



Addendum No. 6

**ITB No. 16-21
REMOVE, DISPOSE, AND REPLACE WINDOWS AND TRIM AT
THE ROCKDALE COUNTY COURTHOUSE**

July 18, 2016

ITB #16-21 is hereby amended as follows:

1. Asbestos and lead based paint test results are attached to this Addendum No. 6. Asbestos and lead paint have been found in the tested windows. Please review the reports. All bidders must include asbestos and lead paint abatement in their bid price for **all** windows. **New deadline for questions is Thursday, July 21, 2016 at 2:00 p.m.**
2. All abatement contractors must be licensed accordingly by state/federal laws and guidelines.
3. Bidder must provide a copy of its General Contractor's License with bid. This license must be current, valid, and issued in compliance with applicable laws.
4. In light of the new test results, the Bid Form has been revised again. Discard the Bid Form attached to Addendum No. 3 and replace it with the revised Bid Form attached to this Addendum No. 6.
5. All other conditions remain in full force and effect.
6. If a proposal has been submitted and anything in this Addendum causes the bidder to change the item offered or to increase or decrease the proposal price, the new price and/or changes will be inserted below:

7. All bidders under this Invitation to Bid are kindly requested to acknowledge receipt of this Addendum on Page 12, Part II of the Bid Form.

Tina Malone

Tina Malone, CPPB CPPO
Procurement Officer
Department of Finance, Purchasing Division

**Report of Limited Suspect Asbestos Building Materials Survey
Window Pane Glazing & Frame Caulking**

**Rockdale County Courthouse
922 Court St NE
Conyers, GA 30012**

**Prepared By
Environmental Associates, Inc.
270 Hollyridge Drive
Roswell GA 30076**

**Prepared For
Andrew Morton
Capital Projects Manager
Rockdale County Recreation and Maintenance**

**Issue Date
July 14, 2016**

INTRODUCTION

Environmental Associates, Inc. (EAI) has completed the limited survey of suspect asbestos containing window pane glazing & caulking materials on the windows of the **Rockdale County Courthouse, located at 922 Court St NE Conyers, GA 30012 (subject site)**.

This initial field work was carried out on July 11, 2016. The field work and sampling activities were completed by Mr. Jeff Giles, Senior Industrial Hygienist, accredited asbestos in building inspector.

Our field work was limited to the collection of suspect window pane glazing & caulking materials from the courthouse windows.

The Georgia Environmental Protection Division (GEPD) considers all building materials with asbestos content in excess of 1% to be Regulated Asbestos Containing Material (RACM). All RACM potentially impacted by demolition or renovation should be removed and disposed by a licensed asbestos abatement contractor. Furthermore, all removed RACM should be disposed in a landfill permitted to accept asbestos containing materials.

GENERAL LIMITATIONS

The suspect ACM survey was conducted using standard engineering and scientific judgment, principles, and practices. The survey is based on the observations recorded by the auditor during the site survey. The survey is a partially invasive assessment limiting damage to the site structure and working systems. Findings, therefore, are limited to those items that could be directly observed.

Please note that this document is not a specification for asbestos removal. It does not contain means and methods for abatement. Contractors or bid specification contractor must determine asbestos amount prior to abatement bidding or ACM removal.

Visually identified suspect materials were sampled to represent conditions of accessible building space. There remains a possibility that ACMs are present that were undetected or inaccessible during the site visit.

There may be additional suspect materials enclosed or concealed in locations inaccessible at the time of the survey. Precautions should be taken during any demolition or renovation activity to identify building materials, which may be disturbed or uncovered to avoid an asbestos exposure hazard.

METHODOLOGY

A total of fifteen (15) samples of suspect asbestos containing window pane glazing & caulking materials were collected from accessible windows at the subject site. In addition, samples of suspect asbestos containing roofing cement materials were collected from the 3rd floor West windows.

The suspect building material samples were submitted to **Analytical Environmental Services, Inc.** The samples were analyzed using Polarized Light Microscopy (PLM) coupled with Dispersion Staining as detailed in the United States Environmental Protection Agency's (EPA) "Interim Method for the Determination of Asbestos in Material Insulation Samples" (EPA-600/R-93/116 Method).

SUMMARY OF ASBESTOS CONTAINING MATERIALS

Asbestos-Cont. Material	Location	% Asbestos
Window Pane Glazing	<i>Exterior Windows Pane Glazing</i>	2 % Chrysotile
Window Frame Caulking	<i>Exterior Windows Frame Caulking</i>	3 % Chrysotile
Roofing Cement Materials	<i>Applied to the Exterior Window Stool & Apron 3rd Floor West Windows</i>	10 % Chrysotile

The building inspection and sample collection was performed by Mr. Jeff Giles as a representative of EAI. Mr. Giles has successfully completed the course and examination requirements for EPA-Model Accreditation in asbestos building inspection Certification Number 166579. Although EAI performed a detailed investigation of the building, there may be additional suspect materials enclosed or concealed in locations inaccessible at the time of the survey. Care should be taken during any demolition or renovation activity to identify building materials, which may be disturbed or uncovered.

The EPA's National Emission Standard for Hazardous Air Pollutants (NESHAP) regulations (40 CFR 61 (M)) require that regulated asbestos-containing materials (RACM) be properly removed prior to any demolition or renovation activity, which may disturb them. The EPA NESHAP regulations define RACM as "(a) Friable ACM, (b) Category I non-friable ACM that has become friable, (c) Category I non-friable ACM that will be or has been subject to sanding, grinding, cutting or abrading, or (d) Category II non-friable ACM that has a high probability of becoming, or has become, crumbled, pulverized, or reduced to powder by the forces expected to act on the material in the course of demolition or renovation operations."

Materials that contain less than one (1) percent asbestos are not currently subject to EPA regulations. However, it should be noted that the disturbance of these materials might be subject to regulations issued by the U.S. Occupational Safety and Health Administration (OSHA). Such a disturbance may elevate the concentration of airborne fibers above the permissible exposure limit (PEL) of 0.1 fibers per cubic centimeter (f/cc) of air, measured as an eight-hour time weighted average (TWA), or the 30-minute short term excursion limit (STEL) of 1.0 f/cc. Recent revisions to the OSHA regulations require that all surfacing materials, thermal system insulation materials, and resilient flooring installed "no later than 1980" be considered as presumed asbestos-containing materials (PACM) and treated accordingly.

Furthermore, OSHA has implemented the final rule for occupational exposure to asbestos to include regular building maintenance operations and custodial activities, which may disturb identified asbestos-containing materials or presumed asbestos-containing materials. In order to rebut the designation of installed materials as PACM, OSHA requires the sampling of suspect material be performed in accordance with 40 CFR 763 (E) issued by the EPA under the Asbestos Hazard Emergency Response Act of 1986 (AHERA). The AHERA regulations establish asbestos identification and management requirements for schools, grades K through 12. The recent OSHA revisions also include specific notification and engineering control procedures.

- ***Asbestos abatement activities must be performed in accordance with GA EPD, EPA, and OSHA regulations.***

A complete copy of all sample information and analysis results has been included for your reference. Please do not hesitate to contact us at 770 891 0484 if you have any questions or concerns regarding this matter.

Respectfully,



Jeff Giles
Senior Industrial Hygienist

LABORATORY DATA



ANALYTICAL ENVIRONMENTAL SERVICES, INC.
Bulk Sample Summary Report



Lab Code 102082-0
13-Jul-16

Client Name: **Giles Consulting Services** AES Job Number: **1607792**
Project Name: Project Number: **R.C COURTHOUSE**

Client ID	AES ID	Location	Asbestos Mineral Percentage						Comments
			CH	AM	CR	AN	TR	AC	
12 Layer: 2	1607792-012A	Caulking 1 Front L.	3	ND	ND	ND	ND	ND	Paint included as binder
13 Layer: 1	1607792-013A	Caulking 1 East	ND	ND	ND	ND	ND	ND	Paint included as binder
13 Layer: 2	1607792-013A	Caulking 1 East	3	ND	ND	ND	ND	ND	
14 Layer: 1	1607792-014A	Caulking 1 East	ND	ND	ND	ND	ND	ND	Paint included as binder
14 Layer: 2	1607792-014A	Caulking 1 East	3	ND	ND	ND	ND	ND	
15 Layer: 1	1607792-015A	Caulking Pit West	ND	ND	ND	ND	ND	ND	Paint included as binder

Note: CH=chrysotile, AM=amosite, CR=crocidolite, AC=actinolite, TR=tremolite, AN=anthophyllite
For comments on the samples, see the individual analysis sheets.
ND = None Detected

AES, Inc. is accredited by NIST's National Voluntary Laboratory Accreditation Program (NVLAP) for Polarized Light Microscopy (PLM) analysis, Lab Code 102082-0. All analyses performed in accordance with EPA "Interim Method for the Determination of Asbestos in Bulk Insulation Samples" (EPA 600/M4-82-020), 1982 as found in 40 CFR, Part 763, Appendix E to Subpart E and "Method for the Determination of Asbestos in Bulk Building Materials" (EPA/600/R-93/116), 1993.
These test results apply only to those samples actually tested, as submitted by the client. All percentages are reported by visually estimated volume.
PLM is not consistently reliable in detecting small concentrations of asbestos in floor tiles and similar nonfriable materials, quantitative TEM is currently the only method that can be used to determine conclusive asbestos content.
This report must not be reproduced except in full without written approval of Analytical Environmental Services, Inc.

Microanalyst:

Penka Topuzova

QC Analyst:

Yelena Khanina



ANALYTICAL ENVIRONMENTAL SERVICES, INC.
Bulk Sample Summary Report



Lab Code 102082-0

13-Jul-16

Client Name: Giles Consulting Services	AES Job Number: 1607792
Project Name:	Project Number: R.C COURTHOUSE

Client ID	AES ID	Location	Asbestos Mineral Percentage						Comments
			CH	AM	CR	AN	TR	AC	
09 Layer: 2	1607792-009A	Roofing Cement 3 West	ND	ND	ND	ND	ND	ND	
10 Layer: 1	1607792-010A	Caulking 3 West	ND	ND	ND	ND	ND	ND	Paint included as binder
10 Layer: 2	1607792-010A	Caulking 3 West	3	ND	ND	ND	ND	ND	
11 Layer: 1	1607792-011A	Caulking 1 Front R	ND	ND	ND	ND	ND	ND	Paint included as binder
11 Layer: 2	1607792-011A	Caulking 1 Front R	3	ND	ND	ND	ND	ND	
12 Layer: 1	1607792-012A	Caulking 1 Front L	ND	ND	ND	ND	ND	ND	Paint included as binder

Note: CH=chrysotile, AM=amosite, CR=crocidolite, AC=actinolite, TR=tremolite, AN=anthophyllite

For comments on the samples, see the individual analysis sheets.

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Bulk Sample Summary Report

NVLAP
 Lab Code 102082-0
 13-Jul-16

Client Name: **Giles Consulting Services** AES Job Number: **1607792**
 Project Name: Project Number: **R.C COURTHOUSE**

Client ID	AES ID	Location	Asbestos Mineral Percentage						Comments
			CH	AM	CR	AN	TR	AC	
06 Layer: 1	1607792-006A	Glazing 1 Front East	2	ND	ND	ND	ND	ND	Paint included as binder
06 Layer: 2	1607792-006A	Glazing 1 Front East	ND	ND	ND	ND	ND	ND	Paint included as binder
07 Layer: 1	1607792-007A	Glazing Pit West	ND	ND	ND	ND	ND	ND	Paint included as binder
08 Layer: 1	1607792-008A	Glazing 1 East (HVAC)	ND	ND	ND	ND	ND	ND	Paint included as binder
08 Layer: 2	1607792-008A	Glazing 1 East (HVAC)	ND	ND	ND	ND	ND	ND	Paint included as binder
09 Layer: 1	1607792-009A	Roofing Cement 3 West	10	ND	ND	ND	ND	ND	

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Bulk Sample Summary Report

NVLAP
Lab Code 102082-0
13-Jul-16

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Project Name: Project Number: **R.C COURTHOUSE**

Client ID	AES ID	Location	Asbestos Mineral Percentage						Comments
			CH	AM	CR	AN	TR	AC	
01 Layer: 1	1607792-001A	Glazing 3 West	2	ND	ND	ND	ND	ND	
02 Layer: 1	1607792-002A	Glazing 3 West	ND	ND	ND	ND	ND	ND	Paint included as binder
03 Layer: 1	1607792-003A	Glazing 3 West	ND	ND	ND	ND	ND	ND	Paint included as binder
03 Layer: 2	1607792-003A	Glazing 3 West	2	ND	ND	ND	ND	ND	
04 Layer: 1	1607792-004A	Glazing 1 Front R	ND	ND	ND	ND	ND	ND	Paint included as binder
05 Layer: 1	1607792-005A	Glazing 1 Front L	ND	ND	ND	ND	ND	ND	Paint included as binder

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ND - None Detected

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Lab Code 102082-0

13-Jul-16

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Project Name:		Project Number: R.C COURTHOUSE							
Client ID	AES ID	Location	Asbestos Mineral Percentage						Comments
			CH	AM	CR	AN	TR	AC	
15 Layer: 2	1607792-015A	Caulking Pit West	ND	ND	ND	ND	ND	ND	Paint included as binder

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Microanalyst:

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QC Analyst:

Yelena Khanina

1607792

ANALYTICAL ENVIRONMENTAL SERVICES, INC.

3080 Presidential Drive, Atlanta, GA 30340-3704
 (770) 457-8177 / Toll Free (800) 972-4889 / Fax (770) 457-8188

CHAIN OF CUSTODY
 BULK ASBESTOS ANALYSIS

Client Name: Giles Consulting Phone: ()
 Address: 8405 Buckhorn Fax: ()
 City, State, Zip: Sandy Springs GA 30350 Project Name: _____
 Contact: _____ Project Number: R.C. Courthouse
 Sampler's Name: _____ Sampling Date: 7-11-16

Sample ID	Sample Location/Description	Analysis Requested	Turnaround Time	Comments	For AES Use Only
1 01	Blazing	3 WEST		PLAN	
2 02		3 WEST		NEXT	
3 03		3 WEST		DAY	
4 04		1 Front R			
5 05		1 Front L			
6 06		1 Front EAST			
7 07		PIT WEST			
8 08		1 EAST (HVAC)			
9 09	ROOFING CEMENT	3 WEST			
10 10	CAULKING	3 WEST			
11 11		1 Front R			
12 12		1 Front L			
13 13		1 EAST			
14 14		1 EAST			
15 15		PIT WEST			
16					
17					
18					
19					
20					

Relinquished by: [Signature] Date/Time: 7-11-16
 Received by: _____ Date/Time: _____
 Relinquished by: _____ Date/Time: _____
 Received by: _____ Date/Time: _____

FOR LAB USE ONLY
 Lab Recipient: Jessica Kelly Date/Time: 7/11/16 1:39 pm Method of Shipment: Client

**ASBESTOS IN BUILDINGS INSPECTOR
CERTIFICATE**

Asbestos Consulting & Training Systems

40869.4395CERT/BIR

900 N.W. 5TH Avenue, Fort Lauderdale, Florida 33311 (954) 524-7208

This is to Certify that
Jeffrey T. Giles



X X X - X X - 7 9 8 1

8905 Buckhorn, Atlanta, GA 30350

Processed By:

Seagull
To Authenticate Certificate
www.seagulltraining.com
1-800-966-9933

has successfully completed an English
Asbestos Building Inspection Refresher

23-Nov-15 TO 23-Nov-15

Meets state requirements of FL49-0001020/CN-0006273 and UT (6.0 core).

NDAAC Provider #451

Trainer(s): Jim Stump

Training Address: 5891 New Peachtree RD-122, Atlanta, GA, 30340

Successful course completion based on exam score on: 11/23/15

This Certificate Expires:



22-Nov-16

1 1 / 2 2 / 1 6

UNDER CIVIL AND CRIMINAL PENALTIES OF LAW FOR MAKING OR
SUBMISSION OF FALSE OR FRAUDULENT STATEMENTS OR
REPRESENTATIONS (18 U.S.C. 1001 AND 15 U.S.C. 2813), I CERTIFY
THAT THIS TRAINING COMPLIES WITH ALL APPLICABLE
REQUIREMENTS OF TITLE IV OF THE TOXIC SUBSTANCE CONTROL
ACT (TSCA) PART 745 OR WITH ANY OTHER APPLICABLE
FEDERAL, STATE, OR LOCAL REQUIREMENTS.

James F. Stump, Course Sponsor

Certificate Number: 1 6 6 5 7 9

Course Number: GE1548



July 15, 2016

Giles Consulting
Jeff Giles
Senior Industrial Hygienist

Re: Report of Limited Lead-Based Paint Testing
Rockdale Courthouse
922 Main Street
Conyers, Georgia

Dear Mr. Giles;

Southeast Lead Consultants, Inc (SLC) has completed Limited Lead-Based Paint Testing at the Rockdale Courthouse (hereinafter referred to as the Project Site) located at 922 Main Street in Conyers, Georgia. Our lead testing program of the Project Site was performed in substantial accordance with the Georgia Environmental Protection Division (EPD) Lead-Based Paint Program.

We appreciate the opportunity to work for you on this project. Please contact our offices if you have any questions or need further assistance.

Sincerely,

Southeast Lead Consultants, Inc.

A handwritten signature in black ink, appearing to read "Jeremy Weir".

Mr. Jeremy Weir
Senior Environmental Specialist/
President

Project Description

SLC was authorized by Mr. Giles, to perform limited lead-based paint testing of window components on the exterior and interior of the Project Site. Our visual evaluation and lead testing program were performed in substantial accordance with the applicable protocols for Lead-Based Paint Inspection. Testing was completed on July 11, 2016

Scope of Work

SLC's scope of work included, identification and testing of representative painted surfaces on the exterior and interior window sashes, window casings and window sills to determine the possible presence of lead-based paint films. The inspection was limited to accessible components identified by Mr. Andrew Morton, the Capital Projects Manager for Rockdale County. Representative, accessible painted or coated building components that exhibited possible lead-based paint were tested utilizing XRF analysis. Our Scope of Work is more fully described below:

- SLC coordinated a visit to the Project Site with Mr. Giles. An SLC lead inspector, certified and licensed by the Georgia Environmental Protection Division's (EPD) Asbestos and Lead-Based Paint program performed the sampling and report preparation activities.
- SLC lead inspector visually evaluated representative exterior column and window surfaces and an interior wall components for suspect lead-based paint films. Testing of suspect surfaces and components was performed using an Innov-X Alpha I-3000 X-Ray fluorescence (XRF) lead paint analyzer, serial # 11798.
- At the completion of the field activities and testing, SLC reviewed the XRF results and identified the surfaces or components where detectable concentrations of lead were identified, if any, and prepared this report to introduce the findings.

Inspection and XRF Testing Program

Inspector

Mr. Jeremy Weir performed the sampling and testing program and operated the XRF. Mr. Weir holds EPA and state of Georgia EPD licensure as a Lead Inspector and Lead Risk Assessor, License number 50 CMB 0216 4982 and expires 1/13/2017. SELC is certified by the state of Georgia as a lead firm, license number 1203132504. In addition, Mr. Weir has been trained in the use, calibration and maintenance of X-Ray Fluorescence (XRF) equipment along with necessary training on the principles of radiation safety.

XRF Testing

If the inspection is longer than four hours, a set of three calibration readings must be taken before the four hours expires, and then an additional three calibration readings taken at the end of the inspection. If for any reason the instruments are not maintaining a consistent calibration reading within the manufacturer's standards for performance on the calibration block supplied by the manufacturer, manufacturer's recommendations are used to bring the instrument into calibration. If the instrument cannot be brought back into calibration, it is taken off the site and sent back to the manufacturer for repair and/or re-calibration.

Calibration of the Innov-X lead paint analyzer was performed in accordance with the Performance Characteristic Sheet (PCS) assigned to the instrument. XRF instruments are calibrated using a calibration standard block of a known lead content. Three calibration readings are obtained before and after each testing session to insure that the instruments is functioning in accordance with the manufacturer's standards. When an inspection requires greater than four hours for completion, an additional set of three calibration readings are taken before the end of the four-hour period. An additional three calibration readings are collected at the end of the actual inspection.

Should the instrument not maintain a consistent calibration reading within the manufacturer's specifications when calibrated using the calibration block, the manufacturer's recommendations are used to bring the instrument into calibration. In the event that the instrument cannot be brought back into calibration, the XRF is taken off-site and sent back to the manufacturer for repair and/or re-calibration.

XRF Results/Data Evaluation

SLC performed a total of forty-two (42) XRF assays of representative painted surfaces and performed six (6) instrument calibrations. Fifteen (15) of the XRF assays of the identified a lead concentration above the HUD regulatory limit of 1.0 mg/cm² lead by XRF, or within the Positive parameters of 0.6 mg/cm² - 1.1 mg/cm² as defined by the Performance Characteristics Sheet (PCS) for the Innov-X instrument. Results of XRF assays and specific information related to each XRF assay are attached. Identified positive components;

- Interior and exterior window sashes, window casings and window sills

Photographic Documentation



Limitations

Southeast Lead Consultants, Inc. has made a reasonable effort to perform confirmatory sampling and testing for lead-based paint in substantial conformance with the applicable HUD, EPA and Georgia EPD guidance documents and regulations for the performance of lead paint inspections and in accordance with the requested Scope of Work. Southeast Lead Consultants, Inc. report has been prepared on behalf Giles Consulting.

Southeast Lead Consultants, Inc.'s scope of services performed in the execution of the lead paint sampling and testing program described herein was not intended to be, and should not be inferred to be, a HUD-compliant lead-based paint inspection of the entire Project Site and may not be appropriate to satisfy the needs of other users.

In-accessible lead paint film(s) may exist in areas where further arrangements with the building owner for access, or partial or full demolition is warranted. In the event that previously in-accessible suspect lead paint film(s) are encountered during subsequent demolition, renovation or painting activities, additional sampling should be performed. Results of any subsequent evaluations that further identify previously in-accessible lead paint should be included in a revised report.

Southeast Lead Consultants, Inc. Report herein shall not be reproduced, except in full, or used by others as a template for lead paint inspection reports, without written consent from Southeast Lead Consultants, Inc.. Reliance upon this report by persons other than those named herein will require an update to the report. Lead concentrations will vary between sample locations, between substrates, and between lead paint analyzers. No warranty is expressed or implied.

Southeast Lead Consultants, Inc.

XRF

Date	Reading	Room	Side	Description	Component	Substrate	Color	Condition	Pb	Pb +/-	Pass Fail Standard
11-Jul-16		1 Calibrate							0.98	0.06	Positive
11-Jul-16		2 Calibrate							1.01	0.05	Positive
11-Jul-16		3 Calibrate							1	0.05	Positive
11-Jul-16		4 juvenile office	A		Window	Wood	White	Poor	0.52	0.16	Negative
11-Jul-16		5 juvenile office	A	retest	Window	Wood	White	Poor	0.44	0.13	Negative
11-Jul-16		6 juvenile office	A		Window Stool	Wood	Grey	Poor	2.28	0.63	Positive
11-Jul-16		7 juvenile office	A		Window Casing	Wood	Grey	Poor	1.77	0.39	Positive
11-Jul-16		8 juvenile office	A		Window	Wood	Grey	Poor	1.05	0.11	Positive
11-Jul-16		9 juvenile office	A		Window	Wood	Grey	Poor	0.85	0.09	Positive
11-Jul-16		10 juvenile office	A		Window Stool	Wood	Grey	Poor	0.21	0.14	Negative
11-Jul-16		11 juvenile office	A		Window Casing	Wood	Grey	Poor	1.98	0.48	Positive
11-Jul-16		12 juvenile office - sharon sullivan	D		Window	Wood	Grey	Poor	1.63	0.3	Positive
11-Jul-16		13 juvenile office - sharon sullivan	A		Window Stool	Wood	White	Poor	2.6	0.8	Positive
11-Jul-16		14 juvenile office - sharon sullivan	A		Window Casing	Wood	White	Poor	3.19	0.92	Positive
11-Jul-16		15 210c	A		Window	Wood	White	Poor	0.99	0.09	Positive
11-Jul-16		16 210c	A		Window Stool	Wood	White	Poor	0.15	0.15	Negative
11-Jul-16		17 210c	A		Window Stool	Wood	White	Poor	0.06	0.06	Negative
11-Jul-16		18 210c	A	retest	Window Stool	Wood	White	Poor	0.23	0.1	Negative
11-Jul-16		19 210c	A		Window Casing	Wood	White	Poor	0.04	0.02	Negative
11-Jul-16		20 210c	A		Window Casing	Wood	White	Poor	0.15	0.05	Negative
11-Jul-16		21 210c	A		Window Casing	Wood	White	Poor	0.23	0.1	Negative
11-Jul-16		22 law library	A		Window	Wood	White	Poor	0.67	0.16	Positive
11-Jul-16		23 law library	A		Window Stool	Wood	White	Poor	0	0	Negative
11-Jul-16		24 law library	A		Window Casing	Wood	White	Poor	0.18	0.21	Negative
11-Jul-16		25 law library	C		Window Stool	Wood	White	Poor	0.01	0.02	Negative
11-Jul-16		26 law library	C		Window Stool	Wood	White	Poor	0	0	Negative
11-Jul-16		27 law library	C		Window Casing	Wood	White	Poor	0.05	0.03	Negative
11-Jul-16		28 law library	C		Window Stool	Wood	White	Poor	0	0	Negative
11-Jul-16		29 exterior	A		Window	Wood	White	Poor	0.17	0.07	Negative
11-Jul-16		30 exterior	A		Window	Wood	White	Poor	0.2	0.08	Negative
11-Jul-16		31 exterior	A		Window Stool	Wood	White	Poor	0.34	0.21	Negative
11-Jul-16		32 exterior	D		Window	Wood	White	Poor	0.66	0.16	Positive
11-Jul-16		33 exterior	D		Window Casing	Wood	White	Poor	0.29	0.07	Negative
11-Jul-16		34 exterior	D		Window Casing	Wood	White	Poor	0.16	0.06	Negative
11-Jul-16		35 exterior	D		Window	Wood	White	Poor	0.18	0.05	Negative
11-Jul-16		36 exterior	D		Window	Wood	White	Poor	0.06	0.04	Negative
11-Jul-16		37 exterior	D		Window Stool	Wood	White	Poor	0	0	Negative
11-Jul-16		38 exterior	D		Window	Wood	White	Poor	0.1	0.06	Negative
11-Jul-16		39 exterior	D		Window	Wood	White	Poor	1.45	0.21	Positive
11-Jul-16		40 exterior	D		Window Casing	Wood	White	Poor	0.12	0.05	Negative
11-Jul-16		41 exterior	D		Window	Wood	White	Poor	0.1	0.05	Negative
11-Jul-16		42 exterior	D		Window	Wood	White	Poor	0	0	Negative
11-Jul-16		43 exterior	C		Window	Wood	White	Poor	2.15	0.27	Positive
11-Jul-16		44 exterior	C		Window Casing	Wood	White	Poor	2.51	0.33	Positive
11-Jul-16		45 exterior	C		Window Stool	Wood	White	Poor	0.6	0.12	Positive
11-Jul-16		46 Calibrate							1.04	0.05	Positive
11-Jul-16		47 Calibrate							1.01	0.05	Positive
11-Jul-16		48 Calibrate							1.04	0.04	Positive

PERFORMANCE CHARACTERISTIC SHEET

Performance Characteristic Sheet

EFFECTIVE DATE: December 1, 2006

EDITION NO.: 1

MANUFACTURER AND MODEL:

Make: *Innov-X Systems, Inc.*
 Models: *LBP4000 with software version 1.4 and higher*
 Source: *X-ray tube*

FIELD OPERATION GUIDANCE

OPERATING PARAMETERS:

Inspection mode, variable reading time.

XRF CALIBRATION CHECK LIMITS:

1.0 to 1.1 mg/cm² (inclusive)

SUBSTRATE CORRECTION:

Not applicable

INCONCLUSIVE RANGE OR THRESHOLD:

INSPECTION MODE READING DESCRIPTION	SUBSTRATE	INCONCLUSIVE RANGE (mg/cm ²)
Results not corrected for substrate bias on any substrate	Brick	0.6 to 1.1
	Concrete	0.6 to 1.1
	Drywall	0.6 to 1.1
	Metal	0.6 to 1.1
	Plaster	0.6 to 1.1
	Wood	0.6 to 1.1

BACKGROUND INFORMATION

EVALUATION DATA SOURCE AND DATE:

This sheet is supplemental information to be used in conjunction with Chapter 7 of the HUD *Guidelines for the Evaluation and Control of Lead-Based Paint Hazards in Housing* ("HUD Guidelines"). Performance parameters shown on this sheet are calculated from the EPA/HUD evaluation using archived building components. Testing was conducted on 146 test locations, with two separate instruments, in December 2005.

OPERATING PARAMETERS:

Performance parameters shown in this sheet are applicable only when properly operating the instrument using the manufacturer's instructions and procedures described in Chapter 7 of the HUD Guidelines.

XRF CALIBRATION CHECK:

The calibration of the XRF instrument should be checked using the paint film nearest 1.0 mg/cm² in the NIST Standard Reference Material (SRM) used (e.g., for NIST SRM 2579, use the 1.02 mg/cm² film).

If the average (rounded to 1 decimal place) of three readings is outside the acceptable calibration check range, follow the manufacturer's instructions to bring the instrument into control before XRF testing proceeds.

SUBSTRATE CORRECTION VALUE COMPUTATION:

Chapter 7 of the HUD Guidelines provides guidance on correcting XRF results for substrate bias. Supplemental guidance for using the paint film nearest 1.0 mg/cm² for substrate correction is provided:

XRF results are corrected for substrate bias by subtracting from each XRF result a correction value determined separately in each house for single-family housing or in each development for multifamily housing, for each substrate. The correction value is an average of XRF readings taken over the NIST SRM paint film nearest to 1.0 mg/cm² at test locations that have been scraped bare of their paint covering. Compute the correction values as follows:

Using the same XRF instrument, take three readings on a bare substrate area covered with the NIST SRM paint film nearest 1 mg/cm². Repeat this procedure by taking three more readings on a second bare substrate area of the same substrate covered with the NIST SRM.

Compute the correction value for each substrate type where XRF readings indicate substrate correction is needed by computing the average of all six readings as shown below.

For each substrate type (the 1.02 mg/cm² NIST SRM is shown in this example; use the actual lead loading of the NIST SRM used for substrate correction):

$$\text{Correction value} = (1\text{st} + 2\text{nd} + 3\text{rd} + 4\text{th} + 5\text{th} + 6\text{th Reading}) / 6 - 1.02 \text{ mg/cm}^2$$

Repeat this procedure for each substrate requiring substrate correction in the house or housing development.

EVALUATING THE QUALITY OF XRF TESTING:

Randomly select ten testing combinations for retesting from each house or from two randomly selected units in multifamily housing.

Conduct XRF re-testing at the ten testing combinations selected for retesting.

Determine if the XRF testing in the units or house passed or failed the test by applying the steps below.

Compute the Retest Tolerance Limit by the following steps:

Determine XRF results for the original and retest XRF readings. Do not correct the original or retest results for substrate bias. In single-family and multi-family housing, a result is defined as a single reading. Therefore, there will be ten original and ten retest XRF results for each house or for the two selected units.

Calculate the average of the original XRF result and the retest XRF result for each testing combination.

Square the average for each testing combination.

Add the ten squared averages together. Call this quantity C.

Multiply the number C by 0.0072. Call this quantity D.

Add the number 0.032 to D. Call this quantity E.

Take the square root of E. Call this quantity F.

Multiply F by 1.645. The result is the Retest Tolerance Limit.

Compute the average of all ten original XRF readings.

Compute the average of all ten re-test XRF readings.

Find the absolute difference of the two averages.

If the difference is less than the Retest Tolerance Limit, the inspection has passed the retest. If the difference of the overall averages equals or exceeds the Retest Tolerance Limit, this procedure should be repeated with ten new testing combinations. If the difference of the overall averages is equal to or greater than the Retest Tolerance Limit a second time, then the inspection should be considered deficient.

Use of this procedure is estimated to produce a spurious result approximately 1% of the time. That is, results of this procedure will call for further examination when no examination is warranted in approximately 1 out of 100 dwelling units tested.

TESTING TIMES:

For the variable-time inspection paint test mode, the instrument continues to read until it has determined whether the result is positive or negative (with respect to the 1.0 mg/cm² Federal standard), with 95% confidence. The following table provides testing time information for this testing mode.

Testing Times Using Variable Reading Time Inspection Mode (Seconds)						
Substrate	All Data			Median for laboratory-measured lead levels (mg/cm ²)		
	25 th Percentile	Median	75 th Percentile	Pb < 0.25	0.25 ≤ Pb < 1.0	1.0 ≤ Pb
Wood, Drywall	2.1	2.3	5.4	2.2	5.4	2.2
Metal	2.6	3.2	5.3	2.7	5.1	5.1
Brick, Concrete, Plaster	3.1	4.0	5.7	3.2	4.0	5.9

CLASSIFICATION OF RESULTS:

When an inconclusive range is specified on the *Performance Characteristic Sheet*, XRF results are classified as positive if they are greater than the upper boundary of the inconclusive range, negative if they are less than the lower boundary of the inconclusive range, or inconclusive if in between. The inconclusive range includes both its upper and lower bounds. If the instrument reads "> x mg/cm²", the value "x" should be used for classification purposes, ignoring the ">". For example, a reading reported as ">1.0 mg/cm²" is classified as 1.0 mg/cm², or inconclusive. When the inconclusive range reported in this PCS is used to classify the readings obtained in the EPA/HUD evaluation, the following False Positive, False Negative and Inconclusive rates are obtained:

- FALSE POSITIVE RATE: 2.5% (2/80)
- FALSE NEGATIVE RATE: 1.9% (4/212)
- INCONCLUSIVE RATE: 16.4% (48/212)

DOCUMENTATION:

A document titled *Methodology for XRF Performance Characteristic Sheets* provides an explanation of the statistical methodology used to construct the data in the sheets, and provides empirical results from using the recommended inconclusive ranges or thresholds for specific XRF instruments. For a copy of this document call the National Lead Information Center Clearinghouse at 1-800-424-LEAD.

This XRF Performance Characteristic Sheet was developed by the Midwest Research Institute (MRI) and QuanTech, Inc., under a contract between MRI and the XRF manufacturer. XRF Performance Characteristic Sheets were originally developed by the MRI under a grant from the U. S. Environmental Protection Agency and the U.S. Department of Housing and Urban Development. HUD has determined that the information provided here is acceptable when used as guidance in conjunction with Chapter 7, Lead-Based Paint Inspection, of HUD's *Guidelines for the Evaluation and Control of Lead-Based Paint Hazards in Housing*.

LICENSING

Georgia Environmental Protection Division

Lead-Based Paint and Asbestos Program

Certification, Accreditation, Licensing Unit

Judson H. Turner, Director
4244 International Parkway, Suite 104
Atlanta, Georgia 30354



Certification To Conduct Georgia Regulated Lead-Based Paint Activities

Discipline Certification Type Combined Inspector/Risk Assessor

Certification Number 50 CMB 0216 4982

Issued To: Jeremy Weir

Gender	Height	Weight	Date of Birth
Male	6 3	250	10/17/1976

Company

Southeast Lead Consultants Inc.

Address

5009 Sandyhook Ct. NW

City	State	Zip	Phone
Acworth	GA	30102	(770) 858-5323

Certification Issue Date	Certification Expiration Date	Last Date Of Training
2/15/2016	1/13/2017	1/13/2016

This certificate confers all authorities granted by Georgia EPD Rules 391-3-24 and allows the above named individual to serve as a(n)

Combined Inspector/Risk Assessor

This certificate must be in your possession while conducting activities regulated by Georgia Rules 391-3-24. This certification is only valid for the performance of Georgia regulated lead-based paint activities and when employed by a Georgia Certified Lead-Based Paint Firm. A renewal application must be submitted at least thirty (30) days prior to the expiration date shown, and a refresher training course must be taken before the last date of training.

Issue Date	Expiration Date
2/15/2016	1/13/2017
Georgia Lead Firm License Number	
50 CMB	0216 585

Jennifer Vogel, Program Manager
Lead-Based Paint and Asbestos Program
(404) 363-7026
Issued By: Aliosie Larkins



Georgia Environmental Protection Division

Lead-Based Paint Certified Firm License



Judson H. Turner, Director
4244 International Parkway, Suite 104
Atlanta, Georgia 30354

This Is To Certify That

Southeast Lead Consultants

Jeremy Weir

Owner/President

Having Satisfied the Requirements of The Georgia Lead Poisoning Prevention Act, O.C.G.A. 31-41-1, et seq and the Rules for Lead-Based Paint Hazard Management, Chapter 391-3-24, The Above Referenced Firm is Hereby Certified To Perform Lead-Based Paint Activities in the State of Georgia. This License May Be Subject to Revocation, Suspension, or Modification by the Director for Cause Including Evidence of Noncompliance or For Any Misrepresentation Made in the Application, Supporting Data or Subsequent Submittals Entered Therein or Attached Thereto, or Failed to Maintain Required Records. The Certification Holder Agrees to Use Only Georgia Certified Individuals When Conducting Georgia Regulated Lead-Based Paint Activities Granted By This License.

<i>Issue Date</i>	<i>Expiration Date</i>
2/15/2016	2/15/2017
<i>Georgia Lead Firm License Number</i>	
12 0313 2504	



*Jennifer Vogel, Program Manager
Lead-Based Paint and Asbestos Program
(404) 363-7026*

Issued By: Aljosie Larkins

BID FORM – ITB No. 16-21

Instructions: Complete all THREE parts of this bid form.

PART I: Bid Summary

Complete the information below. If you wish to submit more than one brand, make a photocopy of this Bid Form.

1.	Remove, Dispose, and Replace Windows and Trim for fifty-nine (59) windows including all labor, materials, and one (1) year warranty – LUMP SUM	\$
2.	Asbestos and Lead Paint Abatement – LUMP SUM	\$
LUMP SUM TOTAL		\$

PART II: Addenda Acknowledgements (if applicable)

Each vendor is responsible for determining that all addenda issued by the Rockdale County Finance Department – Purchasing Division have been received before submitting a bid.

Addenda	Date Vendor Received	Initials
"1"		
"2"		
"3"		
"4"		
"5"		
"6"		

PART III: Vendor Information:

Vendor Name	
Address	
Telephone	
E-Mail	
Representative (print name)	
Signature of Representative	
Date Submitted	