

## Limited Asbestos Inventory Summary

To:	Michael A. Ciofani AIA NCARB
From:	Jeff Senn and Robert Peschel – Sigma
Project Number:	13205
Date:	May 22, 2012
RE:	VA Medical Center – Milwaukee, WI VA Project 695-12-119 Building 113 Replace Switchgear

### Background

Chequamegon Bay Engineering, LLC (Chequamegon Bay) retained Sigma to conduct a limited pre-renovation asbestos survey at the VA Medical Center (VA) facility located in Milwaukee, Wisconsin. The VA intends to replace the switchgear in Building 113. Pre-renovation asbestos inspections are required by the United States Environmental Protection Agency's (USEPA) National Emission Standards for Hazardous Air Pollutants (NESHAP) regulations provided in 40 CFR 61 and the Wisconsin Department of Natural Resources (WDNR) Control of Asbestos Emissions (WAC Chapter NR 447). The VAMC is required to perform a thorough asbestos inspection of the affected facility or part of the facility where the demolition/renovation operations will occur prior to the commencement of the renovation.

State of Wisconsin certified asbestos inspectors, Mr. Dale Armbruster (AI-156285) and Mr. Tom McCoy (AI-117261), performed the limited pre-renovation asbestos inspection on March 29, 2012. Attachment 1 provides a copy of Mr. Armbruster's and Mr. McCoy's asbestos inspection certification cards. This limited pre-renovation asbestos inspection was performed in substantial compliance with the USEPA NESHAP and WDNR WAC Chapter NR 447 inspection and sampling requirements. The asbestos inspection included visual observation, material sampling, and laboratory analysis of suspect asbestos-containing building materials (ACBM).

### Material Assessment Results

Sigma inspected areas within Building 113 as indicated on Figure 1 provided in Attachment 2 for suspect ACBMs. The following materials were evaluated by Sigma for the presence of asbestos.

- Caulk –grey (negative)
- Caulk – tan on floor (negative)
- Caulk – white on doorframe (negative)
- 1'x1' Ceiling tile – white with holes and pucks (negative)
- Concrete block mortar (negative)
- Fire packing – red (negative)
- 9" Floor tile and mastic – grey (3.1% asbestos by PLM point count in tile and 3.5% asbestos by PLM point count in mastic)
- Mortar patch – grey (negative)

- Stair tread and mastic – tan (negative)
- 2'x4' Suspended ceiling tile – white with holes and fissures (negative)

Sigma did not evaluate energized building systems for the presence of asbestos. The analytical report and chain of custody are provided in Attachment 2.

### **Estimated Material Quantities**

The following provides the general quantities of ACBM.

- 9" Floor tile and mastic – grey – 650 square feet

The estimated quantities of ACBM should be considered a preliminary quantity estimate for each identified ACBM. ***It is recommended that quantities of identified ACBMs be field verified by the abatement contractors bidding on the abatement activities.***

### **Recommendation**

The 9-inch floor tile and mastic were determined to contain greater than one percent asbestos and are therefore classified as ACBM and subject to the Wisconsin Department of Natural Resources Chapter NR 447 and the Wisconsin Department of Health Services Chapter 159 removal and disposal requirements. Removal of these materials should be performed in accordance with the state and federal rules and regulations.

Sigma recommends that there is one individual on-site during abatement and demolition that is designated as a "Competent Person". At a minimum, this individual shall be a State of Wisconsin certified asbestos supervisor familiar with applicable asbestos and hazardous material related regulations; have the experience to recognize potential work crew and environmental exposures; institute proper personal protective equipment and personnel monitoring as necessary; have the authority to stop work; and meet training requirements established by the State of Wisconsin. Discovery of suspect asbestos and/or other hazardous materials should be reported immediately to the Owner so that appropriate measures can be implemented. Further sampling of newly discovered materials may be required to confirm the presence of ACBM within walls and other areas that were not visible or reasonably accessible during the asbestos inspection. Any additional or ACBM discovered after this inspection is the responsibility of the building owner.

### **Attachments**

1. Asbestos Inspector Certifications
2. Figure 1 – Limits of Inspection
3. Micro Analytical, Inc. Bulk Asbestos Analytical Report & Chain of Custody Documentation

**ATTACHMENT 1**

**Asbestos Inspector Certifications**

**ASBESTOS SUPERVISOR**

Issued By

STATE OF WISCONSIN

Dept. of Health Services

Dale Cameron Armbruster  
823 Blaine Ave  
Racine WI 53405-2407

		220 lbs	5' 10"
ACS-156285	Exp: 06/17/2012	03/23/1960	Male

Training due by: 06/17/2012

**ASBESTOS INSPECTOR**

Issued By

STATE OF WISCONSIN

Dept. of Health Services

Dale Cameron Armbruster  
823 Blaine Ave  
Racine WI 53405-2407

		220 lbs	5' 10"
AIL-156285	Exp: 08/11/2012	03/23/1960	Male

Training due by: 08/11/2012

**ASBESTOS SUPERVISOR**

Issued By

**STATE OF WISCONSIN**

Dept. of Health Services

Thomas J McCoy Jr  
809 Buena Vista Ave  
Waukesha WI 53188-3849

		195 lbs	5' 10"
ACS-117261	Exp: 03/03/2013	02/01/1960	Male

Training due by: 03/03/2013

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		195 lbs	5' 10"
AII-117261	Exp: 04/07/2013	02/01/1960	Male

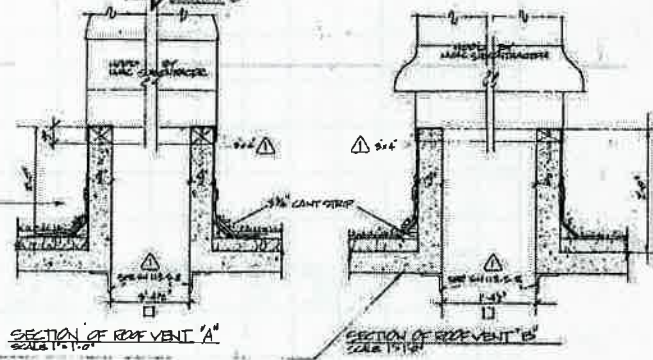
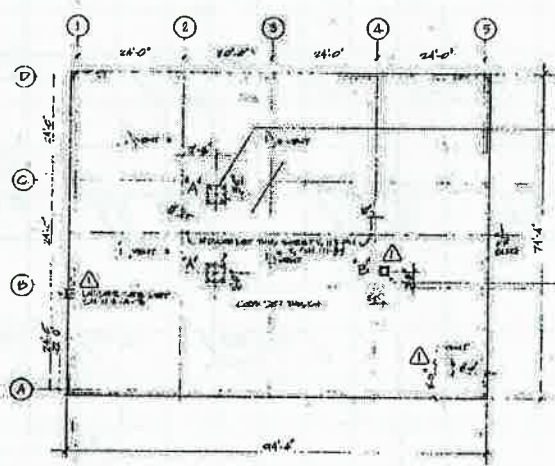
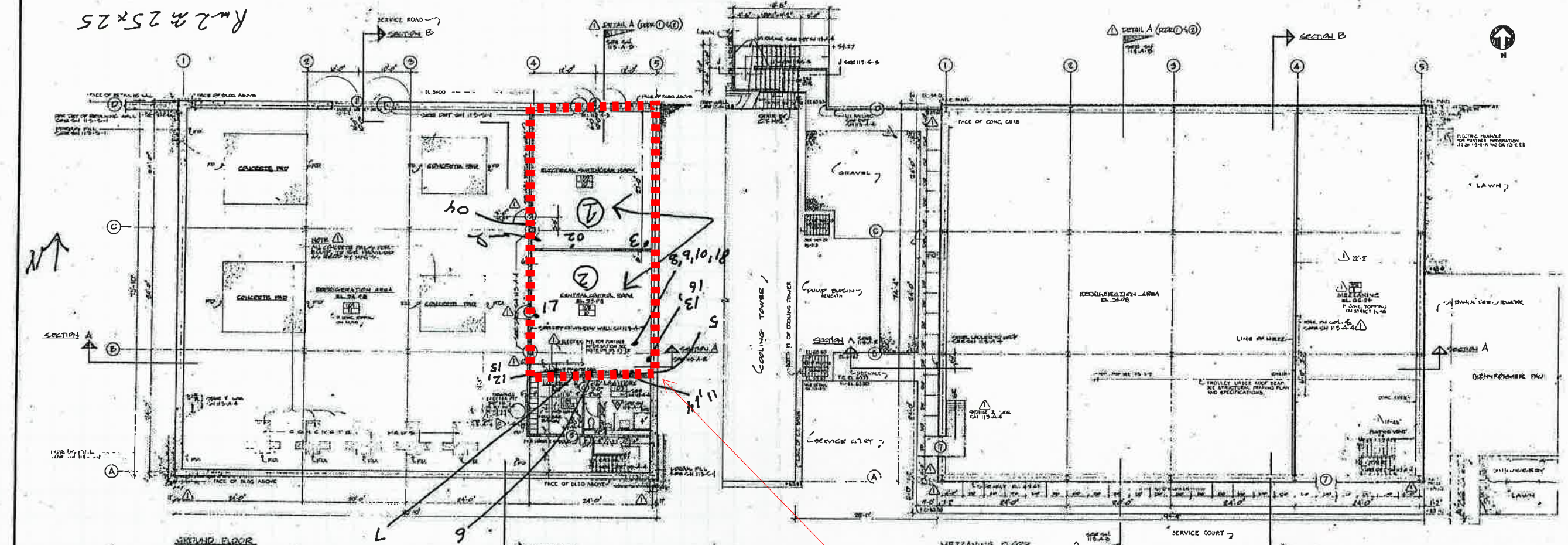
Training due by: 04/07/2013

## **ATTACHMENT 2**

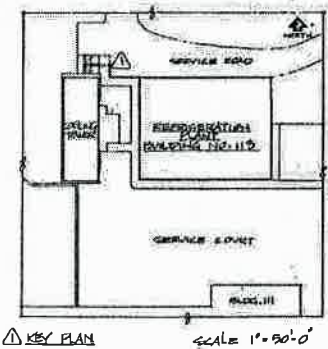
**Figure 1 – Limits of Inspection**



Rm 2 25x25  
Rm 1 25x25



Limits of Inspection



<b>FLOOR PLANS &amp; DETAILS</b> <b>REFRIGERATION PLANT</b> BUILDING NO. 113 1264 BED GM & S HOSPITAL AND REGIONAL OFFICE MEDICAL CLINICS VETERANS ADMINISTRATION <b>WOOD, WISCONSIN</b>	
Drawn by: Checked by: Date: 11-1-60	Project No.: 48-5147 Date: 11-1-60 Scale: 1/8" = 1'-0"
URBAIN BRAYTON & BURROWS AND BRUST & BRUST ARCHITECTS - ENGINEERS NEW YORK, N.Y. & MILWAUKEE, WIS.	
SYSKA & HENNESSY, INC. ENGINEERS NEW YORK, N.Y.	
Approval - Director, Design Service Project No. 48-5147	

18 Samples

#13205

**ATTACHMENT 3**

**Micro Analytical, Inc. Bulk Asbestos Analytical Report  
&  
Chain of Custody Documentation  
March 29, 2012**



# CERTIFICATE OF ANALYSIS

<b>Client:</b>	Sigma Environmental Services	<b>Report Date:</b>	4/6/2012
	1300 West Canal Street	<b>Report No:</b>	268835
	Milwaukee WI 53233	<b>Project:</b>	Building 113; 3/29/12
		<b>Project No.:</b>	13205

## BULK SAMPLE ANALYSIS SUMMARY

<b>Lab No.:</b>	4612339	<b>Description / Location:</b>	Tan Mortar Patch	
<b>Client No.:</b>	01		Room 1 SW	
<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>	4612340	<b>Description / Location:</b>	Red NonFibrous; Fire Stop Packing	
<b>Client No.:</b>	02		Room 1 S	
<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>	4612341	<b>Description / Location:</b>	Grey Caulk	
<b>Client No.:</b>	03		Room 1 SE	
<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>	4612342	<b>Description / Location:</b>	Tan Door Caulk	
<b>Client No.:</b>	04		Room 1 SW	
<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>Accreditation</b>	<b>NIST-NVLAP No. 101165-0</b>	<b>NY-DOH No. 11021</b>	<b>AIHA-LAP, LLC No. 100188</b>
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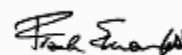
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**Analytical Method:** EPA 600/R-93/116, by Polarized Light Microscopy

**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:** B. Fauseit

**Approved By:**



**Date:** 4/6/2012

Frank E. Ehrenfeld, III  
Laboratory Director

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	Milwaukee WI 53233	<b>Project:</b>	Building 113; 3/29/12
		<b>Project No.:</b>	13205

## BULK SAMPLE ANALYSIS SUMMARY

<b>Lab No.:</b>	4612343	<b>Description / Location:</b>	Tan Plaster; Concrete Block Mortar	
<b>Client No.:</b>	05		Room 2 SW	
<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>	4612344	<b>Description / Location:</b>	Tan Plaster; Concrete Block Mortar	
<b>Client No.:</b>	06		Room 2 S	
<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>	4612345	<b>Description / Location:</b>	Tan Plaster; Concrete Block Mortar	
<b>Client No.:</b>	07		Room 2 S	
<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>Accreditation</b>	<b>NIST-NVLAP No. 101165-0</b>	<b>NY-DOH No. 11021</b>	<b>AIHA-LAP, LLC No. 100188</b>
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**Date:** 4/6/2012

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		<b>Project No.:</b>	13205

## BULK SAMPLE ANALYSIS SUMMARY

<b>Lab No.:</b>	4612346	<b>Description / Location:</b>	Grey Floor Tile; 9"	
<b>Client No.:</b>	08		Room 2 SE	
<u>% Asbestos</u>	<u>Type</u>	<u>% Non-Asbestos Fibrous Material</u>	<u>Type</u>	<u>% Non-Fibrous Material</u>
PC 3.1	Chrysotile	None Detected	None Detected	PC 96.9

<b>Lab No.:</b>	4612346	<b>Description / Location:</b>	Black Mastic	<b>Layer No.:</b>	2
<b>Client No.:</b>	08		Room 2 SE		
<u>% Asbestos</u>	<u>Type</u>	<u>% Non-Asbestos Fibrous Material</u>	<u>Type</u>	<u>% Non-Fibrous Material</u>	
PC 3.5	Chrysotile	None Detected	None Detected	PC 96.5	

<b>Lab No.:</b>	4612347	<b>Description / Location:</b>	Sample Not Analyzed		
<b>Client No.:</b>	09				
<u>% Asbestos</u>	<u>Type</u>	<u>% Non-Asbestos Fibrous Material</u>	<u>Type</u>	<u>% Non-Fibrous Material</u>	
	Sample Not Analyzed		Sample Not Analyzed		

<b>Lab No.:</b>	4612348	<b>Description / Location:</b>	Sample Not Analyzed		
<b>Client No.:</b>	10				
<u>% Asbestos</u>	<u>Type</u>	<u>% Non-Asbestos Fibrous Material</u>	<u>Type</u>	<u>% Non-Fibrous Material</u>	
	Sample Not Analyzed		Sample Not Analyzed		

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<b>Analytical Method:</b>	EPA 600/R-93/116, by Polarized Light Microscopy
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**Analysis Performed By:** B. Fauseit

**Date:** 4/6/2012

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	1300 West Canal Street	<b>Report No:</b>	268835
	Milwaukee WI 53233	<b>Project:</b>	Building 113; 3/29/12
		<b>Project No.:</b>	13205

## BULK SAMPLE ANALYSIS SUMMARY

<b>Lab No.:</b>	4612349	<b>Description / Location:</b>	Tan Ceiling Tile; 2x4	
<b>Client No.:</b>	11		Room 2 SE	
<u>% Asbestos</u>	<u>Type</u>	<u>% Non-Asbestos Fibrous Material</u>	<u>Type</u>	<u>% Non-Fibrous Material</u>
None Detected	None Detected	40	Cellulose	20
		40	Fibrous Glass	

<b>Lab No.:</b>	4612350	<b>Description / Location:</b>	Tan Ceiling Tile; 2x4	
<b>Client No.:</b>	12		Room 2 SW	
<u>% Asbestos</u>	<u>Type</u>	<u>% Non-Asbestos Fibrous Material</u>	<u>Type</u>	<u>% Non-Fibrous Material</u>
None Detected	None Detected	40	Cellulose	20
		40	Fibrous Glass	

<b>Lab No.:</b>	4612351	<b>Description / Location:</b>	Tan Ceiling Tile; 2x4	
<b>Client No.:</b>	13		Room 2 SE	
<u>% Asbestos</u>	<u>Type</u>	<u>% Non-Asbestos Fibrous Material</u>	<u>Type</u>	<u>% Non-Fibrous Material</u>
None Detected	None Detected	40	Cellulose	20
		40	Fibrous Glass	

**Accreditation**

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

**NY-DOH No. 11021**

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

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**Analytical Method:**

EPA 600/R-93/116, by Polarized Light Microscopy

**Comments:**

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		<b>Project No.:</b>	13205

## BULK SAMPLE ANALYSIS SUMMARY

<b>Lab No.:</b>	4612352	<b>Description / Location:</b>	Tan Ceiling Tile; 1x1	
<b>Client No.:</b>	14		Room 2 SE	
<u>% Asbestos</u>	<u>Type</u>	<u>% Non-Asbestos Fibrous Material</u>	<u>Type</u>	<u>% Non-Fibrous Material</u>
None Detected	None Detected	100	Cellulose	None Detected

<b>Lab No.:</b>	4612352	<b>Description / Location:</b>	Brown Mastic		<b>Layer No.:</b>	2
<b>Client No.:</b>	14		Room 2 SE			
<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>	4612353	<b>Description / Location:</b>	Tan Ceiling Tile; 1x1	
<b>Client No.:</b>	15		Room 2 SW	
<u>% Asbestos</u>	<u>Type</u>	<u>% Non-Asbestos Fibrous Material</u>	<u>Type</u>	<u>% Non-Fibrous Material</u>
None Detected	None Detected	100	Cellulose	None Detected

<b>Lab No.:</b>	4612353	<b>Description / Location:</b>	Tan Mastic		<b>Layer No.:</b>	2
<b>Client No.:</b>	15		Room 2 SW			
<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>Accreditation</b>	<b>NIST-NVLAP No. 101165-0</b>	<b>NY-DOH No. 11021</b>	<b>AIHA-LAP, LLC No. 100188</b>
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		<b>Project No.:</b>	13205

## BULK SAMPLE ANALYSIS SUMMARY

<b>Lab No.:</b>	4612354	<b>Description / Location:</b>	Tan Ceiling Tile; 1x1	
<b>Client No.:</b>	16		Room 2 SE	
<u>% Asbestos</u>	<u>Type</u>	<u>% Non-Asbestos Fibrous Material</u>	<u>Type</u>	<u>% Non-Fibrous Material</u>
None Detected	None Detected	100	Cellulose	None Detected

<b>Lab No.:</b>	4612354	<b>Description / Location:</b>	Tan Mastic	<b>Layer No.:</b>	2
<b>Client No.:</b>	16		Room 2 SE		
<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>	4612355	<b>Description / Location:</b>	Grey Stair Tread	
<b>Client No.:</b>	17		Room 2 W	
<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>	4612355	<b>Description / Location:</b>	Yellow Mastic	
<b>Client No.:</b>	17		Room 2 W	
<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>Accreditation</b>	<b>NIST-NVLAP No. 101165-0</b>	<b>NY-DOH No. 11021</b>	<b>AIHA-LAP, LLC No. 100188</b>
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**Analysis Performed By:** B. Fauseit

**Date:** 4/6/2012



9000 Commerce Parkway, Ste B  
Mount Laurel, NJ 08054  
Toll Free 877-428-4285  
Local: 856-231-9449  
Fax: 856-231-9818

## CERTIFICATE OF ANALYSIS

**Client:** Sigma Environmental Services  
1300 West Canal Street  
Milwaukee WI 53233

**Report Date:** 4/6/2012  
**Report No:** 268835  
**Project:** Building 113; 3/29/12  
**Project No.:** 13205

### BULK SAMPLE ANALYSIS SUMMARY

<b>Lab No.:</b>	4612356	<b>Description / Location:</b>	Tan Mastic	
<b>Client No.:</b>	18		Room 2 SE	
<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

Note: Different material than indicated on Sample Log / Description.

#### Accreditation

NIST-NVLAP No. 101165-0

NY-DOH No. 11021

AIHA-LAP, LLC No. 100188

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#### 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:** B. Fauseit

**Date:** 4/6/2012

**CDavis**

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**From:** Ray Sankey [RaySankey@iatl.com]  
**Sent:** Wednesday, April 11, 2012 11:45 AM  
**To:** 'CDavis'  
**Subject:** FW: Project Numbers

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**Raymond Sankey**  
Business Development Coordinator  
International Asbestos Testing Laboratories  
9000 Commerce Parkway, Suite B  
Mt. Laurel, NJ 08054  
Ph 856 231-9449  
Fx 856-231-9818

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**From:** Jeff Senn [mailto:jsenn@thesigmagroup.com]  
**Sent:** Monday, April 09, 2012 4:30 PM  
**To:** Ray Sankey  
**Cc:** Dale Armbruster; Tom McCoy; Robert Peschel  
**Subject:** Project Numbers

Hello Ray,

Please modify the following reports to reflect our internal project numbers.

IATL Report 268832  
Change Project Number from 13205 to 13180

IATL Report 268835  
Change Project Number from 13180 to 13205

Include this email with the Chain of Custody for each project.

4/11/2012

Please call or email with questions.

Thanks much,  
Jeff

--

Jeffrey M. Senn, CHMM  
Senior Engineer  
Sigma Environmental Services, Inc.  
414.643.4151 (direct)  
414.588.4952 (cell)  
1300 W Canal Street, Milwaukee, WI 53233  
[jsenn@thesigmagroup.com](mailto:jsenn@thesigmagroup.com) | [www.thesigmagroup.com](http://www.thesigmagroup.com)



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International Asbestos Testing Laboratories  
9000 Commerce Parkway, Suite B  
Mt. Laurel, New Jersey 08054

Tel. 856 231-9449  
Fax 856 231-9818

## - Chain of Custody -

Client: Sigma Environmental Services, Inc.  
1300 West Canal Street  
Milwaukee, Wisconsin  
Phone: (414) 643-4200  
FAX: (414) 643-4210

Project Name: \_\_\_\_\_  
Project No.: 13180  
Contact: Jeff Senn  
Pager: 414-643-4151

Special: \_\_\_\_\_  
Instructions: \_\_\_\_\_

### Type:

Asbestos		Lead		Other	
<input checked="" type="checkbox"/> Air	<input type="checkbox"/> Soil	<input type="checkbox"/> Air	<input type="checkbox"/> Soil		
<input checked="" type="checkbox"/> Bulk	<input type="checkbox"/> Dust	<input type="checkbox"/> Bulk	<input type="checkbox"/> Dust		
<input type="checkbox"/> Water	<input type="checkbox"/> Other	<input type="checkbox"/> Water	<input type="checkbox"/> Other		

### Analysis Method:

<input type="checkbox"/> PCM: NIOSH 7400	<input checked="" type="checkbox"/> PLM: Bulk Asbestos EPA 600	<input type="checkbox"/> TEM: AHERA
<input type="checkbox"/> PCM: OSHA	<input checked="" type="checkbox"/> PLM: Point Counting 198.1	<input type="checkbox"/> TEM: NIOSH 7402
<input type="checkbox"/> PCM: Other _____	<input type="checkbox"/> PLM: NOB via 198.1 (PLM only)	<input type="checkbox"/> TEM: EPA Level II
	<input type="checkbox"/> If <1% by PLM, to TEM via 198.4 to meet NYSDOH requirements** (** call to confirm TAT!)	<input type="checkbox"/> TEM: Microvac/Wipe
<input type="checkbox"/> AAS: NIOSH 7082 (Air)		<input type="checkbox"/> TEM: Asbestos in Water
<input type="checkbox"/> AAS: Lead in Drinking Water		<input type="checkbox"/> TEM: Bulk Analysis
<input type="checkbox"/> AAS: Lead in Paint ASTM D3335-85a		<input type="checkbox"/> TEM: NOB 198.4
<input type="checkbox"/> AAS: Lead Dust/Wipe		<input type="checkbox"/> TEM: Other _____
<input type="checkbox"/> AAS: Other Metals/Soil _____		<input type="checkbox"/> Total Dust: NIOSH 0500

### Turnaround

FAX: \_\_\_\_\_ date / time      Verbals: \_\_\_\_\_ date / time

### Time:

<input type="checkbox"/> 10 Day	<input type="checkbox"/> 3 Day	<input type="checkbox"/> 1 Day	<input type="checkbox"/> RUSH
<input checked="" type="checkbox"/> 5 Day	<input type="checkbox"/> 2 Day	<input type="checkbox"/> 6 Hour	

Preliminary FAX / Verbal Results Requested by: \_\_\_\_\_

### Sample Numbers:

Client #(s): 01 - 18  
(start) (end)  
IATL #(s): \_\_\_\_\_ - \_\_\_\_\_  
(start) (end)      Total: 18

### Chain of Custody:

Relinquished: <u>[Signature]</u>	Date: <u>3/30/12</u>	Time: <u>14:15</u>
Received: _____	Date: _____	Time: _____
Sample Log-in: <u>7415712</u>	Date: _____	Time: _____
Sample Prep: _____	Date: <u>APR - 2 2012</u>	Time: _____
Analyzed: _____	Date: _____	Time: _____
QA/QC Review: <u>[Signature]</u>	Date: _____	Time: _____

IATL By: [Signature]

Archived/Released: \_\_\_\_\_ Date: \_\_\_\_\_      QA/QC InterLAB Use: \_\_\_\_\_ Time: \_\_\_\_\_



SIGMA ENVIRONMENTAL SERVICES, INC.  
1300 West Canal Street  
Milwaukee, Wisconsin 53233

## Supplemental Asbestos Chain of Custody

Project Number: 13180  
Number of Samples: 18

In addition to the information provided on the laboratory chain of custody, Sigma requires the following (checked items only):

☒ When the laboratory observes an apparent discrepancy between Sigma's material description and the sample received by the laboratory, the laboratory shall flag the material description on the laboratory report and define on the laboratory report the specific discrepancy(s) noted.

☐ With the exception of drywall and joint compound samples, analyze and report each distinct and separable material layer unless otherwise instructed on the attached "Sigma Sample Material List" sheet(s). Laboratory to determine distinct and separable layers and provide layer descriptions for each individual layer.

☒ Analyze and report each distinct and separable material layer unless otherwise instructed on the attached "Sigma Sample Material List" sheet(s). Laboratory to determine distinct and separable layers and provide layer descriptions for each individual layer.

☒ Discontinue analysis of homogenous material upon determining that the material contains greater than one percent asbestos content. If the homogeneous material contains multiple layers, continue analysis of each layer until all samples have been analyzed or until it has been determined that the layer contains greater than one percent asbestos content. See item #4 for flooring system Positive Stop instructions.

For example, if Sigma submitted three roofing system samples and the top layer sample analysis revealed asbestos is present at greater than one percent, the top layer analysis would be discontinued but the underlying layer(s) analysis would continue until greater than one percent asbestos is detected or until all three underlying sample layers have been analyzed. This assumes, however, that the materials are in fact homogenous. Through microscopic examination, it may be determined by the analyst that there are additional layers not present in each sample. In that case, the individual sample layer should also be analyzed.

☒ Flooring Systems (including floor tile systems, vinyl flooring systems, vinyl laminate systems, and stair tread systems): Conduct analysis of the mastic layer(s) first. If analysis reveals greater than one percent asbestos content, discontinue analysis of the mastic layers and do not analyze the flooring material (tile, vinyl, laminate, etc.) Call Jeff Senn at (414) 643-4151 with specific questions.

## Sigma Sample Material List

Page 1 of 1

Project: 13180  
Building: Bldg. 113Date: 3/29/12  
Inspectors: TM/DA

Sample Number	Homogenous Material Code	Homogeneous Material Description	Functional Area/ Room Number	Location within Room	
01	MMP-1	Gray Mortar Patch	1	SW	46123339
02	MRFSP-1	Red Fire Stop Packing	1	S	46123340
03	MC-1	Gray Caulk	1	SE	46123341
04	MC-2	White Door Caulk	1	SW	46123342
05	MCBM	Concrete Block Mortar	2	SW	46123343
06	MCBM		2	S	46123344
07	MCBM		2	S	46123345
08	<del>MRF</del> MR9-1	9" Floor Tile Cream Grey	2	SE	46123346
09	<del>MRF</del> MR9-1		2	SE	46123347
10	<del>MRF</del> MR9-1		2	SE	46123348
11	MSCT-1	2x4 White Ceiling Tile	2	SE	46123349
12	MSCT-1		2	SW	46123350
13	MSCT-1		2	SE	46123351
14	MCT-1	1x1 White Ceiling Tile	2	SE	46123352
15	MCT-1		2	SW	46123353
16	MCT-1		2	SE	46123354
17	MSTM	Stair Tread Mastic Tan	2	SW	46123355
18	MC-3	Tan Floor Caulk	2	SE	46123356
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## Facility Walkthru

Project: ~~13180~~ 15  
Building: B149, 113

Inspectors: TML/DA

Time In/ Time Out:

### Color Codes

**T = Tan**

**C = Cream**

**E = Beige**

P = Pink

**R = Red**

**L = Yellow**

**L = Yellow**

**D = Gold**

**M = Maroon**

**D = Gold**

**M = Maroon**