

ATC Environmental, Inc.  
104 East 25th Street  
New York, New York 10010

N.Y.C. Board of Education  
28-11 Queens Plaza North  
Long Island City, NY 11101

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: Stuyvesant H.S., 345 Chambers St., NY, NY

Floors 1-10

Date Received: 10/05/01

Project Sample No.: SHS-1>10-10/5-54

Air Volume: 1929 liters

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

Effective Area: 385 mm2

TEM Sample No.: 5609 - 60061

Grid Openings Analyzed: 4

Average Grid Opening: 106.00 um

Total Area Analyzed: 0.0450 mm2

Analytical Sensitivity: 22.2 s/mm2

0.0044 s/cc

## FIBROUS PARTICULATES ANALYZED

### Number Observed

### CONCENTRATION

|                                                | Single |         |          | Matrix  | Total.  | Total         | Filter     |           | Air    |
|------------------------------------------------|--------|---------|----------|---------|---------|---------------|------------|-----------|--------|
|                                                | Fibers | Bundles | Clusters | Struct. | Struct. | Struct. >=5um | Struct/mm2 | Struct/cc | ngm/m3 |
| 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        | 0.0000    | 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        | 0.0000    | 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:

Roman Peysakhov

Report Reviewed by:

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