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Approved N.Y. State ELAP #10879  
ACCREDITED NVLAP Lab Code # 1187  
Report Date: 10/05/01

# ASBESTOS FIBER ANALYSIS BY TRANSMISSION ELECTRON MICROSCOPY (TEM)

With Fiber Identification by Selected-Area Electron Diffraction (SAED) and Energy-Dispersive X-RAY Spectroscopy (EDS)

Method: AHERA Final Rule, EPA Federal Register (40 CFR, Part 763), Vol. 52, No. 210, October 30, 1987

## Sample Identification

## Analysis Parameters

Project/Site: H.S. for Economics & Finance, 100 Trinity Pl., NYC

Entire Building

Date Received: 10/04/01

Project Sample No.: WSEF-E-10/3-46

Air Volume: 1810 liters

Filter Type: MCE 25 mm diam., Pore Size: 0.45 um

Effective Area: 385 mm<sup>2</sup>

TEM Sample No.: 5606 - 60124

Grid Openings Analyzed: 4

Average Grid Opening: 106.00 um

Total Area Analyzed: 0.0450 mm<sup>2</sup>

Analytical Sensitivity: 22.2 s/mm<sup>2</sup>

0.0047 s/cc

## FIBROUS PARTICULATES ANALYZED

### Number Observed

### CONCENTRATION

|                                                | Single |         |          | Matrix<br>Struct. | Total<br>Struct. | Total<br>Struct.<br>>=Sum | Filter                 |           | Air |
|------------------------------------------------|--------|---------|----------|-------------------|------------------|---------------------------|------------------------|-----------|-----|
|                                                | Fibers | Bundles | Clusters |                   |                  |                           | Struct/mm <sup>2</sup> | Struct/cc |     |
| Chrysotile Asbestos                            | 0      | 0       | 0        | 0                 | 0                | 0                         | 0.0                    | 0.0000    | 0   |
| Amphibole Asbestos                             | 0      | 0       | 0        | 0                 | 0                | 0                         | 0.0                    | 0.0000    | 0   |
| Ambiguous                                      | 0      | 0       | 0        | 0                 | 0                | 0                         | 0.0                    | 0.0000    | 0   |
| Total asbestos (includes ambiguous structures) |        |         |          |                   | 0                | 0                         | 0.0                    | 0.0000    | 0   |
| Non-Asbestos                                   | 0      | 0       | 0        | 0                 | 0                | 0                         | 0.0                    | 0.0000    | N/A |
| No Identification                              | 0      | 0       | 0        | 0                 | 0                | 0                         | 0.0                    | 0.0000    | N/A |
| Totals (All Structures)                        |        |         |          |                   | 0                | 0                         | 0.0                    | 0.0000    | N/A |

The estimated uncertainty of this analysis is 1 standard deviation.

Non-asbestos fiber i.d. (EDS/SAED): None detected

Amphibole Asbestos Type: None detected

The Analysis was carried out in accordance with the approved TEM method.  
This laboratory is in compliance with the quality specified for the method.

Analyzed by:

Report Reviewed by:

Marek Peysakhov

Michael A. Gorycki, Ph.D.  
Director of Electron Microscopy