

## Orangeburg County

Request for BID FY12-0625 Removal of Asbestos Council on Aging  
**Addendum No. 4** (herein referred to as “Addendum”)

This Addendum revises the above-described procurement, and is hereby incorporated and made a part of the above-described procurement as if the Addendum had been included in the original procurement documents. Addendum posted on website at [www.orangeburgcounty.org-Purchasing/Bids-Solicitations](http://www.orangeburgcounty.org-Purchasing/Bids-Solicitations)

The addendum is as follows: Project Design Report – July 5, 2012



July 2, 2012

Sinkler Boone, Deputy Administrator  
County of Orangeburg Division of Public Services  
PO Box 9000  
1550 Henley St  
Orangeburg, SC 29116-9000

Subject: Addendum to Asbestos Inspection Report Dated March 15, 2012  
Council on Aging  
2570 St Matthews Road  
Orangeburg, SC

**Additional Samples**

The following samples were collected for PLM and TEM analysis due to the fact that they will be disturbed during pending abatement activities scheduled for removal of the regulated asbestos containing material identified in the office, kitchen and storage/center/entrance areas of the referenced building.

Material Description	Location
Grey cove base	Office
Tan / white mastic / yellow mastic / leveling compound	Office
Brown cove base	Storage/Center/Entrance & Kitchen
Brown mastic	Storage/Center/Entrance & Kitchen

**Findings**

All results were negative for regulated asbestos containing materials. See the attached laboratory certificates of analysis.

If you have questions, please do not hesitate to contact the undersigned at 800-257-8199.

Sincerely,

Christy Brabham, MEERM, CSP  
SCDHEC Licensed Inspector #BI-00472





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# CERTIFICATE OF ANALYSIS

<b>Client:</b>	Compliance Centre	<b>Report Date:</b>	6/19/2012
	920 St. Andrews Rd.	<b>Report No:</b>	276896
	Columbia SC 29210	<b>Project:</b>	Council on Aging
		<b>Project No.:</b>	

## BULK SAMPLE ANALYSIS SUMMARY

<b>Lab No.:</b>	4690581	<b>Description / Location:</b>	Grey Cove Base	
<b>Client No.:</b>	1C			
<u>% Asbestos</u>	<u>Type</u>	<u>% Non-Asbestos Fibrous Material</u>	<u>Type</u>	<u>% Non-Fibrous Material</u>
None Detected	None Detected	None Detected	None Detected	100

<b>Lab No.:</b>	4690581	<b>Description / Location:</b>	Tan/White Mastic/Leveling Compound	<b>Layer No.:</b>	2
<b>Client No.:</b>	1C				
<u>% Asbestos</u>	<u>Type</u>	<u>% Non-Asbestos Fibrous Material</u>	<u>Type</u>	<u>% Non-Fibrous Material</u>	
None Detected	None Detected	None Detected	None Detected	100	

<b>Lab No.:</b>	4690582	<b>Description / Location:</b>	Brown Cove Base	
<b>Client No.:</b>	2A			
<u>% Asbestos</u>	<u>Type</u>	<u>% Non-Asbestos Fibrous Material</u>	<u>Type</u>	<u>% Non-Fibrous Material</u>
None Detected	None Detected	None Detected	None Detected	100

<b>Lab No.:</b>	4690582	<b>Description / Location:</b>	Brown Mastic	<b>Layer No.:</b>	2
<b>Client No.:</b>	2A				
<u>% Asbestos</u>	<u>Type</u>	<u>% Non-Asbestos Fibrous Material</u>	<u>Type</u>	<u>% Non-Fibrous Material</u>	
None Detected	None Detected	None Detected	None Detected	100	

**Accreditation**      **NIST-NVLAP No. 101165-0**      **NY-DOH No. 11021**      **AIHA-LAP, LLC No. 100188**

*This confidential report relates only to those item(s) tested and does not represent an endorsement by NIST-NVLAP, AIHA or any agency of the U.S. government  
 This report shall not be reproduced except in full, without written approval of the laboratory.*

**Analytical Method:**      EPA 600/R-93/116, by Polarized Light Microscopy

**Comments:**      Quantification at <0.25% by volume is possible with this method. (PC) Indicates Stratified Point Count Method performed. (PC-Trace) means that asbestos was detected but is not quantifiable under the Point Counting regimen. Analysis includes all distinct separable layers in accordance with EPA 600 Method. If not reported or otherwise noted, layer is either not present or the client has specifically requested that it not be analyzed (ex. analyze until positive instructions). Small asbestos fibers may be missed by PLM due to resolution limitations of the optical microscope. Therefore, PLM is not consistently reliable in detecting asbestos in non-friable organically bound (NOB) materials. Quantitative transmission electron microscopy (TEM) is currently the only method that can pronounce materials as non-asbestos containing.

**Analysis Performed By:**                R. Kennedy          

**Date:**                6/19/2012



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	Columbia SC 29210	<b>Project:</b>	Council on Aging
		<b>Project No.:</b>	

## BULK SAMPLE ANALYSIS SUMMARY

<b>Lab No.:</b>	4690583	<b>Description / Location:</b>	Brown Cove Base	
<b>Client No.:</b>	2B			
<u>% Asbestos</u>	<u>Type</u>	<u>% Non-Asbestos Fibrous Material</u>	<u>Type</u>	<u>% Non-Fibrous Material</u>
None Detected	None Detected	None Detected	None Detected	100

<b>Lab No.:</b>	4690583	<b>Description / Location:</b>	Brown Mastic	<b>Layer No.:</b> 2
<b>Client No.:</b>	2B			
<u>% Asbestos</u>	<u>Type</u>	<u>% Non-Asbestos Fibrous Material</u>	<u>Type</u>	<u>% Non-Fibrous Material</u>
None Detected	None Detected	None Detected	None Detected	100

<b>Lab No.:</b>	4690584	<b>Description / Location:</b>	Brown Cove Base	
<b>Client No.:</b>	2C			
<u>% Asbestos</u>	<u>Type</u>	<u>% Non-Asbestos Fibrous Material</u>	<u>Type</u>	<u>% Non-Fibrous Material</u>
None Detected	None Detected	None Detected	None Detected	100

<b>Lab No.:</b>	4690584	<b>Description / Location:</b>	Brown Mastic	<b>Layer No.:</b> 2
<b>Client No.:</b>	2C			
<u>% Asbestos</u>	<u>Type</u>	<u>% Non-Asbestos Fibrous Material</u>	<u>Type</u>	<u>% Non-Fibrous Material</u>
None Detected	None Detected	None Detected	None Detected	100

**Accreditation**      **NIST-NVLAP No. 101165-0**      **NY-DOH No. 11021**      **AIHA-LAP, LLC No. 100188**

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**Comments:** Quantification at <0.25% by volume is possible with this method. (PC) Indicates Stratified Point Count Method performed. (PC-Trace) means that asbestos was detected but is not quantifiable under the Point Counting regimen. Analysis includes all distinct separable layers in accordance with EPA 600 Method. If not reported or otherwise noted, layer is either not present or the client has specifically requested that it not be analyzed (ex. analyze until positive instructions). Small asbestos fibers may be missed by PLM due to resolution limitations of the optical microscope. Therefore, PLM is not consistently reliable in detecting asbestos in non-friable organically bound (NOB) materials. Quantitative transmission electron microscopy (TEM) is currently the only method that can pronounce materials as non-asbestos containing.

**Analysis Performed By:**           R. Kennedy          

**Date:**           6/19/2012



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# CERTIFICATE OF ANALYSIS

<b>Client:</b>	Compliance Centre	<b>Report Date:</b>	6/21/2012
	920 St. Andrews Rd.	<b>Report No.:</b>	277223
	Columbia SC 29210	<b>Project:</b>	Council on Aging
		<b>Project No.:</b>	

## TEM BULK SAMPLE ANALYSIS SUMMARY

**IATL No.:** 124690579A      **Description / Location:** Grey Cove Base

**Client No.:** 1A

<b>Organic Fraction:</b>	99.9 %	
<b>Gravimetrically Reduced Subsample:</b>	0.100 %	
<b>Percent Asbestos Detected:</b>	ND	None Detected
<b>Percent Non-Asbestos Fibrous Material:</b>	Trace	SiAl, Other Fiber
<b>Percent Non-Fibrous Material:</b>	0.100 %	Other

**Comments:**

**NIST-NVLAP No. 101165-0**

**AIHA-LAP, LLC No. 100188**

**NYS-DOH No. 11021**

**Methodology:** Transmission Electron Microscopy (TEM) In Accordance With :  
 ELAP 198.4 "Method For Identifying And Quantitating Asbestos In Non-Friable Organically Bound Bulk Samples", Revised 1/11/2005. EPA-600/R-93/116 Section 2.5 "Asbestos In Bulk Building Materials By TEM Gravimetry."

*IATL assumes that all sampling methods and data upon which these results are based have been accurately supplied by the client.  
 The "Gravimetrically Reduced Subsample" is the portion of the submitted sample remaining following the ashing and acid treatment processes. TEM analysis occurs on this portion of the sample. Final results are calculated to represent the sample as submitted.  
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**Analysis Performed By:** C. Liska

**Approved By:**

**Date:** 6/21/2012

Frank E. Ehrenfeld, III  
 Laboratory Director



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# CERTIFICATE OF ANALYSIS

<b>Client:</b> Compliance Centre 920 St. Andrews Rd. Columbia SC 29210	<b>Report Date:</b> 6/21/2012 <b>Report No.:</b> 277223 <b>Project:</b> Council on Aging <b>Project No.:</b>
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## TEM BULK SAMPLE ANALYSIS SUMMARY

**IATL No.:** 124690579B      **Description / Location:** Tan/White Mastic/Lvl Compnd

**Client No.:** 1A

<b>Organic Fraction:</b>	90.1 %	
<b>Gravimetrically Reduced Subsample:</b>	9.90 %	
<b>Percent Asbestos Detected:</b>	ND	None Detected
<b>Percent Non-Asbestos Fibrous Material:</b>	Trace	SiAl, Other Fiber
<b>Percent Non-Fibrous Material:</b>	9.90 %	Other

**Comments:** Note: Insufficient material (<100mg) to verify results.

**NIST-NVLAP No. 101165-0**

**AIHA-LAP, LLC No. 100188**

**NYS-DOH No. 11021**

**Methodology:** Transmission Electron Microscopy (TEM) In Accordance With :  
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**Analysis Performed By:** C. Liska

**Date:** 6/21/2012



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	Columbia SC 29210	<b>Project:</b>	Council on Aging
		<b>Project No.:</b>	

## TEM BULK SAMPLE ANALYSIS SUMMARY

**IATL No.:** 124690582A      **Description / Location:** Brown Cove Base

**Client No.:** 2A

<b>Organic Fraction:</b>	98.7 %	
<b>Gravimetrically Reduced Subsample:</b>	1.30 %	
<b>Percent Asbestos Detected:</b>	ND	None Detected
<b>Percent Non-Asbestos Fibrous Material:</b>	ND	None Detected
<b>Percent Non-Fibrous Material:</b>	1.30 %	Other

**Comments:**

**NIST-NVLAP No. 101165-0**

**AIHA-LAP, LLC No. 100188**

**NYS-DOH No. 11021**

**Methodology:** Transmission Electron Microscopy (TEM) In Accordance With :  
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**Analysis Performed By:** C. Liska

**Date:** 6/21/2012





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		<b>Project No.:</b>	

## TEM BULK SAMPLE ANALYSIS SUMMARY

**IATL No.:** 124690582B      **Description / Location:** Brown Mastic

**Client No.:** 2A

<b>Organic Fraction:</b>	68.0 %	
<b>Gravimetrically Reduced Subsample:</b>	32.0 %	
<b>Percent Asbestos Detected:</b>	ND	None Detected
<b>Percent Non-Asbestos Fibrous Material:</b>	Trace	SiAl, Other Fiber
<b>Percent Non-Fibrous Material:</b>	32.0 %	Other

**Comments:** Note: Insufficient material (<100mg) to verify results.

**NIST-NVLAP No. 101165-0**

**AIHA-LAP, LLC No. 100188**

**NYS-DOH No. 11021**

**Methodology:** Transmission Electron Microscopy (TEM) In Accordance With :  
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**Date:** 6/21/2012