

JLC ENVIRONMENTAL CONSULTANTS, INC.
 200 Park Avenue South, Suite 1001, New York, New York 10003
 Phone: (212) 420-8119 Fax: (212) 420-6092

Metcalf & Eddy Inc.
 3 Werner Way, Suite 310
 Lebanon, NJ 08833

ELAP Lab Code: 11029
 NIOSH and AIHA Lab Code: 100273
 NVLAP Lab Code: 101953

Project No.: 01-2102
 Analyte: ASBESTOS
 Date Received: 9/28/01
 Date Analyzed: 9/29/01
 Batch #: 0109B385

SUMMARY OF ANALYTICAL RESULTS - PLM

Site: 3 World Financial Center - Floors 3-26

SAMPLE

DATE
COLLECTED

DESCRIPTION / LOCATION

COLOR

ASBESTOS
DETECTED?

TOTAL % OF
ASBESTOS

CONSTITUENTS

LAB #

CLIENT'S SAMPLE #

5001 9/28/01 11037	5th Floor/ South East/ North East Side/ Sample of Debris	GRAY/ WHITE	NO	0%	CELL FBGL NFIB	15% 10% 75%
5-001						
5002 9/28/01 11038	5th Floor/ South East/ North East Side/ Sample of Debris	GRAY/ WHITE	NO	0%	CELL FBGL NFIB	20% 5% 75%
5-002						
5003 9/28/01 11039	5th Floor/ South East/ North East Side/ Sample of Debris	BEIGE	NO	0%	CELL FBGL NFIB	5% 25% 70%
5-003						
5004 9/28/01 11040	5th Floor/ South East/ North East Side/ Sample of Debris	BROWN/ WHITE	NO	0%	CELL NFIB	10% 90%
5-004						

*INSUFFICIENT MATERIAL SUBMITTED

**TEM RECOMMENDED

***NOT ANALYZED POSITIVE STOP

Sample Analysis by:

Polarized Light Microscopy-Dispersion Staining (PLM-DS)

Method of Sample Preparation and Analysis:

All samples were prepared and analyzed in accordance with the EPA
 "Method for the Determination of Asbestos in Bulk Building Materials"
 USEPA/ 600/ R-93/116, July 1993.

Instrumentation:

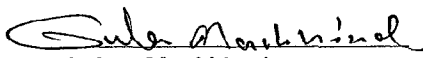
Olympus PLM, Model BH-2/VM Stereomicroscope, Model
 VMZ 1x-4x.

ASBESTOS CONSTITUENTS

CHRY = Chrysotile Asbestos
 AMOS = Amosite Asbestos
 CROC = Crocidolite Asbestos
 ACTN = Actinolite Asbestos
 TREM = Tremolite Asbestos
 ANTH = Anthophyllite Asbestos

NON-ASBESTOS CONSTITUENTS

PAPF = Paper Fiber
 MINW = Mineral Wool
 FBGL = Fiberglass
 SYNf = Synthetic Fibers
 CELL = Cellulose
 NFIB = Non-Fibrous
 ORGM = Organic Material
 WOLL = Wollastonite
 HSHR = Horse Hair
 OTHR = Other


Gulam Machhiwala
 Laboratory Director

Analytical results reflect the make up of the materials only in the areas sampled. This "Summary of Analytical Results" shall not be reproduced except in full, without the written approval of JLC Laboratory, and it must not be used by client to claim product endorsement by NVLAP or any agency of the U.S. Government. This method is not applicable to samples containing large amounts of fine fibers below the resolution of the light microscope. The value of this method is limited to the quantitative identification of asbestos and the semi-quantitative determination of asbestos content of bulk samples, expressed as a percentage of the protected area. Quantitation of asbestos content was determined with a visual volume estimate, a calibrated visual area estimate, and/or point counting procedure. CAUTION: Other fibers with optical properties similar to asbestos may give positive interferences and will be considered asbestos under this methodology. Also, PLM is not consistently reliable in detecting asbestos in floor coverings and similar non-friable organically-bound materials. Quantitative transmission electron microscopy is currently the only method that can be used to determine if this material can be considered or treated as non-asbestos containing.

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SAMPLE #	DATE COLLECTED	DESCRIPTION / LOCATION	COLOR	ASBESTOS DETECTED?	TOTAL % OF ASBESTOS	CONSTITUENTS
5005	9/28/01	5th Floor/ South East/ North East Side/ Sample of Debris	GRAY/ WHITE	NO	0%	CELL 10% FBGL 5% SYNF 5% NFIB 80%
5-005	9/28/01	5th Floor/ South East/ South East Window/ Sample of Debris	GRAY	NO	0%	CELL 15% FBGL 20% NFIB 65%
5006	9/28/01	5th Floor/ South East/ South East Window/ Sample of Debris	GRAY/ WHITE	NO	0%	FBGL 20% CELL 10% NFIB 70%
5-006	9/28/01	5th Floor/ South East/ South East Window/ Sample of Debris	GRAY/ WHITE	NO	0%	FBGL 10% CELL 10% NFIB 80%
5007	9/28/01	5th Floor/ South East/ South East Window/ Sample of Debris	GRAY/ WHITE	NO	0%	FBGL 10% CELL 10% NFIB 80%
5-007	9/28/01	5th Floor/ South East/ South East Window/ Sample of Debris	GRAY/ WHITE	NO	0%	FBGL 10% CELL 10% NFIB 80%
5008	9/28/01	5th Floor/ South East/ South East Window/ Sample of Debris	GRAY/ WHITE	NO	0%	FBGL 10% CELL 10% NFIB 80%
5-008	9/28/01	5th Floor/ South East/ South East Window/ Sample of Debris	GRAY/ WHITE	NO	0%	FBGL 10% CELL 10% NFIB 80%

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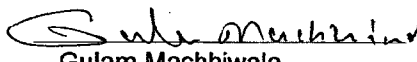
Olympus PLM, Model BH-2/VM Stereomicroscope, Model VMZ 1x-4x.

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ASBESTOS
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TOTAL % OF
ASBESTOS

CONSTITUENTS

LAB #

CLIENT'S SAMPLE #

5009	5th Floor/ South East/ South East Window/	GRAY/	NO	0%	CELL	15%
9/28/01	Sample of Debris	WHITE			FBGL	5%
11045					NFIB	80%
5-009						

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