

Columbia Area Office 1611 Chapin Road Chapin, SC 29036 (803) 260-4532

(803) 260-4532 (803) 422-7493

Charleston Area Office

226 N. Live Oak Drive Moncks Corner, SC 29461 (843) 499-2756 (352) 397-8208

wmbeconsultants.com

Addendum No. 1

Date Issued: April 12, 2024

Project Name:SCC – P. Dan Hull Building Roof ReplacementProject Number:H59-6273 - PD

WMBE Project Number: 2023-47

Attachments:

- 1. Questions and Answers
- 2. Drawing Page Additional Unit removal
- 3. Areas of Suspected Existing Wet Roof Insulation
- 4. Laydown Plan
- 5. PLM Results.
- 6. TEM results

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 19 pages including attachments.

- 1. Changes to Bidding Requirements:
 - a. None.
- 2. Changes to Specifications:
 - a. None
- 3. Changes to Drawings:
 - a. Additional Drawing sheet provided in addendum for additional mechanical units and associated penetrations to be removed.



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Questions and Answers

1. Question: Is any interior protection required inside the building?

Answer: Yes, Contractor is responsible to protect interior machinery, servers, computers, books, etc. It is the contractor's responsibility to protect all interior conditions under areas of work.

2. Question: What is the wind-up lift pressures?

Answer: Wind Resistance Design: Installed roof assembly shall meet or exceed the following wind uplift pressures. The tested assembly shall include a Factor of Safety of 2 of the pressures listed below.

Roof Area(s) : Interior Field (1'): - 17 psf Field (1): - 27 psf Perimeter (2): - 34 psf Corner (3): - 44 psf

3. Question: How many units are abandoned to be removed?

Answer: In addition to the areas hatched with the cross hatch to be removed on the drawing plans there are approximately a total of (24) pieces / ventilators that are additional items to be removed.

(21) exhaust fans to remove. (2) HVAC units. One is a green colored "Swamp Cooler" we call it over the Kitchen. The other is the very old, abandoned HVAC unit sitting on the rusted steel above E46 HVAC lab. (1) Roof cap covered with sheet metal above E46 HVAC lab sink.

Plan is attached for reference marked with a red dot.

4. Question: Are there specific locations expected to have existing wet insulation to be removed and replaced.

Answer: Plan is attached with areas in red where test cuts will be completed prior to removal using the unit price line item.

5. Question: Can work be completed at night and on the weekends?

Answer: Yes

6. Question: Where are wall panels to be installed?

Answer: At all wall locations over 24 inches.

7. Question: Are all the mechanical units that were marked with an "X" to be removed?

Answer: No

8. Question: Is tectum deck noted on R1.1 as damaged to be replaced as part of Unit Costs?

Answer: No, to be included in base bid pricing.

9. Question: Existing wall ladders are to remain?

Answer: No. All ladders shall be replaced with new.

10. Question: Is there any asbestos in the existing roof system or flashing?

Answer: See attached TEM and PLM results.

- 11. Question: May contractor work during regular work hours Monday Friday?
 - Answer: Yes, but work shall only occur in areas where classes are not taking place. Class schedule will be discussed and issued to the awarded contractor. All work will take place around the class schedule. The equipment in the classrooms and labs must also be protected from damage.
- 12. Question: Chimney is to have metal cap and wall panels?

Answer: Yes, and functioning chimney cap fabricated out of stainless steel.

13. Question: Is all roofing work to be self-performed or may contractor use subcontractors for roofing work?

Answer: Certified pay roll can be requested by the agency at any time.

14. Question: All roof drains will be replaced, or just 10 selected with locations TBD? Will this be charged as Unit Costs or included in Base Bid?

- Answer: All roof drains and overflow drains shall be raised and replaced with new. This will not be a unit price. This is to be included in the base bid and alternate bid based on roof areas in scopes of work.
- 15. Question: Will contractor be able to access the interior of the building during regular working hours to handle the required drain work?

Answer: No, this will be after hour work and is to be completed during times when classes are not taking place in classrooms where drain work is taking place

- 16. Question: Will all roofing work be able to be performed during regular business hours Monday Friday?
 - Answer: All roofing work will be completed over areas where classes are not taking place. Class schedule will be provided. In areas where work is taking place the interior will have flagging and cones set up as required. The equipment in the classrooms and labs must also be protected from damage.
- 17. Question: Are all retrofit drains being replaced with new roof drain bowels, drain pipe connections, clamping rings, bolts and strainers?

Answer: Yes.

18. Question: Is the low bid Contractor required to submit a Certified Pay Roll for Employees?

Answer: The low bid Contractor is subject to submit a Certified Pay Roll.

19. Question: What is required if wood supports for equipment or other items can not be removed or substituted with pre-fabricated supports.

Answer: Wood blocking will be replaced and wrapped in sheet metal prior to reinstallation.

20. Question: Is a licensed electrician and or plumber to be used and coordinate by the Contractor for any HVAC work to raise units and any plumbing work at roof drains?

Answer: Yes.

- 21. Question: Is taper insulation required.
 - Answer:Secondary taper is required to enhance positive drainage to roof drain locations.Secondary drainage, crickets, saddles, sumps, etc. to be 2x the primary slope.

22. Question: Are any roof membrane substitution request approved/accepted to be installed over the LWIC pour?

Answer: Yes. Required 20 year Manufacturer's labor and Material no dollar limit warranty and a 73, mph wind speed rider include.

- Carlisle's PVC FleeceBACK 60mil
- JM PVC FB 60mil (Johns Manville)
- 23. Question: Is standing seam joints required for the coping?

Answer: Yes.

24. Question: Is an underlayment system required behind wall panels.

Answer: Yes

25. Question: What is the spacing of the hat channels?

Answer: One at the bottom and top of wall and then spaced at 5' on center.

- 26. Question: How high does mechanical curbs and penetrations are to be raised?
 - Answer: All equipment shall raised to the 8-inch minimum finished height from the top of the finished new roof system. This includes any associated gas lines, electrical, controls, etc.
- 27. Question: Are new wood nailers required at all perimeter locations and penetration locations?
 - Answer: Yes, to match new insulation height and to obtain the minimum flashing height of 8" inches at penetrations.
- 28. Question: Is the edge condition to be two-piece condition?

Answer: Yes.

29. Question: Is either prefinished Steel or prefinished Aluminum acceptable for metal details?

Answer: Pre-finished galvalume or pre-finished aluminum is acceptable.

30. Question: Is a add and deduct price to be included on the bid form for the unit prices

Answer: yes, add cost and deduct cost to be included. Add cost / deduct cost to be written on bid form.

31. Question: When the Single Ply is installed what will be required for cleaning at the end of the project?

Answer: The Contractor will be responsible for cleaning the new roof system with recommended product per the system Manufacturer. No pressure washing / no abrasive methods of cleaning will be acceptable. Hand cleaning will include squeegee, mops, rags, etc.

32. Question: Is the Contractor to provide a three-ring binder with printed pages included in the closeout documents with items as listed in specification?

Answer: Yes, two hard copies and also an electronic copy on a flash drive.

33. Question: In the approved laydown locations how are the grounds to be repaired?

Answer: Any concrete or paving will be repaired to match existing. Any grass locations will be repaired with sod to match existing grounds.

End of Addendum No. 1



▲ _{XRX}	CORE NUMBER AND IDENTIFIER	CR2	SBUR PERLITE = 1"	FR2	GBUR PERLITE = 1-1/2"	HR1
▲ XFX	FLASHING NUMBER AND IDENTIFIER		BASE SHEET / VAPOR RETARDER CEMENTITIOUS WOOD FIBER ROOF DECK		BASE SHEET / VAPOR RETARDER TECTUM / CEMENTITIOUS WOOD FIBER DECK	
AR1	SBUR PERLITE = 1"		TOTAL THICKNESS = 3-1/2"		TOTAL THICKNESS = 2"	
	POLYISOCYANURATE = 2" METAL ROOF DECK TOTAL THICKNESS = 3-1/2"	DR1	SBUR PERLITE = 3/4" POLYISOCYANURATE = 2-1/4" BASE SHEET / VAPOR RETARDER	GR1	GBUR PERLITE = 3" BASE SHEET / VAPOR RETARDER RED ROSEN PAPER	HR2
AR2	SBUR PERLITE = 1" POLYISOCYANURATE = 2"		METAL ROOF DECK TOTAL THICKNESS = 3-3/4"		CEMENTITIOUS WOOD FIBER ROOF DECK TOTAL THICKNESS = 3-1/2"	IR1
	METAL ROOF DECK TOTAL THICKNESS = 3-1/2"	DR2	SBUR PERLITE = 3/4" POLYISOCYANURATE = 2-1/4"	GR2	GBUR PERLITE = 3" BASE SHEET / VAPOR RETARDER	
BRI	SBUR PERLITE = 1" POLYISOCYANURATE = 2" METAL ROOF DECK		BASE SHEET / VAPOR RETARDER METAL ROOF DECK TOTAL THICKNESS = 3-3/4"		RED ROSEN PAPER CEMENTITIOUS WOOD FIBER ROOF DECK TOTAL THICKNESS = 3-1/2"	IR2
BR2	TOTAL THICKNESS = 3-1/2" SBUR PERLITE = 1" POLYISOCYANURATE = 2" METAL ROOF DECK	ER1	SBUR PERLITE = 3/4" BASE SHEET / VAPOR RETARDER GYPSUM OVER METAL FORM TOTAL THICKNESS = 2-1/4"	GR3	GBUR PERLITE = 3" BASE SHEET / VAPOR RETARDER RED ROSEN PAPER CEMENTITIOUS WOOD FIBER ROOF DECK TOTAL THICKNESS = 3-1/2"	JR1
	TOTAL THICKNESS = 3-1/2"	ER2	SBUR PERLITE = $3/4$ "	GR4	GBUR	
CRI	SBUR PERLITE = 1" BASE SHEET / VAPOR RETARDER CEMENTITIOUS WOOD FIBER ROOF DECK		BASE SHEET / VAPOR RETARDER GYPSUM OVER METAL FORM TOTAL THICKNESS = 2-1/4"		PERLITE = 3" BASE SHEET / VAPOR RETARDER RED ROSEN PAPER CEMENTITIOUS WOOD FIBER ROOF DECK	JR2
	TOTAL THICKNESS = 3-1/2"	FR1	GBUR PERLITE = 1-1/2" BASE SHEET / VAPOR RETARDER TECTUM / CEMENTITIOUS WOOD FIBER DECK TOTAL THICKNESS = 2"		TOTAL THICKNESS = 3-1/2"	









9751 Southern Pine Boulevard Charlotte, NC 28273 704-940-1830 Fax 704-565-4929 NVLAP Lab Code 102075-0

Asbestos Analysis Summary

POLARIZED LIGHT MICROSCOPY

Performed by EPA 600/R-93/116 Method

		•		
Client Name	WMBE Consultants	1501 Chapin Rd		Date Received 4/24/2023
Cl:		Chapin SC	29036	
Client Job	SCC P. Dan Hall Bldg 2023-47			Date Analyzed 4/24/2023

Job Number 4335-15-156

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Lab ID:	Sample #:	Appearance	Comments	Asbestos %/Type	Non-Asbestos Fibrous %/Type	Non-Fibrous %/Type
23-3386A	ER1	BLACK FIBROUS	ROOF	ND	20 GLASS	80 OTHER
23-3386B	ER1	GREY FIBROUS	INSULATION	ND	98 CELLULOSE	2 PERLITE
23-3387	ER1BS	BLACK FIBROUS		ND	1 CELLULOSE	99 OTHER
23-3388	EF1	WHITE/BLACK FIBROUS		ND	5 GLASS	95 OTHER

100 million (1997) Analyzed by: Jane Wasilewski Additional Comments: Issued 4/24/23

100 St. 100 Jane Wasilewski

Laboratory Manager

For heterogeneous samples easily separated into subsamples, and for layered samples, each component is analyzed separately. ND = None Detected (Asbestos Not Present In Representative Sample). RCF= (Refractory Ceramic Fiber) The results relate only to the items tested.

The sample may not be fully representative of the larger material in question. This report shall not be reproduced except in full with permission from SME, Inc. This report may not be used to claim product endorsement by NVLAP or any agency of the U.S. Government. Although Polarized Light Microscopy (PLM/Dispersion Staining) (Method EPA 600/R-93/116) is the specified method for analysis of bulk material samples for asbestos under the EPA Asbestos Hazard Emergency Response Act, there have been reports that this method may not identify asbestos when fiber sizes are extremely small or if they are bound in a resinous material. Such materials include floor tile, mastic and asphaltic roofing. Currently, reanalysis by Transmission Electron Microscopy (TEM) to verify results of <1% or "None Detected" for these materials is recommended.

				Asbestos	Non-Asbestos Fibrous	Non-Fibrous
Lab ID:	Sample #:	Appearance	Comments	%/Type	%/Type	%/Type
23-3389A	CR1	BLACK FIBROUS	ROOF	ND	20 GLASS	80 OTHER
23-3389B	CR1	GREY FIBROUS	INSULATION	ND	98 CELLULOSE	2 PERLITE
23-3390	CR1BS	BLACK/TAN FIBROUS		ND	10 GLASS 5 CELLULOSE	85 OTHER
23-3391	CF1	BLACK FIBROUS		ND	5 GLASS	95 OTHER
23-3392A	DR1	BLACK FIBROUS	ROOF	ND	20 GLASS	80 OTHER
23-3392B	DR1	GREY FIBROUS	INSULATION	ND	98 CELLULOSE	2 PERLITE

100 - 10 - 10 - ----Analyzed by: Jane Wasilewski Additional Comments: Issued 4/24/23

Jane Wasilewski Laboratory Manager

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Page 2 of 5

				Asbestos	Non-Asbestos Fibrous	Non-Fibrous
Lab ID:	Sample #:	Appearance	Comments	%/Type	%/Type	%/Type
23-3393	DR1BS	BLACK FIBROUS		ND	15 CELLULOSE	85 OTHER
23-3394	DF1	BLACK FIBROUS		ND	5 GLASS	90 OTHER
					3 CELLULOSE	
					2 SYNTHETIC	
23-3395A	IR2	BLACK FIBROUS	ROOF	ND	20 GLASS	80 OTHER
23-3395B	IR2	GREY FIBROUS	INSULATION	ND	98 CELLULOSE	2 PERLITE
				ND	40 01 400	
23-3396	IR2B5	BLACK FIBROUS		ND	10 GLASS 1 CELLULOSE	89 OTHER
23-3397	IF2	BLACK FIBROUS		ND	5 GLASS	95 OTHER

Analyzed by: Jane Wasilewski Additional Comments: Issued 4/24/23

Jane Wasilewski Laboratory Manager

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				Asbestos	Non-Asbestos Fibrous	Non-Fibrous
Lab ID:	Sample #:	Appearance	Comments	%/Туре	%/Type	%/Type
23-3398A	GR1	BLACK FIBROUS	ROOF	ND	10 GLASS	90 OTHER
23-3398B	GR1	GREY FIBROUS	INSULATION	ND	98 CELLULOSE	2 PERLITE
23-3399	GR1BS	BLACK FIBROUS		ND	10 GLASS	90 OTHER
23-3400	GF1	BLACK FIBROUS		ND	5 GLASS 2 SYNTHETIC	93 OTHER
23-3401A	FR1	BLACK FIBROUS	ROOF	ND	20 GLASS	80 OTHER
23-3401B	FR1	GREY FIBROUS	INSULATION	ND	98 CELLULOSE	2 PERLITE

100 - 10 - 10 - ----Analyzed by: Jane Wasilewski Additional Comments: Issued 4/24/23

Jane Wasilewski Laboratory Manager

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Lab ID:	Sample #:	Appearance	Comments	Asbestos %/Type	Non-Asbestos Fibrous %/Type	Non-Fibrous %/Type
23-3402A	FR1BS	BLACK/TAN FIBROUS	ROOF	ND	10 GLASS 5 CELLULOSE	85 OTHER
23-3402B	FR1BS	GREY FIBROUS	INSULATION	ND	98 CELLULOSE	2 PERLITE
23-3403	FF1	BLACK FIBROUS		ND	5 GLASS	95 OTHER

and the second state of the second Analyzed by: Jane Wasilewski Additional Comments: Issued 4/24/23

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Jane Wasilewski Laboratory Manager

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4235-15-151	ENGINEERING . TESTING

BULK SAMPLE

POLARIZED LIGHT MICROSCOPY

PERFORMED BY EPA 600/R-93/116 METHOD

CH	AIN OF CUS	STODY RECO	RD 43	35-15-	156	ENGI	ONMENTAL	TESTING SERVICES	PEF	RFORMED	BY EPA 600/R-93/116 METHOD
PROJ 2023-4	ECT NO. 17	PROJECT I Spartanburg Building Ro	NAME Community Coof Replacemen	ollege - P. Dar t	n Hall	RELINQUISHED BY: Daniel Atwell		DAT 4/18/20	E TIME 023 12:00 PM	RECEIVED BY: 4/24/23	
FACILITY				RELIN			BY:	DAT	E TIME	RECEIVED BY:	
Spartanburg Community College - P. Dan Hall Building										0	ſ
SAMPLER(S) Daniel Atwell			DATE TAKEN 4/18/2023		RELIN	RELINQUISHED BY:		DAT		RECEIVED BY:	
5	SAMPLE #	LAB	DATE	ANALYSTS	ASBES	STOS N/D	ARCHIVE	DATE	ARCHIVER		SPECIAL INSTRUCTIONS
ER1 - GB	UR	23-3386									
ER1BS - I	Base Sheet / VR	87									
EF1 - Flas	shing Sample	88									20172-0-00
CR1 - GB	UR	89									
CR1BS - I	Base Sheet / VR	90									And a second
CF1 - Flas	shing Sample	91									
DR1 - GB	UR	92									
DR1BS - I	Base Sheet / VR	93									
DF1 - Flas	shing Sample	33 94									
	Same Day		24 Hour	t in and a new second		48 Hour	•	X	3-5 Da	y	□ 6-10 Day
		AL	L SAMPLES W	VILL BE DISP	OSED O	F AFTER	ANALYS	SIS UNLESS	OTHERWI	SE REQUEST	TED
By sig AUTHO PF	gning below, I war DRIZED BY RINT NAME	rrant that I am authori intel Atwell - Project	to ener intertion	he greement to	3/17/	t named bel 23 PM E & TITLE)	low, and tha . This agre . Analysis	at I authorize the eement is govern charges shall be	above analy ned by the te e as included	ysis subject to the rms and conditio d in S&ME, Inc.'s	e terms and conditions on the reverse hereof. ons on the reverse side hereof. fee schedule in effect at the time of the analysis.
	Client Name WN	A Building Envelop	ATTN: pe Consultants,	LLC			ų.	Name, Dept. Da	niel Atwel	ll, daniel@wm	beconsultants.com
TION	Client PO#						ES 0	Co. WM Buil	ding Envel	ope Consultan	its, LLC
VOIC	Address 1501 C	Chapin Road					COPI	Address 1501	Chapin Roa	ad	
INFO	City, State, Zip C	hapin, SC, 29036		-			RES	City, State, Zip (hapin, SC.	29036	
	Phone: (803) 42	22-7493	FAX:				S	Phone: (803) 4	122-7493		FAX:
	WH	ITE COPY-LABORATORY				YELLOW O	COPY-ACCOUN	NTING			PINK COPY-CLIENT

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BULK SAMPLE

POLARIZED LIGHT MICROSCOPY PERFORMED BY EPA 600/R-93/116 METHOD

CHAIN OF CUSTODY RECORD

PROJI 2023-4	47 PROJECT NAME Spartanburg Community College - P. Dan Hall Building Roof Replacement			RELIN Danie	JNQUISHED BY:DATETIMEniel Atwell4/18/202312:00 F		TIME 23 12:00 PM	RECEIVED BY: 4/24/23			
FACIL Spartan	FACILITY Spartanburg Community College - P. Dan Hall Building							BY:	DATE	TIME	RECEIVED BY:
SAMP Daniel	SAMPLER(S)DATEDaniel Atwell4/18/2			DATE T 4/18/2023	DATE TAKEN RELIN		LINQUISHED BY:		DATE	TIME	RECEIVED BY:
S	AMPLE #	LAB NUMBER	DATE	ANALYSTS INITIALS	ASBES + I	TOS N/D	ARCHIVE	DATE	ARCHIVER		SPECIAL INSTRUCTIONS
R2 - SBU	R	23- 3395									
R2BS - Ba	ase Sheet / VR	96					ħ.				
F2 - Flash	ing Sample	97									
GR1 - SBU	JR	98									
GR1BS - E	Base Sheet / VR	33 99									Construction of the second
GF1 - Flasl	hing Sample	3400					J.				
R1 - SBU	IR	ØI									
RIBS - B	ase Sheet / VR	02									
FI - Flast	ning Sample	34 03									
	Same Day		24 Hour			8 Hou	r		3-5 Day		□ 6-10 Day
By sig AUTHO PR	ning below, I warra RIZED BY	ALI	t Manager	ILL BE DISP	r the client	AFTER	l ANALYSI	S UNLESS (I authorize the ement is govern harges shall be	above analysi above the term as included in	E REQUEST	ED terms and conditions on the reverse hereof. ns on the reverse side hereof. lee schedule in effect at the time of the analysis.
N	Client Name WM	Building Envelop	ATTN: e Consultants,]	LLC			OF	Name, Dept. Da	niel Atwell,	daniel@wmb	peconsultants.com
ATICE	Client PO#			We will be stated as			PIES IS TO	Co. WM Build	ding Envelop	pe Consultant	s, LLC
UNCLE UNCLE	Address 1501 Ch	apin Road					SUL	Address 1501 (Chapin Road		
N.	City, State, Zip Cha	pin, SC, 29036					SEN	City, State, Zip C	hapin, SC, 2	9036	
	Phone: (803) 422	-7493	FAX:			VELLOW		Phone: (803) 4	22-7493		FAX:

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EMSL

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

PHONE: 704-525-2205

412304309

EMSL ANALYTICAL, INC. LABORATORY+PRODUCTS-TRAINING		114			FAX:			
Company : WM Build	ing Envelope Consulta	nts, LLC	EMSL-E	Bill to: 🛛 Same 🗌 Di	fferent			
Street: 1501 Chapin F	Road		Third Party Billing requires written authorization from third party					
City: Chapin	State/P	rovince: SC	Zip/Postal Code: 2903	6 Cour	ntry: USA			
Report To (Name): D	aniel Atwell		Fax #: NA					
Telephone #: 803-26	0-4532		Email Address: dani	el@wmbeconsultants	.com			
Project Name/Numbe	r: SCC - P. Dan Hall I	Building Roof Repla	cement / 2023-47					
Please Provide Resu	ilts: 🔲 Fax 🛛 Email	Purchase Order		S. State Samples Tak	en: SC			
		around Time (IAI)	Options* – Please Che					
*For TEM Air 3 hr through 6 hr, 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		<u>TEM – Air</u> 🔲 4-4.	5hr TAT (AHERA only)	TEM- Dust				
NIOSH 7400		AHERA 40 CFF	R, Part 763	Microvac - ASTM	D 5755			
W OSHA 8hr. TW	٩	NIOSH 7402		🔲 Wipe - ASTM D64	180			
PLM - Bulk (reporting	<u>ı limit)</u>			Carpet Sonication	(EPA 600/J-93/167)			
□ PLM EPA 600/R-93	3/116 (<1%)	L ISO 10312		Soil/Rock/Vermiculi				
	%)	<u>IEM - BUIK</u>			A (0.25% sensitivity)			
	000 (~0.19/)		(non friable NV)		B (0.1% sensitivity) B (0.1% consitivity)			
□ 400 (<0.25%) □ 10 Point Count w/Gravim	000 (<0.1%) etric		(non-mable-lat)		C (0.1% sensitivity)			
			veis-EPA 600 sec 25	FPA Protocol (Semi-Quantitative)				
□ +00 (<0.2070) ⊡ 10	in NY)	TEM - Water: EPA			antitative)			
	on-friable-NY)	Fibers >10um	Waste 🔲 Drinking	Other:				
		All Fiber Sizes	Waste Drinking		۔ ۱			
Check For Positive Stop – Clearly Identify Homogenous Group								
		• • •		15-1 11	111/			
Samplers Name: Dan	iel Atwell		Samplers Signature:	pm 100				
Sample #		Sample Description	1	Volume/Area (Air) HA # (Bulk)	Date/Time Sampled			
000	SDUD.			······································	4/40/00			
GR3	SBUR				4/18/23			
LR1	SBUR							
AR1	GBUR							
E1R1	GBUR							
GR3BS	Base Sheet / VR							
EIRIBS	Base Sheet / VR							
LFI	Flashing Sample							
F1F1	Flashing Sample							
Client Samole # (c):	A A A A A A A A A A A A A A A A A A A			I	Ω			
olient Sample # (S).		<u>_</u>		Total # of Samples.	<u> </u>			
Relinguisned (Client)	Relinquished (Client): Daniel Atwell Date: 4/18/23 Time: 3:00 PM							
Received (Lab):	CIH.	Date:	7-19-23	Time	: 1245 UPS			
Comments/Special Ir	Istructions:				100, 501			
		• .		1+1A5 499 0	> >>161000			

Controlled Document - Asbestos COC - R2 - 1/12/2010

Page 1 of







Attention: Daniel Atwell

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

WM Building Envelope Consultants LLC

512 Limestone Point Chapin, SC 29036 EMSL Order: 412304309 Customer ID: WMBE42 Customer PO: Project ID:

 Phone:
 (803) 422-7493

 Fax:
 Fax:

 Received Date:
 04/19/2023 12:45 PM

 Analysis Date:
 04/24/2023

 Collected Date:
 04/18/2023

Project: SCC - P. Dan Hall Building Roof Replacement/ 2023-47

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
GR3 412304309-0001	SBUR	Black Fibrous Homogeneous	100.0 Other	None	No Asbestos Detected
LR1 412304309-0002	SBUR	Black Fibrous Homogeneous	100.0 Other V	<0.1 Fibrous_Other	No Asbestos Detected
AR1 412304309-0003	GBUR	Black Fibrous Homogeneous	100.0 Other	None	No Asbestos Detected
E1R1 412304309-0004	GBUR	Black Fibrous Homogeneous	100.0 Other	None	No Asbestos Detected
GR3BS 412304309-0005	Base Sheet / VR	Black Fibrous Homogeneous	100.0 Other	None	No Asbestos Detected
E1R1BS 412304309-0006	Base Sheet / VR	Black Fibrous Homogeneous	100.0 Other	None	No Asbestos Detected
LF1 412304309-0007	Flashing Sample	Black Fibrous Homogeneous	100.0 Other	None	No Asbestos Detected
E1F1 412304309-0008	Flashing Sample	Gray Fibrous Homogeneous	100.0 Other	None	No Asbestos Detected

Analyst(s)

Sarah Breneman (8)

Evan L Plumber

Lee Plumley, 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. EMSL recommends that samples reported as none detected or <1% undergo additional analysis via PLM to avoid the possibility of false negatives.

Samples analyzed by EMSL Analytical, Inc. Pineville, NC

Initial report from: 04/24/2023 10:55:52

ASB_PLMEPANOB_0012_0002 Printed 4/24/2023 10:55:58AM