

A & A Environmental, Inc.

N4381 US Hwy 51, Poynette, WI 53955

Phone: (608) 240-1511, Mobile Phone: (608) 576-4960, Fax: (608) 635-9717

Revised Results

June 17, 2016

Paul Stauffer
City of Madison
210 Martin Luther King Jr. Blvd
Madison, WI 53703-3342
(608) 266-4366, Cell (608) 575-5270
PStauffer@cityofmadison.com

RE: 215 Martin Luther King Jr. Blvd, Madison, WI 53703

On June 13, 2106 twenty-five bulk samples were collected from the roofing materials on two levels of the main building (not the annex) of the Madison Municipal Building located at 215 Martin Luther King Jr. Blvd. in Madison, WI. The bulk samples were analyzed for asbestos content by polarized light microscopy (PLM).

Samples 15 and 18 were reported to contain > 1% asbestos. Both samples were collected from the roofing material running up the inside of the parapet. Sample 15 is the bottom layer of tar material and Sample 18 is gray tar material in the rolled roofing.

Even though only two of the twenty-five samples were reported to contain asbestos the entire roof should be treated as Category I, non-friable roofing. The contractor removing or repairing the roof should be a State of Wisconsin exterior certified asbestos roofing contractor with State of Wisconsin exterior certified asbestos workers or a State of Wisconsin certified asbestos contractor with State of Wisconsin certified asbestos supervisor and workers.

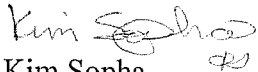
Bulk samples collected from the middle of the built up roofs were reported as no asbestos detected are as follows:

1. Tar under rosin paper
2. Rosin paper
3. Bottom layer of roofing tar
4. Bottom layer of roofing paper
5. Top layer of roofing tar
6. Top layer of roofing paper
7. Perlite

A&A Environmental Inc.'s inspectors are only able to inspect open, safe, and accessible areas inside and outside of the building. Inaccessible suspect material may be hidden throughout this building. Any additional suspect materials discovered during the course of abatement/demolition/remodeling must be assumed to be ACM until sampled by and EPA/State of Wisconsin certified asbestos inspector and proven negative.

If you have any questions concerning this report or the sampling performed please feel free to contact me.

Sincerely,



Kim Sopha
President/Inspector #AII01851

Encl

KAS/bls



June 16, 2016

A & A Environmental
N4381 US Highway 51
Poynette, WI 53955

CLIENT PROJECT: 215 MLK; AA 4247
CEI LAB CODE: B16-4589

Dear Customer:

Enclosed are asbestos analysis results for PLM Bulk samples received at our laboratory on June 14, 2016. The samples were analyzed for asbestos using polarizing light microscopy (PLM) per the EPA 600 Method.

Sample results containing >1% asbestos are considered asbestos-containing materials (ACMs) per EPA regulatory requirements. The detection limit for the EPA 600 Method is <1% asbestos by weight as determined by visual estimation.

Thank you for your business and we look forward to continuing good relations. If you have any questions, please feel free to call our office at 919-481-1413.

Kind Regards,

A handwritten signature in black ink, appearing to read "Tianbao Bai".

Tianbao Bai, Ph.D., CIH
Laboratory Director





ASBESTOS ANALYTICAL REPORT
By: Polarized Light Microscopy

Prepared for

A & A Environmental

CLIENT PROJECT: 215 MLK; AA 4247

CEI LAB CODE: B16-4589

TEST METHOD: EPA 600 / R93 / 116 and EPA 600 / M4-82 / 020

REPORT DATE: 06/16/16

TOTAL SAMPLES ANALYZED: 25

SAMPLES >1% ASBESTOS: 2

TOTAL LAYERS ANALYZED: 25

TEL: 866-481-1412

www.ceilabs.com



Asbestos Report Summary

By: POLARIZING LIGHT MICROSCOPY

PROJECT: 215 MLK; AA 4247

CEI LAB CODE: B16-4589

METHOD: EPA 600 / R93 / 116 and EPA 600 / M4-82 / 020

Client ID	Layer	Lab ID	Color	Sample Description	ASBESTOS %
01		B183105	Black	Tar	None Detected
02		B183106	Tan	Paper	None Detected
03		B183107	Black	Roofing Tar	None Detected
04		B183108	Black,Tan	Roofing Paper	None Detected
06		B183109	Black	Roofing Tar	None Detected
07		B183110	Black,Tan	Roofing Paper	None Detected
08		B183111	Black	Tar	None Detected
09		B183112	Tan	Paper	None Detected
10		B183113	Black	Roofing Tar	None Detected
11		B183114	Black	Roofing Paper	None Detected
12		B183115	Brown	Perilite	None Detected
13		B183116	Black	Roofing Tar	None Detected
14		B183117	Tan,Black	Roofing Paper	None Detected
15		B183118	Black	Tar	Chrysotile 2%
16		B183119	Black	Felt Paper	None Detected
17		B183120	Black	Tar	None Detected
18		B183121	Gray	Tar	Chrysotile 5%
19		B183122	Gray	Rolled Roofing	None Detected
20		B183123	Black	Tar	None Detected
21		B183124	Black	Paper	None Detected
22		B183125	Black	Tar	None Detected
23		B183126	Black	Felt Paper	None Detected
24		B183127	Brown	Perilite	None Detected
25		B183128	Black	Tar	None Detected
26		B183129	Black	Felt Paper	None Detected



ASBESTOS BULK ANALYSIS

By: POLARIZING LIGHT MICROSCOPY

Client: A & A Environmental
 N4381 US Highway 51
 Poynette, WI 53955

CEI Lab Code: B16-4589
Date Received: 06-14-16
Date Analyzed: 06-16-16
Date Reported: 06-16-16

Project: 215 MLK; AA 4247

ASBESTOS BULK PLM, EPA 600 METHOD

Client ID Lab ID	Lab Description	Lab Attributes	NON-ASBESTOS COMPONENTS				ASBESTOS %
			Fibrous		Non-Fibrous		
01 B183105	Tar	Heterogeneous	5%	Cellulose	80%	Tar	None Detected
		Black			15%	Silicates	
		Non-fibrous					
		Bound					
02 B183106	Paper	Heterogeneous	100%	Cellulose			None Detected
		Tan					
		Fibrous					
		Bound					
03 B183107	Roofing Tar	Heterogeneous	5%	Cellulose	80%	Tar	None Detected
		Black			15%	Silicates	
		Non-fibrous					
		Bound					
04 B183108	Roofing Paper	Heterogeneous	60%	Cellulose	30%	Tar	None Detected
		Black, Tan			10%	Silicates	
		Fibrous					
		Bound					
06 B183109	Roofing Tar	Heterogeneous	5%	Cellulose	80%	Tar	None Detected
		Black			15%	Silicates	
		Fibrous					
		Bound					
07 B183110	Roofing Paper	Heterogeneous	40%	Cellulose	20%	Tar	None Detected
		Black, Tan	40%	Fiberglass			
		Fibrous					
		Bound					
08 B183111	Tar	Heterogeneous	5%	Cellulose	80%	Tar	None Detected
		Black			15%	Silicates	
		Non-fibrous					
		Bound					



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			Fibrous	Non-Fibrous			
09 B183112	Paper	Heterogeneous Tan Fibrous Bound	100%	Cellulose			None Detected
10 B183113	Roofing Tar	Heterogeneous Black Fibrous Bound	10%	Cellulose	80% 10%	Tar Silicates	None Detected
11 B183114	Roofing Paper	Heterogeneous Black Fibrous Bound	60%	Cellulose	30% 10%	Tar Silicates	None Detected
12 B183115	Perlite	Heterogeneous Brown Fibrous Bound	50%	Cellulose	30% 20%	Perlite Binder	None Detected
13 B183116	Roofing Tar	Heterogeneous Black Fibrous Bound	10% 20%	Cellulose Fiberglass	60% 10%	Tar Silicates	None Detected
14 B183117	Roofing Paper	Heterogeneous Tan,Black Fibrous Bound	40%	Cellulose	60%	Tar	None Detected
15 B183118	Tar	Heterogeneous Black Fibrous Bound	10%	Cellulose	88%	Tar	2% Chrysotile



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ASBESTOS BULK PLM, EPA 600 METHOD

Client ID Lab ID	Lab Description	Lab Attributes	NON-ASBESTOS COMPONENTS			ASBESTOS %
			Fibrous		Non-Fibrous	
16 B183119	Felt Paper	Heterogeneous Black Fibrous Bound	10% 40%	Cellulose Fiberglass	50% Tar	None Detected
17 B183120	Tar	Heterogeneous Black Fibrous Bound	10% 40%	Cellulose Fiberglass	50% Tar	None Detected
18 B183121	Tar	Heterogeneous Gray Fibrous Bound	10%	Cellulose	85% Tar	5% Chrysotile
19 B183122	Rolled Roofing	Heterogeneous Gray Fibrous Bound	10% 20%	Cellulose Fiberglass	60% 10% Tar Gravel	None Detected
20 B183123	Tar	Heterogeneous Black Fibrous Bound	20% 20%	Cellulose Fiberglass	60% Tar	None Detected
21 B183124	Paper	Heterogeneous Black Fibrous Bound	60% 10%	Cellulose Fiberglass	30% Tar	None Detected
22 B183125	Tar	Heterogeneous Black Fibrous Bound	10% 10%	Cellulose Fiberglass	70% 10% Tar Silicates	None Detected



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ASBESTOS BULK PLM, EPA 600 METHOD

Client ID Lab ID	Lab Description	Lab Attributes	NON-ASBESTOS COMPONENTS				ASBESTOS %
			Fibrous		Non-Fibrous		
23 B183126	Felt Paper	Heterogeneous Black Fibrous Bound	50%	Cellulose 20% Fiberglass	30%	Tar	None Detected
24 B183127	Perlite	Heterogeneous Brown Fibrous Bound	50%	Cellulose	40%	Perlite 10% Binder	None Detected
25 B183128	Tar	Heterogeneous Black Fibrous Bound	10%	Cellulose	90%	Tar	None Detected
26 B183129	Felt Paper	Heterogeneous Black Fibrous Bound	50%	Cellulose	40%	Tar 10% Silicates	None Detected



LEGEND: Non-Anth = Non-Asbestiform Anthophyllite
 Non-Trem = Non-Asbestiform Tremolite
 Calc Carb = Calcium Carbonate

METHOD: EPA 600 / R93 / 116 and EPA 600 / M4-82 / 020

LIMIT OF DETECTION: <1% by visual estimation

REGULATORY LIMIT: >1% by weight

Due to the limitations of the EPA 600 method, nonfriable organically bound materials (NOBs) such as vinyl floor tiles can be difficult to analyze via polarized light microscopy (PLM). EPA recommends that all NOBs analyzed by PLM, and found not to contain asbestos, be further analyzed by Transmission Electron Microscopy (TEM). Please note that PLM analysis of dust and soil samples for asbestos is not covered under NVLAP accreditation.

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ANALYST: Mikaela Batta
Mikaela Batta

APPROVED BY: Tianbao Bai
Tianbao Bai, Ph.D., CIH
Laboratory Director

Gary A. Swanson
Gary A. Swanson

