APPENDIX A
HAZMAT REPORT

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MCAS Building 1103

MCAS Project ID: BE2054M CEMS Project ID: 18-154L

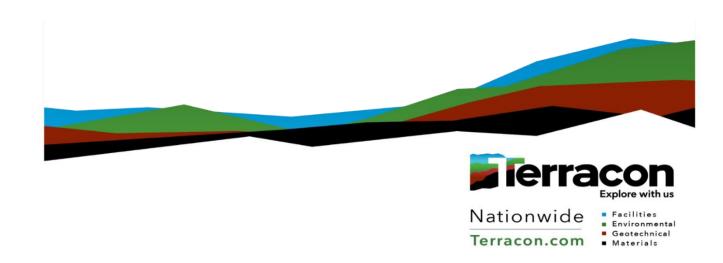
Marine Corps Air Station

Beaufort, South Carolina

November 30, 2023 | Terracon Project No. EN237355

Prepared for:

CEMS Engineering and Architecture 108 Benton Lodge Road, Suite B Summerville, South Carolina 29485





1800 Reynolds Avenue
North Charleston, SC 29405 **D** (843) 277-8405 **O** (843) 884-1234 **Terracon.com**

November 30, 2023

CEMS Engineering and Architecture 108 Benton Lodge Road, Suite B Summerville, South Carolina 29485

Attn: Mr. Jason Brawley

Project manager

E-mail: jbrawley@cems-ae.com

RE: Asbestos and Lead Paint Inspection Report

MCAS Building 1103
Marine Corps Air Station
Beaufort, South Carolina

Terracon Report No: EN237355

Dear Mr. Brawley:

Terracon Consultants, Inc. (Terracon) is pleased to present the results of the asbestos and lead paint inspection performed on November 9, 2023 for Building 1103 located at the Marine Corps Air Station in Beaufort, South Carolina. We understand that this inspection was requested due to the planned renovations and repairs to the building.

Terracon appreciates the opportunity to provide environmental consulting services for CEMS Engineering and Architecture. If you should have any questions regarding this report, or if you need assistance with bid documents or project oversight during the course of the project, please contact the undersigned at (843) 277-8402.

Sincerely,

Terracon Consultants, Inc.

Craig C. Langford, CHST, OHST

Senior Industrial Hygienist

Norman E. (Gene) Partin, CHMM

Senior Associate | Department Manager

Authorized Project Reviewer



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MCAS Building 1103 | Beaufort, SC November 30, 2023 | Terracon Project No. EN237355



EXECUTIVE SUMMARY

This executive summary is intended as an overview for the convenience of the reader. The report should be reviewed in its entirety prior to making any decisions regarding this site.

Terracon Consultants, Inc. (Terracon) conducted an asbestos and lead paint inspection for Building 1103 located at MCAS in Beaufort, South Carolina. The purpose of this inspection was to sample and identify suspect asbestos-containing materials (ACM) and provide information regarding the identity, location, condition and approximate quantities of ACM in building components. In addition, limited paint sampling was performed on various painted components that may be impacted by construction activities within the structure to determine lead content. The objective of the lead paint evaluation was to identify lead-containing paint systems on building components that may require special handling in accordance with the OSHA *Lead in Construction Standard*.

Findings

Asbestos

Based on the results of laboratory analysis, none of the materials were confirmed to contain asbestos at concentrations greater than one percent (>1%).

Lead

Based on the results of laboratory analysis, two (2) paint chip samples were collected from the interior and exterior walls. The paint chip lead analyses were below the laboratory detection limits.

Recommendations

- Accumulation of Paint residue/waste (chips, dust, flakes, etc.) Work involving any paint removal such as blasting or manual scraping may require laboratory testing by TCLP to characterize the waste stream and determine proper disposal requirements identified in SCDHEC solid waste regulations or any MCAS Base Environmental requirements.
- If applicable to this project, a copy of this report must be submitted to SCDHEC at least ten (10) working days prior to demolition, which includes if load bearing walls will be impacted.

MCAS Building 1103 | Beaufort, SC November 30, 2023 | Terracon Project No. EN237355



INTRODUCTION 1.0

Terracon Consultants, Inc. (Terracon) conducted an asbestos and lead inspection of Building 1103 located on the Marine Corps Air Station (MCAS) in Beaufort, South Carolina. The purpose of this survey was to sample and identify suspect asbestos-containing materials (ACM) and provide information regarding the identity, location, condition and approximate quantities of ACM in interior building components. In addition, limited paint sampling was performed on various painted components of the structure.

The asbestos inspection was performed on November 9, 2023, by a South Carolina Department of Health and Environmental Control (SCDHEC) licensed asbestos inspector in general accordance with CEMS Project Plan dated July 23, 2023: Repair Building 1103 - BE2054M and the sampling protocols established in EPA 40 CFR 763 (Asbestos Hazard Emergency Response Act, AHERA) and the SCDHEC Regulation 61-86.1 Standards of Performance for Asbestos Projects.

2.0 **BUILDING DESCRIPTION**

Building 1103 is an approximately 1,100 SF structure located on the South end of runway 23-05. It was constructed in 1986 and houses the Runway Approach Lighting Electrical Equipment and associated emergency generator. The building is constructed with CMU block walls and a steel roof decking ceiling. No other interior finishes are in place. The roof is constructed with a rubber membrane over plywood and steel support system. No roofing felt was observed. The building is unconditioned.

3.0 ASBESTOS SURVEY

The asbestos survey was conducted by SCDHEC licensed Asbestos Building Inspector Mr. Craig C. Langford (License No. ASB-22775 Exp. 07/19/24). A copy of Mr. Langford's license is included in Appendix D. The survey was conducted on November 9, 2023, in general accordance with the sampling protocols established by EPA Regulation 40 CFR 763 Subpart E 763.86, AHERA and SCDHEC R. 61-86.1. A summary of survey activities is provided below.

Historical Data and Reports 3.1

No previous asbestos survey reports were available or provided by the Client.

3.2 Regulatory Overview

NESHAP

Environmental Protection Agency (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/demolition activities. NESHAP requires that potentially regulated

MCAS Building 1103 | Beaufort, SC November 30, 2023 | Terracon Project No. EN237355



asbestos-containing building materials be identified, classified and quantified prior to planned disturbances or demolition activities. An ACM is defined as any material containing one or more of the six regulated forms of asbestos in an amount greater than one percent (1%). The asbestos NESHAP regulates asbestos fiber emissions and asbestos waste disposal practices. 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. Non-friable materials contain asbestos fibers which have been "locked in" by a bonding agent, coating, binder or other materials so that the asbestos is bound and will not readily release fibers during normal handling Category I non-friable ACM includes packing materials, gaskets, resilient floor coverings, asphaltic roofing products and pliable mastics containing more than one percent asbestos. Category II non-friable ACM are 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/demolition activities are considered regulated ACM (RACM). RACM must be removed prior to renovation or demolition activities.

State of South Carolina

In the state of South Carolina, asbestos activities are regulated by SCDHEC under the SCDHEC Regulation 61-86.1 Standards of Performance for Asbestos Projects. SCDHEC require that any asbestos-related activity conducted in a public building be performed by personnel licensed by SCDHEC. The owner or operator must provide SCDHEC with written notification of planned abatement and removal activities prior to the commencement of those activities. SCDHEC requires four-day notification for non-friable projects and 10-day notification for RACM projects. Asbestos abatement must be performed by SCDHEC-licensed asbestos abatement contractors. A SCDHEC-licensed Project Designer shall prepare a written abatement design for each abatement renovation project involving the removal of greater than 3,000 square, 1,500 linear, or 656 cubic feet of RACM. Third-party air monitoring must be conducted during the abatement of friable (regulated) ACM. The SCDHEC asbestos regulations can be found at https://scdhec.gov/environment/your-home/asbestos/asbestos-regulations.

SCDHEC defines a renovation as "altering a facility or one or more facility components in any way, including the stripping or removal of RACM from any facility component." A demolition is defined as "wrecking or taking out any load-supporting structural member of a facility together with any related handling operations, the burning of any facility, or moving of a structure."

OSHA

The Occupational Safety and Health Administration (OSHA) Asbestos Standard for Construction Industry (29 CFR 1926.1101) regulates workplace exposure to asbestos. The OSHA standard requires that employee exposure to airborne asbestos fibers be maintained below 0.1 asbestos fibers per cubic centimeter of air (0.1 f/cc). The OSHA standard classifies construction and maintenance activities, which could disturb ACM, and specifies work practices and precautions

MCAS Building 1103 | Beaufort, SC November 30, 2023 | Terracon Project No. EN237355



which employers must follow when engaging in each class of regulated work. A full copy of the OSHA asbestos standard for general industry may be found at OSHA's website (www.osha.gov) and should be referred to for specific information.

3.3 Visual Assessment

Our survey activities began with visual observation of the interior of the unit within the renovation scope to identify apparent homogeneous areas of suspect ACM. A homogeneous area consists of building materials, which appear similar throughout in terms of color, texture and date of application. Building materials which were not identified as concrete, glass, wood, masonry, metal or rubber were considered suspect ACM.

3.4 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.

3.5 Sample Collection

Based on our observations, bulk samples of suspect ACMs were collected in general accordance with SCDHEC and EPA sample collection protocols. Random samples of suspect materials were collected in each homogeneous area. Bulk samples were collected using wet methods as applicable to reduce the potential for fiber release. Samples were placed in sealable containers and labeled with unique sample numbers using an indelible marker.

The selection of sample locations and frequency of sampling was based on Terracon's observations and the assumption that like materials in the same area are homogeneous in content.

A brief summary of suspect ACMs observed and sampled throughout the structure were:

CMU block coating

Non-suspect materials observed include silicon caulking and the rubber membrane roof system. Table 1 in the Appendix A which summarizes the bulk samples collected from the structure, the results of the visual inspection, estimated quantities, and laboratory analyses. Photograph documentation is presented in Appendix B.

3.6 Sample Analysis

MCAS Building 1103 | Beaufort, SC November 30, 2023 | Terracon Project No. EN237355



Bulk samples were submitted under chain of custody to EMSL Analytical Laboratories in Pineville, North Carolina for analysis by Polarized Light Microscopy (PLM) with dispersion staining techniques per EPA EPA/600/R-93/116. The percentage of asbestos, where applicable, was determined by microscopical visual estimation. EMSL is accredited under the National Voluntary Laboratory Accreditation Program NVLAP.

Per the SCDHEC Regulation 61-86.1 Standards of Performance for Asbestos Projects, negative results for non-friable organically bound (NOB) materials such as flooring and roofing shall be verified with at least one TEM analysis. The additional analysis was performed by TEM in accordance with EPA/600/R-93/116 Section 2.5.5.1.

3.7 Findings and Recommendations

Terracon collected a total of three (3) bulk samples of suspect ACMs. Based on the results of laboratory analysis, none of the materials were identified as asbestos containing materials (ACMs) defined as containing >1% asbestos.

Asbestos laboratory analytical reports, certificates of analysis with the chain of custody, are included in Appendix C.

Recommendations

If applicable to the project, a copy of this report must be submitted to SCDHEC at least ten (10) working days prior to demolition, which includes interior loadbearing walls when applying for a demolition permit.

Should suspect materials other than those which were identified during this survey be uncovered during or prior to the renovation process, those materials should be assumed asbestos-containing until sampling and analysis can confirm or refute their asbestos content. Should future sampling indicate that the other material is asbestos containing, Terracon recommends removal of the asbestos-containing materials by a South Carolina licensed asbestos abatement contractor prior to renovation/demolition of the building.

LEAD-BASED PAINT SURVEY 4.0

4.1 Regulatory Overview

Lead is regulated by the EPA, SCDHEC and OSHA. The EPA and SCDHEC regulate lead use, removal, and disposal, and OSHA regulates lead exposure to workers. The EPA defines LBP as paint, varnish, stain, or other applied coating that contains lead equal to or greater than 1.0 mg/cm², 5,000 mg/kg, or 0.5% by dry weight as determined by laboratory analysis.

MCAS Building 1103 | Beaufort, SC November 30, 2023 | Terracon Project No. EN237355



In accordance with SCDHEC solid waste regulations, accumulations of paint wastes (chips, dust, flakes, etc.) and lead contaminated products or other debris shall be tested by the Toxicity Characteristic Leachate Procedure (TCLP) prior to disposal to determine is the waste is classified as hazardous, which would require disposal in a Subtitle C Landfill. Landfills should be contacted to determine their specific disposal requirements.

For the purpose of the OSHA lead standard, lead includes metallic lead, all inorganic lead compounds, and organic lead soaps. The complete OSHA standard for compliance can be found on OSHA's website (www.osha.gov). A synopsis of the OSHA regulations (29 CFR 1926.62) and the applicability are as follows:

The OSHA Lead Standard for Construction (29 CFR 1926.62) applies to all construction work where an employee may be occupationally exposed to lead. All work related to construction, alteration, or repair (including painting and decorating) is included. The lead-in-construction standard applies to any detectable concentration of lead in paint, as even small concentrations of lead can result in unacceptable employee exposures depending upon on the method of removal and other workplace conditions. Under this standard, construction includes, but is not limited to, the following:

- Demolition or salvage of structures where lead or materials containing lead are present
- Removal or encapsulation of materials containing lead
- New construction, alteration, repair, or renovation of structures, substrates, or portions containing lead, or materials containing lead
- Installation of products containing lead
- Lead contamination/emergency clean-up
- Transportation, disposal, storage, or containment of lead or materials containing lead on the site or location at which construction activities are performed
- Maintenance operations associated with construction activities described above.

4.2 Sampling and Analytical Protocol

Mr. Langford of Terracon conducted the lead-based paint (LBP) sampling on November 9, 2023. The LBP sampling was conducted by collecting paint chip samples. The paint chip samples were collected from painted or lacquered surfaces of building components likely to contain LBP, based on apparent date of application. The paint samples were collected down to the surface substrate so as to include any underlying paint systems in the analysis. The random paint chip samples were selected based on current paint schemes and may not be inclusive of old paint systems covered with paneling, or existing painted systems. The paint chip samples were submitted to an ELAP approved laboratory for analysis of lead by NIOSH Method 7082M (atomic absorption).

MCAS Building 1103 | Beaufort, SC November 30, 2023 | Terracon Project No. EN237355



Findings and Recommendations 4.3

Based on the results of laboratory analysis, two (2) paint chip samples were collected from the interior and exterior walls. The paint chip lead analyses were below the laboratory detection limits.

Based on the scope of services, limitations, and findings of this assessment, Terracon recommends the following:

Accumulation of Paint residue/waste (chips, dust, flakes, etc.) Work involving any paint removal such as blasting or manual scraping may require laboratory testing by TCLP to characterize the waste stream and determine proper disposal requirements identified in SCDHEC solid waste regulations or any MCAS Base Environmental requirements.

The analytical report is included in Appendix C.

LIMITATIONS / GENERAL COMMENTS 5.0

This 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 renovation areas. The results included herein apply to the renovation areas described within the scope of work provided by If the renovation scope of work changes to include areas or materials other than CEMS. sampled here, additional investigations will be necessary. The information contained in this report is relevant to the date on which this survey was performed, and should not be relied upon to represent conditions at a later date.

This report has been prepared on behalf of and exclusively for use by CEMS and MCAS for specific application to their project as discussed. Terracon recommends that the client provide copies of this report to the building owner, MCAS, for future reference beyond the completion of this project. 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, express or implied is made.

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.

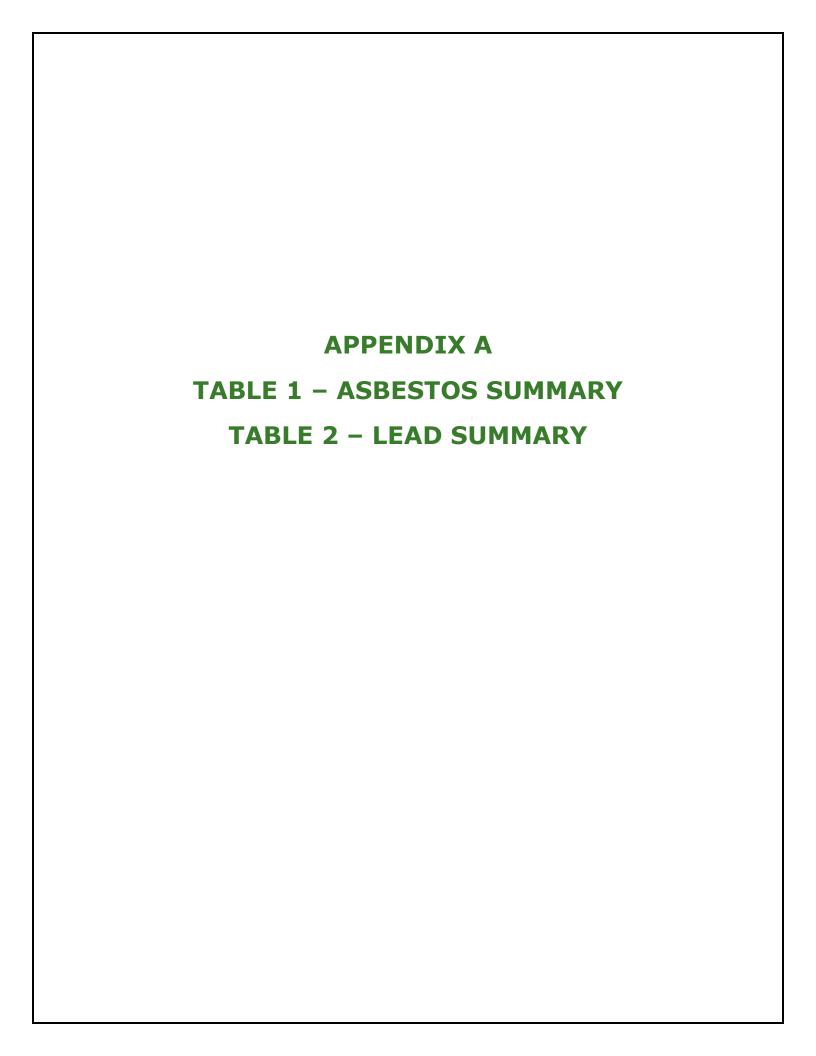


TABLE 1 ASBESTOS RESULTS SAMPLE SUMMARY MCAS BUILDING 1103

MARINE CORPS AIR STATION BEAUFORT, SOUTH CAROLINA TERRACON PROJECT NO. EN237355

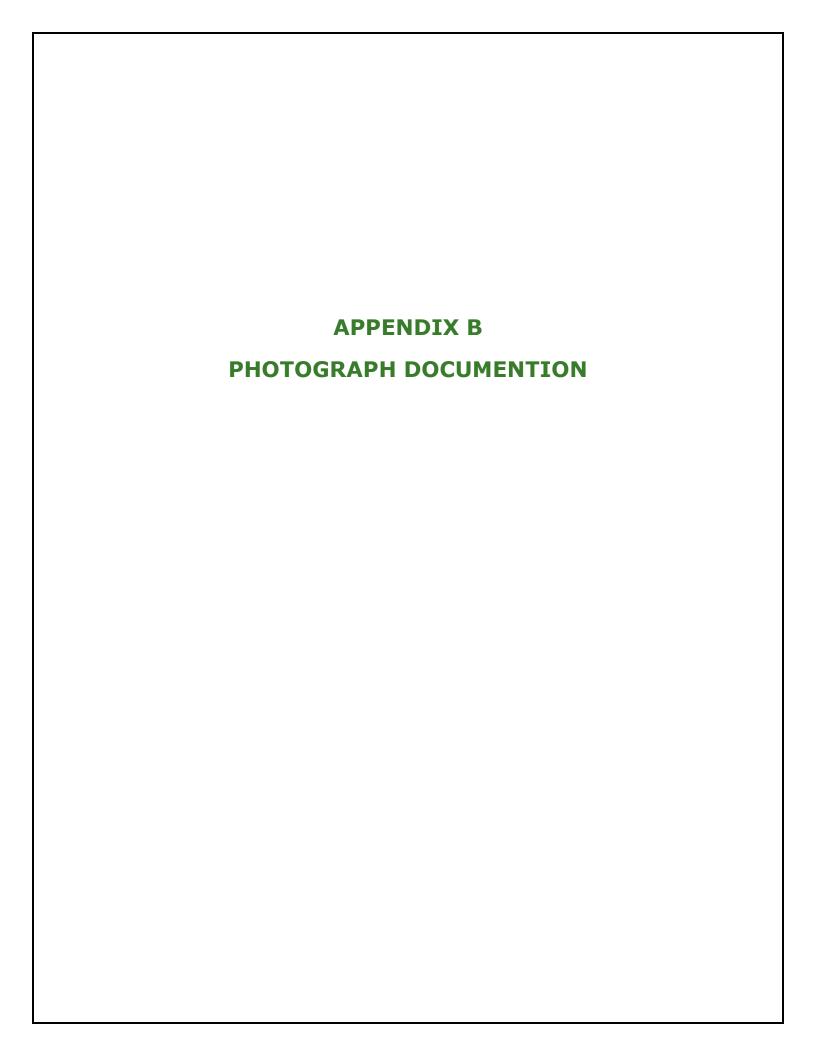
Sample Number	Sample Location	Analysis Method	Analytical Results %/Type	Sample Description	НА	Classification	Friable/Non- Friable & Current Condition	Estimated Quantity (Square Feet)
BC-01	Interior Wall	PLM	No Asbestos Dectected					
BC-02	Interior Wall	PLM	No Asbestos Dectected	CMU Block Coating	HA-01	Miscellaneous	Friable/Damaged	470 SF
BC-03	Interior Wall	TEM	No Asbestos Dectected					
	2) Quantities I		Bold and she e estimates to be used for antities listed above shoul		y and shoul		all other uses.	
HA - Homogeneous Area PLM - Polarized Light Microscopy TEM - Transmission Electron Microscopy						SF - Square Feet LF - Linear Feet		

TABLE 2 LEAD PAINT RESULTS SAMPLE SUMMARY MCAS BUILDING 1103 MARINE CORPS AIR STATION BEAUFORT, SOUTH CAROLINA TERRACON PROJECT NO. EN237355

Sample Number	Description	Location	Lab Results % wt	EPA Lead 0.5%	OSHA 1926.62
PB-01	CMU Interior Paint (Beige/Tan)	Interior Walls	<0.0080%	No	No
PB-02	CMU Exterior Paint (Beige/Tan)	Exterior Walls	<0.0080%	No	No

Notes:

- 1) Results above the EPA definition of lead concentration in paint.
- 2) Results in **BOLD** face were found above action levels. * Slightly below the EPA definition.
 - 3) OSHA Lead in Construction standard must be followed.
 - 4) Please refer to sample diagrams or photodocumnetation for sample locations.



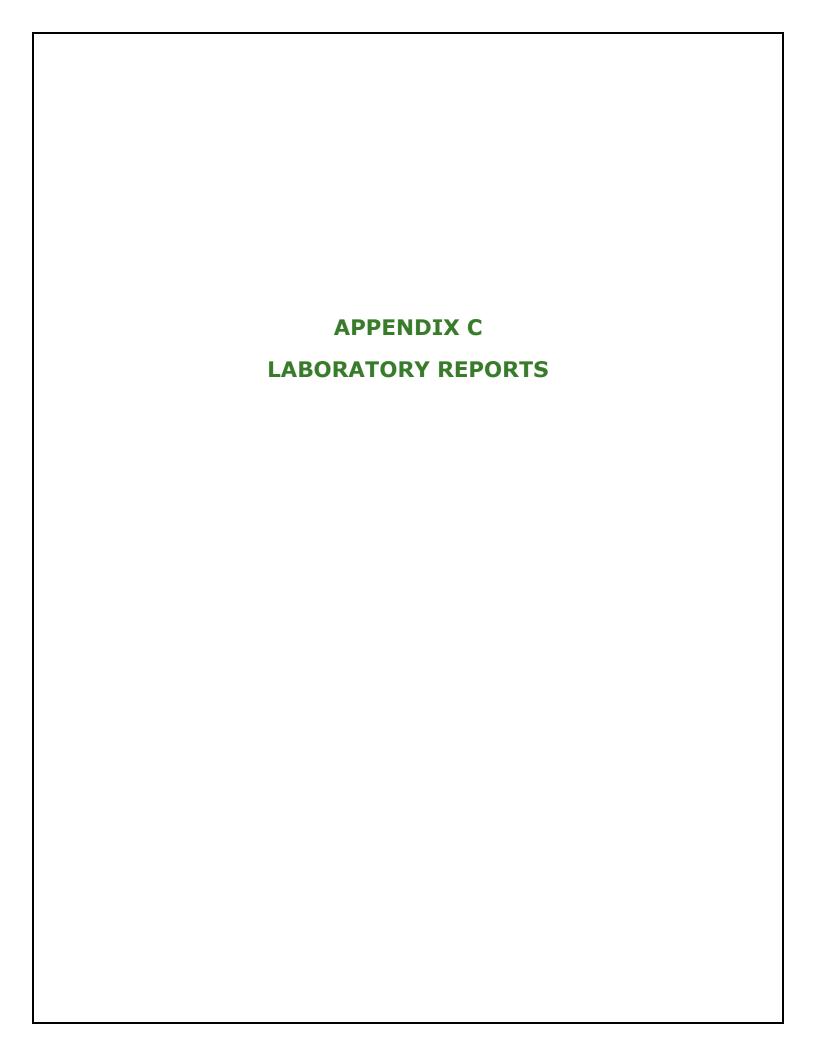
Asbestos Inspection and Lead Paint Sampling Report

MCAS - Building 1103 | Beaufort, South Carolina

Inspection Date: November 9, 2023 | Terracon Project No. EN237355









Terracon Consultants, Inc.

North Charleston, SC 29405

EMSL Order: 412313490 Customer ID: WPCE62 Customer PO: EN237355

Project ID:

Phone: (843) 442-6658

Fax: (843) 884-9234

1800 Reynolds Avenue Received Date: 11/10/2023 9:30 AM

Analysis Date: 11/10/2023

Collected Date:

Project: B1103 MCAC CEMS

Attention: Craig Langford

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-A	sbestos	<u>Asbestos</u>	
Sample	Description	Appearance	% Fibrous	% Non-Fibrous	% Type	
BC-01	CMU Block Coating	White		20% Ca Carbonate	None Detected	
		Non-Fibrous		80% Non-fibrous (Other)		
412313490-0001		Homogeneous		, ,		
BC-02	CMU Block Coating	White		20% Ca Carbonate	None Detected	
		Non-Fibrous		80% Non-fibrous (Other)		
412313490-0002		Homogeneous				

Analyst(s)

Jordan Simpson (1) Kelsie Dwyer (1) Lee Plumley, Laboratory Manager or Other Approved Signatory

Evan L Plumber

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. Pineville, NC NVLAP Lab Code 200841-0, VA 3333 00312

Initial report from: 11/10/2023 14:17:28



EMSL Order: 412313490 Customer ID: WPCE62 Customer PO: EN237355

Project ID:

Collected Date:

Attention: Craig Langford Phone: (843) 442-6658
Terracon Consultants, Inc. Fax: (843) 884-9234

1800 Reynolds Avenue Received Date: 11/10/2023 9:30 AM

North Charleston, SC 29405 Analysis Date: 11/13/2023

Project: B1103 MCAC CEMS

Test Report: Asbestos Analysis of Non-Friable Organically Bound Materials by TEM via EPA/600/R-93/116 Section 2.5.5.1

Sample ID	Description	Appearance	% Matrix Material	% Non-Asbestos Fibers	Asbestos Types
BC-03	CMU Block Coating		100.0 Other	None	No Asbestos Detected
412313490-0003		Non-Fibrous			
		Homogeneous			

Analyst(s)

Sarah Breneman (1)

Lee Plumley, Laboratory Manager or other approved signatory

Evan L Plumber

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Samples analyzed by EMSL Analytical, Inc. Pineville, NC

Initial report from: 11/13/2023 16:55:40

OrderID: 412313490



Asbestos Chain of Custody EMSL Order Number (Lab Use Only):

412313490

EMSL ANALYTICAL, INC. 10801 SOUTHERN LOOP BILVO PINEVILLE, NC 28134

> PHONE: 704-525-2205 FAX: 704-525-2382

Company : Terracon		EMSL-Bill to: Same Different If Bill to is Different note instructions in Comments**						
Street: 1800 Reynolds Avenue			Third Party Billing requires written authorization from third party.					
City: North Charleston	State/P	rovince: SC	Zip/Postal Code: 2		Country:			
Report To (Name): Craig Langford	•		Fax #:					
Telephone #: 843.442.6658			Email Address: c	raig.langford@terra	acon.com			
Project Name/Number: 13 1103	N	1CAC	CEM	5	, !			
Please Provide Results: Fax	⊠ Email	Purchase Order	ENZ37355	U.S. State Sample	s Taken: SC			
		around Time (TAT)						
	3 Hours 6 Hours 24 Hrs 3 Days 5 Days 5 Days 10 Days *For TEM Air 3 hours/6 hours, please call shead 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	e Analytical Price Guide.			
PCM - Air		TEM - Air		TEM- Dust				
☐ NIOSH 7400		AHERA 40 CFI	R, Part 763		ASTM D 5755			
☐ w/ OSHA 8hr. TWA		│		☐ Wipe - AST	Į			
PLM - Bulk (reporting limit)		EPA Level il			ication (EPA 600/J-93/167)			
PLM EPA 600/R-93/116 (<1%)		☐ ISO 10312		Soil/Rock/Ver				
☐ PLM EPA NOB (<1%)		TEM - Bulk	•		435 - A (0.25% sensitivity)			
Point Count		TEM EPA NOB		, —	435 - B (0.1% sensitivity)			
☐ 400 (<0.25%) ☐ 1000 (<0.1%)		I -	(non-friable-NY)		435 - B (0.1% sensitivity)			
Point Count w/Gravimetric		Chatfield SOP		l <u>—</u>	435 - C (0.01% sensitivity)			
☐ 400 (<0.25%) ☐ 1000 (<0.1%)			ysis-EPA 600 sec. 2	 =	EPA Protocol (Semi-Quantitative)			
NYS 198,1 (friable in NY)	i	TEM Water: EPA			EPA Protocol (Quantitative) Other:			
☐ NYS 198.6 NOB (non-friable-NY)	•	Fibers >10µm	\					
☐ NIOSH 9002 (<1%)		1	Waste 🗌 Drinking					
Che	ck For P	ositive Stop – Cle	arly Identify Hom	ogenous Group	Λ			
Samplers Name: Craig La	ngfor	d	Samplers Signatu	re: Civie C. L	anglice)			
Sample #		Sample Description	· · · · · · · · · · · · · · · · · · ·	Volume/Area HA # (Bulk				
	- 1 -	- /1						
BC %3 Cmu	14/DCK	COATING	71218	140B #0	5			
		J						
			-		-			
				-				
				-	<u>'</u>			
			, .					
i				, .				
			_					
Client Sample # /s >				Total # of Samp	nles: 5			
Relinquished (Client):	Date:	1119/23		1111101 /				
Received (Lab): hAN		Date:	11/16/23		Time: 930An FX			
Comments/Special/Instructions:	7967 3896 Son							



EMSL Analytical, Inc.

10801 Southern Loop Blvd, Pineville, NC 28134

Phone/Fax: (704) 525-2205 / (704) 525-2382

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

CustomerID:
CustomerPO:

EMSL Order:

WPCE62 EN237355

412313491

ProjectID:

Attn: Craig Langford
Terracon Consultants, Inc.
1800 Reynolds Avenue
North Charleston, SC 29405

Phone: (843) 884-1234

Fax: (843) 884-9234

Received: 11/10/2023 09:30 AM

Collected:

Project: B1103 MCAS CEMC

Test Report: Lead in Paint Chips by Flame AAS (SW 846 3050B/7000B)*

Client Sample Description	Lab ID	Collected	Analyzed	Weight	Lead Concentration
Pb-01	412313491-0001		11/10/2023	0.2589	9 <0.0080 % wt
	Site: Interior CMI	J Paint			
Pb-02	412313491-0002	1	11/10/2023	0.2595	o <0.0080 % wt
	Site: Exterior CM	IU Paint			

Aaron Hartley, Lead Technical 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.

specifications unless otherwise noted.

* Analysis following Lead in Paint by EMSL SOP/Determination of Environmental Lead by FLAA. Reporting limit is 0.008% wt based on the minimum sample weight per our SOP. "<" (less than) result signifies the analyte was not detected at or above the reporting limit. Measurement of uncertainty is available upon request. Definitions of modifications are available upon request.

Samples analyzed by EMSL Analytical, Inc. Pineville, NC AIHA LAP, LLC-ELLAP Accredited #192283

Initial report from 11/10/2023 16:01:49

OrderID: 412313491



Lead (Pb) Chain of Custody

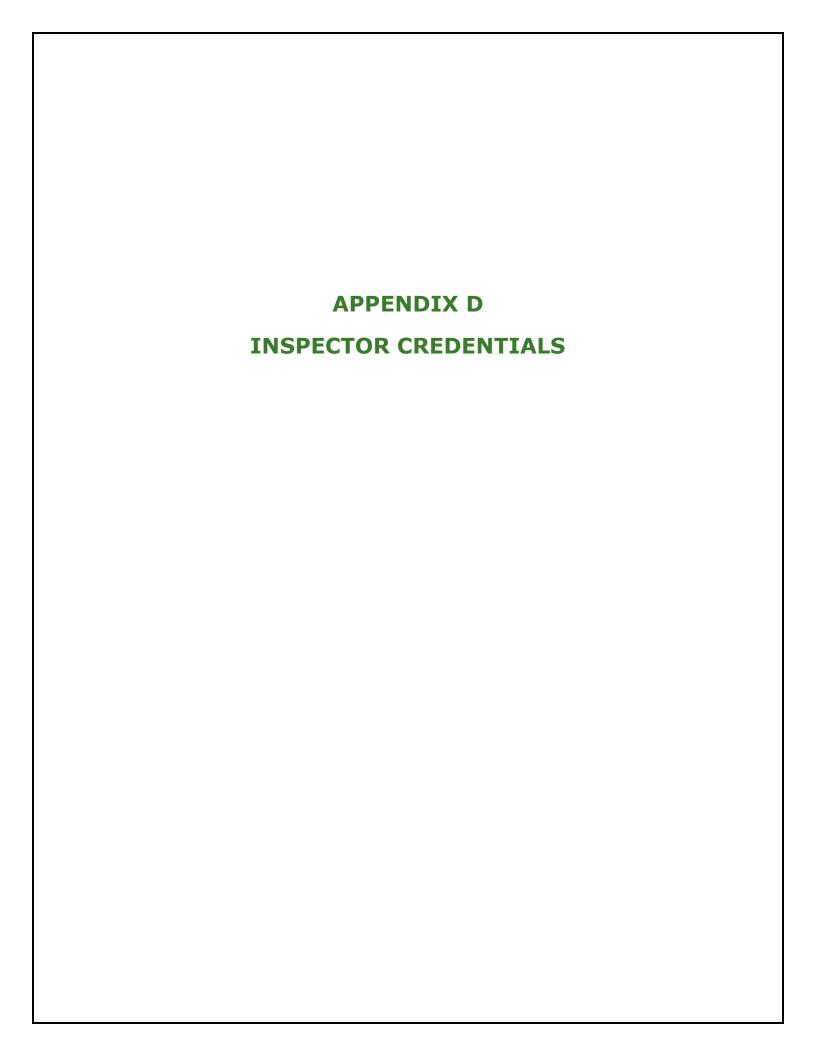
EMSL Order ID (Lab Use Only):

412313491

EMSL ANALYTICAL, INC. 10801 SOUTHERN LOOP BLVD PINEVILLE, NC 28'134 704-525-2205

Company : Terracon	EMSL-Bill to: ☐ Same ☐ Different If Bill to is Different note instructions in Comments**						
Street: 1450 Fifth Street West			Third Party Billing requires written authorization from third party				
City: North Charleston	State/Province: SC	- 2	Zip/Postal Code: 29405 Country:				
Report To (Name): Craig Langford		Fax #:					
Telephone #: 843.442.6658		1	Email Address: craig.lang	ford@terracon.com	į b		
Project Name/Number: 3//03	MCAS		CEME	· · · · · · · · · · · · · · · · · · ·			
Please Provide Results: ☐ Fax ☐ Em)rdec/	ENZ37355 U.S. St	ite Samples Taken:	;		
	naround Time (TAT) O			ite dampies raken.	1		
3 Hours 6 Hours 24 Ho	urs 48 Hours	□ 3	Days 4 Days	☐ 5 Days ☐	10 Days		
Matrix	Method	emns a	nd Conditions located in the Pri	Reporting Limit	Check		
·- <u></u>	SW846-7000B/7420		iiisu unient	Reporting Limit	Cileck		
Chips ☐ mg/cm² ☐ % by wt.	or AOAC 974.02		Flame Atomic Absorption	0.01%	\boxtimes		
Air	NIOSH 7082		Flame Atomic Absorption	4 μg/filter			
	NIOSH 7105		Graphite Furnace AA	0.03 µg/filter	<u>_</u>		
	NIOSH 7300 modified	d	ICP-AES	0.5 µg/filter			
Wipe* ☐ ASTM ☐ non ASTM	SW846-7000B/7420		Flame Atomic Absorption	10 μg/wipe			
*if no box is checked, non-ASTM Wipe is assumed	SW846-6010B or C	•	ICP-AES	0.5 μg/wipe			
TCLP	SW846-1311/7420/SM 31	111B	Flame Atomic Absorption	0.4 mg/L (ppm)			
	SW846-6010B or C		ICP-AES	0.1 mg/L (ppm)			
Soil	SW846-7420		Flame Atomic Absorption	40 mg/kg (ppm)			
	SW846-7421 SW86-6010B or C		Graphite Furnace AA	0.3 mg/kg (ppm)			
	SM3111B or		ICP-AES	1 mg/kg (ppm)	<u> </u>		
Wastewater	SW846-7000B/7420)	Flame Atomic Absorption	0.4 mg/L (ppm)			
	EPA 200.9		Graphite Furnace AA	0.003 mg/L (ppm)			
	SW846-6010B or C		JCP-AES	1 mg/kg (ppm)			
Drinking Water	EPA 200.9		Graphite Furnace AA	0.003 mg/L (ppm)			
Other:		Prese	ervation Method (Water)	:			
Name of Sampler: Craig Langford		Signa	ature of Sampler: Cinic	C. Langlow			
Sample # Loca		Ť	Volume/Area Date/Time San				
PB-01 FATERIOR CA	in Pant						
OZ Externor Co	mu Pain-						
		-		····			
			 				
					" "		
Client Sample #'s -			Total # of Sa	mples: と			
Relinquished (Client): Cure Langue Date: 11/9(27 Time: 140)							
Received (Lab):	Date:	1	16/23 Time:	930An FX	,		
Comments:	, ~		-				
			_	1967 3891 SOIL	i		
				. –	3		

Controlled Document -- Lead (Pb) COC - R1 - 3/18/2009





CRAIG C. LANGFORD, CHST, OHST

SOUTH CAROLINA DEPARTMENT OF HEALTH AND ENVIRONMENTAL CONTROL – ASBESTOS SECTION

CONSULTANT/PROJECT DESIGN - PD-00032_EXP 08/03/23
CONSULTANT/MANAGEMENT PLANNER = MP-000302 EXP 07/19/24
CONSULTANT/BUILDING INSPECTOR ASB-22775_EXP 07/19/24
AIR SAMPLER/MONITOR ASB-22599_EXP 08/01/24
SUPERVISOR SA-03094_EXP 08/02/23



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