

# A&A

## ENVIRONMENTAL SERVICES

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P.O. Box 708 • Poynette, WI 53955  
Phone: (608) 240-1511 • Email: Office@aaenv.com • Fax: (608) 635-9717  
**RESULTS**

November 22, 2016

David C. Schaller  
City of Madison  
215 Martin Luther King Jr. Blvd, Room 115  
Madison, WI 53703  
(608) 243-5891, Fax (608) 264-9275


RE: 1301 West Badger Road, Madison, WI

On November 14 2016 fourteen bulk samples were collected of roofing from the upper and lower roofs of the Library Support Center located at 1301 West Badger Road in Madison, WI. The lower roof samples consisted of six layers of tar and felt paper and four layers of roofing materials on the side flashing. The upper samples consisted of four layers of roofing tar and felt paper.

The bulk samples were analyzed for asbestos content by polarized light microscopy (PLM). All samples were reported as no asbestos detected.

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

Sincerely,

  
Kim Sopha  
Project Manager/Inspector #AII01851

Encl

KAS/bls



November 11, 2016

A & A Environmental Services  
PO Box 708  
Poynette, WI 53955

**CLIENT PROJECT:** 1301 West Badger Rd; AA 65  
**CEI LAB CODE:** A16-9569

Dear Customer:

Enclosed are asbestos analysis results for PLM Bulk samples received at our laboratory on November 8, 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





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**ASBESTOS ANALYTICAL REPORT**  
**By: Polarized Light Microscopy**

Prepared for

**A & A Environmental Services**

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CLIENT PROJECT: 1301 West Badger Rd; AA 65

CEI LAB CODE: A16-9569

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

REPORT DATE: 11/11/16

TOTAL SAMPLES ANALYZED: 14

# SAMPLES >1% ASBESTOS:

TOTAL LAYERS ANALYZED: 14

**TEL: 866-481-1412**

*www.ceilabs.com*



# Asbestos Report Summary

By: POLARIZING LIGHT MICROSCOPY

PROJECT: 1301 West Badger Rd; AA 65

CEI LAB CODE: A16-9569

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

Client ID	Layer	Lab ID	Color	Sample Description	ASBESTOS %
96		A2261640	Black	Top Layer Roofing Felt	None Detected
97		A2261641	Black	Top Layer Tar	None Detected
98		A2261642	Black	Fiberglass Tarpaper	None Detected
99		A2261643	Black	Bottom Layer Roofing Paper	None Detected
100		A2261644	Black	Bottom Layer Tar	None Detected
101		A2261645	Black	Bottom Layer Tar	None Detected
102		A2261646	Black	Tar	None Detected
103		A2261647	Gray	Roof Cap Caulking	None Detected
104		A2261648	Gray	Flashing	None Detected
105		A2261649	Gray	Roof Cap Caulking	None Detected
106		A2261650	Black	Top Layer Roofing Felt	None Detected
107		A2261651	Black	Top Layer Roofing Tar	None Detected
108		A2261652	Black	Tarpaper	None Detected
109		A2261653	Black	Tar	None Detected



# ASBESTOS BULK ANALYSIS

By: POLARIZING LIGHT MICROSCOPY

**Client:** A & A Environmental Services  
 PO Box 708  
 Poynette, WI 53955

**CEI Lab Code:** A16-9569  
**Date Received:** 11-08-16  
**Date Analyzed:** 11-10-16  
**Date Reported:** 11-11-16

**Project:** 1301 West Badger Rd; AA 65

## ASBESTOS BULK PLM, EPA 600 METHOD

Client ID Lab ID	Lab Description	Lab Attributes	NON-ASBESTOS COMPONENTS			ASBESTOS %	
			Fibrous	Non-Fibrous			
<b>96</b> A2261640	Top Layer Roofing Felt	Heterogeneous Black Fibrous Bound	20%	Synthetic Fiber	80%	Tar	None Detected
<b>97</b> A2261641	Top Layer Tar	Heterogeneous Black Non-fibrous Bound			100%	Tar	None Detected
<b>98</b> A2261642	Fiberglass Tarpaper	Heterogeneous Black Fibrous Bound	15% 5%	Fiberglass Cellulose	80%	Tar	None Detected
<b>99</b> A2261643	Bottom Layer Roofing Paper	Heterogeneous Black Fibrous Bound	15%	Fiberglass	85%	Tar	None Detected
<b>100</b> A2261644	Bottom Layer Tar	Heterogeneous Black Fibrous Bound	5%	Fiberglass	95%	Tar	None Detected
<b>101</b> A2261645	Bottom Layer Tar	Heterogeneous Black Fibrous Bound	5%	Fiberglass	95%	Tar	None Detected
<b>102</b> A2261646	Tar	Heterogeneous Black Non-fibrous Bound	<1%	Fiberglass	100%	Tar	None Detected



# ASBESTOS BULK ANALYSIS

By: POLARIZING LIGHT MICROSCOPY

**Client:** A & A Environmental Services  
 PO Box 708  
 Poynette, WI 53955

**CEI Lab Code:** A16-9569  
**Date Received:** 11-08-16  
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**Project:** 1301 West Badger Rd; AA 65

## ASBESTOS BULK PLM, EPA 600 METHOD

Client ID Lab ID	Lab Description	Lab Attributes	NON-ASBESTOS COMPONENTS			ASBESTOS %	
			Fibrous	Non-Fibrous			
<b>103</b> A2261647	Roof Cap Caulking	Heterogeneous	90%	Caulk	None Detected		
		Gray	10%	Binder			
		Non-fibrous					
		Bound					
<b>104</b> A2261648	Flashing	Heterogeneous	90%	Caulk	None Detected		
		Gray	10%	Binder			
		Non-fibrous					
		Bound					
<b>105</b> A2261649	Roof Cap Caulking	Heterogeneous	90%	Caulk	None Detected		
		Gray	10%	Binder			
		Non-fibrous					
		Bound					
<b>106</b> A2261650	Top Layer Roofing Felt	Heterogeneous	20%	Synthetic Fiber	80%	Tar	None Detected
		Black					
		Fibrous					
		Bound					
<b>107</b> A2261651	Top Layer Roofing Tar	Heterogeneous	5%	Fiberglass	95%	Tar	None Detected
		Black					
		Fibrous					
		Bound					
<b>108</b> A2261652	Tarpaper	Heterogeneous	10%	Fiberglass	85%	Tar	None Detected
		Black	5%	Cellulose			
		Fibrous					
		Bound					
<b>109</b> A2261653	Tar	Heterogeneous	5%	Fiberglass	95%	Tar	None Detected
		Black					
		Fibrous					
		Bound					



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

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

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**LIMIT OF DETECTION:** <1% by visual estimation

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**REGULATORY LIMIT:** >1% by weight

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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.

This report relates only to the samples tested or analyzed and may not be reproduced, except in full, without written approval by CEI Labs, Inc. CEI Labs makes no warranty representation regarding the accuracy of client submitted information in preparing and presenting analytical results. Interpretation of the analytical results is the sole responsibility of the client. This report may not be used by the client to claim product endorsement by NVLAP or any other agency of the U.S. Government.

**ANALYST:** *Samantha Card*  
Samantha Card

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

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