

TRIBECA TOWER 105 DUANE STREET

A SUMMARY REPORT OF AMBIENT AIR SAMPLING
AND VISUAL OBSERVATIONS PERFORMED
FOLLOWING THE COLLAPSE OF THE WORLD
TRADE CENTER BUILDINGS.

BOOK ONE

FEBRUARY 11, 2002

PREPARED FOR:
RELATED MANAGEMENT COMPANY, L.P.
203 EAST 86TH STREET
NEW YORK, NY 10028

PREPARED BY:
ATC ASSOCIATES INC.
104 EAST 25TH STREET
NEW YORK, NY 10010

General

ATC Associates Inc. (ATC) was retained by the Related Management Company, L.P. in response to air quality concerns at Tribeca Towers following the collapse of the World Trade Center buildings on September 11, 2001. Addressing the concerns ATC conducted interviews with building maintenance personnel, performed a visual inspection of the ventilating and air conditioning system air intakes and a walkthrough visual inspection of residential units and common areas. Ambient air samples were collected for fiber analysis via Transmission Electron Microscopy (TEM). Additionally ATC provided a scope document for and conducted spot checks of a cleaning of the house supply air system and building exterior.

Interview with Building Maintenance Personnel and Visual Inspections

Based upon ATC's discussion with the resident manager and our observations, ATC concludes that building management actions and subsequent loss of power successfully shut down the house air conditioning systems minimizing dust intrusion into the HVAC system, and that at the time of our inspection the house supplied HVAC system was free of dust accumulations that can be attributed to the collapse of the World Trade Center Buildings.

ATC visually inspected 406 units for accumulated dust and/or debris consistent with material that from ATC's experience emanated from the collapse of the World Trade Center Buildings. Thirty-five units were inaccessible or the occupants refused access and were not inspected.

Of the 406 units inspected, ATC did not observe any dust and/or debris accumulations that in ATC's opinion was consistent with widespread deposition of material that emanated from the collapse of the World Trade Center Buildings. However, ATC observed adjacent to open windows in four units, limited dust accumulations (no debris) although inconsistent with material that emanated from the collapse of the World Trade Center Buildings present nonetheless.

Ambient Air Sampling – Transmission Electron Microscopy

On October 24, 25, November 7, 21, December 5, 19, and January 2 & 3, ATC collected 65 common area and 157 residential units samples as requested by the resident to ascertain the presence or absence of airborne asbestos. Units sampled are listed below by sampling date. All samples were collected and analyzed in accordance with the AHERA Transmission Electron Microscopy (TEM) method as set forth at 40 CFR Part 763, Subpart E, Appendix A which provides resolution down to 0.5 μ . structure size. Of the total 222 samples collected, a single asbestos structure was detectable on only two samples.

In the absence of a specific ambient air standard, ATC has selected as a criteria for acceptable ambient air sample sets, the AHERA re-occupancy requirement following an asbestos abatement action of an average of less than 70 asbestos structures per square millimeter (<70 s/mm²) per sample set. This criteria has been selected because the AHERA requirement is the most stringent reoccupancy requirement available, and has been designed to be protective of children following an asbestos abatement project.

Based upon analytical sample results for all samples recording levels well below the AHERA clearance requirement, it is ATC's opinion that the ambient air samples collected throughout the building are representative of the ambient conditions at the time of testing and that the areas tested meet an acceptable criterion for re-occupancy

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Related Management Company, L.P.

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Additionally, on December 12, 2001, ATC collected a total of ten ambient air samples, five from within the 10th floor common hallway and five within the 2nd floor mechanical room to ascertain the presence or absence of airborne asbestos. The samples were collected at the request of the New York City Department of Environmental Protection (NYCDEP) in response to a tenant complaint regarding hallway duct cleaning operations. Samples were analyzed in accordance with the more stringent AHERA Transmission Electron Microscopy (TEM) method as set forth at 40 CFR Part 763, Subpart E, Appendix A.

Both the 10th floor hallway and 2nd floor mechanical room exhibited analytical results of **no asbestos structures detected**, which is below the AHERA clearance requirement. It is ATC's opinion that duct-cleaning activities did not result in elevated asbestos levels within those spaces, and the ambient conditions sampled at the time of testing meet an acceptable criterion for occupancy.

On December 27, 28 & 29, 2001, during duct cleaning activities ATC collected a total of fourteen ambient air samples, ten from within common hallways and four within the 2nd floor mechanical room to ascertain the presence or absence of airborne asbestos. The sample methodology, quantity, and location were agreed upon between Related Management, ATC and H.A. Bader Consultants Inc. the tenants associations consultant. Samples were analyzed in accordance with the more stringent AHERA Transmission Electron Microscopy (TEM) method as set forth at 40 CFR Part 763, Subpart E, Appendix A.

Based upon the analytical results from the 2nd, 5th, 10th, 15th, 20th, 25th, 27th, 34th, 41st floor hallways and 2nd floor mechanical room of **no asbestos structures detected**, which is below the AHERA clearance requirement. It is ATC's opinion that duct-cleaning activities did not result in elevated asbestos levels within those spaces, and the ambient conditions sampled are representative of the building at the time of testing and meet an acceptable criterion for occupancy.

October 24 & 25, 2001

Floor	Apartments	Floor	Apartments	Floor	Apartments
PH	E	36	B, F	19	B, E
52	A, D, E, H	35	G	18	B, G, J
51	-	34	E	17	B, L
50	-	33	A, E	16	E, F, L
49	A, C, D, F, H	32	H	15	B, F, J, L
48	B, E, H	31	B, G	14	D, G, L
47	-	30	H	12	B, E, F, L
46	E, F	29	A, B, D, E	11	C, L
45	B, E, G	28	-	10	B, D
44	B, E	27	B	9	E
43	A, F, G	26	E, F, H	8	D, E
42	D, F	25	B, C, D	7	B, F, H, J
41	F	24	B, C, G, H	6	D
40	-	23	A, B, D, G, H	5	A, B, H, K, L
39	D	22	A, B, F	4	C
38	A, B, H	21	C, E, F	1	Management, Lobby
37	B, C, D, F	20	K		

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November 7, 2001

Floor	Apartments	Floor	Apartments	Floor	Apartments
PH		36		19	
52		35		18	F
51	D	34		17	
50	Hallway	33		16	
49	B	32	E	15	
48		31		14	B
47		30	Hallway	12	
46	D	29		11	
45		28		10	Hallway
44		27	A	9	
43		26		8	
42		25		7	
41		24	A	6	
40	Hallway	23	E	5	
39	A	22	D	4	
38		21	E	1	Lobby
37		20	Hallway		

November 21, 2001

Floor	Apartments	Floor	Apartments	Floor	Apartments
PH		36	FN	19	
52		35		18	B
51		34		17	
50	Hallway	33		16	
49		32		15	
48		31	D	14	F
47		30	Hallway	12	
46		29		11	
45		28	B	10	Hallway
44		27		9	
43		26	E	8	L
42		25	C	7	
41		24		6	D
40	Hallway	23	D	5	
39		22	H	4	
38		21		1	Lobby
37		20	Hallway		

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December 5, 2001

Floor	Apartments	Floor	Apartments	Floor	Apartments
PH		36	F	19	
52		35		18	
51		34	E	17	
50		33		16	
49		32		15	
48		31		14	
47		30		12	
46		29	E	11	
45		28		10	
44	A	27		9	F
43		26	A	8	
42		25		7	
41		24		6	
40		23		5	
39		22		4	G
38		21	E	1	
37		20			

December 19, 2001

Floor	Apartments	Floor	Apartments	Floor	Apartments
PH		36		19	
52		35		18	C
51		34		17	
50		33	A	16	L
49		32		15	
48		31		14	
47		30		12	
46		29		11	
45		28	B	10	
44		27		9	
43		26	B	8	
42		25		7	
41		24		6	
40		23		5	
39	F	22		4	
38		21	F, H	1	
37	F	20	K		

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Related Management Company, L.P.

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January 2 & 3, 2002

Floor	Apartments	Floor	Apartments	Floor	Apartments
PH		36		19	
52		35		18	
51		34		17	
50		33		16	
49		32		15	
48		31		14	
47		30		12	
46		29	h	11	d
45		28		10	
44		27		9	
43		26		8	
42		25		7	
41		24		6	
40		23		5	
39		22		4	
38		21		1	
37	a	20			

Fiberglass in Air via PCM

Twelve ambient air samples collected within the common areas lobby were analyzed for fiberglass using the Phase Contrast Microscopy (PCM) analytical method. All samples collected recorded fiber levels less than 0.01 f/cc

In the absence of a specific ambient air standard for fiberglass, ATC has selected as a criteria for acceptable ambient air sample sets, the NYCDEP re-occupancy requirement following an asbestos abatement action of an average of less than 0.01 fibers per cubic centimeter (0.01 f/cc²).

In conclusion, based upon the analytical results for fiberglass recording fiber concentrations below the NYC acceptable airborne clearance requirement following an abatement action, it is ATC's opinion that the ambient air samples collected throughout the building meet an acceptable criterion for re-occupancy

PCB's in Air

One ambient air sample collected within the lobby and analyzed for PCB's recorded analytical results less than analytical detection limit.

Indoor Air Quality

The IAQ evaluation included collection of seventy-five real-time measurements of temperature, relative humidity, carbon dioxide (CO₂), carbon monoxide (CO), respirable particulates and total volatile organic compounds (TVOC). Currently, there are no regulatory standards for indoor air quality in non-industrial buildings, such as residential units. For the real-time data collected, ATC uses the commonly accepted guidelines cited in the following publications:

- *Ventilation for Acceptable Indoor Air Quality (ASHRAE 62-1999)*, American Society of Heating, Refrigerating, and Air-Conditioning Engineers (ASHRAE);
- *Thermal Environmental Conditions for Human Occupancy (ASHRAE 55-1992)*;
- *Industrial Hygienists Guide to Indoor Air Quality Investigations (1993)*, American Industrial Hygiene Association (AIHA).

PARAMETER	TARGET LEVEL	AGENCY ORGANIZATION OR
Carbon Dioxide (CO ₂)	<700 parts per million (ppm) above background level	ASHRAE 62
Carbon Monoxide (CO)	9 ppm	USEPA NPAAQS (as cited in ASHRAE 62)
Respirable Particles (PM ₁₀)	50 micrograms per cubic meter of air (µg/m ³)	USEPA NPAAQS (as cited in ASHRAE 62)
Temperature	Summer: 73-79°F at 50% RH Winter: 68-75°F at 50% RH	ASHRAE 55
Relative Humidity	30 – 60 %	ASHRAE 55
Total Volatile Organic Compounds (TVOC)	1 ppm	AIHA

USEPA = United States Environmental Protection Agency

NPAAQS = National Primary Ambient-Air Quality Standard

AIHA = American Industrial Hygiene Association

All parameters measured during the IAQ assessment were within recommended guideline ranges.

PCB's in Air

One ambient air sample collected within the lobby and analyzed for PCB's recorded analytical results less than analytical detection limit.

Dioxins

One sample twenty-four hour sample was collected using a spiked 75 mm polyurethane foam (PUF) sorbent plug and General Metal Works High Volume PS1 Sampler for polychlorinated dibenzo-p-dioxins (PCDDs) and polychlorinated dibenzofurans (PCDFs) [known collectively as dioxins] using a modified version of USEPA Method 23 (see attached analytical reports). All dioxin analyses were performed by Pace Analytical Services (see attached reports).

The EPA's current screening level for dioxin in air, has been set to protect against significantly increased risks of cancer and other adverse health effects. This screening level is based on an assumption of continuous exposure for a year, to an average concentration of 0.16 nanograms per cubic meter (ng/m³) or 160 picograms per cubic meter (0.16 ng/m³ = 160 pg/m³). The sample collected and analyzed recorded a dioxin equivalence concentration of 0.0048 pg/m³, well below the EPA's current screening level.

Airborne Metals

One common area and nine residential units were sampled for and analyzed for airborne metals (copper, lead, and chromium). All recorded analytical results were less than analytical detection limit for lead and chromium. Detectable levels of copper were detected in seven samples and were more than 1000 times lower than the best available occupational standards. There was no observed likely source recorded for the copper.

Duct and Exterior Cleaning

Between December 27 and 29, 2001 TechClean Industries cleaned the supply air duct, which pressurizes the common hallway. This cleaning included removal and reinstallation after wet cleaning of the hallway grills and registers and High Efficiency Particulate Air (HEPA) vacuuming and washing of the 2nd floor induction fan supplying the hallway system. The supply riser was cleaned in phases by sealing hallway diffusers with plastic sheeting and tape, deploying isolation bags to assist in controlling negative pressure, HEPA negative exhaust equipment and various pneumatic agitation devices. The work commenced from the upper most floor and worked towards the 2nd floor mechanical room. ATC collected fourteen ambient air samples, ten from within common hallways and four within the 2nd floor mechanical room to ascertain the presence or absence of airborne asbestos during this cleaning. The sample methodology, quantity, and location were agreed upon between Related Management, ATC and H.A. Bader Consultants Inc. the tenants associations consultant. Samples were analyzed in accordance with the more stringent AHERA Transmission Electron Microscopy (TEM) method as set forth at 40 CFR Part 763, Subpart E, Appendix A.

Based upon the analytical results from the 2nd, 5th, 10th, 15th, 20th, 25th, 27th, 34th, 41st floor hallways and 2nd floor mechanical room of **no asbestos structures detected**, which is below

**Tribeca Tower – 105 Duane Street
Related Management Company, L.P.**

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the AHERA clearance requirement. It is ATC's opinion that duct-cleaning activities did not result in elevated asbestos levels within those spaces, and the ambient conditions sampled are representative of the building at the time of testing and meet an acceptable criterion for occupancy.

JDA Restoration, Inc. cleaned exterior surfaces of the building. This cleaning included High Efficiency Particulate Air (HEPA) vacuuming of exterior ledges and window tracks and pressure washing of exterior surfaces. Following exterior cleaning activities all windows were washed.

**Tribeca Tower – 105 Duane Street
Related Management Company, L.P.**

**ATC Project No.: 09622-0014
February 11, 2002**

**TEM Air Sampling Chain of Custody Forms
And
Analytical Results**



19/27

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

October 25, 2001

ATC Associates Inc.
104 East 25th Street
New York, NY 10010
Attn: Mr. Fred Burkhardt

Re: Report of TEM Analysis

Dear Mr. Burkhardt:

Following are the results of transmission electron microscopy (TEM) analysis of air samples from our Group No. 5762:

Client: Tribeca
Project Name: 105 Duane Street, NY, NY
Location: Various Sites
Samples received: 10/25/01

These results will confirm and document the data transmitted today to your 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 forty-six ambient samples submitted from the site. MMI TEM cassettes, Lot No. 00266915, 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 cursive script, appearing to read 'Michael A. Gorycki'.

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

ATC Associates Inc.
104 East 25th Street
New York, NY 10010
Mr. Fred Burkhardt

DATE: 10/25/01

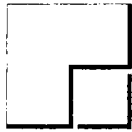
Project/Site Identification: Tribeca, 105 Duane St., NY, NY
Various Sites

CONCLUSION:

STATISTICAL SUMMARY

1) Inside Samples

TEM#	Project #	Volume (L)	<u>Asbestos Concentration</u>		
			S/mm ²	S/cc	nm/m ³
5762- 62217	3	1300	0.0	0.0044 *	
5762- 62218	4	1300	0.0	0.0044 *	
5762- 62219	5	1300	0.0	0.0044 *	
5762- 62220	6	1300	0.0	0.0044 *	
5762- 62221	7	1300	0.0	0.0044 *	
5762- 62222	8	1300	0.0	0.0044 *	
5762- 62223	9	1300	0.0	0.0044 *	
5762- 62224	10	1300	0.0	0.0044 *	
5762- 62225	11	1300	0.0	0.0044 *	
5762- 62226	12	1300	0.0	0.0044 *	
5762- 62227	13	1300	0.0	0.0044 *	
5762- 62228	14	1300	0.0	0.0044 *	
5762- 62229	15	1300	14.8	0.0044	
5762- 62230	16	1300	0.0	0.0044 *	
5762- 62231	17	1300	0.0	0.0044 *	
5762- 62232	18	1300	0.0	0.0044 *	
5762- 62233	19	1300	0.0	0.0044 *	
5762- 62234	20	1300	0.0	0.0044 *	
5762- 62236	22	1300	0.0	0.0044 *	
5762- 62237	23	1300	0.0	0.0044 *	
5762- 62238	24	1300	0.0	0.0044 *	
5762- 62239	25	1300	0.0	0.0044 *	
5762- 62240	26	1300	0.0	0.0044 *	
5762- 62241	27	1300	0.0	0.0044 *	
5762- 62242	28	1300	0.0	0.0044 *	
5762- 62243	29	1300	0.0	0.0044 *	
5762- 62244	30	1300	0.0	0.0044 *	
5762- 62245	31	1300	0.0	0.0044 *	
5762- 62246	32	1300	0.0	0.0044 *	
5762- 62247	33	1300	0.0	0.0044 *	
5762- 62248	34	1300	0.0	0.0044 *	
5762- 62249	35	1300	0.0	0.0044 *	
5762- 62250	36	1300	0.0	0.0044 *	
5762- 62251	37	1300	0.0	0.0044 *	
5762- 62252	38	1300	0.0	0.0044 *	
5762- 62253	39	1300	0.0	0.0044 *	
5762- 62254	40	1300	0.0	0.0044 *	
5762- 62255	41	1300	0.0	0.0044 *	
5762- 62256	42	1300	0.0	0.0044 *	
5762- 62257	43	1300	0.0	0.0044 *	



Related Management Company, L.P.
203 East 86th Street
New York, New York 10028
212-319-1200 Fax 212-593-5793
One of The Related Companies

May 21, 2002

Mr. R. Radhakrishnan, P.E.
Director
Asbestos Control Program
New York City Department of
Environmental Protection
59-17 Junction Boulevard, 8th Floor
Corona, New York 11373-5108

Re: Tribeca Tower
105 Duane Street
NY, NY

Dear Mr. Radhakrishnan:

As requested, enclosed you will find for your information and use the Summary Report for Ambient Air Sampling and Visual Observations Performed Following the Collapse of The World Trade Center Buildings at Tribeca Tower dated February 11, 2002, as prepared by ATC Associates.

Should you have any further questions, or issues please feel free to contact me directly at (212) 521-6404.

Very Truly Yours,

Peter S. Hoyle
Director of Engineering

Xc: Jeff Brodsky
Tami Caldwell-Kimble/Diana Penn

headline

CA 11

As we discussed

5762- 62258	44	1300	0.0	0.0044 *	
5762- 62259	45	1300	0.0	0.0044 *	
5762- 62262	48	1300	0.0	0.0044 *	
5762- 62263	49	1300	0.0	0.0044 *	
5762- 62264	50	1300	0.0	0.0044 *	
5762- 62265	51	1300	0.0	0.0044 *	
Average=		0.3	0.0044	3	

2) Outside Samples

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

3) Blanks

		<u>Asbestos Concentration</u>			
TEM#	Project #	S/mm ²	S/cc	ngm/m ³	
5762- 62215	1	- - - - -	Not Analyzed	- - - - -	- - - - -
5762- 62216	2	- - - - -	Not Analyzed	- - - - -	- - - - -
5762- 62235	21	- - - - -	Not Analyzed	- - - - -	- - - - -
5762- 62260	46	- - - - -	Not Analyzed	- - - - -	- - - - -
5762- 62261	47	- - - - -	Not Analyzed	- - - - -	- - - - -
Average=		N/A	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.

mf
Analyzed by:
Marek Peysakhov

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

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

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

Approved N.Y. State ELAP #10879
ACCREDITED NVLAP Lab Code # 1187
Report Date: 10/25/01

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: Tribeca, 105 Duane St., NY, NY

TEM Sample No.: 5762 - 62217

Various Sites

Date Received: 10/25/01

Grid Openings Analyzed: 6

Project Sample No.: 3

Average Grid Opening: 106.00 um

Air Volume: 1300 liters

Total Area Analyzed: 0.0674 mm2

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

Analytical Sensitivity: 14.8 g/mm2

Effective Area: 385 mm2

0.0044 g/cc

FIBROUS PARTICULATES ANALYZED

Number Observed

CONCENTRATION

	Single			Matrix	Total.	Total Struct. >=5um	Filter		Air
	Fibers	Bundles	Clusters		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:

Marek Peysakhov

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

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New York, New York 10010

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New York, NY 10010

Approved N.Y. State ELAP #10879
ACCREDITED NVLAP Lab Code # 1187
Report Date: 10/25/01

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: Tribeca, 105 Duane St., NY, NY

TEM Sample No.: 5762 - 62218

Various Sites

Date Received: 10/25/01

Grid Openings Analyzed: 6

Project Sample No.: 4

Average Grid Opening: 106.00 um

Air Volume: 1300 liters

Total Area Analyzed: 0.0674 mm2

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

Analytical Sensitivity: 14.8 s/mm2

Effective Area: 385 mm2

0.0044 s/cc

FIBROUS PARTICULATES ANALYZED

Number Observed

CONCENTRATION

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

Marek 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: 10/25/01

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: Tribeca, 105 Duane St., NY, NY

TEM Sample No.: 5762 - 62219

Various Sites

Date Received: 10/25/01

Grid Openings Analyzed: 6

Project Sample No.: 5

Average Grid Opening: 106.00 um

Air Volume: 1300 liters

Total Area Analyzed: 0.0674 mm2

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

Analytical Sensitivity: 14.8 s/mm2

Effective Area: 385 mm2

0.0044 s/cc

FIBROUS PARTICULATES ANALYZED

Number Observed

CONCENTRATION

	Single			Matrix		Total Struct. >=5um	Filter		Air ngm/m3
	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:

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Report Date: 10/25/01

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: Tribeca, 105 Duane St., NY, NY

TEM Sample No.: 5762 - 62220

Various Sites

Date Received: 10/25/01

Grid Openings Analyzed: 6

Project Sample No.: 6

Average Grid Opening: 106.00 um

Air Volume: 1300 liters

Total Area Analyzed: 0.0674 mm2

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

Analytical Sensitivity: 14.8 s/mm2

Effective Area: 385 mm2

0.0044 s/cc

FIBROUS PARTICULATES ANALYZED

Number Observed

CONCENTRATION

	Single			Matrix	Total.	Total	Filter		Air
	Fibers	Bundles	Clusters		Struct.	Struct. >=5um	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: Tribeca, 105 Duane St., NY, NY

TEM Sample No.: 5762 - 62221

Various Sites

Date Received: 10/25/01

Grid Openings Analyzed: 6

Project Sample No.: 7

Average Grid Opening: 106.00 um

Air Volume: 1300 liters

Total Area Analyzed: 0.0674 mm2

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

Analytical Sensitivity: 14.8 s/mm2

Effective Area: 385 mm2

0.0044 s/cc

FIBROUS PARTICULATES ANALYZED

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

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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: Tribeca, 105 Duane St., NY, NY

TEM Sample No.: 5762 - 62222

Various Sites

Date Received: 10/25/01

Grid Openings Analyzed: 6

Project Sample No.: 8

Average Grid Opening: 106.00 um

Air Volume: 1300 liters

Total Area Analyzed: 0.0674 mm2

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

Analytical Sensitivity: 14.8 s/mm2

Effective Area: 385 mm2

0.0044 s/cc

FIBROUS PARTICULATES ANALYZED

Number Observed

CONCENTRATION

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

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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: Tribeca, 105 Duane St., NY, NY

TEM Sample No.: 5762 - 62223

Various Sites

Date Received: 10/25/01

Grid Openings Analyzed: 6

Project Sample No.: 9

Average Grid Opening: 106.00 um

Air Volume: 1300 liters

Total Area Analyzed: 0.0674 mm2

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

Analytical Sensitivity: 14.8 s/mm2

Effective Area: 385 mm2

0.0044 s/cc

FIBROUS PARTICULATES ANALYZED

Number Observed

CONCENTRATION

	Single			Matrix		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:

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Report Date: 10/25/01

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: Tribeca, 105 Duane St., NY, NY

TEM Sample No.: 5762 - 62224

Various Sites

Date Received: 10/25/01

Grid Openings Analyzed: 6

Project Sample No.: 10

Average Grid Opening: 106.00 um

Air Volume: 1300 liters

Total Area Analyzed: 0.0674 mm2

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

Analytical Sensitivity: 14.8 s/mm2

Effective Area: 385 mm2

0.0044 s/cc

FIBROUS PARTICULATES ANALYZED

Number Observed

CONCENTRATION

	<u>Number Observed</u>			<u>Total</u>			<u>Filter</u>		<u>Air</u>
	<u>Single</u>	<u>Matrix</u>	<u>Total.</u>	<u>Struct.</u>	<u>Total.</u>	<u>Struct.</u>	<u>Struct/mm2</u>	<u>Struct/cc</u>	<u>ngm/m3</u>
	<u>Fibers</u>								
	<u>Bundles</u>	<u>Clusters</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	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	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 Date: 10/25/01

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: Tribeca, 105 Duane St., NY, NY

TEM Sample No.: 5762 - 62225

Various Sites

Date Received: 10/25/01

Grid Openings Analyzed: 6

Project Sample No.: 11

Average Grid Opening: 106.00 um

Air Volume: 1300 liters

Total Area Analyzed: 0.0674 mm2

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

Analytical Sensitivity: 14.8 s/mm2

Effective Area: 385 mm2

0.0044 s/cc

FIBROUS PARTICULATES ANALYZED

Number Observed

CONCENTRATION

	<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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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: Tribeca, 105 Duane St., NY, NY

TEM Sample No.: 5762 - 62227

Various Sites

Date Received: 10/25/01

Grid Openings Analyzed: 6

Project Sample No.: 13

Average Grid Opening: 106.00 um

Air Volume: 1300 liters

Total Area Analyzed: 0.0674 mm2

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

Analytical Sensitivity: 14.8 s/mm2

Effective Area: 385 mm2

0.0044 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:

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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: Tribeca, 105 Duane St., NY, NY

TEM Sample No.: 5762 - 62228

Various Sites

Date Received: 10/25/01

Grid Openings Analyzed: 6

Project Sample No.: 14

Average Grid Opening: 106.00 um

Air Volume: 1300 liters

Total Area Analyzed: 0.0674 mm2

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

Analytical Sensitivity: 14.8 s/mm2

Effective Area: 385 mm2

0.0044 s/cc

FIBROUS PARTICULATES ANALYZED

Number Observed

CONCENTRATION

	<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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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: Tribeca, 105 Duane St., NY, NY

TEM Sample No.: 5762 - 62229

Various Sites

Date Received: 10/25/01

Grid Openings Analyzed: 6

Project Sample No.: 15

Average Grid Opening: 106.00 um

Air Volume: 1300 liters

Total Area Analyzed: 0.0674 mm2

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

Analytical Sensitivity: 14.8 s/mm2

Effective Area: 385 mm2

0.0044 s/cc

FIBROUS PARTICULATES ANALYZED

Number Observed

CONCENTRATION

	<u>Number Observed</u>			<u>CONCENTRATION</u>					
	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	1	1	0	14.8	0.0044	145
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	14.8	0.0044	145
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	14.8	0.0044	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: Tribeca, 105 Duane St., NY, NY

TEM Sample No.: 5762 - 62230

Various Sites

Date Received: 10/25/01

Grid Openings Analyzed: 6

Project Sample No.: 16

Average Grid Opening: 106.00 um

Air Volume: 1300 liters

Total Area Analyzed: 0.0674 mm2

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

Analytical Sensitivity: 14.8 s/mm2

Effective Area: 385 mm2

0.0044 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:

Marek 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: 10/25/01

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: Tribeca, 105 Duane St., NY, NY

TEM Sample No.: 5762 - 62231

Various Sites

Date Received: 10/25/01

Grid Openings Analyzed: 6

Project Sample No.: 17

Average Grid Opening: 106.00 um

Air Volume: 1300 liters

Total Area Analyzed: 0.0674 mm2

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

Analytical Sensitivity: 14.8 s/mm2

Effective Area: 385 mm2

0.0044 s/cc

FIBROUS PARTICULATES ANALYZED

Number Observed

CONCENTRATION

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

Marek 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

Analysis Parameters

Sample Identification

Project/Site: Tribeca, 105 Duane St., NY, NY
Various Sites

Date Received: 10/25/01

Project Sample No.: 18

Air Volume: 1300 liters

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

TEM Sample No.: 5762 - 62232

Grid Openings Analyzed: 6

Average Grid Opening: 106.00 um

Total Area Analyzed: 0.0674 mm²

Analytical Sensitivity: 14.8 s/mm²
0.0044 s/cc

FIBROUS PARTICULATES ANALYZED

CONCENTRATION

	<u>Number Observed</u>			<u>Matrix Struct.</u>	<u>Total Struct.</u>	<u>Total Struct. >=5um</u>
	<u>Single Fibers</u>	<u>Bundles</u>	<u>Clusters</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
					0	0

<u>Filter Struct/mm²</u>	<u>Filter Struct/cc</u>	<u>Air ngm/m³</u>
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

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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Report Date: 10/25/01

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: Tribeca, 105 Duane St., NY, NY

Various Sites

Date Received: 10/25/01

Project Sample No.: 19

Air Volume: 1300 liters

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

Analysis Parameters

TEM Sample No.: 5762 - 62233

Grid Openings Analyzed: 6

Average Grid Opening: 106.00 um

Total Area Analyzed: 0.0674 mm2

Analytical Sensitivity: 14.8 s/mm2
0.0044 s/cc

FIBROUS PARTICULATES ANALYZED

	<u>Number Observed</u>			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:

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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: Tribeca, 105 Duane St., NY, NY

TEM Sample No.: 5762 - 62234

Various Sites

Date Received: 10/25/01

Grid Openings Analyzed: 6

Project Sample No.: 20

Average Grid Opening: 106.00 um

Air Volume: 1300 liters

Total Area Analyzed: 0.0674 mm2

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

Analytical Sensitivity: 14.8 s/mm2

Effective Area: 385 mm2

0.0044 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:

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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: Tribeca, 105 Duane St., NY, NY

TEM Sample No.: 5762 - 62236

Various Sites

Date Received: 10/25/01

Grid Openings Analyzed: 6

Project Sample No.: 22

Average Grid Opening: 106.00 um

Air Volume: 1300 liters

Total Area Analyzed: 0.0674 mm2

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

Analytical Sensitivity: 14.8 s/mm2

Effective Area: 385 mm2

0.0044 s/cc

FIBROUS PARTICULATES ANALYZED

Number Observed

CONCENTRATION

	Single			Matrix		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:

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Report Date: 10/25/01

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: Tribeca, 105 Duane St., NY, NY

TEM Sample No.: 5762 - 62237

Various Sites

Date Received: 10/25/01

Grid Openings Analyzed: 6

Project Sample No.: 23

Average Grid Opening: 106.00 um

Air Volume: 1300 liters

Total Area Analyzed: 0.0674 mm2

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

Analytical Sensitivity: 14.8 s/mm2

Effective Area: 385 mm2

0.0044 s/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.

Analyzed by:

Report Reviewed by:

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Report Date: 10/25/01

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: Tribeca, 105 Duane St., NY, NY

Various Sites

Date Received: 10/25/01

Project Sample No.: 24

Air Volume: 1300 liters

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

TEM Sample No.: 5762 - 62238

Grid Openings Analyzed: 6

Average Grid Opening: 106.00 um

Total Area Analyzed: 0.0674 mm2

Analytical Sensitivity: 14.8 s/mm2
0.0044 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
					0	0

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

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

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Report Date: 10/25/01

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: Tribeca, 105 Duane St., NY, NY

Various Sites

Date Received: 10/25/01

Project Sample No.: 25

Air Volume: 1300 liters

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

Analysis Parameters

TEM Sample No.: 5762 - 62239

Grid Openings Analyzed: 6

Average Grid Opening: 106.00 um

Total Area Analyzed: 0.0674 mm2

Analytical Sensitivity: 14.8 s/mm2
0.0044 s/cc

FIBROUS PARTICULATES ANALYZED

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

CONCENTRATION

Filter		Air
<u>Struct/mm2</u>	<u>Struct/cc</u>	<u>ngm/m3</u>
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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Report Date: 10/25/01

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: Tribeca, 105 Duane St., NY, NY

TEM Sample No.: 5762 - 62240

Various Sites

Date Received: 10/25/01

Grid Openings Analyzed: 6

Project Sample No.: 26

Average Grid Opening: 106.00 um

Air Volume: 1300 liters

Total Area Analyzed: 0.0674 mm2

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

Analytical Sensitivity: 14.8 s/mm2

Effective Area: 385 mm2

0.0044 s/cc

FIBROUS PARTICULATES ANALYZED

Number Observed

CONCENTRATION

	Number Observed			Total			Filter		Air
	Single Fibers	Bundles	Clusters	Matrix Struct.	Total 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: Tribeca, 105 Duane St., NY, NY

TEM Sample No.: 5762 - 62241

Various Sites

Date Received: 10/25/01

Grid Openings Analyzed: 6

Project Sample No.: 27

Average Grid Opening: 106.00 um

Air Volume: 1300 liters

Total Area Analyzed: 0.0674 mm2

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

Analytical Sensitivity: 14.8 s/mm2

Effective Area: 385 mm2

0.0044 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: Tribeca, 105 Duane St., NY, NY

TEM Sample No.: 5762 - 62242

Various Sites

Date Received: 10/25/01

Grid Openings Analyzed: 6

Project Sample No.: 28

Average Grid Opening: 106.00 um

Air Volume: 1300 liters

Total Area Analyzed: 0.0674 mm2

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

Analytical Sensitivity: 14.8 s/mm2

Effective Area: 385 mm2

0.0044 s/cc

FIBROUS PARTICULATES ANALYZED

Number Observed

CONCENTRATION

	Single			Matrix	Total.	Total	Filter		
	Fibers	Bundles	Clusters		Struct.	Struct.	Struct/mm2	Struct/cc	Air
				Struct.	Struct.	>=5um			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: 10/25/01

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: Tribeca, 105 Duane St., NY, NY

TEM Sample No.: 5762 - 62243

Various Sites

Date Received: 10/25/01

Grid Openings Analyzed: 6

Project Sample No.: 29

Average Grid Opening: 106.00 um

Air Volume: 1300 liters

Total Area Analyzed: 0.0674 mm2

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

Analytical Sensitivity: 14.8 s/mm2

Effective Area: 385 mm2

0.0044 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: Tribeca, 105 Duane St., NY, NY

TEM Sample No.: 5762 - 62244

Various Sites

Date Received: 10/25/01

Grid Openings Analyzed: 6

Project Sample No.: 30

Average Grid Opening: 106.00 um

Air Volume: 1300 liters

Total Area Analyzed: 0.0674 mm2

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

Analytical Sensitivity: 14.8 s/mm2

Effective Area: 385 mm2

0.0044 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.

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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: Tribeca, 105 Duane St., NY, NY

TEM Sample No.: 5762 - 62245

Various Sites

Date Received: 10/25/01

Grid Openings Analyzed: 6

Project Sample No.: 31

Average Grid Opening: 106.00 um

Air Volume: 1300 liters

Total Area Analyzed: 0.0674 mm2

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

Analytical Sensitivity: 14.8 s/mm2

Effective Area: 385 mm2

0.0044 s/cc

FIBROUS PARTICULATES ANALYZED

Number Observed

CONCENTRATION

	Single			Matrix		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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Report Date: 10/25/01

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: Tribeca, 105 Duane St., NY, NY

TEM Sample No.: 5762 - 62246

Various Sites

Date Received: 10/25/01

Grid Openings Analyzed: 6

Project Sample No.: 32

Average Grid Opening: 106.00 um

Air Volume: 1300 liters

Total Area Analyzed: 0.0674 mm2

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

Analytical Sensitivity: 14.8 s/mm2

Effective Area: 385 mm2

0.0044 s/cc

FIBROUS PARTICULATES ANALYZED

Number Observed

CONCENTRATION

	Single			Matrix	Total	Total Struct. >=5um	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:

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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: Tribeca, 105 Duane St., NY, NY

TEM Sample No.: 5762 - 62247

Various Sites

Date Received: 10/25/01

Grid Openings Analyzed: 6

Project Sample No.: 33

Average Grid Opening: 106.00 um

Air Volume: 1300 liters

Total Area Analyzed: 0.0674 mm2

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

Analytical Sensitivity: 14.8 s/mm2

Effective Area: 385 mm2

0.0044 s/cc

FIBROUS PARTICULATES ANALYZED

Number Observed

CONCENTRATION

	Single			Matrix	Total	Total	Filter		Air
	Fibers	Bundles	Clusters		Struct.	Struct. >=5um	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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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: Tribeca, 105 Duane St., NY, NY

TEM Sample No.: 5762 - 62248

Various Sites

Date Received: 10/25/01

Grid Openings Analyzed: 6

Project Sample No.: 34

Average Grid Opening: 106.00 um

Air Volume: 1300 liters

Total Area Analyzed: 0.0674 mm2

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

Analytical Sensitivity: 14.8 s/mm2

Effective Area: 385 mm2

0.0044 s/cc

FIBROUS PARTICULATES ANALYZED

Number Observed

CONCENTRATION

	Single			Matrix		Total.	Total	Filter		Air
	Fibers	Bundles	Clusters	Struct.	Struct.			Struct/mm2	Struct/cc	
Chrysotile Asbestos	0	0	0	0	0	0	0	0.0	0.0000	0
Amphibole Asbestos	0	0	0	0	0	0	0	0.0	0.0000	0
Ambiguous	0	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	0.0000	N/A
No Identification	0	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: 10/25/01

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: Tribeca, 105 Duane St., NY, NY

TEM Sample No.: 5762 - 62249

Various Sites

Date Received: 10/25/01

Grid Openings Analyzed: 6

Project Sample No.: 35

Average Grid Opening: 106.00 um

Air Volume: 1300 liters

Total Area Analyzed: 0.0674 mm2

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

Analytical Sensitivity: 14.8 s/mm2

Effective Area: 385 mm2

0.0044 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:

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Report Date: 10/25/01

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: Tribeca, 105 Duane St., NY, NY

TEM Sample No.: 5762 - 62250

Various Sites

Date Received: 10/25/01

Grid Openings Analyzed: 6

Project Sample No.: 36

Average Grid Opening: 106.00 um

Air Volume: 1300 liters

Total Area Analyzed: 0.0674 mm2

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

Analytical Sensitivity: 14.8 s/mm2

Effective Area: 385 mm2

0.0044 s/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.

Analyzed by:

Report Reviewed by:

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Report Date: 10/25/01

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: Tribeca, 105 Duane St., NY, NY

TEM Sample No.: 5762 - 62251

Various Sites

Date Received: 10/25/01

Grid Openings Analyzed: 6

Project Sample No.: 37

Average Grid Opening: 106.00 um

Air Volume: 1300 liters

Total Area Analyzed: 0.0674 mm2

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

Analytical Sensitivity: 14.8 s/mm2

Effective Area: 385 mm2

0.0044 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:

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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: Tribeca, 105 Duane St., NY, NY

TEM Sample No.: 5762 - 62252

Various Sites

Date Received: 10/25/01

Grid Openings Analyzed: 6

Project Sample No.: 38

Average Grid Opening: 106.00 um

Air Volume: 1300 liters

Total Area Analyzed: 0.0674 mm2

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

Analytical Sensitivity: 14.8 s/mm2

Effective Area: 385 mm2

0.0044 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:

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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: Tribeca, 105 Duane St., NY, NY

TEM Sample No.: 5762 - 62253

Various Sites

Date Received: 10/25/01

Grid Openings Analyzed: 6

Project Sample No.: 39

Average Grid Opening: 106.00 um

Air Volume: 1300 liters

Total Area Analyzed: 0.0674 mm2

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

Analytical Sensitivity: 14.8 s/mm2

Effective Area: 385 mm2

0.0044 s/cc

FIBROUS PARTICULATES ANALYZED

Number Observed

CONCENTRATION

	Single			Matrix	Total	Total	Filter		Air
	Fibers	Bundles	Clusters		Struct.	Struct. $\geq 5\mu m$	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

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

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

Approved N.Y. State ELAP #10879
ACCREDITED NVLAP Lab Code # 1187
Report Date: 10/25/01

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: Tribeca, 105 Duane St., NY, NY

TEM Sample No.: 5762 - 62254

Various Sites

Date Received: 10/25/01

Grid Openings Analyzed: 6

Project Sample No.: 40

Average Grid Opening: 106.00 um

Air Volume: 1300 liters

Total Area Analyzed: 0.0674 mm2

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

Analytical Sensitivity: 14.8 s/mm2

Effective Area: 385 mm2

0.0044 s/cc

FIBROUS PARTICULATES ANALYZED

Number Observed

CONCENTRATION

	Number Observed			Total			Filter		Air
	Single Fibers	Bundles	Clusters	Matrix Struct.	Total 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: Tribeca, 105 Duane St., NY, NY

TEM Sample No.: 5762 - 62255

Various Sites

Date Received: 10/25/01

Grid Openings Analyzed: 6

Project Sample No.: 41

Average Grid Opening: 106.00 um

Air Volume: 1300 liters

Total Area Analyzed: 0.0674 mm2

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

Analytical Sensitivity: 14.8 s/mm2

Effective Area: 385 mm2

0.0044 s/cc

FIBROUS PARTICULATES ANALYZED

Number Observed

CONCENTRATION

	Single			Matrix	Total	Total Struct. >=5um	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

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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: Tribeca, 105 Duane St., NY, NY

TEM Sample No.: 5762 - 62256

Various Sites

Date Received: 10/25/01

Grid Openings Analyzed: 6

Project Sample No.: 42

Average Grid Opening: 106.00 um

Air Volume: 1300 liters

Total Area Analyzed: 0.0674 mm2

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

Analytical Sensitivity: 14.8 s/mm2

Effective Area: 385 mm2

0.0044 s/cc

FIBROUS PARTICULATES ANALYZED

Number Observed

CONCENTRATION

	Single			Matrix	Total.	Total Struct. >=5um	Filter		Air
	Fibers	Bundles	Clusters		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:

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Report Date: 10/25/01

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: Tribeca, 105 Duane St., NY, NY

TEM Sample No.: 5762 - 62257

Various Sites

Date Received: 10/25/01

Grid Openings Analyzed: 6

Project Sample No.: 43

Average Grid Opening: 106.00 um

Air Volume: 1300 liters

Total Area Analyzed: 0.0674 mm2

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

Analytical Sensitivity: 14.8 s/mm2

Effective Area: 385 mm2

0.0044 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

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Director of Electron Microscopy

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Approved N.Y. State ELAP #10879
ACCREDITED NVLAP Lab Code # 1187
Report Date: 10/25/01

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: Tribeca, 105 Duane St., NY, NY

TEM Sample No.: 5762 - 62258

Various Sites

Date Received: 10/25/01

Grid Openings Analyzed: 6

Project Sample No.: 44

Average Grid Opening: 106.00 um

Air Volume: 1300 liters

Total Area Analyzed: 0.0674 mm2

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

Analytical Sensitivity: 14.8 s/mm2

Effective Area: 385 mm2

0.0044 s/cc

FIBROUS PARTICULATES ANALYZED

	<u>Number Observed</u>						<u>CONCENTRATION</u>		
				Matrix	Total.	Total	Filter		Air
	Single 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: 10/25/01

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: Tribeca, 105 Duane St., NY, NY

TEM Sample No.: 5762 - 62259

Various Sites

Date Received: 10/25/01

Grid Openings Analyzed: 6

Project Sample No.: 45

Average Grid Opening: 106.00 um

Air Volume: 1300 liters

Total Area Analyzed: 0.0674 mm2

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

Analytical Sensitivity: 14.8 s/mm2

Effective Area: 385 mm2

0.0044 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.	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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Director of Electron Microscopy

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Approved N.Y. State ELAP #10879
ACCREDITED NVLAP Lab Code # 1187
Report Date: 10/25/01

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: Tribeca, 105 Duane St., NY, NY

TEM Sample No.: 5762 - 62262

Various Sites

Date Received: 10/25/01

Grid Openings Analyzed: 6

Project Sample No.: 48

Average Grid Opening: 106.00 um

Air Volume: 1300 liters

Total Area Analyzed: 0.0674 mm2

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

Analytical Sensitivity: 14.8 s/mm2

Effective Area: 385 mm2

0.0044 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

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Report Date: 10/25/01

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: Tribeca, 105 Duane St., NY, NY

TEM Sample No.: 5762 - 62263

Various Sites

Date Received: 10/25/01

Grid Openings Analyzed: 6

Project Sample No.: 49

Average Grid Opening: 106.00 um

Air Volume: 1300 liters

Total Area Analyzed: 0.0674 mm2

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

Analytical Sensitivity: 14.8 s/mm2

Effective Area: 385 mm2

0.0044 s/cc

FIBROUS PARTICULATES ANALYZED

Number Observed

CONCENTRATION

	Single			Matrix Struct.	Total Struct.	Total Struct. >=5um	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

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Director of Electron Microscopy

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Report Date: 10/25/01

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: Tribeca, 105 Duane St., NY, NY

Various Sites
Date Received: 10/25/01

Project Sample No.: 50

Air Volume: 1300 liters

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

Analysis Parameters

TEM Sample No.: 5762 - 62264

Grid Openings Analyzed: 6

Average Grid Opening: 106.00 um

Total Area Analyzed: 0.0674 mm2

Analytical Sensitivity: 14.8 s/mm2
0.0044 s/cc

FIBROUS PARTICULATES ANALYZED

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

CONCENTRATION

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

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:

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

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Approved N.Y. State ELAP #10879
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Report Date: 10/25/01

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: Tribeca, 105 Duane St., NY, NY

Various Sites

Date Received: 10/25/01

Project Sample No.: 51

Air Volume: 1300 liters

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

Analysis Parameters

TEM Sample No.: 5762 - 62265

Grid Openings Analyzed: 6

Average Grid Opening: 106.00 um

Total Area Analyzed: 0.0674 mm2

Analytical Sensitivity: 14.8 s/mm2
0.0044 s/cc

FIBROUS PARTICULATES ANALYZED

	<u>Number Observed</u>			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	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



AIR MONITORING DATA

AND

CHAIN OF CUSTODY FORM

PROJECT INFORMATION

1. Client: 5762 46/51

2. Project Name: 5762 46/51

3. Project # 62215-62265

4. Project Monitoring: SD-139

5. Date: 10/10/11

6. Abatement Location: 10/10/11

7. ☐ PCM (0.5 micron MCE)
Cassette/Filter Manufacture NAVI
Lot # 20226915

8. ☐ TEM (0.45 micron MCE)
Cassette/Filter Manufacture NAVI
Lot # 20226915

9. Type: ☐ Abatement ☐ Environmental
☐ Background ☐ Post-Abate ☐ Ambient
☐ Pre-Abate ☐ OSHA ☐ Other

10. Rolameter Number: SD-139

TURNAROUND TIME

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

Page 1 of 2

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/CC
		12a. IWA	12b. OWA	13a. Start	13b. End	13c. Total	14a. Start	14b. End	14b. Avg	
1	1									
2	2									
22.1	3			10:50	13:00	1300				
22.2	4			10:55	13:05	1305				
23.3	5			11:00	13:10	1310				
23.1	6			11:05	13:15	1315				
23.1	7			11:10	13:20	1320				
23.1	8			11:15	13:25	1325				

CHAIN OF CUSTODY

18. Relinquished By: mgg

19. Received By: mgg

20. Date: 10/25

21. Time: 0800

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

22. Lab Name: 76227

23. Date: 10/25

24. Time: 0800

25. Microscope Make/Serial #:

☐ Nikon Labophot 238913

☐ Nikon Labophot 238917

☐ Nikon Labophot 239079

Analysis Methodology

PCM - NIOSH 7400A

TEM - AHERA

WHITE - File YELLOW - Client/Report

PINK - Lab GOLDENROD - Field

NY-1 (1/01)



AIR MONITORING DATA AND CHAIN OF CUSTODY FORM

Page 2 of 2

PROJECT INFORMATION

Client: Fibecor 2. Project Name: 105 Duane st NY NY

Date: 09/01 6. Abatement Location: 105 Duane st NY NY

7. ☐ PCM (0.8 micron MCE) 8. ☒ TEM (0.45 micron MCE)

Cassette/Filter Manufacturer: Lot # 00266918

3. Project # 105 Duane st NY NY 3a. Task # 105 Duane st NY NY

4. Project Monitor: Lin Glass/105 Duane st NY NY 4a. Air Sampler: 105 Duane st NY NY

9. Type: c. ☐ Abatement d. ☐ Post-Abate e. ☐ OSHA

10. Rotameter Number: SD-152

TURNAROUND TIME

☐ 2 hrs ☐ 6 hrs ☐ 48 hrs ☒ Standard

☐ 4 hrs ☐ 24 hrs ☐ 72 hrs ☐ Other

DAILY AIR SAMPLE RECORD

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. IWA	12b. OWA	13a. Start	13b. End	13c. Total	14a. Start	14b. End			
7-1	9	V		1120	1330	130	10	10	1300		
8-1	10	V		1125	1355	130	10	10	1300		
9-1	11	V		1410	1620	130	10	10	1300		
10-1	12	V		1415	1625	130	10	10	1300		
15-1	13	V		1420	1630	130	10	10	1300		
15-2	14	J		1425	1635	130	10	10	1300		

CHAIN OF CUSTODY

Relinquished By: [Signature] 19. Received By: [Signature] 20. Date: 09/01 21. Time: 0800

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

22. Lab Name: TEM 23. Date: 09/01 24. Time: 0800

a. Analyzed By: [Signature] b. QC By: [Signature] c. Lab Batch #: [Signature]

25. Microscope Make/Serial #: [Signature] ☐ Nikon Labophot 238913 ☐ Nikon Labophot 238917 ☐ Nikon Labophot 239079

Analysis Methodology: PCM - NIOSH 7400A TEM - AMERA

ATC Project Manager:

27. Result To: Ed Bernhardt Beeper/Phone #s: [Signature]

WHITE - File YELLOW - Client/Report

PINK - Lab GOLDENROD - Field



AIR MONITORING DATA
AND
CHAIN OF CUSTODY FORM

PROJECT INFORMATION

Client: Pibeca 2. Project Name: 105 Duane st NY ny
Date: 09/01 6. Abatement Location: 105 Duane st NY ny
7. ☐ PCM (0.5 micron MCE) 8. ☒ TEM (0.45 micron MCE)
Cassette/Filter Manufacture Lot # 00266915
9. Type: a. ☐ Background b. ☐ Pre-Abate c. ☐ Abatement d. ☐ Post-Abate e. ☐ OSHA
4a. Air Sampler: Mar 4b. Project Monitor: Mar 4c. Reliometer Number: SP-132

TURNAROUND TIME

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

Page 2 of 2

DAILY AIR SAMPLE RECORD

Sample I.D. Number	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. IWA	12b. OWA	13a. Start	13b. End	14a. Start	14b. End			
11-23	15			1340	1550	10	10	1300		
11-22	16			1345	1555	10	10	1300		
11-20	17			1350	1600	10	10	1300		
1-18	18			1355	1605	10	10	1300		
1-8	19			1400	1610	10	10	1300		
1-7	20			1405	1615	10	10	1300		

CHAIN OF CUSTODY

Relinquished By: Asghar 19. Received By: Asghar 20. Date: 10/25 21. Time: 0800
22. Lab Name: TEM 23. Date: 10/25 24. Time: 0800
a. Analyzed By: Asghar b. QC By: Asghar c. Lab Batch #: Asghar
25. Microscope Make/Serial #: Asghar
☐ Nikon Labophot 238913
☐ Nikon Labophot 238917
☐ Nikon Labophot 239079
Analysis Methodology: Asghar
PCM - NIOSH 7400A
TEM - AHERA
26. Project Manager: Asghar 27. Result To: Asghar 28. Comments: Asghar



AIR MONITORING DATA

AND

CHAIN OF CUSTODY FORM

PROJECT INFORMATION

1. Client: Libbee 2. Project Name: 5767 3. Project #: 4444 4c. Rolameter Number: SD-132

5. Date: 10/24/01 6. Abatement Location: 105 Duane st NY NY 7. ☐ PCM (0.8 micron MCE) 8. ☒ TEM (0.45 micron MCE) 9. Type: 1447

10. 10/24/01 11. 105 Duane st NY NY 12. 105 Duane st NY NY 13. 105 Duane st NY NY 14. 105 Duane st NY NY 15. 105 Duane st NY NY 16. 105 Duane st NY NY 17. 105 Duane st NY NY

DAILY AIR SAMPLE RECORD

11. Sample ID 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
5	Field Blank	13a. Start 13b. End	14a. Start 14b. End	14b. Avg		
11-1	✓	1430 1640	10 10	10 10	1300	
11-2	✓	1435 1645	10 10	10 10	1300	
11-3	✓	1440 1650	10 10	10 10	1300	
11-4	✓	1445 1655	10 10	10 10	1300	
11-5	✓	1820 2030	10 10	10 10	1300	
11-6	✓	1825 2035	10 10	10 10	1300	

CHAIN OF CUSTODY

3. Relinquished By: [Signature] 19. Received By: [Signature] 20. Date: 10/25/01 21. Time: 0800

27. Result To: [Signature] Beeper/Phone #':

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

22. Lab Name: TEM 23. Date: 24. Time:

a. Analyzed By: b. QC By: c. Lab Batch #:

25. Microscope Make/Serial #: ☐ Nikon Labophot 238913 ☐ Nikon Labophot 238917 ☐ Nikon Labophot 239079

Analysis Methodology: PCM - NIOSH 7400A TEM - AIHRA



AIR MONITORING DATA
AND
CHAIN OF CUSTODY FORM

PROJECT INFORMATION

1. Client Tibeco	2. Project Name 105 Duane st NY NY	3. Project #	4. Project Monitor:
5. Date: 10/29/01	6. Abatement Location: 105 Duane st NY NY	3a. Task #	4a. Air Sampler:
7. ☐ PCM (0.8 micron MCE) Cassette/Filter Manufacture Lot #	8. ☒ TEM (0.45 micron MCE) Cassette/Filter Manufacture Lot #	9. Type: a. ☐ Background b. ☐ Pre-Abate c. ☐ Abatement d. ☐ Post-Abate e. ☐ OSHA	f. ☐ Environmental g. ☒ Ambient h. ☐ Other

TURNAROUND TIME

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

DAILY AIR SAMPLE RECORD

Sample I.D. Number	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. IWA	12b. OWA	13a. Start	13b. End	13c. Total	14a. Start	14b. End	14b. Avg			
11-01	28	X										
11-19	29	X		1700	1910	130	10	10	10	1300		
11-15	30	V		1705	1915	130	10	10	10	1300		
11-11	31	V		1710	1920	130	10	10	10	1300		
11-9	32	V		1715	1925	130	10	10	10	1300		
11-5	33	V		1720	1930	130	10	10	10	1300		
				1725	1935	130	10	10	10	1300		

CHAIN OF CUSTODY

8. Relinquished By:	19. Received By:	20. Date:	21. Time:
	Ngyle	10/25	0800
1			
11			

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

22. Lab Name:	23. Date:	24. Time:
a. Analyzed By:		
b. QC By:		
c. Lab Batch #:		
25. Microscope Make/Serial #:		
☐ Nikon Labophot 238913		
☐ Nikon Labophot 238917		
☐ Nikon Labophot 239079		
Analysis Methodology		
PCM - NIOSH 7400A		
TEM - AHERA		

ATC Project Manager:

27. Result To:	27. Result To:
Red Bernhardt	B. Bernhardt
Beeper/Phone #'s	

WHITE - File YELLOW - Client/Report

PINK - Lab GOLDENROD - Field



AIR MONITORING DATA

AND

CHAIN OF CUSTODY FORM

Page 6 of 6

TURNAROUND TIME

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

PROJECT INFORMATION

1. Client: Gibco 2. Project Name: Buene 31 NY 201 3. Project # 105 4. Project Monitor: NYC Health Dept 4c. Rotameter Number: SD-132

5. Date: 02/24/01 6. Abatement Location: 105 Buene 31 NY 201 7. ☐ PCM (0.8 micron MCE) 8. ☒ TEM (0.45 micron MCE) 9. Type: MAN

10. ☐ PCM (0.8 micron MCE) 11. ☐ PCM (0.45 micron MCE) 12. ☐ PCM (0.45 micron MCE) 13. ☐ PCM (0.45 micron MCE) 14. ☐ PCM (0.45 micron MCE)

DAILY AIR SAMPLE RECORD

11. Sample I.D. Number	12. Sample Location	13a. Start	13b. End	13c. Total	14a. Start	14b. End	14c. Avg	15. Total Air Vol. (liters)	16. # Fibers/Fields Minus Blank	17. Fiber Conc. F/CC
15-2	APY #	1830	2040	130	10	10	10	1300		
14-1	15J	1835	2045	130	10	10	10	1300		
12-1-2	APY #	1840	2050	130	10	10	10	1300		
11-2	12L	1845	2055	130	10	10	10	1300		
11-1	APY #	1850	2100	130	10	10	10	1300		
	11C			130	10	10	10	1300		
	APY #									
	41F									

CHAIN OF CUSTODY

Relinquished By: 11-2 19. Received By: 11-2 20. Date: 02/25 21. Time: 0800

22. Lab Name: 7C-24 23. Date: 7C-24 24. Time: 7C-24

25. Microscope Make/Serial #: [] Nikon Labophot 238913
[] Nikon Labophot 238917
[] Nikon Labophot 239079

26. Analysis Methodology: PCM - NIOSH 7400A
TEM - AHERA

27. Result To: Red Bernhardt 28. Comments: Beeper/Phone #s

29. Project Manager: Red Bernhardt 30. Result To: Red Bernhardt

31. Project Name: Buene 31 NY 201 32. Project # 105 33. Project Monitor: NYC Health Dept

34. Project Location: 105 Buene 31 NY 201 35. Project Date: 02/24/01

36. Project Time: 0800 37. Project Time: 0800 38. Project Time: 0800

39. Project Time: 0800 40. Project Time: 0800 41. Project Time: 0800

42. Project Time: 0800 43. Project Time: 0800 44. Project Time: 0800

45. Project Time: 0800 46. Project Time: 0800 47. Project Time: 0800

48. Project Time: 0800 49. Project Time: 0800 50. Project Time: 0800

51. Project Time: 0800 52. Project Time: 0800 53. Project Time: 0800

54. Project Time: 0800 55. Project Time: 0800 56. Project Time: 0800

57. Project Time: 0800 58. Project Time: 0800 59. Project Time: 0800

60. Project Time: 0800 61. Project Time: 0800 62. Project Time: 0800

63. Project Time: 0800 64. Project Time: 0800 65. Project Time: 0800

66. Project Time: 0800 67. Project Time: 0800 68. Project Time: 0800

69. Project Time: 0800 70. Project Time: 0800 71. Project Time: 0800

72. Project Time: 0800 73. Project Time: 0800 74. Project Time: 0800

75. Project Time: 0800 76. Project Time: 0800 77. Project Time: 0800

78. Project Time: 0800 79. Project Time: 0800 80. Project Time: 0800

81. Project Time: 0800 82. Project Time: 0800 83. Project Time: 0800

84. Project Time: 0800 85. Project Time: 0800 86. Project Time: 0800

87. Project Time: 0800 88. Project Time: 0800 89. Project Time: 0800

90. Project Time: 0800 91. Project Time: 0800 92. Project Time: 0800

93. Project Time: 0800 94. Project Time: 0800 95. Project Time: 0800

96. Project Time: 0800 97. Project Time: 0800 98. Project Time: 0800

99. Project Time: 0800 100. Project Time: 0800 101. Project Time: 0800

102. Project Time: 0800 103. Project Time: 0800 104. Project Time: 0800

105. Project Time: 0800 106. Project Time: 0800 107. Project Time: 0800

108. Project Time: 0800 109. Project Time: 0800 110. Project Time: 0800

111. Project Time: 0800 112. Project Time: 0800 113. Project Time: 0800

114. Project Time: 0800 115. Project Time: 0800 116. Project Time: 0800

117. Project Time: 0800 118. Project Time: 0800 119. Project Time: 0800

120. Project Time: 0800 121. Project Time: 0800 122. Project Time: 0800

123. Project Time: 0800 124. Project Time: 0800 125. Project Time: 0800

126. Project Time: 0800 127. Project Time: 0800 128. Project Time: 0800

129. Project Time: 0800 130. Project Time: 0800 131. Project Time: 0800

132. Project Time: 0800 133. Project Time: 0800 134. Project Time: 0800

135. Project Time: 0800 136. Project Time: 0800 137. Project Time: 0800

138. Project Time: 0800 139. Project Time: 0800 140. Project Time: 0800

141. Project Time: 0800 142. Project Time: 0800 143. Project Time: 0800

144. Project Time: 0800 145. Project Time: 0800 146. Project Time: 0800

147. Project Time: 0800 148. Project Time: 0800 149. Project Time: 0800

150. Project Time: 0800 151. Project Time: 0800 152. Project Time: 0800

153. Project Time: 0800 154. Project Time: 0800 155. Project Time: 0800

156. Project Time: 0800 157. Project Time: 0800 158. Project Time: 0800

159. Project Time: 0800 160. Project Time: 0800 161. Project Time: 0800

162. Project Time: 0800 163. Project Time: 0800 164. Project Time: 0800

165. Project Time: 0800 166. Project Time: 0800 167. Project Time: 0800

168. Project Time: 0800 169. Project Time: 0800 170. Project Time: 0800

171. Project Time: 0800 172. Project Time: 0800 173. Project Time: 0800

174. Project Time: 0800 175. Project Time: 0800 176. Project Time: 0800

177. Project Time: 0800 178. Project Time: 0800 179. Project Time: 0800

180. Project Time: 0800 181. Project Time: 0800 182. Project Time: 0800

183. Project Time: 0800 184. Project Time: 0800 185. Project Time: 0800

186. Project Time: 0800 187. Project Time: 0800 188. Project Time: 0800

189. Project Time: 0800 190. Project Time: 0800 191. Project Time: 0800

192. Project Time: 0800 193. Project Time: 0800 194. Project Time: 0800

195. Project Time: 0800 196. Project Time: 0800 197. Project Time: 0800

198. Project Time: 0800 199. Project Time: 0800 200. Project Time: 0800



AIR MONITORING DATA

AND

CHAIN OF CUSTODY FORM

PROJECT INFORMATION

1. Client: Tibbee 2. Project Name: 105 Duane St NY NY 3. Project # 48 4. Project Monitor: Augustis Gustaf 4c. Rolameter Number: SD-139

Date: 02/24/01 6. Abatement Location: 105 Duane St NY NY 7. PCM (0.8 micron MCE) ✓ 8. TEM (0.45 micron MCE) ✓ 9. Type: 1 Environmental 2 Ambient 3 Other

10. Project Address: 105 Duane St NY NY 11. Project Task # 100266916 12. Abatement Location: 105 Duane St NY NY 13. Project Task # 100266916 14. Air Sampler: 100266916 15. Abatement Location: 105 Duane St NY NY 16. Project Task # 100266916 17. Abatement Location: 105 Duane St NY NY 18. Project Task # 100266916 19. Abatement Location: 105 Duane St NY NY 20. Project Task # 100266916 21. Abatement Location: 105 Duane St NY NY 22. Project Task # 100266916 23. Abatement Location: 105 Duane St NY NY 24. Project Task # 100266916 25. Abatement Location: 105 Duane St NY NY 26. Project Task # 100266916 27. Abatement Location: 105 Duane St NY NY 28. Project Task # 100266916 29. Abatement Location: 105 Duane St NY NY 30. Project Task # 100266916 31. Abatement Location: 105 Duane St NY NY 32. Project Task # 100266916 33. Abatement Location: 105 Duane St NY NY 34. Project Task # 100266916 35. Abatement Location: 105 Duane St NY NY 36. Project Task # 100266916 37. Abatement Location: 105 Duane St NY NY 38. Project Task # 100266916 39. Abatement Location: 105 Duane St NY NY 40. Project Task # 100266916 41. Abatement Location: 105 Duane St NY NY 42. Project Task # 100266916 43. Abatement Location: 105 Duane St NY NY 44. Project Task # 100266916 45. Abatement Location: 105 Duane St NY NY 46. Project Task # 100266916 47. Abatement Location: 105 Duane St NY NY 48. Project Task # 100266916 49. Abatement Location: 105 Duane St NY NY 50. Project Task # 100266916 51. Abatement Location: 105 Duane St NY NY 52. Project Task # 100266916 53. Abatement Location: 105 Duane St NY NY 54. Project Task # 100266916 55. Abatement Location: 105 Duane St NY NY 56. Project Task # 100266916 57. Abatement Location: 105 Duane St NY NY 58. Project Task # 100266916 59. Abatement Location: 105 Duane St NY NY 60. Project Task # 100266916 61. Abatement Location: 105 Duane St NY NY 62. Project Task # 100266916 63. Abatement Location: 105 Duane St NY NY 64. Project Task # 100266916 65. Abatement Location: 105 Duane St NY NY 66. Project Task # 100266916 67. Abatement Location: 105 Duane St NY NY 68. Project Task # 100266916 69. Abatement Location: 105 Duane St NY NY 70. Project Task # 100266916 71. Abatement Location: 105 Duane St NY NY 72. Project Task # 100266916 73. Abatement Location: 105 Duane St NY NY 74. Project Task # 100266916 75. Abatement Location: 105 Duane St NY NY 76. Project Task # 100266916 77. Abatement Location: 105 Duane St NY NY 78. Project Task # 100266916 79. Abatement Location: 105 Duane St NY NY 80. Project Task # 100266916 81. Abatement Location: 105 Duane St NY NY 82. Project Task # 100266916 83. Abatement Location: 105 Duane St NY NY 84. Project Task # 100266916 85. Abatement Location: 105 Duane St NY NY 86. Project Task # 100266916 87. Abatement Location: 105 Duane St NY NY 88. Project Task # 100266916 89. Abatement Location: 105 Duane St NY NY 90. Project Task # 100266916 91. Abatement Location: 105 Duane St NY NY 92. Project Task # 100266916 93. Abatement Location: 105 Duane St NY NY 94. Project Task # 100266916 95. Abatement Location: 105 Duane St NY NY 96. Project Task # 100266916 97. Abatement Location: 105 Duane St NY NY 98. Project Task # 100266916 99. Abatement Location: 105 Duane St NY NY 100. Project Task # 100266916

DAILY AIR SAMPLE RECORD

Sample I.D. Number	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. IWA	12b. OWA	13a. Start	13b. End	14a. Start	14b. End			
11-27	39	✓		2015	2255	10	10	130		
11-16	40	✓		2010	2220	10	10	1300		
11-14	41	✓		2015	2225	10	10	1300		
11-12	42	✓		2010	2230	10	10	1300		
11-24	43	✓		2030	2240	10	10	1300		
11-25	44	✓		2035	2245	10	10	1300		
11-26	45	✓		2040	2250	10	10	1300		

CHAIN OF CUSTODY

Relinquished By: Red Bernhardt 19. Received By: Ngosch 20. Date: 02/24/01 21. Time: 0800

ATC Project Manager: Red Bernhardt 27. Result To: Red Bernhardt 28. Comments: Red Bernhardt

22. Lab Name: TEM 23. Date: 02/24/01 24. Time: 0800

25. Microscope Make/Serial #: 238913 238917 239079

Analysis Methodology: PCM - NIOSH 7400A TEM - AHERA

WHITE - File YELLOW - Client/Report

PINK - Lab

GOLDENROD - Field

NY 1 (1/01)



AIR MONITORING DATA AND CHAIN OF CUSTODY FORM

TURNAROUND TIME

☐ 2 hrs ☐ 6 hrs ☐ 48 hrs ☐ Standard

☐ 4 hrs ☐ 24 hrs ☐ 72 hrs ☐ Other _____

PROJECT INFORMATION									
1. Client:	2. Project Name		3. Project #	4. Project Monitor:	4c. Rotameter Number:		☐ 4 hrs ☐ 24 hrs ☐ 72 hrs ☐ Other		
5. Date:	6. Abatement Location:	7. ☐ PCM (0.8 micron MCE) Cassette/Filter Manufacture Lot #	8. ☒ TEM (0.45 micron MCE) Cassette/Filter Manufacture Lot #	9. Type: a. ☐ Background b. ☐ Pre-Abate	c. ☐ Abatement d. ☐ Post-Abate e. ☐ OSHA	f. ☐ Environmental g. ☐ Ambient h. ☐ Other			
	2a. Project Address	3a. Task #	4a. Air Sampler:						

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	12c. Sample Coordinates	13a. Start	13b. End	13c. Total	14a. Start	14b. End	14b. Avg			
	16			Field Blank									
	17			Field Blank									
1641	1	/		APV #	2210	2430	120	10	10	10	1200		
2099	"	/		APV #	2215	2435	120	10	10	10	1200		
2099	"	/		APV #	2220	2430	120	10	10	10	1200		
1099	11	/		APV #	2225	2435	120	10	10	10	1200		

CHAIN OF CUSTODY

18. Relinquished By:	19. Received By:	20. Date:	21. Time:
I. V. A.	M. Singh	10/20	0800
II			
III			

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

22. Lab Name:	23. Date:	24. Time:
a. Analyzed By:		
b. QC By:		
c. Lab Batch #:		
28. Comments:		

ATC ASSOCIATES INC. - TEM ANALYSIS

Lab Sample No. 62240
 Client Spl. No. 26
 Instrument I.D. EM 10 CRX
 Screen Magnification 16,400X
 Acc. Voltage 80 kV

LAB GROUP #: 5762 - 10/25/01

Filter Type MCE 25 mm

Filter Area 385 mm²

Grid I.D. 180, 5 AR

(GO) Area 0.01124 mm²

No. GO to be Analyzed 6

Operator RP

Disk No. _____

Comments _____

(4.721 Struct. Corspd. to 70 s/mm²)

Acc. Voltage 80 KV

GO.		Structure No.	Structure Type				Length		I.D. of Structure				N or ✓	EDS (Nonasb. Elements)
No.	Coord.		F	B	C	M	≥0.5 um < 5 um	≥ 5um	Chrys.	Amphibole	Nonasb.	Ambig./ND		
1	I2	NSO												
2	P2	II												
3	V2	II												
4	Q6	II												
5	J9	II												
6	M3	II												

Photo No. (from 1 in 5 asbestos-containing samples)

Identify all structures using EDS

Check diffraction for asbestos structures up to 70s/mm² (1st 4)

Store all unrepeat spectra

Struct. = > 0.5um & > 5:1 Aspect Ratio

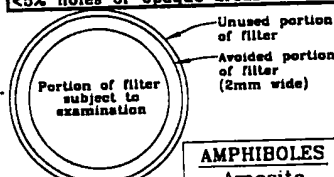
N= Not Observed (EDS spectrum or diffraction pattern)

✓ Positive diffraction pattern properties conforming to laboratory identification criteria observed.
 For chrysotile: 0.73nm spacing for (020) reflections, 0.53nm spacing for the layer line repeat, streaking of (110) and (130) reflections.
 For amphiboles: 0.53nm layer line repeat, and approx. 3.5 ratio of non-twinned layer line spot spacing to layer line repeat distance (0.53nm).

✓ EDS spectrum conforming to laboratory identification criteria observed.

F= Single Fiber (1-3 intersections = 1-3 fibers)
 B= Bundle (>3 fibers <1 fiber diameter apart)
 C= Cluster (>3 intersections)
 M= Matrix

Grid acceptance:
 <50% undissolved filter, overlapped or folded
 <10% particulate coverage >50% coverage
 at least 20 unfolded or overlapped grid squares
 <5% holes or opaque areas



25mm filter

Stopping Rules:
 >50 s/G.O. or in 1st 4 G.O.

AMPHIBOLES
 Amosite
 Crocidolite
 Anthophyllite
 Tremolite

Chrysotile
 Amphibole
 Ambiguous
 Non-asbestos
 Non-Identified

Totals

F	B	C	M	> 5um

ATC ASSOCIATES INC. - TEM ANALYSIS

LAB GROUP # 5762 - 10/25/01

Operator RP

Lab Sample No. 62252

Filter Type MCE 25 mm

Client Spl. No. 38

Filter Area 385 mm²

Instrument I.D. EM 10 CRX

Grid I.D. 189, 9I/AB

Screen Magnification 16,400X

(GO) Area 0.0124 mm²

Acc. Voltage 80 kV

No. GO to be Analyzed 6

Disk No. _____

Comments _____

(4.721 Struct. Corspd. to 70 s/mm²)

9I
10B

10B

Screen Magnification		Acc. Voltage		80 kV		No. GO to be Analyzed		v						
GO.		Structure No.	Structure Type				Length		I.D. of Structure				N or ✓	EDS (Nonasb. Elements)
No.	Coord.		F	B	C	M	≥0.5 um < 5 um	≥ 5um	Chrys.	Amphibole	Nonasb.	Ambig./ND		
1	NZ	NSD												
2	P6	"												
3	Q9	"												
4	XZ	"												
5	QZ	"												
6	JZ	"												

Photo No. (from 1 in 5 asbestos-containing samples)

Identify all structures using EDS

Check diffraction for asbestos structures up to 70s/mm² (1st 4)

Store all unreported spectra

Struct. = > 0.5um & > 5:1 Aspect Ratio

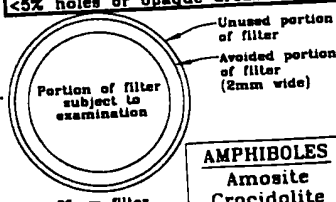
N= Not Observed (EDS spectrum or diffraction pattern)

✓ Positive diffraction pattern properties conforming to laboratory identification criteria observed.
For chrysotile: 0.73nm spacing for (020) reflections. 0.53nm spacing for the layer line repeat, streaking of (110) and (130) reflections.
For amphiboles: 0.53nm layer line repeat, and approx. 3.5 ratio of non-twinned layer line spot spacing to layer line repeat distance (0.53nm).

✓ EDS spectrum conforming to laboratory identification criteria observed.

F= Single Fiber (1-3 intersections = 1-3 fibers)
B= Bundle (>3 fibers <1 fiber diameter apart)

Grid acceptance:
<50% undissolved filter, overlapped or folded
<10% particulate coverage >50% coverage
at least 20 unfolded or overlapped grid squares
<5% holes or opaque areas



Staining Rules:

AMPHIBOLES
Amosite
Crocidolite
Anthophyllite

Chrysotile
Amphibole
Ambiguous
Non-asbestos

Totals

F	B	C	M	> 5um

H/A
12/25

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

October 25, 2001

ATC Associates Inc.
104 East 25th Street
New York, NY 10010
Attn: Mr. Fred Burkhardt

Re: Report of TEM Analysis

Dear Mr. Burkhardt:

Following are the results of transmission electron microscopy (TEM) analysis of air samples from our Group No. 5761:

Client: Related, Tribeca T.R.
Project Name: 105 Duane Street, NY, NY
Location: Various Sites
Samples received: 10/25/01

These results will confirm and document the data transmitted today to your 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 thirty-seven ambient samples submitted from the site. Nuclear TEM cassettes, Lot No. 98307617, 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

ATC Associates Inc.
104 East 25th Street
New York, NY 10010
Mr. Fred Burkhardt

DATE: 10/25/01

Project/Site Identification: Related, Tribeca T.R., 105 Duane St., NY, NY
Various Sites

CONCLUSION:

STATISTICAL SUMMARY

1) Inside Samples

TEM#	Project #	Volume (l)	<u>Asbestos Concentration</u>		
			S/mm ²	S/cc	ngm/m ³
5761- 62177	04	1300	0.0	0.0044 *	
5761- 62178	05	1300	0.0	0.0044 *	
5761- 62179	06	1300	0.0	0.0044 *	
5761- 62180	07	1300	0.0	0.0044 *	
5761- 62181	08	1300	0.0	0.0044 *	
5761- 62182	09	1300	0.0	0.0044 *	
5761- 62183	10	1300	0.0	0.0044 *	
5761- 62184	11	1300	0.0	0.0044 *	
5761- 62185	12	1300	0.0	0.0044 *	
5761- 62186	13	1300	0.0	0.0044 *	
5761- 62187	14	1300	0.0	0.0044 *	
5761- 62188	15	1300	0.0	0.0044 *	
5761- 62189	16	1300	0.0	0.0044 *	
5761- 62190	17	1300	0.0	0.0044 *	
5761- 62191	18	1300	0.0	0.0044 *	
5761- 62192	19	1300	0.0	0.0044 *	
5761- 62194	21	1300	0.0	0.0044 *	
5761- 62195	22	1300	0.0	0.0044 *	
5761- 62196	23	1300	0.0	0.0044 *	
5761- 62197	24	1300	0.0	0.0044 *	
5761- 62198	25	1300	0.0	0.0044 *	
5761- 62199	26	1300	0.0	0.0044 *	
5761- 62200	27	1300	0.0	0.0044 *	
5761- 62201	28	1300	0.0	0.0044 *	
5761- 62202	29	1300	0.0	0.0044 *	
5761- 62203	30	1300	0.0	0.0044 *	
5761- 62204	31	1300	0.0	0.0044 *	
5761- 62205	32	1300	0.0	0.0044 *	
5761- 62206	33	1300	0.0	0.0044 *	
5761- 62207	34	1300	0.0	0.0044 *	
5761- 62208	35	1300	0.0	0.0044 *	
5761- 62209	36	1300	0.0	0.0044 *	
5761- 62210	37	1300	0.0	0.0044 *	
5761- 62211	38	1300	0.0	0.0044 *	
5761- 62212	39	1300	0.0	0.0044 *	
5761- 62213	40	1300	0.0	0.0044 *	
5761- 62214	41	1300	0.0	0.0044 *	
Average=			0.0	0.0044	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 N/A

3) Blanks

Asbestos Concentration

TEM#	Project #	S/mm ²	S/cc	ngm/m ³
5761- 62174	01	- - - - -	Not Analyzed	- - - - -
5761- 62175	02	- - - - -	Not Analyzed	- - - - -
5761- 62176	03	- - - - -	Not Analyzed	- - - - -
5761- 62193	20	- - - - -	Not Analyzed	- - - - -

Average= N/A N/A N/A

4) Value of T - Statistic : N/A

* None detected; concentration equivalent to analytical sensitivity assigned.

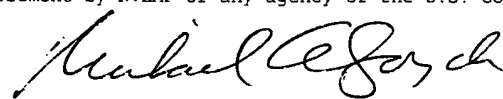
This test report relates only to the specific items cited in the analysis.

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

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

Approved N.Y. State ELAP #10879
ACCREDITED NVLAP Lab Code # 1187
Report Date: 10/25/01

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: Related, Tribeca T.R., 105 Duane St., NY, NY

TEM Sample No.: 5761 - 62177

Various Sites

Date Received: 10/25/01

Grid Openings Analyzed: 6

Project Sample No.: 04

Average Grid Opening: 106.00 um

Air Volume: 1300 liters

Total Area Analyzed: 0.0674 mm2

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

Analytical Sensitivity: 14.8 s/mm2

Effective Area: 385 mm2

0.0044 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.
Director of Electron Microscopy

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

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Approved N.Y. State ELAP #10879
ACCREDITED NVLAP Lab Code # 1187
Report Date: 10/25/01

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: Related, Tribeca T.R., 105 Duane St., NY, NY

TEM Sample No.: 5761 - 62178

Various Sites

Date Received: 10/25/01

Grid Openings Analyzed: 6

Project Sample No.: 05

Average Grid Opening: 106.00 um

Air Volume: 1300 liters

Total Area Analyzed: 0.0674 mm2

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

Analytical Sensitivity: 14.8 s/mm2

Effective Area: 385 mm2

0.0044 s/cc

FIBROUS PARTICULATES ANALYZED

Number Observed

CONCENTRATION

	Number Observed			Matrix Struct.	Total Struct.	Total Struct. >=5um	CONCENTRATION		
	Single Fibers	Bundles	Clusters				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:

Roman Peysakhov

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

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

Approved N.Y. State ELAP #10879
ACCREDITED NVLAP Lab Code # 1187
Report Date: 10/25/01

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: Related, Tribeca T.R., 105 Duane St., NY, NY

TEM Sample No.: 5761 - 62179

Various Sites

Date Received: 10/25/01

Grid Openings Analyzed: 6

Project Sample No.: 06

Average Grid Opening: 106.00 um

Air Volume: 1300 liters

Total Area Analyzed: 0.0674 mm2

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

Analytical Sensitivity: 14.8 s/mm2

Effective Area: 385 mm2

0.0044 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.
Director of Electron Microscopy

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

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

Approved N.Y. State ELAP #10879
ACCREDITED NVLAP Lab Code # 1187
Report Date: 10/25/01

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: Related, Tribeca T.R., 105 Duane St., NY, NY

TEM Sample No.: 5761 - 62180

Various Sites

Date Received: 10/25/01

Grid Openings Analyzed: 6

Project Sample No.: 07

Average Grid Opening: 106.00 um

Air Volume: 1300 liters

Total Area Analyzed: 0.0674 mm2

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

Analytical Sensitivity: 14.8 s/mm2

Effective Area: 385 mm2

0.0044 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.
Director of Electron Microscopy

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

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Approved N.Y. State ELAP #10879
ACCREDITED NVLAP Lab Code # 1187
Report Date: 10/25/01

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: Related, Tribeca T.R., 105 Duane St., NY, NY

TEM Sample No.: 5761 - 62181

Various Sites

Date Received: 10/25/01

Grid Openings Analyzed: 6

Project Sample No.: 08

Average Grid Opening: 106.00 um

Air Volume: 1300 liters

Total Area Analyzed: 0.0674 mm2

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

Analytical Sensitivity: 14.8 s/mm2

Effective Area: 385 mm2

0.0044 s/cc

FIBROUS PARTICULATES ANALYZED

Number Observed

CONCENTRATION

	Single			Matrix		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

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: 10/25/01

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: Related, Tribeca T.R., 105 Duane St., NY, NY

TEM Sample No.: 5761 - 62182

Various Sites

Date Received: 10/25/01

Grid Openings Analyzed: 6

Project Sample No.: 09

Average Grid Opening: 106.00 um

Air Volume: 1300 liters

Total Area Analyzed: 0.0674 mm2

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

Analytical Sensitivity: 14.8 s/mm2

Effective Area: 385 mm2

0.0044 s/cc

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

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

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

Approved N.Y. State ELAP #10879
ACCREDITED NVLAP Lab Code # 1187
Report Date: 10/25/01

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: Related, Tribeca T.R., 105 Duane St., NY, NY

TEM Sample No.: 5761 - 62183

Various Sites

Date Received: 10/25/01

Grid Openings Analyzed: 6

Project Sample No.: 10

Average Grid Opening: 106.00 um

Air Volume: 1300 liters

Total Area Analyzed: 0.0674 mm2

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

Analytical Sensitivity: 14.8 s/mm2
0.0044 s/cc

Effective Area: 385 mm2

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.
Director of Electron Microscopy

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

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Approved N.Y. State ELAP #10879
ACCREDITED NVLAP Lab Code # 1187
Report Date: 10/25/01

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: Related, Tribeca T.R., 105 Duane St., NY, NY

TEM Sample No.: 5761 - 62184

Various Sites

Date Received: 10/25/01

Grid Openings Analyzed: 6

Project Sample No.: 11

Average Grid Opening: 106.00 um

Air Volume: 1300 liters

Total Area Analyzed: 0.0674 mm2

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

Analytical Sensitivity: 14.8 s/mm2

Effective Area: 385 mm2

0.0044 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:

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: 10/25/01

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: Related, Tribeca T.R., 105 Duane St., NY, NY

TEM Sample No.: 5761 - 62185

Various Sites

Date Received: 10/25/01

Grid Openings Analyzed: 6

Project Sample No.: 12

Average Grid Opening: 106.00 um

Air Volume: 1300 liters

Total Area Analyzed: 0.0674 mm2

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

Analytical Sensitivity: 14.8 s/mm2

Effective Area: 385 mm2

0.0044 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

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Report Date: 10/25/01

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: Related, Tribeca T.R., 105 Duane St., NY, NY

TEM Sample No.: 5761 - 62186

Various Sites

Date Received: 10/25/01

Grid Openings Analyzed: 6

Project Sample No.: 13

Average Grid Opening: 106.00 um

Air Volume: 1300 liters

Total Area Analyzed: 0.0674 mm2

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

Analytical Sensitivity: 14.8 s/mm2

Effective Area: 385 mm2

0.0044 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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Report Date: 10/25/01

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: Related, Tribeca T.R., 105 Duane St., NY, NY

TEM Sample No.: 5761 - 62187

Various Sites

Date Received: 10/25/01

Grid Openings Analyzed: 6

Project Sample No.: 14

Average Grid Opening: 106.00 um

Air Volume: 1300 liters

Total Area Analyzed: 0.0674 mm2

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

Analytical Sensitivity: 14.8 g/mm2

Effective Area: 385 mm2

0.0044 g/cc

FIBROUS PARTICULATES ANALYZED

Number Observed

CONCENTRATION

	Number Observed			Total			Filter		Air
	Single Fibers	Bundles	Clusters	Matrix Struct.	Total 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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Report Date: 10/25/01

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: Related, Tribeca T.R., 105 Duane St., NY, NY

TEM Sample No.: 5761 - 62188

Various Sites

Date Received: 10/25/01

Grid Openings Analyzed: 6

Project Sample No.: 15

Average Grid Opening: 106.00 um

Air Volume: 1300 liters

Total Area Analyzed: 0.0674 mm2

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

Analytical Sensitivity: 14.8 s/mm2

Effective Area: 385 mm2

0.0044 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:

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Report Date: 10/25/01

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: Related, Tribeca T.R., 105 Duane St., NY, NY

TEM Sample No.: 5761 - 62189

Various Sites

Date Received: 10/25/01

Grid Openings Analyzed: 6

Project Sample No.: 16

Average Grid Opening: 106.00 um

Air Volume: 1300 liters

Total Area Analyzed: 0.0674 mm2

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

Analytical Sensitivity: 14.8 s/mm2

Effective Area: 385 mm2

0.0044 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:

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ACCREDITED NVLAP Lab Code # 1187
Report Date: 10/25/01

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: Related, Tribeca T.R., 105 Duane St., NY, NY

TEM Sample No.: 5761 - 62190

Various Sites

Date Received: 10/25/01

Grid Openings Analyzed: 6

Project Sample No.: 17

Average Grid Opening: 106.00 um

Air Volume: 1300 liters

Total Area Analyzed: 0.0674 mm2

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

Analytical Sensitivity: 14.8 s/mm2

Effective Area: 385 mm2

0.0044 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:

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ACCREDITED NVLAP Lab Code # 1187
Report Date: 10/25/01

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: Related Tribeca T.R., 105 Duane St., NY, NY

TEM Sample No.: 5761 - 62191

Various Sites

Date Received: 10/25/01

Grid Openings Analyzed: 6

Project Sample No.: 18

Average Grid Opening: 106.00 um

Air Volume: 1300 liters

Total Area Analyzed: 0.0674 mm2

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

Analytical Sensitivity: 14.8 s/mm2

Effective Area: 385 mm2

0.0044 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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Report Date: 10/25/01

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: Related, Tribeca T.R., 105 Duane St., NY, NY

TEM Sample No.: 5761 - 62192

Various Sites

Date Received: 10/25/01

Grid Openings Analyzed: 6

Project Sample No.: 19

Average Grid Opening: 106.00 um

Air Volume: 1300 liters

Total Area Analyzed: 0.0674 mm2

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

Analytical Sensitivity: 14.8 s/mm2

Effective Area: 385 mm2

0.0044 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:

Marek Peysakhov

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Director of Electron Microscopy

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ACCREDITED NVLAP Lab Code # 1187
Report Date: 10/25/01

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: Related, Tribeca T.R., 105 Duane St., NY, NY

TEM Sample No.: 5761 - 62194

Various Sites

Date Received: 10/25/01

Grid Openings Analyzed: 6

Project Sample No.: 21

Average Grid Opening: 106.00 um

Air Volume: 1300 liters

Total Area Analyzed: 0.0674 mm2

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

Analytical Sensitivity: 14.8 s/mm2

Effective Area: 385 mm2

0.0044 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:

Marek Peysakhov

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Report Date: 10/25/01

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: Related, Tribeca T.R., 105 Duane St., NY, NY

TEM Sample No.: 5761 - 62195

Various Sites

Date Received: 10/25/01

Grid Openings Analyzed: 6

Project Sample No.: 22

Average Grid Opening: 106.00 um

Air Volume: 1300 liters

Total Area Analyzed: 0.0674 mm2

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

Analytical Sensitivity: 14.8 s/mm2

Effective Area: 385 mm2

0.0044 s/cc

FIBROUS PARTICULATES ANALYZED

Number Observed

CONCENTRATION

	<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.</u>	<u>Struct.</u>	<u>>=Sum</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:

Marek Peysakhov

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Director of Electron Microscopy

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Report Date: 10/25/01

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: Related, Tribeca T.R., 105 Duane St., NY, NY
Various Sites

TEM Sample No.: 5761 - 62196

Date Received: 10/25/01

Grid Openings Analyzed: 6

Project Sample No.: 23

Average Grid Opening: 106.00 um

Air Volume: 1300 liters

Total Area Analyzed: 0.0674 mm2

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

Analytical Sensitivity: 14.8 s/mm2

Effective Area: 385 mm2

0.0044 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:

Marek Peysakhov

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Director of Electron Microscopy

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Approved N.Y. State ELAP #10879
ACCREDITED NVLAP Lab Code # 1187
Report Date: 10/25/01

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: Related, Tribeca T.R., 105 Duane St., NY, NY

TEM Sample No.: 5761 - 62197

Various Sites

Date Received: 10/25/01

Grid Openings Analyzed: 6

Project Sample No.: 24

Average Grid Opening: 106.00 um

Air Volume: 1300 liters

Total Area Analyzed: 0.0674 mm2

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

Analytical Sensitivity: 14.8 s/mm2

Effective Area: 385 mm2

0.0044 s/cc

FIBROUS PARTICULATES ANALYZED

Number Observed

CONCENTRATION

	Number Observed			Total			Filter		Air
	Single Fibers	Bundies	Clusters	Matrix Struct.	Total 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.

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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: Related, Tribeca T.R., 105 Duane St., NY, NY

TEM Sample No.: 5761 - 62198

Various Sites

Date Received: 10/25/01

Grid Openings Analyzed: 6

Project Sample No.: 25

Average Grid Opening: 106.00 um

Air Volume: 1300 liters

Total Area Analyzed: 0.0674 mm2

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

Analytical Sensitivity: 14.8 s/mm2

Effective Area: 385 mm2

0.0044 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.

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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: Related, Tribeca T.R., 105 Duane St., NY, NY

TEM Sample No.: 5761 - 62199

Various Sites

Date Received: 10/25/01

Grid Openings Analyzed: 6

Project Sample No.: 26

Average Grid Opening: 106.00 um

Air Volume: 1300 liters

Total Area Analyzed: 0.0674 mm2

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

Analytical Sensitivity: 14.8 s/mm2

Effective Area: 385 mm2

0.0044 s/cc

FIBROUS PARTICULATES ANALYZED

Number Observed

CONCENTRATION

	Single			Matrix		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.

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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: Related, Tribeca T.R., 105 Duane St., NY, NY

TEM Sample No.: 5761 - 62200

Various Sites

Date Received: 10/25/01

Grid Openings Analyzed: 6

Project Sample No.: 27

Average Grid Opening: 106.00 um

Air Volume: 1300 liters

Total Area Analyzed: 0.0674 mm2

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

Analytical Sensitivity: 14.8 s/mm2

Effective Area: 385 mm2

0.0044 s/cc

FIBROUS PARTICULATES ANALYZED

Number Observed

CONCENTRATION

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

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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: Related, Tribeca T.R., 105 Duane St., NY, NY

TEM Sample No.: 5761 - 62201

Various Sites

Date Received: 10/25/01

Grid Openings Analyzed: 6

Project Sample No.: 28

Average Grid Opening: 106.00 um

Air Volume: 1300 liters

Total Area Analyzed: 0.0674 mm2

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

Analytical Sensitivity: 14.8 s/mm2

Effective Area: 385 mm2

0.0044 s/cc

FIBROUS PARTICULATES ANALYZED

Number Observed

CONCENTRATION

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

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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: Related, Tribeca T.R., 105 Duane St., NY, NY

TEM Sample No.: 5761 - 62202

Various Sites

Date Received: 10/25/01

Grid Openings Analyzed: 6

Project Sample No.: 29

Average Grid Opening: 106.00 um

Air Volume: 1300 liters

Total Area Analyzed: 0.0674 mm2

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

Analytical Sensitivity: 14.8 s/mm2

Effective Area: 385 mm2

0.0044 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.

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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: Related, Tribeca T.R., 105 Duane St., NY, NY

TEM Sample No.: 5761 - 62203

Various Sites

Date Received: 10/25/01

Grid Openings Analyzed: 6

Project Sample No.: 30

Average Grid Opening: 106.00 um

Air Volume: 1300 liters

Total Area Analyzed: 0.0674 mm2

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

Analytical Sensitivity: 14.8 s/mm2

Effective Area: 385 mm2

0.0044 s/cc

FIBROUS PARTICULATES ANALYZED

Number Observed

CONCENTRATION

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

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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: Related, Tribeca T.R., 105 Duane St., NY, NY

TEM Sample No.: 5761 - 62204

Various Sites

Date Received: 10/25/01

Grid Openings Analyzed: 6

Project Sample No.: 31

Average Grid Opening: 106.00 um

Air Volume: 1300 liters

Total Area Analyzed: 0.0674 mm2

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

Analytical Sensitivity: 14.8 s/mm2

Effective Area: 385 mm2

0.0044 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:

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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: Related, Tribeca T.R., 105 Duane St., NY, NY

TEM Sample No.: 5761 - 62205

Various Sites

Date Received: 10/25/01

Grid Openings Analyzed: 6

Project Sample No.: 32

Average Grid Opening: 106.00 um

Air Volume: 1300 liters

Total Area Analyzed: 0.0674 mm2

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

Analytical Sensitivity: 14.8 s/mm2

Effective Area: 385 mm2

0.0044 s/cc

FIBROUS PARTICULATES ANALYZED

Number Observed

CONCENTRATION

	Number Observed			Total			Filter		Air
	Single Fibers	Bundles	Clusters	Matrix Struct.	Total 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: Related, Tribeca T.R., 105 Duane St., NY, NY

TEM Sample No.: 5761 - 62206

Various Sites

Date Received: 10/25/01

Grid Openings Analyzed: 6

Project Sample No.: 33

Average Grid Opening: 106.00 um

Air Volume: 1300 liters

Total Area Analyzed: 0.0674 mm2

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

Analytical Sensitivity: 14.8 s/mm2

Effective Area: 385 mm2

0.0044 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.

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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: Related, Tribeca T.R., 105 Duane St., NY, NY

TEM Sample No.: 5761 - 62207

Various Sites

Date Received: 10/25/01

Grid Openings Analyzed: 6

Project Sample No.: 34

Average Grid Opening: 106.00 um

Air Volume: 1300 liters

Total Area Analyzed: 0.0674 mm2

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

Analytical Sensitivity: 14.8 s/mm2

Effective Area: 385 mm2

0.0044 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: Related, Tribeca T.R., 105 Duane St., NY, NY

TEM Sample No.: 5761 - 62208

Various Sites

Date Received: 10/25/01

Grid Openings Analyzed: 6

Project Sample No.: 35

Average Grid Opening: 106.00 um

Air Volume: 1300 liters

Total Area Analyzed: 0.0674 mm2

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

Analytical Sensitivity: 14.8 s/mm2

Effective Area: 385 mm2

0.0044 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:

Marek Peysakhov

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

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

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

Approved N.Y. State ELAP #10879
ACCREDITED NVLAP Lab Code # 1187
Report Date: 10/25/01

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: Related, Tribeca T.R., 105 Duane St., NY, NY

TEM Sample No.: 5761 - 62209

Various Sites

Date Received: 10/25/01

Grid Openings Analyzed: 6

Project Sample No.: 36

Average Grid Opening: 106.00 um

Air Volume: 1300 liters

Total Area Analyzed: 0.0674 mm2

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

Analytical Sensitivity: 14.8 s/mm2

Effective Area: 385 mm2

0.0044 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:

Marek 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: Related, Tribeca T.R., 105 Duane St., NY, NY

TEM Sample No.: 5761 - 62210

Various Sites

Date Received: 10/25/01

Grid Openings Analyzed: 6

Project Sample No.: 37

Average Grid Opening: 106.00 um

Air Volume: 1300 liters

Total Area Analyzed: 0.0674 mm2

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

Analytical Sensitivity: 14.8 s/mm2

Effective Area: 385 mm2

0.0044 s/cc

FIBROUS PARTICULATES ANALYZED

Number Observed

CONCENTRATION

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

Marek Peysakhov

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

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Report Date: 10/25/01

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: Related, Tribeca T.R., 105 Duane St., NY, NY

TEM Sample No.: 5761 - 62211

Various Sites

Date Received: 10/25/01

Grid Openings Analyzed: 6

Project Sample No.: 38

Average Grid Opening: 106.00 um

Air Volume: 1300 liters

Total Area Analyzed: 0.0674 mm2

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

Analytical Sensitivity: 14.8 s/mm2

Effective Area: 385 mm2

0.0044 s/cc

FIBROUS PARTICULATES ANALYZED

	<u>Number Observed</u>						<u>CONCENTRATION</u>		
	<u>Single</u>			<u>Matrix</u>		<u>Total</u>	<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:

Marek Peysakhov

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

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ACCREDITED NVLAP Lab Code # 1187
Report Date: 10/25/01

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: Related, Tribeca T.R., 105 Duane St., NY, NY

TEM Sample No.: 5761 - 62212

Various Sites

Date Received: 10/25/01

Grid Openings Analyzed: 6

Project Sample No.: 39

Average Grid Opening: 106.00 um

Air Volume: 1300 liters

Total Area Analyzed: 0.0674 mm2

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

Analytical Sensitivity: 14.8 s/mm2

Effective Area: 385 mm2

0.0044 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:

Marek 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: 10/25/01

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: Related, Tribeca T.R., 105 Duane St., NY, NY

TEM Sample No.: 5761 - 62213

Various Sites

Date Received: 10/25/01

Grid Openings Analyzed: 6

Project Sample No.: 40

Average Grid Opening: 106.00 um

Air Volume: 1300 liters

Total Area Analyzed: 0.0674 mm2

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

Analytical Sensitivity: 14.8 s/mm2

Effective Area: 385 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>
	<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:

Marek 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: 10/25/01

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: Related, Tribeca T.R., 105 Duane St., NY, NY
Various Sites

TEM Sample No.: 5761 - 62214

Date Received: 10/25/01

Grid Openings Analyzed: 6

Project Sample No.: 41

Average Grid Opening: 106.00 um

Air Volume: 1300 liters

Total Area Analyzed: 0.0674 mm2

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

Analytical Sensitivity: 14.8 s/mm2

Effective Area: 385 mm2

0.0044 s/cc

FIBROUS PARTICULATES ANALYZED

Number Observed

CONCENTRATION

	Single			Matrix	Total	Total	Filter		Air
	Fibers	Bundles	Clusters		Struct.	Struct. >=5um	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:

Marek Peysakhov

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



AIR MONITORING DATA

Page 1 of 7

TURNAROUND TIME

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

PROJECT INFORMATION

CHAIN OF CUSTODY FORM AND

5761 37/41 7.8. Co 1704-600114

1. Client: <u>Reliaform</u>	2. Project Name: <u>Reliaform 7.8.</u>	3. Project #	4. Project Monitor: <u>0.500000</u>	4c. Rotameter Number: <u>419280</u>
5. Date: <u>10/24/01</u>	6. Abatement Location:	7. ☐ PCM (0.8 micron MCE) Cassette/Filter Manufacture Lot #	8. ☒ TEM (0.45 micron MCE) Cassette/Filter Manufacture Lot # <u>983207617</u>	9. Type: a. ☐ Background b. ☐ Pre-Abate c. ☐ Abatement d. ☐ Post-Abate e. ☐ OSHA f. ☐ Environmental g. ☒ Ambient h. ☐ Other
2a. Project Address: <u>105 Duane St</u>	3a. Task #	4a. Air Sampler:		

DAILY AIR SAMPLE RECORD

10. Sample ID Number	11. Pump Number	12. Sample Location 12a. WVA 12b. OWA	12c. Sample Coordinates	13. Time (24 hrs clock) 13a. Start 13b. End 13c. Total	14. Flow Rate (L/min.) 14a. Start 14b. End 14c. Avg	15. Total Air Vol. (liters)	16. # Fibers/Fields Minus Blank	17. Fiber Conc. F/CC
01,02			Field Blank <u>Open 300</u>					
02			Field Blank <u>Open 300</u>					
04		X	APT # <u>449H</u>	10:45/10:55/130	10.0/10.0/10	1300		
05		X	APT # <u>45B</u>	10:50/10:00/130	10.0/10.0/10	1300		
06		X	APT # <u>45G</u>	10:55/13:05/130	10.0/10.0/10	1300		
07		X	APT # <u>38A</u>	11:05/13:15/130	10.0/10.0/10	1300		
08		X	APT # <u>37D</u>	11:09/13:19/130	10.0/10.0/10	1300		
09		X	APT # <u>36B</u>	11:15/13:28/130	10.0/10.0/10	1300		

CHAIN OF CUSTODY

18. Relinquished By: <u>F. Burkhardt</u>	19. Received By: <u>Magye</u>	20. Date: <u>10/13</u>	21. Time: <u>0800</u>
II			
III			

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

22. Lab Name:	23. Date:	24. Time:	25. Microscope Make/Serial #:
a. Analyzed By:			☐ Nikon Labophot 238913
b. QC By:			☐ Nikon Labophot 238917
c. Lab Batch #:			☐ Nikon Labophot 239079

26. ATC Project Manager:

27. Result To: <u>F. Burkhardt</u>	28. Comments:
Beeper/Phone #s:	

WHITE - File

YELLOW - Client/Report

PINK - Lab

GOLDENROD - Field

NY-1 (1/01)



AIR MONITORING DATA AND CHAIN OF CUSTODY FORM

of

of

TURNAROUND TIME

☐ 2 hrs ☐ 6 hrs ☐ 48 hrs ☐ Standard

☐ 4 hrs ☐ 24 hrs ☐ 72 hrs ☐ Other —

PROJECT INFORMATION				4c. Rotameter Number:
Client:	2. Project Name			4d. 417 311
Date:	3. Project #			
6. Abatement Location:	2a. Project Address	3a. Task #		4a. Air Sampler:
	7. ☐ PCM (0.8 micron MCE) Cassette Filter Manufacture Lot #	8. ☒ ITEM (0.45 micron MCE) Cassette Filter Manufacture Lot #		
10.24.01	9. Type:		4b. Pre-Abate	
	a. ☐ Background b. ☐ Post-Abate		c. ☐ Abatement d. ☐ Post-Abate e. ☐ OSHA	
		f. ☐ Environmental g. ☒ Ambient h. ☐ Other		

DAILY AIR SAMPLE RECORD

DAILY AIR SAMPLE RECORD													
10. Sample I.D. Number	11. Pump Number	12. Sample Location		12c. Sample Coordinates	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. IWA	12b. OWA		13a. Start	13b. End	13c. Total	14a. Start	14b. End	14d. Avg			
				Field Blank									
				Field Blank									
				Field Blank									
10				APT # 36 E	11.18	13.38	130	100	100	10	1300		
11				APT # 25 C	11.21	13.31	130	100	100	10	1300		
12				Foot # 49 ^{hallway}	13.01	15.10	120	100	100	10	1200		
13				Foot # 45 ^{hallway}	13.02	15.12	120	100	100	10	1200		
14				Foot # 44 ^{hallway}	13.04	15.14	120	100	100	10	1200		
15				Foot # 38 ^{hallway}	13.17	15.27	130	100	100	10	1300		

ATC E1 AP # 10879 ATC NV1 AP # 1187

CHAIN OF CUSTODY

CHAIN OF CUSTODY			
18. Relinquished By:	19. Received By:	20. Date:	21. Time:
I <i>Scott M. Bell</i>	<i>Mr. Syde</i>	<i>10/15</i>	<i>0800</i>
II			
III			

LAB INFORMATION

22. Lab Name:	23. Date:	24. Time:
a. Analyzed By:		
b. QC By:		
c. Lab Batch #:		

25. Microscope Make/Serial #:

☐ Nikon Labophot 238913

☐ Nikon Labophot 238917

☐ Nikon Labophot 239079

26. ATC Project Manager:	27. Result To:
26.11.11	1-13m 11m

28. Comments:

PCM - NIOSH 7400A
TEM - AHERA



AIR MONITORING DATA AND CHAIN OF CUSTODY FORM

Page 2 of 7

TURNAROUND TIME

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

5761

PROJECT INFORMATION		1. Client: <u>Robeco</u>		2. Project Name: <u>Tikveea T.R.</u>		3. Project #	
5. Date: <u>10/24/11</u>		6. Abatement Location:		7. ☐ PCM (0.8 micron MCE) Cassette/Filter Manufacture _____ Lot # _____		8. ☒ TEM (0.45 micron MCE) Cassette/Filter Manufacture _____ Lot # <u>285507617</u>	
2a. Project Address: <u>105 Duane St</u>		2b. Project Address: _____		3a. Task #		4a. Air Sampler: <u>8841 Solway</u>	
9. Type:		a. ☐ Background		c. ☐ Abatement		1. ☐ Environmental	
b. ☐ Pre-Abate		d. ☐ Post-Abate		e. ☐ OSHA		g. ☒ Ambient	
						h. ☐ Other	
4c. Rotameter Number: <u>HP 80</u>							

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/Felts Minus Blank	17. Fiber Conc. F/C
		12a. IWA	12b. OWA	13a. Start	13b. End	13c. Total	14a. Start	14b. End	14c. Avg			
20				Field Blank								
				Field Blank								
11				Exhaust # 37		3:19	15:29	14:10	10.0	10	1300	
				halloway								
17				Exhaust # 36		13:24	15:33	14:10	10.0	10	1300	
				halloway								
18				Exhaust # 35		13:33	15:43	14:10	10.0	10	1300	
				halloway								
19				Exhaust # 25		13:36	15:46	14:10	10.0	10	1300	
				halloway								
21				AP4 # 22E		14:15	16:25	14:10	10.0	10	1300	
22				AP1 # 25D		14:19	16:28	14:10	10.0	10	1300	

CHAIN OF CUSTODY

18. Relinquished By: _____	19. Received By: _____
20. Date: <u>10/15</u>	21. Time: <u>0800</u>

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

22. Lab Name: _____		23. Date: _____		24. Time: _____	
a. Analyzed By: _____		b. QC By: _____		c. Lab Batch #: _____	

25. Microscope Make/Serial #:

☐ Nikon Labophot 238913

☐ Nikon Labophot 238917

☐ Nikon Labophot 239079

Analysis Methodology

PCM - NIOSH 7400A

26. ATC Project Manager: _____

27. Result To: _____

F. Buehler

28. Comments: _____



AIR MONITORING DATA AND CHAIN OF CUSTODY FORM

Page 4 of 7

TURNAROUND TIME

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

PROJECT INFORMATION

Client: Refined

2. Project Name

Trilbera TR

3. Project #

4. Project Monitor

Shirley Soler4c. Rotameter Number: 179800

2a. Project Address

105 Duane St

3a. Task #

4a. Air Sampler:

Date: 10/16/07

6. Abatement Location:

7. ☐ PCM (0.8 micron MCE)
Cassette/Filter Manufacture _____
Lot # _____8. ☒ TEM (0.45 micron MCE)
Cassette/Filter Manufacture _____
Lot # 28307677

9. Type:

a. ☐ Background
b. ☐ Pre-Abatec. ☐ Abatement
d. ☐ Post-Abate
e. ☐ OSHA1. ☐ Environmental
g. ☒ Ambient
h. ☐ Other

DAILY AIR SAMPLE RECORD

10. Sample I.D. Number	11. Pump Number	12a. IWA	12b. OWA	12c. Sample Coordinates	13a. Start	13b. End	13c. Total	14a. Start	14b. End	14c. Avg	15. Total Air Vol (liters)	16. # Fibers/Fields Minus Blank	17. Fiber Conc. F/CC
				Field Blank									
				Field Blank									
23				Apt 26 E	14:25	16:35	130	10.0	10.0	10	1300		
24				Apt 29 E	14:30	16:40	130	10.0	10.0	10	1300		
25				Apt 38 H	14:35	16:45	130	10.0	10.0	10	1300		
26				Apt 45 E	14:35	16:45	130	10.0	10.0	10	1300		
27				Apt 49 D	14:43	16:53	130	10.0	10.0	10	1300		
28				Apt 49 F	14:48	16:58	130	10.0	10.0	10	1300		

CHAIN OF CUSTODY

18. Relinquished By:

19. Received By:

20. Date:

21. Time:

I. Relinquishedh. Seca10/150800

II

22. Lab Name:

23. Date:

24. Time:

25. Microscope Make/Serial #:

Analysis Methodology

26. ATC Project Manager:

27. Result To:

E. B. Wickham

28. Comments:

PCM - NIOSH 7400A
TEM - AHERA



AIR MONITORING DATA

AND

CHAIN OF CUSTODY FORM

 Page 5 of 5

TURNAROUND TIME

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

PROJECT INFORMATION

1. Client: <u>Reliant</u>	2. Project Name: <u>TRAC T.R.</u>	3. Project #	4. Project Monitor: <u>Soborog</u>	4c. Rotameter Number: <u>411280</u>
5. Date: <u>10/14/01</u>	6. Abatement Location:	7. ☐ PCM (0.8 micron MCE) Cassette Filter Manufacture Lot #	8. ☒ TEM (0.45 micron MCE) Cassette Filter Manufacture Lot # <u>98207617</u>	9. Type: a. ☐ Background b. ☐ Pre-Abate c. ☐ Abatement d. ☐ Post-Abate e. ☐ OSHA f. ☐ Environmental g. ☒ Ambient h. ☐ Other
2a. Project Address: <u>1059 Quance St</u>		3a. Task #	4a. Air Sampler:	

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. IWA	12b. OWA	12c. Sample Coordinates	13a. Start	13b. End	13c. Total	14a. Start	14b. End	14c. Avg				
				Field Blank										
				Field Blank										
29		X		Apt # PH-E	18:05	20:15	130	10.0	10.0	10	1300			
30		X		Floor Plate way	18:10	20:20	130	10.0	10.0	10	1300			
31		X		Apt # 42 D	18:14	20:24	130	10.0	10.0	10	1300			
32		X		Apt # 42 D	18:18	20:28	130	10.0	10.0	10	1300			
33		X		Apt # 42 D	18:18	20:29	130	10.0	10.0	10	1300			
34		X		Floor Plate way	18:20	20:30	130	10.0	10.0	10	1300			

CHAIN OF CUSTODY

18. Relinquished By: <u>I O 2310024</u>	19. Received By:	20. Date: <u>10/15/01</u>	21. Time: <u>0800</u>
II			
III			

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

22. Lab Name:	23. Date:	24. Time:
a. Analyzed By:		
b. QC By:		
c. Lab Batch #:		
25. Microscope Make/Serial #:		
☐ Nikon Labophot 238913 ☐ Nikon Labophot 238917 ☐ Nikon Labophot 239079		
26. ATC Project Manager: <u>I O 2310024</u>		
27. Result To: <u>F Penhatch</u>		
Beeper/Phone #s:		
28. Comments:		
Analysis Methodology: PCM - NIOSH 7400A TEM - AHERA		

WHITE - File

YELLOW - Client/Report

PINK - Lab

GOLDENROD - Field

NY 1 (1)



AIR MONITORING DATA

AND

CHAIN OF CUSTODY FORM

Page 6 of 7

TURNAROUND TIME

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

PROJECT INFORMATION

1. Client: <u>WATC Associates Inc.</u>	2. Project Name: <u>1st Floor L.R.</u>	3. Project #	4. Project Monitor: <u>WATC Associates Inc.</u>	4c. Rotameter Number: <u>111111</u>
5. Date: <u>10/10/01</u>	2a. Project Address: <u>105 Quince St</u>	3a. Task #	4a. Air Sampler:	
6. Abatement Location:	7. ☐ PCM (0.8 micron MCE) Cassette/Filter Manufacturer: <u>Lot #</u>	8. ☒ TEM (0.45 micron MCE) Cassette/Filter Manufacturer: <u>Lot #</u>	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. WVA	12b. OWA	12c. Sample Coordinates	13a. Start	13b. End	13c. Total	14a. Start	14b. End	14c. Avg			
35		X		Apth 24 G	18.23	20.33	150	10.0	11.0	10	1500		
36		X		1st floor 24 hallway	18.24	20.34	150	10.0	11.0	10	1500		
37		X		Apth #22 A	18.35	20.45	150	10.0	11.0	10	1500		
38		X		Apth #18 J	18.46	20.50	150	10.0	11.0	10	1500		
39		X		Apth #42 F	22.05	24.15	150	10.0	11.0	10	1500		
40		X		Apth #37 B	22.10	24.20	150	10.0	11.0	10	1500		

CHAIN OF CUSTODY

18. Relinquished By: <u>I. J. [Signature]</u>	19. Received By:	20. Date: <u>10/25</u>	21. Time: <u>0800</u>
II			
III			

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

22. Lab Name:	23. Date:	24. Time:	25. Microscope Make/Serial #:
a. Analyzed By:			☐ Nikon Labophot 238913
b. QC By:			☐ Nikon Labophot 238917
c. Lab Batch #:			☐ Nikon Labophot 239079

26. ATC Project Manager:

27. Result To: <u>5. [Signature]</u>	27. Result To: <u>5. [Signature]</u>
Beeper/Phone #s	

28. Comments:

28. Comments:	Analysis Methodology
	PCM - NIOSH 7400A
	TEM - AHERA

WHITE - File

YELLOW - Client/Report

PINK - Lab

GOLDENROD - Field

NY-1 (1/01)



H/A
11/22

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

October 26, 2001

ATC Associates Inc.
104 East 25th Street
New York, NY 10010
Attn: Mr. Fred Burkhardt

Re: Report of TEM Analysis

Dear Mr. Burkhardt:

Following are the results of transmission electron microscopy (TEM) analysis of air samples from our Group No. 5769:

Client: Related, Tribeca T.R.
Project Name: 105 Duane Street, NY, NY
Location: Various Sites
Samples received: 10/26/01

These results will confirm and document the data transmitted today to your 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 forty-three ambient samples submitted from the site. MMI TEM cassettes, Lot No. 00264916, 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 cursive script, appearing to read 'Michael A. Gorycki'.

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 # 10878
ACCREDITED NVLAP Lab Code # 1187

Summary of TEM Results

ATC Associates Inc.
104 East 25th Street
New York, NY 10010
Mr. Fred Burkhardt

DATE: 10/26/01

Project/Site Identification: Related, Tribeca T.R., 105 Duane St., NY, NY
Various Sites

CONCLUSION:

STATISTICAL SUMMARY

1) Inside Samples

TEM#	Project #	Volume(l)	Asbestos Concentration		
			S/mm ²	S/cc	ngm/m ³
5769- 62510	04	1300	0.0	0.0044 *	
5769- 62511	05	1300	0.0	0.0044 *	
5769- 62512	06	1300	0.0	0.0044 *	
5769- 62513	07	1300	0.0	0.0044 *	
5769- 62514	08	1300	0.0	0.0044 *	
5769- 62515	09	1300	0.0	0.0044 *	
5769- 62516	10	1300	0.0	0.0044 *	
5769- 62517	11	1300	0.0	0.0044 *	
5769- 62518	12	1300	0.0	0.0044 *	
5769- 62519	13	1300	0.0	0.0044 *	
5769- 62520	14	1300	0.0	0.0044 *	
5769- 62521	15	1300	0.0	0.0044 *	
5769- 62522	16	1300	0.0	0.0044 *	
5769- 62523	17	1300	0.0	0.0044 *	
5769- 62524	18	1300	0.0	0.0044 *	
5769- 62525	19	1300	0.0	0.0044 *	
5769- 62526	20	1300	0.0	0.0044 *	
5769- 62527	21	1300	0.0	0.0044 *	
5769- 62528	22	1300	0.0	0.0044 *	
5769- 62529	23	1300	0.0	0.0044 *	
5769- 62530	24	1300	0.0	0.0044 *	
5769- 62531	25	1300	0.0	0.0044 *	
5769- 62532	26	1300	0.0	0.0044 *	
5769- 62533	27	1300	0.0	0.0044 *	
5769- 62534	28	1300	0.0	0.0044 *	
5769- 62535	29	1300	0.0	0.0044 *	
5769- 62536	30	1300	0.0	0.0044 *	
5769- 62537	31	1300	0.0	0.0044 *	
5769- 62538	32	1300	0.0	0.0044 *	
5769- 62539	33	1300	0.0	0.0044 *	
5769- 62540	34	1300	0.0	0.0044 *	
5769- 62541	35	1300	0.0	0.0044 *	
5769- 62542	36	1300	0.0	0.0044 *	
5769- 62543	37	1300	0.0	0.0044 *	
5769- 62544	38	1300	0.0	0.0044 *	
5769- 62545	39	1300	0.0	0.0044 *	
5769- 62548	42	1300	0.0	0.0044 *	
5769- 62549	43	1300	0.0	0.0044 *	
5769- 62550	44	1300	0.0	0.0044 *	
5769- 62551	45	1300	0.0	0.0044 *	

5769- 62552	46	1300	0.0	0.0044 *	
5769- 62553	47	1300	0.0	0.0044 *	
5769- 62554	48	1300	0.0	0.0044 *	
Average=		0.0	0.0044	0	

2) Outside Samples

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

3) Blanks

		<u>Asbestos Concentration</u>			
TEM#	Project #	S/mm ²	S/cc	ngm/m ³	
5769- 62507	01	- - - - -	Not Analyzed	- - - - -	- - - - -
5769- 62508	02	- - - - -	Not Analyzed	- - - - -	- - - - -
5769- 62509	03	- - - - -	Not Analyzed	- - - - -	- - - - -
5769- 62546	40	- - - - -	Not Analyzed	- - - - -	- - - - -
5769- 62547	41	- - - - -	Not Analyzed	- - - - -	- - - - -
Average=		N/A	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.

MP
Analyzed by:
Marek Peysakhov

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

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

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

Approved N.Y. State ELAP #10879
ACCREDITED NVLAP Lab Code # 1187
Report Date: 10/26/01

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: Related, Tribeca T.R., 105 Duane St., NY, NY

TEM Sample No.: 5769 - 62510

Various Sites

Date Received: 10/26/01

Grid Openings Analyzed: 6

Project Sample No.: 04

Average Grid Opening: 106.00 um

Air Volume: 1300 liters

Total Area Analyzed: 0.0674 mm2

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

Analytical Sensitivity: 14.8 s/mm2

Effective Area: 385 mm2

0.0044 s/cc

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:

Marek Peysakhov

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

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

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

Approved N.Y. State ELAP #10879
ACCREDITED NVLAP Lab Code # 1187
Report Date: 10/26/01

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: Related, Tribeca T.R., 105 Duane St., NY, NY
Various Sites

TEM Sample No.: 5769 - 62511

Date Received: 10/26/01

Grid Openings Analyzed: 6

Project Sample No.: 05

Average Grid Opening: 106.00 um

Air Volume: 1300 liters

Total Area Analyzed: 0.0674 mm2

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

Analytical Sensitivity: 14.8 s/mm2
0.0044 s/cc

FIBROUS PARTICULATES ANALYZED

	<u>Number Observed</u>						<u>CONCENTRATION</u>			
						Total				
	Single			Matrix	Total	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:

Marek Peysakhov

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

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

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

Approved N.Y. State ELAP #10879
ACCREDITED NVLAP Lab Code # 1187
Report Date: 10/26/01

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: Related, Tribeca T.R., 105 Duane St., NY, NY

TEM Sample No.: 5769 - 62512

Various Sites

Date Received: 10/26/01

Grid Openings Analyzed: 6

Project Sample No.: 06

Average Grid Opening: 106.00 um

Air Volume: 1300 liters

Total Area Analyzed: 0.0674 mm2

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

Analytical Sensitivity: 14.8 s/mm2

Effective Area: 385 mm2

0.0044 s/cc

FIBROUS PARTICULATES ANALYZED

	<u>Number Observed</u>						<u>CONCENTRATION</u>			
				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:

Marek Peysakhov

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

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

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

Approved N.Y. State ELAP #10879
ACCREDITED NVLAP Lab Code # 1187
Report Date: 10/26/01

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: Related, Tribeca T.R., 105 Duane St., NY, NY
Various Sites

TEM Sample No.: 5769 - 62513

Date Received: 10/26/01

Grid Openings Analyzed: 6

Project Sample No.: 07

Average Grid Opening: 106.00 um

Air Volume: 1300 liters

Total Area Analyzed: 0.0674 mm2

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

Analytical Sensitivity: 14.8 s/mm2

Effective Area: 385 mm2

0.0044 s/cc

FIBROUS PARTICULATES ANALYZED

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

Marek Peysakhov

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

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

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

Approved N.Y. State ELAP #10879
ACCREDITED NVLAP Lab Code # 1187
Report Date: 10/26/01

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: Related, Tribeca T.R., 105 Duane St., NY, NY

TEM Sample No.: 5769 - 62514

Various Sites

Date Received: 10/26/01

Grid Openings Analyzed: 6

Project Sample No.: 08

Average Grid Opening: 106.00 um

Air Volume: 1300 liters

Total Area Analyzed: 0.0674 mm2

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

Analytical Sensitivity: 14.8 s/mm2

Effective Area: 385 mm2

0.0044 s/cc

FIBROUS PARTICULATES ANALYZED

Number Observed

CONCENTRATION

	Single			Matrix	Total.	Total Struct. ≥5um	Filter		Air
	Fibers	Bundles	Clusters		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:

Marek 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: 10/26/01

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: Related, Tribeca T.R., 105 Duane St., NY, NY

TEM Sample No.: 5769 - 62516

Various Sites

Date Received: 10/26/01

Grid Openings Analyzed: 6

Project Sample No.: 10

Average Grid Opening: 106.00 um

Air Volume: 1300 liters

Total Area Analyzed: 0.0674 mm2

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

Analytical Sensitivity: 14.8 s/mm2

Effective Area: 385 mm2

0.0044 s/cc

FIBROUS PARTICULATES ANALYZED

Number Observed

CONCENTRATION

	Single			Matrix	Total	Total	Filter		Air
	Fibers	Bundles	Clusters		Struct.	Struct.	Struct/mm2	Struct/cc	
				Struct.	Struct.	>=5um			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: 10/26/01

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: Related, Tribeca T.R., 105 Duane St., NY, NY

TEM Sample No.: 5769 - 62517

Various Sites

Date Received: 10/26/01

Grid Openings Analyzed: 6

Project Sample No.: 11

Average Grid Opening: 106.00 um

Air Volume: 1300 liters

Total Area Analyzed: 0.0674 mm2

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

Analytical Sensitivity: 14.8 s/mm2

Effective Area: 385 mm2

0.0044 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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Report Date: 10/26/01

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: Related, Tribeca T.R., 105 Duane St., NY, NY

TEM Sample No.: 5769 - 62513

Various Sites

Date Received: 10/26/01

Grid Openings Analyzed: 5

Project Sample No.: 12

Average Grid Opening: 106.00 um

Air Volume: 1300 liters

Total Area Analyzed: 0.0674 mm2

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

Analytical Sensitivity: 14.8 s/mm2

Effective Area: 385 mm2

0.0044 s/cc

FIBROUS PARTICULATES ANALYZED

Number Observed

CONCENTRATION

	Single			Matrix	Total.	Total	Filter		Air
	Fibers	Bundles	Clusters		Struct.	Struct. >=5um	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: 10/26/01

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: Related, Tribeca T.R., 105 Duane St., NY, NY

TEM Sample No.: 5769 - 62519

Various Sites

Date Received: 10/26/01

Grid Openings Analyzed: 6

Project Sample No.: 13

Average Grid Opening: 106.00 um

Air Volume: 1300 liters

Total Area Analyzed: 0.0674 mm2

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

Analytical Sensitivity: 14.8 s/mm2

Effective Area: 385 mm2

0.0044 s/cc

FIBROUS PARTICULATES ANALYZED

	<u>Number Observed</u>						<u>CONCENTRATION</u>			
				Matrix	Total	Total	Filter	Air		
	Single Fibers	Bundles	Clusters	Struct.	Struct.	Struct. >=Sum				
							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: 10/26/01

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: Related, Tribeca T.R., 105 Duane St., NY, NY

TEM Sample No.: 5769 - 62520

Various Sites

Date Received: 10/26/01

Grid Openings Analyzed: 6

Project Sample No.: 14

Average Grid Opening: 106.00 um

Air Volume: 1300 liters

Total Area Analyzed: 0.0674 mm2

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

Analytical Sensitivity: 14.8 s/mm2

Effective Area: 385 mm2

0.0044 s/cc

FIBROUS PARTICULATES ANALYZED

Number Observed

CONCENTRATION

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

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ACCREDITED NVLAP Lab Code # 1187
Report Date: 10/26/01

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: Related, Tribeca T.R., 105 Duane St., NY, NY

TEM Sample No.: 5769 - 62521

Various Sites

Date Received: 10/26/01

Grid Openings Analyzed: 6

Project Sample No.: 15

Average Grid Opening: 106.00 um

Air Volume: 1300 liters

Total Area Analyzed: 0.0674 mm2

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

Analytical Sensitivity: 14.8 s/mm2

Effective Area: 385 mm2

0.0044 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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ACCREDITED NVLAP Lab Code # 1187
Report Date: 10/26/01

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: Related, Tribeca T.R., 105 Duane St., NY, NY
Various Sites

TEM Sample No.: 5769 - 62522

Date Received: 10/26/01

Grid Openings Analyzed: 6

Project Sample No.: 16

Average Grid Opening: 106.00 um

Air Volume: 1300 liters

Total Area Analyzed: 0.0674 mm2

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

Analytical Sensitivity: 14.8 s/mm2

Effective Area: 385 mm2

0.0044 s/cc

FIBROUS PARTICULATES ANALYZED

Number Observed

CONCENTRATION

	Single			Matrix		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:

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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: Related, Tribeca T.R., 105 Duane St., NY, NY
Various Sites

TEM Sample No.: 5769 - 62523

Date Received: 10/26/01

Grid Openings Analyzed: 6

Project Sample No.: 17

Average Grid Opening: 106.00 um

Air Volume: 1300 liters

Total Area Analyzed: 0.0674 mm2

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

Analytical Sensitivity: 14.8 s/mm2

Effective Area: 385 mm2

0.0044 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>Filter</u>		<u>nm/m3</u>
	<u>Fibers</u>			<u>Struct.</u>	<u>Struct.</u>	<u>>=5um</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:

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Report Date: 10/26/01

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. 213, October 30, 1987)

Sample Identification

Analysis Parameters

Project/Site: Related, Tribeca T.R., 105 Duane St., NY, NY

TEM Sample No.: 5769 - 62524

Various Sites

Date Received: 10/26/01

Grid Openings Analyzed: 6

Project Sample No.: 18

Average Grid Opening: 106.00 um

Air Volume: 1300 liters

Total Area Analyzed: 0.0674 mm2

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

Analytical Sensitivity: 14.8 s/mm2

Effective Area: 385 mm2

0.0044 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
						Air Struct./cc
						ngm/m3
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: Related, Tribeca T.R., 105 Duane St., NY, NY

TEM Sample No.: 5769 - 62525

Various Sites

Date Received: 10/26/01

Grid Openings Analyzed: 6

Project Sample No.: 19

Average Grid Opening: 106.00 um

Air Volume: 1300 liters

Total Area Analyzed: 0.0674 mm2

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

Analytical Sensitivity: 14.8 s/mm2

Effective Area: 385 mm2

0.0044 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>Filter</u>		<u>Air</u>
	<u>Fibers</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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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: Related, Tribeca T.R., 105 Duane St., NY, NY
Various Sites

TEM Sample No.: 5769 - 62526

Date Received: 10/26/01

Grid Openings Analyzed: 6

Project Sample No.: 20

Average Grid Opening: 106.00 um

Air Volume: 1300 liters

Total Area Analyzed: 0.0674 mm2

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

Analytical Sensitivity: 14.8 s/mm2
0.0044 s/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.

Analyzed by:

Report Reviewed by:

Marek 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: 10/26/01

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: Related, Tribeca T.R., 105 Duane St., NY, NY

TEM Sample No.: 5769 - 62527

Various Sites

Date Received: 10/26/01

Grid Openings Analyzed: 6

Project Sample No.: 21

Average Grid Opening: 106.00 um

Air Volume: 1300 liters

Total Area Analyzed: 0.0674 mm2

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

Analytical Sensitivity: 14.8 s/mm2

Effective Area: 385 mm2

0.0044 s/cc

FIBROUS PARTICULATES ANALYZED

Number Observed

CONCENTRATION

	Single			Matrix	Total.	Total	Filter		
	Fibers	Bundles	Clusters		Struct.	Struct. >=5um	Struct./mm2	Struct./cc	Air
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: 10/26/01

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: Related, Tribeca T.R., 105 Duane St., NY, NY
Various Sites

TEM Sample No.: 5769 - 62528

Date Received: 10/26/01

Grid Openings Analyzed: 6

Project Sample No.: 22

Average Grid Opening: 106.00 um

Air Volume: 1300 liters

Total Area Analyzed: 0.0674 mm2

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

Analytical Sensitivity: 14.8 s/mm2

Effective Area: 385 mm2

0.0044 s/cc

FIBROUS PARTICULATES ANALYZED

Number Observed

CONCENTRATION

	Single			Matrix		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:

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Report Date: 10/26/01

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: Related, Tribeca T.R., 105 Duane St., NY, NY
Various Sites

TEM Sample No.: 5769 - 62529

Date Received: 10/26/01

Grid Openings Analyzed: 6

Project Sample No.: 23

Average Grid Opening: 106.00 um

Air Volume: 1300 liters

Total Area Analyzed: 0.0674 mm2

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

Analytical Sensitivity: 14.8 s/mm2

Effective Area: 385 mm2

0.0044 s/cc

FIBROUS PARTICULATES ANALYZED

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

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Report Date: 10/26/01

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: Related, Tribeca T.R., 105 Duane St., NY, NY

TEM Sample No.: 5769 - 62530

Various Sites

Date Received: 10/26/01

Grid Openings Analyzed: 6

Project Sample No.: 24

Average Grid Opening: 106.00 um

Air Volume: 1300 liters

Total Area Analyzed: 0.0674 mm2

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

Analytical Sensitivity: 14.8 s/mm2

Effective Area: 385 mm2

0.0044 s/cc

FIBROUS PARTICULATES ANALYZED

Number Observed

CONCENTRATION

	Single			Matrix	Total	Total Struct >=5um	Filter		Air
	Fibers	Bundles	Clusters		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:

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Report Date: 10/26/01

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: Related, Tribeca T.R., 105 Duane St., NY, NY

TEM Sample No.: 5769 - 62531

Various Sites

Date Received: 10/26/01

Grid Openings Analyzed: 6

Project Sample No.: 25

Average Grid Opening: 106.00 um

Air Volume: 1300 liters

Total Area Analyzed: 0.0674 mm2

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

Analytical Sensitivity: 14.8 s/mm2

Effective Area: 385 mm2

0.0044 s/cc

FIBROUS PARTICULATES ANALYZED

Number Observed

CONCENTRATION

	Single			Matrix		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:

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Report Date: 10/26/01

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: Related, Tribeca T.R., 105 Duane St., NY, NY

TEM Sample No.: 5769 - 62532

Various Sites

Date Received: 10/26/01

Grid Openings Analyzed: 6

Project Sample No.: 26

Average Grid Opening: 106.00 um

Air Volume: 1300 liters

Total Area Analyzed: 0.0674 mm2

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

Analytical Sensitivity: 14.8 s/mm2

Effective Area: 385 mm2

0.0044 s/cc

FIBROUS PARTICULATES ANALYZED

Number Observed

CONCENTRATION

	Single			Matrix	Total.	Total Struct. >=5um	Filter		Air
	Fibers	Bundles	Clusters		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:

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ACCREDITED NVLAP Lab Code # 1187
Report Date: 10/26/01

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: Related, Tribeca T.R., 105 Duane St., NY, NY

TEM Sample No.: 5769 - 62533

Various Sites

Date Received: 10/26/01

Grid Openings Analyzed: 6

Project Sample No.: 27

Average Grid Opening: 106.00 um

Air Volume: 1300 liters

Total Area Analyzed: 0.0674 mm2

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

Analytical Sensitivity: 14.8 s/mm2

Effective Area: 385 mm2

0.0044 s/cc

FIBROUS PARTICULATES ANALYZED

Number Observed

CONCENTRATION

	Single			Matrix	Total	Total	Filter		Air
	Fibers	Bundles	Clusters		Struct.	Struct. >=5um	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: Related, Tribeca T.R., 105 Duane St., NY, NY

TEM Sample No.: 5769 - 62534

Various Sites

Date Received: 10/26/01

Grid Openings Analyzed: 6

Project Sample No.: 28

Average Grid Opening: 106.00 um

Air Volume: 1300 liters

Total Area Analyzed: 0.0674 mm2

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

Analytical Sensitivity: 14.8 s/mm2

Effective Area: 385 mm2

0.0044 s/cc

FIBROUS PARTICULATES ANALYZED

Number Observed

CONCENTRATION

	Single			Matrix	Total.	Total Struct.	Filter		Air
	Fibers	Bundles	Clusters		Struct.	>=5um	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: 10/26/01

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: Related, Tribeca T.R., 105 Duane St., NY, NY
Various Sites

Date Received: 10/26/01

Project Sample No.: 29

Air Volume: 1300 liters

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

TEM Sample No.: 5769 - 62535

Grid Openings Analyzed: 6

Average Grid Opening: 106.00 um

Total Area Analyzed: 0.0674 mm2

Analytical Sensitivity: 14.8 s/mm2
0.0044 s/cc

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:

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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: Related, Tribeca T.R., 105 Duane St., NY, NY
Various Sites

TEM Sample No.: 5769 - 62535

Date Received: 10/26/01

Grid Openings Analyzed: 6

Project Sample No.: 30

Average Grid Opening: 106.00 um

Air Volume: 1300 liters

Total Area Analyzed: 0.0674 mm2

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

Analytical Sensitivity: 14.8 s/mm2

Effective Area: 385 mm2

0.0044 s/cc

FIBROUS PARTICULATES ANALYZED

Number Observed

CONCENTRATION

	Single			Matrix		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:

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Report Date: 10/26/01

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: Related, Tribeca T.R., 105 Duane St., NY, NY

TEM Sample No.: 5769 - 62537

Various Sites

Date Received: 10/26/01

Grid Openings Analyzed: 6

Project Sample No.: 31

Average Grid Opening: 106.00 um

Air Volume: 1300 liters

Total Area Analyzed: 0.0674 mm2

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

Analytical Sensitivity: 14.8 s/mm2

Effective Area: 385 mm2

0.0044 s/cc

FIBROUS PARTICULATES ANALYZED

Number Observed

CONCENTRATION

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

Marek 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: 10/26/01

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: Related, Tribeca T.R., 105 Duane St., NY, NY

TEM Sample No.: 5769 - 62538

Various Sites

Date Received: 10/26/01

Grid Openings Analyzed: 6

Project Sample No.: 32

Average Grid Opening: 106.00 um

Air Volume: 1300 liters

Total Area Analyzed: 0.0674 mm2

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

Analytical Sensitivity: 14.8 s/mm2

Effective Area: 385 mm2

0.0044 s/cc

FIBROUS PARTICULATES ANALYZED

Number Observed

CONCENTRATION

	Single Fibers	Bundles	Clusters	Matrix Struct.	Total Struct.	Total Struct. >=5um	Filter Struct/mm2	Air 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: Related, Tribeca T.R., 105 Duane St., NY, NY

TEM Sample No.: 5769 - 62539

Various Sites

Date Received: 10/26/01

Grid Openings Analyzed: 6

Project Sample No.: 33

Average Grid Opening: 106.00 um

Air Volume: 1300 liters

Total Area Analyzed: 0.0674 mm2

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

Analytical Sensitivity: 14.8 s/mm2

Effective Area: 385 mm2

0.0044 s/cc

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:

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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: Related, Tribeca T.R., 105 Duane St., NY, NY
Various Sites

Date Received: 10/26/01

Project Sample No.: 34

Air Volume: 1300 liters

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

TEM Sample No.: 5769 - 62540

Grid Openings Analyzed: 6

Average Grid Opening: 106.00 um

Total Area Analyzed: 0.0674 mm2

Analytical Sensitivity: 14.8 s/mm2
0.0044 s/cc

FIBROUS PARTICULATES ANALYZED

Number Observed

CONCENTRATION

	Single			Matrix	Total	Total	Filter		Air
	Fibers	Bundles	Clusters		Struct.	Struct. >=5um	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: 10/26/01

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: Related, Tribeca T.R., 105 Duane St., NY, NY
Various Sites

TEM Sample No.: 5769 - 62541

Date Received: 10/26/01

Grid Openings Analyzed: 6

Project Sample No.: 35

Average Grid Opening: 106.00 um

Air Volume: 1300 liters

Total Area Analyzed: 0.0674 mm2

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

Analytical Sensitivity: 14.8 s/mm2

Effective Area: 385 mm2

0.0044 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.

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Report Date: 10/26/01

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: Related, Tribeca T.R., 105 Duane St., NY, NY
Various Sites

Date Received: 10/26/01

Project Sample No.: 36

Air Volume: 1300 liters

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

TEM Sample No.: 5769 - 62542

Grid Openings Analyzed: 6

Average Grid Opening: 106.00 um

Total Area Analyzed: 0.0674 mm2

Analytical Sensitivity: 14.8 s/mm2
0.0044 s/cc

FIBROUS PARTICULATES ANALYZED

Number Observed

CONCENTRATION

	Single			Matrix	Total	Total	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:

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Report Date: 10/26/01

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: Related, Tribeca T.R., 105 Duane St., NY, NY
Various Sites

TEM Sample No.: 5769 - 62543

Date Received: 10/26/01

Grid Openings Analyzed: 6

Project Sample No.: 37

Average Grid Opening: 106.00 um

Air Volume: 1300 liters

Total Area Analyzed: 0.0674 mm2

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

Analytical Sensitivity: 14.8 s/mm2

Effective Area: 385 mm2

0.0044 s/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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ACCREDITED NVLAP Lab Code # 1187
Report Date: 10/26/01

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: Related, Tribeca T.R., 105 Duane St., NY, NY
Various Sites

TEM Sample No.: 5769 - 62544

Date Received: 10/26/01

Grid Openings Analyzed: 6

Project Sample No.: 38

Average Grid Opening: 106.00 um

Air Volume: 1300 liters

Total Area Analyzed: 0.0674 mm2

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

Analytical Sensitivity: 14.8 s/mm2

Effective Area: 385 mm2

0.0044 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>Filter</u>		<u>ngm/m3</u>
	<u>Fibers</u>			<u>Struct.</u>	<u>Struct.</u>	<u>Struct. >=5um</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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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: Related, Tribeca T.R., 105 Duane St., NY, NY

TEM Sample No.: 5769 - 62545

Various Sites

Date Received: 10/26/01

Grid Openings Analyzed: 6

Project Sample No.: 39

Average Grid Opening: 106.00 um

Air Volume: 1300 liters

Total Area Analyzed: 0.0674 mm2

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

Analytical Sensitivity: 14.8 s/mm2

Effective Area: 385 mm2

0.0044 s/cc

FIBROUS PARTICULATES ANALYZED

Number Observed

CONCENTRATION

	Single			Matrix	Total.	Total	Filter		Air
	Fibers	Bundles	Clusters	Struct.	Struct.	>=5um	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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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: Related, Tribeca T.R., 105 Duane St., NY, NY
Various Sites

TEM Sample No.: 5769 - 62548

Date Received: 10/26/01

Grid Openings Analyzed: 6

Project Sample No.: 42

Average Grid Opening: 106.00 um

Air Volume: 1300 liters

Total Area Analyzed: 0.0674 mm2

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

Analytical Sensitivity: 14.8 s/mm2

Effective Area: 385 mm2

0.0044 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>Filter</u>		<u>ngm/m3</u>
	<u>Fibers</u>			<u>Struct.</u>	<u>Struct.</u>	<u>>=5um</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:

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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: Related, Tribeca T.R., 105 Duane St., NY, NY

TEM Sample No.: 5769 - 62549

Various Sites

Date Received: 10/26/01

Grid Openings Analyzed: 6

Project Sample No.: 43

Average Grid Opening: 106.00 um

Air Volume: 1300 liters

Total Area Analyzed: 0.0674 mm2

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

Analytical Sensitivity: 14.8 s/mm2

Effective Area: 385 mm2

0.0044 s/cc

FIBROUS PARTICULATES ANALYZED

Number Observed

CONCENTRATION

	Single			Matrix	Total.	Total	Filter		Air	
	Fibers	Bundles	Clusters	Struct.	Struct.	Struct. >=5um	Struct/mm2	Struct/cc	ngm/m3	
Chrysotile Asbestos	0	0	0	0	0	0	0.0	0.0000	0	
Amphibole Asbestos	0	0	0	0	0	0	0.0	0.0000	0	
Ambiguous	0	0	0	0	0	0	0.0	0.0000	0	
Total asbestos (includes ambiguous structures)						0	0	0.0	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: Related, Tribeca T.R., 105 Duane St., NY, NY
Various Sites

TEM Sample No.: 5769 - 62550

Date Received: 10/26/01

Grid Openings Analyzed: 6

Project Sample No.: 44

Average Grid Opening: 106.00 um

Air Volume: 1300 liters

Total Area Analyzed: 0.0674 mm2

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

Analytical Sensitivity: 14.8 s/mm2

Effective Area: 385 mm2

0.0044 s/cc

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:

Marek Peysakhov

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

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

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

Approved N.Y. State ELAP #10879
ACCREDITED NVLAP Lab Code # 1187
Report Date: 10/26/01

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: Related, Tribeca T.R., 105 Duane St., NY, NY

TEM Sample No.: 5769 - 62551

Various Sites

Date Received: 10/26/01

Grid Openings Analyzed: 6

Project Sample No.: 45

Average Grid Opening: 106.00 um

Air Volume: 1300 liters

Total Area Analyzed: 0.0674 mm2

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

Analytical Sensitivity: 14.8 s/mm2

Effective Area: 385 mm2

0.0044 s/cc

FIBROUS PARTICULATES ANALYZED

Number Observed

CONCENTRATION

	Number Observed			Total			CONCENTRATION		
	Single Fibers	Bundles	Clusters	Matrix 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:

Marek 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: 10/26/01

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: Related, Tribeca T.R., 105 Duane St., NY, NY

TEM Sample No.: 5769 - 62552

Various Sites

Date Received: 10/26/01

Grid Openings Analyzed: 6

Project Sample No.: 46

Average Grid Opening: 106.00 um

Air Volume: 1300 liters

Total Area Analyzed: 0.0674 mm2

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

Analytical Sensitivity: 14.8 s/mm2

Effective Area: 385 mm2

0.0044 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:

Marek Peysakhov

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

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New York, New York 10010

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New York, NY 10010

Approved N.Y. State ELAP #10879
ACCREDITED NVLAP Lab Code # 1187
Report Date: 10/26/01

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: Related, Tribeca T.R., 105 Duane St., NY, NY
Various Sites

TEM Sample No.: 5769 - 62553

Date Received: 10/26/01

Grid Openings Analyzed: 6

Project Sample No.: 47

Average Grid Opening: 106.00 um

Air Volume: 1300 liters

Total Area Analyzed: 0.0674 mm2

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

Analytical Sensitivity: 14.8 s/mm2

Effective Area: 385 mm2

0.0044 s/cc

FIBROUS PARTICULATES ANALYZED

Number Observed

CONCENTRATION

	Single			Matrix	Total.	Total	Filter		Air
	Fibers	Bundles	Clusters		Struct.	Struct. >=5um	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:

Marek 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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104 East 25th Street
New York, NY 10010

Approved N.Y. State ELAP #10879
ACCREDITED NVLAP Lab Code # 1187
Report Date: 10/26/01

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: Related, Tribeca T.R., 105 Duane St., NY, NY

TEM Sample No.: 5769 - 62554

Various Sites

Date Received: 10/26/01

Grid Openings Analyzed: 6

Project Sample No.: 48

Average Grid Opening: 106.00 um

Air Volume: 1300 liters

Total Area Analyzed: 0.0674 mm2

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

Analytical Sensitivity: 14.8 s/mm2

Effective Area: 385 mm2

0.0044 s/cc

FIBROUS PARTICULATES ANALYZED

Number Observed

CONCENTRATION

	Number Observed			Total			CONCENTRATION		
	Single Fibers	Bundles	Clusters	Matrix 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:

Marek Peysakhov

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



AIR MONITORING DATA

AND

CHAIN OF CUSTODY FORM

PROJECT INFORMATION

1. Client: Related 2. Project Name: Tribea TR. 3. Project #: 62507-62554 4. Project Monitor: Robert Solovey 4c. Rotameter Number: HP-89

5. Date: 10/28/01 6. Abatement Location: 5769 43/48 7. ☐ PCM (0.8 micron MCE) ☒ TEM (0.45 micron MCE) 8. 20264016 9. Type: Pre-Abate 9a. ☐ Background Pre-Abate 9b. ☐ OSHA Pre-Abate 9c. ☐ Abatement Pre-Abate 9d. ☐ Post-Abate Pre-Abate 9e. ☐ Environmental Pre-Abate 9f. ☐ Ambient Pre-Abate 9g. ☐ Other Pre-Abate 9h. ☐ Other Pre-Abate

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. IWA	12b. OWA	13a. Start	13b. End	13c. Total	14a. Start	14b. End	14c. Avg			
01												
02												
03												
04												
05												
06												
07												
08												
09												

CHAIN OF CUSTODY

18. Relinquished By: F. Buckholz 19. Received By: F. Buckholz 20. Date: 10/28/01 21. Time: 8:00

26. ATC Project Manager: F. Buckholz 27. Result To: F. Buckholz 28. Comments:

25. Microscope Make/Serial #: 25a. ☐ Nikon Labophot 238913 ☐ Nikon Labophot 238917 ☐ Nikon Labophot 239079

Analysis Methodology: PCM - NIOSH 7400A TEM - AHERA



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

PROJECT INFORMATION

1. Client: <u>Related</u>	2. Project Name <u>Tribees T.R.</u>	3. Project #	4. Project Monitor <u>Robert Solomon</u>	4c. Rotameter Number: <u>11380</u>
5. Date: <u>10/25/01</u>	2a. Project Address	3a. Task #	4a. Air Sampler:	
6. Abatement Location:	7. ☐ PCM (0.8 micron MCE) Cassette/Filter Manufacture Lot #	8. ☒ TEM (0.45 micron MCE) Cassette/Filter Manufacture Lot # <u>0064916</u>	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. IWA	12b. OWA	12c. Sample Coordinates		13a. Start	13b. End	13c. Total	14a. Start	14b. End	14b. Avg			
			Field Blank										
			Field Blank										
10	X		holloway 45+60		10:57	13:07	13:00	10.0	10.0	10	1300		
11	X		holloway 45+60		11:01	13:10	13:00	10.0	10.0	10	1300		
12	X		Apt #44 E		11:05	13:15	13:00	10.0	10.0	10	1300		
13	X		Apt #44 E		11:10	13:20	13:00	10.0	10.0	10	1300		
14	X		Apt #33 B		11:15	13:25	13:00	10.0	10.0	10	1300		
15	X		Apt #31 G		11:20	13:30	13:00	10.0	10.0	10	1300		

CHAIN OF CUSTODY

18. Relinquished By: <u>I 1500004</u>	19. Received By:	20. Date:	21. Time:
II <u>10/26/01</u>	<u>JD</u>	<u>10/26/01</u>	<u>8am</u>
III			

26. ATC Project Manager: <u>E. Bunkh</u>	27. Result To: <u>F. Bunkh</u>	28. Comments:
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LAB INFORMATION (ATC ELAP # 10879, ATC NVLAP # 1187)

22. Lab Name: <u>ATC</u>	23. Date: <u>10/25/01</u>	24. Time: <u>11:00</u>
a. Analyzed By: <u>[Signature]</u>	b. QC By:	c. Lab Batch #:
25. Microscope Make/Serial #: ☐ Nikon Labophot 238913 ☐ Nikon Labophot 238917 ☐ Nikon Labophot 239079		
Analysis Methodology: PCM - NIOSH 7400A TEM - AHERA		

WHITE - File YELLOW - Client/Report

PINK - Lab

GOLDENROD - Field

NY 1 (1/01)



AIR MONITORING DATA

AND

CHAIN OF CUSTODY FORM

PROJECT INFORMATION

1. Client: <u>Related</u>	2. Project Name: <u>Tribees 7.R</u>	3. Project #	4. Project Monitor: <u>OSHA</u>	4c. Rotameter Number: <u>412.89</u>
5. Date: <u>6/25/04</u>	2a. Project Address	3a. Task #	4a. Air Sampler:	
6. Abatement Location:	7. ☐ PCM (0.8 micron MCE) Cassette/Filter Manufacture Lot #	8. ☒ TEM (0.45 micron MCE) Cassette/Filter Manufacture Lot # <u>60067916</u>	9. Type: a. ☐ Background b. ☐ Pre-Abate	c. ☐ Abatement d. ☐ Post-Abate e. ☐ OSHA f. ☐ Environmental g. ☒ Ambient h. ☐ Other

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 Conc. F/CC
		12a. IWA	12b. OWA	13a. Start	13b. End	13c. Total	14a. Start	14b. End			
16											
17											
18											
19											
20											
21											

CHAIN OF CUSTODY

18. Relinquished By: <u>OSHA</u>	19. Received By:	20. Date:	21. Time:
II <u>OSHA</u>	<u>OSHA</u>	<u>6/25/04</u>	<u>12:00</u>
III			

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

22. Lab Name: <u>ATC</u>	23. Date: <u>6/25/04</u>	24. Time: <u>12:00</u>
a. Analyzed By: <u>OSHA</u>		
b. QC By:		
c. Lab Batch #:		
28. Comments:		
25. Microscope Make/Serial #: ☐ Nikon Labophot 238913 ☐ Nikon Labophot 238917 ☐ Nikon Labophot 239079		
Analysis Methodology: PCM - NIOSH 7400A TEM - AHERA		

ATC Project Manager:

27. Result To: <u>F. Burkhardt</u>	27. Result To: <u>F. Burkhardt</u>
Beeper/Phone #'s	

WHITE - File

YELLOW - Client/Report

PINK - Lab

GOLDENROD - Field

NY 1 (1/01)



AIR MONITORING DATA

AND

CHAIN OF CUSTODY FORM

Page 4

TURNAROUND TIME

☐ 2 hrs ☐ 6 hrs ☐ 48 hrs ☐ Standby
☐ 4 hrs ☐ 24 hrs ☐ 72 hrs ☐ Other _____

PROJECT INFORMATION

1. Client: <u>Related</u>	2. Project Name: <u>105 Duane St</u>	3. Project #	4. Project Monitor: <u>105 Duane St</u>	4c. Rotameter Number: <u>105 Duane St</u>
5. Date: <u>10/30/01</u>	6. Abatement Location: <u>105 Duane St</u>	3a. Task #	4a. Air Sampler:	
	7. ☐ PCM (0.8 micron MCE) Cassette/Filter Manufacture Lot # _____	8. ☒ TEM (0.45 micron MCE) Cassette/Filter Manufacture Lot # <u>80264475</u>	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. # Fibers/Fields Minus Blank	16. Total Air Vol. (liters)	17. Fiber Conc. FCC
	12a. IWA	12b. OWA	12c. Sample Coordinates	Field Blank	13a. Start	13b. End	14a. Start	14b. End	14b. Avg		
22			<u>X</u>	<u>Apt #435</u>	<u>14:27</u>	<u>16:37</u>	<u>12.0</u>	<u>14.0</u>	<u>10</u>	<u>12.0</u>	
23			<u>X</u>	<u>Hallway floor #43</u>	<u>14:31</u>	<u>16:44</u>	<u>10.0</u>	<u>10.0</u>	<u>10</u>	<u>10.0</u>	
24			<u>X</u>	<u>Hallway floor #41</u>	<u>14:35</u>	<u>16:48</u>	<u>10.0</u>	<u>10.0</u>	<u>10</u>	<u>10.0</u>	
25			<u>X</u>	<u>Hallway Floor #40</u>	<u>14:38</u>	<u>16:47</u>	<u>10.0</u>	<u>10.0</u>	<u>10</u>	<u>10.0</u>	
26			<u>X</u>	<u>Apt #374</u>	<u>14:41</u>	<u>16:51</u>	<u>10.0</u>	<u>10.0</u>	<u>10</u>	<u>10.0</u>	
27			<u>X</u>	<u>Hallway floor #35</u>	<u>14:46</u>	<u>16:56</u>	<u>10.0</u>	<u>10.0</u>	<u>10</u>	<u>10.0</u>	

CHAIN OF CUSTODY

18. Relinquished By: <u>I. S. S. S. S. S.</u>	19. Received By: _____	20. Date: _____	21. Time: _____
II. _____	_____	_____	_____
III. _____	_____	_____	_____
26. ATC Project Manager: <u>I. S. S. S. S. S.</u>	27. Result To: <u>I. S. S. S. S. S.</u>	28. Comments: _____	
Beeper/Phone #'s _____		28. Comments: _____	

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

22. Lab Name: <u>ATC ELAP # 10879</u>	23. Date: <u>10/30/01</u>	24. Time: <u>10:00</u>
a. Analyzed By: <u>I. S. S. S. S.</u>	b. QC By: _____	c. Lab Batch #: _____
25. Microscope Make/Serial #: ☐ Nikon Labophot 238913 ☐ Nikon Labophot 238917 ☐ Nikon Labophot 239079		
Analysis Methodology: PCM - NIOSH 7400A TEM - AHERA		

WHITE - File YELLOW - Client/Report PINK - Lab GOLDENROD - Field



AIR MONITORING DATA

AND

CHAIN OF CUSTODY FORM

PROJECT INFORMATION

1. Client: Related 2. Project Name: Trifecta TR 3. Project # 5769 4. Project Monitor: Robert S. S. S. S. 4c. Rotameter Number: 111

2a. Project Address: 105 Duane St 3a. Task # 105664976 4a. Air Sampler: 111

5. Date: 10/25/01 6. Abatement Location: 105 Duane St 7. ☐ PCM (0.8 micron MCE) 8. ☒ TEM (0.45 micron MCE) 9. Type: 111

10. ☐ PCM (0.8 micron MCE) 11. ☐ TEM (0.45 micron MCE) 12. ☐ TEM (0.45 micron MCE) 13. ☐ TEM (0.45 micron MCE) 14. ☐ TEM (0.45 micron MCE) 15. ☐ TEM (0.45 micron MCE) 16. ☐ TEM (0.45 micron MCE) 17. ☐ TEM (0.45 micron MCE)

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. IWA	13a. Start	14a. Start	14b. Avg		
		12b. OWA	13b. End	14b. End			
		Field Blank					
		Field Blank					
28		hallway floor # 34	14:50 17:00	10.0	10	17.0	
29		Management	18:00 20:10	10.0	10	17.0	
30		Apt # 413E	18:00 20:18	10.0	10	13.0	
31		Apt # 48H	18:10 20:20	10.0	10	13.0	
32		Apt # 46F	18:15 20:25	10.0	10	13.0	
33		Apt # 44B	18:18 20:18	10.0	10	13.0	

CHAIN OF CUSTODY

18. Relinquished By: 111 19. Received By: 111 20. Date: 10/25/01 21. Time: 8:00

26. ATC Project Manager: 111 27. Result To: 111 28. Result To: 111 29. Result To: 111

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

22. Lab Name: 111 23. Date: 10/25/01 24. Time: 11:00

a. Analyzed By: 111 b. QC By: 111 c. Lab Batch #: 111

25. Microscope Make/Serial #: 111 26. Microscope Make/Serial #: 111 27. Microscope Make/Serial #: 111

28. Comments: 111

WHITE - File YELLOW - Client/Report

PINK - Lab GOLDENROD - Field



AIR MONITORING DATA

AND

CHAIN OF CUSTODY FORM

Page 1 of 1

PROJECT INFORMATION

1. Client: <u>Valley View</u>	2. Project Name: <u>Tricare</u>	3. Project #	4. Project Monitor: <u>Robert Seiberg</u>	4c. Rotameter Number: <u>113-39</u>
5. Date: <u>10/18/01</u>	2a. Project Address: <u>105 Avenue of the Americas</u>	3a. Task #	4a. Air Sampler:	
6. Abatement Location:	7. ☐ PCM (0.8 micron MCE) Cassette/Filter Manufacture Lot #	8. ☒ TEM (0.45 micron MCE) Cassette/Filter Manufacture Lot #	9. Type:	
			a. ☐ Background b. ☐ Pre-Abate	c. ☐ Abatement d. ☐ Post-Abate e. ☐ OSHA
				f. ☐ Environmental g. ☒ Ambient h. ☐ Other

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 Conc. F/CC
		12a. IWA	12b. OWA	13a. Start	13b. End	13c. Total	14a. Start	14b. End	14b. Avg			
141												
205				18:38	20:48	130	10.0	10.0	10.0	1300		
206				18:39	20:43	130	10.0	10.0	10.0	1300		
207				18:29	20:30	130	10.0	10.0	10.0	1300		
208				18:25	20:35	130	10.0	10.0	10.0	1300		
209				18:28	20:38	130	10.0	10.0	10.0	1300		
210				22:00	24:10	130	10.0	10.0	10.0	1300		

CHAIN OF CUSTODY

18. Relinquished By: <u>I. Seiberg</u>	19. Received By: <u>J.R. 10/26/01</u>	20. Date: <u>10/26/01</u>	21. Time: <u>10:25</u>
26. ATC Project Manager: <u>I. Seiberg</u>	27. Result To: <u>F. Burkhardt</u>	Beeper/Phone #'s	

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

22. Lab Name: <u>ATC</u>	23. Date: <u>10/26/01</u>	24. Time: <u>10:25</u>
a. Analyzed By: <u>I. Seiberg</u>	b. QC By: <u></u>	c. Lab Batch #: <u></u>
28. Comments: <u></u>		
25. Microscope Make/Serial #: ☐ Nikon Labophot 238913 ☐ Nikon Labophot 238917 ☐ Nikon Labophot 239079		
Analysis Methodology: PCM - NIOSH 7400A TEM - AHERA		

WHITE - File YELLOW - Client/Report

PINK - Lab GOLDENROD - Field



AIR MONITORING DATA AND CHAIN OF CUSTODY FORM

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PROJECT INFORMATION

Client: <u>Related</u>	2. Project Name: <u>Fiberco I.R.</u>	3. Project #	4. Project Monitor: <u>105-211111-1111</u>	4c. Rotameter Number: <u>111111</u>
Date: <u>11/11/11</u>	2a. Project Address: <u>105-211111-1111</u>	3a. Task #	4a. Air Sampler:	
6. Abatement Location:	7. ☐ PCM (0.8 micron MCE) Cassette/Filter Manufacture Lot #	8. ☒ TEM (0.45 micron MCE) Cassette/Filter Manufacture Lot # <u>60164716</u>	9. Type: a. ☐ Background b. ☐ Pre-Abate c. ☐ Abatement d. ☐ Post-Abate e. ☐ OSHA	f. ☐ Environmental g. ☐ Ambient h. ☐ Other

TURNAROUND TIME

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

DAILY AIR SAMPLE RECORD

Sample I.D. Number	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. IWA	12b. OWA	13a. Start	13b. End	13c. Total	14a. Start	14b. End	14b. Avg		
410											
411											
412	V			22:05	24:15	130	10.0	10.0	10	1300	
413	V			22:10	24:20	130	10.0	10.0	10	1300	
414	V			22:15	24:25	130	10.0	10.0	10	1300	
415	V			22:20	24:30	130	10.0	10.0	10	1300	
416	V			22:25	24:35	130	10.0	10.0	10	1300	
417	V			22:30	24:40	130	10.0	10.0	10	1300	
418	V			22:40	24:50	130	10.0	10.0	10	1300	

CHAIN OF CUSTODY

Relinquished By: <u>105-211111-1111</u>	19. Received By: <u>105-211111-1111</u>	20. Date: <u>11/11/11</u>	21. Time: <u>11:11</u>
ATC Project Manager: <u>105-211111-1111</u>	27. Result To: <u>105-211111-1111</u>	28. Comments:	

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

22. Lab Name: <u>105-211111-1111</u>	23. Date: <u>11/11/11</u>	24. Time: <u>11:11</u>
a. Analyzed By: <u>105-211111-1111</u>	b. QC By: <u>105-211111-1111</u>	c. Lab Batch #: <u>105-211111-1111</u>
25. Microscope Make/Serial #: ☐ Nikon Labophot 238913 ☐ Nikon Labophot 238917 ☐ Nikon Labophot 239079		
Analysis Methodology: PCM - NIOSH 7400A TEM - AHERA		

PINK - Lab GOLDENROD - Field

WHITE - File YELLOW - Client/Report