



9/11 BULK DUST SAMPLE ANALYSIS

AT

**110 CHURCH STREET
NEW YORK, NEW YORK**

PREPARED FOR

**MR. MICHAEL RIEGLER
LIONS HEAD 110 DEVELOPMENT LLC
150 EAST 58th STREET
NEW YORK, NEW YORK 10155**

PREPARED BY

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Carle Place, NY 11514

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Attn.: STEVE POWELL

Environmental Monitoring & Consulting Assoc.

(EM & CA)

P.O. Box 872

Somerville, NJ 08876

Monday, October 15, 2001

Ref Number: LI0115738

POLARIZED LIGHT MICROSCOPY (PLM) - POINT COUNT

Performed by EPA 600/R-93/116 Method*

Project: 110 CHURCH ST NY, NY

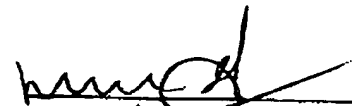
Sample	Location	Appearance	Sample Treatment	ASBESTOS		NON-ASBESTOS	
				%	Type	%	Non-Fibrous
110-B1-001	BSMT 1 / S CENTER	Grey Fibrous Heterogeneous	Teased		None Detected	60.% Min. Wool	40.% Other
110-B2-001	BSMT2 / E SIDE	Grey Fibrous Heterogeneous	Teased		None Detected	80.% Cellulose	20.% Other
50-BZ-002A**	BSMT 2 / N CENTER	Grey Fibrous Heterogeneous	Teased		None Detected	1.% Cellulose 2.% Fiber Glass	97.% Other
50-B2-003	BSMT 2 / N SIDE	Grey Fibrous Heterogeneous	Teased		None Detected	20.% Cellulose 20.% Min. Wool	60.% Other
50-B1-002	BSMT1 / NE SIDE	Grey Fibrous Heterogeneous	Teased		None Detected	10.% Cellulose	90.% Other
50-B1-003	BSMT1 / N CENTER SIDE	Grey Fibrous Heterogeneous	Teased/Crushed		None Detected	5.% Cellulose 5.% Min. Wool	90.% Other

Comments: For all obviously heterogeneous samples easily separated into subsamples, and for layered samples, each component is analyzed separately. Also, "# of Layers" refers to number of separable subsamples.

* NY samples analyzed by ELAP 198.1 Method.

Note: **Two samples were submitted with ID50-2B-002, both results given.

Daniel Clarke
Analyst


Approved
Signatory

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Analysis performed by EMSL Long Island (NVLAP Air and Bulk #101048-10, NY ELAP 11469, CA ELAP 2339, CT PH-0249)

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Project: 110 CHURCH ST NY, NY

Sample	Location	Appearance	Sample Treatment	<u>ASBESTOS</u>		<u>NON-ASBESTOS</u>	
				%	Type	%	Fibrous % Non-Fibrous
110-08-001	6TH FLR/ E SIDE	Grey Fibrous Heterogeneous	Teased/Crushed		None Detected	10.% Cellulose 10.% Min. Wool	80.% Other
50-06-002	6TH FLR/N CENTER SIDE	Grey Fibrous Heterogeneous	Crushed/Teased		None Detected	20.% Cellulose 30.% Min. Wool	50.% Other
50-06-003	6TH FLR/N SIDE	Grey Fibrous Heterogeneous	Teased/Crushed	1.3%	Chrysotile	20.% Cellulose 20.% Min. Wool	58.7% Other
50-05-001	5TH FLR / N SIDE	Grey Fibrous Heterogeneous	Teased	1.01%	Chrysotile	20.% Cellulose 20.% Min. Wool	56.99% Other
50-05-002	5TH FLR / N CENTER SIDE	Grey Fibrous Heterogeneous	Teased	< 1%	Chrysotile	25.% Cellulose 40.% Fiber Glass	35.% Other
110-05-003	5TH FLR / SE CORNER	Grey Fibrous Heterogeneous	Teased/Crushed		None Detected	40.% Cellulose 40.% Min. Wool	20.% Other

Comments: For all obviously heterogeneous samples easily separated into subsamples, and for layered samples, each component is analyzed separately. Also, "# of Layers" refers to number of separable subsamples.

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Performed by EPA 600/R-93/116 Method*

Project: 110 CHURCH ST NY, NY

Sample	Location	Appearance	Sample Treatment	<u>ASBESTOS</u>		<u>NON-ASBESTOS</u>	
				%	Type	%	Fibrous Non-Fibrous
110-04-001	4TH FLR / SW CORNER	Grey Fibrous Heterogeneous	Teased		None Detected	20.% Cellulose 60.% Min. Wool	20.% Other
50-04-002	4TH FLR / E SIDE	Grey Fibrous Heterogeneous	Teased/Crushed		None Detected	40.% Cellulose 30.% Min. Wool	60.% Other
50-04-003	4TH FLR / N CENTER SIDE	Grey Fibrous Heterogeneous	Teased/Crushed		None Detected	30.% Cellulose 30.% Min. Wool	40.% Other
50-19-002	19TH FLR / E STAIRWELL	Grey Fibrous Heterogeneous	Teased/Crushed		None Detected	10.% Cellulose 40.% Min. Wool	50.% Other
50-18-001	18TH FLR / N SIDE CENTER OF FLR	Grey Fibrous Heterogeneous	Teased/Crushed		None Detected	10.% Cellulose 40.% Min. Wool	50.% Other
50-18-002	18TH FLR / SW SIDE OF FLR	Grey Fibrous Heterogeneous	Teased/Crushed		None Detected	5.% Cellulose 45.% Min. Wool	50.% Other

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Project: 110 CHURCH ST NY, NY

Sample	Location	Appearance	Sample Treatment	ASBESTOS		NON-ASBESTOS	
				%	Type	% Fibrous	% Non-Fibrous
50-17-001	17TH FLR / S CENTER SIDE	Grey Fibrous Heterogeneous	Teased/Crushed	None Detected		20.% Cellulose 50.% Min. Wool	30.% Other
50-17-002	17TH FLR / 2 CENTER SIDE	Grey Fibrous Heterogeneous	Teased/Crushed	None Detected		10.% Cellulose 40.% Min. Wool	50.% Other
110-17-003	17TH FLR / 110 CHURCH ST SE CENTER OF FLR	Grey Fibrous Heterogeneous	Teased/Crushed	None Detected		5.% Cellulose 30.% Min. Wool	65.% Other
110-16-001	16TH FLR / S CENTER SIDE	Grey Fibrous Heterogeneous	Teased/Crushed	None Detected		30.% Cellulose 10.% Min. Wool	60.% Other
110-16-002	16TH FLR / E SIDE	Grey Fibrous Heterogeneous	Teased/Crushed	None Detected		5.% Cellulose 5.% Min. Wool	30.% Quartz 60.% Other
50-16-003	16TH FLR / N CENTER SIDE	Grey Fibrous Heterogeneous	Teased/Crushed	None Detected		25.% Cellulose 10.% Min. Wool	65.% Other

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Project: 110 CHURCH ST NY, NY

Sample	Location	Appearance	Sample Treatment	ASBESTOS		NON-ASBESTOS	
				%	Type	%	Non-Fibrous
50-03-001	3RD FLR / N SIDE	Grey Fibrous Heterogeneous	Teased/Crushed	None Detected		20.% Cellulose 5.% Fiber Glass	75.% Other
50-03-002	3RD FLR / N CENTER SIDE	Grey Fibrous Heterogeneous	Teased	< 1% Chrysotile		10.% Cellulose 40.% Fiber Glass	50.% Other
110-03-003	3RD FLR / SW CORNER	Grey Fibrous Heterogeneous	Teased/Crushed	2.1% Chrysotile		3.2% Cellulose 40.7% Fiber Glass	54.% Other
110-02-001	2ND FLR/E SIDE	Grey Fibrous Heterogeneous	Teased/Crushed	1.1% Chrysotile		7.3% Cellulose 41.6% Min. Wool	50.% Other
50-02-002	2ND FLR/E SIDE	Grey Fibrous Heterogeneous	Crushed/Teased	None Detected		50.% Fiber Glass 10.% Cellulose	40.% Other
50-02-003	2ND FLR/N CENTER SIDE	Grey Fibrous Heterogeneous	Teased/Crushed	None Detected		50.% Fiber Glass 10.% Cellulose	40.% Other

Comments: For all obviously heterogeneous samples easily separated into subsamples, and for layered samples, each component is analyzed separately. Also, "N of Layers" refers to number of separable subsamples.

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Sample	Location	Appearance	Sample Treatment	<u>ASBESTOS</u>		<u>NON-ASBESTOS</u>	
				%	Type	%	Fibrous % Non-Fibrous
50-01-001	1ST FLR/NE SIDE	Grey Fibrous Heterogeneous	Teased/Crushed	4.9%	Chrysotile	6.1% Cellulose 21.1% Min. Wool	68.8% Other
50-01-002	1ST FLR/NE SIDE	Grey Fibrous Heterogeneous	Teased/Crushed	None Detected		40.1% Cellulose 15.1% Fiber Glass	45.1% Other
110-01-003	1ST FLR/E SIDE	Grey Fibrous Heterogeneous	Teased/Crushed	None Detected		30.1% Cellulose 30.1% Min. Wool	40.1% Other
50-R-001	ROOF MECH RM NEAR WATER HEATER	Grey Fibrous Heterogeneous	Teased/Crushed	None Detected		10.1% Cellulose 20.1% Min. Wool	70.1% Other
50-R-002	ELEVATOR MOTOR RM	Grey Fibrous Heterogeneous	Teased/Crushed	None Detected		10.1% Cellulose 20.1% Min. Wool	70.1% Other
50-22-001	22ND FLR/ PENTHOUSE	Grey Fibrous Heterogeneous	Teased/Crushed	1.23%	Chrysotile	20.1% Fiber Glass	78.77% Other

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				%	Type	% Fibrous	% Non-Fibrous
50-22-002	22ND FLR STAIRWELL	Gray Fibrous Heterogeneous	Teased/Crushed	< 1%	Chrysotile	20.% Cellulose 20.% Fiber Glass	60.% Other
50-21-001	21ST FLR / SW CORNER	Gray Fibrous Heterogeneous	Teased/Crushed	< 1%	Chrysotile	10.% Cellulose 10.% Fiber Glass	80.% Other
50-21-002	BSMT/E END OF BLDG	Gray Fibrous Heterogeneous	Teased/Crushed	None Detected		20.% Cellulose 20.% Fiber Glass	60.% Other
50-20-001	20TH FLR/S SIDE CENTER OF FLR	Gray Fibrous Heterogeneous	Teased/Crushed	None Detected		30.% Cellulose 30.% Min. Wool	40.% Other
50-20-002	20TH FLR/SW SIDE OF FLR	Gray Fibrous Heterogeneous	Teased/Crushed	None Detected		10.% Cellulose	90.% Other
50-19-001	19TH FLR / SW CORNERS	Gray Fibrous Heterogeneous	Teased/Crushed	None Detected		20.% Cellulose 40.% Min. Wool	40.% Other

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Sample	Location	Appearance	Sample Treatment	ASBESTOS		NON-ASBESTOS	
				%	Type	% Fibrous	% Non-Fibrous
110-12-001	12TH FLR / SW CORNER	Grey Fibrous Heterogeneous	Teased/Crushed	0.71%	Chrysotile	20.0% Cellulose 20.0% Min. Wool	59.29% Other
50-12-003	12TH FLR / N SIDE	Grey Fibrous Heterogeneous	Teased/Crushed	None Detected		15.0% Cellulose	85.0% Other
50-12-003	12TH FLR / N SIDE	Grey Fibrous Heterogeneous	Teased/Crushed	None Detected		10.0% Cellulose 15.0% Min. Wool	75.0% Other
50-11-001	11TH FLR / S SIDE	Grey Fibrous Heterogeneous	Teased/Crushed	1.4%	Chrysotile	20.0% Min. Wool 10.0% Cellulose	68.6% Other
50-11-002	11TH FLR / N SIDE	Grey Fibrous Heterogeneous	Teased/Crushed	None Detected		20.0% Cellulose 10.0% Min. Wool	70.0% Other
110-11-003	11TH FLR / W SIDE	Grey Fibrous Heterogeneous	Teased/Crushed	0.52% Amosite 0.52% Chrysotile		10.0% Cellulose 10.0% Min. Wool	78.96% Other

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				%	Type	% Fibrous	% Non-Fibrous
110-10-001	10TH FLR / SE CORNER	Grey Fibrous Heterogeneous	Teased/Crushed	< 1%	Chrysotile	80.% Min. Wool	20.% Other
50-10-002	10TH FLR / ELEVATOR BANK	Grey Fibrous Heterogeneous	Teased/Crushed	0.23%	Chrysotile < 1% Amosite	40.% Min. Wool	59.77% Other
50-10-003	10TH FLR / S SIDE	Grey Fibrous Heterogeneous	Teased/Crushed	None Detected		10.% Min. Wool	90.% Other
50-16-001	15TH FLR / SW SIDE OF FLR	Grey Fibrous Heterogeneous	Teased/Crushed	0.48%	Chrysotile	40.% Fiber Glass	59.52% Other
50-15-002	15TH FLR / S CENTER SIDE ELEV BANK			Not Submitted			
110-15-003	15TH FLR / E SIDE	Grey Fibrous Heterogeneous	Teased	0.24%	Chrysotile	30.% Fiber Glass	69.76% Other

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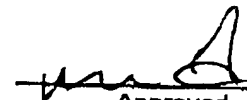
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				%	Type	% Fibrous	% Non-Fibrous
110-14-001	14TH FLR / S CENTER SID EOF FLR	Grey Fibrous Heterogeneous	Teased/Crushed	< 1%	Chrysotile	40.% Fiber Glass 5.% Cellulose	55.% Other
50-14-002	14TH FLR / E SIDE	Grey Fibrous Heterogeneous	Teased/Crushed	None Detected		5.% Cellulose	40.% Ca Carbonate 55.% Matrix
50-14-003	14TH FLR / S SIDE	Grey Fibrous Heterogeneous	Teased/Crushed	< 1%	Chrysotile	10.% Cellulose 10.% Min. Wool	80.% Other
50-13-001	13TH FLR / S SIDE	Grey Fibrous Heterogeneous	Teased/Crushed	None Detected		5.% Cellulose	95.% Other
50-13-002	13TH FLR / ELEV BANK	Grey Fibrous Heterogeneous	Teased/Crushed	None Detected		5.% Cellulose	95.% Other
110-13-003	13TH FLR-E SIDE	Grey Fibrous Heterogeneous	Teased/Crushed	None Detected		10.% Cellulose 10.% Fiber Glass	80.% Other

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EMSL

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Environmental Monitoring & Consulting Assoc.

(EM & CA)

P.O. Box 872

Somerville, NJ 08876

Monday, October 15, 2001

Ref Number: LI0115738

POLARIZED LIGHT MICROSCOPY (PLM) - POINT COUNT

Performed by EPA 600/R-93/116 Method*

Project: 110 CHURCH ST NY, NY

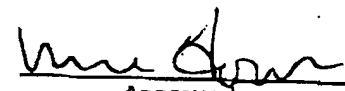
Sample	Location	Appearance	Sample Treatment	ASBESTOS		NON-ASBESTOS	
				%	Type	%	Fibrous % Non-Fibrous
50-09-001	9TH FLR / S SIDE	Grey Fibrous Heterogeneous	Teased/Crushed	1.8%	Chrysotile	20.0% Cellulose 20.0% Min. Wool	58.2% Other
50-09-002	9TH FLR / N SIDE	Grey Fibrous Heterogeneous	Teased/Crushed	None Detected		10.0% Cellulose 10.0% Min. Wool	80.0% Matrix
110-09-003	9TH FLR / SW CORNER	Grey Fibrous Heterogeneous	Teased/Crushed	None Detected		20.0% Cellulose 20.0% Min. Wool	60.0% Other
110-08-001	8TH FLR / SW CORNER	Grey Fibrous Heterogeneous	Teased/Crushed	1.3%	Chrysotile	20.0% Cellulose 20.0% Min. Wool	56.7% Other
50-08-002	8TH FLR / N CENTER SIDE	Grey Fibrous Heterogeneous	Teased/Crushed	None Detected		30.0% Cellulose 30.0% Min. Wool	40.0% Other
50-08-003	8TH FLR / N SIDE	Grey Fibrous Heterogeneous	Teased	0.23%	Chrysotile	30.0% Cellulose 30.0% Min. Wool	39.77% Other

Comments: For all obviously heterogeneous samples easily separated into subsamples, and for layered samples, each component is analyzed separately. Also, "# of Layers" refers to number of separable subsamples.

* NY samples analyzed by ELAP 198.1 Method.

Note: **Two samples were submitted with ID50-2B-002, both results given.

Daniel Clarke
Analyst


Approved
Signatory

Disclaimers: PLM has been known to miss asbestos in a small percentage of samples which contain asbestos. Thus negative PLM results cannot be guaranteed. EMSL suggests that samples reported as <1% or none detected be tested with either SEM or TEM. The above test report relates only to the items tested. This report may not be reproduced, except in full, without written approval by EMSL. The above test must not be used by the client to claim product endorsement by NVLAP nor any agency of the United States Government. Laboratory is not responsible for the accuracy of results when requested to physically separate and analyze layered samples.

Analysis performed by EMSL Long Island (NVLAP Air and Bulk #101048-10, NY ELAP 11469, CA ELAP 2339, CT PH-0249)

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Sample	Location	Appearance	Sample Treatment	<u>ASBESTOS</u>		<u>NON-ASBESTOS</u>	
				%	Type	%	Fibrous % Non-Fibrous
50-07-001	7TH FLR/SW CORNER	Grey Fibrous Heterogeneous	Teased/Crushed	None Detected		80.% Cellulose	20.% Other
50-07-002	7TH FLR/NE CORNER	Grey Fibrous Heterogeneous	Teased/Crushed	None Detected		30.% Cellulose 30.% Min. Wool	40.% Other
110-07-003	7TH FLR/SE CORNER	Grey Fibrous Heterogeneous	Teased/Crushed	None Detected		30.% Cellulose 30.% Min. Wool	40.% Other
B2-50-002		Grey Fibrous Heterogeneous	Teased	< 1% Chrysotile		1.% Cellulose 4.% Fiber Glass	95.% Other

Comments: For all obviously heterogeneous samples easily separated into subsamples, and for layered samples, each component is analyzed separately. Also, "# of Layers" refers to number of separable subsamples.

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Note: Two samples were submitted with ID50-2B-002, both results given.

Miron Apfeldorfer
Analyst


Approved
Signatory

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