

**Pre-Bid Meeting Notes
and
Addendum #1 to Project Manual
for:
Russell House GMP
Roof Replacement
State Project #: H27-Z223**

Issued July 1, 2015

- 1) Contractors are to stage this project and store materials within the yellow bordered area shown in Figure #1. Red arrows indicate area that must be kept clear.

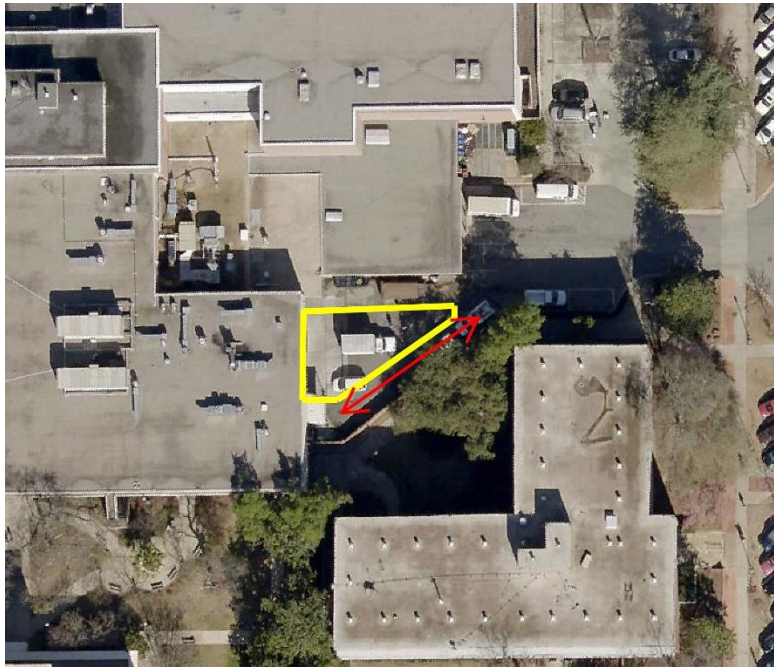


Figure 1

- 2) The specified construction fencing is only required at the entrance of the staging/storage area.
- 3) Contractors were instructed by USC purchasing to check the procurement website for updates regarding this project. It is the contractor's sole responsibility to make sure they acknowledge all addendums issued for this project.

- 4) Bill Livingston, mechanical engineer, with Swygert Associates conveyed that the mechanical subcontractor must have an "HT" designation from The Department of Labor, Licensing and Regulation (LLR).
- 5) Return site visits must coordinated with Dale Branham (USC, Manager of Preventative Maintenance). A coordinated site visit is planned for Monday, July 6th at 10:00 AM but will only take place if requests are received. Dale's phone number is 803-777-1288. His email is branhamd@fmc.sc.edu.
- 6) Contractors were warned by USC that the use of unlicensed subcontractors is cause for the immediate dismissal of their bid.
- 7) No component of this this project will commence before students complete their move-in for the fall semester (August 15th).
- 8) The deadline for questions is July 7th at 2:00 PM. All questions related to this project must be submitted in writing to Rob Lyon of Lyon & Associates, USC's roof consultant for this project. His email address is roblyon@lyonandassociates.net.
- 9) The pre-bid sign-in sheet is attached and is a component of this addendum.
- 10) The results of the asbestos testing of the window caulking is attached and is a component of this addendum.



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

Project Name: RUSSELL HOUSE GMP ROOF REPLACEMENT

Project Number: H27-Z223
Pre Bid Date & time: JUNE 30, 2015 @10:00AM

Name	Company	Address	Phone #	Email
Steve Martin Jr	Watts and Assoc Roofing	7416 Fairfield road Columbia SC 29203	803-786-4610	Stevejr@wattsroofing.com
John A. Gamm	CCR	5433 Adriaan Hwy Conway SC	843-369-4101 843-369-4103	jgamm@scowest.net
David Swens	Tetra America	Indiana Trail, PO Box 2678 13615 E. Independence Blvd	704-882-1200	dswen@tetra-america.com
Lee Miller	USC Facilities			mille979@milbox.sc.edu
DANA NEVILLE	Aqua Seal Roofing	P.O. Box 2238 West Columbia, SC 29171	803-936-0420	dana@agrasa.sc.com
Catherine Bennett	USC Facilities	742 Greave St Columbia, SC	803-777-5817	cb@facilities.sc.edu

*Please make sure you list your company name as registered with LTR.
*By signing and providing your email address, you are authorizing the University of South Carolina to send you information electronically.



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

Project Name
RUSSELL HOUSE GMP ROOF REPLACEMENT

Project Number H27-Z223
Pre Bid Date & time JUNE 30, 2015 @10:00AM

Name	Company	Address	Phone #	Email
DALE BRAJMAN	USC		(803) 777-1288	SEADJMAN@SC.EDU
Rob Lyon	Lyon Associates		(803) 386-0301	roblyon@lyonandassoc-
DARIN SUEZ	Tetra America		704-882-1200 darned@tetra.com	lites.net
Hatce Hikmet	USC		803-777-9994	hikmeth@mailbox.sc.edu
BILL WINGSTON	SWGERT		(803) 791-4300	BILL@SWGERT-ASSOCIATES.COM
Brian Wood	USC		803 422-5441	woodbr@mailbox.sc.edu
Jush. White	RSC / Soprens		(704) 458-6934	jush@rooferupply.com

*Please make sure you list your company name as registered with LR.
* By signing and providing your email address, you are authorizing the University of South Carolina to send you information electronically.



EMSL ANALYTICAL INC.
Laboratory Accredited

Asbestos Bulk Building Material Chain of Custody

EMSL Order Number (Lab Use Only):

3423

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	
Street 743 Greene Street		If Bill to is Different note instructions in Comments*	
City Columbia	State/Province SC	Zip/Postal Code 29208	Country US
Report To (Name) USC Hazmat		Third Party Billing requires written authorization from third party	
Email Address asbestos@mailbox.sc.edu		Telephone # 803-509-3376	Purchase Order
Project Name/Number RUSSELL HOUSE		Please Provide Results <input type="checkbox"/> Fax <input checked="" type="checkbox"/> Email	
U.S. State Samples Taken SC ROOF		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>PLM - Bulk (reporting limit)</p> <p><input checked="" type="checkbox"/> PLM EPA 600/R-93/116 (<1%)</p> <p><input type="checkbox"/> PLM EPA NOB (<1%)</p> <p>Point Count <input type="checkbox"/> 400 (<0.25%) <input type="checkbox"/> 1000 (<0.1%)</p> <p>Point Count w/Gravimetric <input type="checkbox"/> 400 (<0.25%) <input type="checkbox"/> 1000 (<0.1%)</p> <p><input type="checkbox"/> NIOSH 9002 (<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>TEM - Bulk</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;">Other</p> <p><input type="checkbox"/></p>
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Check For Positive Stop - Clearly Identify Homogenous Group Date Sampled:

Samplers Name: _____ Samplers Signature: _____

Sample #	HA #	Sample Location	Material Description
		3 HR PLM / 6 HR TEM	
		TEM if neg	
		Stop Positive	

Client Sample # (s)	Total # of Samples: 9
Relinquished (Client): E. Milano	Date: 6/30/15
Received (Lab): JH	Date: 7-1-15
Comments/Special Instructions:	Time: 10:20
③ EMSL EX 7950 4933 2850	

3423



Building # 112 - RUSSELL HOUSE

Sample Analysis Type of Analysis: Lead / Asbestos

Date: 6/30/15

Turn Around Time: 3 HR / 6 HR
 PLM / TEM

Area	Sample ID	Material Sampled	Material Location	F/NF	Cond	Quantity	Pot to Disturb
A	1	WINDOW GLAZING	OUTSIDE ROOM 218B WINDOW	NF	FAIR	< 100 LF	LOW
A	2	WINDOW GLAZING	OUTSIDE ROOM 218B WINDOW	NF	FAIR	< 100 LF	LOW
A	3	WINDOW GLAZING	OUTSIDE ROOM 218B WINDOW	NF	FAIR	< 100 LF	LOW
B	4	GRAY CAULKING	OUTSIDE ROOM 218B WINDOW	NF	FAIR	< 50 LF	LOW
B	5	GRAY CAULKING	OUTSIDE ROOM 218B WINDOW	NF	FAIR	< 50 LF	LOW
B	6	GRAY CAULKING	OUTSIDE ROOM 218B WINDOW	NF	FAIR	< 50 LF	LOW
C	7	WHITE CAULKING	OUTSIDE ROOM 218B WINDOW	NF	FAIR	< 100 LF	LOW
C	8	WHITE CAULKING	OUTSIDE ROOM 218B WINDOW	NF	FAIR	< 100 LF	LOW
C	9	WHITE CAULKING	OUTSIDE ROOM 218B WINDOW	NF	FAIR	< 100 LF	LOW

License # BI-01296

FM# 00482461

Signature

S. Melton

Requestor

DALE BRANHAM

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

Reset Form

Print Form

Description RUSSELL HOUSE FOOD COURT ROOF - HAZMAT SURVEY

Site	COLUMBIA	Assigned To	JPROVENCE
Building	112 RUSSELL HOUSE	Crew	HAZMAT
Floor	ROOF	Start Date	11-MAR-15
Room:		Priority	3
Equipment		Due date	31-MAR-15
		Request Date	11-MAR-15
		by	BRANHAMD

Request #	SR00424823	Description	RUSSELL HOUSE FOOD COURT ROOF - HAZMAT SURVEY
Parent WO #			

CP Number

State/Internal Project Number

Requestor	BRANHAMD,DALE	Project Manager	
Telephone	7-1288	Telephone	
Alternate		Estimated Cost	\$ 0.00
Telephone		Billing	FIXED PRICE
Non-Available Time		50010-A000-52043 (MAINTENANCE SERVICES)	

Task List
HAZMAT SURVEY OF ROOF OVER KITCHEN AREA.

DATE WORK STARTED	CAUSE
DATE WORK COMPLETED	CONDITION
EQUIPMENT	
CLOSING REMARKS	
BENCHSTOCK MATERIALS	
Qty	Description
	Price Per Unit

Supervisor's Approval _____

Note	Date	Title
18-MAR-15	HAZMAT SURVEY RESULTS	
SURVEY DATES: 3/11/15		
INSPECTOR #: BRIAN WOOD (GR-00052)		
STATUS: THE FOLLOWING MATERIALS HAVE BEEN TESTED FOR ASBESTOS AND RESULTS FOLLOW:		
TSI (OLD HVAC PIPE INSULATION)- POSITIVE FOR ASBESTOS		
FLASHING CAULK- POSITIVE FOR ASBESTOS		
PIPE INSULATION - POSITIVE FOR ASBESTOS		
OLD HVAC SEALANT -NEGATIVE FOR ASBESTOS (DO NOT CUT, SAW OR GRIND THE OLD HVAC SEALANT! WHILE THE OLD HVAC SEALANT DID NOT MEET THE SCDHEC OR OSHA DEFINITION OF ASBESTOS CONTAINING MATERIALS, ASBESTOS WAS IDENTIFIED AT LESS THAN 1 PERCENT IN ONE OLD HVAC SEALANT SAMPLE. AS A RESULT, WE DO NOT WANT TO RENDER THE MATERIAL FRIABLE AND INCREASE THE CHANCE OF ASBESTOS FIBERS BEING RELEASED.)		

BUILT UP ROOFING WITH INSULATION- NEGATIVE FOR ASBESTOS

FELT PATCH- NEGATIVE FOR ASBESTOS

OLD HVAC EXPANSION JOINT- NEGATIVE FOR ASBESTOS

OLD HVAC DUCT INSULATION- NEGATIVE FOR ASBESTOS

OLD HVAC DUCT INSULATION- NEGATIVE FOR ASBESTOS

INSPECTORS NOTES:

- USC ROOFING CREW CAN ASSIST IN IDENTIFYING LOCATION OF MATERIAL.

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.

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.

02-JUL-15 HAZMAT SURVEY RESULTS

SURVEY DATE: 6/30/15

INSPECTOR: ERIC MELARO (BI-01296)

STATUS: THE INSPECTOR WALKED THE PROJECT WITH THE REQUESTOR (DALE BRANHAM) DURING THE PRE-BID. THE PROJECT SCOPE HAS BEEN EXPANDED TO INCLUDE REGLAZING AND RECAULKING THE WINDOW OUTSIDE ROOM 218B.

THE FOLLOWING MATERIALS HAVE BEEN TESTED FOR ASBESTOS AND THE RESULTS FOLLOW.

WINDOW GLAZING – POSITIVE FOR ASBESTOS

GRAY/TAN CAULKING – POSITIVE FOR ASBESTOS

WHITE CAULKING – PRESUMED POSITIVE FOR ASBESTOS

INSPECTOR'S NOTES:

WHILE THE WHITE CAULKING TESTED NEGATIVE FOR ASBESTOS, IT WILL BE DIFFICULT TO REMOVE IT WITHOUT DISTURBING THE GRAY/TAN CAULKING THAT IS POSITIVE FOR ASBESTOS. FOR THIS REASON, THE WHITE CAULKING IS BEING PRESUMED TO BE POSITIVE FOR ASBESTOS.

THIS SURVEY SUPPLEMENTS THE SURVEY THAT WAS CONDUCTED IN MARCH 2015.

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-APR-04 ASBESTOS MAY BE PRESENT IN THIS BUILDING

WARNING - ASBESTOS EXPOSURE ALERT - EXPOSURE TO ASBESTOS MAY BE HARMFUL TO YOUR HEALTH.

AS OF 4/1/2004 THE FOLLOWING AREAS WITHIN THE BUILDING HAVE BEEN IDENTIFIED BY SURVEY TO CONTAIN ASBESTOS:

BLDG 112 RUSSELL HOUSE

2ND & 3ND FLOOR LOUNGES & IN STAIRWELL --> CONCRETE SLAB CEILINGS & WALLS [12,000 SQ. FT.]
--> STEAM & HOT WATER & CONDENSATE ELBOWS [50 LIN. FT.]
MECHANICAL RM --> STEAM PIPE HOT WATER TANK KITCHEN & PIPING TO HVAC [800 LIN. FT.]
BASEMENT MECHANICAL RM --> HOT WATER PIPE [200 LIN. FT.]
LOWER LEVEL MECHANICAL RM --> HOT WATER TANK [200 SQ. FT.]
BASEMENT MECH. ROOM, 2ND FLOOR MECH. ROOM, 3ND FLOOR MECH. ROOM --> CHILL WATER PIPE [400 LIN. FT.]

PLEASE NOTE - IDENTIFICATION OF ASBESTOS CONTAINING COMPONENTS WITHIN THIS STRUCTURE DOES NOT SPECIFICALLY EXCLUDE THE PRESENCE OF ASBESTOS WITHIN OTHER AREAS.

THE FOLLOWING COMMON TYPES OF BUILDING COMPONENTS COULD CONTAIN MATERIALS THAT, WHEN DISTURBED, MIGHT EXPOSE YOU TO ASBESTOS:

1. FLOOR TILE
2. PIPE INSULATION
3. BLACK MASTIC
4. HVAC DUCT MASTIC
5. SPRAYED-ON FIREPROOFING
6. SPRAYED-ON CEILINGS
7. SHEETROCK JOINT COMPOUND

BEFORE DISTURBING THESE TYPES OF COMPONENTS, CONFIRM THAT THEY DO NOT CONTAIN ASBESTOS AND TAKE PROPER PRECAUTIONS AT ALL TIMES.

25-OCT-13 ASBESTOS IN JOINT COMPOUND

ASBESTOS CONTAINING JOINT COMPOUND HAS BEEN FOUND IN THIS BUILDING. DO NOT CUT, SAND OR DRILL WALLS. FOR FURTHER INFORMATION OR ASSISTANCE, PLEASE CONTACT THE USC HAZMAT PROGRAM.

12-AUG-10 2009-09-23 BLDG COMPONENT ASBESTOS/LEAD EXPOSURE UPDATE

BELOW ARE THE ASBESTOS AND LEAD TESTING RESULTS FOR THE RUSSELL HOUSE:

SHEET ROCK: NEGATIVE FOR ASBESTOS CONTAINING MATERIALS

JOINT COMPOUND: POSITIVE FOR ASBESTOS CONTAINING MATERIALS

2X2 WHITE CEILING TILE: NEGATIVE FOR ASBESTOS CONTAINING MATERIALS

WHITE WALL PAINT (HOMOGENIUS): NEGATIVE FOR LEAD BASE PAINT

THE RUSSELL HOUSE HAS NUMEROUS AMOUNTS OF FLOOR TILE IN PLACE AND ALL SHOULD ASSUME IT TO BE POSITIVE FOR ASBESTOS CONTAINING MATERIALS. THE MASTIC THAT HOLDS IT TO THE FLOOR IS ALSO POSITIVE FOR ASBESTOS.

THERE IS PIPE INSULATION THAT IS HARD AND WHITE IN COLOR THAT IS POSITIVE FOR ASBESTOS CONTAINING MATERIAL

THE BLACK MASTIC ON HVAC DUCTS AND ON LINES ABOVE THE CEILING IS ALSO POSITIVE FOR ASBESTOS.

NO DRILLING INTO THE WALL MATERIAL UNLESS UOU CAN DETERMINE WHERE THE JOINTS ARE LOCATED

IF YOU AND/OR CONTRACTORS NEED TO DISTURB ANY MATERIALS YOU DEEM SUSPECT THAT ARE NOT LISTED ABOVE, STOP WORK AND CONTACT THE ASBESTOS PROGRAM MANAGER, 777-1208. IF YOU NEED TO DISTURB ANY MATERIAL LISTED AS POSITIVE, YOU MUST CONTACT THE ASBESTOS PROGRAM MANAGER TO ARRANGE FOR REMOVAL. THIS INFORMATION MUST BE PASSED ALONG TO ALL CONTRACTORS, SUB-CONTRACTORS, AND INDIVIDUALS WORKING IN THIS BUILDING

**EMSL Analytical, Inc.**

706 Gralin Street, Kernersville, NC 27284

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

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

EMSL Order:	021503423
CustomerID:	UNSC62
CustomerPO:	
ProjectID:	

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

Phone: (803) 777-7000
 Fax: (803) 777-3990
 Received: 07/01/15 10:20 AM
 Analysis Date: 7/1/2015
 Collected:

Project: 112 Russell House

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 <i>021503423-0001</i>	Window Glazing	Gray/Tan Non-Fibrous Homogeneous	<1% Cellulose	30% Ca Carbonate 70% Non-fibrous (other)	None Detected
2 <i>021503423-0002</i>	Window Glazing	Gray/Tan Non-Fibrous Homogeneous	<1% Cellulose	30% Ca Carbonate 70% Non-fibrous (other)	None Detected
3-Gray Window Glazing <i>021503423-0003</i>	Window Glazing	Gray Non-Fibrous Homogeneous	<1% Cellulose	30% Ca Carbonate 70% Non-fibrous (other)	None Detected
3-White Window Glazing <i>021503423-0003A</i>	Window Glazing	White Non-Fibrous Homogeneous	<1% Cellulose	20% Ca Carbonate 77% Non-fibrous (other)	3% Chrysotile
4-Gray Thick Caulk <i>021503423-0004</i>	Gray Caulking	Gray Non-Fibrous Homogeneous	<1% Min. Wool <1% Cellulose	100% Non-fibrous (other)	None Detected
4-Tan Thin Caulk <i>021503423-0004A</i>	Gray Caulking	Tan Non-Fibrous Homogeneous	<1% Cellulose	20% Ca Carbonate 77% Non-fibrous (other)	3% Anthophyllite
5 <i>021503423-0005</i>	Gray Caulking	Gray/Tan Non-Fibrous Heterogeneous	<1% Cellulose <1% Min. Wool	100% Non-fibrous (other)	None Detected
			No Tan Thin Caulk Present.		
6 <i>021503423-0006</i>	Gray Caulking	Gray/Tan Non-Fibrous Homogeneous	<1% Cellulose	100% Non-fibrous (other)	None Detected
			No Thin Tan Layer Present		

Analyst(s) _____

Nicole Shutts (4)

Scott Combs (7)

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 07/01/2015 12:38:23

**EMSL Analytical, Inc.**

706 Gralin Street, Kernersville, NC 27284

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

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

EMSL Order: 021503423

CustomerID: UNSC62

CustomerPO:

ProjectID:

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

Phone: (803) 777-7000
 Fax: (803) 777-3990
 Received: 07/01/15 10:20 AM
 Analysis Date: 7/1/2015
 Collected:

Project: 112 Russell House

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
7 021503423-0007	White Caulking	Gray/White Non-Fibrous Homogeneous	<1% Cellulose	100% Non-fibrous (other)	None Detected
8 021503423-0008	White Caulking	Gray/White Non-Fibrous Homogeneous	<1% Cellulose	100% Non-fibrous (other)	None Detected
9 021503423-0009	White Caulking	Gray/White Non-Fibrous Homogeneous	<1% Cellulose	100% Non-fibrous (other)	None Detected

Analyst(s)

Nicole Shutts (4)

Scott Combs (7)

Stephen Bennett, Laboratory Manager
or other approved signatory

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 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 07/01/2015 12:38:23

**EMSL Analytical, Inc.**

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 Phone/Fax: (336) 992-1025 / (336) 992-4175
<http://www.EMSL.com> greensborolab@emsl.com

EMSL Order: 021503423
 CustomerID: UNSC62
 CustomerPO:
 ProjectID:

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


Phone: (803) 777-7000
 Fax: (803) 777-3990
 Received: 07/01/15 10:20 AM
 Analysis Date: 7/1/2015
 Collected:

Project: 112 Russell House

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
1 <i>021503423-0001</i>	Window Glazing	Gray/Tan Fibrous Heterogeneous	100	None	<0.1% Chrysotile
4-Gray Thick Caulk <i>021503423-0004</i>	Gray Caulking	Gray Fibrous Heterogeneous	100	None	No Asbestos Detected
7 <i>021503423-0007</i>	White Caulking	Gray/White Fibrous Heterogeneous	100	None	No Asbestos Detected

Analyst(s) _____
 Kristie Elliott (3)


 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 07/01/2015 16:15:02