



ASBESTOS LABORATORY REPORT

Prepared for

Applied Ecosystems

PROJECT: Holland Ave.

CEI LAB CODE: A14-7919

DATE ANALYZED: 06/17/14

DATE REPORTED: 06/18/14

TOTAL SAMPLES ANALYZED: 35

SAMPLES >1% ASBESTOS: 1

TEL: 866-481-1412

www.ceilabs.com



Asbestos Report Summary

By: POLARIZING LIGHT MICROSCOPY

PROJECT: Holland Ave.

CEI LAB CODE: A14-7919

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

Client ID	Layer	Lab ID	Color	Sample Description	ASBESTOS %
1A		A1743521	Off-white	Ceiling Tile	None Detected
1B		A1743522	Off-white	Ceiling Tile	None Detected
1C		A1743523	Off-white	Ceiling Tile	None Detected
1D		A1743524	Off-white	Ceiling Tile	None Detected
1E		A1743525	Off-white	Ceiling Tile	None Detected
2A		A1743526	Black,Brown	Base Cove	None Detected
2B		A1743527A	Black,Brown	Base Cove	None Detected
		A1743527B	Yellow	Mastic	None Detected
2C		A1743528A	Black,Brown	Base Cove	None Detected
		A1743528B	Yellow	Mastic	None Detected
2D		A1743529A	Black,Brown	Base Cove	None Detected
		A1743529B	Yellow	Mastic	None Detected
2E		A1743530A	Black,Brown	Base Cove	None Detected
		A1743530B	Yellow	Mastic	None Detected
3A		A1743531A	Tan	Floor Tile	Chrysotile 2%
		A1743531B	Black	Mastic	None Detected
3B		A1743532A		Sample Not Analyzed per COC	
		A1743532B	Black	Mastic	None Detected
3C		A1743533A		Sample Not Analyzed per COC	
		A1743533B	Black	Mastic	None Detected
3D		A1743534A		Sample Not Analyzed per COC	
		A1743534B	Black	Mastic	None Detected
3E		A1743535A		Sample Not Analyzed per COC	
		A1743535B	Black	Mastic	None Detected
4A		A1743536	Gray	Caulk	None Detected
4B		A1743537	Gray	Caulk	None Detected
4C		A1743538	Gray	Caulk	None Detected
4D		A1743539	Gray	Caulk	None Detected
4E		A1743540	Gray	Caulk	None Detected
5A		A1743541	Off-white	Drywall	None Detected
5B		A1743542	Off-white	Drywall	None Detected



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Client ID	Layer	Lab ID	Color	Sample Description	ASBESTOS %
5C		A1743543	Off-white	Drywall	None Detected
5D		A1743544	Off-white	Drywall	None Detected
5E		A1743545	Off-white	Drywall	None Detected
6A		A1743546A	Gray	Base Cove	None Detected
		A1743546B	Tan,Black	Mastic	None Detected
6B		A1743547A	Gray	Base Cove	None Detected
		A1743547B	Tan,Black	Mastic	None Detected
6C		A1743548A	Gray	Base Cove	None Detected
		A1743548B	Tan,Black	Mastic	None Detected
6D		A1743549A	Gray	Base Cove	None Detected
		A1743549B	Tan,Black	Mastic	None Detected
6E		A1743550A	Gray	Base Cove	None Detected
		A1743550B	Tan,Black	Mastic	None Detected
7A		A1743551	Dark Grey	Decoupler	None Detected
7B		A1743552	Dark Grey	Decoupler	None Detected
7C		A1743553	Dark Grey	Decoupler	None Detected
7D		A1743554	Dark Grey	Decoupler	None Detected
7E		A1743555	Dark Grey	Decoupler	None Detected



ASBESTOS BULK ANALYSIS

By: POLARIZING LIGHT MICROSCOPY

Client: Applied Ecosystems
 G-4300 South Saginaw Street
 Burton, MI 48529

CEI Lab Code: A14-7919
Date Received: 06-17-14
Date Analyzed: 06-17-14
Date Reported: 06-18-14

Project: Holland Ave.

ASBESTOS BULK PLM, EPA 600 METHOD

Client ID Lab ID	Lab Description	Lab Attributes	NON-ASBESTOS COMPONENTS				ASBESTOS %
			Fibrous		Non-Fibrous		
1A A1743521	Ceiling Tile	Heterogeneous	65%	Cellulose	15%	Perlite	None Detected
		Off-white	15%	Fiberglass	5%	Paint	
		Fibrous					
		Loosely Bound					
1B A1743522	Ceiling Tile	Heterogeneous	65%	Cellulose	15%	Perlite	None Detected
		Off-white	15%	Fiberglass	5%	Paint	
		Fibrous					
		Loosely Bound					
1C A1743523	Ceiling Tile	Heterogeneous	65%	Cellulose	15%	Perlite	None Detected
		Off-white	15%	Fiberglass	5%	Paint	
		Fibrous					
		Loosely Bound					
1D A1743524	Ceiling Tile	Heterogeneous	65%	Cellulose	15%	Perlite	None Detected
		Off-white	15%	Fiberglass	5%	Paint	
		Fibrous					
		Loosely Bound					
1E A1743525	Ceiling Tile	Heterogeneous	65%	Cellulose	15%	Perlite	None Detected
		Off-white	15%	Fiberglass	5%	Paint	
		Fibrous					
		Loosely Bound					
2A A1743526	Base Cove	Heterogeneous			100%	Vinyl	None Detected
		Black,Brown					
		Non-fibrous					
		Tightly Bound					
Lab Notes: No mastic present.							
2B A1743527A	Base Cove	Heterogeneous			100%	Vinyl	None Detected
		Black,Brown					
		Non-fibrous					
		Tightly Bound					



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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	
A1743527B	Mastic	Homogeneous Yellow Non-fibrous Tightly Bound	100%	Mastic	None Detected
2C A1743528A	Base Cove	Heterogeneous Black,Brown Non-fibrous Tightly Bound	100%	Vinyl	None Detected
A1743528B	Mastic	Homogeneous Yellow Non-fibrous Tightly Bound	100%	Mastic	None Detected
2D A1743529A	Base Cove	Heterogeneous Black,Brown Non-fibrous Tightly Bound	100%	Vinyl	None Detected
A1743529B	Mastic	Homogeneous Yellow Non-fibrous Tightly Bound	100%	Mastic	None Detected
2E A1743530A	Base Cove	Heterogeneous Black,Brown Non-fibrous Tightly Bound	100%	Vinyl	None Detected
A1743530B	Mastic	Homogeneous Yellow Non-fibrous Tightly Bound	100%	Mastic	None Detected



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Client ID Lab ID	Lab Description	Lab Attributes	NON-ASBESTOS COMPONENTS				ASBESTOS %
			Fibrous		Non-Fibrous		
3A A1743531A	Floor Tile	Homogeneous Tan Non-fibrous Tightly Bound	98%		Vinyl		2% Chrysotile
A1743531B	Mastic	Homogeneous Black Non-fibrous Tightly Bound	5%	Cellulose	95%	Mastic	None Detected
3B A1743532A	Sample Not Analyzed per COC						
A1743532B	Mastic	Homogeneous Black Non-fibrous Tightly Bound	5%	Cellulose	95%	Mastic	None Detected
3C A1743533A	Sample Not Analyzed per COC						
A1743533B	Mastic	Homogeneous Black Non-fibrous Tightly Bound	5%	Cellulose	95%	Mastic	None Detected
3D A1743534A	Sample Not Analyzed per COC						
A1743534B	Mastic	Homogeneous Black Non-fibrous Tightly Bound	5%	Cellulose	95%	Mastic	None Detected
3E A1743535A	Sample Not Analyzed per COC						



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Client ID Lab ID	Lab Description	Lab Attributes	NON-ASBESTOS COMPONENTS			ASBESTOS %	
			Fibrous		Non-Fibrous		
A1743535B	Mastic	Homogeneous Black Non-fibrous Tightly Bound	5%	Cellulose	95%	Mastic	None Detected
4A A1743536	Caulk	Heterogeneous Gray Non-fibrous Bound			85%	Caulk	None Detected
					10%	Binder	
					5%	Paint	
4B A1743537	Caulk	Heterogeneous Gray Non-fibrous Bound			85%	Caulk	None Detected
					10%	Binder	
					5%	Paint	
4C A1743538	Caulk	Heterogeneous Gray Non-fibrous Bound			85%	Caulk	None Detected
					10%	Binder	
					5%	Paint	
4D A1743539	Caulk	Heterogeneous Gray Non-fibrous Bound			85%	Caulk	None Detected
					10%	Binder	
					5%	Paint	
4E A1743540	Caulk	Heterogeneous Gray Non-fibrous Bound			85%	Caulk	None Detected
					10%	Binder	
					5%	Paint	
5A A1743541	Drywall	Heterogeneous Off-white Fibrous Loosely Bound	50%	Cellulose	50%	Gypsum	None Detected

Lab Notes: No mud compound present.



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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		
5B A1743542	Drywall	Heterogeneous Off-white Fibrous Loosely Bound	50%	Cellulose	50%	Gypsum	None Detected
Lab Notes: No mud compound present.							
5C A1743543	Drywall	Heterogeneous Off-white Fibrous Loosely Bound	50%	Cellulose	50%	Gypsum	None Detected
Lab Notes: No mud compound present.							
5D A1743544	Drywall	Heterogeneous Off-white Fibrous Loosely Bound	50%	Cellulose	50%	Gypsum	None Detected
Lab Notes: No mud compound present.							
5E A1743545	Drywall	Heterogeneous Off-white Fibrous Loosely Bound	50%	Cellulose	50%	Gypsum	None Detected
Lab Notes: No mud compound present.							
6A A1743546A	Base Cove	Homogeneous Gray Non-fibrous Tightly Bound			100%	Vinyl	None Detected
A1743546B	Mastic	Heterogeneous Tan,Black Non-fibrous Tightly Bound			90%	Mastic	None Detected
					10%	Paint	None Detected



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Client ID Lab ID	Lab Description	Lab Attributes	NON-ASBESTOS COMPONENTS		ASBESTOS %
			Fibrous	Non-Fibrous	
6B A1743547A	Base Cove	Homogeneous Gray Non-fibrous Tightly Bound	100%	Vinyl	None Detected
A1743547B	Mastic	Heterogeneous Tan,Black Non-fibrous Tightly Bound	90% 10%	Mastic Paint	None Detected
6C A1743548A	Base Cove	Homogeneous Gray Non-fibrous Tightly Bound	100%	Vinyl	None Detected
A1743548B	Mastic	Heterogeneous Tan,Black Non-fibrous Tightly Bound	90% 10%	Mastic Paint	None Detected
6D A1743549A	Base Cove	Homogeneous Gray Non-fibrous Tightly Bound	100%	Vinyl	None Detected
A1743549B	Mastic	Heterogeneous Tan,Black Non-fibrous Tightly Bound	90% 10%	Mastic Paint	None Detected
6E A1743550A	Base Cove	Homogeneous Gray Non-fibrous Tightly Bound	100%	Vinyl	None Detected



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Client ID Lab ID	Lab Description	Lab Attributes	NON-ASBESTOS COMPONENTS				ASBESTOS %
			Fibrous		Non-Fibrous		
A1743550B	Mastic	Heterogeneous Tan,Black Non-fibrous Tightly Bound	90%	Mastic	10%	Paint	None Detected
7A A1743551	Decoupler	Homogeneous Dark Grey Fibrous Tightly Bound	25%	Fiberglass	75%	Binder	None Detected
7B A1743552	Decoupler	Homogeneous Dark Grey Fibrous Tightly Bound	25%	Fiberglass	75%	Binder	None Detected
7C A1743553	Decoupler	Homogeneous Dark Grey Fibrous Tightly Bound	25%	Fiberglass	75%	Binder	None Detected
7D A1743554	Decoupler	Homogeneous Dark Grey Fibrous Tightly Bound	25%	Fiberglass	75%	Binder	None Detected
7E A1743555	Decoupler	Homogeneous Dark Grey Fibrous Tightly Bound	25%	Fiberglass	75%	Binder	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

The detection limit for the method is <1% by visual estimation and 0.25% by 400 point counts or 0.1% by 1,000 point counts.

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 polarizing 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.

CEI Labs, Inc. can perform positive stop analysis if requested by customer. However, it is the responsibility of the customer to determine if the samples grouped together are in fact the same type of material and belong to the same homogeneous area.

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ANALYST: 
Susannah Small

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





107 New Edition Court, Cary, NC 27511
 Tel: 866-481-1412; Fax: 919-481-1442

ASBESTOS CHAIN OF CUSTODY

LAB USE ONLY:	
CEI Lab Code:	A14-7919 (35)
CEI Lab I.D. Range:	A1743 521-A 1743 555

COMPANY INFORMATION	PROJECT INFORMATION
CEI CLIENT #:1305	Job Contact:Mike Smith
Company:Applied Ecosystems	Email / Tel: ae-mds@yahoo.com
Address:G-4300 South Saginaw Street	Project Name: HOLLAND AVE
Burton, MI 48529	Project ID#
Email:msmith@appliedecosystems.com	PO #:
Tel:810-715-2525 Fax:	STATE SAMPLES COLLECTED IN: MI

GENERAL INSTRUCTIONS		
POSITIVE STOP ANALYSIS	<input checked="" type="checkbox"/>	PLM DUE DATE: / /
ANALYZE NOB'S BY TEM	<input type="checkbox"/>	TEM DUE DATE: / /

IF TAT IS NOT MARKED STANDARD 3 DAY TAT APPLIES.

ASBESTOS	METHOD	TURN AROUND TIME					
		4 HR	8 HR	24 HR	2 DAY	3 DAY	5 DAY
PLM BULK	EPA 600	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
PLM POINT COUNT (400)	EPA 600	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
PLM POINT COUNT (1000)	EPA 600	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
PLM GRAV w POINT COUNT	EPA 600	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
PCM AIR	NIOSH 7400	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
TEM AIR AHERA	EPA AHERA	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
TEM AIR NIOSH	NIOSH 7402	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
TEM BULK	CHATFIELD	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
TEM DUST WIPE	ASTM D6480-05	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
TEM DUST MICROVAC	ASTM D5755-09	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
TEM SOIL	ASTM D7521-13	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
TEM VERMICULITE	CINCINNATI METHOD	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
OTHER:		<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

REMARKS:		<input checked="" type="checkbox"/> Accept Samples
		<input type="checkbox"/> Reject Samples
Relinquished By:	Date/Time	Received By:
<i>M Smith</i>	6/12/14	<i>Gm</i>
		Date/Time
		6/17/14 11:20a

Samples will be disposed of 30 days after analysis

