



**Upstate Replace Boiler at CASB
University of South Carolina Upstate
Spartanburg, SC**

SC State Project # H34-9546

Addendum No. 1

DATE: March 23, 2018

FROM: PERITUS ENGINEERS & ASSOCIATES, INC.

TO: ALL BIDDERS

The following items add to, modify, clarify, or otherwise alter the Drawings and/or specifications and will become a part of the Contract Documents. Where a portion of the Drawings and/or specifications is added to, modified, clarified, or otherwise altered, the portion not so affected shall remain. Bidder shall include all effects that these items may have on his proposal.

Acknowledge receipt of this addendum in the space provided on the Bid Form. Failure to do so may subject Bidder to disqualification.

Pre-Bid Meeting:

1. The attendance sign-in sheet from the non-mandatory prebid conference meeting held Tuesday, 3/20/2018, at 10:00 AM is included as an attachment with this addendum.

Clarifications:

1. Bid closing deadline is 4-5-2018, 2pm. Refer to the SE-310 document in the project manual for specific bid delivery information.
2. Deadline for written questions via email is 3-28-2018, 5pm. All questions/inquiries shall be emailed to the project engineer, Jody Parker, PE at jparker@peritusengineers.com
3. Final addendum shall be posted by 3-30-2018, 2pm
4. Bid security in the amount of 5% of base bid is required.

PERITUS ENGINEERS & ASSOCIATES, INC.

P.O. Box 16598, Greenville, SC 29606 10 E. Dorchester Blvd. Greenville, SC 29605
o. 864-277-8287, f. 864-277-8290, peritus@peritusengineers.com

5. Bidding contractors must be properly licensed in order to perform the work according to the project documents, including, but not limited to, a “BL” endorsement license.
6. New Boiler installation is to be registered with LLR and the installation shall be inspected by a Boiler Inspector, as part of the registration process.
7. The owner will be contracting separately with a hazardous material abatement contractor to remove the potentially friable 4LF ACM on the rope gasket on the Boiler. The initial hazardous material report is included as an attachment with this addendum.
8. The mechanical contractor awarded this project shall break loose the field connections to the existing boiler, including, but not limited to, gas connections, hot water supply and return connections, oil feed connections, electrical connections, and flue vent connections, prior to the hazardous material abatement contractor performing their work.
9. The mechanical contractor awarded this project shall be responsible for the complete demolition, removal, and off-site disposal of the existing boiler.
10. Electrical power for the boiler burner shall be 120V/1/60. A three (3) - phase power source for the boiler is not required.
11. Replacement boiler shall utilize gas fuel only, and not fuel oil. Replacement boiler burner shall not feature dual-fuel capability.
12. Boiler working pressure shall be 60 psig.
13. The mechanical contractor awarded this project shall execute a signed a Work Permit with the owner prior to commencement of project.

Prior approvals:

1. Specification section 235233: The following commercial cast-iron boiler manufacturers are approved. “Peerless” and “Smith”. Approval is subject to compliance with project drawings and specifications, including, but not limited to, boiler performance, boiler capacity, and boiler dimensions and associated clearance requirements required for proper installation.

END OF ADDENDUM NO. 1

University of South Carolina
Non Mandatory Pre Bid Sign In Sheet
 Spartanburg, SC

Project Name: Upstate Replace Boiler at CASB
 Project Number: H34-9546
 Pre Bid Date & Time: March 20, 2018 10AM 155 American Way Conf Rm 110

SWMBE Contractor Indicate Classification Below	Name	Company Name	Address	Phone #	Email
S W M B E	Cody Gaffrey	UPSTATE	800 University Way Spartanburg SC	864-503-5500	Cgaffrey@usc.upstate.edu
S W M B E	Aaron Peck	McCarter Mechanical	685 John Dadd Rd Spartanburg SC	864-549-7883	aaronp@mccartermechanical.com
S W M B E	Marlin Harbort	Boiler Masters	314 V. Unabz Cir Gonzalesboro NC 29416	DL 336-272-9044	boilermasters1@aol.com
S W M B E	Ryan Donovan	SHOFFNER KOLTHOFF	150 Glen Bridge Rd Arden, NC 28704	828-230-8473	rdonovan@skmcs.com
S W M B E	Jody Parker	Peritus Engineers	PO Box 16598 Greenville, SC 29606	864-277-8287	jparker@peritusengineers.com
S W M B E	miku Embanks	wc kouse	175 Foster brother Dr. Columbia	803 765 1477	membanks@wckouse.com
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***By signing this sheet you agree to receive information electronically.

LIMITED ASBESTOS INSPECTION REPORT

FOR

University of South Carolina Upstate
800 University Way
Spartanburg, South Carolina 29303

LOCATION

CASB Boiler Room
800 University Way
Spartanburg, SC 29303

INSPECTION DATE: March 4, 2018

REPORT DATE: March 13, 2018

INSPECTOR

Kay H. Horton– SC-DHEC License #ASB-23394
(864) 541-8736

For

Crossroads Environmental, LLC
1258 Boiling Springs Road
Spartanburg, South Carolina 29303
(864) 541-8736
CRE Project # 15835-IN

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March 13, 2018

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

Re: Limited Asbestos Inspection Report
CASB- Boiler Room
800 University Way, Spartanburg, SC 29303
CRE Project Number: 15835-IN

Dear Mr. Godfrey:

Crossroads Environmental, LLC (CRE) performed a limited asbestos inspection in the College of Arts & Sciences Building (CASB) boiler room, located on the campus of USC Upstate at 800 University Way in Spartanburg, South Carolina. The inspection was performed on March 4, 2018 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.**

Area Description

The scope of the asbestos survey included all materials that will impacted by upcoming boiler replacement. The boiler itself contains a metal jacket over fiberglass insulation; however, it contains suspect gasket material. All piping associated with the boiler consists of fiberglass insulation and PVC fittings, which are both non-suspect to contain asbestos.

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.

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 the rope gasket on the boiler contains greater than one percent asbestos.

Relevant Regulatory Requirements/Recommendations

Friability-Friable materials are defined as materials that can be reduced to powder by hand pressure. It should be noted that non-friable materials may become friable depending on the method of removal. All non-friable materials must be removed by properly accredited asbestos personnel. If the non-friable materials are removed in a friable manner, then all regulations in regards to friable abatement will apply, and the abatement must be performed by a SC-DHEC Licensed Asbestos Contractor, and in accordance with all state and federal regulations.

All abatement of asbestos-containing materials (ACM) must be performed by a South Carolina Licensed Asbestos Abatement Contractor.

CRE can further assist with Project Design, Air Monitoring, and/or help in selecting an asbestos abatement contractor.

Closing Statements and Limitations

Every effort was made to identify all materials in accessible areas. There is the possibility that suspect materials were not identified in inaccessible areas. If any suspect material is discovered that is not included within this report, it should be sampled before it is physically disturbed.

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,



Kay H. Horton
Licensed Inspector

ATTACHMENT I
ASBESTOS SUMMARY TABLE W/ PHOTO

CROSSROADS ENVIRONMENTAL, LLC ASBESTOS INSPECTION REPORT							CRE JOB #: 15835-IN		
Location:		College of Arts & Sciences Building (CASB)- Boiler							
Client:		University of South Carolina Upstate					DATE: March 4, 2018		
<p>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 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 NAD=No Asbestos Detected, SP=Stop Positive</p>									
HA#	Type of Material TSI, Surf, Misc.	Material Type	Photo	Sample Number	Asbestos Content (PLM)	Location of Sample	Approx. Quantity	Physical Condition	Location/ Comments
01	Misc.	Rope Gasket		026	80%C	End of boiler	4 In. ft.	Unknown; Friable	Located on the end of the boiler.
				027	S/P	End of boiler			
				028	S/P	End of boiler			

**ATTACHMENT II
LABORATORY REPORT(S)**

HMC #18006834



HAYES

MICROBIAL CONSULTING
3005 East Boundary Terrace, #F
Midlothian, VA 23112, USA
804.562.3435 Fax: 804.447.5562

contact@hayesmicrobial.com
http://hayesmicrobial.com/

Analysis Report prepared for

Crossroads Environmental, LLC

1258 Boiling Springs Road
Spartanburg, SC. 29303
Phone: 864-541-8736 Fax: 864-541-8776

Job Number: 15835-IN
Job Name:
Date Sampled: 03-02-2018
Date Analyzed: 03-06-2018
Report Date: 03-06-2018

EPA Laboratory ID# VA01419



NVLAP Lab Code: 500096-0



Asbestos License: 300435



License: #PH-0198



HAYES

MICROBIAL CONSULTING
3005 East Boundary Terrace, #F
Midlothian, VA 23112, USA
804.562.3435 Fax: 804.447.5562

HMC #18006834

**Crossroads Environmental, LLC
1258 Boiling Springs Road
Spartanburg, SC 29303**

March 6, 2018

Client Job Number: 15835-IN
Client Job Name:

Dear Crossroads Environmental, LLC,

We would like to thank you for trusting Hayes Microbial for your analytical needs. On March 5, 2018 we received 3 samples by FedEx for the job referenced above. 3 samples were received in good condition.

The results in this analysis pertain only to this job, collected on the stated date and should not be used in the interpretation of any other job. This report may not be duplicated, except in full, without the written consent of Hayes Microbial Consulting, LLC.

This laboratory bears no responsibility for sample collection activities, analytical method limitations, or your use of the test results. Interpretation and use of test results are your responsibility. Any reference to health effects or interpretation of mold levels is strictly the opinion of Hayes Microbial Consulting. In no event, shall Hayes Microbial Consulting or any of its employees be liable for lost profits or any special, incidental or consequential damages arising out of your use of the test results.

Steve Hayes, BSMT(ASCP)
Laboratory Director
Hayes Microbial Consulting, LLC



Crossroads Environmental, LLC
 1258 Boiling Springs Road
 Spartanburg, SC 29303
 Phone: 864-541-8736 Fax: 864-541-8776

EPA 600/R-93, M-4/82-020 (PLM)

HMC #18006834

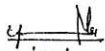
Job Number: 15835-IN	Job Name:	Date Collected: 03/02/2018
Collected by: Kay Horton		Date Received: 03/05/2018
Email: khorton@crossroadsenv.net		Date Reported: 03/06/2018

#	Sample	Name	Description	Asbestos Fibers	Other Fibers	Non- Fibers
1	026	Gasket Material	Fibrous / Brown	80 % Chrysotile	10 % Cellulose fibers	10 %
2	027	Gasket Material	Fibrous / Brown			


Notes: Not Analyzed: Positive Stop.

3	028	Gasket Material	Fibrous / Brown			
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Notes: Not Analyzed: Positive Stop.

Signature: 

Date: 03/06/2018

Reviewed by: 

Date: 03/06/2018



HAYES

MICROBIAL CONSULTING
3005 East Boundary Terrace, #F
Midlothian, VA 23112, USA
804.562.3435 Fax: 804.447.5562

Crossroads Environmental, LLC
1258 Boiling Springs Road
Spartanburg, SC 29303
Phone: 864-541-8736 Fax: 864-541-8776

Asbestos - Additional Information

HMC #18006834

All samples were received in acceptable condition unless otherwise noted on the report. The Report must not be used by the client to claim product certification, approval, or endorsement by: AIHA, NIST, NVLAP NY ELAP, or any agency. The results relate only to the items tested. The results include an inherent uncertainty of measurement associated with estimating percentages by polarized light microscopy. Measurement uncertainty data can be provided when requested. None detected: Below the detected reporting limit of 1% unless point counting is performed, then the detected, reporting limit is .25%. Per NY ELAP198.6 (NOB) TEM is the only reliable method to declare an NOB material as Non-Asbestos Containing. Hayes Microbial Consulting reserves the right to dispose of all samples after a period of 60 days in compliance with state and federal guidelines.

Signature:

Date: 03/06/2018

Reviewed by:

Date: 03/06/2018

**ATTACHMENT III
ACCREDITATION(S)**

SCDHEC ISSUED

Asbestos ID Card

Kay H Horton



		Expiration Date:
CONSULTMP	ASB-23394	12/05/18
AIRAMPLER	ASB-23067	10/30/18
CONSULTPD	ASB-23184	08/03/18