

September 4, 2012

Mr. Robby Anderson, P.E., City Engineer
City of Prattville
102 West Main Street
Prattville, AL 36067

Subject: Asbestos Survey
Former Gurney Apparel Building

Dear Mr. Anderson:

In accordance with EMC's proposal we have completed an asbestos survey of the Former Gurney Apparel Building in Prattville. This report presents the findings.

BACKGROUND INFORMATION

The former Gurney Apparel facility is located at 1030 Martin Luther King Drive in Prattville. The facility has been out of service for many years and the City of Prattville has now acquired the property from the Autauga County Commission. The City desires to demolish the building, but before that can occur an asbestos survey must be performed, so that asbestos materials can be handled properly.

ASBESTOS SURVEY

On August 15th my associates Marlinah McCall and Chris Gillis performed the fieldwork associated with the survey. Initially Ms. McCall toured the building, noting building materials that are considered suspect for asbestos. During that tour she recorded the general locations of nine building materials that are considered suspect to contain asbestos. Bulk samples for asbestos analysis were obtained in general accordance with EPA recommendations. The EPA's recommended procedures involve representative sample site selection within sampling areas. Two suspect materials, roofing cement and roof caulking, were not safely accessible, and could not be sampled. After sampling, the bulk samples were forwarded to EMSL Analytical, a NVLAP accredited laboratory, for analysis. Ms. McCall is an accredited asbestos inspector, Alabama Accreditation Number AIN0911260365. EMSL's NVLAP accreditation number is 101048-1.

The bulk samples were analyzed by polarized light microscopy (PLM) coupled with dispersion staining. This technique is used to identify asbestos fibers by their shape and unique optical properties. Traditional PLM provides only a visual estimation of the quantity of detected asbestos. Because a trace of asbestos was identified in the glazing putty samples, that material was also analyzed by PLM point counting to confirm that the quantity of asbestos in the glazing putty is not greater than one percent. The floor tile was not shown to contain asbestos by PLM, and was therefore also analyzed by transmission electron microscopy (TEM). TEM is a method of analysis that can identify the smaller milled asbestos fibers present in many floor tiles.

The analyses identified no asbestos-containing materials. The roofing cement and roof caulking however are assumed to contain asbestos. A summarization of the results is provided in a table included with this report. Specific data for each sample analysis is shown on the enclosed analysis sheets.

ASBESTOS COMMENTS

The roofing cement and roof caulking are classified by EPA's NESHAP regulations as category II non-friable asbestos-containing materials. Category II non-friable materials are only regulated under NESHAP if they become friable, or are likely to be made friable during the course of renovation or demolition activities. Traditional demolition is not likely to make the roofing cement or the roof caulking friable, and in Alabama these type materials are routinely demolished with the building. If the building will be burned the roofing cement and roof caulking will have to be removed before burning commences.

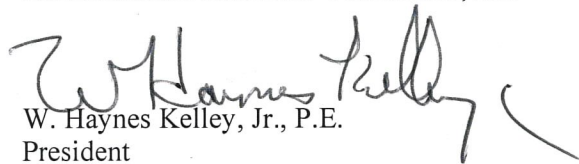
OSHA considers removal of the assumed asbestos materials, or demolition of buildings containing them, to be class II asbestos work. OSHA's requirements for class II work include establishment of regulated areas, supervision by a competent person, worker training, adherence to specified work practices and respiratory protection (or documentation that it is not required). The Alabama Department of Environmental Management (ADEM) has promulgated regulations addressing disposal of friable asbestos waste, and requires that all asbestos waste be disposed in a permitted facility.

LIMITATIONS

EMC's observations and sampling were limited to exposed materials within the building. EMC did not perform demolition of walls, ceilings, flooring materials or insulations to observe or sample underlying materials. Determination of whether a suspect material contains asbestos was generally based on analyses of the minimum number of samples allowed by the EPA's AHERA regulations. Because of variations in the composition of some materials, and our inability to visually identify those variations, it is possible that not all asbestos-containing materials were identified. This report has been prepared for the use of the City of Prattville. No other warranties are expressed or implied.

I appreciate the opportunity to provide these services. Please do not hesitate to contact me if you have questions about this report.

Sincerely,
Environmental-Materials Consultants, Inc.


W. Haynes Kelley, Jr., P.E.
President

enclosures

ASBESTOS SURVEY RESULTS **FORMER GURNEY APPAREL BUILDING** **PRATTVILLE, ALABAMA**

EMC Project No. MA-3243
August 2012

EMC HSA#	Material Description	General Location *	Asbestos
01	wallboard & joint compound	office area & restrooms	none detected
02	12"x12" floor tile: beige, and mastic	restrooms	** none detected
03	2'x2' ceiling tile: small gouges & pin holes	restrooms	none detected
04	2'x4' ceiling tile: small gouges & pin holes	office area	none detected
05	window glazing putty	exterior side of windows	*** <1% chrysotile
06	window caulk	exterior side of windows	none detected
07	flat roofing	roof	none detected
08	roofing cement	roof	assumed
09	roofing caulk	roof	assumed

Materials shown in bold contain asbestos

*General location information is provided to assist in identifying the material and may not

**Floor tile analyzed by PLM & TEM

***Analyzed by traditional PLM & point counting

**EMSL Analytical, Inc**

1800 Water Place, Suite 228, Atlanta, GA 30339

Phone/Fax: (770) 956-9150 / (770) 956-9181

<http://www.emsl.com>atlantalab@emsl.com

EMSL Order: 071204526

CustomerID: ENVI40

CustomerPO:

ProjectID:

Attn: **Marlinah McCall**
Environmental Materials Consultants
2027 Chestnut Street
Montgomery, AL 36106

Phone: (334) 265-4000
 Fax: (334) 265-4043
 Received: 08/16/12 9:00 AM
 Analysis Date: 8/17/2012
 Collected: 8/15/2012

Project: **Former Gurney Apparel Building/MA-3243**

Test Report: Asbestos Analysis of Bulk Materials via EPA 600/R-93/116 and/or EPA 600/M4-82-020 Method(s) using Polarized Light Microscopy

Sample	Description	Appearance	<u>Non-Asbestos</u>		<u>Asbestos</u>
			% Fibrous	% Non-Fibrous	% Type
3243-01-01 071204526-0001	Wallboard & Joint Compound	Various Fibrous Heterogeneous	15% Cellulose	85% Non-fibrous (other)	None Detected
This is a composite result of wallboard, jt. compound, and tape					
3243-01-02 071204526-0002	Wallboard & Joint Compound	Various Fibrous Heterogeneous	15% Cellulose	85% Non-fibrous (other)	None Detected
This is a composite result of wallboard, jt. compound, and tape					
3243-01-03 Composite 071204526-0003	Wallboard & Joint Compound	Various Fibrous Heterogeneous	15% Cellulose	85% Non-fibrous (other)	None Detected
This is a composite result of wallboard, jt. compound, and tape					
3243-02-01 071204526-0004	12"x12" Floor Tile: Beige	Various Non-Fibrous Heterogeneous	2% Cellulose	98% Non-fibrous (other)	None Detected
This is a composite result of both floor tile and mastic					
3243-02-02 Tile 071204526-0005	12"x12" Floor Tile: Beige	Various Non-Fibrous Homogeneous		100% Non-fibrous (other)	None Detected
3243-03-01 071204526-0006	2'x2' Ceiling Tile: Small Gouges & Pin Holes	Brown Fibrous Homogeneous	45% Cellulose 10% Glass	45% Non-fibrous (other)	None Detected
3243-03-02 071204526-0007	2'x2' Ceiling Tile: Small Gouges & Pin Holes	Brown Fibrous Homogeneous	40% Cellulose 20% Glass	40% Non-fibrous (other)	None Detected

Analyst(s)

Anthony Sanaie (7)

Thomas Michel (12)

Victoria Panariello, Asbestos Lab 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 Atlanta, GA NVLAP Lab Code 101048-1

Initial report from 08/17/2012 15:44:44

**EMSL Analytical, Inc**

1800 Water Place, Suite 228, Atlanta, GA 30339

Phone/Fax: (770) 956-9150 / (770) 956-9181

<http://www.emsl.com>atlantalab@emsl.com

EMSL Order: 071204526

CustomerID: ENVI40

CustomerPO:

ProjectID:

Attn: **Marlinah McCall**
Environmental Materials Consultants
2027 Chestnut Street
Montgomery, AL 36106

Phone: (334) 265-4000
 Fax: (334) 265-4043
 Received: 08/16/12 9:00 AM
 Analysis Date: 8/17/2012
 Collected: 8/15/2012

Project: **Former Gurney Apparel Building/MA-3243**

Test Report: Asbestos Analysis of Bulk Materials via EPA 600/R-93/116 and/or EPA 600/M4-82-020 Method(s) using Polarized Light Microscopy

Sample	Description	Appearance	<u>Non-Asbestos</u>		<u>Asbestos</u>
			% Fibrous	% Non-Fibrous	% Type
3243-04-01 071204526-0008	2'x4' Ceiling Tile: Small Gouges & Pin Holes	Various Fibrous Heterogeneous	45% Cellulose 5% Glass	50% Non-fibrous (other)	None Detected
3243-04-02 071204526-0009	2'x4' Ceiling Tile: Small Gouges & Pin Holes	Various Fibrous Heterogeneous	45% Cellulose 5% Glass	50% Non-fibrous (other)	None Detected
Inseparable paint / coating layer included in analysis					
3243-04-03 071204526-0010	2'x4' Ceiling Tile: Small Gouges & Pin Holes	Various Fibrous Heterogeneous	40% Cellulose 10% Glass	50% Non-fibrous (other)	None Detected
Inseparable paint / coating layer included in analysis					
3243-05-01 071204526-0011	Window Glazing Putty	Various Non-Fibrous Heterogeneous		100% Non-fibrous (other)	<1% Chrysotile
3243-05-02 071204526-0012	Window Glazing Putty	Various Non-Fibrous Heterogeneous		100% Non-fibrous (other)	<1% Chrysotile
3243-05-03 071204526-0013	Window Glazing Putty	Various Non-Fibrous Heterogeneous		100% Non-fibrous (other)	<1% Chrysotile
3243-06-01 071204526-0014	Window Caulk	Various Non-Fibrous Heterogeneous	3% Cellulose 5% Fibrous (other)	92% Non-fibrous (other)	None Detected
3243-06-02 071204526-0015	Window Caulk	Various Non-Fibrous Heterogeneous	3% Cellulose 5% Fibrous (other)	92% Non-fibrous (other)	None Detected

Analyst(s)

Anthony Sanaie (7)

Thomas Michel (12)

Victoria Panariello, Asbestos Lab Manager
or other approved signatory

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Samples analyzed by EMSL Analytical, Inc Atlanta, GA NVLAP Lab Code 101048-1

Initial report from 08/17/2012 15:44:44

**EMSL Analytical, Inc**

1800 Water Place, Suite 228, Atlanta, GA 30339

Phone/Fax: (770) 956-9150 / (770) 956-9181

<http://www.emsl.com>atlantalab@emsl.com

EMSL Order: 071204526

CustomerID: ENVI40

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ProjectID:

Attn: **Marlinah McCall**
Environmental Materials Consultants
2027 Chestnut Street
Montgomery, AL 36106

Phone: (334) 265-4000
Fax: (334) 265-4043
Received: 08/16/12 9:00 AM
Analysis Date: 8/17/2012
Collected: 8/15/2012

Project: **Former Gurney Apparel Building/MA-3243****Test Report: Asbestos Analysis of Bulk Materials via EPA 600/R-93/116 and/or EPA 600/M4-82-020 Method(s) using Polarized Light Microscopy**

Sample	Description	Appearance	<u>Non-Asbestos</u>		<u>Asbestos</u>
			% Fibrous	% Non-Fibrous	% Type
3243-06-03 071204526-0016	Window Caulk	Various Non-Fibrous Heterogeneous	<1% Cellulose	100% Non-fibrous (other)	None Detected
3243-07-01 071204526-0017	Flat Roofing	Various Fibrous Heterogeneous	5% Cellulose 25% Glass	70% Non-fibrous (other)	None Detected
This is a composite result of multiple roofing layers					
3243-07-02 071204526-0018	Flat Roofing	Various Fibrous Heterogeneous	15% Glass	85% Non-fibrous (other)	None Detected
This is a composite result of multiple roofing layers					
3243-07-03 071204526-0019	Flat Roofing	Various Fibrous Heterogeneous	40% Glass	60% Non-fibrous (other)	None Detected
Composite analysis of multiple layers					

Analyst(s)

Anthony Sanaie (7)

Thomas Michel (12)

Victoria Panariello, Asbestos Lab Manager
or other approved signatory

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Samples analyzed by EMSL Analytical, Inc Atlanta, GA NVLAP Lab Code 101048-1

Initial report from 08/17/2012 15:44:44

**EMSL Analytical, Inc**

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EMSL Order: 071204526

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ProjectID:

Attn: **Marlinah McCall**
Environmental Materials Consultants
2027 Chestnut Street
Montgomery, AL 36106

Phone: (334) 265-4000
Fax: (334) 265-4043
Received: 08/16/12 9:00 AM
Analysis Date: 8/20/2012
Collected: 8/15/2012

Project: **Former Gurney Apparel Building/MA-3243**

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
3243-02-01 071204526-0004	12"x12" Floor Tile: Beige	Beige Non-Fibrous Homogeneous	100	None	No Asbestos Detected

Analyst(s)

Victoria Panariello (1)

Victoria Panariello, Asbestos Lab 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 Atlanta, GA

Initial report from 08/20/2012 14:40:10

**EMSL Analytical, Inc**

1800 Water Place, Suite 228, Atlanta, GA 30339

Phone/Fax: (770) 956-9150 / (770) 956-9181

<http://www.emsl.com>atlantalab@emsl.com

EMSL Order: 071204526

CustomerID: ENVI40

CustomerPO:

ProjectID:

Attn: **Marlinah McCall**
Environmental Materials Consultants
2027 Chestnut Street
Montgomery, AL 36106

Phone: (334) 265-4000
Fax: (334) 265-4043
Received: 08/16/12 9:00 AM
Analysis Date: 8/27/2012
Collected: 8/15/2012

Project: **Former Gurney Apparel Building/MA-3243**

**Test Report: Test Report: Asbestos Analysis of Bulk Material via EPA 600/R-93/116
and/or EPA 600/M4-82-020. Quantitation using 400 Point Count Procedure**

Sample	Description	Appearance	Non-Asbestos		Asbestos
			% Fibrous	% Non-Fibrous	% Type
3243-05-01 071204526-0011	Window Glazing Putty	Various Non-Fibrous Heterogeneous		99.75% Non-fibrous (other)	0.25% Chrysotile
3243-05-02 071204526-0012	Window Glazing Putty	Various Non-Fibrous Homogeneous		99.75% Non-fibrous (other)	0.25% Chrysotile
3243-05-03 071204526-0013	Window Glazing Putty	Various Non-Fibrous Heterogeneous		99.50% Non-fibrous (other)	0.50% Chrysotile

Analyst(s)

Victoria Panariello (3)

Victoria Panariello, Asbestos Lab Manager
or other approved signatory

Disclaimer: Some samples may contain asbestos fibers present in dimensions below PLM resolution limits. The limit of detection as stated in the method is 0.25%. EMSL Analytical Inc suggests that samples reported as <0.25% or none detected undergo additional analysis via TEM. The above test report relates only to the items tested. This report may not be reproduced, except in full, without written approval of EMSL Analytical Inc. This test report must not be used by the client to claim product endorsement by NVLAP or any agency of the United States Government. EMSL Analytical Inc., bears no responsibility for sample collection activities, analytical method limitations, or the accuracy of results when requested to separate layered samples. EMSL Analytical Inc., liability is limited to the cost of sample analysis. The test results contained within this report meet the requirements of NELAC unless otherwise noted. 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 Atlanta, GA

Initial report from 08/27/2012 11:19:10



EMSL ANALYTICAL, INC.
Environmental Materials Consultants, Inc.

Asbestos Lab Services Chain of Custody

EMSL Order Number (Lab Use Only):

071204526

Atlanta, GA
Suite 228
1800 Water Place
Atlanta, GA 30339
PHONE: (770) 956-9150
FAX: (770) 956-9181

Company: Environmental-Materials Consultants, Inc.		EMSL-Bill to: <input checked="" type="checkbox"/> Same <input type="checkbox"/> Different If Bill to is Different note instructions in Comments** Third Party Billing requires written authorization from third party	
Street: 2027 Chestnut Street			
City/State/Zip: Montgomery, AL 36106		Fax: 334-265-4043	
Report To (Name): Marlinah McCall		Email Address: mbmccall@emcinc.net	
Telephone: 334-265-4000			
Project Name/Number: Former Gurney Apparel Building/MA-3243		State Samples Taken: AL	
Please Provide Results: Email		Purchase Order:	

Turnaround Time (TAT) Options* - Please Check

☐ 3 Hour ☐ 5 Hour ☐ 24 Hour ☐ 48 Hour ☒ 72 Hour ☐ 96 Hour ☐ 1 Week ☐ 2 Week

*For TEM Air 3 hours/6 hours, 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.

PCM - Air

- ☐ NIOSH 7400
☐ w/ OSHA 8hr. TWA

PLM - Bulk (reporting limit)

- ☒ PLM EPA 600/R-93/116 (<1%) *TM*
☐ PLM EPA NOB (<1%)
Point Count
☐ 400 (<0.25%) ☐ 1000 (<0.1%)
Point Count w/Gravimetric
☐ 400 (<0.25%) ☐ 1000 (<0.1%)
☐ NYS 198.1 (friable in NY)
☐ NYS 198.6 NOB (non-friable-NY)
☐ NIOSH 9002 (<1%)

TEM - Air ☐ 4-4.5hr TAT (AHERA only)

- ☐ AHERA 40 CFR, Part 763
☐ NIOSH 7402
☐ EPA Level II
☐ ISO 10312

TEM - Bulk

- ☒ TEM EPA NOB
☐ NYS NOB 198.4 (non-friable-NY)
☐ Chatfield SOP
☐ TEM Mass Analysis-EPA 600 sec. 2.5

TEM - Water: EPA 100.2

- Fibers >10µm ☐ Waste ☐ Drinking
All Fiber Sizes ☐ Waste ☐ Drinking

TEM - Dust

- ☐ Microvac - ASTM D 5755
☐ Wipe - ASTM D6480
☐ Carpet Sonication (EPA 600/J-93/167)

Soil/Rock/Vermiculite

- ☐ PLM CARB 435 - A (0.25% sensitivity)
☐ PLM CARB 435 - B (0.1% sensitivity)
☐ TEM CARB 435 - B (0.1% sensitivity)
☐ TEM CARB 435 - C (0.01% sensitivity)
☐ EPA Protocol (Semi-Quantitative)
☐ EPA Protocol (Quantitative)

Other:

☐

☒ Check For Positive Stop - Clearly Identify Homogenous Group

Samplers Name: Marlinah McCall

Samplers Signature: *Marlinah McCall*

Sample #	Sample Description	Volume/Area (Air) HA # (Bulk)	Date/Time Sampled
3243-01-01	wallboard & joint compound		08/15/2012
3243-01-02	wallboard & joint compound		08/15/2012
3243-01-03	wallboard & joint compound		08/15/2012
3243-02-01	12"x12" floor tile: beige		08/15/2012
3243-02-02	12"x12" floor tile: beige		08/15/2012
3243-03-01	2'x2' ceiling tile: small gouges & pin holes		08/15/2012
3243-03-02	2'x2' ceiling tile: small gouges & pin holes		08/15/2012
3243-04-01	2'x4' ceiling tile: small gouges & pin holes		08/15/2012

Client Sample # (s):

3243-01-01 - 3243-07-03

Total # of Samples: 19

Relinquished (Client): *Marlinah McCall*

Date: 08/15/2012

Time: 4:31 PM

Received (Lab): *UB*

Date: 8/16/12

Time: 900E

Comments/Special Instructions: Initially analyze all samples as a single composite. If asbestos is detected in the composite sample please analyze each layer of that sample. For all floor tile found negative by PLM, please analyze the sample of that floor tile by TEM.

ATLANTA, GA

1800 Water Place
Atlanta, GA 30339
PHONE: (770) 956-9150
FAX: (770) 956-9181

***Comments/Special Instructions:** Initially analyze all samples as a single composite. If asbestos is detected in the the composite sample please analyze each layer of that sample. For all floor tile found negative by PLM, please analyze the sample of that floor tile by TEM.