

ADDENDUM NUMBER 2

Date: October 22, 2020
Project: 1600 Hampton Street Annex –
Mechanical Upgrades
University of South Carolina



USC Proj No. 50003396-2
MDI Proj. No.: 203663

Submitted By: Justin Varco, PE, CPD
Mechanical Design, Inc.
4403 Broad River Road
Columbia, S.C. 29210
(803)731-9834 Fax: (803)731-9837
justin@mdi9834.com

The following items take precedence over referenced portions of the Contract Documents for the referenced project dated 09/11/20, and, in executing a contract, shall become a part thereof.

Where any item called for in the documents is supplemented hereby, the original requirements shall remain in effect. All supplemental conditions shall be considered as added thereto.

Where any original item is amended, voided, or superseded hereby, the provision of such items not so specifically amended, voided, or superseded shall remain in effect.

General Clarification:

USC will provide two parking spaces. Any additional spaces need to be purchased from the City of Columbia.

HVAC QUESTIONS:

1. Is the roof under warranty and who is the Roof Manufacturer?
Yes, John's Manville. All roofing scope of work shall be completed by a John's Manville certified installer. Roof protection shall be provided through-out. Loosely lay 1.5" (minimum) molded expanded polystyrene (MEPS) or 1.5" (minimum) of polyisocyanurate, over the roof surface. Loosely lay .75" (nominal) plywood or OSB over the MEPS/Polyiso. MEPS/polyiso must extend a minimum of 1" past edges of plywood/OSB. If the MEPS/polyiso gets crushed during construction, replace in kind. This protection to be used in all areas that will be used for construction (storage/laydown, foot traffic, etc.) and will be in place prior to any construction activities. Make sure the system is connected laterally to prevent any material from shifting, and/or becoming airborne.
2. The new DOAS unit will need to be tied into the existing fire alarm system. Plans state that it is a Gamewell system. Who is monitoring this system?
The USC Police Department has a central monitoring station that monitors the panel
3. What manufacturer and size are the existing RTUs?
Lennox, the size of the equipment is noted within the unit tag on the drawings.

GENERAL HVAC CLARIFICATIONS:

1. Materials onsite have been tested for asbestos. The results of these tests are attached to this addendum.
2. The project site is tobacco free area. Smoking, chewing, and vaping products are prohibited while onsite.
3. All personnel onsite must pass a background check prior the start of any construction.
4. The building is an active Police Department with 24-hour operations. All work is to be scheduled and coordinated with USC representatives. Any work that is disruptive to the operation of the department shall be approved ahead of time and scheduled appropriately.
5. There is a \$15,000 Allowance that is to be included as part of the base bid. Any monies not used upon the project completion will be credited back to the owner through a deductive change order.
6. Performance and Payment bonds are required for this project.
7. The contractor shall bid the project as a Prime. All work shall be included as part of the contract including but not limited to, HVAC, Electrical, Roofing, Controls, Ceiling, cutting/patching, etc...scope of works.
8. Outside air hoods on the existing rooftop units located on the upper floor shall be closed upon commissioning of the DOAS unit.

END OF ADDENDUM NO. 2 ITEMS

5599

EMSL Analytical, Inc.
706 Grain Street



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

[Empty box for Order Number]

Kernersville, NC 27284

PHONE: (336) 992-1025
FAX: (336) 992-4175

EMSL ANALYTICAL, INC.
LABORATORY PRODUCTS TRAINING

Company Name : University of South Carolina		EMSL Customer ID:	
Street: 743 Greene Street		City: Columbia	State/Province: SC
Zip/Postal Code: 29208	Country: US	Telephone #: 8039773963	Fax #: 803-777-3990
Report To (Name): USC HAZMAT Group		Please Provide Results: <input type="checkbox"/> Fax <input checked="" type="checkbox"/> Email	
Email Address: asbestos@mailbox.com		Purchase Order:	
Project Name/Number: 029A 1600 Hampton Annex		EMSL Project ID (Internal Use Only):	
U.S. State Samples Taken: SC		CT Samples: <input type="checkbox"/> Commercial/Taxable <input type="checkbox"/> Residential/Tax Exempt	
EMSL-Bill to: <input checked="" type="checkbox"/> Same <input type="checkbox"/> Different - If Bill to is Different note instructions in Comments** <i>Third Party Billing requires written authorization from third party</i>			
Turnaround Time (TAT) Options* - Please Check			
<input type="checkbox"/> 3 Hour <input type="checkbox"/> 6 Hour <input checked="" type="checkbox"/> 24 Hour <input type="checkbox"/> 48 Hour <input type="checkbox"/> 72 Hour <input type="checkbox"/> 96 Hour <input type="checkbox"/> 1 Week <input type="checkbox"/> 2 Week			
*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 <input type="checkbox"/> Check if samples are from NY <input type="checkbox"/> NIOSH 7400 <input type="checkbox"/> w/ OSHA 8hr. TWA		TEM - Air <input type="checkbox"/> 4-4.5hr TAT (AHERA only) <input type="checkbox"/> AHERA 40 CFR, Part 763 <input type="checkbox"/> NIOSH 7402 <input type="checkbox"/> EPA Level II <input type="checkbox"/> ISO 10312	
PLM - Bulk (reporting limit) <input checked="" type="checkbox"/> PLM EPA 600/R-93/116 (<1%) <input type="checkbox"/> PLM EPA NOB (<1%) Point Count <input type="checkbox"/> 400 (<0.25%) <input type="checkbox"/> 1000 (<0.1%) Point Count w/Gravimetric <input type="checkbox"/> 400 (<0.25%) <input type="checkbox"/> 1000 (<0.1%) <input type="checkbox"/> NYS 198.1 (friable in NY) <input type="checkbox"/> NYS 198.6 NOB (non-friable-NY) <input type="checkbox"/> NYS 198.8 SOF-V <input type="checkbox"/> NIOSH 9002 (<1%)		TEM - Bulk <input checked="" type="checkbox"/> TEM EPA NOB <input type="checkbox"/> NYS NOB 198.4 (non-friable-NY) <input type="checkbox"/> Chatfield SOP <input type="checkbox"/> TEM Mass Analysis-EPA 600 sec. 2.5 TEM - Water , EPA 100.2 Fibers >10µm <input type="checkbox"/> Waste <input type="checkbox"/> Drinking All Fiber Sizes <input type="checkbox"/> Waste <input type="checkbox"/> Drinking	
TEM - Dust <input type="checkbox"/> Microvac - ASTM D 5755 <input type="checkbox"/> Wipe - ASTM D6480 <input type="checkbox"/> Carpet Sonication (EPA 600/J-93/167)		Soil/Rock/Vermiculite <input type="checkbox"/> PLM EPA 600/R-93/116 with milling prep (<1%) <input type="checkbox"/> PLM EPA 600/R-93/116 with milling prep (<0.25%) <input type="checkbox"/> TEM EPA 600/R-93/116 with milling prep (<0.1%) <input type="checkbox"/> TEM Qualitative via Filtration Prep <input type="checkbox"/> TEM Qualitative via Drop Mount Prep <input type="checkbox"/> Cincinnati Method EPA 600/R-04/004 - PLM/TEM (BC only)	
<input checked="" type="checkbox"/> Check For Positive Stop - Clearly Identify Homogenous Group		Filter Pore Size (Air Samples): <input type="checkbox"/> 0.8µm <input type="checkbox"/> 0.45µm	
Samplers Name: <u>Antonio Thompson</u>		Samplers Signature: <u>[Signature]</u>	
Sample #	Sample Description	Volume/Area (Air) HA # (Bulk)	Date/Time Sampled
	SEE Field Sheet Attached		
Client Sample # (s):		Total # of Samples: 15	
Relinquished (Client): <u>Antonio Thompson</u>		Date: <u>9/23/2020</u>	Time: <u>11:25Am</u>
Received (Lab): <u>[Signature]</u>		Date: <u>9-24-20</u>	Time: <u>12:15</u>
Comments/Special Instructions: <small>Site: University of South Carolina, 743 Greene Street, Columbia, SC, 29208, US Attention: Darryl Washington Phone: 803-817-0291 Email: washington@hsc.ec.edu Purchase Order.</small>			

EMSL Fed-Ex: 7959 3695 2886

Reset Form

Print Form

5599



Building # 029A 1600 HAMPTON ANNEX

Sample Analysis

9/23/2020

Turn Around Time 24 HOUR

Type of Analysis: Lead / Asbestos Date:

Area	Sample ID	Material Sampled	Material Location	F/NF	Cond	Quantity	Pot to Disturb
A	1	GRAYISH 12X12 FLOOR TILE	2ND FLOOR MECHANICAL ROOM	NF	GOOD	<100 SQFT	LOW
A	2	GRAYISH 12X12 FLOOR TILE	2ND FLOOR MECHANICAL ROOM	NF	GOOD	<100 SQFT	LOW
A	3	GRAYISH 12X12 FLOOR TILE <i>TEM it Negative</i>	2ND FLOOR MECHANICAL ROOM	NF	GOOD	<100 SQFT	LOW
B	4	LIGHT GRAY MASTIC	1ST FLOOR MECHANICAL ROOM ON METAL DUCT	NF	GOOD	<1000 SQFT	LOW
B	5	LIGHT GRAY MASTIC	1ST FLOOR MECHANICAL ROOM ON METAL DUCT	NF	GOOD	<1000 SQFT	LOW
B	6	LIGHT GRAY MASTIC <i>TEM it Negative</i>	1ST FLOOR MECHANICAL ROOM ON METAL DUCT	NF	GOOD	<1000 SQFT	LOW
C	7	DARK GRAY MASTIC	1ST FLOOR MECHANICAL ROOM ON METAL DUCT	NF	GOOD	<1000 SQFT	LOW
C	8	DARK GRAY MASTIC	BASEMENT FLOOR MECHANICAL ROOM METAL DUCT	NF	GOOD	<1000 SQFT	LOW
C	9	DARK GRAY MASTIC <i>TEM it Negative</i>	1ST FLOOR MECHANICAL ROOM ON METAL DUCT	NF	GOOD	<1000 SQFT	LOW
D	10	BROWN MASTIC	1ST FLOOR MECHANICAL ROOM ON METAL DUCT	NF	GOOD	<1000 SQFT	LOW

License # GR-00052 FM# FM00631267 Signature *[Signature]* Requestor PETE FISHER

Send lab results in PDF and CSV format as soon as possible to: asbestos@mailbox.sc.edu

Reset Form

Print Form

5599



Building # 029A 1600 HAMPTON ANNEX

Sample Analysis Date: 9/23/2020

Type of Analysis: Lead / Asbestos

Turn Around Time 24 HOUR

Area	Sample ID	Material Sampled	Material Location	F/NF	Cond	Quantity	Pot to Disturb
D	11	BROWN MASTIC	2ND FLOOR MECHANICAL ROOM METAL DUCT	NF	GOOD	<100 SQFT	LOW
D	12	BROWN MASTIC <i>LEM if Negative</i>	2ND FLOOR MECHANICAL ROOM METAL DUCT	NF	GOOD	<100 SQFT	LOW
E	13	CREAM MASTIC	BASEMENT FL. MECHANICAL RM HVAC DUCT INSULATION	NF	GOOD	<100 SQFT	LOW
E	14	CREAM MASTIC	1ST FLOOR MECHANICAL RM HVAC DUCT INSULATION	NF	GOOD	<1000 SQFT	LOW
E	15	CREAM MASTIC <i>LEM if Negative</i>	2ND FLOOR MECHANICAL RM HVAC DUCT INSULATION	NF	GOOD	<1000 SQFT	LOW

License # GR-00052 FM# FM00631267 Signature *Pete Fisher* Requestor PETE FISHER



EMSL Analytical, Inc.

706 Gralin Street Kernersville, NC 27284

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

<http://www.EMSL.com/greensborolab@emsl.com>

EMSL Order: 022005599

Customer ID: UNSC62

Customer PO:

Project ID:

Attention: USC Hazmat
University of South Carolina
743 Greene Street
Columbia, SC 29208

Phone: (803) 777-7000
Fax: (803) 777-3990
Received Date: 09/24/2020 10:15 AM
Analysis Date: 09/24/2020
Collected Date:

Project: 029A 1600 Hampton Annex

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

Sample	Description	Appearance	Non-Asbestos		Asbestos % Type
			% Fibrous	% Non-Fibrous	
1-Floor Tile <i>022005599-0001</i>	Grayish 12x12 Floor Tile	Tan/Beige Non-Fibrous Homogeneous		25% Quartz 75% Non-fibrous (Other)	None Detected
1-Tan Mastic <i>022005599-0001A</i>	Grayish 12x12 Floor Tile	Tan Non-Fibrous Homogeneous	<1% Cellulose	100% Non-fibrous (Other)	None Detected
1-Leveler <i>022005599-0001B</i>	Grayish 12x12 Floor Tile	Gray Non-Fibrous Homogeneous		20% Quartz 10% Ca Carbonate 70% Non-fibrous (Other)	None Detected
1-Black Mastic <i>022005599-0001C</i>	Grayish 12x12 Floor Tile	Black Non-Fibrous Homogeneous	2% Cellulose	98% Non-fibrous (Other)	None Detected
1-Padding <i>022005599-0001D</i>	Grayish 12x12 Floor Tile	Blue Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
2-Floor Tile <i>022005599-0002</i>	Grayish 12x12 Floor Tile	Gray/Tan Non-Fibrous Homogeneous		25% Quartz 75% Non-fibrous (Other)	None Detected
2-Tan Mastic <i>022005599-0002A</i>	Grayish 12x12 Floor Tile	Tan Non-Fibrous Homogeneous	<1% Cellulose	100% Non-fibrous (Other)	None Detected
2-Leveler <i>022005599-0002B</i>	Grayish 12x12 Floor Tile	Gray Non-Fibrous Homogeneous		20% Quartz 10% Ca Carbonate 70% Non-fibrous (Other)	None Detected
2-Black Mastic <i>022005599-0002C</i>	Grayish 12x12 Floor Tile	Black Non-Fibrous Homogeneous	3% Cellulose	97% Non-fibrous (Other)	None Detected
2-Padding <i>022005599-0002D</i>	Grayish 12x12 Floor Tile	Blue Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
3-Floor Tile <i>022005599-0003</i>	Grayish 12x12 Floor Tile	Gray Non-Fibrous Homogeneous		25% Quartz 75% Non-fibrous (Other)	None Detected
3-Tan Mastic <i>022005599-0003A</i>	Grayish 12x12 Floor Tile	Tan Non-Fibrous Homogeneous	<1% Cellulose	100% Non-fibrous (Other)	None Detected
3-Leveler <i>022005599-0003B</i>	Grayish 12x12 Floor Tile	Gray Non-Fibrous Homogeneous	<1% Cellulose	40% Quartz 5% Ca Carbonate 55% Non-fibrous (Other)	None Detected
3-Black Mastic <i>022005599-0003C</i>	Grayish 12x12 Floor Tile	Black Non-Fibrous Homogeneous	<1% Cellulose 1% Glass	99% Non-fibrous (Other)	None Detected
3-Padding <i>022005599-0003D</i>	Grayish 12x12 Floor Tile	Blue Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
4 <i>022005599-0004</i>	Light Gray Mastic	White Fibrous Homogeneous	2% Synthetic 2% Glass	96% Non-fibrous (Other)	None Detected

Initial report from: 09/25/2020 09:15:19



EMSL Analytical, Inc.

706 Gralin Street Kernersville, NC 27284
Tel/Fax: (336) 992-1025 / (336) 992-4175
<http://www.EMSL.com> / greensborolab@emsl.com

EMSL Order: 022005599
Customer ID: UNSC62
Customer PO:
Project ID:

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

Sample	Description	Appearance	Non-Asbestos		Asbestos
			% Fibrous	% Non-Fibrous	% Type
5 022005599-0005	Light Gray Mastic	White Non-Fibrous Homogeneous	2% Synthetic 2% Glass	96% Non-fibrous (Other)	None Detected
6 022005599-0006	Light Gray Mastic	Gray Non-Fibrous Homogeneous	<1% Cellulose 2% Glass	5% Ca Carbonate 93% Non-fibrous (Other)	None Detected
7 022005599-0007	Dark Gray Mastic	Gray Non-Fibrous Homogeneous	<1% Cellulose	5% Ca Carbonate 95% Non-fibrous (Other)	None Detected
8 022005599-0008	Dark Gray Mastic	Gray Non-Fibrous Homogeneous		5% Ca Carbonate 95% Non-fibrous (Other)	None Detected
9 022005599-0009	Dark Gray Mastic	Gray Non-Fibrous Homogeneous	<1% Cellulose	5% Ca Carbonate 95% Non-fibrous (Other)	None Detected
10 022005599-0010	Brown Mastic	Brown Non-Fibrous Homogeneous	<1% Cellulose	100% Non-fibrous (Other)	None Detected
11 022005599-0011	Brown Mastic	Brown Non-Fibrous Homogeneous	<1% Cellulose	100% Non-fibrous (Other)	None Detected
12 022005599-0012	Brown Mastic	Brown Non-Fibrous Homogeneous	1% Cellulose	99% Non-fibrous (Other)	None Detected
13 022005599-0013	Cream Mastic	Beige Fibrous Homogeneous	3% Wollastonite	97% Non-fibrous (Other)	None Detected
14 022005599-0014	Cream Mastic	Beige Non-Fibrous Homogeneous	3% Wollastonite	97% Non-fibrous (Other)	None Detected
15 022005599-0015	Cream Mastic	Beige Non-Fibrous Homogeneous	3% Wollastonite	97% Non-fibrous (Other)	None Detected

Analyst(s)

Cameron Evans (9)
Kristie Elliott (18)

Stephen Bennett, Laboratory Manager
or Other Approved Signatory

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

Samples analyzed by EMSL Analytical, Inc. Kernersville, NC NVLAP Lab Code 102104-0, CA ELAP 2689, Virginia 3333-000228, West Virginia LT000321

Initial report from: 09/25/2020 09:15:19



EMSL Analytical, Inc.

706 Gralin Street Kenersville, NC 27284
Tel/Fax: (336) 992-1025 / (336) 992-4175
<http://www.EMSL.com> / greensborolab@emsl.com

EMSL Order: 022005599
Customer ID: UNSC62
Customer PO:
Project ID:

Attention: USC Hazmat
University of South Carolina
743 Greene Street
Columbia, SC 29208
Project: 029A 1600 Hampton Annex

Phone: (803) 777-7000
Fax: (803) 777-3990
Received Date: 09/24/2020 10:15 AM
Analysis Date: 09/25/2020
Collected Date:

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
2-Floor Tile 022005599-0002	Grayish 12x12 Floor Tile	Gray/Tan Non-Fibrous Homogeneous	100.0 Other	None	No Asbestos Detected
2-Tan Mastic 022005599-0002A	Grayish 12x12 Floor Tile	Tan Non-Fibrous Homogeneous	100.0 Other	None	No Asbestos Detected
2-Black Mastic 022005599-0002C	Grayish 12x12 Floor Tile	Black Non-Fibrous Homogeneous	100.0 Other	None	No Asbestos Detected
4 022005599-0004	Light Gray Mastic	White Fibrous Homogeneous	100.0 Other	None	No Asbestos Detected
7 022005599-0007	Dark Gray Mastic	Gray Non-Fibrous Homogeneous	100.0 Other	None	No Asbestos Detected
10 022005599-0010	Brown Mastic	Brown Non-Fibrous Homogeneous	100.0 Other	None	No Asbestos Detected
13 022005599-0013	Cream Mastic	Beige Non-Fibrous Homogeneous	100.0 Other	None	No Asbestos Detected

Analyst(s)

Stephen Bennett (7)

Stephen Bennett, Laboratory Manager
or other approved signatory

EMSL maintains liability limited to cost of analysis. Interpretation and use of test results are the responsibility of the client. This report relates only to the samples reported above, and may not be reproduced, except in full, without written approval by EMSL. EMSL bears no responsibility for sample collection activities or analytical method limitations. The report reflects the samples as received. Results are generated from the field sampling data (sampling volumes and areas, locations, etc.) provided by the client on the Chain of Custody. Samples are within quality control criteria and met method specifications unless otherwise noted. 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. Kenersville, NC

Initial report from: 09/25/2020 16:36:17