Tile Grout & Mortar	Tan/Various Non-Fibrous Homogeneous		30% Quartz 20% Ca Carbonate 50% Non-fibrous (Other)	None Detected
JE-39-Tile *292110624-0039*	Classroom #3 - Kid's Restroom - Mozaic Tile Grout & Mortar	White Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
JE-39-Grout *292110624-0039A*	Classroom #3 - Kid's Restroom - Mozaic Tile Grout & Mortar	Gray Non-Fibrous Homogeneous		20% Quartz 20% Ca Carbonate 60% Non-fibrous (Other)	None Detected
JE-39-Mortar *292110624-0039B*	Classroom #3 - Kid's Restroom - Mozaic Tile Grout & Mortar	Gray/Tan Non-Fibrous Homogeneous		25% Ca Carbonate 75% Non-fibrous (Other)	None Detected

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EMSL Order:	292110624
Customer ID:	TITA51
Customer PO:	70217436
Project ID:	

Test Report: Asbestos Analysis of Bulk Materials via EPA 600/R-93/116 Method using Polarized Light Microscopy

			Non-Asbestos		Asbestos
Sample	**Description**	**Appearance**	**% Fibrous**	**% Non-Fibrous**	**% Type**
JE-40-Mastic *292110624-0040*	Classroom #5 (Cafeteria) - Chalkboard Mastic on Brown Skim Coat	Brown Non-Fibrous Homogeneous	<1% Cellulose <1% Wollastonite	100% Non-fibrous (Other)	None Detected
JE-40-Skim Coat *292110624-0040A*	Classroom #5 (Cafeteria) - Chalkboard Mastic on Brown Skim Coat	Brown Non-Fibrous Homogeneous		20% Quartz 20% Ca Carbonate 60% Non-fibrous (Other)	None Detected
JE-41-Mastic *292110624-0041*	Classroom #5 (Cafeteria) - Chalkboard Mastic on Brown Skim Coat	Brown Non-Fibrous Homogeneous	<1% Cellulose <1% Wollastonite	100% Non-fibrous (Other)	None Detected
JE-41-Skim Coat *292110624-0041A*	Classroom #5 (Cafeteria) - Chalkboard Mastic on Brown Skim Coat	Brown Non-Fibrous Homogeneous		20% Quartz 20% Ca Carbonate 60% Non-fibrous (Other)	None Detected
JE-42-Mastic *292110624-0042*	Classroom #5 (Cafeteria) - Chalkboard Mastic on Brown Skim Coat	Brown/Black Fibrous Homogeneous	2% Cellulose	98% Non-fibrous (Other)	None Detected
JE-42-Skim Coat *292110624-0042A*	Classroom #5 (Cafeteria) - Chalkboard Mastic on Brown Skim Coat	Gray Non-Fibrous Homogeneous		20% Quartz 10% Ca Carbonate 70% Non-fibrous (Other)	None Detected
JE-43-Floor Tile *292110624-0043*	Classroom #5 (Cafeteria) - 9"x9" Brown w/Black & White Streaks Floor Tile	Brown/Orange Fibrous Homogeneous		35% Ca Carbonate 63% Non-fibrous (Other)	2% Chrysotile
JE-43-Mastic *292110624-0043A*	Classroom #5 (Cafeteria) - 9"x9" Brown w/Black & White Streaks Floor Tile	Black Fibrous Homogeneous	2% Cellulose	5% Ca Carbonate 88% Non-fibrous (Other)	5% Chrysotile
JE-44 *292110624-0044*	Classroom #5 (Cafeteria) - 9"x9" Brown w/Black & White Streaks Floor Tile				Positive Stop (Not Analyzed)
JE-45 *292110624-0045*	Classroom #5 (Cafeteria) - 9"x9" Brown w/Black & White Streaks Floor Tile				Positive Stop (Not Analyzed)
JE-46 *292110624-0046*	Hallway - Red Fire Caulk	Red Fibrous Homogeneous	10% Glass	10% Ca Carbonate 80% Non-fibrous (Other)	None Detected
JE-47 *292110624-0047*	Breezeway - Red Fire Caulk	Red Fibrous Homogeneous	15% Synthetic	15% Ca Carbonate 70% Non-fibrous (Other)	None Detected
JE-48 *292110624-0048*	Breezeway - Red Fire Caulk	Red Fibrous Homogeneous	2% Synthetic	10% Ca Carbonate 88% Non-fibrous (Other)	None Detected
JE-49 *292110624-0049*	Exterior - Windows at Brick - White Caulk	White/Various Fibrous Homogeneous	2% Wollastonite <1% Fibrous (Other)	10% Ca Carbonate 88% Non-fibrous (Other)	None Detected
JE-50 *292110624-0050*	Exterior - Windows at Brick - White Caulk	Tan/White Fibrous Homogeneous	10% Wollastonite 2% Fibrous (Other)	10% Ca Carbonate 78% Non-fibrous (Other)	None Detected

Initial report from: 11/11/2021 16:05:27

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EMSL Order:	292110624
Customer ID:	TITA51
Customer PO:	70217436
Project ID:	

Test Report: Asbestos Analysis of Bulk Materials via EPA 600/R-93/116 Method using Polarized Light Microscopy

			Non-Asbestos		Asbestos
Sample	**Description**	**Appearance**	**% Fibrous**	**% Non-Fibrous**	**% Type**
JE-51 *292110624-0051*	Exterior - Windows at Brick - White Caulk	Gray/White Fibrous Homogeneous	5% Wollastonite 3% Fibrous (Other)	25% Ca Carbonate 67% Non-fibrous (Other)	None Detected

Analyst(s)

Joshua Moorman (23)

Roxsee Stover (53)

Billy Barnes, Asbestos Lab Manager
or Other Approved Signatory

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Samples analyzed by EMSL Analytical, Inc. Morrisville, NC NVLAP Lab Code 200671-0, VA 3333 000278, WVA LT000296

Initial report from: 11/11/2021 16:05:27

EMSL Analytical, Inc.

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http://www.EMSL.com / raleighlab@emsl.com

EMSL Order:	292110624
Customer ID:	TITA51
Customer PO:	70217436
Project ID:	

Attention:	Cory Edwards Terracon Consultants, Inc. 2401 Brentwood Road Suite 107 Raleigh, NC 27604	**Phone:**	(919) 873-2211
		Fax:	(919) 873-9555
		Received:	11/04/2021 5:10 PM
		Analysis Date:	11/16/2021
		Collected:	
Project:	Johnsonville E.S. - Bldg 2, Cameron, NC		

Test Report: Asbestos Analysis of Bulk Materials via EPA 600/R-93/116 Method using Polarized Light Microscopy. Quantitation using 400 Point Count Procedure

			Non-Asbestos		Asbestos
Sample	**Description**	**Appearance**	**% Fibrous**	**% Non-Fibrous**	**% Type**
JE-14 *292110624-0014*	South Side - Window Glazing	White Non-Fibrous Homogeneous		100.0% Non-fibrous (Other)	**<0.25%** **Chrysotile**

Analyst(s)

Roxsee Stover (1)

Billy Barnes, Asbestos Lab Manager
or other approved signatory

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Samples analyzed by EMSL Analytical, Inc. Morrisville, NC NVLAP Lab Code 200671-0, VA 3333 000278, WVA LT000296

Initial report from: 11/17/2021 14:56:44

OrderID: 292110624

EMSL Analytical, Inc.
2500 Gateway Centre Boulevard
, NC 27560
(919) 465-3900
(919) 465-3950

Asbestos Bulk Building Material

Client: Terracon Consultants, Inc. Test: PLM #Samples: 51
Order: 292110624 Project: Johnsonville E.S. - Bldg 2, Cameron, NC
Disposition: ***Return to client***

Company Name : Terracon Consultants, Inc.		**EMSL Customer ID:**	
Street: 2401 Brentwood Road Suite 107		**City:** Raleigh	**State or Province:** NC
Zip/Postal Code: 27604	**Country:** US	**Telephone #:** 919-873-2211	**Fax #:** 919-873-9555
Report To (Name): Cory Edwards		**Please Provide Results via:** ☐ Fax ☒ Email	
email Address: cory.edwards@terracon.com		**Purchase Order Number:** 7021743	
Client Project ID: Johnsonville E.S. - Bldg 2		**EMSL Project ID** (*internal use only*):	
State or Province Collected: NC		**CT only** ☐ **Commercial/Taxable** ☐ **Residential/Tax Exempt**	

EMSL-Bill to: ☐ Same ☑ Different - *If bill to is different note instructions in comment. Third party billing requires written authorization from third party*

Turnaround Time (TAT) Options Please Check

☐ 3 Hour ☐ 6 Hour ☐ 24 Hour ☐ 32 Hour* ☐ 48 Hour ☐ 72 Hour ☐ 96 Hour ☒ 1 Week ☐ 2 Week

*32 Hour TAT available for select tests only; samples must be submitted by 11:30am.
Please call ahead for large projects and/or turnaround times 6 hours or less.

PLM - Bulk (reporting limit)	TEM – Bulk
☒ PLM EPA 600/R-93/116 (<1%)	☐ TEM EPA NOB – EPA 600/R-93/116 Section 2.5.5.1
☐ PLM EPA NOB (<1%)	☐ NY ELAP Method 198.4 non-friable - NY
Point Count ☐ 400 (<0.25%) ☐ 1000 (<0.1%)	☐ Chatfield Protocol (semi-quantitative)
Point Count w/Gravimetric ☐ 400 (<0.25%) ☐ 1000 (<0.1%)	☐ TEM % by Mass – EPA 600/R-93/116 Section 2.5.5.2
☐ NIOSH 9002 (<1%)	☐ TEM Qualitative via Filtration Prep Technique
☐ NY ELAP Method 198.1- friable - NY	☐ TEM Qualitative via Drop Mount Prep Technique
☐ NY ELAP Method 198.6 NOB- non-friable - NY	**Other tests (please specify)**
☐ NY ELAP Method 198.8- Vermiculite Surfacing Material	
☐ OSHA ID-191 Modified	☐
☐ EMSL Standard Addition Method	

☒ **Positive Stop – Clearly Identify Homogenous Areas (HA)** **Date Sampled:** 11/3/21

Sampler's Name: Cory Edwards **Sampler's Signature:** Cory Edwards

Sample #	HA #	Sample Location	Material Description
		See Electronic COC	

Client Sample # (s): JE-01 - JE-51 **Total # of Samples:** 51

Relinquished by (Client): Cory Edwards **Date:** 11/4/21 **Time:**

Received by (Lab): DB **Date:** 11/4/21 **Time:** 5:10

Comments/Special Instructions:
BillTo: Terracon Consultants, Inc., 10841 S. Ridgeview Rd, Olathe, KS, 66061, US
Attention: Accounts Payable Phone: 913-599-6886 Email: Purchase Order:

Page 1 of 1

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Terracon Consultants, Inc.
Johnsonville E.S. - Bldg 2, Cameron, NC
11/4/2021 17:10 **TAT:** 1 Week
PLM Bulk

Order ID: 292110624
No Samples: 51
Due: 11/11 5:10 PM
Fax: 919-873-9555

Terracon	Contact:	Cory Edwards	
2401 Brentwood Road, Suite 107	Phone #:	919.873.2211	
Raleigh, NC 27604	Email Results to:	cory.edwards@terracon.com	
Analysis: PLM	TAT:	1 Day 2 Days 3 Days 4 Days (5 Days) Other	
Project Name: Johnsonville E.S. - Bldg. 2			11/4/2021
Project Number: 70217436	Building Number:		
	Address:	Cameron, NC	

HA	Sample #	Sample Location	Description	Notes
1	JE-01	Roof - Under EPDM Rubber	Modified Bitumen Roofing	1st Positive Stop
1	JE-02	Roof - Under EPDM Rubber	Modified Bitumen Roofing	↓
1	JE-03	Roof - Under EPDM Rubber	Modified Bitumen Roofing	↓
2	JE-04	Roof - at Gym	Light Gray Flashing Mastic	1st Positive Stop
2	JE-05	Roof - at Gym	Light Gray Flashing Mastic	↓
2	JE-06	Roof - at Gym	Light Gray Flashing Mastic	↓
3	JE-07	Roof - at Gym	Dark Gray Flashing Mastic	1st Positive Stop
3	JE-08	Roof - at Gym	Dark Gray Flashing Mastic	↓
3	JE-09	Roof - at Gym	Dark Gray Flashing Mastic	↓
4	JE-10	Roof - at Gym	Cream Colored Roof Patch	1st Positive Stop
4	JE-11	Roof - at Gym	Cream Colored Roof Patch	↓
4	JE-12	Roof - at Gym	Cream Colored Roof Patch	↓
5	JE-13	South Side	Window Glazing	1st Positive Stop
5	JE-14	South Side	Window Glazing	↓
5	JE-15	North Side	Window Glazing	↓
6	JE-16	Gutter - South	White Caulk	1st Positive Stop
6	JE-17	Gutter - South	White Caulk	↓
6	JE-18	Gutter - South	White Caulk	↓
7	JE-19	Exterior - Metal Frame Doors	White Caulk	1st Positive Stop
7	JE-20	Exterior - Metal Frame Doors	White Caulk	↓
7	JE-21	Exterior - Metal Frame Doors	White Caulk	↓
8	JE-22	Exterior - Wood Fram Doors	White Caulk	1st Positive Stop
8	JE-23	Exterior - Wood Fram Doors	White Caulk	↓
8	JE-24	Exterior - Wood Fram Doors	White Caulk	↓
9	JE-25	Enclosed Breezeway	6" Black Cove Base	1st Positive Stop
9	JE-26	Enclosed Breezeway	6" Black Cove Base	↓
9	JE-27	Enclosed Breezeway	6" Black Cove Base	↓
10	JE-28	Enclosed Breezeway	12"x12" Cream w/Cream & Gray Specks Floor Tile	1st Positive Stop
10	JE-29	Hallway at Breezeway	12"x12" Cream w/Cream & Gray Specks Floor Tile	↓
10	JE-30	Hallway at Water Fountain	12"x12" Cream w/Cream & Gray Specks Floor Tile	↓
11	JE-31	Hallway - East	4" Black Cove Base	1st Positive Stop
11	JE-32	Hallway at Water Fountain	4" Black Cove Base	↓

Terracon Consultants, Inc.
Johnsonville E.S. - Bldg 2, Cameron, NC
11/4/2021 17:10 **TAT:** 1 Week
PLM Bulk

Order ID: 292110624
No Samples: 51
Due: 11/11 5:10 PM
Fax: 919-873-9555

Terracon	Contact:	Cory Edwards		
2401 Brentwood Road, Suite 107	Phone #:	919.873.2211		
Raleigh, NC 27604	Email Results to:	cory.edwards@terracon.com		
Analysis: PLM	TAT:	1 Day 2 Days 3 Days 4 Days (5 Days) Other		
Project Name: Johnsonville E.S. - Bldg. 2				11/4/2021
Project Number: 70217436		Building Number:		
		Address:	Cameron, NC	

HA	Sample #	Sample Location	Description	Notes
11	JE-33	Hallway - West	4" Black Cove Base	↓
12	JE-34	Hallway	12" White w/Light & Dark Specks Floor Tile	1st Positive Stop
12	JE-35	Hallway	12" White w/Light & Dark Specks Floor Tile	↓
12	JE-36	Hallway	12" White w/Light & Dark Specks Floor Tile	↓
13	JE-37	Classroom #2 - Kid's Restroom	Mozaic Tile Grout & Mortar	1st Positive Stop
13	JE-38	Classroom #2 - Adult's Restroom	Mozaic Tile Grout & Mortar	↓
13	JE-39	Classroom #3 - Kid's Restroom	Mozaic Tile Grout & Mortar	↓
14	JE-40	Classroom #5 (Cafeteria)	Chalkboard Mastic on Brown Skim Coat	1st Positive Stop
14	JE-41	Classroom #5 (Cafeteria)	Chalkboard Mastic on Brown Skim Coat	↓
14	JE-42	Classroom #5 (Cafeteria)	Chalkboard Mastic on Brown Skim Coat	↓
15	JE-43	Classroom #5 (Cafeteria)	9"x9" Brown w/Black & White Streaks Floor Tile	1st Positive Stop
15	JE-44	Classroom #5 (Cafeteria)	9"x9" Brown w/Black & White Streaks Floor Tile	↓
15	JE-45	Classroom #5 (Cafeteria)	9"x9" Brown w/Black & White Streaks Floor Tile	↓
16	JE-46	Hallway	Red Fire Caulk	1st Positive Stop
16	JE-47	Breezeway	Red Fire Caulk	↓
16	JE-48	Breezeway	Red Fire Caulk	↓
17	JE-49	Exterior - Windows at Brick	White Caulk	1st Positive Stop
17	JE-50	Exterior - Windows at Brick	White Caulk	↓
17	JE-51	Exterior - Windows at Brick	White Caulk	↓

APPENDIX D

LEAD PAINT SURVEY SAMPLE SUMMARY

Appendix D

LEAD PAINT SURVEY SAMPLE SUMMARY
Johnsonville Elementary School - Building 2
18495 NC-27
Cameron, North Carolina
Terracon Project No. 70217436

Sample #	Description	Sample Location	Lead Concentration (% Weight)
JEL-01	White Paint on Metal	Exterior - Fascia	**3.3%**
JEL-02	White Paint on Wood	Exterior - Soffit	**5.0%**
JEL-03	White Paint on Metal	Exterior - Windows	**1.5%**
JEL-04	Light Blue Paint on Metal	Exterior - Door	<0.0049%
JEL-05	White Paint on Metal	Exterior - Door Frame	<0.0074%
JEL-06	White Paint on Metal	Exterior - Gutter Downspouts	**0.018%**
JEL-07	Black Paint on Wood	Exterior - Door Frame	**0.039%**
JEL-08	Beige Paint on Wood	Exterior - Door Frame	**0.25%**
JEL-09	Beige Paint on Wood	Interior - Door Frame	**0.023%**
JEL-10	Beige Paint on Metal	Interior - Cast Iron Pipe	**0.14%**
JEL-11	Beige Paint on Metal	Interior - Radiator	**0.16%**
JEL-12	Beige Paint on Metal	Interior - I-Beam	**12%**
JEL-13	White Paint on Pressboard	Interior - Ceiling	**0.0080%**
JEL-14	Tan Paint on CMU Block	Interior - Walls	**0.015%**
JEL-15	Beige Paint on Wood	Interior - Door Frame	**0.096%**
JEL-16	Gray Paint on Metal	Interior - Steam Pipe	**0.23%**
JEL-17	Beige Paint on Metal	Interior - Windows	**0.036%**

*Bolded samples indicate samples with OSHA-regulated paints with lead concentrations above the laboratory detection limit.

APPENDIX E

LEAD PAINT LABORATORY ANALYICAL REPORT

Analysis for Lead Concentration in Paint Chips

by Flame Atomic Absorption Spectroscopy
EPA SW-846 3050B/6010C/7000B

Customer: Terracon
2401 Brentwood Rd, Suite 107
Raleigh, NC 27604

Attn: Cory Edwards

Project: Johnsonville E.S.-Bldg. 2

Lab Order ID: 71978792
Analysis ID: 71978792_PBP
Date Received: 11/5/2021
Date Reported: 11/12/2021
Date Amended: *11/15/2021*

Sample ID *Lab Sample ID*	Description *Lab Notes*	Mass *(g)*	Concentration *(ppm)*	Concentration *(% by weight)*
JEL-01 71978792PBP_1	Exterior - Fascia white paint on metal	0.0741	33000	**3.3%**
JEL-02 71978792PBP_2	Exterior - Soffit white paint on wood	0.0880	50000	**5.0%**
JEL-03 71978792PBP_3	Exterior - Windows white paint on metal	0.0667	15000	**1.5%**
JEL-04 71978792PBP_4	Exterior - Door light blue paint on metal	0.0327	< 49	**< 0.0049%**
JEL-05 71978792PBP_5	Exterior - Door Frame white paint on metal	0.0217	< 74	**< 0.0074%**
JEL-06 71978792PBP_6	Exterior - Gutter Downspouts white paint on metal	0.0881	180	**0.018%**
JEL-07 71978792PBP_7	Exterior - Door Frame black paint on wood	0.0818	400	**0.039%**
JEL-08 71978792PBP_8	Exterior - Door Frame beige paint on wood	0.0785	2500	**0.25%**
JEL-09 71978792PBP_9	Interior - Door Frame beige paint on wood	0.0548	230	**0.023%**
JEL-10 71978792PBP_10	Interior - Cast Iron Pipe beige paint on metal	0.0752	1400	**0.14%**

Unless otherwise noted blank sample correction was not performed on analytical results. Scientific Analytical Institute participates in the AIHA ELPAT program. ELPAT Laboratory ID: 173190. This report relates only to the samples tested and may not be reproduced, except in full, without the written approval of SAI. Analytical uncertainty available upon request. The quality control samples run with the samples in this report have passed all EPA required specifications unless otherwise noted. RL: (Report Limit for an undiluted 50ml sample is 4µg Total Pb). Unless indicated, areas and volumes were provided by the customer.

Athena Summa (17)

Analyst

Laboratory Director

Analysis for Lead Concentration in Paint Chips

by Flame Atomic Absorption Spectroscopy
EPA SW-846 3050B/6010C/7000B

Customer: Terracon
2401 Brentwood Rd, Suite 107
Raleigh, NC 27604

Attn: Cory Edwards

Project: Johnsonville E.S.-Bldg. 2

Lab Order ID: 71978792
Analysis ID: 71978792_PBP
Date Received: 11/5/2021
Date Reported: 11/12/2021
Date Amended: *11/15/2021*

Sample ID *Lab Sample ID*	Description *Lab Notes*	Mass *(g)*	Concentration *(ppm)*	Concentration *(% by weight)*
JEL-11 71978792PBP_11	Interior - Radiator beige paint on metal	0.0714	1600	**0.16%**
JEL-12 71978792PBP_12	Interior - I-Beam beige paint on metal	0.0827	120000	**12%**
JEL-13 71978792PBP_13	Interior - Ceiling white paint on pressboard	0.0917	80.	**0.0080%**
JEL-14 71978792PBP_14	Interior - Walls tan paint on CMU block	0.0599	150	**0.015%**
JEL-15 71978792PBP_15	Interior - Door Frame beige paint on wood	0.0581	960	**0.096%**
JEL-16 71978792PBP_16	Interior - Steam Pipe gray paint on metal	0.0801	2300	**0.23%**
JEL-17 71978792PBP_17	Interior - Windows beige paint on metal	0.0597	360	**0.036%**

Unless otherwise noted blank sample correction was not performed on analytical results. Scientific Analytical Institute participates in the AIHA ELPAT program. ELPAT Laboratory ID: 173190. This report relates only to the samples tested and may not be reproduced, except in full, without the written approval of SAI. Analytical uncertainty available upon request. The quality control samples run with the samples in this report have passed all EPA required specifications unless otherwise noted. RL: (Report Limit for an undiluted 50ml sample is 4µg Total Pb). Unless indicated, areas and volumes were provided by the customer.

Athena Summa (17)

Analyst

Laboratory Director

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

Lab Use Only
Lab Order ID: 7197892
Client Code: _____

Contact Information

Company Name: Terracon
Address: 2401 Brentwood Rd Suite 106
Raleigh, NC 27604
Contact: Cory Edwards
Phone ☐: 919.508.7000
Fax ☐:
Email ☒: cory.edwards@terracon.com
PO Number: 70217436
Project Name/Number: Johnsonville E.S. - Bldg. 2

Billing/Invoice Information

Company: Same
Address:
Contact:
Phone ☐:
Fax ☐:
Email ☐:

Lead Test Types

Paint Chips by Flame AA (PBP) ☒	Soil by Flame AA (PBS) ☐	Other ☐
Wipe by Flame AA (PBW) ☐	Air by Flame AA (PBA) ☐	

Turn Around Times

3 Hours	☐	72 Hours	☐
6 Hours	☐	96 Hours	☒
12 Hours	☐	120 Hours	☐
24 Hours	☐	144+ Hours	☐
48 Hours	☐		

Sample ID #	Description/Location	Volume/Area	Comments
	See Electronic COC		

Total Number of Samples 17

Relinquished by	Date/Time	Received by	Date/Time
Cory Edwards	11/4/21		

7197892 R

Terracon	Contact:	Cory Edwards	
2401 Brentwood Road Suite 107	Phone #:	(919) 873-2211	
Raleigh, NC 27604	Email Results to:	cory.edwards@terracon.com	
Analysis: Flame Atomic Absorption	TAT:	1 Day 2 Days 3 Days 4 Days (5 Days)	Other ____
Project Name:	Johnsonville E.S. - Bldg. 2		
Project Number:	70217436	Building Number:	
		Address: Cameron, NC	
Building Classification:			11/4/2021

Sample #	Location	Description	Notes
JEL-01	Exterior - Fascia	White Paint on Metal	
JEL-02	Exterior - Soffit	White Paint on Wood	
JEL-03	Exterior - Windows	White Paint on Metal	
JEL-04	Exterior - Door	Light Blue Paint on Metal	
JEL-05	Exterior - Door Frame	White Paint on Metal	
JEL-06	Exterior - Gutter Downspouts	White Paint on Metal	
JEL-07	Exterior - Door Frame	Black Paint on Wood	
JEL-08	Exterior - Door Frame	Beige Paint on Wood	
JEL-09	Interior - Door Frame	Beige Paint on Wood	
JEL-10	Interior - Cast Iron Pipe	Beige Paint on Metal	
JEL-11	Interior - Radiator	Beige Paint on Metal	
JEL-12	Interior - I-Beam	Beige Paint on Metal	
JEL-13	Interior - Ceiling	White Paint on Pressboard	
JEL-14	Interior - Walls	Tan Paint on CMU Block	
JEL-15	Interior - Door Frame	Beige Paint on Wood	
JEL-16	Interior - Steam Pipe	Gray Paint on Metal	
JEL-17	Interior - Windows	Beige Paint on Metal	

Accepted ☑ C. Cetter

Rejected ☐ 11/15 3pm

APPENDIX F

PHOTOGRAPHS

Photo #1 View of rear of building.

Photo #2 View of EPDM rubber roof.

Photo #3 View of HA 1, non-asbestos containing modified bitumen roofing under EPDM rubber.

Photo #4 View of HA 2, asbestos containing light gray flashing mastic behind HA 3, non-asbestos dark gray flashing mastic.

Photo #5 View of HA 4, non-asbestos containing cream colored roof patch.

Photo #6 View of HA 5, <0.25% asbestos containing window glazing.

Photo #7 View of HA 6, non-asbestos containing white gutter caulk.

Photo #8 View of HA 7, non-asbestos containing white metal frame door caulk.

Photo #9 View of HA 8, non-asbestos containing white wood frame door caulk.

Photo #10 View of HA 9, non-asbestos containing 6” black cove base and mastic.

Photo #11 View of HA 10, <1% asbestos containing 12”x12” cream with cream and gray specks floor tile and 5% asbestos containing mastic.

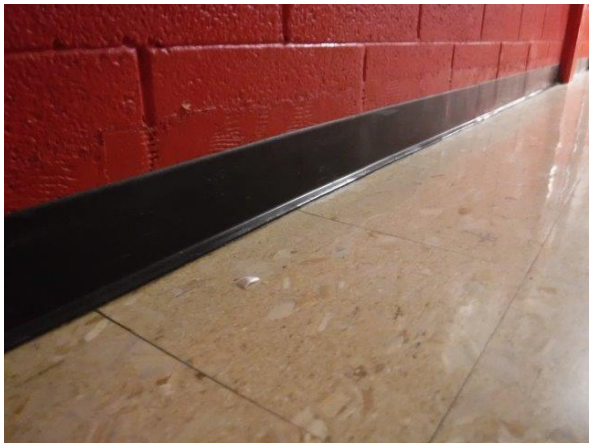

Photo #12 View of HA 11, non-asbestos containing 4” black cove base and mastic.

Photo #13 View of HA 12, non-asbestos containing 12”x12” white with light and dark specks floor tile and asbestos containing mastic.

Photo #14 View of HA 13, non-asbestos containing mosaic tile, grout, and mortar.

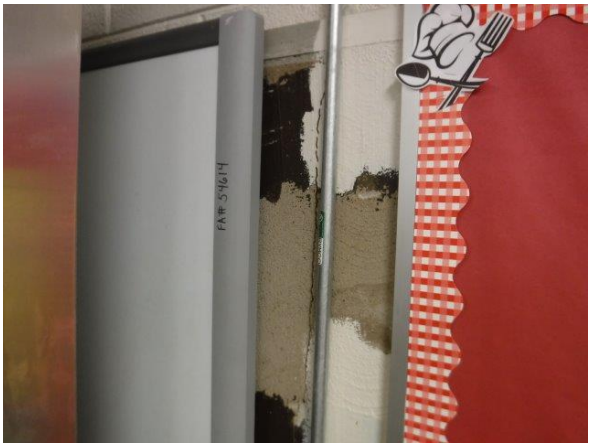

Photo #15 View of HA 14, non-asbestos containing black chalkboard mastic and non-asbestos containing brown skim coat.

Photo #16 View of HA 15, asbestos containing 9”x9” brown with black and white streaks floor tile and asbestos containing mastic.

Photo #17 View of HA 16, non-asbestos containing red fire caulk.

Photo #18 View of HA 17, non-asbestos containing white window caulk.

APPENDIX G

ACCREDITATIONS

Cory D Edwards
1000 Log Barn Rd
Pittsboro , NC 27312

133914

North Carolina
Asbestos Accreditation

EXPIRATION			
09-30-2022			
DOB	SEX	HT	WT
12-09-1980	M	5'10"	195

CLASS	#	EXP
DESIGNER	40527	09-22
INSPECTOR	12677	12-21
MGMT PLANNER	21032	12-21