

Asbestos & Lead-Based Paint Assessment
Carolina Crossroads 1-20/26/126 Project
Colonial Life Westbound Bridge over
Gracern Road
Structure No. 401012640071
Columbia, Richland County, South Carolina
S&ME Project No. 1461-16-047

INSPECTION PERFORMED BY:

Travis Knight & Bobby McAllister SCDHEC Lic. BI-00885 & BI-01429 Inspection Dates: February 20, 21 & March 28, 2018

- ☐ Asbestos WAS found
- □ Lead-Based Paint was NOT found
- ☐ Lead-Based Paint WAS found

PREPARED FOR

HDR Engineering Inc., of the Carolinas 4400 Leeds Avenue, Suite 450 North Charleston, SC 29405 (843) 414-3700

PREPARED BY

S&ME, Inc. 134 Suber Road Columbia, SC 29210 (803) 561-9024

May 21, 2018



May 21, 2018

HDR Engineering Inc., of the Carolinas 4400 Leeds Avenue, Suite 450 North Charleston, South Carolina 29405

Attention: Mr. David Kinard, PE

Reference: Asbestos & Lead-Based Paint Assessment

Carolina Crossroads I-20/26/126 Project

Colonial Life Westbound Bridge over Gracern Road

Structure No. 401012620072

Columbia, Richland County, South Carolina

S&ME Project No. 1461-16-047

Dear Mr. Kinard:

S&ME, Inc. (S&ME) is pleased to provide the enclosed report detailing our Asbestos and Lead-Based Paint Assessment of the Colonial Life Westbound Bridge over Gracern Road in Columbia, Richland County, South Carolina (Structure No. 401012640071). Our services consisted of an asbestos assessment and lead-based paint assessment. The work was performed in accordance with our subcontract modification dated January 24, 2018 to our Subconsultant Agreement dated August 17, 2016. The enclosed report includes the executive summary, project background, investigative procedures, findings and results, and conclusions and recommendations as necessary.

This report is provided for the use of the HDR Engineering Inc., of the Carolinas and South Carolina Department of Transportation. Use of this report by any other parties will be at such party's sole risk and S&ME, Inc. disclaims liability for any such use or reliance by third parties. The results presented in this report are indicative of conditions only during the time of the assessment.

In accordance with South Carolina Department of Health and Environmental Control Regulation 61-86.1 Standards of Performance for Asbestos Projects, this asbestos assessment report will remain valid for three years from the date of inspection (February 2021).



Columbia, Richland County, South Carolina S&ME Project No. 1461-16-047

We appreciate the opportunity to provide you with our industrial hygiene/environmental services. If you have any questions concerning this report, please call us at (803) 561-9024.

Sincerely,

S&ME, Inc.

Bobby McAllister

Asbestos Building Inspector

(SCDHEC License No. BI-01429)

Tom Behnke, P.G., CHMM

Project Manager/Senior Reviewer

(SCDHEC License No. MP-00004)

Columbia, Richland County, South Carolina S&ME Project No. 1461-16-047



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May 21, 2018

Columbia, Richland County, South Carolina S&ME Project No. 1461-16-047



Executive Summary

An asbestos assessment and lead-based paint assessment was conducted on February 19, 21 & March 28, 2018 of the Colonial Life Bridge Westbound over Gracern Road (Structure No. 401012640071) in Columbia, Richland County, South Carolina. The purpose of the assessment was to identify asbestos-containing materials (ACMs) and lead-based paint coatings associated with the structure prior to renovation or demolition activities.

The bridge consists of a one-lane concrete roadway with metal deck, steel beams, and concrete curbing resting on steel beams supported by concrete piers.

Asbestos

The asbestos assessment was performed in general accordance with the South Carolina Department of Health and Environmental Control (SCDHEC) Regulation 61-86.1, *Standards of Performance for Asbestos Projects* effective May 27, 2011. The asbestos assessment included the bulk sampling and analysis of suspect ACMs from the structure. The suspect materials identified on the bridge structure included expansion joint and textured coating.

The Environmental Protection Agency (EPA) and SCDHEC define materials as asbestos-containing if an asbestos content of greater than one percent (>1%) is detected in a representative sample. Asbestos in concentrations >1%, was **not** identified as a result of this assessment.

Lead-Based Paint

Painted surfaces associated with the bridge structure were considered suspect and analyzed for lead content. Painted surfaces exceeding the SCDHEC disposal criteria of 0.7 milligrams per square centimeter (mg/cm²) were considered lead-based paint for the purpose of this assessment. Lead-based paint was **not** identified as a result of this assessment.

Columbia, Richland County, South Carolina S&ME Project No. 1461-16-047



1.0 Introduction

S&ME was contracted to perform an asbestos assessment and lead-based paint assessment of the Colonial Life Bridge Westbound over Gracern Road in Columbia, Richland County, South Carolina. The site location and structure are identified on **Exhibits 1 & 2** in **Appendix II**. The bridge is identified as structure number 401012640071. These services were requested and authorized by the South Carolina Department of Transportation (SCDOT). We understand the bridge is scheduled for renovation and/or demolition activities. The asbestos and lead-based paint assessment was performed on February 19, 21 & March 28, 2018.

The bridge consists of a one-lane concrete roadway with metal deck, steel beams, and concrete curbing resting on steel beams supported by concrete piers. The bridge is approximately 350 feet long and 35 feet wide. Photographs of the structure are provided in **Appendix II**.

Asbestos Assessment

The asbestos assessment was performed to identify and sample suspect ACMs in accordance with regulatory requirements for structures scheduled to be renovated or demolished. Demolition and renovation activities are regulated by OSHA, EPA and SCDHEC. The EPA and SCDHEC require asbestos assessments, conducted by licensed individuals, prior to renovation and/or demolition projects. Code 40 of Federal Regulations Part 61-86.1 require asbestos assessments, followed by the proper removal, and disposal of ACM that is affected by renovation or demolition. The identification of ACMs will aid in the prevention of occupational exposures and/or environmental releases of airborne asbestos. Identification of ACM is also required by OSHA 1926.1101. The EPA, OSHA and SCDHEC define ACM as materials containing greater than one (1) percent asbestos in a representative sample. However, OSHA regulates materials containing less than or equal to one percent asbestos. Identification of ACMs also complies with Title 40 Code of the Federal Regulations, part 61, and State Regulation 61-86.1 enforced by the SCDHEC, along with Title 29 Code of Federal Regulations, part 1926 enforced by OSHA.

Section 2.0 describes the assessment procedures used, results of the suspect ACMs sampled and analyzed, confirmed ACMs located on the structure, and conclusions and recommendations regarding the subject bridge as related to ACMs.

Lead-Based Paint Assessment

The purpose of the lead-based paint assessment was to identify observable lead-based paint finishes associated with the structure which may be adversely affected by future renovation or demolition activities. The identification of these materials will aid in the compliance of occupational exposure (OSHA) and/or environmental releases of airborne lead dust in accordance with 29 CFR 1926.62 (Lead in Construction) and provide information to facilitate proper disposal of lead-based paint coated components and debris in accordance with the SCDHEC and EPA.

2.0 Asbestos Assessment

2.1 Assessment Procedures

The asbestos assessment was performed by observing and collecting random samples of suspect asbestos-containing materials associated with the subject bridge structure. Significant destructive investigative techniques

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and sampling was not performed as part of this assessment. Consequently, the possibility exists that suspect materials were not detected in inaccessible areas such as pipe chases, voids, or in areas deemed unsafe to enter by the asbestos inspector. If additional suspect materials are discovered during future renovation or demolition activities, destructive actions to the suspect ACM should not proceed until bulk samples are collected and analyzed for asbestos content.

Suspect ACMS that were observed and sampled consist of expansion joint and textured coating.

To comply with current SCDHEC Regulations, a sampling strategy was developed to provide representative samples of suspect asbestos-containing materials in accordance with OSHA, SCDHEC and EPA. Bulk samples were then extracted from suspect ACMs and recorded on a chain of custody record and submitted to EMSL's asbestos laboratory in Pineville, North Carolina for analysis via the following method:

Polarized Light Microscopy (PLM)

The suspect materials were analyzed by trained microscopists using PLM techniques coupled with dispersion staining in accordance with EPA Test Method Title 40 Code of Federal Regulations, Chapter I (1-1-87 edition), Part 763, Subpart F-APPENDIX A. This method identifies asbestos mineral fibers based on six optical characteristics: morphology, birefringence, refractive index, extinction angle, sign of elongation and dispersion staining colors. The laboratory analysis reports the specific type of asbestos identified (there are six asbestos minerals) and the percentage of asbestos presents.

Transmission Electron Microscopy (TEM)

In accordance with SCDHEC Regulation 61-86.1, Transmission Electron Microscopy (TEM) confirmation analysis is required to be performed on one sample of any non-friable organically bound material (NOB) that tests negative via PLM analysis. The TEM analysis was performed by EMSL using EPA 600 Method in accordance with ASTM E2356.

Both the PLM and the TEM laboratories are accredited by the National Voluntary Laboratory Accreditation Program (NVLAP), which is administered by the National Institute of Standards and Technology.

2.2 Findings and Results

The asbestos assessment conducted on February 19 & 21, and March 28, 2018 included the quantification and random bulk sampling of various suspect asbestos-containing materials associated with the bridge structure. The suspect materials consisted of expansion joint and textured coating. No drain scuppers were observed on the structure. The EPA and SCDHEC define materials as asbestos-containing if an asbestos content >1% is detected in a representative sample. In accordance with SCDHEC Regulation 61-86.1, TEM analysis was performed on one sample of each of the following non-friable, organically-bound (NOB) materials collected from the bridge that displayed a result of no asbestos detected via PLM analysis:

Expansion joint

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Of the representative materials sampled and analyzed during this assessment, asbestos in concentrations >1% was **not** identified.

A table summarizing the sample number, location, type of material tested, approximate quantity of the material sampled, condition of the material, and corresponding result for each sample is provided in **Appendix I**. Site Exhibits and photographs are provided in **Appendix II**. A copy of the inspector's SCDHEC license is provided in **Appendix V**.

3.0 Lead-Based Paint Assessment

3.1 Assessment Procedures

The lead-based paint assessment was conducted for compliance with the SCDHEC limit of 0.7 milligrams per square centimeter (mg/cm²) of painted surface for lead-based paint coated waste. SCDHEC, Health Division defines lead-based paint as a coating containing lead in quantities ≥0.7 mg/cm² (SCDHEC, Health Division definition #4-53-1320f). Any coated surfaces meeting or exceeding the SCDHEC limit of 0.7 mg/cm² were considered lead-based paint for the purpose of this assessment.

OSHA does not recognize a threshold level of lead for definition purposes, only the presence or absence of lead. The current OSHA regulations recognize an airborne action level of thirty micrograms of lead per cubic meter of air (30 μ g/m³) during an eight-hour day and a permissible exposure level of fifty micrograms per cubic meter (50 μ g/m³).

Representative covered components and surfaces were analyzed utilizing a Niton XLp-300A X-Ray Fluorescence (XRF) spectrum analyzer (serial #95004). The suspect painted finishes were selected based on the color of the topcoat and the underlying paint layers and/or the substrate on which it was applied.

3.2 Findings and Results

Coated surfaces associated with the bridge structure were tested for the presence of lead-based paint. The coated surfaces meeting or exceeding the SCDHEC limit of 0.7 mg/cm² were considered lead-based paint for the purpose of this assessment. None of the tested surfaces were reported to have lead concentrations in excess of the SCDHEC 0.7 mg/cm² limit.

The summary of the XRF readings is provided in **Appendix IV**.

4.0 Conclusions and Recommendations

Based on the findings of this assessment, we provide the following conclusions and recommendations:

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4.1 Asbestos

No asbestos containing materials were identified on the structure. If additional suspect materials are discovered during future renovation or demolition activities, destructive actions to the suspect ACM should not proceed until bulk samples are collected and analyzed for asbestos content.

4.2 Lead-Based Paint

No tested coatings exceeded the SCDHEC 0.7 mg/cm² limit for lead-based paint.

The client is advised that OSHA does not recognize a threshold level of lead for definition purposes, only the presence or absence of lead. Consequently, the OSHA regulations governing worker protection for lead-based paint may apply to work practices including the disturbance of paint systems with detectable levels of lead. Destructive actions (sanding, burning, demolition, component removal, paint preparation) to the lead-containing paint surfaces will require the contractor comply with the standards of OSHA, including but not limited to initial exposure monitoring, the use of personal protective equipment, and medical surveillance.

SCDHEC Regulation 61-107.19 permits demolition materials painted with lead-based paint (≥ 0.7 mg/cm²) to be disposed in a permitted Class Two (C&D) or Class Three Subtitle D, Municipal Solid Waste (MSW) landfill.

Accumulations of paint waste (chips, dust, or flakes) must be tested by the Toxicity Characteristic Leaching Procedure (TCLP) to determine if the waste is classified as hazardous, which requires disposal in a Subtitle C (hazardous waste) landfill. Lead waste, at a minimum, must be disposed in a Class Two or Three landfill.

5.0 Limitations

This report is provided for the sole use of the Client. Use of this report by any other parties will be at such party's sole risk, and S&ME disclaims liability for any such use or reliance by third parties. The results presented in this report are indicative of conditions only during the time of the sampling period and of the specific areas referenced. Under no circumstances is this report to be used as a bidding document, or as a project design or specification.

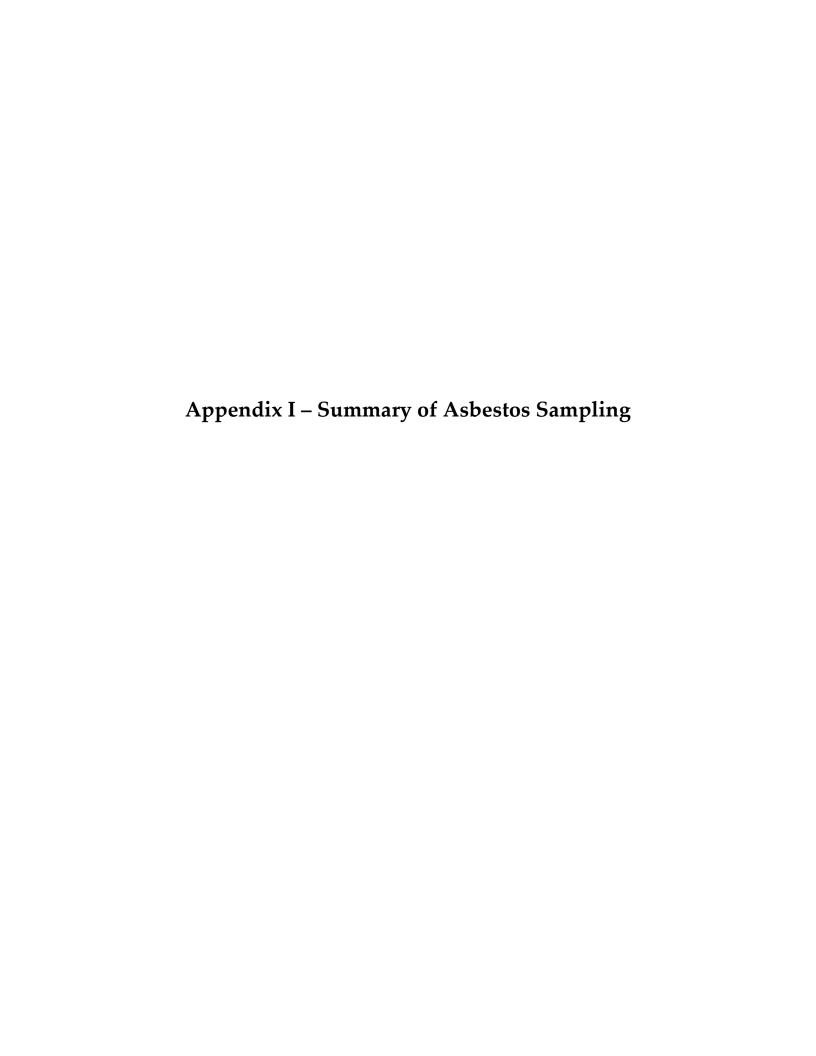
S&ME performed the services in accordance with generally accepted practices of reputable environmental consultants undertaking similar studies at the same time and in the same geographical area. S&ME has endeavored to meet this standard of care. No other warranty, expressed or implied, is intended or made with respect to this report or S&ME's services. Users of this report should consider the scope and limitations related to these services when developing opinions as to risks associated with the site. Additional limitations to our survey are as follows:

Significant destructive sampling was not performed during the asbestos survey. Additional suspect ACMs
may be present in inaccessible locations such as materials encased in concrete. Consequently, if
additional suspect materials are discovered during future renovation or demolition activities, bulk samples
must be collected and analyzed for asbestos content.

Columbia, Richland County, South Carolina S&ME Project No. 1461-16-047







Summary of Asbestos Sampling

Project Name:	Colonial Life Westbound over Gracern Road	Project Number:	1461-16-047
Location:	Columbia, Richland County, South Carolina	Sampling Date(s):	February 19 & 21, 2018

Table I-I Summary of Asbestos Sampling

Sample No.	Sample Location	Material	Approx. Quantity ¹	Asbestos Type	%°2	Conditio n	P.F.D. ³	H.A.4
EJ-1	Joint at slope of foot	Expansion joint		NAD	NA	NA	NA	NA
EJ-2	Concrete retaining wall side	Expansion joint	1,000 SF	NAD	NA	NA	NA	NA
EJ-3 (TEM)	Concrete retaining wall side	Expansion joint	1,000 3F	NAD	NA	NA	NA	NA
TC-1	Retaining wall	Textured coating		NAD	NA	NA	NA	NA
TC-2	Retaining wall	Textured coating		NAD	NA	NA	NA	NA
TC-3	Retaining wall	Textured coating		NAD	NA	NA	NA	NA
TC-4	Retaining wall	Textured coating	5,600 SF	NAD	NA	NA	NA	NA
TC-5	Retaining wall	Textured coating		NAD	NA	NA	NA	NA
TC-6	Retaining wall	Textured coating		NAD	NA	NA	NA	NA
TC-7	Retaining wall	Textured coating		NAD	NA	NA	NA	NA

SF = square feet

NAD = No Asbestos Detected

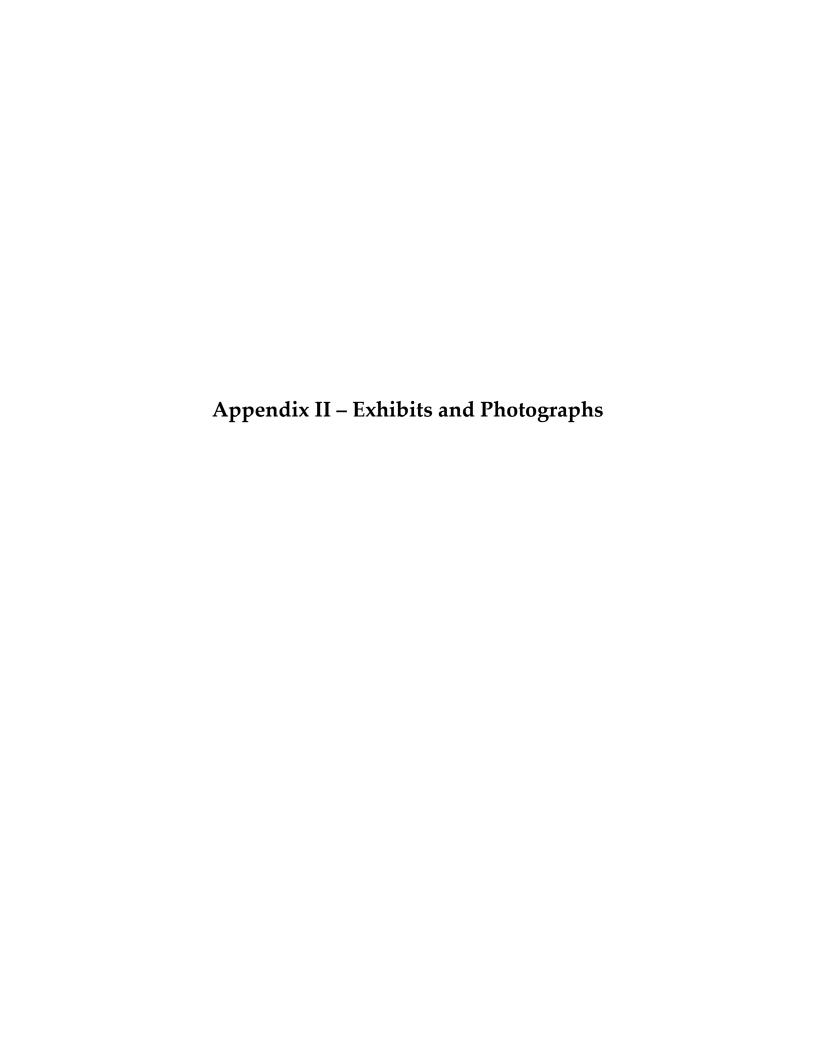
NA = Not Applicable

Note 1: Estimated quantities. The quantities should not be used for bidding purposes, as field conditions should be verified.

Note 2: The EPA, SCDHEC and OSHA define a material as asbestos-containing if an asbestos content greater than one percent (>1%) is detected in a representative sample.

Note 3: Potential for Disturbance

Note 4: Hazard Assessment



PLEASE NOTE THIS EXHIBIT IS FOR INFORMATIONAL PURPOSES ONLY. IT IS NOT MEANT FOR DESIGN, LEGAL, OR ANY OTHER USES. THERE ARE NO GUARANTEES ABOUT ITS ACCURACY. S&ME, INC. ASSUMES NO RESPONSIBILITY FOR ANY DECISION MADE OR ANY ACTIONS TAKEN BY THE

REFERENCE:



View of the Colonial Life Westbound over Gracern.



View of the underside of the bridge. Shows steel beams, metal decking and concrete piers.



The bridge is identified as structure # 401012640071.



Textured coating located on retaining wall tested negative for asbestos via PLM analysis.



Site Photographs
Colonial Life Westbound over Gracern Road
Structure No. 401012640071
Columbia, Richland County, South Carolina

S&ME Project 1461-16-047

Taken by: B. McAllister & T. Knight Date: February 19, 21 & March 28, 2018



Expansion joint located on concrete retaining wall and the joint at the slope and foot tested negative for asbestos via PLM and TEM analysis.



No scuppers were observed during the assessment of the bridge.



Appendix III – Asbestos Bulk Sample Analysis Sheets and Chain of Custody Record



Attention: Travis Knight

S&ME, Inc.

134 Suber Rd.

Columbia, SC 29210

EMSL Order: 411801410 **Customer ID:** S&ME50 **Customer PO:** 1461-16-047 P

Project ID:

Phone: (803) 561-9024

Fax: (803) 561-9177

Received Date: 02/22/2018 9:35 AM

Analysis Date: 02/23/2018 **Collected Date**: 02/19/2018

Project: Colonial Life WB over Gracern/ I-126

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

			Non-Asbe	stos	<u>Asbestos</u>
Sample	Description	Appearance	% Fibrous	% Non-Fibrous	% Type
EJ-1	Joint at Slope & Foot - Expansion Joint	Non-Fibrous Homogeneous	75% Cellulose	25% Non-fibrous (Other)	None Detected
411801410-0001					
EJ-2	Conc. Retaining Wall - Side - Expansion	Black Fibrous	60% Cellulose	40% Non-fibrous (Other)	None Detected
411801410-0002	Joint	Homogeneous			
TC-1	Retaining Wall - Textured Coating	Gray Non-Fibrous	1% Cellulose	15% Ca Carbonate 84% Non-fibrous (Other)	None Detected
411801410-0003		Homogeneous			
TC-2	Retaining Wall - Textured Coating	Gray Non-Fibrous		25% Quartz 75% Non-fibrous (Other)	None Detected
411801410-0004		Homogeneous			
TC-3	Retaining Wall - Textured Coating	Gray/Tan Non-Fibrous	1% Cellulose	99% Non-fibrous (Other)	None Detected
411801410-0005		Homogeneous			
TC-4	Retaining Wall - Textured Coating	Gray Non-Fibrous		5% Quartz 95% Non-fibrous (Other)	None Detected
411801410-0006		Homogeneous			
TC-5	Retaining Wall - Textured Coating	Gray Non-Fibrous		5% Quartz 95% Non-fibrous (Other)	None Detected
411801410-0007	· ····································	Homogeneous		(
TC-6	Retaining Wall -	Gray		5% Quartz	None Detected
100	Textured Coating	Non-Fibrous		95% Non-fibrous (Other)	
411801410-0008		Homogeneous		,	
TC-7	Retaining Wall -	Gray		5% Quartz	None Detected
	Textured Coating	Non-Fibrous		95% Non-fibrous (Other)	
411801410-0009	C	Homogeneous		,	

Analyst(s)

Aaron Hartley (6) Lacy Searcy (3) Lee Plumley, Laboratory Manager or Other Approved Signatory

Evan L Plumber

EMSL maintains liability limited to cost of analysis. This report relates only to the samples reported 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. Interpretation and use of test results are the responsibility of the client. 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. Samples received in good condition unless otherwise noted. Estimated accuracy, precision and uncertainty data available upon request. Unless requested by the client, building materials manufactured with multiple layers (i.e. linoleum, wallboard, etc.) are reported as a single sample. Reporting limit is 1%

Samples analyzed by EMSL Analytical, Inc. Pineville, NC NVLAP Lab Code 200841-0, VA 3333 00312

Initial report from: 02/23/2018 13:14:11



Attention: Travis Knight

S&ME, Inc.

134 Suber Rd.

EMSL Order: 411801410 **Customer ID:** S&ME50 **Customer PO:** 1461-16-047 P

Project ID:

Phone: (803) 561-9024 Fax: (803) 561-9177

Received Date: 02/22/2018 9:35 AM

Analysis Date: 02/27/2018 **Collected Date:** 02/19/2018

Project: Colonial Life WB over Gracern/ I-126

Columbia, SC 29210

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
EJ-3 411801410-0010	Conc. Retaining Wall - Side - Expansion Joint	Black Fibrous	100	None	No Asbestos Detected
		Homogeneous			

Analyst(s)

Aaron Hartley (1)

Lee Plumley, Laboratory Manager or other approved signatory

Evan L Plumber

This laboratory is not responsible for % asbestos in total sample when the residue only is submitted for analysis. The above report relates only to the items tested. This report may not be reproduced, except in full, without written approval by EMSL Analytical, Inc. Samples received in good condition unless otherwise noted. Unless requested by the client, building materials manufactured with multiple layers (i.e. linoleum, wallboard, etc.) are reported as a single sample.

Samples analyzed by EMSL Analytical, Inc. Pineville, NC

Initial report from: 02/27/2018 13:01:28

OrderID: 411801410



Asbestos Bulk Building Material Chain of Custody

EMSL Order Number (Lab Use Only):

411801410

10801 Southern Loop Blvd

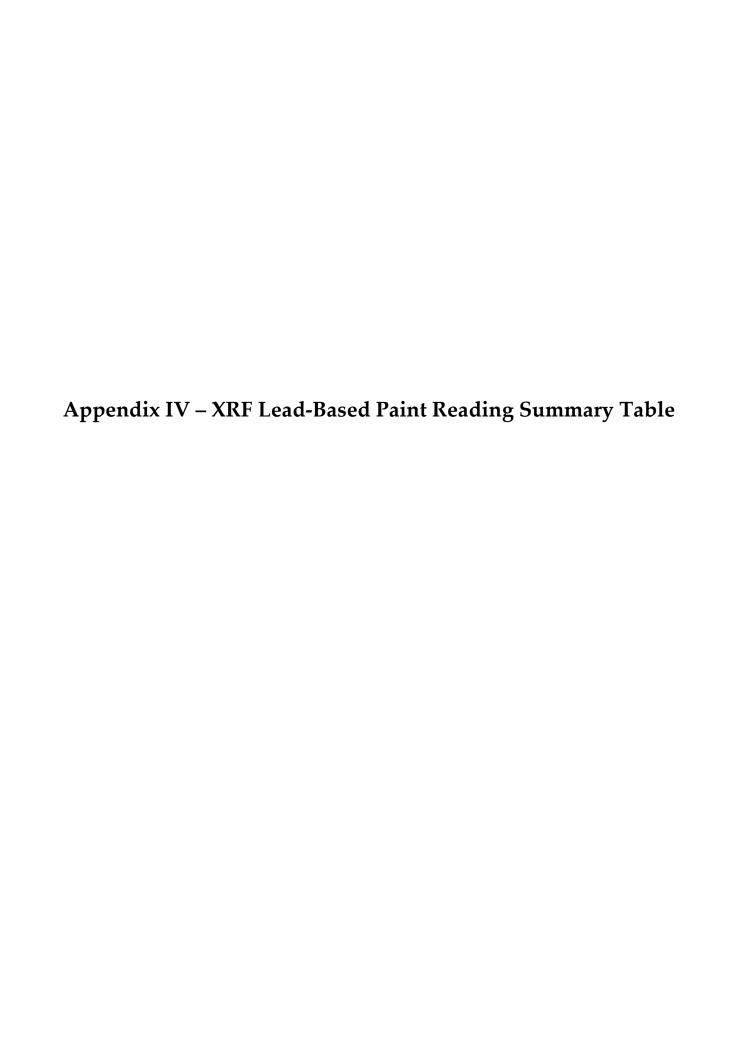
Pineville, NC 28134

EMSL Analytical, Inc.

PHONE: (704) 525-2205 FAX: (704) 525-2382

Company :	S&ME,	Inc.			EMSL-Bill to: ☑ Same ☐ Different If Bill to is Different note instructions in Comments**							
Street: 134					Third Party Billing requires written authorization from third party							
City: Colur	nbia		State/Province: SC	Z	Zip/Postal Code			untry: US				
Report To	(Name):	Travis Knight	•		elephone #: 80	AND SHARE SHOWN IN THE SHOW IN THE SHARE SHOWN IN THE SHARE SHARE SHOWN IN THE SHARE SHARE SHARE SHOWN IN THE SHARE						
		night@smeinc.c	om	-	Fax #: 803-561-9177 Purchase Order: 1461-16-047							
Project Na	me/Num	ber: Colonis 1 L	ife UB over 1.126	_	Please Provide			Email	Mail			
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3 Hour		6 Hour	Turnaround Time (1 24 Hour		T		10	1 Maak	□ 2 Week			
*For TEM Air	3 hr throu	gh 6 hr, please call al	nead to schedule.*There is a p	remiu	72 Hour m charge for 3 Hou	ur TEM AHERA or E	PA Level	1 Week	will be asked to sign			
an au	uthorization	form for this service.	Analysis completed in accor	rdance	with EMSL's Tern	ns and Conditions lo	cated in t	he Analytical	Price Guide.			
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□ PLM EP		93/116 (<1%)				- EPA 600/R-93	7116 Se	ection 2.5.5	0.1			
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			.25%) 1000 (<0.1%)		Chatfield Protocol (semi-quantitative) TEM % by Mass – EPA 600/R-93/116 Section 2.5.5.2							
		,	25%) 🔲 1000 (<0.1%)		☐ TEM % by Mass – EPA 600/R-93/116 Section 2.5.5.2 ☐ TEM Qualitative via Filtration Prep Technique							
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☐ Check F	or Posit	ive Stop – Clearl	y Identify Homogenous	Gro	up Date Sam	npled: 2/191	IR :	2/21	18			
Samplers I	Name: T	ravis Knigh	nt		Samplers Sig			>				
Sample #	HA#		Sample Location				Matoria	Descripti	ion			
- Campion	1175 #		Cample Location		Material Description							
		Plea	se See Attached	CC	OC							
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Client Sam	ple # (s)	:	•			Total #	of Sam	ples:				
Relinquish	ed (Clier	nt):	Da	te:	2/2/1/	8		Time:	1600			
Received (yke Nlson	Da	te:	2/22/18			Time:	7:35 AM F/x			
NOB = 2 PLMs	and 1 TEM if	instructions: both PLMs are negative.					7954	3428	1410			

OrderID: 413	જ		COMMENTS / SPECIAL INSTRUCTIONS	1000														
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Chain of Custody Record	PROJECT NO. PROJECT NAME: Colonies Lite W.B. ouer	(21, 2/18) DATE TAKEN 2/11/		Expension Soint	7	Textured Cocting												
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XRF LEAD-BASED PAINT READING SUMMARY TABLE

Serial #95004

PAINT

Project No.: 1461-16-047

Site: Colonial Life Westbound over Gracern Road

Date: February 19 & March 28, 2018 Ranges (NEG<INC<POS): Device PCS



Reading Number	Floor/Area	Room	Feature	Substrate	Condition	Color	Result	XRF Reading (mg/cm²)
98	Bridge		I-Beam	Metal	Good	Green	Negative	<lod< td=""></lod<>
99	Bridge		Plate	Metal	Good	Green	Negative	<lod< td=""></lod<>
22	Bridge		Yellow stripe	Asphalt	Poor	Yellow	Negative	<lod< td=""></lod<>
23	Bridge		White stripe	Asphalt	Poor	White	Negative	<lod< td=""></lod<>

Append	ix V – Copy of SDI	HEC Inspectors' L	icenses



South Carolina Department of Health and Environmental Control

Asbestos License

Bobby J. McAllister

SCDHEC ISSUED

Asbestos ID Card

Bobby Mcallister



CONSULTBI BI-01429
AIRSAMPLER AS-00450
SUPERAHERA SA-02404

Expiration Date: 04/24/19 01/08/19 01/08/19



South Carolina Department of Health and Environmental Control

Asbestos License

Owen R. Astwood

SCDHEC ISSUED

Asbestos ID Card

Owen R Astwood

Expiration Date



CONSULTBI BI-00475 08/16/18 SUPERAHERA SA-01241 07/17/18 AIRSAMPLER AS-00226 07/17/18 CONSULTPD PD-00085 05/04/18