

## Addendum One

March 14, 2017

NOTE: The following amendments, additions, and deletions shall be made to the Construction Documents and Contract Documents. Insofar as those documents are at variance with this Addendum, this Addendum shall govern.

### General

| <u>Item No.</u> | <u>Description</u> |
|-----------------|--------------------|
|-----------------|--------------------|

- |    |   |
|----|---|
| 1. | A non-mandatory pre-bid conference was held on 03/09/17 at 10:00 am EST, and a subsequent site visit was made available. A site visit is highly recommended. Attached is a list of attendees. |
|----|---|

### Clarifications

- |    |   |
|----|---|
| 2. | <u>Clarification:</u> No additional site visits have been scheduled. To arrange a site visit contact Jerry Knox at <a href="mailto:knoxj13@mailbox.sc.edu">knoxj13@mailbox.sc.edu</a> or (803) 260-2361.  |
| 3. | <u>Clarification:</u> The final addendum will be posted no later than 2:00 pm EST on 03/16/17. Questions are required to be in writing or e-mailed to Swygert & Associates by 12:00 pm EST on 03/15/17.   |
| 4. | <u>Clarification:</u> The existing angle iron roof duct supports shall remain and be reused where applicable. Support existing duct supports as required during construction to prevent damage to supports, roof, and pitch pockets. Clean existing duct supports and repaint with one coat of anti-rust primer and one coat of finish paint in a different color than the primer. Final finish color shall be approved by the owner. |
| 5. | <u>Clarification:</u> See attached asbestos survey for informational purposes only. The owner is responsible for all asbestos abatement.  |

### Specifications

- |    |  |
|----|--|
| 6. | <u>Refer to Specification 230500:</u> On page 8 under Unit Performance, change the air-handling unit leakage requirement to a maximum of 1% of rated CFM at +/- 8" w.g. The unit shall be factory tested for leakage and a report provided to the engineer. Witnessing of the leakage test by the engineer or the owner is not required. |
|----|--|

7. Refer to Specification 230500: On page 15 under Finishes, remove the requirement for YORK Champagne color. A standard final finish color is acceptable.

END OF ADDENDUM

Attachments:

Pre-Bid Sign in Sheet (2 pages)

Asbestos Survey (8 pages)

**University of South Carolina  
Pre Bid Sign In Sheet  
Columbia, South Carolina**

**Project Name:** Wardlaw AHU-2 Replacement  
**Project Number:** H27-6117  
**Pre Bid Date & Time:** March 9, 2017, 10:00 AM

| SWMBE? | Name              | Company Name             | Address   | Phone #                        | Email                            |
|--------|-------------------|--------------------------|---|--------------------------------|----------------------------------|
| Yes No | Juaquana Brookins | USC                      | 743 Greene St., Columbia SC 29208                 | 803.777.3596                   | jbroomin@fmc.sc.edu              |
| Yes No | ALEX DRAPIS       | W.O. BLACKSTONS          | 1841 SITOP RD,<br>COLA, SC 29201                  | 803<br>260-6942                | adrapps@wooblackstons.com        |
| Yes NO | RANDY OWENS       | Columbia Cooling Heating | 2320 WAYNE ST.<br>COLUMBIA, SC 29201              | 803<br>765-0430                | RDOWNS@COLUMBIA-COOLING.COM      |
| YES NO | Kent Doege        | Engineered Air           | 131 Matthews Station<br>#2E<br>Matthews, NC       | 704-441-<br>5983               | kent.doege@<br>engineeredair.com |
| YES NO | Bill Brook        | TRS                      | 7499 Parklane Rd<br>Ste 100<br>Columbia, SC 29223 | 803-419-<br>6401               | bill.brook@<br>trs-sesco.com     |
| YES NO | Terry Schmidt     | MST                      | 745 Greenwood Rd<br>West Columbia SC              | 803<br>606.9429                | terryschmidt@msiconst.com        |
| YES NO | Will Thompson     | Mc CARTER MECH           | 1085 South Dood Rd<br>SPARTANBURG, SC 29303       | <del>803</del><br>803-599-7805 | willt@mcartermechanical.com      |
| YES NO | Chris Watt        | Carolina Chillers        | 1060 Chris Dr<br>W. Columbia SC 29119             | 803-404-2529                   | chris@carolinachillers.com       |
| YES NO | BRAD JASINSKI     | Surgent & Assoc.         | 1315 STATE ST<br>CAYCE, SC 29033                  | 803-791-9300                   | BRAD@SURGENT-ASSOCIATES.COM      |

\*\*\*\*By signing this sheet you agree to receive information electronically.

**University of South Carolina  
Pre Bid Sign In Sheet**  
Columbia, South Carolina

**Project Name:** Wardlaw AHU-2 Replacement  
**Project Number:** H27-6117  
**Pre Bid Date & Time:** March 9, 2017, 10:00 AM

| SWMBE? | Name         | Company Name | Address                                 | Phone #      | Email                          |
|--------|--------------|--------------|---|--------------|--------------------------------|
| Yes No | Seth Stanton | Cullum       | 476B Sunset Blvd<br>Corryton, SC 29072  | 803-951-9366 | stantons@culluminc.com         |
| Yes No | Tosh Crowder | White Crane  | 3414 Auguston Rd<br>Vicksburg, MS 39181 | 663 360 0821 | TCrowder@whitecranecompany.com |
| Yes No | Jerry L Knox | USC          | 743 Green St.                           | 803 860-2361 | JKnoxJL3@mailbox15c.edu        |
| Yes No |              |              |   |              |                                |
| Yes No |              |              |   |              |                                |
| Yes No |              |              |   |              |                                |
| Yes No |              |              |   |              |                                |
| Yes No |              |              |   |              |                                |
| Yes No |              |              |   |              |                                |

\*\*\*By signing this sheet you agree to receive information electronically.



EMSL ANALYTICAL, INC.  
LABORATORY-PRODUCTS-TRAINING

## Asbestos Bulk Building Material Chain of Custody

**EMSL Order Number** (Lab Use Only):

339

EMSL ANALYTICAL, INC.  
200 ROUTE 130 NORTH  
CINNAMINSON, NJ 08077  
PHONE: (800) 220-3675  
FAX: (856) 786-5974

|  |                    |   |                 |
|--|--------------------|---|-----------------|
| Company: University of South Carolina  |                    | EMSL-Bill to: <input checked="" type="checkbox"/> Same <input type="checkbox"/> Different<br><small>If Bill to is Different note instructions in Comments**</small> |                 |
| Street: 743 Greene Street              |                    | <i>Third Party Billing requires written authorization from third party</i>  |                 |
| City: Columbia                         | State/Province: SC | Zip/Postal Code: 29208  | Country: US     |
| Report To (Name): USC Hazmat           |                    | Telephone #: 803-509-3376   |                 |
| Email Address: asbestos@mailbox.sc.edu |                    | Fax #:  | Purchase Order: |
| Project Name/Number: #090 - WINDLAW    |                    | Please Provide Results: <input type="checkbox"/> Fax <input checked="" type="checkbox"/> Email  |                 |
| U.S. State Samples Taken: SC           |                    | CT Samples: <input type="checkbox"/> Commercial/Taxable <input type="checkbox"/> Residential/Tax Exempt   |                 |

**Turnaround Time (TAT) Options\* - Please Check**

3 Hour   
  6 Hour   
  24 Hour   
  48 Hour   
  72 Hour   
  96 Hour   
  1 Week   
  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.

|   |   |
|---|---|
| <p style="text-align: center;"><b>PLM - Bulk (reporting limit)</b></p> <p><input checked="" type="checkbox"/> PLM EPA 600/R-93/116 (&lt;1%)</p> <p><input type="checkbox"/> PLM EPA NOB (&lt;1%)</p> <p>Point Count <input type="checkbox"/> 400 (&lt;0.25%) <input type="checkbox"/> 1000 (&lt;0.1%)</p> <p>Point Count w/Gravimetric <input type="checkbox"/> 400 (&lt;0.25%) <input type="checkbox"/> 1000 (&lt;0.1%)</p> <p><input type="checkbox"/> NIOSH 9002 (&lt;1%)</p> <p><input type="checkbox"/> NY ELAP Method 198.1 (friable in NY)</p> <p><input type="checkbox"/> NY ELAP Method 198.6 NOB (non-friable-NY)</p> <p><input type="checkbox"/> OSHA ID-191 Modified</p> <p><input type="checkbox"/> Standard Addition Method</p> | <p style="text-align: center;"><b>TEM - Bulk</b></p> <p><input checked="" type="checkbox"/> TEM EPA NOB - EPA 600/R-93/116 Section 2.5.5.1</p> <p><input type="checkbox"/> NY ELAP Method 198.4 (TEM)</p> <p><input type="checkbox"/> Chatfield Protocol (semi-quantitative)</p> <p><input type="checkbox"/> TEM % by Mass - EPA 600/R-93/116 Section 2.5.5.2</p> <p><input type="checkbox"/> TEM Qualitative via Filtration Prep Technique</p> <p><input type="checkbox"/> TEM Qualitative via Drop Mount Prep Technique</p> <p style="text-align: center;"><b>Other</b></p> <p><input type="checkbox"/></p> |
|---|---|

Check For Positive Stop - Clearly Identify Homogenous Group      Date Sampled: 1/18/17

Samplers Name: MIKE WINCOT      Samplers Signature: Mike Wincot

| Sample # | HA # | Sample Location | Material Description |
|----------|------|-----------------|----------------------|
|          |      | See Field Sheet |                      |
|          |      |                 |                      |
|          |      |                 |                      |
|          |      |                 |                      |
|          |      |                 |                      |
|          |      |                 |                      |
|          |      |                 |                      |
|          |      |                 |                      |
|          |      |                 |                      |
|          |      |                 |                      |

|  |  |
|--|--|
| Client Sample # (s): <u>1</u> - <u>12</u>                | Total # of Samples: <u>12</u>          |
| Relinquished (Client): <u>Mike Wincot</u>                | Date: <u>1/18/17</u> Time: <u> </u>    |
| Received (Lab): <u>JA</u>                                | Date: <u>1-19-17</u> Time: <u>9:20</u> |
| Comments/Special Instructions: <u>① EFX 795237872757</u> |  |

Print Form

Reset Form



339

Sample Analysis

Type of Analysis: Lead / Asbestos Date: 01/18/2017

#080 - WARDLAW

Building #

Turn Around Time

| Area | Sample ID | Material Sampled | Material Location        | F/NF | Cond | Quantity  | Pot to Disturb |
|------|-----------|------------------|--------------------------|------|------|-----------|----------------|
| A    | 1         | DUCT SEAM MASTIC | EAST DUCT RUN            | NF   | GOOD | <1,000 SF | LOW            |
| A    | 2         | DUCT SEAM MASTIC | EAST DUCT RUN            | NF   | GOOD | <1,000 SF | LOW            |
| A    | *3        | DUCT SEAM MASTIC | WEST DUCT RUN            | NF   | GOOD | <1,000 SF | LOW            |
| B    | 4         | FOOTING MASTIC   | NORTH EAST FOOTING       | NF   | GOOD | <1,000 SF | LOW            |
| B    | 5         | FOOTING MASTIC   | SOUTH EAST FOOTING       | NF   | GOOD | <1,000 SF | LOW            |
| B    | *6        | FOOTING MASTIC   | WEST FOOTING             | NF   | GOOD | <1,000 SF | LOW            |
| C    | 7         | ELBOW            | EXTERIOR NORTH EAST PIPE | F    | GOOD | <1,000 SF | LOW            |
| C    | 8         | ELBOW            | EXTERIOR NORTH EAST PIPE | F    | GOOD | <1,000 SF | LOW            |
| C    | 9         | ELBOW            | EXTERIOR NORTH WEST PIPE | F    | GOOD | <1,000 SF | LOW            |
| D    | 10        | WHITE MASTIC     | INTERIOR NORTH EAST PIPE | NF   | GOOD | <1,000 SF | LOW            |

JERRY KNOX

*Mike Muncy*

Signature

MP-00161 FM# 00538122

Requestor

JERRY KNOX

Reset Form

Print Form



359

Building # #080 - WARDLAW Sample Analysis Date: 01/18/2017 Turn Around Time

Type of Analysis: Lead / Asbestos

| Area | Sample ID | Material Sampled | Material Location        | F/NF | Cond | Quantity  | Pot to Disturb |
|------|-----------|------------------|--------------------------|------|------|-----------|----------------|
| D    | 11        | WHITE MASTIC     | INTERIOR NORTH EAST PIPE | NF   | GOOD | <1,000 SF | LOW            |
| D    | *12       | WHITE MASTIC     | INTERIOR NORTH EAST PIPE | NF   | GOOD | <1,000 SF | LOW            |
|      |           |                  |                          |      |      |           |                |
|      |           |                  |                          |      |      |           |                |
|      |           |                  | * - TEM iF Neg           |      |      |           |                |
|      |           |                  |                          |      |      |           |                |
|      |           |                  |                          |      |      |           |                |
|      |           |                  |                          |      |      |           |                |
|      |           |                  |                          |      |      |           |                |
|      |           |                  |                          |      |      |           |                |

License # MP-00161 FM# 00538122 Signature Mike Mandy Requestor JERRY KNOX

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

Description HAZ MAT SURVEY - WARDLAW COLLEGE AHU REPLACEMENT

|                  |                     |                     |                          |
|------------------|---------------------|---------------------|--------------------------|
| <b>Site</b>      | COLUMBIA            | <b>Assigned To</b>  | JPROVENCE                |
| <b>Building</b>  | 080 WARDLAW COLLEGE | <b>Crew</b>         | HAZMAT                   |
| <b>Floor</b>     | <b>Room:</b>        | <b>Start Date</b>   | <b>Priority</b> 5        |
| <b>Equipment</b> |                     | <b>Due date</b>     | 11-JAN-16                |
|                  |                     | <b>Request Date</b> | 11-DEC-15 <b>by</b> JOYG |

|                    |            |                    |  |
|--------------------|------------|--------------------|--|
| <b>Request #</b>   | FM00505544 | <b>Description</b> | HAZ MAT SURVEY - WARDLAW COLLEGE AHU REPLACEMENT |
| <b>Parent WO #</b> |            |                    |  |

|                  |            |                                 |
|------------------|------------|---------------------------------|
| <b>CP Number</b> | 50002911-6 | WARDLAW COLLEGE AHU REPLACEMENT |
|------------------|------------|---------------------------------|

|                                      |          |
|--------------------------------------|----------|
| <b>State/Internal Project Number</b> | H27-6117 |
|--------------------------------------|----------|

|                           |  |  |                |
|---------------------------|--|--|----------------|
| <b>Requestor</b>          |  | <b>Project Manager</b>                             | KNOX, JERRY L. |
| <b>Telephone</b>          |  | <b>Telephone</b>                                   |                |
| <b>Alternate</b>          |  | <b>Estimated Cost</b>                              | \$ 0.00        |
| <b>Telephone</b>          |  | <b>Billing</b>                                     | FIXED PRICE    |
| <b>Non-Available Time</b> |  | 53160-W811-57120 (2015-16 MAINTENANCE NEEDS ACT 6) |                |

**Task List**

|                             |                    |                       |
|-----------------------------|--------------------|-----------------------|
| <b>DATE WORK STARTED</b>    | <b>CAUSE</b>       |                       |
| <b>DATE WORK COMPLETED</b>  | <b>CONDITION</b>   |                       |
| <b>EQUIPMENT</b>            |                    |                       |
| <b>CLOSING REMARKS</b>      |                    |                       |
| <b>BENCHSTOCK MATERIALS</b> |                    |                       |
| <b>Qty</b>                  | <b>Description</b> | <b>Price Per Unit</b> |
|                             |                    |                       |
|                             |                    |                       |
|                             |                    |                       |

**Supervisor's Approval** \_\_\_\_\_

| Note Date   | Title                 |
|---|-----------------------|
| 25-JAN-17   | HAZMAT SURVEY RESULTS |
| SURVEY DATE: 1/18/17  |                       |
| INSPECTOR #: DARRYL WASHINGTON II (BI-00568) AND MIKE MINCEY (GR-00052)   |                       |
| STATUS: SCOPE OF WORK FOR THIS PROJECT CONSISTS OF REPLACING THE NUMBER 2 AIR HANDLER UNIT ON THE ROOFTOP OF WARDLAW COLLEGE. THE FOLLOWING MATERIALS HAVE BEEN TESTED FOR ASBESTOS AND RESULTS FOLLOW.   |                       |
| METAL DUCT SEAM MASTIC – POSITIVE FOR ASBESTOS  |                       |
| FOAM GLASS INSULATION WITH ASBESTOS BLACK MASTIC (METAL JACKET WRAPPED) - DEEMED POSITIVE FOR ASBESTOS  |                       |
| FOOTING MASTIC – NEGATIVE FOR ASBESTOS (DO NOT CUT, SAW OR GRIND THE PLASTER! WHILE THE FOOTING MASTIC DID NOT MEET THE SCDHEC OR OSHA DEFINITION OF ASBESTOS CONTAINING MATERIALS, ASBESTOS WAS IDENTIFIED AT LESS THAN 1 PERCENT IN ONE FOOTING MASTIC SAMPLE. AS A RESULT, WE DO NOT WANT TO RENDER THE MATERIAL FRIABLE AND INCREASE THE CHANCE OF ASBESTOS FIBERS BEING RELEASED.) |                       |
| GRAY TSI ELBOW MATERIAL- NEGATIVE FOR ASBESTOS  |                       |
| WHITE MASTIC (INTERIOR NORTH EAST PIPE) - NEGATIVE FOR ASBESTOS   |                       |
| PREVIOUS SURVEY RESULTS:  |                       |
| BUILT UP ROOFING MATERIAL- POSITIVE FOR ASBESTOS  |                       |



MAIN TRUNK LINE- POSITIVE FOR ASBESTOS  
LOWER INTAKE DUCT (BOTTOM OF UNIT) - POSITIVE FOR ASBESTOS  
GRAY / WHITE FOOTING PAINT- NEGATIVE FOR LEAD  
GRAY / WHITE AIR HANDLER UNIT WALL PAINT- NEGATIVE FOR LEAD

INSPECTOR'S NOTES:

- AS PART OF THIS PROJECT PER PROJECT MANAGER JERRY KNOX, THE ROOF WILL NOT BE DISTURBED AS PART OF THIS AIR HANDLER UNIT REPLACEMENT PROJECT.
- PRE PLANNING FOR REMOVAL OF THIS UNIT WILL BE NEEDED DUE TO ASBESTOS DETECTED ON COMPONENTS ON THIS UNIT.
- IF ANY WALLS ON THE INTERIOR OF THE BUILDING WILL BE DISTURBED, PLEASE CONTACT USC HAZMAT CREW FOR ASSISTANCE DUE TO ASBESTOS CONTAINING JOINT COMPOUND.

IF YOU ENCOUNTER ANY OTHER MATERIALS IN PLACE AND DEEM THEM SUSPECT FOR ASBESTOS AND/OR LEAD, PLEASE STOP WORK AND CONTACT THE ASBESTOS PROGRAM MANAGER FOR FURTHER TESTING OR ABATEMENT.

PLEASE NOTE THAT THE MATERIAL QUANTITY PROVIDED ON THE FIELD SHEET IS ONLY AN ESTIMATE FOR SAMPLING PURPOSES. THE QUANTITY SHOULD BE FIELD VERIFIED FOR ALL OTHER PURPOSES INCLUDING ABATEMENT.

REFER TO THE SURVEY RESULTS ATTACHED TO THE WORK ORDER FOR DETAILED INFORMATION.

**08-SEP-16 ASBESTOS SUMMARY FOR WARDLAW COLLEGE (080) – SEPTEMBER 2016**

ASBESTOS HAS BEEN FOUND IN THIS BUILDING. IF DISTURBED, ASBESTOS MAY BE HARMFUL TO YOUR HEALTH.

PLEASE DO NOT DISTURB THE FOLLOWING MATERIALS IN THIS BUILDING AS THEY HAVE BEEN FOUND TO CONTAIN ASBESTOS.

- JOINT COMPOUND / SHEETROCK (3RD FLOOR ONLY)
- 9X9 FLOOR TILE
- BLACK MASTIC UNDER FLOOR TILE
- RESIDUAL BLACK MASTIC ON FLOORING
- BLACK DUCT MASTIC
- PIPE INSULATION
- BLACK MASTIC ON PIPE INSULATION
- RED FIRE CAULKING

IF A BUILDING MATERIAL IS NOT LISTED, DO NOT ASSUME THAT IT DOES NOT CONTAIN ASBESTOS. IT MAY NOT HAVE BEEN TESTED.

FOR FURTHER INFORMATION, PLEASE CONTACT THE USC HAZMAT PROGRAM.

**08-SEP-16 CRAWL SPACE MAY BE CONTAMINATED WITH ASBESTOS**

THE SOIL IN CRAWL SPACES MAY BE CONTAMINATED WITH ASBESTOS FROM OLD PIPE INSULATION AND OTHER MATERIALS. PLEASE CONTACT THE USC HAZMAT PROGRAM BEFORE ENTERING THESE CRAWL SPACES.



# EMSL Analytical, Inc.

706 Gralin Street Kernersville, NC 27284

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

<http://www.EMSL.com> / [greensborolab@emsl.com](mailto:greensborolab@emsl.com)

EMSL Order: 021700339

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:** 01/19/2017 9:20 AM

**Analysis Date:** 01/19/2017

**Collected Date:** 01/18/2017

**Project:** 80 - Wardlaw

## 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                       |
| 1<br>021700339-0001  | Duct Seam Mastic | Gray/Tan/White<br>Non-Fibrous<br>Homogeneous | <1% Cellulose                    | 97% Non-fibrous (Other)  | 3% Chrysotile                |
| 2<br>021700339-0002  | Duct Seam Mastic |  |                                  |                          | Positive Stop (Not Analyzed) |
| 3<br>021700339-0003  | Duct Seam Mastic |  |                                  |                          | Positive Stop (Not Analyzed) |
| 4<br>021700339-0004  | Footing Mastic   | Black<br>Non-Fibrous<br>Homogeneous          | <1% Cellulose                    | 100% Non-fibrous (Other) | None Detected                |
| 5<br>021700339-0005  | Footing Mastic   | Black<br>Non-Fibrous<br>Homogeneous          | <1% Cellulose                    | 100% Non-fibrous (Other) | None Detected                |
| 6<br>021700339-0006  | Footing Mastic   | Gray/Black<br>Non-Fibrous<br>Homogeneous     | <1% Cellulose                    | 100% Non-fibrous (Other) | None Detected                |
| 7<br>021700339-0007  | Elbow            | Gray<br>Fibrous<br>Homogeneous               | <1% Cellulose<br>8% Glass        | 92% Non-fibrous (Other)  | None Detected                |
| 8<br>021700339-0008  | Elbow            | Gray<br>Fibrous<br>Homogeneous               | <1% Cellulose<br>5% Glass        | 95% Non-fibrous (Other)  | None Detected                |
| 9<br>021700339-0009  | Elbow            | Gray/White<br>Fibrous<br>Homogeneous         | 1% Cellulose<br>5% Glass         | 94% Non-fibrous (Other)  | None Detected                |
| 10<br>021700339-0010 | White Mastic     | White<br>Non-Fibrous<br>Homogeneous          | <1% Cellulose<br>3% Wollastonite | 97% Non-fibrous (Other)  | None Detected                |
| 11<br>021700339-0011 | White Mastic     | White<br>Non-Fibrous<br>Homogeneous          | <1% Cellulose<br>3% Wollastonite | 97% Non-fibrous (Other)  | None Detected                |
| 12<br>021700339-0012 | White Mastic     | White<br>Non-Fibrous<br>Homogeneous          | <1% Cellulose<br>3% Wollastonite | 97% Non-fibrous (Other)  | None Detected                |

Initial report from: 01/19/2017 16:35:50



# EMSL Analytical, Inc.

706 Gralin Street Kernersville, NC 27284

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

<http://www.EMSL.com> / [greensborolab@emsl.com](mailto:greensborolab@emsl.com)

**EMSL Order:** 021700339

**Customer ID:** UNSC62

**Customer PO:**

**Project ID:**

Analyst(s)

*Nicole Shutts (7)*

*Scott Combs (3)*

Stephen Bennett, Laboratory Manager  
or Other Approved Signatory

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. Kernersville, NC NVLAP Lab Code 102104-0, CA ELAP 2689, Virginia 3333-000228, West Virginia LT000321

Initial report from: 01/19/2017 16:35:50



# EMSL Analytical, Inc.

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

**EMSL Order:** 021700339  
**Customer ID:** UNSC62  
**Customer PO:**  
**Project ID:**

**Attention:** USC Hazmat  
University of South Carolina  
743 Greene Street  
Columbia, SC 29208  
**Project:** 80 - Wardlaw

**Phone:** (803) 777-7000  
**Fax:** (803) 777-3990  
**Received Date:** 01/19/2017 9:20 AM  
**Analysis Date:** 01/20/2017  
**Collected Date:** 01/18/2017

## 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       |
|----------------------|----------------|--|-------------------|-----------------------|----------------------|
| 6<br>021700339-0006  | Footing Mastic | Gray/Black<br>Non-Fibrous<br>Homogeneous | 100               | None                  | <0.1% Chrysotile     |
| 12<br>021700339-0012 | White Mastic   | White<br>Non-Fibrous<br>Homogeneous      | 100               | None                  | No Asbestos Detected |

Analyst(s)

Stephen Bennett (2)

Stephen Bennett, Laboratory Manager  
or other approved signatory

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. Kernersville, NC

Initial report from: 01/20/2017 09:11:42