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September 30, 2001

N.Y.C. School Construction Authority
30-30 Thomson Avenue
Long Island City, NY 11101
Attn: Mr. Hamid Savoj

15-21203-0067

Re: Report of TEM Analysis

Dear Mr. Savoj:

Following are the results of transmission electron microscopy (TEM) analysis of air samples from our Group No. 5585:

Project Name: Stuyvesant H.S., 345 Chambers St., NY, NY
Location: Floors 6-11, Escalators: Floors 5-9
Samples received: 09/30/01

These results will confirm and document the data transmitted today to Mr. Michael Parpounas, Director of Asbestos Services, of our office. The analyses were performed in strict conformance with the methodology of the AHERA Final Rule (CFR October 30, 1987) for clearance of abatement sites. As indicated on the attached Summary Results sheet, no asbestos structures were detected in any of the twenty-seven inside samples submitted from the site.

Copies of the bench sheets are also included as stipulated by AHERA. Nuclear TEM cassettes, Lot No. 98240617, were used. Results reported as Struct/cc are a function of air volume collected in the field and are, as such, not verifiable by this laboratory. This report may be reproduced only in its entirety and not without prior permission of this laboratory. If post-abatement inside samples pass, the response action may be considered to have been completed. The analyses were supervised by Dr. Michael A. Gorycki, Director of Electron Microscopy.

We are pleased to note that our TEM lab has received full accreditation from NVLAP, as is currently required for recognized analysis of TEM air samples for AHERA projects, and also approval under the NY State DOH ELAP program. These analyses were performed by ATC d/b/a ATC Associates Inc. Please contact me regarding any questions relating to these materials.

Very truly yours,

A handwritten signature in black ink, appearing to read 'Michael A. Gorycki', written over a horizontal line.

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

ATC ENVIRONMENTAL, INC.
104 East 25th Street
New York, NY 10010

APPROVED NY STATE DOH ELAP # 10879
ACCREDITED NVLAP Lab Code # 1187

Summary of TEM Results

N.Y.C. School Construction Authority
30-30 Thomson Avenue
Long Island City, NY 11101
Mr. Hamid Savoj

DATE: 09/30/01

Project/Site Identification: Stuyvesant H.S., 345 Chambers St., NY, NY
Floors 6-11, Escalators: Floors 5-9

CONCLUSION:

STATISTICAL SUMMARY

1) Inside Samples

TEM#	Project #	Volume (l)	<u>Asbestos Concentration</u>		
			S/mm ²	S/cc	ngm/m ³
5585- 59815	SHS-F&E-9/30-03	1729	0.0	0.0050 *	
5585- 59816	SHS-F&E-9/30-04	1710	0.0	0.0050 *	
5585- 59817	SHS-F&E-9/30-05	1853	0.0	0.0046 *	
5585- 59818	SHS-F&E-9/30-06	1853	0.0	0.0046 *	
5585- 59819	SHS-F&E-9/30-07	1853	0.0	0.0046 *	
5585- 59820	SHS-F&E-9/30-08	1853	0.0	0.0046 *	
5585- 59821	SHS-F&E-9/30-09	1972	0.0	0.0043 *	
5585- 59822	SHS-F&E-9/30-10	1862	0.0	0.0046 *	
5585- 59823	SHS-F&E-9/30-11	1853	0.0	0.0046 *	
5585- 59824	SHS-F&E-9/30-12	1853	0.0	0.0046 *	
5585- 59825	SHS-F&E-9/30-13	1872	0.0	0.0046 *	
5585- 59826	SHS-F&E-9/30-14	1853	0.0	0.0046 *	
5585- 59827	SHS-F&E-9/30-15	1853	0.0	0.0046 *	
5585- 59828	SHS-F&E-9/30-16	1853	0.0	0.0046 *	
5585- 59829	SHS-F&E-9/30-17	1853	0.0	0.0046 *	
5585- 59830	SHS-F&E-9/30-18	1853	0.0	0.0046 *	
5585- 59831	SHS-F&E-9/30-19	1853	0.0	0.0046 *	
5585- 59832	SHS-F&E-9/30-20	1843	0.0	0.0046 *	
5585- 59833	SHS-F&E-9/30-21	1853	0.0	0.0046 *	
5585- 59834	SHS-F&E-9/30-22	1853	0.0	0.0046 *	
5585- 59835	SHS-F&E-9/30-23	1853	0.0	0.0046 *	
5585- 59836	SHS-F&E-9/30-24	1853	0.0	0.0046 *	
5585- 59837	SHS-F&E-9/30-25	1825	0.0	0.0047 *	
5585- 59838	SHS-F&E-9/30-26	1835	0.0	0.0047 *	
5585- 59839	SHS-F&E-9/30-27	1853	0.0	0.0046 *	
5585- 59840	SHS-F&E-9/30-28	1853	0.0	0.0046 *	
5585- 59841	SHS-F&E-9/30-29	1843	0.0	0.0046 *	
Average=			0.0	0.0046	0

2) Outside Samples

TEM#	Project #	Volume (l)	<u>Asbestos Concentration</u>		
			S/mm^2	S/cc	ngm/m^3
			Average=	N/A	N/A

3) Blanks

TEM#	Project #	Volume (l)	<u>Asbestos Concentration</u>		
			S/mm ²	S/cc	ngm/m ³
5585- 59813	SHS-F&E-9/30-01		- - - - -	Not Analyzed	- - - - -
5585- 59814	SHS-F&E-9/30-02		- - - - -	Not Analyzed	- - - - -
5585- 59842	SHS-F&E-9/30-30		- - - - -	Not Analyzed	- - - - -
5585- 59843	SHS-F&E-9/30-31		- - - - -	Not Analyzed	- - - - -
Average=			N/A	N/A	N/A

4) Value of T - Statistic : N/A

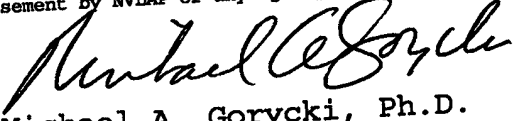
* None detected; concentration equivalent to analytical sensitivity assigned.

This test report relates only to the specific items cited in the analysis.

The analysis was carried out according to the approved TEM method. The laboratory is in compliance with the quality specified for the method.

This report must not be used by the client to claim product endorsement by NVLAP or any agency of the U.S. Government.

RP
Analyzed by:
Roman Peysakhov


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

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

N.Y.C. School Construction Authority
30-30 Thomson Avenue
Long Island City, NY 11101

Approved N.Y. State ELAP #10879
ACCREDITED NVLAP Lab Code # 1187
Report Date: 09/30/01

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 6-11, Escalators: Floors 5-9

Date Received: 09/30/01

Project Sample No.: SHS-F&E-9/30-03

Air Volume: 1729 liters

Filter Type: MCE 25 mm diam., Pore Size: 0.45 um
Effective Area: 385 mm²

TEM Sample No.: 5585 - 59815

Grid Openings Analyzed: 4

Average Grid Opening: 106.00 um

Total Area Analyzed: 0.0450 mm²

Analytical Sensitivity: 22.2 s/mm²
0.0050 s/cc

FIBROUS PARTICULATES ANALYZED

Number Observed

	Number Observed			Matrix	Total.	Total
	Single	Bundles	Clusters	Struct.	Struct.	Struct.
	Fibers					>=5um
Chrysotile Asbestos	0	0	0	0	0	0
Amphibole Asbestos	0	0	0	0	0	0
Ambiguous	0	0	0	0	0	0
Total asbestos (includes ambiguous structures)					0	0
Non-Asbestos	0	0	0	0	0	0
No Identification	0	0	0	0	0	0
Totals (All Structures)					0	0

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

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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 6-11, Escalators: Floors 5-9

Date Received: 09/30/01

Project Sample No.: SHS-F&E-9/30-04

Air Volume: 1710 liters

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

Effective Area: 385 mm2

TEM Sample No.: 5585 - 59816

Grid Openings Analyzed: 4

Average Grid Opening: 106.00 um

Total Area Analyzed: 0.0450 mm2

Analytical Sensitivity: 22.2 s/um2

0.0050 s/cc

FIBROUS PARTICULATES ANALYZED

Number Observed

	Number Observed			Matrix Struct.	Total. Struct.	Total Struct. >=5um
	Single Fibers	Bundles	Clusters			
Chrysotile Asbestos	0	0	0	0	0	0
Amphibole Asbestos	0	0	0	0	0	0
Ambiguous	0	0	0	0	0	0
Total asbestos (includes ambiguous structures)					0	0
Non-Asbestos	0	0	0	0	0	0
No Identification	0	0	0	0	0	0
Totals (All Structures)					0	0

The estimated uncertainty of this analysis is 1 standard deviation.

CONCENTRATION

	Filter		Air
	Struct/mm2	Struct/cc	
Chrysotile Asbestos	0.0	0.0000	0
Amphibole Asbestos	0.0	0.0000	0
Ambiguous	0.0	0.0000	0
Total asbestos (includes ambiguous structures)	0.0	0.0000	0
Non-Asbestos	0.0	0.0000	N/A
No Identification	0.0	0.0000	N/A
Totals (All Structures)	0.0	0.0000	N/A

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:

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Director of Electron Microscopy

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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

TEM Sample No.: 5585 - 59817

Floors 6-11, Escalators: Floors 5-9

Date Received: 09/30/01

Grid Openings Analyzed: 4

Project Sample No.: SHS-F&E-9/30-05

Average Grid Opening: 106.00 um

Air Volume: 1853 liters

Total Area Analyzed: 0.0450 mm2

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

Analytical Sensitivity: 22.2 s/mm2

Effective Area: 385 mm2

0.0046 s/cc

FIBROUS PARTICULATES ANALYZED

	<u>Number Observed</u>			<u>CONCENTRATION</u>		
	<u>Single Fibers</u>	<u>Bundles</u>	<u>Clusters</u>	<u>Matrix Struct.</u>	<u>Total Struct. >=5um</u>	<u>Filter Struct./mm2</u>
Chrysotile Asbestos	0	0	0	0	0	0.0
Amphibole Asbestos	0	0	0	0	0	0.0
Ambiguous	0	0	0	0	0	0.0
Total asbestos (includes ambiguous structures)					0	0.0
Non-Asbestos	0	0	0	0	0	0.0
No Identification	0	0	0	0	0	0.0
Totals (All Structures)					0	0.0

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:

Roman Peysakhov

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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 6-11, Escalators: Floors 5-9

Date Received: 09/30/01

Project Sample No.: SHS-F&E-9/30-06

Air Volume: 1853 liters

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

Effective Area: 385 mm2

TEM Sample No.: 5585 - 59818

Grid Openings Analyzed: 4

Average Grid Opening: 106.00 um

Total Area Analyzed: 0.0450 mm2

Analytical Sensitivity: 22.2 s/mm2
0.0046 s/cc

FIBROUS PARTICULATES ANALYZED

	<u>Number Observed</u>						<u>CONCENTRATION</u>		
				Matrix Struct.	Total Struct.	Total Struct. >=5um	<u>Filter</u>		<u>Air</u> ngm/m3
	<u>Single Fibers</u>	<u>Bundles</u>	<u>Clusters</u>				<u>Struct/mm2</u>	<u>Struct/cc</u>	
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:

Roman Peysakhov

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Director of Electron Microscopy

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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 6-11, Escalators: Floors 5-9

TEM Sample No.: 5585 - 59819

Date Received: 09/30/01

Grid Openings Analyzed: 4

Project Sample No.: SHS-F&E-9/30-07

Average Grid Opening: 106.00 um

Air Volume: 1853 liters

Total Area Analyzed: 0.0450 mm2

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

Analytical Sensitivity: 22.2 s/mm2

Effective Area: 385 mm2

0.0046 s/cc

FIBROUS PARTICULATES ANALYZED

	<u>Number Observed</u>						<u>CONCENTRATION</u>		
				Matrix Struct.	Total. Struct.	Total Struct. >=5um	<u>Filter</u>		<u>Air</u> ngm/m3
	<u>Single Fibers</u>	<u>Bundles</u>	<u>Clusters</u>				<u>Struct/mm2</u>	<u>Struct/cc</u>	
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:

Roman Peysakhov

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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 6-11, Escalators: Floors 5-9
Date Received: 09/30/01

TEM Sample No.: 5585 - 59820

Grid Openings Analyzed: 4

Project Sample No.: SHS-F&E-9/30-08

Average Grid Opening: 106.00 um

Air Volume: 1853 liters

Total Area Analyzed: 0.0450 mm2

Filter Type: MCE 25 mm diam., Pore Size: 0.45 um
Effective Area: 385 mm2

Analytical Sensitivity: 22.2 s/mm2
0.0046 s/cc

FIBROUS PARTICULATES ANALYZED

	<u>Number Observed</u>						<u>CONCENTRATION</u>		
				Matrix Struct.	Total. Struct.	Total Struct. >=5um	<u>Filter</u>		<u>Air</u> ngm/m3
	<u>Single Fibers</u>	<u>Bundles</u>	<u>Clusters</u>				<u>Struct/mm2</u>	<u>Struct/cc</u>	
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.

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Report Reviewed by:

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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 6-11, Escalators: Floors 5-9

TEM Sample No.: 5585 - 59821

Date Received: 09/30/01

Grid Openings Analyzed: 4

Project Sample No.: SHS-F&E-9/30-09

Average Grid Opening: 106.00 um

Air Volume: 1972 liters

Total Area Analyzed: 0.0450 mm2

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

Analytical Sensitivity: 22.2 g/mm2

Effective Area: 385 mm2

0.0043 g/cc

FIBROUS PARTICULATES ANALYZED

	<u>Number Observed</u>						<u>CONCENTRATION</u>		
	<u>Single</u>			<u>Matrix</u>	<u>Total.</u>	<u>Total</u>	<u>Filter</u>		<u>Air</u>
	<u>Fibers</u>	<u>Bundles</u>	<u>Clusters</u>				<u>Struct/mm2</u>	<u>Struct/cc</u>	
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.

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Report Reviewed by:

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Sample Identification

Analysis Parameters

Project/Site: Stuyvesant H.S., 345 Chambers St., NY, NY
Floors 6-11, Escalators: Floors 5-9
Date Received: 09/30/01

TEM Sample No.: 5585 - 59822

Grid Openings Analyzed: 4

Project Sample No.: SHS-F&E-9/30-10

Average Grid Opening: 106.00 um

Air Volume: 1862 liters

Total Area Analyzed: 0.0450 mm2

Filter Type: MCE 25 mm diam., Pore Size: 0.45 um
Effective Area: 385 mm2

Analytical Sensitivity: 22.2 s/mm2
0.0046 s/cc

FIBROUS PARTICULATES ANALYZED

	<u>Number Observed</u>						<u>CONCENTRATION</u>			
				Matrix Struct.	Total. Struct.	Total Struct. >=5um	Filter		Air	
	Single Fibers	Bundles	Clusters				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	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:

Roman Peysakhov

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

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

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Long Island City, NY 11101

Approved N.Y. State ELAP #10879
ACCREDITED NVLAP Lab Code # 1187
Report Date: 09/30/01

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 6-11, Escalators: Floors 5-9

Date Received: 09/30/01

Project Sample No.: SHS-F&E-9/30-11

Air Volume: 1853 liters

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

Effective Area: 385 mm2

TEM Sample No.: 5585 - 59823

Grid Openings Analyzed: 4

Average Grid Opening: 106.00 um

Total Area Analyzed: 0.0450 mm2

Analytical Sensitivity: 22.2 s/mm2
0.0046 s/cc

FIBROUS PARTICULATES ANALYZED

Number Observed

CONCENTRATION

	<u>Number Observed</u>			<u>CONCENTRATION</u>		
	Single Fibers	Bundles	Clusters	Matrix Struct.	Total Struct. >=5um	
Chrysotile Asbestos	0	0	0	0	0	0.0
Amphibole Asbestos	0	0	0	0	0	0.0
Ambiguous	0	0	0	0	0	0.0
Total asbestos (includes ambiguous structures)					0	0.0
Non-Asbestos	0	0	0	0	0	0.0
No Identification	0	0	0	0	0	0.0
Totals (All Structures)					0	0.0

Filter Air
Struct./mm2 Struct/cc ngm/m3

0.0000 0
0.0000 0
0.0000 0
0.0000 0
0.0000 N/A
0.0000 N/A
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:

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Report Date: 09/30/01

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 6-11, Escalators: Floors 5-9

Date Received: 09/30/01

Project Sample No.: SHS-F&E-9/30-12

Air Volume: 1853 liters

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

Effective Area: 385 mm2

TEM Sample No.: 5585 - 59824

Grid Openings Analyzed: 4

Average Grid Opening: 106.00 um

Total Area Analyzed: 0.0450 mm2

Analytical Sensitivity: 22.2 s/mm2
0.0046 s/cc

FIBROUS PARTICULATES ANALYZED

	<u>Number Observed</u>						<u>CONCENTRATION</u>		
				Matrix Struct.	Total. Struct.	Total Struct. >=5um	<u>Filter</u>		<u>Air</u> ngm/m3
	<u>Single Fibers</u>	<u>Bundles</u>	<u>Clusters</u>				<u>Struct/mm2</u>	<u>Struct/cc</u>	
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:

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Report Date: 09/30/01

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 6-11, Escalators: Floors 5-9

TEM Sample No.: 5585 - 59825

Date Received: 09/30/01

Grid Openings Analyzed: 4

Project Sample No.: SHS-F&E-9/30-13

Average Grid Opening: 106.00 um

Air Volume: 1872 liters

Total Area Analyzed: 0.0450 mm2

Filter Type: MCE 25 mm diam., Pore Size: 0.45 um
Effective Area: 385 mm2

Analytical Sensitivity: 22.2 s/mm2
0.0046 s/cc

FIBROUS PARTICULATES ANALYZED

	<u>Number Observed</u>						<u>CONCENTRATION</u>		
				Matrix Struct.	Total. Struct.	Total Struct. >=5um	<u>Filter</u>		<u>Air</u> ngm/m3
	<u>Single Fibers</u>	<u>Bundles</u>	<u>Clusters</u>				<u>Struct/mm2</u>	<u>Struct/cc</u>	
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:

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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

TEM Sample No.: 5585 - 59826

Floors 6-11, Escalators: Floors 5-9

Date Received: 09/30/01

Grid Openings Analyzed: 4

Project Sample No.: SHS-F&E-9/30-14

Average Grid Opening: 106.00 um

Air Volume: 1853 liters

Total Area Analyzed: 0.0450 mm2

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

Analytical Sensitivity: 22.2 s/mm2

Effective Area: 385 mm2

0.0046 s/cc

FIBROUS PARTICULATES ANALYZED

	<u>Number Observed</u>						<u>CONCENTRATION</u>		
	Single Fibers	Bundles	Clusters	Matrix Struct.	Total. Struct.	Total Struct. >=5um	Filter Struct/mm2	Air 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	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:

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Report Date: 09/30/01

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 6-11, Escalators: Floors 5-9

Date Received: 09/30/01

Project Sample No.: SHS-F&E-9/30-15

Air Volume: 1853 liters

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

Effective Area: 385 mm2

TEM Sample No.: 5585 - 59827

Grid Openings Analyzed: 4

Average Grid Opening: 106.00 um

Total Area Analyzed: 0.0450 mm2

Analytical Sensitivity: 22.2 s/mm2
0.0046 s/cc

FIBROUS PARTICULATES ANALYZED

Number Observed

CONCENTRATION

	<u>Number Observed</u>			<u>CONCENTRATION</u>		
	Single Fibers	Bundles	Clusters	Matrix Struct.	Total Struct. >=5um	
				Struct.	Struct.	
Chrysotile Asbestos	0	0	0	0	0	0.0
Amphibole Asbestos	0	0	0	0	0	0.0
Ambiguous	0	0	0	0	0	0.0
Total asbestos (includes ambiguous structures)					0	0.0
Non-Asbestos	0	0	0	0	0	0.0
No Identification	0	0	0	0	0	0.0
Totals (All Structures)					0	0.0

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:

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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 6-11, Escalators: Floors 5-9

Date Received: 09/30/01

Project Sample No.: SHS-F&E-9/30-16

Air Volume: 1853 liters

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

Effective Area: 385 mm2

TEM Sample No.: 5585 - 59828

Grid Openings Analyzed: 4

Average Grid Opening: 106.00 um

Total Area Analyzed: 0.0450 mm2

Analytical Sensitivity: 22.2 s/mm2
0.0046 s/cc

FIBROUS PARTICULATES ANALYZED

Number Observed

	<u>Number Observed</u>			<u>Matrix</u>	<u>Total.</u>	<u>Total</u>
	<u>Single</u>					
	<u>Fibers</u>	<u>Bundles</u>	<u>Clusters</u>	<u>Struct.</u>	<u>Struct.</u>	<u>Struct.</u>
						<u>>=5um</u>
Chrysotile Asbestos	0	0	0	0	0	0
Amphibole Asbestos	0	0	0	0	0	0
Ambiguous	0	0	0	0	0	0
Total asbestos (includes ambiguous structures)					0	0
Non-Asbestos	0	0	0	0	0	0
No Identification	0	0	0	0	0	0
Totals (All Structures)					0	0

The estimated uncertainty of this analysis is 1 standard deviation.

CONCENTRATION

	<u>Filter</u>		<u>Air</u>
	<u>Struct/mm2</u>	<u>Struct/cc</u>	
			<u>ngm/m3</u>
Chrysotile Asbestos	0.0	0.0000	0
Amphibole Asbestos	0.0	0.0000	0
Ambiguous	0.0	0.0000	0
Total asbestos (includes ambiguous structures)	0.0	0.0000	0
Non-Asbestos	0.0	0.0000	N/A
No Identification	0.0	0.0000	N/A
Totals (All Structures)	0.0	0.0000	N/A

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:

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ACCREDITED NVLAP Lab Code # 1187
Report Date: 09/30/01

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 6-11, Escalators: Floors 5-9

Date Received: 09/30/01

Project Sample No.: SHS-F&E-9/30-17

Air Volume: 1853 liters

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

Effective Area: 385 mm2

TEM Sample No.: 5585 - 59829

Grid Openings Analyzed: 4

Average Grid Opening: 106.00 um

Total Area Analyzed: 0.0450 mm2

Analytical Sensitivity: 22.2 s/mm2

0.0046 s/cc

FIBROUS PARTICULATES ANALYZED

Number Observed

CONCENTRATION

	Number Observed			Total			CONCENTRATION		
	Single Fibers	Bundles	Clusters	Matrix Struct.	Total. Struct.	Total Struct. >=5um	Filter Struct/mm2	Air Struct/cc	Air 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	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:

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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

TEM Sample No.: 5585 - 59830

Floors 6-11, Escalators: Floors 5-9

Grid Openings Analyzed: 4

Date Received: 09/30/01

Project Sample No.: SHS-F&E-9/30-18

Average Grid Opening: 106.00 um

Air Volume: 1853 liters

Total Area Analyzed: 0.0450 mm2

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

Analytical Sensitivity: 22.2 s/mm2

Effective Area: 385 mm2

0.0046 s/cc

FIBROUS PARTICULATES ANALYZED

	<u>Number Observed</u>						<u>CONCENTRATION</u>		
				Matrix Struct.	Total. Struct.	Total Struct. >=5um	<u>Filter</u>		<u>Air</u> ngm/m3
	<u>Single Fibers</u>	<u>Bundles</u>	<u>Clusters</u>				<u>Struct/mm2</u>	<u>Struct/cc</u>	
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:

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Report Date: 09/30/01

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

TEM Sample No.: 5585 - 59831

Floors 6-11, Escalators: Floors 5-9

Date Received: 09/30/01

Grid Openings Analyzed: 4

Project Sample No.: SHS-F&E-9/30-19

Average Grid Opening: 106.00 um

Air Volume: 1853 liters

Total Area Analyzed: 0.0450 mm2

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

Analytical Sensitivity: 22.2 s/mm2

Effective Area: 385 mm2

0.0046 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	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:

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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 6-11, Escalators: Floors 5-9

Date Received: 09/30/01

Project Sample No.: SHS-F&E-9/30-20

Air Volume: 1843 liters

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

Effective Area: 385 mm²

TEM Sample No.: 5585 - 59832

Grid Openings Analyzed: 4

Average Grid Opening: 106.00 um

Total Area Analyzed: 0.0450 mm²

Analytical Sensitivity: 22.2 s/mm²

0.0046 s/cc

FIBROUS PARTICULATES ANALYZED

Number Observed

CONCENTRATION

	Number Observed			Total			CONCENTRATION		
	Single Fibers	Bundles	Clusters	Matrix Struct.	Total Struct.	Total Struct. >=5um	Filter Struct/mm ²	Air Struct/cc	Air ngm/m ³
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:

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Long Island City, NY 11101

Approved N.Y. State ELAP #10879
ACCREDITED NVLAP Lab Code # 1187
Report Date: 09/30/01

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 6-11, Escalators: Floors 5-9

Date Received: 09/30/01

Project Sample No.: SHS-F&E-9/30-21

Air Volume: 1853 liters

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

Effective Area: 385 mm2

TEM Sample No.: 5585 - 59833

Grid Openings Analyzed: 4

Average Grid Opening: 106.00 um

Total Area Analyzed: 0.0450 mm2

Analytical Sensitivity: 22.2 s/mm2

0.0046 s/cc

FIBROUS PARTICULATES ANALYZED

Number Observed

CONCENTRATION

	Number Observed			Total			Filter		Air
	Single Fibers	Bundles	Clusters	Matrix Struct.	Total 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	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:

Roman Peysakhov

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

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

N.Y.C. School Construction Authority
30-30 Thomson Avenue
Long Island City, NY 11101

Approved N.Y. State ELAP #10879
ACCREDITED NVLAP Lab Code # 1187
Report Date: 09/30/01

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 6-11, Escalators: Floors 5-9

TEM Sample No.: 5585 - 59834

Date Received: 09/30/01

Grid Openings Analyzed: 4

Project Sample No.: SHS-F&E-9/30-22

Average Grid Opening: 106.00 um

Air Volume: 1853 liters

Total Area Analyzed: 0.0450 mm2

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

Analytical Sensitivity: 22.2 s/mm2

Effective Area: 385 mm2

0.0046 s/cc

FIBROUS PARTICULATES ANALYZED

	<u>Number Observed</u>			Matrix Struct.	Total. Struct.	Total Struct. >=5um	<u>CONCENTRATION</u>		
	<u>Single Fibers</u>	<u>Bundles</u>	<u>Clusters</u>				<u>Filter Struct/mm2</u>	<u>Air Struct/cc</u>	<u>ngm/m3</u>
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:

Roman Peysakhov

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

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ACCREDITED NVLAP Lab Code # 1187
Report Date: 09/30/01

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 6-11, Escalators: Floors 5-9

Date Received: 09/30/01

Project Sample No.: SHS-F&E-9/30-23

Air Volume: 1853 liters

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

Effective Area: 385 mm2

TEM Sample No.: 5585 - 59835

Grid Openings Analyzed: 4

Average Grid Opening: 106.00 um

Total Area Analyzed: 0.0450 mm2

Analytical Sensitivity: 22.2 s/mm2
0.0046 s/cc

FIBROUS PARTICULATES ANALYZED

Number Observed

CONCENTRATION

	Number Observed			Total			CONCENTRATION		
	Single Fibers	Bundles	Clusters	Matrix Struct.	Total Struct.	Total Struct. >=5um	Filter Struct./mm2	Filter Struct./cc	Air 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	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:

Roman Peysakhov

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

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Approved N.Y. State ELAP #10879
ACCREDITED NVLAP Lab Code # 1187
Report Date: 09/30/01

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 6-11, Escalators: Floors 5-9

Date Received: 09/30/01

Project Sample No.: SHS-F&E-9/30-24

Air Volume: 1853 liters

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

Effective Area: 385 mm2

TEM Sample No.: 5585 - 59836

Grid Openings Analyzed: 4

Average Grid Opening: 106.00 um

Total Area Analyzed: 0.0450 mm2

Analytical Sensitivity: 22.2 s/mm2
0.0046 s/cc

FIBROUS PARTICULATES ANALYZED

	<u>Number Observed</u>			Matrix Struct.	Total Struct.	Total Struct. >=5um	<u>CONCENTRATION</u>		
	Single Fibers	Bundles	Clusters				Filter Struct/mm2	Struct/cc	Air 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	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:

Roman Peysakhov

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

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Approved N.Y. State ELAP #10879
ACCREDITED NVLAP Lab Code # 1187
Report Date: 09/30/01

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 6-11, Escalators: Floors 5-9

Date Received: 09/30/01

Project Sample No.: SHS-F&E-9/30-26

Air Volume: 1835 liters

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

Effective Area: 385 mm2

TEM Sample No.: 5585 - 59838

Grid Openings Analyzed: 4

Average Grid Opening: 106.00 um

Total Area Analyzed: 0.0450 mm2

Analytical Sensitivity: 22.2 s/mm2
0.0047 s/cc

FIBROUS PARTICULATES ANALYZED

	<u>Number Observed</u>						<u>CONCENTRATION</u>		
				Matrix	Total.	Total			
	Single			Struct.	Struct.	Struct.	Filter	Air	
	Fibers	Bundles	Clusters	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	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:

Roman Peysakhov

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

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Report Date: 09/30/01

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 6-11, Escalators: Floors 5-9

Date Received: 09/30/01

Project Sample No.: SHS-F&E-9/30-27

Air Volume: 1853 liters

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

Effective Area: 385 mm2

TEM Sample No.: 5585 - 59839

Grid Openings Analyzed: 4

Average Grid Opening: 106.00 um

Total Area Analyzed: 0.0450 mm2

Analytical Sensitivity: 22.2 s/mm2

0.0046 s/cc

FIBROUS PARTICULATES ANALYZED

Number Observed

CONCENTRATION

	Number Observed			Total			CONCENTRATION		
	Single Fibers	Bundles	Clusters	Matrix Struct.	Total Struct.	Total Struct. >=5um	Filter Struct/mm2	Air Struct/cc	Air 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	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:

Roman Peysakhov

Michael A. Gorycki, Ph.D.
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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 6-11, Escalators; Floors 5-9

TEM Sample No.: 5585 - 59840

Date Received: 09/30/01

Grid Openings Analyzed: 4

Project Sample No.: SHS-F&E-9/30-28

Average Grid Opening: 106.00 um

Air Volume: 1853 liters

Total Area Analyzed: 0.0450 mm2

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

Analytical Sensitivity: 22.2 s/mm2
0.0046 s/cc

Effective Area: 385 mm2

FIBROUS PARTICULATES ANALYZED

Number Observed

CONCENTRATION

	Single			Matrix	Total.	Total	Filter		Air
	Fibers	Bundles	Clusters				Struct/mm2	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:

Roman Peysakhov

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

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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 6-11, Escalators: Floors 5-9

Date Received: 09/30/01

Project Sample No.: SHS-F&E-9/30-29

Air Volume: 1843 liters

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

Effective Area: 385 mm2

TEM Sample No.: 5585 - 59841

Grid Openings Analyzed: 4

Average Grid Opening: 106.00 um

Total Area Analyzed: 0.0450 mm2

Analytical Sensitivity: 22.2 s/mm2
0.0046 s/cc

FIBROUS PARTICULATES ANALYZED

	<u>Number Observed</u>						<u>CONCENTRATION</u>		
				Matrix Struct.	Total. Struct.	Total Struct. >=5um	<u>Filter</u>		<u>Air</u> ngm/m3
	<u>Single Fibers</u>	<u>Bundles</u>	<u>Clusters</u>				<u>Struct/mm2</u>	<u>Struct/cc</u>	
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:

Roman Peysakhov

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

CHAIN OF CUSTODY FORM

☐ 2 hrs ☐ 4 hrs ☐ 8 hrs ☐ 16 hrs ☐ 24 hrs ☐ 48 hrs ☐ 72 hrs ☐ Other
☐ 2 hrs ☐ 4 hrs ☐ 8 hrs ☐ 16 hrs ☐ 24 hrs ☐ 48 hrs ☐ 72 hrs ☐ Other

1. Client: **NYC-SEA**
 2. Project Name: **Shyvesant H.S.**
 3. Project Address: **245 Chambers Street**
 4. Project Monitor: **ZB Kowalski**
 5. Date: **02/30/04**
 6. Attachment Location: **11th & 12th Floor**
 7. Project # **2731**
 8. Task # **01**
 9. Task # **01**
 10. Task # **01**
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 97. Task # **01**
 98. Task # **01**
 99. Task # **01**
 100. Task # **01**

10. Sample ID Number	11. Sample Location	12. Sample Coordinates	13. Time (24 hr clock)	14. Start	15. End	16. Total Air Vol. (ft³)	17. Fibers/Flakes Minus Blank	18. Fiber Count
01	10th Floor - Mechanical Room	30 sec	12:35	15:37	182	2.5	2.5	22.4
02	10th Floor - Mechanical Room	30 sec	12:40	15:40	180	2.5	2.5	22.4
03	10th Floor - Mechanical Room	30 sec	12:45	16:04	195	2.5	2.5	22.4
04	10th Floor - Mechanical Room	30 sec	12:50	16:05	195	2.5	2.5	22.4
05	10th Floor - Mechanical Room	30 sec	12:55	16:08	195	2.5	2.5	22.4
06	10th Floor - Mechanical Room	30 sec	12:58	16:10	195	2.5	2.5	22.4
07	10th Floor - Mechanical Room	30 sec	12:59	16:10	195	2.5	2.5	22.4
08	10th Floor - Mechanical Room	30 sec	12:59	16:10	195	2.5	2.5	22.4

19. Analyzed by: **RLP**
 20. Date: **03/01/04**
 21. Time: **13:00/19:00**
 22. Lab Name: **ATC-TEM**
 23. Date: **03/01/04**
 24. Time: **13:00/19:00**
 25. Microscope Make/Serial #: **Nikon Labophot 2000**
 26. Analysis Methodology: **PCM - NIOSH 7400A**
 27. Analyst: **RLP**
 28. Comments: **See attached**
 29. Lab: **GOLDENROB - Field**
 30. Client/Project: **NYC-SEA**

CHAIN OF CUSTODY FORM

☐ 2 hrs ☒ 6 hrs ☐ 48 hrs ☐ Standard
☐ 4 hrs ☐ 24 hrs ☐ 72 hrs ☐ Other

1. Client: **NYC-SCA**
 2. Project Name: **Shaynesant H.S.**
 3. Project Number: **26 Kowalski**
 4. Project Monitor: **M. B. Lora**
 5. Date: **09.30.01**
 6. Acquisition Location: **9th Floor - Room 902**
 7. PM (Project Manager): **Paula M. Lora**
 8. PM (Project Manager): **Paula M. Lora**
 9. PM (Project Manager): **Paula M. Lora**
 10. PM (Project Manager): **Paula M. Lora**
 11. PM (Project Manager): **Paula M. Lora**
 12. PM (Project Manager): **Paula M. Lora**
 13. PM (Project Manager): **Paula M. Lora**
 14. PM (Project Manager): **Paula M. Lora**
 15. PM (Project Manager): **Paula M. Lora**
 16. PM (Project Manager): **Paula M. Lora**
 17. PM (Project Manager): **Paula M. Lora**
 18. PM (Project Manager): **Paula M. Lora**
 19. PM (Project Manager): **Paula M. Lora**
 20. PM (Project Manager): **Paula M. Lora**
 21. PM (Project Manager): **Paula M. Lora**
 22. PM (Project Manager): **Paula M. Lora**
 23. PM (Project Manager): **Paula M. Lora**
 24. PM (Project Manager): **Paula M. Lora**
 25. PM (Project Manager): **Paula M. Lora**
 26. PM (Project Manager): **Paula M. Lora**
 27. PM (Project Manager): **Paula M. Lora**
 28. PM (Project Manager): **Paula M. Lora**
 29. PM (Project Manager): **Paula M. Lora**
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 100. PM (Project Manager): **Paula M. Lora**

DAILY AIR SAMPLE RECORD

10. Sample ID Number	11. Sample Location	12. Sample Date	13. Time (24 hrs clock)	14. Flow Rate (L/min)	15. Total Air Vol (liters)	16. # Filters/Flasks	17. Filter Unit
	Field Blank						
	Field Blank						
090	9th Floor - Room 902		12:57	9.5	9.5	18415	<22.4
	9th Floor - hallway						
100	Across Room 902		12:53	9.5	9.5	18420	<22.4
	9th Floor - Room 902						
110	Across the Room		13:01	9.5	9.5	18525	<22.4
	9th Floor - West Stair						
120	Across the hallway		13:04	9.5	9.5	18525	<22.4
	8th Floor - West Stair						
130	Across the hallway		13:12	9.5	9.5	18415	<22.4
	8th Floor - Room 827						
140	Across the hallway		13:15	9.5	9.5	18525	<22.4

CHAIN OF CUSTODY

18. Requested By: **Paula M. Lora**
 19. Received By: **Paula M. Lora**
 20. Date: **09.30.01**
 21. Time: **9:00**
 22. Lab Name: **ATC-TEM**
 23. Date: **09.30.01**
 24. Time: **9:00**
 25. Microscope Make/Serial #: **Nikon Labophot 230013**
 26. Microscope Make/Serial #: **Nikon Labophot 230017**
 27. Microscope Make/Serial #: **Nikon Labophot 230078**
 28. Analysis Methodology: **PCM - NIOSH 7400A**
 29. Analysis Methodology: **TEM - AHERA**
 30. Project Manager: **Paula M. Lora**
 31. Result To: **Paula M. Lora**
 32. Result To: **Paula M. Lora**
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 100. Result To: **Paula M. Lora**

CHAIN OF CUSTODY FORM

PROJECT INFORMATION

Client: NYC - OCA

Project Name: Shawmut #5

Project # 2/203-067

Project Monitor: 2.6. Kowalski

14c. Rotameter Number: 172104

22. From Address: 305 Chambers Street

23. Task # 01

24. Air Sampler: MA 8 A-10779

1. Ambient Location: 8th Floor Hall

2. Type: ☒ Ambient ☐ Background ☐ Pre-Abate

3. Type: ☐ Abatement ☐ Post-Abate ☐ OSHA

11. Sample Location: Field Blank

12. Sample Coordinates: Field Blank

13. Time (24 hrs clock): 13:16

14. Day (Mon-Fri): 9.5

15. Total Air Vol. (liters): 195

16. Flow Rate (L/min): 22.4

Sample ID Number	Pump Number	Sample Location	Time (24 hrs clock)			Day (Mon-Fri)			Total Air Vol. (liters)	Flow Rate (L/min)	Flow Rate - PPM
			Start	End	Time	Start	End	Time			
15	0038	8th Floor - hallway	13:16	16:31	195	9.5	9.5	195	22.4	22.4	
16	0071	8th Floor - Room #203	13:18	16:33	195	9.5	9.5	195	22.4	22.4	
17	0090	8th Floor - hallway	13:22	16:34	195	9.5	9.5	195	22.4	22.4	
18	0028	8th Floor - hallway	13:24	16:37	195	9.5	9.5	195	22.4	22.4	
19	0055	8th Floor - West Stair	13:27	16:42	195	9.5	9.5	195	22.4	22.4	
20	0075	8th Floor - Room #203	13:29	16:43	194	9.5	9.5	194	22.4	22.4	

CHAIN OF CUSTODY				LAB INFORMATION (ATC/ELAP # 10579, ATC/NVLAP # 1187)			
18. Requested By:		19. Received By:		22. Lab Name:		25. Microscope Make/Serial #:	
I. J. G. Loh		PRY		ATC-TECH		☐ Nikon Labophot 230013 ☐ Nikon Labophot 230017 ☐ Nikon Labophot 230079	
20. Date:		21. Time:		23. Date:		24. Time:	
9/30/01		19:00		9/30/01		22:00	
26. ATE Project Manager:		27. Route To:		28. Comments:		Analysis Methodology:	
Demi Sanchez		Demi Sanchez				POM - NIOSH 17400A TEM - AHERA	
29. Client/Plant #:		30. Yellow Client/Report #:		31. Lab		32. GENPRO - Field	

5585 CHAIN OF CUSTODY FORM

PROJECT INFORMATION

1. Client: NYC-SCA

2. Project Name: 5th Avenue H.S.

3. Project # 2243-067

4. Project Monitor: ZB Kowalski

4c. Rotameter Number: 110-104

5. Date: 09.30.01

6. Measurement Location: Escalators

7. ☒ FOM (31 days max)

8. ☒ TEM (31 days max)

9. Type: Background

10. ☒ Abatement

11. ☒ Post-Abate

12. ☒ OSHA

13. ☐ Environmental

14. ☐ Ambient

15. ☐ Other

DAILY AIR SAMPLE RECORD

Sample ID Number	Sample Location	13a. Start	13b. End	13c. Time	14. Flow Rate (L/min)	15. Total Air Vol (liters)	16. Fibers/Field	17. Fibers/Blank
27	Escalator - 6th Flr. In the center	13:55	14:14	19:5	9.5	1852.5	<22.4	
28	Escalator - 3rd Flr. In the center	14:02	14:24	19:5	9.5	1852.5	<22.4	
29	Escalator - 2nd Flr. In the center	14:06	14:20	19:4	9.5	1843.0	<22.4	
30	Field Blank							
31	Sealed Blank							

CHAIN OF CUSTODY

18. Received by: RRK

19. Date: 9.30.01

20. Time: 19:00

21. Name To: Peter Sanchez

22. Name From: Peter Sanchez

23. Date: 9.30.01

24. Time: 22:00

25. Microscope Make/Serial #: Nikon Labophot 238913

26. Analysis Methodology: PCM - NIOSH 7400A

27. Analysis Methodology: TEM - AHERA

28. Comments: RRK

29. Lab: GOLDENROD-Field

30. File: WHITE-File

31. Yellow-Client/Supplier: YELLOW-Client/Supplier

32. Signature: Peter Sanchez

33. Signature: Peter Sanchez

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100. Signature: Peter Sanchez

PROJECT INFORMATION

1. Client: NYC 9/11

2. Project Name: Expenditure #5

3. Project Address: 345 Chambers St

4. Project Monitor: 28 Kowalski

5. Date: 09/30/01

6. Assessment Location: 6th Floor

7. Project Number: 100-109

8. Project Manager: M. Balcera

9. Project Start Date: 09/28/01

10. Project End Date: 09/28/01

11. Project Status: Completed

12. Sample Location: 6th Floor - Gym

13. Sample Date: 09/30/01

14. Sample Time: 13:38

15. Sample Duration: 15

16. Sample Volume: 1852.5

17. Sample Weight: <22.4

Sample ID	Sample Location	Sample Date	Sample Time	Sample Duration	Sample Volume	Sample Weight
21	6th Floor - Gym	09/30/01	13:38	15	1852.5	<22.4
22	6th Floor - Gym	09/30/01	13:40	15	1852.5	<22.4
23	6th Floor - Gym	09/30/01	13:42	15	1852.5	<22.4
24	6th Floor - Gym	09/30/01	13:44	15	1852.5	<22.4
25	6th Floor - Gym	09/30/01	13:46	15	1852.5	<22.4
26	6th Floor - Gym	09/30/01	13:48	15	1852.5	<22.4

CHAIN OF CUSTODY

18. Project Manager: NYC 9/11

19. Project Number: 100-109

20. Project Start Date: 09/28/01

21. Project End Date: 09/28/01

22. Project Status: Completed

23. Sample Location: 6th Floor - Gym

24. Sample Date: 09/30/01

25. Sample Time: 13:38

26. Sample Duration: 15

27. Sample Volume: 1852.5

28. Sample Weight: <22.4

29. Project Manager: NYC 9/11

30. Project Number: 100-109

31. Project Start Date: 09/28/01

32. Project End Date: 09/28/01

33. Project Status: Completed

Sample ID	Sample Location	Sample Date	Sample Time	Sample Duration	Sample Volume	Sample Weight
21	6th Floor - Gym	09/30/01	13:38	15	1852.5	<22.4
22	6th Floor - Gym	09/30/01	13:40	15	1852.5	<22.4
23	6th Floor - Gym	09/30/01	13:42	15	1852.5	<22.4
24	6th Floor - Gym	09/30/01	13:44	15	1852.5	<22.4
25	6th Floor - Gym	09/30/01	13:46	15	1852.5	<22.4
26	6th Floor - Gym	09/30/01	13:48	15	1852.5	<22.4



AIR MONITORING DATA AND CHAIN OF CUSTODY FORM

Page 1 of 1

TURNAROUND TIME

☐ 2 hrs ☐ 6 hrs ☐ 48 hrs ☐ Standard
☐ 4 hrs ☐ 24 hrs ☐ 72 hrs ☐ Other 1 day

PROJECT INFORMATION

1. Client: NYC - SCA	2. Project Name Supervisors High School	3. Project # 3a. Task #	4. Project Monitor: M. BALOTH	4c. Rotameter Number: H0-090
5. Date: 09.26.01	2a. Project Address 345 Chambers Street	7. ☒ PCM (0.3 micron MCE) Cassette/Filter Manufacturer MWH-Metric Lot # 915	4a. Air Sampler: UNION PHILLIPS	9. Type: a. ☐ Background b. ☒ Pre-Abate c. ☐ Abatement d. ☐ Post-Abate e. ☐ OSHA f. ☐ Environmental g. ☒ Ambient h. ☐ Other

DAILY AIR SAMPLE RECORD

10. Sample I.D. Number	11. Pump Number	12. Sample Location		13. Time (24 hrs clock)			14. Flow Rate (L/min.)		15. Total Air Vol. (liters)	16. # Fibers/Fields Minus Blank	17. Fiber Conc. F/CC
		12a. TWA	12b. OWA	13a. Start	13b. End	13c. Total	14a. Start	14b. End			
01										0/100	
02										0/100	
03	872	V		12.30	14.30	120	10.0	10.0	1200.	3/100	<0.004
04	903	V		12.31	14.31	120	10.0	10.0	1200.	1/100	<0.004
05	915	V		12.33	14.33	120	10.0	10.0	1200.	1/100	<0.004
06	886	V		12.34	14.34	120	10.0	10.0	1200.	2/100	<0.004
07	925	V		12.35	14.35	120	10.0	10.0	1200.	3/100	<0.004

CHAIN OF CUSTODY

18. Relinquished By: I M. Balot	19. Received By: RHO	20. Date: 09/26/01	21. Time: 01:00
II			
III			

26. ATC Project Manager: Remi Sanchez	27. Result To: Remi Sanchez
Beeper/Phone #s ATC ext 273	

LAB INFORMATION (ATC ELAP # 10879, ATC NVLAP # 1187)

22. Lab Name: RHO	23. Date: 09/26/01	24. Time: 21:25
a. Analyzed By:		
b. QC By:		
c. Lab Batch #:	97136	

25. Microscopy Method/Serial #: ☒ Nikon Labophot 238917 ☐ Nikon Labophot 238918 ☐ Nikon Labophot 238919	28. Comments:
Analysis Methodology ☒ PCM - NIOSH 7400A TEM - AHERA	

PINK - Lab GOLDENROD - Field

WHITE - File YELLOW - Client/Report

NY-1 (1/01)



104 East 25th Street
New York, New York 10010
www.atc-enviro.com
212.353.8280
Fax 212.353.8306

October 04, 2001

N.Y.C. School Construction Authority
30-30 Thomson Avenue
Long Island City, NY 11101
Attn: Mr. Hamid Savoj

15-21203-0067

Re: Report of TEM Analysis

Dear Mr. Savoj:

Following are the results of transmission electron microscopy (TEM) analysis of air samples from our Group No. 5595:

Project Name: Stuyvesant H.S., 345 Chambers St., NY, NY
Location: Floors 2-5, Escalators
Samples received: 10/03/01

These results will confirm and document the data transmitted today to Mr. Michael Parpounas, Director of Asbestos Services, of our office. The analyses were performed in strict conformance with the methodology of the AHERA Final Rule (CFR October 30, 1987) for clearance of abatement sites. As indicated on the attached Summary Results sheet, less than 70 asbestos structures per mm² was detected in all of the twenty-six inside samples submitted from the site.

Copies of the bench sheets are also included as stipulated by AHERA. Multi-Metrics TEM cassettes, Lot No. 266916, were used. Results reported as Struct/cc are a function of air volume collected in the field and are, as such, not verifiable by this laboratory. This report may be reproduced only in its entirety and not without prior permission of this laboratory. If post-abatement inside samples pass, the response action may be considered to have been completed. The analyses were supervised by Dr. Michael A. Gorycki, Director of Electron Microscopy.

We are pleased to note that our TEM lab has received full accreditation from NVLAP, as is currently required for recognized analysis of TEM air samples for AHERA projects, and also approval under the NY State DOH ELAP program. These analyses were performed by ATC d/b/a ATC Associates Inc. Please contact me regarding any questions relating to these materials.

Very truly yours,

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

ATC ENVIRONMENTAL, INC.
104 East 25th Street
New York, NY 10010

APPROVED NY STATE DOH ELAP # 10879
ACCREDITED NVLAP Lab Code # 1187

Summary of TEM Results

N.Y.C. School Construction Authority
30-30 Thomson Avenue
Long Island City, NY 11101
Mr. Hamid Savoj

DATE: 10/04/01

Project/Site Identification: Stuyvesant H.S., 345 Chambers St., NY, NY
Floors 2-5, Escalators

CONCLUSION:

STATISTICAL SUMMARY

1) Inside Samples

TEM#	Project #	Volume(l)	<u>Asbestos Concentration</u>		
			<u>S/mm²</u>	<u>S/cc</u>	<u>ngm/m³</u>
5595- 59935	SHS-2>5, E-10/3-03	1863	0.0	0.0046 *	
5595- 59936	SHS-2>5, E-10/3-04	1863	0.0	0.0046 *	
5595- 59937	SHS-2>5, E-10/3-05	1863	0.0	0.0046 *	
5595- 59938	SHS-2>5, E-10/3-06	1863	0.0	0.0046 *	
5595- 59939	SHS-2>5, E-10/3-07	1863	0.0	0.0046 *	
5595- 59940	SHS-2>5, E-10/3-08	1863	0.0	0.0046 *	
5595- 59941	SHS-2>5, E-10/3-09	1863	0.0	0.0046 *	
5595- 59942	SHS-2>5, E-10/3-10	1863	0.0	0.0046 *	
5595- 59943	SHS-2>5, E-10/3-11	1863	0.0	0.0046 *	
5595- 59944	SHS-2>5, E-10/3-12	1863	0.0	0.0046 *	
5595- 59945	SHS-2>5, E-10/3-13	1863	0.0	0.0046 *	
5595- 59946	SHS-2>5, E-10/3-14	1863	0.0	0.0046 *	
5595- 59947	SHS-2>5, E-10/3-15	1863	0.0	0.0046 *	
5595- 59948	SHS-2>5, E-10/3-16	1863	0.0	0.0046 *	
5595- 59949	SHS-2>5, E-10/3-17	1863	0.0	0.0046 *	
5595- 59950	SHS-2>5, E-10/3-18	1863	0.0	0.0046 *	
5595- 59951	SHS-2>5, E-10/3-19	1863	0.0	0.0046 *	
5595- 59952	SHS-2>5, E-10/3-20	1863	0.0	0.0046 *	
5595- 59953	SHS-2>5, E-10/3-21	1863	0.0	0.0046 *	
5595- 59954	SHS-2>5, E-10/3-22	1863	0.0	0.0046 *	
5595- 59955	SHS-2>5, E-10/3-23	1863	0.0	0.0046 *	
5595- 59956	SHS-2>5, E-10/3-24	1863	0.0	0.0046 *	
5595- 59957	SHS-2>5, E-10/3-25	1863	0.0	0.0046 *	
5595- 59958	SHS-2>5, E-10/3-26	1863	0.0	0.0046 *	
5595- 59959	SHS-2>5, E-10/3-27	1863	0.0	0.0046 *	
5595- 59960	SHS-2>5, E-10/3-28	1863	22.2	0.0046	
		Average=	0.9	0.0046	6

2) Outside Samples

TEM#	Project #	Volume(l)	<u>Asbestos Concentration</u>		
			<u>S/mm^2</u>	<u>S/cc</u>	<u>ngm/m^3</u>
			Average=	N/A	N/A

3) Blanks

TEM#	Project #		<u>Asbestos Concentration</u>		
			<u>S/mm²</u>	<u>S/cc</u>	<u>ngm/m³</u>
5595- 59933	SHS-2>5, E-10/3-01		- - - - -	Not Analyzed	- - - - -
5595- 59934	SHS-2>5, E-10/3-02		- - - - -	Not Analyzed	- - - - -
5595- 59961	SHS-2>5, E-10/3-29		- - - - -	Not Analyzed	- - - - -
5595- 59962	SHS-2>5, E-10/3-30		- - - - -	Not Analyzed	- - - - -
		Average=	N/A	N/A	N/A

4) Value of T - Statistic : N/A

* None detected; concentration equivalent to analytical sensitivity assigned.

This test report relates only to the specific items cited in the analysis.

The analysis was carried out according to the approved TEM method. The laboratory is in compliance with the quality specified for the method.

This report must not be used by the client to claim product endorsement by NVLAP or any agency of the U.S. Government.

RP

Analyzed by:
Roman Peysakhov



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

ATC Environmental, Inc.
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Approved N.Y. State ELAP #10879
ACCREDITED NVLAP Lab Code # 1187
Report Date: 10/04/01

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

Project/Site: Stuyvesant H.S., 345 Chambers St., NY, NY
Floors 2-5, Escalators

Date Received: 10/03/01

Project Sample No.: SHS-2>5,E-10/3-03

Air Volume: 1863 liters

Filter Type: MCE 25 mm diam., Pore Size: 0.45 um
Effective Area: 385 mm2

Analysis Parameters

TEM Sample No.: 5595 - 59935

Grid Openings Analyzed: 4

Average Grid Opening: 106.00 um

Total Area Analyzed: 0.0450 mm2

Analytical Sensitivity: 22.2 s/mm2
0.0046 s/cc

FIBROUS PARTICULATES ANALYZED

	<u>Number Observed</u>			<u>Matrix</u>	<u>Total</u>	<u>Total</u>
	<u>Single</u>	<u>Bundles</u>	<u>Clusters</u>	<u>Struct.</u>	<u>Struct.</u>	<u>Struct.</u>
	<u>Fibers</u>					<u>>=5um</u>
Chrysotile Asbestos	0	0	0	0	0	0
Amphibole Asbestos	0	0	0	0	0	0
Ambiguous	0	0	0	0	0	0
Total asbestos (includes ambiguous structures)					0	0
Non-Asbestos	0	0	0	0	0	0
No Identification	0	0	0	0	0	0
Totals (All Structures)					0	0

Totals (All Structures)

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:

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Approved N.Y. State ELAP #10879
ACCREDITED NVLAP Lab Code # 118
Report Date: 10/04/01

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 2-5, Escalators

Date Received: 10/03/01

Project Sample No.: SHS-2>5,E-10/3-04

Air Volume: 1863 liters

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

Effective Area: 385 mm2

TEM Sample No.: 5595 - 59936

Grid Openings Analyzed: 4

Average Grid Opening: 106.00 um

Total Area Analyzed: 0.0450 mm2

Analytical Sensitivity: 22.2 s/mm2

0.0046 s/cc

FIBROUS PARTICULATES ANALYZED

	<u>Number Observed</u>						<u>CONCENTRATION</u>		
				Matrix	Total.	Total	<u>Filter</u>		<u>Air</u>
	Single Fibers	Bundles	Clusters	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	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:

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Report Date: 10/04/01

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

TEM Sample No.: 5595 - 59937

Floors 2-5, Escalators

Grid Openings Analyzed: 4

Date Received: 10/03/01

Average Grid Opening: 106.00 um

Project Sample No.: SHS-2>5,E-10/3-05

Total Area Analyzed: 0.0450 mm2

Air Volume: 1863 liters

Analytical Sensitivity: 22.2 s/mm2

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

Effective Area: 385 mm2

0.0046 s/cc

FIBROUS PARTICULATES ANALYZED

	<u>Number Observed</u>						<u>CONCENTRATION</u>			
				Total			Filter		Air	
	Single			Matrix	Total.	Total				
	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	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:

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Report Date: 10/04/01

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 2-5, Escalators

Date Received: 10/03/01

Project Sample No.: SHS-2>5,E-10/3-06

Air Volume: 1863 liters

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

Effective Area: 385 mm2

TEM Sample No.: 5595 - 59938

Grid Openings Analyzed: 4

Average Grid Opening: 106.00 um

Total Area Analyzed: 0.0450 mm2

Analytical Sensitivity: 22.2 s/mm2

0.0046 s/cc

FIBROUS PARTICULATES ANALYZED

	<u>Number Observed</u>						<u>CONCENTRATION</u>		
				Matrix	Total.	Total	<u>Filter</u>		<u>Air</u>
	Single Fibers	Bundles	Clusters	Struct.	Struct.	>=5um Struct.	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	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:

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Report Date: 10/04/01

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 2-5, Escalators

Date Received: 10/03/01

Project Sample No.: SHS-2>5,E-10/3-08

Air Volume: 1863 liters

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

Effective Area: 385 mm2

TEM Sample No.: 5595 - 59940

Grid Openings Analyzed: 4

Average Grid Opening: 106.00 um

Total Area Analyzed: 0.0450 mm2

Analytical Sensitivity: 22.2 s/mm2
0.0046 s/cc

FIBROUS PARTICULATES ANALYZED

Number Observed

CONCENTRATION

	Number Observed			Total			Filter		Air
	Single Fibers	Bundles	Clusters	Matrix Struct.	Total. 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	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:

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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 2-5, Escalators

TEM Sample No.: 5595 - 59941

Date Received: 10/03/01

Grid Openings Analyzed: 4

Project Sample No.: SHS-2>5,E-10/3-09

Average Grid Opening: 106.00 um

Air Volume: 1863 liters

Total Area Analyzed: 0.0450 mm2

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

Analytical Sensitivity: 22.2 s/mm2

Effective Area: 385 mm2

0.0046 s/cc

FIBROUS PARTICULATES ANALYZED

Number Observed

CONCENTRATION

	<u>Number Observed</u>			<u>CONCENTRATION</u>			<u>Filter</u>		<u>Air</u>
	<u>Single</u>	<u>Bundles</u>	<u>Clusters</u>	<u>Matrix</u>	<u>Total.</u>	<u>Total</u>	<u>Struct/mm2</u>	<u>Struct/cc</u>	<u>ngm/m3</u>
	<u>Fibers</u>			<u>Struct.</u>	<u>Struct.</u>	<u>>=5um</u>			
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:

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Report Date: 10/04/01

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 2-5, Escalators

Date Received: 10/03/01

Project Sample No.: SHS-2>5,E-10/3-10

Air Volume: 1863 liters

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

Effective Area: 385 mm2

TEM Sample No.: 5595 - 59942

Grid Openings Analyzed: 4

Average Grid Opening: 106.00 um

Total Area Analyzed: 0.0450 mm2

Analytical Sensitivity: 22.2 s/mm2
0.0046 s/cc

FIBROUS PARTICULATES ANALYZED

Number Observed

CONCENTRATION

	<u>Number Observed</u>			<u>CONCENTRATION</u>		
	Single Fibers	Bundles	Matrix Clusters	Total Struct. >=5um	Filter Struct/mm2	Air Struct/cc ngm/m3
Chrysotile Asbestos	0	0	0	0	0.0	0.0000
Amphibole Asbestos	0	0	0	0	0.0	0.0000
Ambiguous	0	0	0	0	0.0	0.0000
Total asbestos (includes ambiguous structures)				0	0.0	0.0000
Non-Asbestos	0	0	0	0	0.0	0.0000
No Identification	0	0	0	0	0.0	0.0000
Totals (All Structures)				0	0.0	0.0000

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:

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Report Date: 10/04/01

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 2-5, Escalators

Date Received: 10/03/01

Project Sample No.: SHS-2>5,E-10/3-11

Air Volume: 1863 liters

Filter Type: MCE 25 mm diam., Pore Size: 0.45 um
Effective Area: 385 mm2

TEM Sample No.: 5595 - 59943

Grid Openings Analyzed: 4

Average Grid Opening: 106.00 um

Total Area Analyzed: 0.0450 mm2

Analytical Sensitivity: 22.2 s/mm2
0.0046 s/cc

FIBROUS PARTICULATES ANALYZED

Number Observed

CONCENTRATION

	<u>Number Observed</u>			<u>CONCENTRATION</u>		
	<u>Single Fibers</u>	<u>Bundles</u>	<u>Clusters</u>	<u>Matrix Struct.</u>	<u>Total Struct. >=5um</u>	<u>Filter Struct/mm2</u>
Chrysotile Asbestos	0	0	0	0	0	0.0
Amphibole Asbestos	0	0	0	0	0	0.0
Ambiguous	0	0	0	0	0	0.0
Total asbestos (includes ambiguous structures)					0	0.0
Non-Asbestos	0	0	0	0	0	0.0
No Identification	0	0	0	0	0	0.0
Totals (All Structures)					0	0.0

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:

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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

TEM Sample No.: 5595 - 59944

Floors 2-5, Escalators

Grid Openings Analyzed: 4

Date Received: 10/03/01

Average Grid Opening: 106.00 um

Project Sample No.: SHS-2>5,E-10/3-12

Total Area Analyzed: 0.0450 mm2

Air Volume: 1863 liters

Analytical Sensitivity: 22.2 s/mm2
0.0046 s/cc

Filter Type: MCE 25 mm diam., Pore Size: 0.45 um
Effective Area: 385 mm2

FIBROUS PARTICULATES ANALYZED

Number Observed

CONCENTRATION

	<u>Number Observed</u>			<u>CONCENTRATION</u>		
	Single Fibers	Bundles	Clusters	Matrix Struct.	Total Struct. >=5um	
				Struct.	Struct.	
Chrysotile Asbestos	0	0	0	0	0	0.0
Amphibole Asbestos	0	0	0	0	0	0.0
Ambiguous	0	0	0	0	0	0.0
Total asbestos (includes ambiguous structures)					0	0.0
Non-Asbestos	0	0	0	0	0	0.0
No Identification	0	0	0	0	0	0.0
Totals (All Structures)					0	0.0

Filter Air
Struct/mm2 Struct/cc ngm/m3

0.0000 0

0.0000 0

0.0000 0

0.0000 0

0.0000 N/A

0.0000 N/A

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:

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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 2-5, Escalators

Date Received: 10/03/01

Project Sample No.: SHS-2>5,E-10/3-13

Air Volume: 1863 liters

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

Effective Area: 385 mm2

TEM Sample No.: 5595 - 59945

Grid Openings Analyzed: 4

Average Grid Opening: 106.00 um

Total Area Analyzed: 0.0450 mm2

Analytical Sensitivity: 22.2 s/mm2
0.0046 s/cc

FIBROUS PARTICULATES ANALYZED

Number Observed

CONCENTRATION

	<u>Number Observed</u>			Matrix Struct.	Total. Struct.	Total Struct. >=5um	<u>CONCENTRATION</u>		Air ngm/m3
	Single Fibers	Bundles	Clusters				Filter Struct/mm2	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:

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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 2-5, Escalators

Date Received: 10/03/01

Project Sample No.: SHS-2>5,E-10/3-14

Air Volume: 1863 liters

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

Effective Area: 385 mm2

TEM Sample No.: 5595 - 59946

Grid Openings Analyzed: 4

Average Grid Opening: 106.00 um

Total Area Analyzed: 0.0450 mm2

Analytical Sensitivity: 22.2 s/mm2
0.0046 s/cc

FIBROUS PARTICULATES ANALYZED

Number Observed

Total
Struct.

	Single			Matrix	Total.	Total
	Fibers	Bundles	Clusters	Struct.	Struct.	Struct. >=5um
Chrysotile Asbestos	0	0	0	0	0	0
Amphibole Asbestos	0	0	0	0	0	0
Ambiguous	0	0	0	0	0	0
Total asbestos (includes ambiguous structures)					0	0
Non-Asbestos	0	0	0	0	0	0
No Identification	0	0	0	0	0	0
Totals (All Structures)					0	0

The estimated uncertainty of this analysis is 1 standard deviation.

CONCENTRATION

Filter		Air
Struct/mm2	Struct/cc	ngm/m3
0.0	0.0000	0
0.0	0.0000	0
0.0	0.0000	0
0.0	0.0000	0
0.0	0.0000	0
0.0	0.0000	N/A
0.0	0.0000	N/A
0.0	0.0000	N/A

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

ATC Environmental, Inc.
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New York, New York 10010

N.Y.C. School Construction Authority
30-30 Thomson Avenue
Long Island City, NY 11101

Approved N.Y. State ELAP #10879
ACCREDITED NVLAP Lab Code # 1187
Report Date: 10/04/01

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 2-5, Escalators

Date Received: 10/03/01

Project Sample No.: SHS-2>5,E-10/3-15

Air Volume: 1863 liters

Filter Type: MCE 25 mm diam., Pore Size: 0.45 um
Effective Area: 385 mm2

TEM Sample No.: 5595 - 59947

Grid Openings Analyzed: 4

Average Grid Opening: 106.00 um

Total Area Analyzed: 0.0450 mm2

Analytical Sensitivity: 22.2 s/mm2
0.0046 s/cc

FIBROUS PARTICULATES ANALYZED

	<u>Number Observed</u>						<u>CONCENTRATION</u>		
				Matrix	Total.	Total	<u>Filter</u>		<u>Air</u>
	<u>Fibers</u>	<u>Bundles</u>	<u>Clusters</u>	<u>Struct.</u>	<u>Struct.</u>	<u>>=5um</u>	<u>Struct./mm2</u>	<u>Struct/cc</u>	<u>ngm/m3</u>
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:

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ACCREDITED NVLAP Lab Code # 1187
Report Date: 10/04/01

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 2-5, Escalators

Date Received: 10/03/01

Project Sample No.: SHS-2>5,E-10/3-16

Air Volume: 1863 liters

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

Effective Area: 385 mm2

TEM Sample No.: 5595 - 59948

Grid Openings Analyzed: 4

Average Grid Opening: 106.00 um

Total Area Analyzed: 0.0450 mm2

Analytical Sensitivity: 22.2 s/mm2
0.0046 s/cc

FIBROUS PARTICULATES ANALYZED

Number Observed

CONCENTRATION

	Number Observed			Total			Filter		Air
	Single Fibers	Bundles	Clusters	Matrix Struct.	Total. 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	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:

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Report Date: 10/04/01

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 2-5, Escalators

Date Received: 10/03/01

Project Sample No.: SHS-2>5,E-10/3-17

Air Volume: 1863 liters

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

Effective Area: 385 mm2

TEM Sample No.: 5595 - 59949

Grid Openings Analyzed: 4

Average Grid Opening: 106.00 um

Total Area Analyzed: 0.0450 mm2

Analytical Sensitivity: 22.2 s/mm2
0.0046 s/cc

FIBROUS PARTICULATES ANALYZED

Number Observed

CONCENTRATION

	<u>Number Observed</u>			Matrix Struct.	Total. Struct.	Total Struct. >=5um	<u>CONCENTRATION</u>		
	Single Fibers	Bundles	Clusters				Filter Struct./mm2	Struct/cc	Air 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	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:

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Approved N.Y. State ELAP #10879
ACCREDITED NVLAP Lab Code # 118
Report Date: 10/04/01

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 2-5, Escalators

Date Received: 10/03/01

Project Sample No.: SHS-2>5,E-10/3-18

Air Volume: 1863 liters

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

Effective Area: 385 mm2

TEM Sample No.: 5595 - 59950

Grid Openings Analyzed: 4

Average Grid Opening: 106.00 um

Total Area Analyzed: 0.0450 mm2

Analytical Sensitivity: 22.2 s/mm2

0.0046 s/cc

FIBROUS PARTICULATES ANALYZED

Number Observed

CONCENTRATION

	<u>Number Observed</u>			<u>CONCENTRATION</u>		
	Single Fibers	Bundles	Clusters	Matrix Struct.	Total Struct. >=5um	Filter Struct/mm2
Chrysotile Asbestos	0	0	0	0	0	0.0
Amphibole Asbestos	0	0	0	0	0	0.0
Ambiguous	0	0	0	0	0	0.0
Total asbestos (includes ambiguous structures)					0	0.0
Non-Asbestos	0	0	0	0	0	0.0
No Identification	0	0	0	0	0	0.0
Totals (All Structures)					0	0.0

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:

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Approved N.Y. State ELAP #10879
ACCREDITED NVLAP Lab Code # 1187
Report Date: 10/04/01

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 2-5, Escalators

Date Received: 10/03/01

Project Sample No.: SHS-2>5,E-10/3-19

Air Volume: 1863 liters

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

Effective Area: 385 mm2

TEM Sample No.: 5595 - 59951

Grid Openings Analyzed: 4

Average Grid Opening: 106.00 um

Total Area Analyzed: 0.0450 mm2

Analytical Sensitivity: 22.2 s/mm2

0.0046 s/cc

FIBROUS PARTICULATES ANALYZED

Number Observed

CONCENTRATION

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

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Report Date: 10/04/01

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 2-5, Escalators

Date Received: 10/03/01

Project Sample No.: SHS-2>5,E-10/3-20

Air Volume: 1863 liters

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

Effective Area: 385 mm2

TEM Sample No.: 5595 - 59952

Grid Openings Analyzed: 4

Average Grid Opening: 106.00 um

Total Area Analyzed: 0.0450 mm2

Analytical Sensitivity: 22.2 s/mm2
0.0046 s/cc

FIBROUS PARTICULATES ANALYZED

Number Observed

CONCENTRATION

	<u>Number Observed</u>			<u>CONCENTRATION</u>		
	Single Fibers	Bundles	Clusters	Matrix Struct.	Total Struct. >=5um	
Chrysotile Asbestos	0	0	0	0	0	0
Amphibole Asbestos	0	0	0	0	0	0
Ambiguous	0	0	0	0	0	0
Total asbestos (includes ambiguous structures)					0	0
Non-Asbestos	0	0	0	0	0	0
No Identification	0	0	0	0	0	0
Totals (All Structures)					0	0

Filter
Struct/mm2 Struct/cc ngm/m3

0.0 0.0000 0

0.0 0.0000 0

0.0 0.0000 0

0.0 0.0000 0

0.0 0.0000 N/A

0.0 0.0000 N/A

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:

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Approved N.Y. State ELAP #10879
ACCREDITED NVLAP Lab Code # 1187
Report Date: 10/04/01

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 2-5, Escalators

Date Received: 10/03/01

Project Sample No.: SHS-2>5,E-10/3-21

Air Volume: 1863 liters

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

Effective Area: 385 mm²

TEM Sample No.: 5595 - 59953

Grid Openings Analyzed: 4

Average Grid Opening: 106.00 um

Total Area Analyzed: 0.0450 mm²

Analytical Sensitivity: 22.2 s/mm²

0.0046 s/cc

FIBROUS PARTICULATES ANALYZED

Number Observed

CONCENTRATION

	<u>Number Observed</u>			<u>CONCENTRATION</u>		
	Single Fibers	Bundles	Matrix Struct.	Total Struct. >=5um	Filter Struct/mm ²	Air Struct/cc ngm/m ³
Chrysotile Asbestos	0	0	0	0	0.0	0.0000
Amphibole Asbestos	0	0	0	0	0.0	0.0000
Ambiguous	0	0	0	0	0.0	0.0000
Total asbestos (includes ambiguous structures)				0	0.0	0.0000
Non-Asbestos	0	0	0	0	0.0	0.0000
No Identification	0	0	0	0	0.0	0.0000
Totals (All Structures)				0	0.0	0.0000

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:

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Approved N.Y. State ELAP #10879
ACCREDITED NVLAP Lab Code # 118
Report Date: 10/04/01

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

Project/Site: Stuyvesant H.S., 345 Chambers St., NY, NY

Floors 2-5, Escalators

Date Received: 10/03/01

Project Sample No.: SHS-2>5,E-10/3-22

Air Volume: 1863 liters

Filter Type: MCE 25 mm diam., Pore Size: 0.45 um
Effective Area: 385 mm2

Analysis Parameters

TEM Sample No.: 5595 - 59954

Grid Openings Analyzed: 4

Average Grid Opening: 106.00 um

Total Area Analyzed: 0.0450 mm2

Analytical Sensitivity: 22.2 s/mm2
0.0046 s/cc

FIBROUS PARTICULATES ANALYZED

	<u>Number Observed</u>						<u>CONCENTRATION</u>		
				Matrix	Total.	Total	<u>Filter</u>		<u>Air</u>
	<u>Fibers</u>	<u>Bundles</u>	<u>Clusters</u>	<u>Struct.</u>	<u>Struct.</u>	<u>>=5um</u>	<u>Struct/mm2</u>	<u>Struct/cc</u>	<u>ngm/m3</u>
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:

Roman Peysakhov

Report Reviewed by:

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Report Date: 10/04/01

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 2-5, Escalators

Date Received: 10/03/01

Project Sample No.: SHS-2>5,E-10/3-23

Air Volume: 1863 liters

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

Effective Area: 385 mm2

TEM Sample No.: 5595 - 59955

Grid Openings Analyzed: 4

Average Grid Opening: 106.00 um

Total Area Analyzed: 0.0450 mm2

Analytical Sensitivity: 22.2 s/mm2

0.0046 s/cc

FIBROUS PARTICULATES ANALYZED

Number Observed

CONCENTRATION

	<u>Number Observed</u>			<u>CONCENTRATION</u>		
	Single Fibers	Bundles	Clusters	Matrix Struct.	Total Struct. >=5um	Total Struct. >=5um
Chrysotile Asbestos	0	0	0	0	0	0
Amphibole Asbestos	0	0	0	0	0	0
Ambiguous	0	0	0	0	0	0
Total asbestos (includes ambiguous structures)					0	0
Non-Asbestos	0	0	0	0	0	0
No Identification	0	0	0	0	0	0
Totals (All Structures)					0	0

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:

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Director of Electron Microscopy

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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 2-5, Escalators

Date Received: 10/03/01

Project Sample No.: SHS-2>5,E-10/3-24

Air Volume: 1863 liters

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

Effective Area: 385 mm2

TEM Sample No.: 5595 - 59956

Grid Openings Analyzed: 4

Average Grid Opening: 106.00 um

Total Area Analyzed: 0.0450 mm2

Analytical Sensitivity: 22.2 s/mm2

0.0046 s/cc

FIBROUS PARTICULATES ANALYZED

	<u>Number Observed</u>			Matrix Struct.	Total. Struct.	Total Struct. >=5um	<u>CONCENTRATION</u>			
	Single	Bundles	Clusters				Filter	Air		
	Fibers						Struct/mm2			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:

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Report Reviewed by:

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ACCREDITED NVLAP Lab Code # 1187
Report Date: 10/04/01

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 2-5, Escalators

Date Received: 10/03/01

Project Sample No.: SHS-2>5,E-10/3-25

Air Volume: 1863 liters

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

Effective Area: 385 mm2

TEM Sample No.: 5595 - 59957

Grid Openings Analyzed: 4

Average Grid Opening: 106.00 um

Total Area Analyzed: 0.0450 mm2

Analytical Sensitivity: 22.2 s/mm2
0.0046 s/cc

FIBROUS PARTICULATES ANALYZED

	<u>Number Observed</u>						<u>CONCENTRATION</u>		
				Matrix Struct.	Total. Struct.	Total Struct. >=5um	<u>Filter</u>		<u>Air</u> ngm/m3
	<u>Single Fibers</u>	<u>Bundles</u>	<u>Clusters</u>				<u>Struct/mm2</u>	<u>Struct/cc</u>	
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:

Roman Peysakhov

Report Reviewed by:

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

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

N.Y.C. School Construction Authority
30-30 Thomson Avenue
Long Island City, NY 11101

Approved N.Y. State ELAP #10879
ACCREDITED NVLAP Lab Code # 1187
Report Date: 10/04/01

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 2-5, Escalators

Date Received: 10/03/01

Project Sample No.: SHS-2>5,E-10/3-26

Air Volume: 1863 liters

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

Effective Area: 385 mm2

TEM Sample No.: 5595 - 59958

Grid Openings Analyzed: 4

Average Grid Opening: 106.00 um

Total Area Analyzed: 0.0450 mm2

Analytical Sensitivity: 22.2 s/mm2
0.0046 s/cc

FIBROUS PARTICULATES ANALYZED

Number Observed

CONCENTRATION

	<u>Number Observed</u>			<u>CONCENTRATION</u>		
	Single Fibers	Bundles	Clusters	Matrix Struct.	Total Struct. >=5um	
Chrysotile Asbestos	0	0	0	0	0	0.0
Amphibole Asbestos	0	0	0	0	0	0.0
Ambiguous	0	0	0	0	0	0.0
Total asbestos (includes ambiguous structures)					0	0.0
Non-Asbestos	0	0	0	0	0	0.0
No Identification	0	0	0	0	0	0.0
Totals (All Structures)					0	0.0

Filter Air
Struct/mm2 Struct/cc ngm/m3

0.0000 0
0.0000 0
0.0000 0
0.0000 0
0.0000 N/A
0.0000 N/A
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:

Roman Peysakhov

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

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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 2-5, Escalators

TEM Sample No.: 5595 - 59959

Date Received: 10/03/01

Grid Openings Analyzed: 4

Project Sample No.: SHS-2>5,E-10/3-27

Average Grid Opening: 106.00 um

Air Volume: 1863 liters

Total Area Analyzed: 0.0450 mm2

Filter Type: MCE 25 mm diam., Pore Size: 0.45 um
Effective Area: 385 mm2

Analytical Sensitivity: 22.2 s/mm2
0.0046 s/cc

FIBROUS PARTICULATES ANALYZED

	<u>Number Observed</u>						<u>CONCENTRATION</u>		
				Matrix Struct.	Total. Struct.	Total Struct. >=5um	<u>Filter</u>		<u>Air</u> ngm/m3
	<u>Single Fibers</u>	<u>Bundles</u>	<u>Clusters</u>				<u>Struct/mm2</u>	<u>Struct/cc</u>	
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:

Roman Peysakhov

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

ATC Environmental, Inc.
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New York, New York 10010

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Approved N.Y. State ELAP #10879
ACCREDITED NVLAP Lab Code # 1187
Report Date: 10/04/01

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 2-5, Escalators

TEM Sample No.: 5595 - 59960

Date Received: 10/03/01

Grid Openings Analyzed: 4

Project Sample No.: SHS-2>5, E-10/3-28

Average Grid Opening: 106.00 um

Air Volume: 1863 liters

Total Area Analyzed: 0.0450 mm2

Filter Type: MCE 25 mm diam., Pore Size: 0.45 um
Effective Area: 385 mm2

Analytical Sensitivity: 22.2 s/mm2
0.0046 s/cc

FIBROUS PARTICULATES ANALYZED

Number Observed

	Single Fibers	Bundles	Clusters	Matrix Struct.	Total Struct.	Total Struct. >=5um
Chrysotile Asbestos	0	1	0	0	1	1
Amphibole Asbestos	0	0	0	0	0	0
Ambiguous	0	0	0	0	0	0
Total asbestos (includes ambiguous structures)					1	1
Non-Asbestos	0	0	0	0	0	0
No Identification	0	0	0	0	0	0
Totals (All Structures)					1	1

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.

CONCENTRATION

	Filter Struct/mm2	Air Struct/cc	ngm/m3
22.2	0.0046	152	
0.0	0.0000	0	
0.0	0.0000	0	
22.2	0.0046	152	
0.0	0.0000	N/A	
0.0	0.0000	N/A	
22.2	0.0046	N/A	

Analyzed by:

Roman Peysakhov

Report Reviewed by:

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



AIR MONITORING DATA AND CHAIN OF CUSTODY FORM

Page

of 5

TURNAROUND TIME

☐ 2 hrs ☒ 4 hrs ☐ 6 hrs ☐ 8 hrs ☐ 12 hrs ☐ 24 hrs ☐ 48 hrs ☐ Standard ☐ Other

PROJECT INFORMATION

1. Project Name NYC SCA	2. Project Number 55-05	3. Project Manager STOYVES, H.S.	4. Project Number 59933-59962
5. Date 10.3.01	6. Abatement Location FLA 2ND TO 5TH FLOOR	7. Project Manager STOYVES, H.S.	8. Project Number 59933-59962
9. Abatement Location FLA 2ND TO 5TH FLOOR	10. Project Manager STOYVES, H.S.	11. Project Number 59933-59962	12. Project Manager STOYVES, H.S.

DAILY AIR SAMPLE RECORD

10. Sample ID Number	11. Sample Number	12. Sample Location	13. Time (24 hrs clock)	14. Start	15. End	16. Total Air Vol. (liters)	17. Filter Conc. (micrograms per liter)
01		Field Blank					
02		Field Blank					
03		5th Floor - Girls Locker Room	15:40	11:04	20:2	9.0	1863
04		East side of the room	15:42	13:09	20:2	9.0	1863
05		5th Floor - Boys Locker Room	15:42	13:09	20:2	9.0	1863
06		North side of the room	15:42	13:09	20:2	9.0	1863
07		5th Floor - Phys Ed Dept	15:42	13:09	20:2	9.0	1863
08		Locker of Locker Room	15:42	13:09	20:2	9.0	1863
09		5th Floor - Inside P.A. 5.13	15:42	13:09	20:2	9.0	1863
10		On the outside of the room	15:42	13:09	20:2	9.0	1863
11		5th Floor - Inside P.A. 5.31	15:42	13:09	20:2	9.0	1863
12		On the outside of the room	15:42	13:09	20:2	9.0	1863
13		5th Floor - Stairwell N	15:42	13:09	20:2	9.0	1863
14		At 5th Floor Landing	15:42	13:09	20:2	9.0	1863

CHAIN OF CUSTODY

15. Analyzed By RK	16. Received By RK	17. Time 10:03	18. Date 10.03
19. Project Manager P. SANCHEZ	20. Result To P. SANCHEZ	21. Date 10.03	22. Time 21:50
23. Project Manager P. SANCHEZ	24. Result To P. SANCHEZ	25. Date 10.03	26. Time 21:50

LAB INFORMATION (ATC ELAP # 10579, ATC NVLAP # 1187)

27. Lab Name ATC-154	28. Date 10.04	29. Time 1:00
30. Analyzed By RK	31. Date 10.04	32. Time 1:00
33. Lab Name ATC-154	34. Date 10.04	35. Time 1:00

36. Microscope (Make/Serial #) ☐ Nikon Labophot 238013 ☐ Nikon Labophot 238017 ☐ Nikon Labophot 238079	37. Analysis Methodology PCM - NIOSH 7400A TEM - AMERA
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NY-1 (1/01)

PROJECT INFORMATION

Client: NYC 9/11

Project Name: 55-95 CHAIN OF CUSTODY FORM

Project Address: 10301 + ECHAMBERS ST

Project Manager: Ben Sanchez

Project Number: 10301 + ECHAMBERS

LABORATORY INFORMATION

Lab Name: NYC 9/11

Lab Address: 10301 + ECHAMBERS ST

Lab Phone: 212 922 524

Lab Fax: 212 922 524

Lab Email: nyc911@nyc.gov

TESTING INFORMATION

Test Type: PM-10 (10.0 micron)

Test Method: PM-10 (10.0 micron)

Test Result: PM-10 (10.0 micron)

DAILY AIR SAMPLE RECORD

Sample ID	Sample Location	Sample Date	Sample Time	Sample Result	Sample Unit	Sample Notes
15	1st Floor - Gymnasium	16/10	19:30	9.0	9.0	1863
16	2nd Floor - Gymnasium	16/13	19:40	9.0	9.0	1863
17	3rd Floor - Gymnasium	16/20	19:42	9.0	9.0	1863
18	4th Floor - Gymnasium	16/23	19:50	9.0	9.0	1863
19	5th Floor - Gymnasium	16/25	19:52	9.0	9.0	1863
20	6th Floor - Gymnasium	16/27	19:54	9.0	9.0	1863

CHAIN OF CUSTODY

1. Project Manager: Ben Sanchez

2. Project Manager: Ben Sanchez

3. Project Manager: Ben Sanchez

4. Project Manager: Ben Sanchez

5. Project Manager: Ben Sanchez

6. Project Manager: Ben Sanchez

7. Project Manager: Ben Sanchez

8. Project Manager: Ben Sanchez

9. Project Manager: Ben Sanchez

10. Project Manager: Ben Sanchez

11. Project Manager: Ben Sanchez

12. Project Manager: Ben Sanchez

13. Project Manager: Ben Sanchez

14. Project Manager: Ben Sanchez

15. Project Manager: Ben Sanchez

16. Project Manager: Ben Sanchez

17. Project Manager: Ben Sanchez

18. Project Manager: Ben Sanchez

19. Project Manager: Ben Sanchez

20. Project Manager: Ben Sanchez

LABORATORY INFORMATION

Lab Name: NYC 9/11

Lab Address: 10301 + ECHAMBERS ST

Lab Phone: 212 922 524

Lab Fax: 212 922 524

Lab Email: nyc911@nyc.gov

TESTING INFORMATION

Test Type: PM-10 (10.0 micron)

Test Method: PM-10 (10.0 micron)

Test Result: PM-10 (10.0 micron)



CHAIN OF CUSTODY FORM

AND

LABORATORY TESTS

PROJECT INFORMATION

1. Client: **NYC PCA**

2. Project Name: **55-95**

3. Project Number: **2003-67**

4. Project Manager: **PAUL J. JONES**

5. Date: **10.3.01**

6. Assignment Location: **FL 2000 - 5TH**

7. Quantity/Date: **103.01 + ESCALATORS**

8. Project Manager: **PAUL J. JONES**

9. Project Number: **2003-67**

10. Project Manager: **PAUL J. JONES**

11. Project Number: **2003-67**

12. Project Manager: **PAUL J. JONES**

13. Project Number: **2003-67**

14. Project Manager: **PAUL J. JONES**

15. Project Number: **2003-67**

16. Project Manager: **PAUL J. JONES**

17. Project Number: **2003-67**

18. Project Manager: **PAUL J. JONES**

19. Project Number: **2003-67**

20. Project Manager: **PAUL J. JONES**

21. Project Number: **2003-67**

22. Project Manager: **PAUL J. JONES**

23. Project Number: **2003-67**

24. Project Manager: **PAUL J. JONES**

25. Project Number: **2003-67**

26. Project Manager: **PAUL J. JONES**

27. Project Number: **2003-67**

28. Project Manager: **PAUL J. JONES**

29. Project Number: **2003-67**

30. Project Manager: **PAUL J. JONES**

31. Project Number: **2003-67**

32. Project Manager: **PAUL J. JONES**

33. Project Number: **2003-67**

34. Project Manager: **PAUL J. JONES**

35. Project Number: **2003-67**

36. Project Manager: **PAUL J. JONES**

37. Project Number: **2003-67**

38. Project Manager: **PAUL J. JONES**

39. Project Number: **2003-67**

40. Project Manager: **PAUL J. JONES**

41. Project Number: **2003-67**

42. Project Manager: **PAUL J. JONES**

43. Project Number: **2003-67**

44. Project Manager: **PAUL J. JONES**

45. Project Number: **2003-67**

46. Project Manager: **PAUL J. JONES**

47. Project Number: **2003-67**

48. Project Manager: **PAUL J. JONES**

49. Project Number: **2003-67**

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51. Project Number: **2003-67**

52. Project Manager: **PAUL J. JONES**

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65. Project Number: **2003-67**

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79. Project Number: **2003-67**

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81. Project Number: **2003-67**

82. Project Manager: **PAUL J. JONES**

83. Project Number: **2003-67**

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97. Project Number: **2003-67**

98. Project Manager: **PAUL J. JONES**

99. Project Number: **2003-67**

100. Project Manager: **PAUL J. JONES**

DAILY AIR SAMPLE RECORD

10. Sample ID Number	11. Pump Number	12. Sample Location	13. Time (24 hrs clock)	14. Flow Rate (L/min)	15. Total Air Vol (liters)	16. Filter Change	17. Filter Date
21		1st floor - Branden 012	16:20	19.55	207	9.0	1863
22		2nd floor - Branden 012	16:30	17.53	207	9.0	1863
23		3rd floor - Branden 012	16:33	16.10	207	9.0	1863
24		4th floor - Branden 012	16:34	20.04	207	9.0	1863
25		5th floor - Branden 012	16:40	20.04	207	9.0	1863
26		6th floor - Branden 012	16:41	20.04	207	9.0	1863

CHAIN OF CUSTODY

18. Received By: **PAUL J. JONES**

19. Date: **10.03.21.50**

20. Time: **10:04**

21. Signature: **PAUL J. JONES**

22. Signature: **PAUL J. JONES**

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99. Signature: **PAUL J. JONES**

100. Signature: **PAUL J. JONES**

NYC (1/01)

CHAIN OF CUSTODY FORM									
☐ 2 hrs ☒ 4 hrs ☐ 6 hrs ☐ 48 hrs ☐ Standard ☐ 4 hrs ☐ 24 hrs ☐ 72 hrs ☐ Other 4c. Roommate Number: _____									
1. Project Name: 5595 2. Project Manager: JOSEPH SANCHEZ		3. Project Number: 67 4. Project Manager: JOSEPH SANCHEZ		5. Project Manager: JOSEPH SANCHEZ 6. Project Manager: JOSEPH SANCHEZ		7. Project Manager: JOSEPH SANCHEZ 8. Project Manager: JOSEPH SANCHEZ		9. Project Manager: JOSEPH SANCHEZ 10. Project Manager: JOSEPH SANCHEZ	
DAILY AIR SAMPLE RECORD									
Sample ID Number	Sample Location	Sample Date	Sample Time	Sample Volume (L/min)	Sample Volume (L/min)	Sample Volume (L/min)	Sample Volume (L/min)	Sample Volume (L/min)	Sample Volume (L/min)
27	Field Blank	10/01/04	10:00	100	100	100	100	100	100
28	Field Blank	10/01/04	10:00	100	100	100	100	100	100
29	Field Blank	10/01/04	10:00	100	100	100	100	100	100
30	Field Blank	10/01/04	10:00	100	100	100	100	100	100
11. Project Manager: JOSEPH SANCHEZ 12. Project Manager: JOSEPH SANCHEZ 13. Project Manager: JOSEPH SANCHEZ 14. Project Manager: JOSEPH SANCHEZ 15. Project Manager: JOSEPH SANCHEZ 16. Project Manager: JOSEPH SANCHEZ 17. Project Manager: JOSEPH SANCHEZ 18. Project Manager: JOSEPH SANCHEZ 19. Project Manager: JOSEPH SANCHEZ 20. Project Manager: JOSEPH SANCHEZ 21. Project Manager: JOSEPH SANCHEZ 22. Project Manager: JOSEPH SANCHEZ 23. Project Manager: JOSEPH SANCHEZ 24. Project Manager: JOSEPH SANCHEZ 25. Project Manager: JOSEPH SANCHEZ 26. Project Manager: JOSEPH SANCHEZ 27. Project Manager: JOSEPH SANCHEZ 28. Project Manager: JOSEPH SANCHEZ 29. Project Manager: JOSEPH SANCHEZ 30. Project Manager: JOSEPH SANCHEZ									
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CHAIN OF CUSTODY
 1. Project Manager: **JOSEPH SANCHEZ**
 2. Project Manager: **JOSEPH SANCHEZ**
 3. Project Manager: **JOSEPH SANCHEZ**
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 8. Project Manager: **JOSEPH SANCHEZ**
 9. Project Manager: **JOSEPH SANCHEZ**
 10. Project Manager: **JOSEPH SANCHEZ**

LAB INFORMATION (ATC ELAP # 10879, ATC NVLAP # 1187)
 11. Lab Name: **ATC-7EN**
 12. Lab Address: **1000 1st Ave**
 13. Lab City: **NEW YORK**
 14. Lab State: **NY**
 15. Lab Zip: **10001**
 16. Lab Phone: **212 312 3123**
 17. Lab Fax: **212 312 3123**
 18. Lab Email: **info@atc7en.com**
 19. Lab Website: **www.atc7en.com**
 20. Lab Manager: **JOSEPH SANCHEZ**
 21. Lab Analyst: **JOSEPH SANCHEZ**
 22. Lab Technician: **JOSEPH SANCHEZ**
 23. Lab Operator: **JOSEPH SANCHEZ**
 24. Lab Assistant: **JOSEPH SANCHEZ**
 25. Lab Cleaner: **JOSEPH SANCHEZ**
 26. Lab Maintenance: **JOSEPH SANCHEZ**
 27. Lab Security: **JOSEPH SANCHEZ**
 28. Lab Safety: **JOSEPH SANCHEZ**
 29. Lab Quality: **JOSEPH SANCHEZ**
 30. Lab Compliance: **JOSEPH SANCHEZ**
 31. Lab Accreditation: **JOSEPH SANCHEZ**
 32. Lab Certification: **JOSEPH SANCHEZ**
 33. Lab Registration: **JOSEPH SANCHEZ**
 34. Lab Licensure: **JOSEPH SANCHEZ**
 35. Lab Approval: **JOSEPH SANCHEZ**
 36. Lab Authorization: **JOSEPH SANCHEZ**
 37. Lab Permit: **JOSEPH SANCHEZ**
 38. Lab License: **JOSEPH SANCHEZ**
 39. Lab Certificate: **JOSEPH SANCHEZ**
 40. Lab Decree: **JOSEPH SANCHEZ**
 41. Lab Edict: **JOSEPH SANCHEZ**
 42. Lab Statute: **JOSEPH SANCHEZ**
 43. Lab Ordinance: **JOSEPH SANCHEZ**
 44. Lab Law: **JOSEPH SANCHEZ**
 45. Lab Regulation: **JOSEPH SANCHEZ**
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 96. Lab Precept: **JOSEPH SANCHEZ**
 97. Lab Maxim: **JOSEPH SANCHEZ**
 98. Lab Axiom: **JOSEPH SANCHEZ**
 99. Lab Postulate: **JOSEPH SANCHEZ**
 100. Lab Principle: **JOSEPH SANCHEZ**



104 East 25th Street
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www.atc-enviro.com
212.353.8280
Fax 212.353.8306

October 04, 2001

N.Y.C. School Construction Authority
30-30 Thomson Avenue
Long Island City, NY 11101
Attn: Mr. Hamid Savoj

15-21203-0067

Re: Report of TEM Analysis

Dear Mr. Savoj:

Following are the results of transmission electron microscopy (TEM) analysis of air samples from our Group No. 5596:

Project Name: Stuyvesant H.S., 345 Chambers St., NY, NY
Location: 1st Floor, Auditorium, Pool, Fan Room
Samples received: 10/04/01

These results will confirm and document the data transmitted today to Mr. Michael Parpounas, Director of Asbestos Services, of our office. The analyses were performed in strict conformance with the methodology of the AHERA Final Rule (CFR October 30, 1987) for clearance of abatement sites. As indicated on the attached Summary Results sheet, less than 70 asbestos structures per mm² was detected in all of the nine inside samples submitted from the site.

Copies of the bench sheets are also included as stipulated by AHERA. Multi-Metrics TEM cassettes, Lot No. 266916, were used. Results reported as Struct/cc are a function of air volume collected in the field and are, as such, not verifiable by this laboratory. This report may be reproduced only in its entirety and not without prior permission of this laboratory. If post-abatement inside samples pass, the response action may be considered to have been completed. The analyses were supervised by Dr. Michael A. Gorycki, Director of Electron Microscopy.

We are pleased to note that our TEM lab has received full accreditation from NVLAP, as is currently required for recognized analysis of TEM air samples for AHERA projects, and also approval under the NY State DOH ELAP program. These analyses were performed by ATC d/b/a ATC Associates Inc. Please contact me regarding any questions relating to these materials.

Very truly yours,

A handwritten signature in dark ink, appearing to read 'Michael A. Gorycki', written over a horizontal line.

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

ATC ENVIRONMENTAL, INC.
104 East 25th Street
New York, NY 10010

APPROVED NY STATE DOH ELAP # 10879
ACCREDITED NVLAP Lab Code # 1187

Summary of TEM Results

N.Y.C. School Construction Authority
30-30 Thomson Avenue
Long Island City, NY 11101
Mr. Hamid Savoj

DATE: 10/04/01

Project/Site Identification: Stuyvesant H.S., 345 Chambers St., NY, NY
1st Floor, Auditorium, Pool, Fan Rooms

CONCLUSION:

STATISTICAL SUMMARY

1) Inside Samples

TEM#	Project #	Volume (l)	<u>Asbestos Concentration</u>		
			<u>S/mm²</u>	<u>S/cc</u>	<u>ngm/m³</u>
5596- 59965	SHS-1APF-10/3-03	1938	0.0	0.0044 *	
5596- 59966	SHS-1APF-10/3-04	1938	0.0	0.0044 *	
5596- 59967	SHS-1APF-10/3-05	1919	0.0	0.0045 *	
5596- 59968	SHS-1APF-10/3-06	1900	0.0	0.0045 *	
5596- 59969	SHS-1APF-10/3-07	1900	0.0	0.0045 *	
5596- 59970	SHS-1APF-10/3-08	1900	0.0	0.0045 *	
5596- 59971	SHS-1APF-10/3-09	1881	0.0	0.0046 *	
5596- 59972	SHS-1APF-10/3-10	1872	22.2	0.0046	
5596- 59973	SHS-1APF-10/3-11	1805	0.0	0.0047 *	
Average=			<u>2.5</u>	<u>0.0045</u>	<u>17</u>

2) Outside Samples

			<u>Asbestos Concentration</u>		
<u>TEM#</u>	<u>Project #</u>	<u>Volume (l)</u>	<u>S/mm^2</u>	<u>S/cc</u>	<u>ngm/m^3</u>
<u>Average=</u>			<u>N/A</u>	<u>N/A</u>	<u>N/A</u>

3) Blanks

TEM#	Project #	Volume (l)	<u>Asbestos Concentration</u>		
			<u>S/mm²</u>	<u>S/cc</u>	<u>ngm/m³</u>
5596- 59963	SHS-1APF-10/3-01		- - - - -	Not Analyzed	- - - - -
5596- 59964	SHS-1APF-10/3-02		- - - - -	Not Analyzed	- - - - -
5596- 59974	SHS-1APF-10/3-12		- - - - -	Not Analyzed	- - - - -
Average=			<u>N/A</u>	<u>N/A</u>	<u>N/A</u>

4) Value of T - Statistic : N/A

* None detected; concentration equivalent to analytical sensitivity assigned.

This test report relates only to the specific items cited in the analysis.

The analysis was carried out according to the approved TEM method. The laboratory is in compliance with the quality specified for the method.

This report must not be used by the client to claim product endorsement by NVLAP or any agency of the U.S. Government.

RP
Analyzed by:
Roman Peysakhov


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

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

N.Y.C. School Construction Authority
30-30 Thomson Avenue
Long Island City, NY 11101

Approved N.Y. State ELAP #10879
ACCREDITED NVLAP Lab Code # 1187
Report Date: 10/04/01

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
1st Floor, Auditorium, Pool, Fan Rooms
Date Received: 10/04/01

TEM Sample No.: 5596 - 59965

Grid Openings Analyzed: 4

Project Sample No.: SHS-1APF-10/3-03

Average Grid Opening: 106.00 um

Air Volume: 1938 liters

Total Area Analyzed: 0.0450 mm2

Filter Type: MCE 25 mm diam., Pore Size: 0.45 um
Effective Area: 385 mm2

Analytical Sensitivity: 22.2 s/mm2
0.0044 s/cc

FIBROUS PARTICULATES ANALYZED

	<u>Number Observed</u>						<u>CONCENTRATION</u>		
				Matrix Struct.	Total. Struct.	Total Struct. >=5um	<u>Filter</u>		<u>Air</u> ngm/m3
	<u>Single Fibers</u>	<u>Bundles</u>	<u>Clusters</u>				<u>Struct/mm2</u>	<u>Struct/cc</u>	
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:

Roman Peysakhov

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

ATC Environmental, Inc.
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New York, New York 10010

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ACCREDITED NVLAP Lab Code # 1187
Report Date: 10/04/01

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

1st Floor, Auditorium, Pool, Fan Rooms

Date Received: 10/04/01

Project Sample No.: SHS-1APF-10/3-04

Air Volume: 1938 liters

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

Effective Area: 385 mm2

TEM Sample No.: 5596 - 59966

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 Struct. >=5um	Filter		Air
	Fibers	Bundles	Clusters	Struct.	Struct.		Struct/mm2	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:

Roman Peysakhov

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

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Approved N.Y. State ELAP #10879
ACCREDITED NVLAP Lab Code # 1187
Report Date: 10/04/01

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

Project/Site: Stuyvesant H.S., 345 Chambers St., NY, NY
1st Floor, Auditorium, Pool, Fan Rooms

Date Received: 10/04/01

Project Sample No.: SHS-1APF-10/3-05

Air Volume: 1919 liters

Filter Type: MCE 25 mm diam., Pore Size: 0.45 um
Effective Area: 385 mm2

Analysis Parameters

TEM Sample No.: 5596 - 59967

Grid Openings Analyzed: 4

Average Grid Opening: 106.00 um

Total Area Analyzed: 0.0450 mm2

Analytical Sensitivity: 22.2 s/mm2
0.0045 s/cc

FIBROUS PARTICULATES ANALYZED

	Number Observed			Matrix Struct.	Total Struct.	Total Struct. >=5um
	Single Fibers	Bundles	Clusters			
Chrysotile Asbestos	0	0	0	0	0	0
Amphibole Asbestos	0	0	0	0	0	0
Ambiguous	0	0	0	0	0	0
Total asbestos (includes ambiguous structures)					0	0
Non-Asbestos	0	0	0	0	0	0
No Identification	0	0	0	0	0	0
Totals (All Structures)					0	0

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

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New York, New York 10010

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Long Island City, NY 11101

Approved N.Y. State ELAP #10879
ACCREDITED NVLAP Lab Code # 1187
Report Date: 10/04/01

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
1st Floor, Auditorium, Pool, Fan Rooms
Date Received: 10/04/01

TEM Sample No.: 5596 - 59968

Grid Openings Analyzed: 4

Project Sample No.: SHS-1APF-10/3-06

Average Grid Opening: 106.00 um

Air Volume: 1900 liters

Total Area Analyzed: 0.0450 mm2

Filter Type: MCE 25 mm diam., Pore Size: 0.45 um
Effective Area: 385 mm2

Analytical Sensitivity: 22.2 s/mm2
0.0045 s/cc

FIBROUS PARTICULATES ANALYZED

	<u>Number Observed</u>						<u>CONCENTRATION</u>			
					Total		Filter	Air		
	Single			Matrix	Total.	Struct.				
	Fibers	Bundles	Clusters	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	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:

Roman Peysakhov

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

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Approved N.Y. State ELAP #10879
ACCREDITED NVLAP Lab Code # 1187
Report Date: 10/04/01

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
1st Floor, Auditorium, Pool, Fan Rooms
Date Received: 10/04/01

TEM Sample No.: 5596 - 59969

Grid Openings Analyzed: 4

Project Sample No.: SHS-1APF-10/3-07

Average Grid Opening: 106.00 um

Air Volume: 1900 liters

Total Area Analyzed: 0.0450 mm2

Filter Type: MCE 25 mm diam., Pore Size: 0.45 um
Effective Area: 385 mm2

Analytical Sensitivity: 22.2 s/mm2
0.0045 s/cc

FIBROUS PARTICULATES ANALYZED

Number Observed

CONCENTRATION

	Number Observed			Matrix Struct.	Total Struct.	Total Struct. >=5um	Filter		Air ngm/m3
	Single Fibers	Bundles	Clusters				Struct/mm2	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:

Roman Peysakhov

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

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ACCREDITED NVLAP Lab Code # 1187
Report Date: 10/04/01

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
1st Floor, Auditorium, Pool, Fan Rooms
Date Received: 10/04/01

TEM Sample No.: 5596 - 59970

Grid Openings Analyzed: 4

Project Sample No.: SHS-1APF-10/3-08

Average Grid Opening: 106.00 um

Air Volume: 1900 liters

Total Area Analyzed: 0.0450 mm2

Filter Type: MCE 25 mm diam., Pore Size: 0.45 um
Effective Area: 385 mm2

Analytical Sensitivity: 22.2 s/mm2
0.0045 s/cc

FIBROUS PARTICULATES ANALYZED

Number Observed

CONCENTRATION

	<u>Number Observed</u>			<u>CONCENTRATION</u>		
	Single Fibers	Bundles	Clusters	Matrix Struct.	Total Struct. >=5um	Total Struct.
Chrysotile Asbestos	0	0	0	0	0	0
Amphibole Asbestos	0	0	0	0	0	0
Ambiguous	0	0	0	0	0	0
Total asbestos (includes ambiguous structures)					0	0
Non-Asbestos	0	0	0	0	0	0
No Identification	0	0	0	0	0	0
Totals (All Structures)					0	0

<u>Filter</u>		<u>Air</u>
Struct/mm2	Struct/cc	ngm/m3
0.0	0.0000	0
0.0	0.0000	0
0.0	0.0000	0
0.0	0.0000	0
0.0	0.0000	N/A
0.0	0.0000	N/A
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:

Roman Peysakhov

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

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

N.Y.C. School Construction Authority
30-30 Thomson Avenue
Long Island City, NY 11101

Approved N.Y. State ELAP #10879
ACCREDITED NVLAP Lab Code # 1187
Report Date: 10/04/01

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

Project/Site: Stuyvesant H.S., 345 Chambers St., NY, NY
1st Floor, Auditorium, Pool, Fan Rooms
Date Received: 10/04/01
Project Sample No.: SHS-1APF-10/3-09
Air Volume: 1881 liters
Filter Type: MCE 25 mm diam., Pore Size: 0.45 um
Effective Area: 385 mm2

Analysis Parameters

TEM Sample No.: 5596 - 59971
Grid Openings Analyzed: 4
Average Grid Opening: 106.00 um
Total Area Analyzed: 0.0450 mm2
Analytical Sensitivity: 22.2 s/mm2
0.0046 s/cc

FIBROUS PARTICULATES ANALYZED

	Number Observed			Matrix Struct.	Total Struct.	Total Struct. >=5um
	Single Fibers	Bundles	Clusters			
Chrysotile Asbestos	0	0	0	0	0	0
Amphibole Asbestos	0	0	0	0	0	0
Ambiguous	0	0	0	0	0	0
Total asbestos (includes ambiguous structures)					0	0
Non-Asbestos	0	0	0	0	0	0
No Identification	0	0	0	0	0	0
Totals (All Structures)					0	0

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 metho

CONCENTRATION

Filter		Air
Struct/mm2	Struct/cc	ngm/m3
0.0	0.0000	0
0.0	0.0000	0
0.0	0.0000	0
0.0	0.0000	0
0.0	0.0000	N/A
0.0	0.0000	N/A
0.0	0.0000	N/A

Analyzed by:

Roman Peysakhov

Report Reviewed by:

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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
1st Floor, Auditorium, Pool, Fan Rooms
Date Received: 10/04/01

Project Sample No.: SHS-1APF-10/3-10

Air Volume: 1872 liters

Filter Type: MCE 25 mm diam., Pore Size: 0.45 um
Effective Area: 385 mm2

TEM Sample No.: 5596 - 59972

Grid Openings Analyzed: 4

Average Grid Opening: 106.00 um

Total Area Analyzed: 0.0450 mm2

Analytical Sensitivity: 22.2 s/mm2
0.0046 s/cc

FIBROUS PARTICULATES ANALYZED

CONCENTRATION

	<u>Number Observed</u>						<u>CONCENTRATION</u>			
					Total		Filter	Air		
	Single			Matrix	Total.	Struct.	Struct/mm2	Struct/cc	ngm/m3	
	Fibers	Bundles	Clusters	Struct.	Struct.	>=5um				
Chrysotile Asbestos	0	1	0	0	1	0	22.2	0.0046	151	
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)						1	0	22.2	0.0046	151
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)						1	0	22.2	0.0046	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 metho

Analyzed by:

Report Reviewed by:

Roman Peysakhov

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

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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
1st Floor, Auditorium, Pool, Fan Rooms
Date Received: 10/04/01

TEM Sample No.: 5596 - 59973

Grid Openings Analyzed: 4

Project Sample No.: SHS-1APF-10/3-11

Average Grid Opening: 106.00 um

Air Volume: 1805 liters

Total Area Analyzed: 0.0450 mm2

Filter Type: MCE 25 mm diam., Pore Size: 0.45 um
Effective Area: 385 mm2

Analytical Sensitivity: 22.2 s/mm2
0.0047 s/cc

FIBROUS PARTICULATES ANALYZED

	<u>Number Observed</u>						<u>CONCENTRATION</u>		
				Matrix	Total.	Total	<u>Filter</u>		<u>Air</u>
	<u>Fibers</u>	<u>Bundles</u>	<u>Clusters</u>	<u>Struct.</u>	<u>Struct.</u>	<u>>=5um</u>	<u>Struct/mm2</u>	<u>Struct/cc</u>	<u>ngm/m3</u>
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:

Roman Peysakhov

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



AIR MONITORING DATA

Page 1 of 2

PROJECT INFORMATION

1. Client: WME SCA
 2. Project Name: STONISBANT H.S.
 2a. Project Address: 845 CHAMBERS ST, NY, NY 10003-67
 3. Project #: 59963-59974
 4. Project Monitor: ETS Kowalski
 4c. Rotameter Number: HP104
 5. Date: 10-3-01
 6. Abatement Location: 1st Fl. Abatement, 1st Fl. Boarding
 7. ☐ PCM (0.8 micron MCE)
 Cassette/Filter Manufacture Lot # 266916
 8. ☒ TEM (0.45 micron MCE)
 Cassette/Filter Manufacture Lot # 266916
 9. Type a. ☐ Background b. ☐ Pre-Abate c. ☐ Abatement d. ☐ Post-Abate e. ☐ OSHA f. ☐ Environmental g. ☒ Ambient h. ☐ Other

CHAIN OF CUSTODY FORM

TURNAROUND TIME
☐ 2 hrs ☒ 6 hrs ☐ 48 hrs ☐ Standard
☐ 4 hrs ☐ 24 hrs ☐ 72 hrs ☐ Other

DAILY AIR SAMPLE RECORD

10. Sample I.D. Number	11. Pump Number	12. Sample Location	13. Time (24 hrs clock)	14. Flow Rate (L/min.)	15. Total Air Vol. (liters)	16. # Fibers/Fields Minus Blank	17. Fiber Core Area
001		Field Blank					F/1mm ²
002		Field Blank					
003		1st floor - S/W Swimming Pool	22:22	01.46	204	9.5	9.5
004		1st floor - Swimming Pool	22:23	01.47	204	9.5	9.5
005		Inside Boys Locker Room	22:23	01.51	202	9.5	9.5
006		1st floor - Lobby by Main Entrance	22:23	01.53	200	9.5	9.5
007		1st floor - Room # 133	22:36	01.56	200	9.5	9.5
008		1st floor - Boarding	22:37	01.57	200	9.5	9.5

CHAIN OF CUSTODY

18. Relinquished By: [Signature]
 19. Received By: RRU
 20. Date: 10.04
 21. Time: 3:30
 22. Lab Name: ATC-TEM
 a. Analyzed By: RRU
 b. QC By: RRU
 c. Lab Batch #: 10.04 5:00
 25. Microscope Make/Serial #
☐ Nikon Labophot 238913
☐ Nikon Labophot 238917
☐ Nikon Labophot 239079

LAB INFORMATION (ATC ELAP # 10879, ATC NVLAP # 1187)

26. ATC Project Manager: F. SANCHEZ
 27. Results To: RRU
 28. Comments: 917 797 8516
 Analysis Methodology
 PCM - NIOSH 7400A
 TEM - AHERA



AIR MONITORING DATA AND CHAIN OF CUSTODY FORM

 Page 2 of 2

TURNAROUND TIME

☐ 2 hrs ☒ 6 hrs ☐ 48 hrs ☐ Standard
☐ 4 hrs ☐ 24 hrs ☐ 72 hrs ☐ Other _____

PROJECT INFORMATION

1. Client: NYC SCA	2. Project Name: STUYVESANT H.S.	3. Project #: 21203-67	4. Project Monitor: ITS Lowmeyer
2a. Project Address: 245 CHAMBERS ST NY		4c. Rotameter Number: 44104	
5. Date: 10-3-01		6. Abatement Location: RTFC AREAS	
7. ☐ PCM (0.8 micron MCE) Cassette/Filter Lot # _____		8. ☒ TEM (0.45 micron MCE) Cassette/Filter Lot # _____	
9. Type a. ☐ Background b. ☐ Pre-Abate c. ☐ Abatement		d. ☐ Post-Abate e. ☐ OSHA	
10. ☐ Environmental 11. ☒ Ambient 12. ☐ Other _____			

DAILY AIR SAMPLE RECORD

10. Sample ID Number	11. Pump Number	12. Sample Location		13. Time (24 hrs clock)			14. Flow Rate (L/min.)			15. Total Air Vol. (liters)	16. # Fibers/Fields Minus Blank	17. Fiber Conc. F/Min
		12a. IWA	12b. OWA	13a. Start	13b. End	13c. Total	14a. Start	14b. End	14c. Avg			
			Field Blank									
			Field Blank									
09	X		Auditorium - Stage By Room #150		22:42	02:00	198	9.5	9.5	9.5	1871.5	<22.4
10	X		Auditorium - Assembling. area - By the Exit		22:44	02:01	194	9.5	9.5	9.5	1871.5	22.4
11	X		234 - Jan Room In the center of the room		23:00	02:10	190	9.5	9.5	9.5	1825	<22.4
12	-		SEACED BRANK									

CHAIN OF CUSTODY

18. Relinquished By: 	19. Received By: 	20. Date: 10.04	21. Time: 3:30
22. Lab Name: ATC-TEM			
a. Analyzed By: RRug			
b. QC By: RRug			
c. Lab Batch #:			
23. Date: 10.04			
24. Time: 5:00			
25. Microscope Make/Serial #			
☐ Nikon Labophot 238913 ☐ Nikon Labophot 238917 ☐ Nikon Labophot 239079			

LAB INFORMATION (ATC ELAP # 10879, ATC NVLAP # 1187)

26. ATC Project Manager: R. SAUER 2	27. Results To: ITS Lowmeyer Beeper/Phone #s: 917 797 8516
28. Comments:	
Analysis Methodology PCM - NIOSH 7400A TEM - AHERA	