Asbestos Survey

Building 1860 Roof Repairs
MCB Camp Lejeune
Project # 25-0004

Report Prepared By:
Christopher B. Walker
The Walker Group Architecture, Inc

April 2nd, 2026

WGA Project No. – 2601.1860

Project Information

The Walker Group Architecture, Inc. was contracted by NRW Engineering to conduct an asbestos sampling survey for the roof of Building 1860 at Marine Corps Base Camp Lejeune. The specified structure is slated for complete removal and replacement of the existing modified bitumen roof system. An asbestos survey has been requested prior to disturbance of any potential asbestos containing materials (ACM).

Scope of Services

A. The survey was performed on 02/10/26 by Christopher B. Walker (NC Accredited Inspector #12878, expires June, 2026). The sampling was conducted in general accordance with the U.S. Environmental Protection Agency (EPA) requirements as defined in the asbestos Hazards Emergency Response Act (40 CFR Part 763) guidelines (AHERA) and in general accordance with the North Carolina Health Hazards Control Unit (NCHHCU).

B. The survey was conducted to identify the presence of asbestos containing materials (ACM) prior to repairs to the building.

C. The building was assessed to determine homogenous areas (groups of materials appearing to have been installed in the same general time period and uniform in color and texture).

D. As per AHERA, sufficient samples were collected from random locations of each homogenous area, with the number of samples based on the following criteria:

- **a. Thermal Insulation Materials** (piping, breeching, boiler insulation, etc.) – A minimum of (3) samples are required. Patch areas (less than 6 square or liner feet) may have (2) sample collected.
- **b. Surfacing Materials** (plaster, fireproofing, etc.) – A minimum of (7) samples are to be taken for areas greater than 5,000 square feet, five (5) samples for areas greater than 1,000 square feet, but less than 5,000 square feet, three (3) samples for areas less than 1,000 square feet, two (2) samples for patching materials.
- **c. Miscellaneous Materials** (flooring, adhesives, roofing, wallboard, etc.) – A minimum of (2) samples are required.

If any one sample of a material from a homogenous area is found to be positive, then that material is considered positive, regardless of results of other samples of that material, within that area.

Samples

A. The Walker Group Architecture collected suspect samples and shipped them to EMSL Analytical, Inc. (NVLAP Accredited Laboratory 102104-0) for PLM (polarized Light Microscopy) analysis. In an effort to reduce cost, the Walker Group instructed the laboratory to Stop Analysis at the first positive sample for each suspect material HGA and not to analyze the remaining samples from the same HGA.

Building Description and Findings

Building 1860 is an active shop and administration building. The roof system is a modified bitumen roof system over rigid insulation and steel decking. There are metal gravel stops and all edges and metal fascia that extend

over metal wall panels. There is a high and low section to the roof and many roof penetrations from vents, roof drains, and mechanical equipment.

A. Laboratory Results

Material	Material Type	Location	Friability	Laboratory Result	Approx.Quantity
Modified Bitumen Roof Membrane	Misc	Roof	NF	Non-Detected	N/A
White flashing at roof penetrations	Misc	Miscellaneous Roof Penetrations	NF	Non-Detected	N/A
Black flashing at roof penetrations	Misc	Miscellaneous Roof Penetrations	NF	Non-Detected	N/A

Based on the sample lab analysis none of the materials sampled were found to be Asbestos Containing Materials.

Disposal

A. In accordance with the NCHHCU regulations, asbestos containing materials (ACM) waste should be taken to an approved landfill. All demolition/renovation work must be performed in accordance with NESHAP asbestos regulations, 40CFR61, Subpart M, and OSHA Regulations 29 CFR 1926.1101. Any disturbance should be conducted in accordance with federal, state, and local regulations.

Recommendations

A. Any demolition/renovation work in which ACM is disturbed must be in compliance with, EPA, OSHA and the state of North Carolina regulations. Abatement work shall be conducted by NC Accredited asbestos workers under the supervision of a NC accredited asbestos supervisor. The contractor conducting asbestos abatement activities must notify the North Carolina Department of Health and Human Services (HHS) ten (10) days prior to the disturbance of ACM if it is friable and greater than or equal to 160 square feet, 260 linear feet or 35 cubic feet.

B. If additional suspect materials are discovered during demolition/renovation, they should be classified presumed to be asbestos-containing until sampling by a state of North Carolina licensed Asbestos Building Inspector personnel and analysis by a NVLAP-Accredited and state of North Carolina licensed laboratory can be performed.

See attached for Accreditations, Asbestos Lab Results and Chain of Custody. If further information is required, please contact me at 1-252-636-8778

Report Prepared by:

Christopher B. Walker, AIA
North Carolina Asbestos Inspector Accreditation# 12878
The Walker Group Architecture, Inc.,
PO Box 541, New Bern, NC 28560

NC DEPARTMENT OF
HEALTH AND
HUMAN SERVICES

ROY COOPER • Governor
KODY H. KINSLEY • Secretary
MARK T. BENTON • Chief Deputy Secretary for Health
KELLY KIMPLE • Acting Director, Division of Public Health

July 1, 2025

Christopher B Walker
103 Conner Grant Rd
New Bern, NC 28562

Dear Mr. Walker:

Based upon the review of your accreditation application, the Health Hazards Control Unit (HHCU) has determined that you have fulfilled the requirements and are eligible for asbestos accreditation as a(n) INSPECTOR. Your assigned North Carolina accreditation number is 12878, which is reflected on your enclosed North Carolina Accreditation card. Please be sure to take this card with you to any asbestos work site where you are employed. The State requires that all persons conducting asbestos abatement or asbestos management activities be accredited and have their identification card on site.

Your North Carolina Inspector accreditation will expire on JUNE 30, 2026. It is NOT the policy of the HHCU to issue renewal notices. If you wish to continue working as a(n) Inspector after this expiration date, you must successfully complete the required training and submit a completed application to this office prior to June 30, 2026. If you should continue to perform asbestos management activities as a(n) Inspector without a valid North Carolina accreditation, you will be in violation of State regulations and may be cited for noncompliance.

Sincerely,

Ed Norman
Program Manager
Health Hazards Control Unit

Enclosure

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

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

Asbestos Survey
Building 1860 Roof Repairs
MCB Camp Lejeune

United States Department of Commerce
National Institute of Standards and Technology

Certificate of Accreditation to ISO/IEC 17025:2017

NVLAP LAB CODE: 102104-0

EMSL Analytical, Inc.

Kernersville, NC

is accredited by the National Voluntary Laboratory Accreditation Program for specific services, listed on the Scope of Accreditation, for:

Asbestos Fiber Analysis

This laboratory is accredited in accordance with the recognized International Standard ISO/IEC 17025:2017. This accreditation demonstrates technical competence for a defined scope and the operation of a laboratory quality management system (refer to joint ISO-ILAC-IAF Communique dated January 2009).

2023-07-01 through 2024-06-30

Effective Dates

For the National Voluntary Laboratory Accreditation Program

EMSL Analytical, Inc.

706 Gralin Street Kernersville, NC 27284

Tel/Fax: (336) 992-1025 / (336) 992-4175

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

EMSL Order: 022601026
Customer ID: WALK85
Customer PO:
Project ID:

Attention: Chris Walker
The Walker Group Architecture
PO Box 541
New Bern, NC 28563

Project: B1860

Phone: (252) 636-8778
Fax: (252) 636-8992
Received Date: 03/16/2026 2:00 PM
Analysis Date: 03/18/2026
Collected Date:

Test Report: Asbestos Analysis of Bulk Materials via AHERA Method 40CFR 763 Subpart E Appendix E supplemented with EPA 600/R-93/116 using Polarized Light Microscopy

			Non-Asbestos		Asbestos
Sample	**Description**	**Appearance**	**% Fibrous**	**% Non-Fibrous**	**% Type**
01-Rubber Membrane *022601026-0001*	membrane roof system	White Non-Fibrous Homogeneous		5% Quartz 10% Ca Carbonate 85% Non-fibrous (Other)	None Detected
01-Tar *022601026-0001A*	membrane roof system	Black Non-Fibrous Homogeneous	<1% Cellulose <1% Glass	100% Non-fibrous (Other)	None Detected
02 *022601026-0002*	membrane roof system	Brown/White/Black Fibrous Heterogeneous	1% Cellulose 5% Glass	94% Non-fibrous (Other)	None Detected
03 *022601026-0003*	white flashing	White Non-Fibrous Homogeneous		10% Ca Carbonate 90% Non-fibrous (Other)	None Detected
04 *022601026-0004*	white flashing	White/Black Non-Fibrous Heterogeneous	<1% Cellulose	10% Ca Carbonate 90% Non-fibrous (Other)	None Detected
05 *022601026-0005*	black flashing	Black Non-Fibrous Homogeneous	<1% Cellulose <1% Glass	100% Non-fibrous (Other)	None Detected
06 *022601026-0006*	black flashing	Black Non-Fibrous Homogeneous	<1% Cellulose	100% Non-fibrous (Other)	None Detected

Analyst(s)

Cameron Evans (4)
Scott Combs (3)

Stephen Bennett, Laboratory Manager
or Other Approved Signatory

EMSL maintains liability limited to cost of analysis. Interpretation and use of test results are the responsibility of the client. This report relates only to the samples reported above, and may not be reproduced, except in full, without written approval by EMSL. EMSL bears no responsibility for sample collection activities or analytical method limitations. The report reflects the samples as received. Results are generated from the field sampling data (sampling volumes and areas, locations, etc.) provided by the client on the Chain of Custody. Samples are within quality control criteria and met method specifications unless otherwise noted. The above analyses were performed in general compliance with Appendix E to Subpart E of 40 CFR (previously EPA 600/M4-82-020 “Interim Method”) but augmented with procedures outlined in the 1993 (”final”) version of the method. This report must not be used by the client to claim product certification, approval, or endorsement by NVLAP, NIST or any agency of the federal government. Non-friable organically bound materials present a problem matrix and therefore EMSL recommends gravimetric reduction prior to analysis. Unless requested by the client, building materials manufactured with multiple layers (i.e. linoleum, wallboard, etc.) are reported as a single sample. Estimation of uncertainty is available on request.

Samples analyzed by EMSL Analytical, Inc. Kernersville, NC NVLAP Lab Code 102104-0, Virginia 3333-000228, West Virginia LT000321

Initial report from: 03/19/2026 08:32:48

OrderID: 022601026

EMSL ANALYTICAL, INC.
LABORATORY • PRODUCTS • TRAINING

Asbestos Chain of Custody

EMSL Order Number *(Lab Use Only)*: 022601026

EMSL ANALYTICAL, INC.
706 GRALIN STREET
KERNERSVILLE, NC 27284
PHONE: 336-992-1025
FAX: 336-992-4175

Company : Walker Group Architecture		**EMSL-Bill to:** ☒ Same ☐ Different If Bill to is Different note instructions in Comments** *Third Party Billing requires written authorization from third party*	
Street: 409 Broad St.			
City: New Bern	**State/Province: NC**	**Zip/Postal Code: 28560**	**Country: US**
Report To (Name): Chris Walker		**Fax #:**	
Telephone #: 252-636-8778		**Email Address: chris@wgarc.com**	
Project Name/Number: B1860			
Please Provide Results: ☐ Fax ☒ Email	**Purchase Order:**	**U.S. State Samples Taken: NC**	

Turnaround Time (TAT) Options* – Please Check

☐ 3 Hours ☐ 6 Hours ☐ 24 Hrs ☐ 48 Hrs ☒ 3 Days ☐ 4 Days ☐ 5 Days ☐ 10 Days

**For TEM Air 3 hours/6 hours, please call ahead to schedule.*There is a premium charge for 3 Hour TEM AHERA or EPA Level II TAT. You will be asked to sign an authorization form for this service. Analysis completed in accordance with EMSL's Terms and Conditions located in the Analytical Price Guide.*

PCM - Air
- ☐ NIOSH 7400
- ☐ w/ OSHA 8hr. TWA

PLM - Bulk (reporting limit)
- ☒ PLM EPA 600/R-93/116 (<1%)
- ☐ PLM EPA NOB (<1%)

Point Count
- ☐ 400 (<0.25%) ☐ 1000 (<0.1%)

Point Count w/Gravimetric
- ☐ 400 (<0.25%) ☐ 1000 (<0.1%)
- ☐ NYS 198.1 (friable in NY)
- ☐ NYS 198.6 NOB (non-friable-NY)
- ☐ NIOSH 9002 (<1%)

TEM - Air
- ☐ AHERA 40 CFR, Part 763
- ☐ NIOSH 7402
- ☐ EPA Level II
- ☐ ISO 10312

TEM - Bulk
- ☐ TEM EPA NOB
- ☐ NYS NOB 198.4 (non-friable-NY)
- ☐ Chatfield SOP
- ☐ TEM Mass Analysis-EPA 600 sec. 2.5

TEM – Water: EPA 100.2
- Fibers >10µm ☐ Waste ☐ Drinking
- All Fiber Sizes ☐ Waste ☐ Drinking

TEM- Dust
- ☐ Microvac - ASTM D 5755
- ☐ Wipe - ASTM D6480
- ☐ Carpet Sonication (EPA 600/J-93/167)

Soil/Rock/Vermiculite
- ☐ PLM CARB 435 - A (0.25% sensitivity)
- ☐ PLM CARB 435 - B (0.1% sensitivity)
- ☐ TEM CARB 435 - B (0.1% sensitivity)
- ☐ TEM CARB 435 - C (0.01% sensitivity)
- ☐ EPA Protocol (Semi-Quantitative)
- ☐ EPA Protocol (Quantitative)

Other:
- ☐

☒ **Check For Positive Stop – Clearly Identify Homogenous Group**

Samplers Name: Chris Walker **Samplers Signature:**

Sample #	Sample Description	Volume/Area (Air) HA # (Bulk)	Date/Time Sampled
01	membrane roof system	HA01	02/10/26
02	membrane roof system	HA01	02/10/26
03	white flashing	HA02	02/10/26
04	white flashing	HA02	02/10/26
05	black flashing	HA03	02/10/26
06	black flashing	HA03	02/10/26

Client Sample # (s): 01 - 06 **Total # of Samples:** 6

Relinquished (Client): WGARC **Date:** ~~02/16/2026~~ 3.13.26 **Time:** 11:00am

Received (Lab): JenSweet **Date:** 3/16/26 **Time:** 2pm UPS

Comments/Special Instructions: