

Angstrom Environmental,  
Earth & Building Sciences, LLC

November 18, 2014

Mr. Steve Phelps  
Precision Environmental Services, Inc.  
831 New York Route 67  
Ballston Spa, NY 12020

**Re: Limited Asbestos Soil and Surficial Material Sampling Project  
Katzman Site  
Church Street (Route 26), Granville, New York  
Angstrom Project Number: A1413**

Dear Mr. Phelps:

Per your request, Angstrom Environmental, Earth & Building Sciences, LLC (Angstrom) sampled surficial soil and surface material at the Katzman Site, located on Church Street (Route 26) in Granville, New York (lat/long 43.393432, -73.260630). The sampling was limited to the area outlined on a photo-image map presented to Angstrom by your office. As we understand it, material was incinerated at the site and there was a concern that asbestos would be present in the soils and ashes throughout the site. The sampling was completed on November 7<sup>th</sup> & 8<sup>th</sup>, 2014. Attachments to this report include a site sketch illustrating sampling locations and laboratory results.

### **Summary**

Angstrom's inspector collected 36 representative samples of the soil and surficial material, plus two additional grab samples. The grab samples were suspected of containing asbestos. One of the grab samples was obtained from an area with several pieces of cement asbestos board on the surface. Of the 36 representative soil and surficial material samples, none contained detectable asbestos. The grab sample that contained cement asbestos board (sample L4,3Grab) contained 11% chrysotile and was the only sample that contained detectable asbestos. Angstrom recommends the asbestos be removed by a licensed abatement contractor prior to excavation work near the material.

### **Field Activities**

Angstrom representative Curtis Cappellano (NYS DOL Asbestos Inspector # AH 90-02690) completed the sampling on November 7<sup>th</sup> & 8<sup>th</sup>, 2014. The samples were delivered under chain-of-custody procedures to Eastern Analytical Services' New York State

Department of Health, Environmental Laboratory Approval Program (NYS-ELAP) accredited laboratory located in Elmsford, New York.

The general surficial soil and surface material consisted of soil, ash, stone, and metal slag, with some mix of paper, fibrous glass, and synthetic material. Ash and metal were abundant throughout the site. Angstrom collected samples in a 25' grid pattern across the property. The sampling plan was to establish eight sight lines across the site, and samples were collected approximately every twenty-five feet along the sight line. The samples were collected from about a 3' radius around the grid point (about an arm's length in any direction). The sampling point was marked on the ground surface by marking paint in case a future survey would be required. Additionally, the ground surface was traversed to look for suspicious material between sampling points.

Representative soil and surficial materials were placed in gallon-sized ziplock bags for laboratory analysis. A grab sample was obtained from line 4 that was located in-between grid points and was identified as sample L4,3Grab. Sample L4,3Grab contained cement asbestos board and was obtained from a small 10'x10' area. The transite was composed of larger sized broken transite pieces. There did not appear to be any buried transite and the transite pieces were laying on the ground surface.

### **Summary of Asbestos Containing Sample Results**

**Table 1**  
**Summary of Asbestos Containing Material - Results in Percent Asbestos**

<b>Sample No.</b>	<b>Material</b>	<b>Description</b>	<b>Approx Quantity</b>	<b>% Asbestos</b>
L4,3Grab	CEMENT ASBESTOS BOARD	LINE 4, NEAR SAMPLE 3, 10'X10' AREA	< 25 SF	11.1% CHRYBOTILE

### **Conclusions**

Based on the sampling results, there does not appear to be evidence of asbestos that has been disposed of in the surficial soil and ash at the site. The asbestos found in sample L4,3Grab appears to be from a surface placement of cement asbestos board in one small area.

### **Recommendations**

Based on the results of the laboratory analysis from the collected samples, asbestos-containing materials were identified as listed in Table 1. Angstrom recommends the cement asbestos board pieces be removed by a licenced abatement contractor prior to excavations at the site. Also, Angstrom recommends a licenced asbestos inspector be available during future excavations to monitor the waste stream for potential asbestos material.

**Closing**

Angstrom completed a limited asbestos sampling and analysis project for the above referenced site. The survey was limited to the area specified by Precision Environmental, did not include the entire site, and was not intended to be a comprehensive survey of the entire site's surface and subsurface. Additional sampling of the incinerator building will be provided in a separate report. It should be noted that reliance or use of this report by third parties other than the client does not make such parties a beneficiary to Angstrom's contract with the client. If you have any questions or require follow-up work, please don't hesitate to call us at 330-7732.

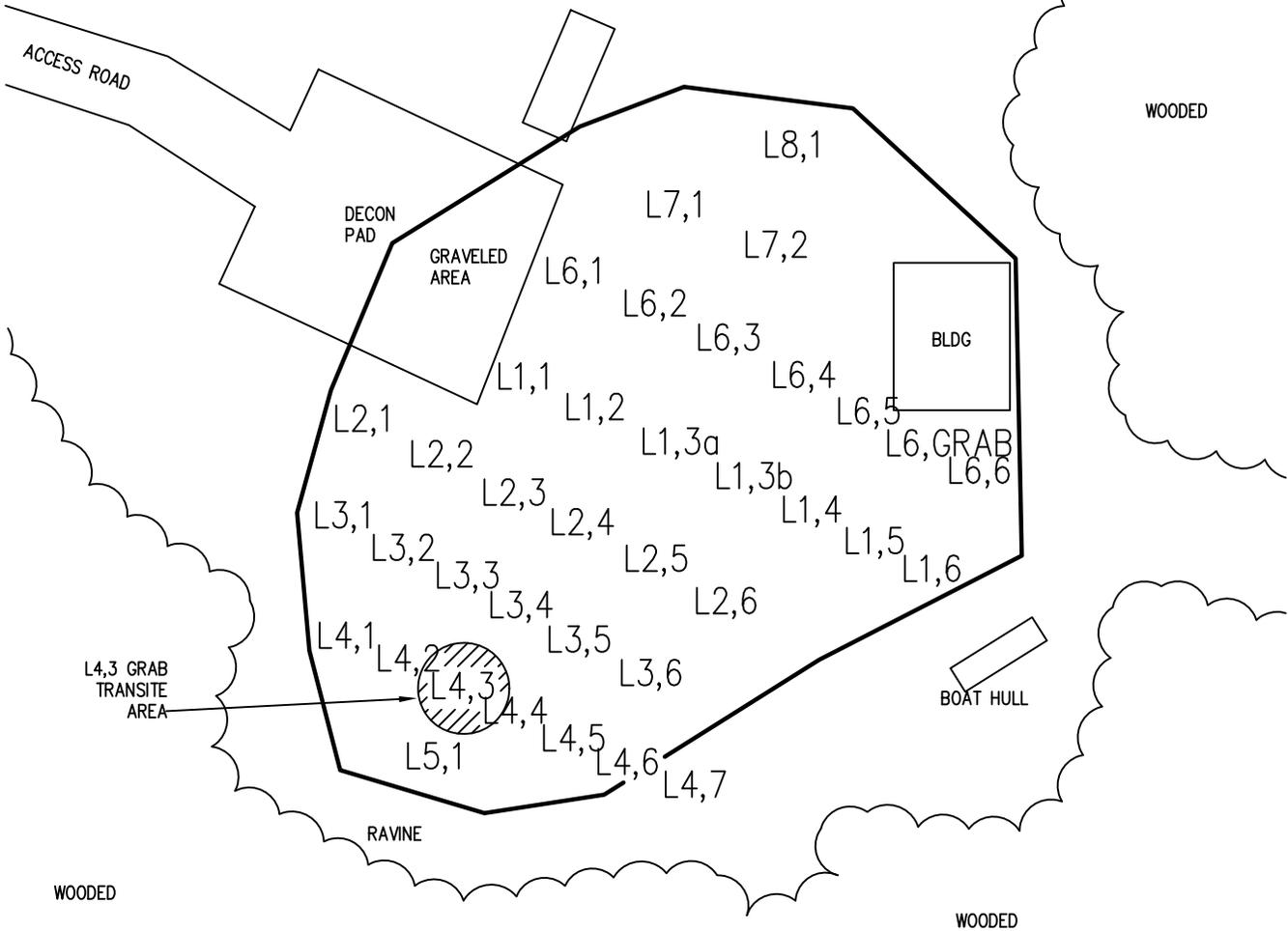
Respectively submitted,  
Angstrom Environmental, Earth & Building Sciences, LLC



Curtis J. Cappellano, CPG  
Sr. Environmental Geologist  
& Asbestos Inspector

Attachments:        Site Sketch  
                             Photo Near L4,3Grab  
                             Laboratory Analytical Results  
                             Licenses and Credentials

APPROXIMATE



KEY

	SURVEY BOUNDARY
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NOTES:  
 SAMPLED SURFACE SOIL & DEBRIS AT 25' SPACINGS IN 8 LINES ACROSS THE SITE.  
 L1,1 REPRESENTS LINE 1, SAMPLE 1

PROJECT: KATZMAN SITE	ANGSTROM ENVIRONMENTAL	 <b>ANGSTROM ENVIRONMENTAL</b>	FIGURE NUMBER: 1	
LOCATION: GRANVILLE, NY	2 BUDD LANE, SUITE 1		REVISION:	DATE:
TITLE: SAMPLE LOCATION MAP	E GREENBUSH, NY 12061			
DATE: 11/8/14	PH. 518-330-7732			
DRAWN BY: C. CAPPELLANO	CURTIS@ANGSTROMENVIRONMENTAL.COM			
SCALE: NOT TO SCALE				





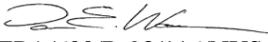
Area near sample L4,3Grab. Transite pieces.



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## Bulk Sample Results

RE: CPN A1413 - Katzman Site

Date Collected : 11/07/2014  
 Collected By : Curtis J. Cappellano, Jr.  
 Date Received : 11/11/2014  
 Date Analyzed : 11/12/2014  
 Analyzed By : Damien Warner  
 Signature :   
 Analytical Method : EPA/600/R-93/116/NYS-DOH 198.1 (PLM)  
 NVLAP Lab No. 101646-0  
 NYS Lab No. 10851

Client: Angstrom Environmental, Earth & Bldg Sciences, LLC  
 2 Budd Lane, Suite 1  
 East Greenbush, NY 12061

Sample ID Number	L1,1	L1,2	L1,3A	L1,3B
Layer Number				
Lab ID Number	2326152	2326153	2326154	2326155
Sample Location	Line 1, 25' Spacings/Grid	Line 1, 25' Spacings/Grid	Line 1, 25' Spacings/Grid	Line 1, 25' Spacings/Grid
Sample Description	Soil & Debris - Brown			
Method of Quantification	Visual Estimation	Visual Estimation	Visual Estimation	Visual Estimation
Appearance				
Layered	No	No	No	No
Homogenous	No	No	No	No
Fibrous	No	No	No	Yes
Color	Black/White	Black/Gray	Black	Gray
Sample Treatment	Homogenized	Homogenized	Homogenized	Homogenized
Asbestos				
Content	% Amosite 0.0	0.0	0.0	0.0
	% Chrysotile 0.0	0.0	0.0	0.0
	% Other 0.0	0.0	0.0	0.0
	% Total Asbestos 0.0	0.0	0.0	0.0
Other Fibrous				
Materials	% Fibrous Glass 2.0	4.0	3.0	5.0
Present	% Cellulose 3.0	1.0	2.0	0.0
	% Other 0.0	0.0	0.0	15.0 Synthetics
	% Unidentified 0.0	0.0	0.0	0.0
Non-Fibrous				
Materials	% Silicates 30.0	30.0	25.0	30.0
Present	% Carbonates 5.0	5.0	5.0	0.0
	% Other 0.0	0.0	0.0	0.0
	% Unidentified 60.0	60.0	65.0	50.0

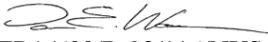
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 NYS Lab No. 10851

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 East Greenbush, NY 12061

Sample ID Number	L1,4	L1,5	L1,6	L2,1
Layer Number				
Lab ID Number	2326156	2326157	2326158	2326159
Sample Location	Line 1, 25' Spacings/Grid	Line 1, 25' Spacings/Grid	Line 1, 25' Spacings/Grid	Line 2
Sample Description	Soil & Debris - Brown	Soil & Debris - Brown	Soil & Debris - Brown	Soil & Debris - Brown
Method of Quantification	Visual Estimation	Visual Estimation	Visual Estimation	Visual Estimation
Appearance				
Layered	No	No	No	No
Homogenous	No	No	No	No
Fibrous	No	Yes	Yes	No
Color	Black/White	Black/White	Black/White	Black
Sample Treatment	Homogenized	Homogenized	Homogenized	Homogenized
Asbestos				
Content				
% Amosite	0.0	0.0	0.0	0.0
% Chrysotile	0.0	0.0	0.0	0.0
% Other	0.0	0.0	0.0	0.0
% Total Asbestos	0.0	0.0	0.0	0.0
Other Fibrous				
Materials				
Present				
% Fibrous Glass	2.0	2.0	10.0	3.0
% Cellulose	1.0	3.0	2.0	< 1.0
% Other	0.0	0.0	0.0	0.0
% Unidentified	0.0	0.0	0.0	0.0
Non-Fibrous				
Materials				
Present				
% Silicates	35.0	35.0	40.0	10.0
% Carbonates	5.0	5.0	0.0	5.0
% Other	0.0	0.0	0.0	0.0
% Unidentified	57.0	55.0	48.0	82.0

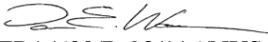
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 Analyzed By : Damien Warner  
 Signature :   
 Analytical Method : EPA/600/R-93/116/NYS-DOH 198.1 (PLM)  
 NVLAP Lab No. 101646-0  
 NYS Lab No. 10851

Client: Angstrom Environmental, Earth & Bldg Sciences, LLC  
 2 Budd Lane, Suite 1  
 East Greenbush, NY 12061

Sample ID Number	L2,2	L2,3	L2,4	L2,5
Layer Number				
Lab ID Number	2326160	2326161	2326162	2326163
Sample Location	Line 2	Line 2	Line 2	Line 2
Sample Description	Soil & Debris - Brown	Soil & Debris - Brown	Soil & Debris - Gray	Soil & Debris - Brown
Method of Quantification	Visual Estimation	Visual Estimation	Visual Estimation	Visual Estimation
Appearance				
Layered	No	No	No	No
Homogenous	No	No	No	No
Fibrous	No	No	No	No
Color	Black/White	Black/White	Gray	Black/White
Sample Treatment	Homogenized	Homogenized	Homogenized	Homogenized
Asbestos				
% Amosite	0.0	0.0	0.0	0.0
Content				
% Chrysotile	0.0	0.0	0.0	0.0
% Other	0.0	0.0	0.0	0.0
% Total Asbestos	0.0	0.0	0.0	0.0
Other Fibrous				
% Fibrous Glass	5.0	2.0	5.0	3.0
Materials				
% Cellulose	0.0	3.0	< 1.0	2.0
Present				
% Other	0.0	0.0	0.0	0.0
% Unidentified	0.0	0.0	0.0	0.0
Non-Fibrous				
% Silicates	10.0	25.0	15.0	10.0
Materials				
% Carbonates	10.0	5.0	5.0	5.0
Present				
% Other	0.0	0.0	0.0	0.0
% Unidentified	75.0	65.0	75.0	80.0

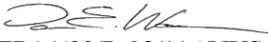
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 NVLAP Lab No. 101646-0  
 NYS Lab No. 10851

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 2 Budd Lane, Suite 1  
 East Greenbush, NY 12061

Sample ID Number	L2,6	L3,1	L3,2	L3,3
Layer Number				
Lab ID Number	2326164	2326165	2326166	2326167
Sample Location	Line 2	Line 3	Line 3	Line 3
Sample Description	Soil & Debris - Brown			
Method of Quantification	Visual Estimation	Visual Estimation	Visual Estimation	Visual Estimation
Appearance				
Layered	No	No	No	No
Homogenous	No	No	No	No
Fibrous	No	No	No	No
Color	Black/White	Black/White	Black/Beige	Black/Gray
Sample Treatment	Homogenized	Homogenized	Homogenized	Homogenized
Asbestos				
Content				
% Amosite	0.0	0.0	0.0	0.0
% Chrysotile	0.0	0.0	0.0	0.0
% Other	0.0	0.0	0.0	0.0
% Total Asbestos	0.0	0.0	0.0	0.0
Other Fibrous				
Materials Present				
% Fibrous Glass	5.0	2.0	3.0	2.0
% Cellulose	2.0	1.0	< 1.0	3.0
% Other	0.0	0.0	0.0	0.0
% Unidentified	0.0	0.0	0.0	0.0
Non-Fibrous				
Materials Present				
% Silicates	10.0	15.0	10.0	15.0
% Carbonates	10.0	5.0	15.0	10.0
% Other	0.0	0.0	0.0	0.0
% Unidentified	73.0	77.0	72.0	70.0

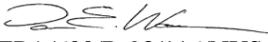
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 NVLAP Lab No. 101646-0  
 NYS Lab No. 10851

Client: Angstrom Environmental, Earth & Bldg Sciences, LLC  
 2 Budd Lane, Suite 1  
 East Greenbush, NY 12061

Sample ID Number	L3,4	L3,5	L3,6	L4,1
Layer Number				
Lab ID Number	2326168	2326169	2326170	2326171
Sample Location	Line 3	Line 3	Line 3	Line 4
Sample Description	Soil & Debris - Brown			
Method of Quantification	Visual Estimation	Visual Estimation	Visual Estimation	Visual Estimation
Appearance				
Layered	No	No	No	No
Homogenous	No	No	No	No
Fibrous	No	No	No	No
Color	Black	Black	Black/White	Black
Sample Treatment	Homogenized	Homogenized	Homogenized	Homogenized
Asbestos Content				
% Amosite	0.0	0.0	0.0	0.0
% Chrysotile	0.0	0.0	0.0	0.0
% Other	0.0	0.0	0.0	0.0
% Total Asbestos	0.0	0.0	0.0	0.0
Other Fibrous Materials Present				
% Fibrous Glass	2.0	3.0	2.0	2.0
% Cellulose	1.0	< 1.0	< 1.0	1.0
% Other	0.0	0.0	0.0	0.0
% Unidentified	0.0	0.0	0.0	0.0
Non-Fibrous Materials Present				
% Silicates	20.0	15.0	15.0	15.0
% Carbonates	5.0	5.0	5.0	5.0
% Other	0.0	0.0	0.0	0.0
% Unidentified	72.0	77.0	78.0	77.0

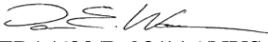
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Sample ID Number	L4,2	L4,3	L4,3GRAB	L4,4
Layer Number				
Lab ID Number	2326172	2326173	2326174	2326175
Sample Location	Line 4	Line 4	Line 4	Line 4
Sample Description	Soil & Debris - Brown	Soil & Debris - Brown	Possible Transite Grab - Gray	Soil & Debris - Brown
Method of Quantification	Visual Estimation	Visual Estimation	Point Count	Visual Estimation
Appearance	Layered	No	Yes	No
	Homogenous	No	No	No
	Fibrous	No	Yes	Yes
	Color	Black	Black/White	Black/Gray
Sample Treatment	Homogenized	Homogenized	Homogenized	Homogenized
Asbestos Content	% Amosite 0.0	0.0	0.0	0.0
	% Chrysotile 0.0	0.0	11.1	0.0
	% Other 0.0	0.0	0.0	0.0
	% Total Asbestos 0.0	0.0	11.1	0.0
Other Fibrous Materials Present	% Fibrous Glass 2.0	3.0	0.0	2.0
	% Cellulose 3.0	2.0	1.0	3.0
	% Other 0.0	0.0	0.0	0.0
	% Unidentified 0.0	0.0	0.0	0.0
Non-Fibrous Materials Present	% Silicates 15.0	15.0	0.0	35.0
	% Carbonates 5.0	5.0	0.0	5.0
	% Other 0.0	0.0	0.0	0.0
	% Unidentified 75.0	75.0	87.9	55.0

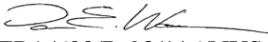
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Sample ID Number	L4,5	L4,6	L4,7	L5,1
Layer Number				
Lab ID Number	2326176	2326177	2326178	2326179
Sample Location	Line 4	Line 4	Line 4	Line 5
Sample Description	Soil & Debris - Brown			
Method of Quantification	Visual Estimation	Visual Estimation	Visual Estimation	Visual Estimation
Appearance				
Layered	No	No	No	No
Homogenous	No	No	No	No
Fibrous	No	No	Yes	Yes
Color	Black/Beige	Black/White	Black/White/Brown	Black/White
Sample Treatment	Homogenized	Homogenized	Homogenized	Homogenized
Asbestos				
Content				
% Amosite	0.0	0.0	0.0	0.0
% Chrysotile	0.0	0.0	0.0	0.0
% Other	0.0	0.0	0.0	0.0
% Total Asbestos	0.0	0.0	0.0	0.0
Other Fibrous				
Materials				
Present				
% Fibrous Glass	2.0	4.0	3.0	10.0
% Cellulose	1.0	1.0	2.0	2.0
% Other	0.0	0.0	0.0	0.0
% Unidentified	0.0	0.0	0.0	0.0
Non-Fibrous				
Materials				
Present				
% Silicates	20.0	15.0	15.0	5.0
% Carbonates	5.0	10.0	5.0	0.0
% Other	0.0	0.0	0.0	0.0
% Unidentified	72.0	70.0	75.0	83.0

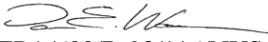
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 Signature :   
 Analytical Method : EPA/600/R-93/116/NYS-DOH 198.1 (PLM)  
 NVLAP Lab No. 101646-0  
 NYS Lab No. 10851

Client: Angstrom Environmental, Earth & Bldg Sciences, LLC  
 2 Budd Lane, Suite 1  
 East Greenbush, NY 12061

Sample ID Number	L6,1	L6,2	L6,3	L6,4
Layer Number				
Lab ID Number	2326180	2326181	2326182	2326183
Sample Location	Line 6	Line 6	Line 6	Line 6
Sample Description	Soil & Debris - Brown			
Method of Quantification	Visual Estimation	Visual Estimation	Visual Estimation	Visual Estimation
Appearance				
Layered	No	No	No	No
Homogenous	No	No	No	No
Fibrous	No	No	No	No
Color	Black/Beige	Black	Black	Black/Beige
Sample Treatment	Homogenized	Homogenized	Homogenized	Homogenized
Asbestos				
Content				
% Amosite	0.0	0.0	0.0	0.0
% Chrysotile	0.0	0.0	0.0	0.0
% Other	0.0	0.0	0.0	0.0
% Total Asbestos	0.0	0.0	0.0	0.0
Other Fibrous				
Materials Present				
% Fibrous Glass	2.0	1.0	2.0	3.0
% Cellulose	< 1.0	2.0	3.0	2.0
% Other	0.0	0.0	0.0	0.0
% Unidentified	0.0	0.0	0.0	0.0
Non-Fibrous				
Materials Present				
% Silicates	48.0	25.0	25.0	20.0
% Carbonates	10.0	5.0	5.0	5.0
% Other	0.0	0.0	0.0	0.0
% Unidentified	40.0	67.0	65.0	70.0

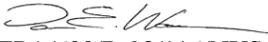
Results Applicable To Those Items Tested. Report Cannot be Reproduced, Except Entirely, Without Written Approval of the Laboratory.  
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 These Results Can Not Be Used To Claim That NOB Items Tested Are Non-Asbestos Containing. Overall Lab Accuracy ± 17%.  
 AIHA Accreditation No. 100263 Rhode Island DOH No. AAL-072T3 Massachusetts DOL No. A A 000072 Connecticut DOH No. PH-0622 Maine DEP No. LA-024 Vermont DOH No. AAS-2095



# Eastern Analytical Services, Inc.

## Bulk Sample Results

RE: CPN A1413 - Katzman Site

Date Collected : 11/07/2014  
 Collected By : Curtis J. Cappellano, Jr.  
 Date Received : 11/11/2014  
 Date Analyzed : 11/12/2014  
 Analyzed By : Damien Warner  
 Signature :   
 Analytical Method : EPA/600/R-93/116/NYS-DOH 198.1 (PLM)  
 NVLAP Lab No. 101646-0  
 NYS Lab No. 10851

Client: Angstrom Environmental, Earth & Bldg Sciences, LLC  
 2 Budd Lane, Suite 1  
 East Greenbush, NY 12061

Sample ID Number	L6,5	L6,6	L6,GRAB	L7,1
Layer Number				
Lab ID Number	2326184	2326185	2326186	2326187
Sample Location	Line 6	Line 6	Line 6	Line 7
Sample Description	Soil & Debris - Brown	Soil & Debris - Brown	Cloth Material - Gray	Soil & Debris - Brown
Method of Quantification	Visual Estimation	Visual Estimation	Visual Estimation	Visual Estimation
Appearance				
Layered	No	No	No	No
Homogenous	No	No	Yes	No
Fibrous	Yes	No	Yes	No
Color	Black/Beige	Black	Beige	Black/White
Sample Treatment	Homogenized	Homogenized	None	Homogenized
Asbestos Content				
% Amosite	0.0	0.0	0.0	0.0
% Chrysotile	0.0	0.0	0.0	0.0
% Other	0.0	0.0	0.0	0.0
% Total Asbestos	0.0	0.0	0.0	0.0
Other Fibrous Materials Present				
% Fibrous Glass	2.0	2.0	< 1.0	3.0
% Cellulose	< 1.0	1.0	70.0	5.0
% Other	0.0	0.0	0.0	0.0
% Unidentified	0.0	0.0	0.0	0.0
Non-Fibrous Materials Present				
% Silicates	25.0	35.0	0.0	25.0
% Carbonates	5.0	5.0	20.0	5.0
% Other	0.0	0.0	0.0	0.0
% Unidentified	68.0	57.0	10.0	62.0

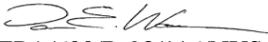
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# Eastern Analytical Services, Inc.

## Bulk Sample Results

RE: CPN A1413 - Katzman Site

Date Collected : 11/07/2014  
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 NVLAP Lab No. 101646-0  
 NYS Lab No. 10851

Client: Angstrom Environmental, Earth & Bldg Sciences, LLC  
 2 Budd Lane, Suite 1  
 East Greenbush, NY 12061

Sample ID Number	L7,2	L8,1
Layer Number		
Lab ID Number	2326188	2326189
Sample Location	Line 7	Line 8
Sample Description	Soil & Debris - Brown	Soil & Debris - Brown
Method of Quantification	Visual Estimation	Visual Estimation
Appearance		
Layered	No	No
Homogenous	No	No
Fibrous	No	No
Color	Black	Black/Beige
Sample Treatment	Homogenized	Homogenized
Asbestos		
% Amosite	0.0	0.0
Content		
% Chrysotile	0.0	0.0
% Other	0.0	0.0
% Total Asbestos	0.0	0.0
Other Fibrous		
% Fibrous Glass	3.0	3.0
Materials		
% Cellulose	2.0	2.0
Present		
% Other	0.0	0.0
% Unidentified	0.0	0.0
Non-Fibrous		
% Silicates	15.0	20.0
Materials		
% Carbonates	5.0	5.0
Present		
% Other	0.0	0.0
% Unidentified	75.0	70.0

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New York State Department of Labor

Division of Safety and Health  
License and Certificate Unit  
State Campus, Building 12  
Albany, NY 12240

ASBESTOS HANDLING LICENSE

Angstrom Environmental, Earth & Building Sciences,  
LLC  
Suite 1  
2 Budd Lane  
E. Greenbush, NY 12061

FILE NUMBER: 11-62096  
LICENSE NUMBER: 62096  
LICENSE CLASS: RESTRICTED  
DATE OF ISSUE: 09/04/2013  
EXPIRATION DATE: 10/31/2014

Duly Authorized Representative - Curtis J Cappellano Jr.

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This license is valid only for the contractor named above and this license or a photocopy must be prominently displayed at the asbestos project worksite. This license verifies that all persons employed by the licensee on an asbestos project in New York State have been issued an Asbestos Certificate, appropriate for the type of work they perform, by the New York State Department of Labor.

*Eileen M. Franko*

Eileen M. Franko, Acting Director  
For the Commissioner of Labor

STATE OF NEW YORK - DEPARTMENT OF LABOR  
ASBESTOS CERTIFICATE



**CURTIS J CAPPELLANO JR**  
CLASS(EXPIRES)  
D INSP(10/14)

CERT# 90-02690  
DMV# 745657657

MUST BE CARRIED ON ASBESTOS PROJECTS