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**Charleston Area Office**  
1704 Redwood Drive  
Moncks Corner, SC 29461  
(843) 499-2756

wmbeconsultants.com

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## Addendum No. 1

Date Issued: June 12, 2018

Project: USC Upstate Media Building Roof Replacements  
USC Upstate, 800 University Way  
Spartanburg, South Carolina, 29303

USC Project Number: H34-I379

WMBE Project Number: 2017-137

Attachment: 1. Pre-Bid Sign In Sheet  
2. Questions & Answers  
3. Media Center Asbestos Inspection Report

This addendum modifies the Contract Documents as stated herein and shown on any accompanying drawings or attachments and is part of the Contract Documents.

Bidder shall acknowledge receipt of all addenda issued in the space provided on the Bid Form. Failure to acknowledge addenda may result in the bidders bid being rejected as non-responsive.

This addendum consists of 20 pages including attachments.

1. Changes to Bidding Requirements: None
2. Changes to Specifications: None
3. Changes to Drawings: None.

**End of Addendum No. 1**





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## Questions and Answers

1. Question: Can Contractors visit the project site after the pre-bid meeting has adjourned?

Answer: Yes. Contact Cody Godfrey, USC Upstate Project Manager @ (864) 921-0077 or Chris Waites of WM Building Envelope Consultants @ (803) 260-4532.

2. Question: Are the satellite dishes to be removed permanently from the roof area?

Answer: For bidding purposes, assume that they are to be removed permanently from the roof area and disposed of by the successful Contractor.



## **LIMITED ASBESTOS INSPECTION REPORT**

**FOR**

### **UNIVERSITY OF SOUTH CAROLINA UPSTATE**

**800 University Way  
Spartanburg, South Carolina 29303**

### **LOCATION**

**Media Center Roof  
USC Upstate  
Spartanburg, South Carolina**

**INSPECTION DATE: December 4, 2017**

**REPORT DATE: December 13, 2017**

### **INSPECTOR**

**Dustin Henderson – SC-DHEC License #BI-01510  
(864) 541-8736**

**For**

**Crossroads Environmental, LLC  
1258 Boiling Springs Road  
Spartanburg, South Carolina 29303  
(864) 541-8736  
CRE Project #15639-IN**

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December 13, 2017

Mr. Cody Godfrey  
University of South Carolina Upstate  
800 University Way  
Spartanburg, SC 29303

Re: Limited Asbestos Inspection Report  
USC Upstate, Media Center Roof  
CRE Project Number: 15639-IN

Dear Mr. Godfrey:

Crossroads Environmental, LLC (CRE) completed an asbestos inspection of the Media Center Roof, located on the campus of the University of South Carolina Upstate at 800 University Way in Spartanburg, South Carolina on December 4, 2017. The inspection was performed by a SC-DHEC Licensed Asbestos Inspector, and in accordance with South Carolina Department of Health and Environmental Control (SC-DHEC) and Environmental Protection Agency (EPA) Requirements. **A detailed summary table of the sampling is included in Attachment I; however, this report should be read in its entirety.**

### **Building Description**

The Media Center is centrally located on the campus of the University of South Carolina Upstate. The structure is broken up into three different sections, totaling to be approximately 16,000 square feet in size, and features a tar and gravel roof system. The scope of work was limited to sampling all suspect asbestos-containing materials that would be impacted by replacement of the roof system.

### **Inspection Strategy/Sampling Protocol**

The inspection consisted of grouping suspect asbestos containing materials into homogeneous areas based on the color and texture of the material, and then performing representative sampling of the materials included in those homogeneous areas. SC-DHEC has requirements for the minimum number of samples that can be collected from each homogeneous area (three samples of each miscellaneous material, three samples of each type of thermal system insulation, and the sample requirements for surfacing are based on square footage). Following completion of the on-site inspection/sampling, samples were submitted to an accredited laboratory for analysis.

As of June 27, 2008, SC-DHEC requires that any non-friable organically bound (NOB) material that is suspect to contain asbestos, such as floor tile, mastics, roofing material, and caulking must be analyzed by transmission electron microscopy (TEM) if polarized light microscopy (PLM) analyses of that material indicate that no asbestos was detected.

### **Results**

EPA recognizes a material as Asbestos Containing Material (ACM) if an asbestos content of greater than one percent asbestos is detected in a representative sample analyzed by polarized light microscopy.

**Results indicated that no asbestos was detected in any of the materials sampled.**

### **Closing Statements and Limitations**

If any materials are scheduled to be disturbed that were not included in this inspection, then they should be sampled prior to disturbance.

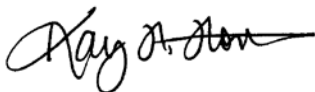
This document has been prepared by Crossroads Environmental, LLC at the request of and for the exclusive use of the University of South Carolina Upstate. This report represents the findings from the date that it was inspected, and is limited in scope to that indicated above.

Crossroads Environmental, LLC appreciates the opportunity to provide the University of South Carolina Upstate with our consultative services. Should you have any questions or need additional information, please do not hesitate to contact us.

Sincerely,



Dustin Henderson  
Licensed Inspector



Kay H. Horton  
President

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**ATTACHMENT I**  
**ASBESTOS SUMMARY TABLE**



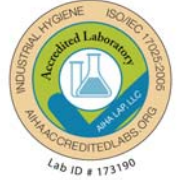
CROSSROADS ENVIRONMENTAL, LLC ASBESTOS INSPECTION REPORT							CRE JOB #: 15639-IN			
Location:		Media Center Roof								
Client:		University of South Carolina, Upstate						DATE: December 4, 2017		
<b>Key: A=Amosite, C=Chrysotile, Cr=Crocidolite, Tr=Tremolite, Ac=Actinolite Asbestos, Misc.=Miscellaneous, HA#=Homogeneous Area #, PLM=Polarized Light Microscopy, TEM=Transmission Electron Microscopy, /=PLM and/or TEM Analysis Not Required</b> <b>sq.ft.=Square Feet, cu.ft.=Cubic Feet, In.ft.=Linear Feet, HJI=Hard Joint Insulation, TSI=Thermal System Insulation, BUR=Built-up Roofing, Surf=Surfacing</b> <b>NAD=No Asbestos Detected, SP=Stop Positive</b>										
HA#	Type of Material TSI, Surf, Misc.	Material Type	Sample Number	Asbestos Content (PLM)	Asbestos Content (TEM)	Location of Sample	Approx. Quantity	Physical Condition	Location/ Comments	
01	Misc.	Tar & Gravel Roof System	201 Built Up Roof	NAD	/	Roof Section 1	16,000 sq. ft.	Good; Non-Friable	Located as the roof of the Media Center.	
			201 Foam	NAD	/					
			201 Insulation	NAD	/					
			202 Built Up Roof	NAD	/	Roof Section 2				
			202 Foam	NAD	/					
			202 Insulation	NAD	/					
203 Built Up Roof	/	NAD	Roof Section 3							
203 Foam	/	NAD								
203 Insulation	/	NAD								
02	Misc.	Perimeter Flashing	204	NAD	/	Roof Section 1	800 In. ft.	Good; Non-Friable	Located along the perimeter of roof sections 1 & 2 on the Media Center	
			205	NAD	/	Roof Section 2				
			206	/	NAD	Roof Section 2				
03	Misc.	Mechanical Flashing	207	NAD	/	Roof Section 2	30 sq. ft.	Good; Non-Friable	Located only on roof section 2, of the Media Center.	
			208	NAD	/	Roof Section 2				
			209	/	NAD	Roof Section 2				
04	Misc.	Black Sealant	210	NAD	/	Roof Section 1	N/A	Good; Non-Friable	Located in limited areas at penetrations of each roof section of the Media Center.	
			211	NAD	/	Roof Section 2				
			212	/	NAD	Roof Section 3				

**ATTACHMENT II**  
**LABORATORY REPORT(S)**



# Bulk Asbestos Analysis

By Polarized Light Microscopy  
EPA Method: 600/R-93/116 and 600/M4-82-020



**Customer:** Crossroads Environmental LLC  
1258 Boiling Springs Rd  
Spartanburg, SC 29303

**Attn:** Kay Horton

**Lab Order ID:** 1725716  
**Analysis ID:** 1725716\_PLM  
**Date Received:** 12/5/2017  
**Date Reported:** 12/6/2017

**Project:** 15639-IN

Sample ID	Description	Asbestos	Fibrous Components	Non-Fibrous Components	Attributes
Lab Sample ID	Lab Notes				Treatment
201 - A	Tar & Gravel Roof. Roof Field	None Detected	15% Cellulose	85% Other	Black Non Fibrous Homogeneous
1725716PLM_1	built up roofing				Dissolved
201 - B	Tar & Gravel Roof. Roof Field	None Detected		100% Other	Yellow Non Fibrous Homogeneous
1725716PLM_13	foam				Dissolved
201 - C	Tar & Gravel Roof. Roof Field	None Detected	99% Cellulose	1% Other	Tan Fibrous Homogeneous
1725716PLM_14	insulation				Teased
202 - A	Tar & Gravel Roof. Roof Field	None Detected	15% Cellulose	85% Other	Black Non Fibrous Homogeneous
1725716PLM_2	built up roofing				Dissolved
202 - B	Tar & Gravel Roof. Roof Field	None Detected		100% Other	Yellow Non Fibrous Homogeneous
1725716PLM_15	foam				Dissolved
202 - C	Tar & Gravel Roof. Roof Field	None Detected	99% Cellulose	1% Other	Tan Fibrous Homogeneous
1725716PLM_16	insulation				Teased
203 - A	Tar & Gravel Roof. Roof Field	Not Analyzed			
1725716PLM_3	built up roofing - TEM				
203 - B	Tar & Gravel Roof. Roof Field	Not Analyzed			
1725716PLM_17	foam - TEM				

**Disclaimer:** Due to the nature of the EPA 600 method, asbestos may not be detected in samples containing low levels of asbestos. We strongly recommend that analysis of floor tiles, vermiculite, and/or heterogeneous soil samples be conducted by TEM for confirmation of "None Detected" by PLM. This report relates only to the samples tested and may not be reproduced, except in full, without the written approval of SAL. This report may not be used by the client to claim product endorsement by NVLAP or any other agency of the U.S. government. Analytical uncertainty available upon request. Scientific Analytical Institute participates in the NVLAP Proficiency Testing program. Unless otherwise noted blank sample correction was not performed. Estimated MDL is 0.1%.

Philip Szabo (18)

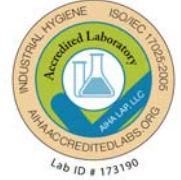
Analyst

Approved Signatory



# Bulk Asbestos Analysis

By Polarized Light Microscopy  
EPA Method: 600/R-93/116 and 600/M4-82-020



**Customer:** Crossroads Environmental LLC  
1258 Boiling Springs Rd  
Spartanburg, SC 29303

**Attn:** Kay Horton

**Lab Order ID:** 1725716  
**Analysis ID:** 1725716\_PLM  
**Date Received:** 12/5/2017  
**Date Reported:** 12/6/2017

**Project:** 15639-IN

Sample ID	Description	Asbestos	Fibrous Components	Non-Fibrous Components	Attributes
Lab Sample ID	Lab Notes				Treatment
203 - C	Tar & Gravel Roof. Roof Field	Not Analyzed			
1725716PLM_18	insulation - TEM				
204	Perimeter Flashing	None Detected	15% Fiber Glass	85% Other	Black, Silver Non Fibrous Homogeneous
1725716PLM_4					Dissolved
205	Perimeter Flashing	None Detected	15% Fiber Glass	85% Other	Black Non Fibrous Homogeneous
1725716PLM_5					Dissolved
206	Perimeter Flashing	Not Analyzed			
1725716PLM_6	TEM				
207	Mechanical Flashing	None Detected	10% Cellulose 5% Fiber Glass	85% Other	Black Non Fibrous Homogeneous
1725716PLM_7					Dissolved
208	Mechanical Flashing	None Detected	10% Cellulose 5% Fiber Glass	85% Other	Black Non Fibrous Homogeneous
1725716PLM_8					Dissolved
209	Mechanical Flashing	Not Analyzed			
1725716PLM_9	TEM				
210	Black Sealant	None Detected		100% Other	Black Non Fibrous Homogeneous
1725716PLM_10					Dissolved

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Philip Szabo (18)

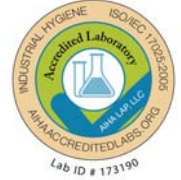
Analyst

Approved Signatory



# Bulk Asbestos Analysis

By Polarized Light Microscopy  
EPA Method: 600/R-93/116 and 600/M4-82-020



**Customer:** Crossroads Environmental LLC  
1258 Boiling Springs Rd  
Spartanburg, SC 29303

**Attn:** Kay Horton

**Lab Order ID:** 1725716  
**Analysis ID:** 1725716\_PLM  
**Date Received:** 12/5/2017  
**Date Reported:** 12/6/2017

**Project:** 15639-IN

Sample ID	Description	Asbestos	Fibrous Components	Non-Fibrous Components	Attributes
Lab Sample ID	Lab Notes				Treatment
211	Black Sealant	None Detected		100% Other	Black Non Fibrous Homogeneous
1725716PLM_11					Dissolved
212	Black Sealant	Not Analyzed			
1725716PLM_12	TEM				

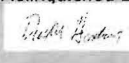
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Philip Szabo (18)


Analyst

Approved Signatory

1725716

<b>Client:</b> Crossroads Environmental, LLC <b>Contact:</b> Kay H. Horton <b>Address:</b> 1258 Boiling Springs Road <b>Phone:</b> 864-541-8736 <b>Fax:</b> 864-541-8776 <b>Email:</b> <a href="mailto:results@crossroadsenv.net">results@crossroadsenv.net</a>  <b>Project:</b> 15639-IN  <b>Client Notes:</b> Stop Positive Everything  <b>P.O. #:</b> <b>Date Submitted:</b> 12/4/2017 0:00  <b>Analysis:</b> PLM Bulk, TEM Bulk <b>TurnAroundTime:</b> 24 hour, 48 hour	Relinquished By:  Fed EX 8121 9171 2565	<b>Scientific Analytical Institute, Inc.</b>  4604 Dundas Dr. Greensboro, NC 27407 <b>Phone: 336.292.3888</b> <b>Fax: 336.292.3313</b> <b>Email: lab@sailab.com</b>
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Sample Number	HA Number	Sample Description	Data 2
<<			
201	1	Tar & Gravel Roof. Roof Field	PLM
202	1	Tar & Gravel Roof. Roof Field	PLM
203	1	Tar & Gravel Roof. Roof Field	TEM
204	2	Perimeter Flashing	PLM
205	2	Perimeter Flashing	PLM
206	2	Perimeter Flashing	TEM
207	3	Mechanical Flashing	PLM
208	3	Mechanical Flashing	PLM
209	3	Mechanical Flashing	TEM
210	4	Black Sealant	PLM
211	4	Black Sealant	PLM
212	4	Black Sealant	TEM

**Accepted**   
**Rejected**   
  
 12/5 12 PM



# Bulk Asbestos Analysis by Transmission Electron Microscopy

Semi-Quantitative  
Chatfield SOP 1988-02 Rev. 1

**Customer:** Crossroads Environmental LLC  
1258 Boiling Springs Rd  
Spartanburg, SC 29303

**Attn:** Kay Horton

**Lab Order ID:** 1725905

**Analysis ID:** 1725905\_TBS

**Date Received:** 12/6/2017

**Date Reported:** 12/8/2017

**Project:** 15639-IN

Sample ID	Description	Organic	Acid Sol.	Asbestos	LCL-UCL
<i>Lab Sample ID</i>	<i>Lab Notes</i>	<i>(Wt. %)</i>	<i>(Wt. %)</i>	<i>(Wt. %)</i>	<i>(Wt. %)</i>
<b>203 - A</b>	Tar & gravel roof roof field	<b>84%</b>	-	<b>None Detected</b>	
<i>1725905TBS_1</i>	<i>built up roofing</i>				
<b>203 - B</b>	Tar & gravel roof roof field	<b>85%</b>	-	<b>None Detected</b>	
<i>1725905TBS_2</i>	<i>felt</i>				
<b>203 - C</b>	Tar & gravel roof roof field	<b>39%</b>	-	<b>None Detected</b>	
<i>1725905TBS_3</i>	<i>insulation</i>				
<b>206</b>	Perimeter flashing	<b>62%</b>	-	<b>None Detected</b>	
<i>1725905TBS_4</i>					
<b>209</b>	Mechanical flashing	<b>75%</b>	-	<b>None Detected</b>	
<i>1725905TBS_5</i>					
<b>212</b>	Black sealant	<b>100.0%</b>	-	<b>None Detected</b>	
<i>1725905TBS_6</i>					

Disclaimer: This report relates only to the samples tested and may not be reproduced, except in full, without the written approval of SAI. This report may not be used by the client to claim product endorsement by NVLAP or any other agency of the U.S. government.

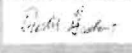
Ired Gulley (6)

\_\_\_\_\_  
**Analyst**

Scientific Analytical Institute, Inc. 4604 Dundas Dr. Greensboro, NC 27407 (336) 292-3888

\_\_\_\_\_  
**Approved Signatory**

1725905  
~~1725716~~

<b>Client:</b>	Crossroads Environmental, LLC	Relinquished By:  Fed EX 8121 9171 2665	<b>Scientific Analytical          Institute, Inc.</b>  4604 Dundas Dr. Greensboro, NC 27407 Phone: 336.292.3888 Fax: 336.292.3313 Email: lab@sailab.com
<b>Contact:</b>	Kay H. Horton		
<b>Address:</b>	1258 Boiling Springs Road		
<b>Phone:</b>	864-541-8736		
<b>Fax:</b>	864-541-8776		
<b>Email:</b>	results@crossroadsenv.net		
<b>Project:</b>	15639-IN		
<b>Client Notes:</b>	Stop Positive Everything		
<b>P.O. #.</b>			
<b>Date Submitted:</b>	12/4/2017 0:00		
<b>Analysis:</b>	PLM Bulk, TEM Bulk		
<b>TurnAroundTime:</b>	24 hour, 48 hour		

Sample Number	HA Number	Sample Description	Data 2
<<			
201	1	Tar & Gravel Roof. Roof Field	PLM
202	1	Tar & Gravel Roof. Roof Field	PLM
203	1	Tar & Gravel Roof. Roof Field	TEM
204	2	Perimeter Flashing	PLM
205	2	Perimeter Flashing	PLM
206	2	Perimeter Flashing	TEM
207	3	Mechanical Flashing	PLM
208	3	Mechanical Flashing	PLM
209	3	Mechanical Flashing	TEM
210	4	Black Sealant	PLM
211	4	Black Sealant	PLM
212	4	Black Sealant	TEM

Accepted

Rejected

*[Signature]*  
 12/5 12 PM



**ATTACHMENT III**  
**SAMPLE LOCATION SKETCH**

**SAMPLE LOCATION SKETCH**

Sketch #: 15639-IN  
Project Name: Media Center Roof  
Project ID: 15639-IN  
Date: December 4, 2017



**ATTACHMENT IV  
ACCREDITATION(S)**

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# SCDHEC ISSUED

## Asbestos ID Card

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**Dustin Henderson**



		Expiration Date
<b>AIRSAMPLER</b>	<b>AS-00479</b>	<b>01/30/18</b>
<b>CONSULTBI</b>	<b>BI-01510</b>	<b>02/14/18</b>