NYC 9/11 Public Portal Document

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

February 21, 2002

NYC DEP Asbestos Control Program
59-17 Junction Boulevard, 8th Floor
Corona, New York 11373-5108
Attention: R. Radhakrishnan, P.E., Director

Subject: Parc Place, 225 Rector Place

Dear Sir or Madam:

As per your request, attached please find a summary report of ambient air sampling and cleanup activities performed at Parc Place, 225 Rector Place, supervised by our environmental consultants, ATC Associates Inc.

If you require further information, please call me at 212-981-3520.

Sincerely,

Lisa Bergenty (P.V.)
Lisa Bergenty
Senior District Manager

cc: Peter Hoyle

NYC 9/11 Public Portal Document

Address: 225 RECTOR AKA PARC PLACE

Bulk Samples PLM (Yes) No

Number of Negative (≤ 1 %) Samples 83

Number of Positive (> 1%) Samples 1

PLUS 2 LISTED AS "TR"

Air Samples (Yes) No

PCM

Number of Samples Collected (≤ 0.01f/cc) 169

Number of Samples Collected (>0.01 f/cc) 4

INCLUDES 37 RE ROOF PROJECT

TEM

Number of Samples Collected (≤ 70 s/mm²) 85

Number of Samples Collecte i (>70 s/mm²) 1

24, 16, 20, 30

- ACM REMOVED FROM ROOF (ACP7 FILED)
- CLEANING ALSO PERFORMED
- "SAMPLES WERE COLLECTED FROM TWO HALLWAY LOCATIONS AND THREE APARTMENTS ON EACH FLOOR"

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ATC ASSOCIATES INC.

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

October 2, 2001

Mr. Peter Hoyle
Related Management Company, L.P.
203 East 86th Street
New York, New York 10028

Re: PARC PLAZA – 225 Rector Place

Dear Mr. Hoyle,

In response to Parc Plaza's air quality concern following the collapse of the World Trade Center buildings on September 11, 2001, ATC has provided the following services within the building;

1. Interviews with building maintenance personnel.
2. A visual inspection of the ventilating, and air-conditioning systems including air intakes for cleanliness.
3. A walk-through visual inspection of residential units and common areas.
4. Real time monitoring for airborne particulate on all floors.
5. Collection of representative ambient air samples for fiber analysis.
6. Collection of bulk samples representative of the accumulated dust and debris for analysis for asbestos content.
7. Oversight of the clean up of dust accumulations within various residential units.

Based upon the ATC observations and analyses, ATC concludes that;

1. Building maintenance personnel successfully shut down the house air conditioning system minimizing dust intrusion.
2. The house-supplied air conditioning was off-line and free of dust accumulations.
3. Bulk sample results confirmed that the accumulation of dust from the interior was not asbestos containing material.
4. Common areas and residential units identified with accumulations of dust have been appropriately cleaned using the procedures provided by the NYCDEP.
5. Ambient air samples collected throughout the building recorded fiber concentrations below the acceptable airborne clearance requirement following an abatement action and the building meets the acceptable criteria for reoccupancy.

If you have any questions or require additional explaination of the information presented please do not hesitate to call me at 212-353-8280

Sincerely,

Fred Burkhardt
Senior Project Manager
ATC Associates Inc.

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OCT 02 2001
ONLY TYPEWRITTEN FORMS WILL BE ACCEPTED
Ctl #

EMERGENCY ER 137/01

NYC DEPARTMENT OF ENVIRONMENTAL PROTECTION
Asbestos Control Program
59-17 Junction Boulevard, 8th Floor, Corona, NY 11368-5107

ASBESTOS PROJECT NOTIFICATION
(ASBESTOS INSPECTION REPORT)

TRU 1224M N01
Building Dept. or TRU No
FOR OFFICIAL USE ONLY

1. 1,200 —
(See fee schedule)

When submitting this form at the NYC Department of Buildings, the original form and three (3) copies with original signatures are required. Submittal at the NYCDEP requires one copy of the form with original signatures. This form must be submitted to the NYC DEP not less than one week in advance of the start of abatement activities .

I. FACILITY

2. Address 225 Rector Place Borough Manhattan Zip 10280

AKA Parc Place 3. Block 16 4. Lot 70

5. Type of Facility Apartment House 6. Name of Building

II. BUILDING OWNER

7. Name Liberty View Associates L.P. 8. Contact Person Peter Hoyle

9. Tel. # (212) 521-6404 Fax # (212) 593-5793

10. Address 203 East 86th Street City New York State NY Zip 10028

III. GENERAL CONTRACTOR

11. Name Tel. #

IV. ASBESTOS ABATEMENT CONTRACTOR

12. Name Hazardous Elimination Corporation 13. Contact Person A. Konstandt

14. Federal Employer ID. PII 15. Tel. # (631) 752-2898 Fax # (631) 752-2910

16. Address 195H Central Avenue City Farmingdale State NY Zip 11735

V. THIRD PARTY AIR MONITOR

17. Name ATC Associates 18. Contact Person F. Berkhardt

19. Federal Employer ID. PII 20. Tel. # (212) 353-8280 Fax # (212) 353-8306

21. Address 104 East 25th Street City New York State NY Zip 10010

22. Sample Analysis Laboratory ATC Associates 23. NYS DOH ELAP # 10879

VI. PROJECT INFORMATION

24. Starting date for this portion of work 10/1/01 Projected completion date 10/4/01

Asbestos work schedule ☑ Monday ☑ Tuesday ☑ Wednesday ☑ Thursday ☐ Friday ☐ Saturday ☐ Sunday

Shift from: 7 ☑ am ☐ pm to 7 ☐ am ☑ pm

If other, specify

Access to inspect the premises must be provided during the work schedule indicated in this item.

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OCT 02 2001

25. Total amount of asbestos-containing material to be abated during this work

9,000 Square Feet, and/or 0 Linear Feet

ACP 7
2/2001

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ATTACHMENT 1
AIR SAMPLING DATA & CHAIN OF CUSTODY FORM,

PCM AMBIENT AIR SAMPLES

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NYC-WTC_000123879

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ATC ASSOCIATES INC.

Project Memorandum

Subject: 225 Rector Place

Re: Ambient Air Sampling

To: Peter Hoyle
Related Management

From: Fred Burkhardt

Date: October 23, 2001

Attached please find the Air Monitoring Data and Chain of Custody Forms (30 pages) for the ambient air samples collected by ATC Associates and analyzed by phase contrast microscopy (PCM). Samples were collected from two hallway locations and three apartments on each floor of 225 Rector Place. Apartments sampled are identified in the following table.

Floor	Apartments	Floor	Apartments
Penthouse	PII	11	PII
23		10	
22		9	
21		8	
20		7	
19		6	
18		5	
17		4	
16		3	
15		2	
14		1	
12		Basement	Garage

PII
APT. Hallway 4 1 Gar. 15, 3, 7

All areas sampled recorded fiber levels less than or equal to 0.01 f/cc. However, particulate matter raised by HEPA vacuuming activities obscured the initial analysis of the samples collected from the north side of the 15th and 2nd floors and apartment PII On 9-24-01 following HEPA cleaning the 15th and 2nd floor hallways were re-tested with all six samples recording levels less than 0.01 f/cc. Following HEPA vacuuming of apartment PII the apartment was re-tested recording a fiber level less than 0.01 f/cc, consistent with the other four samples collected from the seventh floor and does not present an issue at this time.

In conclusion, based upon the analytical results 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. If you have any questions or require additional explaination of the information presented please do not hesitate to call me at 212-353-8280.

Thank You.

NYC 9/11 Public Portal Document

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:
Weatherford Mgmt	Ambient Sample		M. Nugent	FW-01
	2a. Project Address: 225 Rector Pl	3a. Task #	4a. Air Sampler: A. Lum	

5. Date:	6. Abatement Location:	7. ☒ PCM (0.8 micron MCE)	8. ☐ TEM (0.45 micron MCE)	9. Type:
09-28-01	18E 16J-H 15-N APT 10-A-05K 2F	Cassette/Filter Manufacture ____ Lot # ____	Cassette/Filter Manufacture ____ Lot # ____	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 12a. IWA	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	14b. Avg	15. Total Air Vol. (liters)	16. # Fibers/Fields Minus Blank	17. Fiber Conc. F/CC
01				Field Blank								0/100	
02				Field Blank								0/100	
16-03				Center of APT PII	11:00	2:00	180	7	7	7	1260	8/100	<0.004
18-04				Center of APT PII	11:03	2:04	181	7	7	7	1267	3/100	<0.004
15-05				Center of APT PII	11:05	2:05	181	7	7	7	1267	10/100	0.004
10-06				Center of APT PII	11:18	2:19	181	7	7	7	1267	2/100	<0.004
10-07				Center of APT PII	11:19	2:20	181	7	7	7	1267	5/100	<0.004
16-08				Center of APT PII	12:22	2:23	181	7	7	7	1267	1/100	<0.004

CHAIN OF CUSTODY

	18. Relinquished By:	19. Received By:	20. Date:	21. Time:
I				
II				
III		GSA	9/29	7 AM

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

22. Lab Name:	23. Date:	24. Time:
a. Analyzed By: A. Elbert	09.29.01	11am
b. QC By:		
c. Lab Batch #: 97187		

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

Analysis Methodology
PCM - NIOSH 7400A
TEM - AHERA

26. ATC Project Manager: Fred B

27. Result To: FAX 1 212 945-3768
Beeper/Phone #'s ____

28. Comments:

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

NY-1 (1/01)

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AIR MONITORING DATA AND CHAIN OF CUSTODY FORM

ATC ASSOCIATES INC.

Page _____ of _____

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:
Rockefeller Univ	AMBIENT SAMPLES			FW-01
	2a. Project Address	3a. Task #	4a. Air Sampler:	

5. Date:	6. Abatement Location:	7. ☒ PCM (0.8 micron MCE)	8. ☐ TEM (0.45 micron MCE)	9. Type:
09-28-01		Cassette/Filter Manufacture _____ Lot # _____	Cassette/Filter Manufacture _____ Lot # _____	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 12a. IWA	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	14b. Avg	15. Total Air Vol. (liters)	16. # Fibers/Fields Minus Blank	17. Fiber Conc. F/CC
				Field Blank									
				Field Blank									
2-09				Center of APT PII	11:25	2:26	181	7	7	7	1267	3/100	<0.004
5-10				Center of APT PII	11:28	2:29	181	7	7	7	1267	14/100	0.005
7-11				Center of APT PII	11:30	1:30	120	15	15	15	1800	1/100	<0.003

CHAIN OF CUSTODY

18. Relinquished By:	19. Received By:	20. Date:	21. Time:
I			
II			
III	GA	9/29	7am

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

22. Lab Name:	23. Date:	24. Time:
a. Analyzed By: A. Elbeal	09.29.01	11 am
b. QC By:		
c. Lab Batch #: 97187		

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

Analysis Methodology
(PCM - NIOSH 7400A)
TEM - AHERA

26. ATC Project Manager:	27. Result To: PS #1	28. Comments:
Fred B	Beeper/Phone #'s _____	

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

NY-1 (1/01)

NYC-WTC_000123882

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AIR MONITORING DATA AND CHAIN OF CUSTODY FORM

Page _____ of _____

TURNAROUND TIME

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

PROJECT INFORMATION

1. Client:	2. Project Name: Ambient Sampl	3. Project #	4. Project Monitor:	4c. Rotameter Number:
Realty Management	2a. Project Address: 285 Rector Pl	3a. Task #	4a. Air Sampler:	FW-01

5. Date:	6. Abatement Location:	7. ☒ PCM (0.8 micron MCE)	8. ☐ TEM (0.45 micron MCE)	9. Type:
09-27-01	APT 18D	Cassette/Filter Manufacture _____ Lot # _____	Cassette/Filter Manufacture _____ Lot # _____	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: 12a. IWA	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	14b. Avg	15. Total Air Vol. (liters)	16. # Fibers/Fields Minus Blank	17. Fiber Conc. F/CC
01				Field Blank								0/100	
02				Field Blank								0/100	
1803				Center of Apt PII	18:30	21:30	180	7	7	7	1260	9/100	<.004

CHAIN OF CUSTODY

	18. Relinquished By:	19. Received By:	20. Date:	21. Time:
I	[signature]	[signature]	09/27/01	2230
II				
III				

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

22. Lab Name:	23. Date:	24. Time:
a. Analyzed By: [signature]	9/28/01	0600
b. QC By:		
c. Lab Batch #: 97165		

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

Analysis Methodology
PCM - NIOSH 7400A
TEM - AHERA

26. ATC Project Manager:	27. Return to: FAX 1212-945-3768 Beeper/Phone #'s _____	28. Comments:
[signature]		

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

NY-1 (1/01)

NYC-WTC_000123883

NYC 9/11 Public Portal Document

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: Ambient Samples	3. Project #:	4. Project Monitor:	4c. Rotameter Number:
Realated Ugarte	2a. Project Address: 225 Rector PL	3a. Task #	4a. Air Sampler:	FW-01

5. Date:	6. Abatement Location:	7. ☒ PCM (0.8 micron MCE)	8. ☐ TEM (0.45 micron MCE)	9. Type:
09-27-01	APTS 14F 14J 14P 12H 12B	Cassette/Filter Manufacture ____ Lot # ____	Cassette/Filter Manufacture ____ Lot # ____	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: 12a. IWA	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	14b. Avg	15. Total Air Vol. (liters)	16. # Fibers/Fields Minus Blank	17. Fiber Conc. F/CC
01				Field Blank								0/100	
02				Field Blank								0/100	
14-03				Center of APT PII	09:00	12:01	181	7	7	7	1267	4/100	<.004
14-04				Center of APT PII	09:02	12:03	181	7	7	7	1267	7/100	<.004
14-05				Center of APT PII	09:04	12:05	181	7	7	7	1267	3/100	<.004
12-06				Center of APT PII	09:06	12:07	181	7	7	7	1267	3/100	<.004
12-07				Center of APT PII	09:09	12:11	182	7	7	7	1274	4/100	<.004

CHAIN OF CUSTODY

	18. Relinquished By:	19. Received By:	20. Date:	21. Time:
I			09/27/01	2235
II				
III				

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

22. Lab Name:	23. Date:	24. Time:
a. Analyzed By:	9/28/01	0600
b. QC By:		
c. Lab Batch #: 97164		

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

Analysis Methodology
PCM - NIOSH 7400A
TEM - AHERA

26. ATC Project Manager:	27. Result To: FAX 1-212-945-3768 Beeper/Phone #'s ____	28. Comments:
Fred B		

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

NY-1 (1/01)

NYC-WTC_000123884

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AIR MONITORING DATA AND CHAIN OF CUSTODY FORM

ATC ASSOCIATES INC.

Page _____ of _____

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

PROJECT INFORMATION

1. Client:	2. Project Name: APT Samplers	3. Project #:	4. Project Monitor:	4c. Rotameter Number:
Realistech Management	2a. Project Address: 225 Rector Place	3a. Task #	4a. Air Sampler:	FW-01

5. Date:	6. Abatement Location:	7. ☒ PCM (0.8 micron MCE)	8. ☐ TEM (0.45 micron MCE)	9. Type:
09-26-01		Cassette/Filter Manufacture _____ Lot # _____	Cassette/Filter Manufacture _____ Lot # _____	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: 12a. IWA	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	14b. Avg	15. Total Air Vol. (liters)	16. # Fibers/Fields Minus Blank	17. Fiber Conc. F/CC
01				Field Blank								0/100	
02				Field Blank								0/100	
1-03				Center APT -	09:00	12:00	180	7	7	7	1260	4/100	<0.004
1-04				Center APT -	09:02	12:03	181	7	7	7	1267	1/100	<0.004
3-05				Center APT -	09:06	12:07	181	7	7	7	1267	2/100	<0.004
6-06				Center APT -	09:10	12:11	181	7	7	7	1267	3/100	<0.004
7-07				Center APT -	09:12	12:13	181	7	7	7	1267	3/100	<0.004
7-08				Center APT -	09:15	12:16	181	7	7	7	1267	2/100	<0.004

PII

CHAIN OF CUSTODY

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

26. ATC Project Manager:	27. Results To: FAX 1-212-945-3768 Beeper/Phone #'s _____

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

22. Lab Name:	23. Date:	24. Time:
a. Analyzed By: R. Broudiza	9.27.01	01.30
b. QC By:		
c. Lab Batch #: 97139		

25. Microscope Make/Serial #: Olympus 1025
☐ Nikon Labophot 238913
☐ Nikon Labophot 238917
☐ Nikon Labophot 239079

Analysis Methodology
PCM - NIOSH 7400A
TEM - AHERA

28. Comments:

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

NY-1 (1/01)

NYC-WTC_000123885

NYC 9/11 Public Portal Document

AIR MONITORING DATA AND CHAIN OF CUSTODY FORM

Page _____ of _____

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:
Realtored Mgmt	APT Sampling		Michael Anderson	FW-01
	2a. Project Address	3a. Task #	4a. Air Sampler:	

5. Date:	6. Abatement Location:	7. ☒ PCM (0.8 micron MCE)	8. ☐ TEM (0.45 micron MCE)	9. Type:
09-28		Cassette/Filter Manufacture _____ Lot # _____	Cassette/Filter Manufacture _____ Lot # _____	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: 12a. IWA	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	14b. Avg	15. Total Air Vol. (liters)	16. # Fibers/Fields Minus Blank	17. Fiber Conc. F/CC
				Field Blank									
				Field Blank									
7-09				Center APT	09:17	12:18	181	7	7	7	1267	2/100	<0.004
8-10				Center APT -	09:20	12:21	181	7	7	7	1267	5/100	<0.004
8-10				Center APT -	09:22	12:22	180	7	7	7	1260	1/100	<0.004
9-12				Center APT -	09:24	12:25	181	7	7	7	1267	4/100	<0.004
9-13				Center APT -	09:26	12:27	181	7	7	7	1267	4/100	<0.004
9-14				Center APT -	09:28	12:29	181	7	7	7	1267	2/100	<0.004

PII

CHAIN OF CUSTODY

18. Relinquished By:	19. Received By:	20. Date:	21. Time:
I Michael Anderson	Rhog	09/26/01	21:40
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 #: 97139		

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

Analysis Methodology
PCM - NIOSH 7400A
TEM - AHERA

26. ATC Project Manager:	27. Result To:	28. Comments:
Fred. B	PJ #1	
	Beeper/Phone #'s _____	

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

NY-1 (1/01)

NYC-WTC_000123886

NYC-WTC_000123887

NYC 9/11 Public Portal Document

ATC ASSOCIATES INC.

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: APT Sampling	3. Project #:	4. Project Monitor:	4c. Rotameter Number:
Realated Mgmt	2a. Project Address: 225 Rector PL	3a. Task #	4a. Air Sampler:	FW601

5. Date:	6. Abatement Location:	7. ☒ PCM (0.8 micron MCE)	8. ☐ TEM (0.45 micron MCE)	9. Type:
9/26/01	Apts 5 P+5K	Cassette/Filter Manufacture _____ Lot # _____	Cassette/Filter Manufacture _____ Lot # _____	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: 12a. IWA	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	14b. Avg	15. Total Air Vol. (liters)	16. # Fibers/Fields Minus Blank	17. Fiber Conc. F/CC
01				Field Blank								0/100	
02				Field Blank								0/100	
5-03				Center Apt	10:00	13:01	181	7	7	7	1267	3/100	<0.004
5-04				Center Apt	10:03	13:04	181	7	7	7	1267	10/100	0.004

PII

CHAIN OF CUSTODY

18. Relinquished By:	19. Received By:	20. Date:	21. Time:
I		09/26/01	2140
II			
III			

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

22. Lab Name:	23. Date:	24. Time:
a. Analyzed By:	09/26/01	2235
b. QC By:		
c. Lab Batch #: 97137		

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

Analysis Methodology
PCM - NIOSH 7400A
TEM - AHERA

26. ATC Project Manager:

27. Results To: FAX 1-212-945-3768
Beeper/Phone #'s _____

28. Comments:

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

NY-1 (1/01)

NYC-WTC_000123888

NYC 9/11 Public Portal Document

VATC ASSOCIATES INC.

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:
Realtex Hgmt	APT Sample			1FW-01
	2a. Project Address: 225 Rector PL	3a. Task #:	4a. Air Sampler:	

5. Date:	6. Abatement Location:	7. ☒ PCM (0.8 micron MCE)	8. ☐ TEM (0.45 micron MCE)	9. Type:
09-26-01	APTS Flr 23 22 LO 19 17	Cassette/Filter Manufacture: ____ Lot #: ____	Cassette/Filter Manufacture: ____ Lot #: ____	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 12a. IWA	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	14b. Avg	15. Total Air Vol. (liters)	16. # Fibers/Fields Minus Blank	17. Fiber Conc. F/CC
01				Field Blank								0/100	
02				Field Blank								0/100	
17 03				Center APT	0800	16:00	180	7	7	7	1260	3/100	<0.004
17 04				Center APT	0802	16:03	181	7	7	7	1267	3/100	<0.004
17 05				Center APT	0803	16:04	181	7	7	7	1267	1/100	<0.004
19-06				Center APT	0806	16:07	181	7	7	7	1267	4/100	<0.004
19-07				Center APT	0808	16:09	181	7	7	7	1267	5/100	<0.004
19-08				Center APT	0810	16:11	181	7	7	7	1267	2/100	<0.004

PII

CHAIN OF CUSTODY

	18. Relinquished By:	19. Received By:	20. Date:	21. Time:
I			09/26/01	2120
II				
III				

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

22. Lab Name:	23. Date:	24. Time:
a. Analyzed By: R. Proudina	9.27.01	0.30
b. QC By:		
c. Lab Batch #: 97138		

25. Microscope Make/Serial #: Olympus 125
☐ Nikon Labophot 238913
☐ Nikon Labophot 238917
☐ Nikon Labophot 239079

Analysis Methodology
PCM - NIOSH 7400A
TEM - AHERA

26. ATC Project Manager: Fred B

27. Result To: FAX 1-212-945-3768
Beeper/Phone #'s: ____

28. Comments:

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

NYC-WTC_000123889

NYC 9/11 Public Portal Document

AIR MONITORING DATA AND CHAIN OF CUSTODY FORM

ATC ASSOCIATES INC.

TURNAROUND TIME

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

PROJECT INFORMATION

1. Client:	2. Project Name: APT Sampling	3. Project #:	4. Project Monitor:	4c. Rotameter Number:
Restore Mgmt	2a. Project Address: 225 Reade	3a. Task #	4a. Air Sampler:	FW-01

5. Date:	6. Abatement Location:	7. ☒ PCM (0.8 micron MCE)	8. ☐ TEM (0.45 micron MCE)	9. Type:	
09-26-01	APT PH 23 22 20 19 17.	Cassette/Filter Manufacture: Lot #:	Cassette/Filter Manufacture: Lot #:	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 12a. IWA	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	14b. Avg	15. Total Air Vol. (liters)	16. # Fibers/Fields Minus Blank	17. Fiber Conc. F/CC
				Field Blank									
				Field Blank									
20-09				Center APT	13:15	16:16	181	7	7	7	1267	4/100	<0.004
20-10				Center APT	13:16	16:17	181	7	7	7	1267	4/100	<0.004
20-11				Center APT	13:18	16:14	181	7	7	7	1267	2/100	<0.004
22-12				Center APT	13:20	16:21	181	7	7	7	1267	3/100	<0.004
22-13				Center APT	13:21	16:22	181	7	7	7	1267	1/100	<0.004
23-14				Center APT	13:23	16:24	181	7	7	7	1267	5/100	<0.004

PII

CHAIN OF CUSTODY

	18. Relinquished By:	19. Received By:	20. Date:	21. Time:
I			09/26/01	2140
II				
III				

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

22. Lab Name:	23. Date:	24. Time:
a. Analyzed By: R. Proudkina	9.27.01	00.30
b. QC By:		
c. Lab Batch #: 97138		

25. Microscope Make/Serial #: Olympus 1025
☐ Nikon Labophot 238913
☐ Nikon Labophot 238917
☐ Nikon Labophot 239079

Analysis Methodology
PCM - NIOSH 7400A
TEM - AHERA

26. ATC Project Manager: Fred B

27. Result To: DG #1
Beeper/Phone #'s

28. Comments:

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

NY-1 (1/01)

NYC-WTC_000123890

NYC 9/11 Public Portal Document

VATC ASSOCIATES INC.

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:
Merritt Meridian	2a. Project Address	3a. Task #	4a. Air Sampler:	TWA1

5. Date:	6. Abatement Location:	7. ☒ PCM (0.8 micron MCE)	8. ☐ TEM (0.45 micron MCE)	9. Type:
09-26-01	NPI PH 23 2220 19 17	Cassette/Filter Manufacture _____ Lot # _____	Cassette/Filter Manufacture _____ Lot # _____	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 12a. IWA	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	14b. Avg	15. Total Air Vol. (liters)	16. # Fibers/Fields Minus Blank	17. Fiber Conc. F/CC
				Field Blank									
				Field Blank									
2315	1			Center APT	13:25	16:36	181	7	7	7	1267	2/100	<0.004
PH16				Center APT	13:30	16:31	181	7	7	7	1267	3/100	<0.004

PII

CHAIN OF CUSTODY

	18. Relinquished By:	19. Received By:	20. Date:	21. Time:
I	[signature]	RThog	09/26/01	2140
II				
III				

26. ATC Project Manager: [signature]

27. Result To: PS #1

Beeper/Phone #'s _____

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

22. Lab Name:	23. Date:	24. Time:
a. Analyzed By: R. Arvadina	9.27.01	00.30
b. QC By:		
c. Lab Batch #: 97138		

25. Microscope Make/Serial #: Olympus 1025
☐ Nikon Labophot 238913
☐ Nikon Labophot 238917
☐ Nikon Labophot 239079

Analysis Methodology
PCM - NIOSH 7400A
TEM - AHERA

28. Comments:

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

NYC-WTC_000123891

NYC 9/11 Public Portal Document

VATC ASSOCIATES INC.

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:
RETTLEMGM	2a. Project Address 225 Rector	3a. Task #	4a. Air Sampler: Chuck Johnson	CJ001

5. Date:	6. Abatement Location:	7. ☒ PCM (0.8 micron MCE)	8. ☐ TEM (0.45 micron MCE)	9. Type:	
9-26-01	Various Apt	Cassette/Filter Manufacture _____ Lot # _____	Cassette/Filter Manufacture _____ Lot # _____	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 12a. IWA	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	14b. Avg	15. Total Air Vol. (liters)	16. # Fibers/Fields Minus Blank	17. Fiber Conc. F/CC
01				Field Blank								0/100	
02				Field Blank								0/100	
03		✓			2030	2330	180	10	10	10	1800	1.5/100	<0.003
04		✓			2031	2331	180	10	10	10	1800	2/100	<0.003
05		✓			2033	2333	180	10	10	10	1800	1/100	<0.003
06		✓			2034	2334	180	10	10	10	1800	2/100	<0.003
07		✓			2036	2336	180	10	10	10	1800	3/100	<0.003
08		✓			2037	2337	180	10	10	10	1800	1/100	<0.003

PII

CHAIN OF CUSTODY

18. Relinquished By:	19. Received By:	20. Date:	21. Time:
I [signature]			
II	[signature]	09/27/01	10:00am
III			

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

22. Lab Name:	23. Date:	24. Time:
a. Analyzed By: A. Ebbert	09.27.01	18:00
b. QC By:		
c. Lab Batch #: 97150		

25. Microscope Make/Serial #: Olympus 1028
☐ Nikon Labophot 238913
☐ Nikon Labophot 238917
☐ Nikon Labophot 239079

Analysis Methodology
PCM - NIOSH 7400A
TEM - AHERA

26. ATC Project Manager: J Burkhart

27. Result To: _____
Beeper/Phone #'s _____

28. Comments:

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

NY-1 (1/01)

NYC-WTC_000123892

NYC 9/11 Public Portal Document

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:
Kenith Mgm	2a. Project Address 225 Rector	3a. Task #	4a. Air Sampler: Johnson	CJ001

5. Date:	6. Abatement Location:	7. ☒ PCM (0.8 micron MCE)	8. ☐ TEM (0.45 micron MCE)	9. Type:
9-26 01	Various Fl	Cassette/Filter Manufacture _____ Lot # _____	Cassette/Filter Manufacture _____ Lot # _____	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 12a. IWA	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	14b. Avg	15. Total Air Vol. (liters)	16. # Fibers/Fields Minus Blank	17. Fiber Conc. F/CC
				Field Blank									
				F									
09		✓			2039	2339	180	10	10	10	1800	1.5/100	<0.003
10		✓			2041	2341	180	10	10	10	1800	1/100	<0.003
11		✓			2042	2342	180	10	10	10	1800	1/100	<0.003
12		✓			2043	2343	180	10	10	10	1800	1/100	<0.003
13		✓			2045	2345	180	10	10	10	1800	2/100	<0.003
14		✓			2046	2346	180	10	10	10	1800	2/100	<0.003

PII

CHAIN OF CUSTODY

18. Relinquished By:	19. Received By:	20. Date:	21. Time:
I			
II	KM	09/27/01	10:30 am
III			

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

22. Lab Name:	23. Date:	24. Time:
a. Analyzed By: A. Ellis	09/27/01	16:00
b. QC By:		
c. Lab Batch #: 97150		

25. Microscope Make/Serial #:
☐ Nikon Labophot 238913
☐ Nikon Labophot 238917
☐ Nikon Labophot 239079
Olympus 1025

26. ATC Project Manager:	27. Result To: _____ Beeper/Phone #'s _____	28. Comments:
J Burke Hart		

Analysis Methodology
PCM - NIOSH 7400A
TEM - AHERA

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

NYC-WTC_000123893

NYC 9/11 Public Portal Document

ATC ASSOCIATES INC.

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: Chuck
RELATED MGM	2a. Project Address 225 RECTOR	3a. Task #	4a. Air Sampler: JOHN

4c. Rotameter Number: C5001

5. Date:	6. Abatement Location:	7. ☒ PCM (0.8 micron MCE)	8. ☐ TEM (0.45 micron MCE)	9. Type:
2-26 01	VARIOUS REPT	Cassette/Filter Manufacture _____ Lot # _____	Cassette/Filter Manufacture _____ Lot # _____	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 12a. IWA	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	14b. Avg	15. Total Air Vol. (liters)	16. # Fibers/Fields Minus Blank	17. Fiber Conc. F/CC
				Fie									
				Fie									
15		✓			2050	2350	180	4	4	4	1800	4/100	<0.003
16		✓			2400	300	180	4	4	4	1800	11/100	0.003
17		✓			2401	301	180	4	4	4	1800	3/100	<0.003
18		✓			2402	302	180	4	4	4	1800	59/100	0.016
19		✓			2403	303	180	4	4	4	1800	6/100	<0.003

PII

CHAIN OF CUSTODY

18. Relinquished By:	19. Received By:	20. Date:	21. Time:
I			
II	[illegible]	09/27/01	10:00 AM
III			

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

22. Lab Name:	23. Date:	24. Time:
a. Analyzed By: A. Elbey	09/27/01	1600
b. QC By:		
c. Lab Batch #: 97150		

25. Microscope Make/Serial #: Olympus 10210
☐ Nikon Labophot 238913
☐ Nikon Labophot 238917
☐ Nikon Labophot 239079

Analysis Methodology
PCM - NIOSH 7400A
TEM - AHERA

26. ATC Project Manager:	27. Result To: FAX TO
T Burkhard	Beeper/Phone #: 212 245 3768

28. Comments:

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

NY-1 (1/01)

NYC-WTC_000123894

NYC 9/11 Public Portal Document

ATC ASSOCIATES INC.

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: Chuck	4c. Rotameter Number:
Related MGM	2a. Project Address 225 Rector	3a. Task #	4a. Air Sampler: Johnson	CJ001

5. Date:	6. Abatement Location:	7. ☒ PCM (0.8 micron MCE)	8. ☐ TEM (0.45 micron MCE)	9. Type:	
9-26-01	Various AA	Cassette/Filter Manufacture _____ Lot # _____	Cassette/Filter Manufacture _____ Lot # _____	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 12a. IWA	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	14b. Avg	15. Total Air Vol. (liters)	16. # Fibers/Fields Minus Blank	17. Fiber Conc. F/CC
20				Field Blank								0/100	
21				Field Blank								0/100	
22		/			0910	1410	180	10	10	10	1800	1/100	<0.003
23		/			0911	1411	180	10	10	10	1800	15/100	0.004
24		/			0914	1414	180	10	10	10	1800	14/100	0.004
25		/			0915	1415	180	10	10	10	1800	10/100	0.003
26					0920	1500	180	10	10	10	1800	20/100	0.005

PII

CHAIN OF CUSTODY

18. Relinquished By:	19. Received By:	20. Date:	21. Time:
I			
II	A. Ellent	09.27.01	1030
III			

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

22. Lab Name:	23. Date:	24. Time:
a. Analyzed By:	09/27/01	1630
b. QC By:		
c. Lab Batch #: 97151		

25. Microscope Make/Serial #: Olympus CHP/1005
☐ Nikon Labophot 238913
☐ Nikon Labophot 238917
☐ Nikon Labophot 239079

Analysis Methodology
✓ PCM - NIOSH 7400A
TEM - AHERA

26. ATC Project Manager: J Burckhardt

27. Result To: JBF
Beeper/Phone # 215-975-3768

28. Comments:

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

NYC 9/11 Public Portal Document

AIR MONITORING DATA AND CHAIN OF CUSTODY FORM

ATC ASSOCIATES INC.

Page 1 of _____

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:
KENTROG MGM	2a. Project Address: 225 Rector	3a. Task #	4a. Air Sampler: C Johnson	C5001

5. Date:	6. Abatement Location:	7. ☒ PCM (0.8 micron MCE)	8. ☐ TEM (0.45 micron MCE)	9. Type:
1-25-01	VARIOUS FLRS	Cassette/Filter Manufacture _____ Lot # _____	Cassette/Filter Manufacture _____ Lot # _____	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 12a. IWA	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	14b. Avg	15. Total Air Vol. (liters)	16. # Fibers/Fields Minus Blank	17. Fiber Conc. F/CC
01				Field Blank								0/100	
02				Field Blank								0/100	
03		/		11 FL CENTER of FL RM. PII	0300	400	180	10	10	10	1860	1/100	<0.003
04		/		11 FL CENTER of FL RM. PII	0302	402	180	10	10	10	1860	5/100	<0.003
05		/		11 FL CENTER of FL RM PII	0303	403	180	10	10	10	1860	2/100	<0.003
06		/		22 FL CENTER of FL. PII	0308	408	180	10	10	10	1800	1/100	<0.003
07		/		PH. CENTER of FL PII	0300	600	180	10	10	10	1800	4/100	<0.003
08		/		23 FL CENTER of FL PII	0301	601	180	10	10	10	1800	1/100	<0.003

CHAIN OF CUSTODY

	18. Relinquished By:	19. Received By:	20. Date:	21. Time:
I	[signature]	[signature]	01/26/01	1615
II				
III				

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

22. Lab Name:	23. Date:	24. Time:
a. Analyzed By: [signature]	01/26/01	1910
b. QC By:		
c. Lab Batch #: 97121		

25. Microscope Make/Serial #: Olympus 5048/1015
☐ Nikon Labophot 238913
☐ Nikon Labophot 238917
☐ Nikon Labophot 239079

Analysis Methodology
√ PCM - NIOSH 7400A
TEM - AHERA

26. ATC Project Manager: J Burchhard

27. Result To: Kentrog
Beeper/Phone #: 212-945 3768

28. Comments:

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

NY-1 (1/01)

NYC-WTC_000123895

NYC 9/11 Public Portal Document

AIR MONITORING DATA AND CHAIN OF CUSTODY FORM

Page 4 of _____

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:
RELATED MGM.	2a. Project Address: 225 RECTOR	3a. Task #	4a. Air Sampler: C JOHNSON	CJ001

5. Date:	6. Abatement Location:	7. ☒ PCM (0.8 micron MCE)	8. ☐ TEM (0.45 micron MCE)	9. Type:
9-25-01	VARIOUS AMPS	Cassette/Filter Manufacture _____ Lot # _____	Cassette/Filter Manufacture _____ Lot # _____	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: 12a. IWA	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	14b. Avg	15. Total Air Vol. (liters)	16. # Fibers/Fields Minus Blank	17. Fiber Conc. F/CC
				Field Blank									
				Field Blank									
09		/		2 FL CENTER PII 7L	0330	630	180	10	10	10	1800	1/100	<0.003
10		/		2 FL CENTER PII 7L	0331	631	180	10	10	10	1800	10/100	0.003
11		/		4 FL CENTER PII 7L	0332	632	180	10	10	10	1800	1/100	<0.003
12		/		4 FL CENTER PII 7L	0334	634	180	10	10	10	1800	1/100	<0.003
13		/		2 FL CENTER PII 7L		VOID							-

CHAIN OF CUSTODY

	18. Relinquished By:	19. Received By:	20. Date:	21. Time:
I	[signature]	[signature]	09/26/01	1615
II				
III				

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

22. Lab Name:	23. Date:	24. Time:
a. Analyzed By: [signature]	09/26/01	1910
b. QC By:		
c. Lab Batch #: 97121		

25. Microscope Make/Serial #:
☐ Nikon Labophot 238913
☐ Nikon Labophot 238917
☐ Nikon Labophot 239079
☐ Olympus CH30 [illegible]

Analysis Methodology
/ PCM - NIOSH 7400A
TEM - AHERA

26. ATC Project Manager: J Bernstein

27. Result To: _____
Beeper/Phone #'s _____

28. Comments:

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

NY-1 (1/01)

NYC-WTC_000123896

NYC-WTC_000123897

NYC 9/11 Public Portal Document

ASSOCIATES INC.

CHAIN OF CUSTODY FORM

☐ 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:
Realisted Mgt	APT Sampling.			FW-01
	2a. Project Address: 225 Rector Pl	3a. Task #	4a. Air Sampler:	

5. Date:	6. Abatement Location:	7. ☒ PCM (0.8 micron MCE)	8. ☐ TEM (0.45 micron MCE)	9. Type:
09-25-01	APTS 1D 2E 2G 4M	Cassette/Filter Manufacture: _____ Lot #: _____	Cassette/Filter Manufacture: _____ Lot #: _____	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 12a. IWA	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	14b. Avg	15. Total Air Vol. (liters)	16. # Fibers/Fields Minus Blank	17. Fiber Conc. F/CC
01				Field Blank								0/100	
02				Field Blank								0/100	
03				Center APT	17:00	19:00	180	7	7	7	1260	1/100	<0.004
04				Center Apt	17:03	19:04	181	7	7	7	1267	2/100	<0.004
05				Centes APT	17:05	19:06	181	7	7	7	1267	1/100	<0.004
06				Center APT	17:06	19:07	181	7	7	7	1267	1.5/100	<0.004

PII

CHAIN OF CUSTODY

18. Relinquished By:	19. Received By:	20. Date:	21. Time:
I		09/25/01	21:15
II			
III			

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

22. Lab Name:	23. Date:	24. Time:
a. Analyzed By:	09.26.01	8:00 am
b. QC By:		
c. Lab Batch #: 9716		

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

Analysis Methodology
PCM - NIOSH 7400A
TEM - AHERA

26. ATC Project Manager:	27. Result To: FAX 1-212-945-3768 Beeper/Phone #'s: _____	28. Comments:
Fred B		

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

NY-1 (1/01)

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

NY-1 (1/01)

NYC-WTC_000123898

NYC 9/11 Public Portal Document

VATC ASSOCIATES INC.

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:
Realnated Mgt	APT'S Samplers			FW-01
	2a. Project Address: 225 Rector PL	3a. Task #	4a. Air Sampler:	

5. Date:	6. Abatement Location:	7. ☒ PCM (0.8 micron MCE)	8. ☐ TEM (0.45 micron MCE)	9. Type:
09-25-01	225 10FL 6ELS APTS BR 3BTS	Cassette/Filter Manufacture: _____ Lot #: _____	Cassette/Filter Manufacture: _____ Lot #: _____	a. ☐ Background b. ☐ Pre-Abate c. ☐ Abatement d. ☐ Post-Abate e. ☐ OSHA f. ☐ Environmental ☒ Ambient h. ☐ Other

DAILY AIR SAMPLE RECORD

10. Sample I.D. Number	11. Pump Number	12. Sample Location: 12a. IWA	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	14b. Avg	15. Total Air Vol. (liters)	16. # Fibers/Fields Minus Blank	17. Fiber Conc. F/CC
01				Field Blank								0/100	
02				Field Blank								0/100	
22-03				Center Apt	14:02	17:02	180	7	7	7	1260	4/100	< 0.004
10-04				Center Apt	14:04	17:05	181	7	7	7	1267	3/100	< 0.004
6-05				Center Apt	14:06	17:07	181	7	7	7	1267	3/100	< 0.004
6-06				Center Apt	14:09	17:09	180	7	7	7	1260	5/100	< 0.004
5-07				Center Apt	14:10	17:12	181	7	7	7	1267	1/100	< 0.004
3-08				Center Apt	14:13	17:14	181	7	7	7	1267	2/100	< 0.004

PII

CHAIN OF CUSTODY

	18. Relinquished By:	19. Received By:	20. Date:	21. Time:
I		Otog	09/25/01	21.15
II				
III				

26. ATC Project Manager:

27. Results To: FAX To 1(212) 945-3768
Beeper/Phone #'s _____

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

22. Lab Name:	23. Date:	24. Time:
a. Analyzed By: R. Drouzina	9.26.00	00.30
b. QC By:		
c. Lab Batch #: 97114		

25. Microscope Make/Serial #: Olympus 2025
☐ Nikon Labophot 238913
☐ Nikon Labophot 238917
☐ Nikon Labophot 239079

Analysis Methodology
PCM - NIOSH 7400A
TEM - AHERA

28. Comments:

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

NYC-WTC_000123899

NYC 9/11 Public Portal Document

ATC ASSOCIATES INC.

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: APT Samplings	3. Project #:	4. Project Monitor:	4c. Rotameter Number:
Prudential Mgmt	2a. Project Address: 225 Rector PL	3a. Task #:	4a. Air Sampler:	RW-01

5. Date:	6. Abatement Location:	7. ☒ PCM (0.8 micron MCE)	8. ☐ TEM (0.45 micron MCE)	9. Type:
09-25-01	APT 22J 10K 6EVS 5R 3B+S	Cassette/Filter Manufacture: _____ Lot #: _____	Cassette/Filter Manufacture: _____ Lot #: _____	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: 12a. IWA	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	14b. Avg	15. Total Air Vol. (liters)	16. # Fibers/Fields Minus Blank	17. Fiber Conc. F/CC
				Field Blank									
				Field Blank									
3-09				Crawler APT	14:15	17:16	181	7	7	7	1267	3/100	<0.004

PII

CHAIN OF CUSTODY

18. Relinquished By:	19. Received By:	20. Date:	21. Time:
I		09/25/01	2115
II			
III			

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

22. Lab Name:	23. Date:	24. Time:
a. Analyzed By: R. Broudina	9.26.01	00:30
b. QC By:		
c. Lab Batch #: 97114		

25. Microscope Make/Serial #: Olympus 1005
☐ Nikon Labophot 238913
☐ Nikon Labophot 238917
☐ Nikon Labophot 239079

Analysis Methodology
PCM - NIOSH 7400A
TEM - AHERA

26. ATC Project Manager:

27. Result To: Pg #1
Beeper/Phone #'s _____

28. Comments:

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

NY-1 (1/01)

WHITE - File YELLOW - Client/Report PINK - Lab GOLDENROD - Field NY-1 (1/01)

NYC 9/11 Public Portal Document

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:
Related	2a. Project Address 225 Rector	3a. Task #	4a. Air Sampler: C Johnson	CJ001

5. Date:	6. Abatement Location:	7. ☒ PCM (0.8 micron MCE)	8. ☐ TEM (0.45 micron MCE)	9. Type:
9/24/01	Parking Garage	Cassette/Filter Manufacture ____ Lot # ____	Cassette/Filter Manufacture ____ Lot # ____	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 12a. IWA	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	14b. Avg	15. Total Air Vol. (liters)	16. # Fibers/Fields Minus Blank	17. Fiber Conc. F/CC
01				Field Blank								0/100	
02				Field Blank								0/100	
03		/		INSIDE PARKING GARAGE	2300	400	360	6	6	6	1800	3/100	<0.003
04		/		INSIDE PARKING GARAGE	2301	401	360	6	6	6	1800	2/100	<0.003
05		/		INSIDE PARKING GARAGE	2302	402	360	6	6	6	1800	6/100	<0.003

CHAIN OF CUSTODY

	18. Relinquished By:	19. Received By:	20. Date:	21. Time:
I			9/25/01	1130
II				
III				

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

22. Lab Name:	23. Date:	24. Time:
a. Analyzed By:	9/25/01	13:45
b. QC By:		
c. Lab Batch #: 97103		

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

Analysis Methodology
PCM - NIOSH 7400A
TEM - AHERA

26. ATC Project Manager:	27. Result To:	28. Comments:
J Buckhurst	Beeper/Phone #'s ____	

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

NY-1 (1/01)

NYC-WTC_000123900

NYC 9/11 Public Portal Document

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 / 2a. Project Address	3. Project #	4. Project Monitor: / 4a. Air Sampler:	4c. Rotameter Number:
RELATED	2a. 225 Rector Pl.			FW-01

5. Date:	6. Abatement Location:	7. ☒ PCM (0.8 micron MCE) Cassette/Filter Manufacture / Lot #	8. ☐ PCM (0.45 micron MCE) Cassette/Filter Manufacture / Lot #	9. Type:
09-23-01	W/n Hallway			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: 12a. IWA	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	14b. Avg	15 Total Air Vol. (liters)	16. # Fibers/Fields Minus Blank	17. Fiber Conc. F/CC
01				Field Blank								0/100	
02				Field Blank								0/100	
PH-03				North END of Hallway	14:30	17:30	120	15	15	15	1800	5/100	<0.003
PH-04				EAST END of Hallway	14:31	17:32	120	15	15	15	1800	13/100	0.004
23-05				NORTH END of Hallway	14:33	17:33	120	15	15	15	1800	9/100	<0.003
23-06				EAST END of Hallway	14:34	17:34	120	15	15	15	1800	11/100	0.003
22-07				NORTH END of Hallway	14:36	17:36	120	15	15	15	1800	2/100	<0.003
22-08				EAST END of Hallway	14:37	17:37	120	15	15	15	1800	13/100	0.004

CHAIN OF CUSTODY

18. Relinquished By:	19. Received By:	20. Date:	21. Time:
I	MCL	9/23/01	2100
II			
III			

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

22. Lab Name:	23. Date:	24. Time:
a. Analyzed By: MCL	9/24/01	0430
b. QC By:		
c. Lab Batch #: 97083		

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

Analysis Methodology
PCM - NIOSH 7400A
TEM - AHERA

26. ATC Project Manager:

27. Result To: _____
Beeper/Phone #'s _____

28. Comments:

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

NY-1 (3/99)

NYC-WTC_000123901

NYC 9/11 Public Portal Document

AIR MONITORING DATA AND CHAIN OF CUSTODY FORM

Page 7 of _____

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

PROJECT INFORMATION

1. Client:	2. Project Name / 2a. Project Address	3. Project #	4. Project Monitor: / 4a. Air Sampler:	4c. Rotameter Number:
Revised	225 Rector Pl			FW-01

5. Date:	6. Abatement Location:	7. ☑ PCM (0.8 micron MCE) Cassette/Filter Manufacture / Lot #	8. ☐ PCM (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
09-23-01	Hallways			

DAILY AIR SAMPLE RECORD

10. Sample I.D. Number	11. Pump Number	12. Sample Location: 12a. IWA	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	14b. Avg	15. Total Air Vol (liters)	16. # Fibers/Fields Minus Blank	17. Fiber Conc. F/CC
				Field Blank									
				Field Blank									
21-09				North End of Hallway	14:39	17:39	120	15	15	15	1800	9/100	<0.003
21-10				East End of Hallway	14:40	17:40	120	15	15	15	1800	6/100	<0.003
20:-11				North End of Hallway	14:42	17:42	120	15	15	15	1800	2/100	<0.003
20-12				East End of Hallway	14:43	17:43	120	15	15	15	1800	25/100	0.007
19-13				North End of Hallway	14:45	17:45	120	15	15	15	1800	9/100	<0.003
19-14				East End of Hallway	14:46	17:46	120	15	15	15	1800	4/100	<0.003

CHAIN OF CUSTODY

18. Relinquished By:	19. Received By:	20. Date:	21. Time:
I		9/23/01	2100
II			
III			

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

22. Lab Name:	23. Date:	24. Time:
a. Analyzed By:	9/24/01	0430
b. QC By:		
c. Lab Batch #: 97083		

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

Analysis Methodology
(PCM - NIOSH 7400A)
TEM - AHERA

26. ATC Project Manager: Fred B.

27. Result To: _____
Beeper/Phone #'s _____

28. Comments:

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

NY-1 (3/99)

NYC-WTC_000123902

NYC-WTC_000123903

NYC 9/11 Public Portal Document

VATC ASSOCIATES INC.

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 / 2a. Project Address	3. Project #	4. Project Monitor: / 4a. Air Sampler:	4c. Rotameter Number:
REUTERS	2a. 225 Rector Pl			FW-01

5. Date:	6 Abatement Location:	7. ☒ PCM (0.8 micron MCE) Cassette/Filter Manufacture / Lot #	8. ☐ PCM (0.45 micron MCE) Cassette/Filter Manufacture / Lot #	9. Type:
09-23-01	Hallway			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 12a. IWA	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	14b. Avg	15 Total Air Vol (liters)	16. # Fibers/Fields Minus Blank	17. Fiber Conc. F/CC
				Field Blank									
				Field Blank									
18-15				North End of Hallway	14:47	17:47	120	15	15	15	1800	11/100	<0.003
18-16				East End of Hallway	14:48	17:48	120	15	15	15	1800	3/100	<0.003
17-17				North End of Hallway	14:50	17:50	120	15	15	15	1800	18/100	0.005
17-18				East End of Hallway	14:51	17:51	120	15	15	15	1800	29/100	0.008
16-19				North End of Hallway	14:53	17:53	120	15	15	15	1800	29/100	0.008
16-20				East End of Hallway	14:54	17:54	120	15	15	15	1800	20/100	0.005

CHAIN OF CUSTODY

	18. Relinquished By:	19. Received By:	20. Date:	21. Time:
I			9/23/01	2100
II				
III				

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

22. Lab Name:	23. Date:	24. Time:
a. Analyzed By:	9/24/01	0430
b. QC By:		
c. Lab Batch #: 97083		

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

Analysis Methodology
PCM - NIOSH 7400A
TEM - AHERA

26. ATC Project Manager:	27. Result To: / Beeper/Phone #'s	28. Comments:

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

NY-1 (3/99)

NYC-WTC_000123904

NYC 9/11 Public Portal Document

VATC ASSOCIATES INC

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 / 2a. Project Address	3. Project #	4. Project Monitor: / 4a. Air Sampler:	4c. Rotameter Number:
KEYSPAN	225 Rector PL		Michael Addolorato	FW-01

5. Date:	6. Abatement Location:	7. ☒ PCM (0.8 micron MCE) Cassette/Filter Manufacture / Lot #	8. ☐ PCM (0.45 micron MCE) Cassette/Filter Manufacture / Lot #	9. Type:
09-23-01	Hallway			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: 12a. IWA	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	14b. Avg	15. Total Air Vol. (liters)	16. # Fibers/Fields Minus Blank	17. Fiber Conc. F/CC
				Field Blank									
21				Field Blank								0/100	—
15-22				North End of Hallway	14:55	17:55	120	15	15	15	1800	OVERLOADED	
15-23				East End of Hallway	14:56	17:56	120	15	15	15	1800	24/100	0.007
14-24				North End of Hallway	14:58	17:58	120	15	15	15	1800	5/100	<0.003
14-25				East End of Hallway	14:59	17:59	120	15	15	15	1800	29/100	0.008
1226				North End of Hallway	15:02	18:02	120	15	15	15	1800	33/100	0.009
12-27				East End of Hallway	15:04	18:04	120	15	15	15	1800	34/100	0.009

CHAIN OF CUSTODY

	18. Relinquished By:	19. Received By:	20. Date:	21. Time:
I			9/23/01	2100
II				
III				

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

22. Lab Name:	23. Date:	24. Time:
a. Analyzed By: E.A. Co. L	9/24/01	0430
b. QC By:		
c. Lab Batch #: 97083		

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

Analysis Methodology
PCM - NIOSH 7400A
TEM - AHERA

26. ATC Project Manager: Fred B

27. Result To: _____
Beeper/Phone #'s _____

28. Comments:

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

NYC-WTC_000123905

NYC 9/11 Public Portal Document

VATC ASSOCIATES INC.

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 / 2a. Project Address	3. Project #	4. Project Monitor: / 4a. Air Sampler:	4c. Rotameter Number:
RELATED	2a. 225 Rector PL		4. Michael / 4a. Walter	FW-01

5. Date:	6. Abatement Location:	7. ☒ PCM (0.8 micron MCE) Cassette/Filter Manufacture / Lot #	8. ☐ PCM (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
09-23-01	Hallway			

DAILY AIR SAMPLE RECORD

10. Sample I.D. Number	11. Pump Number	12. Sample Location: 12a. IWA	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	14b. Avg	15. Total Air Vol (liters)	16. # Fibers/Fields Minus Blank	17. Fiber Conc. F/CC
				Field Blank									
				Field Blank									
11-28				North End of Hallway	17:30	19:30	120	15	15	15	1800	20/100	0.005
11-29				East End of Hallway	17:31	19:31	120	15	15	15	1800	3/100	<0.003
10-30				North End of Hallway	17:33	19:33	120	15	15	15	1800	27/100	0.007
10-31				East End of Hallway	17:34	19:34	120	15	15	15	1800	20/100	0.005
9-32				North End of Hallway	17:35	19:35	120	15	15	15	1800	3/100	<0.003
9-33				East End of Hallway	17:36	19:36	120	15	15	15	1800	34/100	0.009

CHAIN OF CUSTODY

	18. Relinquished By:	19. Received By:	20. Date:	21. Time:
I			9/23/01	2100
II				
III				

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

22. Lab Name:	23. Date:	24. Time:
a. Analyzed By:	9/24/01	0430
b. QC By:		
c. Lab Batch #: 97083		

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

Analysis Methodology
PCM - NIOSH 7400A
TEM - AHERA

26. ATC Project Manager:

27. Result To: _____
Beeper/Phone #'s _____

28. Comments:

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

NY 1 (3/99)

NYC-WTC_000123906

NYC 9/11 Public Portal Document

VATC ASSOCIATES INC.

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 / 2a. Project Address	3. Project #	4. Project Monitor / 4a. Air Sampler:	4c. Rotameter Number:
RELATED	2a. 225 Rector Pl			FW-01

5. Date:	6. Abatement Location:	7. ☒ PCM (0.8 micron MCE) Cassette/Filter Manufacture / Lot #	8. ☐ PCM (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
09-2301	Hallway			

DAILY AIR SAMPLE RECORD

10. Sample I.D. Number	11. Pump Number	12. Sample Location 12a. IWA	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	14b. Avg	15. Total Air Vol (liters)	16. # Fibers/Fields Minus Blank	17. Fiber Conc. F/CC
				Field Blank									
				Field Blank									
8-34				North End of Hallway	17:36	19:36	120	15	15	15	1800	20/100	0.005
8-35				East End of Hallway	17:37	19:37	120	15	15	15	1800	3/100	<0.003
7-36				North End of Hallway	17:38	19:38	120	15	15	15	1800	2/100	<0.003
7-37				East End of Hallway	17:39	19:39	120	15	15	15	1800	4/100	<0.003
6-38				North End of Hallway	17:40	19:40	120	15	15	15	1800	4/100	<0.003
6-39				East End of Hallway	17:41	19:41	120	15	15	15	1800	2/100	<0.003

CHAIN OF CUSTODY

	18. Relinquished By:	19. Received By:	20. Date:	21. Time:
I		ACL	9/23/01	2100
II				
III				

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

22. Lab Name:	23. Date:	24. Time:
a. Analyzed By: ACL	9/24/01	0430
b. QC By:		
c. Lab Batch #: 97083		

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

Analysis Methodology
(PCM - NIOSH 7400A)
TEM - AHERA

26. ATC Project Manager: Fred B

27. Result To: _____
Beeper/Phone #'s _____

28. Comments:

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

NY-1 (3/99)

NYC-WTC_000123907

NYC 9/11 Public Portal Document

VATC ASSOCIATES INC.

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 / 2a. Project Address	3. Project #	4. Project Monitor: / 4a. Air Sampler:	4c. Rotameter Number:
RELATED	2a. 225 Rector Pl		4. Michael / 4a. Fred	FW-01

5. Date:	6. Abatement Location:	7. ☒ PCM (0.8 micron MCE) Cassette/Filter Manufacture / Lot #	8. ☐ PCM (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
09-23-01	Hallway			

DAILY AIR SAMPLE RECORD

10. Sample I.D. Number	11. Pump Number	12. Sample Location 12a. IWA	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	14b Avg	15 Total Air Vol (liters)	16. # Fibers/Fields Minus Blank	17. Fiber Conc. F/CC
				Field Blank									
				Field Blank									
5-40				North End of Hallway	17:42	19:42	120	15	15	15	1800	6/100	<0.003
5-41				East End of Hallway	17:43	19:43	120	15	15	15	1800	2/100	<0.003
4-42				North End of Hallway	17:44	19:44	120	15	15	15	1800	2/100	<0.003
4-43				East End of Hallway	17:45	19:45	120	15	15	15	1800	29/100	0.008
3-44				North End of Hallway	17:46	19:46	120	15	15	15	1800	33/100	0.009
3-45				East End of Hallway	17:47	19:47	120	15	15	15	1800	12/100	0.003

CHAIN OF CUSTODY

	18. Relinquished By:	19. Received By:	20. Date:	21. Time:
I	Michael	MCL	9/23/01	2100
II				
III				

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

22. Lab Name:	23. Date:	24. Time:
a. Analyzed By: MCL	9/24/01	0430
b. QC By:		
c. Lab Batch #: 97083		

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

Analysis Methodology
PCM - NIOSH 7400A
TEM - AHERA

26. ATC Project Manager: Fred B

27. Result To: _____
Beeper/Phone #'s _____

28. Comments:

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

NYC-WTC_000123908

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VATC ASSOCIATES INC.

AIR MONITORING DATA AND CHAIN OF CUSTODY FORM

Page 1 of _____

TURNAROUND TIME

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

PROJECT INFORMATION

1. Client:	2. Project Name / 2a. Project Address	3. Project #	4. Project Monitor: / 4a. Air Sampler:	4c. Rotameter Number:
RELATOR	2a. 225 Rector Pl			TW-01

5. Date:	6. Abatement Location:	7. ☒ PCM (0.8 micron MCE) Cassette/Filter Manufacture / Lot #	8. ☐ PCM (0.45 micron MCE) Cassette/Filter Manufacture / Lot #	9. Type:
09-23-01	Hallway			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 12a. IWA	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	14b. Avg	15. Total Air Vol (liters)	16. # Fibers/Fields Minus Blank	17. Fiber Conc. F/CC
				Field Blank									
FB-48				Field Blank								0/100	—
2-46				North End of Hallway	17:48	19:48	120	15	15	15	1800	OVERLOADED	
2-47				EAST End of Hallway	17:50	19:50	120	15	15	15	1800	3/100	<0.003
1-49				North End of Hallway	17:51	19:51	120	15	15	15	1800	39/100	0.01
1-50				EAST End of Hallway	17:52	19:52	120	15	15	15	1800	40/100	0.01

CHAIN OF CUSTODY

	18. Relinquished By:	19. Received By:	20. Date:	21. Time:
I		ACL	9/27/01	2100
II				
III				

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

22. Lab Name:	23. Date:	24. Time:
a. Analyzed By: ACL	9/24/01	04:30
b. QC By:		
c. Lab Batch #: 97083		

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

Analysis Methodology
PCM - NIOSH 7400A
TEM - AHERA

26. ATC Project Manager: Fred B

27. Result To: _____
Beeper/Phone #'s _____

28. Comments:

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

NY-1 (3/99)

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ATTACHMENT 2
AIR SAMPLING DATA & CHAIN OF CUSTODY FORM,

TEM AMBIENT AIR SAMPLES

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NYC-WTC_000123909

NYC 9/11 Public Portal Document

ATC ASSOCIATES INC.

Project Memorandum

Subject: 225 Rector Place

Re: Ambient Air Sampling

To: Peter Hoyle
Related Management

From: Fred Burkhardt

Date: December 3, 2001

On November 28, 2001, ATC collected one ambient air sample in each of the apartments listed below, and one sample in five common hallways of the building, to ascertain the presence or absence of airborne asbestos. 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.

Apartments sampled are identified in the following table.

Floor	Apartments	Floor	Apartments
Penthouse	PII	11	PII
23		10	PII Hallway
22		9	
21	PII	8	
20	PII Hallway	7	PII
19	PII	6	
18		5	PII Hallway
17		4	PII
16	PII	3	
15	Hallway	2	
14	PII	1	PII Lobby
12		Basement	

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/mm^2) 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 project.

Based upon analytical sample results for all samples recording levels 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. If you have any questions or require additional explaination of the information presented please do not hesitate to call me at 212-353-8280.

Thank You.

NYC 9/11 Public Portal Document

ATC ASSOCIATES INC.

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

24 H/A 5/19

November 30, 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. 5994:

Client: 225 Rector Place
Project Name: 225 Rector Place, NY, NY
Location: Various Sites
Samples received: 11/29/01

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. The results are as indicated on the attached document. MMI TEM cassettes, Lot No. 00265916, 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 the post-abatement inside samples pass, the response action may be considered to have been completed. The analyses were supervised by Dr. Michael A. Gorycki, Director of Electron Microscopy.

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

Please contact me regarding any questions relating to these materials.

Very truly yours,

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

NYC 9/11 Public Portal Document

ATC Associates

104 East 25 Street, New York, NY 10010

Phone: (212) 353-8280 Fax: (212) 353-8306

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

Fax: (212) 353-8306 **Phone:** (212) 353-8280

Project: 225 Rector Pl.
225 Rector Pl. NY, NY

Received: 11/29/01 7:00:00 AM

ATC Group #: 5994

Analysis Date: 11/30/01

Asbestos Fiber Analysis by Transmission Electron Microscopy (TEM) Performed by EPA 40 CFR Part 763 Final Rule (AHERA)

Sample	Volume	Area Analyzed	Non Asb	Asbestos Type(s)	Structures 0.5µ-5	Structures 5µ	Analytical Sensitivity (S/cc)	Asbestos Concentration (S/mm²)	Asbestos Concentration (S/cc)	Notes
1 5994 -1	1300.00	0.0674	0	None Detected	0	0	0.0044	<14.83	<0.0044	
2 5994 -2	1300.00	0.0674	0	None Detected	0	0	0.0044	<14.83	<0.0044	
3 5994 -3	1300.00	0.0674	0	None Detected	0	0	0.0044	<14.83	<0.0044	
4 5994 -4	1300.00	0.0674	0	None Detected	0	0	0.0044	<14.83	<0.0044	
5 5994 -5	1300.00	0.0674	0	None Detected	0	0	0.0044	<14.83	<0.0044	
6 5994 -6	1300.00	0.0674	0	None Detected	0	0	0.0044	<14.83	<0.0044	
7 5994 -7	1300.00	0.0674	0	None Detected	0	0	0.0044	<14.83	<0.0044	
8 5994 -8	1300.00	0.0674	0	None Detected	0	0	0.0044	<14.83	<0.0044	

MARK PEYSAKHOV
Analyzed by:

MICHAEL A. GORYCKI, Ph.D.
Approved by:

Disclaimer: The laboratory is not responsible for data reported in structures/cc, which is dependent on volume collected by non-laboratory personnel. This lab is only responsible for data reported in structures/mm². This report may not be reproduced, except in full, without written approval by ATC Associates Inc. This report may not be used to claim product endorsement by NVLAP or any other agency of the U.S. Government. This reports relates only to the samples reported above. Quality control data (including 95% confidence limits and laboratory and analysis' accuracy and precision) is available upon request.

Accredited for NVLAP PLM/TEM #101187-0, NY State ELAP #10879

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NYC 9/11 Public Portal Document

Attn: Mr. Fred Burkhardt
ATC Associates Inc
104 East 25th Street
New York NY 10010
Fax: (212) 353-8306 **Phone:** (212) 353-8280

Project: 225 Rector Pl.
225 Rector Pl. NY, NY

Received: 11/29/01 7:00:00 AM
ATC Group #: 5994
Analysis Date: 11/30/01

Asbestos Fiber Analysis by Transmission Electron Microscopy (TEM) Performed by EPA 40 CFR Part 763 Final Rule (AHERA)

Sample	Volume	Area Analyzed	Non Asb	Asbestos Type(s)	Structures 0.5µ-5	Structures 5µ	Analytical Sensitivity (S/cc)	Asbestos Concentration (S/mm²)	Asbestos Concentration (S/cc)	Notes
9 5994 -9	1300.00	0.0674	0	None Detected	0	0	0.0044	<14.83	<0.0044	
10 5994 -10	1300.00	0.0674	0	None Detected	0	0	0.0044	<14.83	<0.0044	
11 5994 -11	1300.00	0.0674	0	None Detected	0	0	0.0044	<14.83	<0.0044	
12 5994 -12	1300.00	0.0674	0	None Detected	0	0	0.0044	<14.83	<0.0044	
13 5994 -13	1300.00	0.0674	0	None Detected	0	0	0.0044	<14.83	<0.0044	
14 5994 -14	1300.00	0.0674	0	CHRYSOTILE	0	1	0.0044	14.83	0.0044	
15 5994 -15	1300.00	0.0674	0	None Detected	0	0	0.0044	<14.83	<0.0044	
16 5994 -16	1300.00	0.0674	0	None Detected	0	0	0.0044	<14.83	<0.0044	
17 5994 -17	1300.00	0.0674	0	None Detected	0	0	0.0044	<14.83	<0.0044	
18 5994 -18	1300.00	0.0674	0	None Detected	0	0	0.0044	<14.83	<0.0044	

MARK PEYSAKHOV
Analyzed by:

MICHAEL A. GORYCKI, Ph.D.
Approved by:

Disclaimer: The laboratory is not responsible for data reported in structures/cc, which is dependent on volume collected by non-laboratory personnel. This lab is only responsible for data reported in structures/mm². This report may not be reproduced, except in full, without written approval by ATC Associates Inc. This report may not be used to claim product endorsement by NVLAP or any other agency of the U.S. Government. This reports relates only to the samples reported above. Quality control data (including 95% confidence limits and laboratory and analysis' accuracy and precision) is available upon request.

Accredited for NVLAP PLM/TEM #101187-0, NY State ELAP #10879

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NYC-WTC_000123913

NYC 9/11 Public Portal Document

Attn: Mr. Fred Burkhardt
ATC Associates Inc
104 East 25th Street
New York NY 10010
Fax: (212) 353-8306 **Phone:** (212) 353-8280

Project: 225 Rector Pl.
225 Rector Pl. NY, NY

Received: 11/29/01 7:00:00 AM
ATC Group #: 5994
Analysis Date: 11/30/01

Asbestos Fiber Analysis by Transmission Electron Microscopy (TEM) Performed by EPA 40 CFR Part 763 Final Rule (AHERA)

Sample	Volume	Area Analyzed	Non Asb	Asbestos Type(s)	Structures 0.5µ-5	Structures 5µ	Analytical Sensitivity (S/cc)	Asbestos Concentration (S/mm²)	Asbestos Concentration (S/cc)	Notes
19 5994 -19	1300.00	0.0674	0	None Detected	0	0	0.0044	<14.83	<0.0044	
20 5994 -20	1300.00	0.0674	0	None Detected	0	0	0.0044	<14.83	<0.0044	
21 5994 -21	1300.00	0.0674	0	None Detected	0	0	0.0044	<14.83	<0.0044	
22 5994 -22	1300.00	0.0674	0	None Detected	0	0	0.0044	<14.83	<0.0044	
23 5994 -23	1300.00	0.0674	0	None Detected	0	0	0.0044	<14.83	<0.0044	
24 5994 -24	1300.00	0.0674	0	None Detected	0	0	0.0044	<14.83	<0.0044	

MARK PEYSAKHOV
Analyzed by:

MICHAEL A. GORYCKI, Ph.D.
Approved by:

Disclaimer: The laboratory is not responsible for data reported in structures/cc, which is dependent on volume collected by non-laboratory personnel. This lab is only responsible for data reported in structures/mm². This report may not be reproduced, except in full, without written approval by ATC Associates Inc. This report may not be used to claim product endorsement by NVLAP or any other agency of the U.S. Government. This reports relates only to the samples reported above. Quality control data (including 95% confidence limits and laboratory and analysis' accuracy and precision) is available upon request.

Accredited for NVLAP PLM/TEM #101187-0, NY State ELAP #10879

NYC 9/11 Public Portal Document

TEM Asbestos (air) Count Sheet

Client Name:	ATC	**Volume (liters):**	1300
Lab Group #:	5994	**Filter Type / Filter Area:**	MCE 385 mm²
Lab Sample #:	1	**Grid Opening Size:**	0.01124
Client Sample #:	1	**Area Examined:**	0.06744 mm²
GRID BOX:	SPE	**Magnification:**	20,000
GRID ID:	3 #3	**Accelerating Voltage:**	100 KeV
# Grid Openings:	6	**Analysis Date:**	11/29/01

Analysis Performed By: MARK PEYSAKHOV

GO. No	GO. Coord	Structure No	Structure Type F	B	C	M	Length >=05 µ <5µ	Length >=5µ	ID of Structure N or √ Chrys	Amphibole	Nonasb	Ambig/ND	EDS (Nonadb Elements)
1	D2	NSD											
2	E2	— "											
3	B2	— "											
4	C1	— "											
5	A1	— "											
6	A-1	— "											

Struct = > 0.5µ > 5:1 Aspect Ratio

√= Positive diffraction pattern properties conforming to laboratory identification criteria observed

√= EDS spectrum conforming to laboratory identification criteria observed

F = Single Fiber
B = Bundle (<3 fibers <1 fiber diameter apart
C = Cluster (>3 Intersections)
M = Matrix
NSD = No Structures Detected

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

AMPHIBOLES
Amosite
Crocidolite
Anthophyllite
Tremolite
Actinolite

Totals

	F	B	C	M	>5µ
Chrysotile					
Amphibole					
Ambiguous					
Non-Asbestos					
Non-Identified					

NYC 9/11 Public Portal Document

TEM Asbestos (air) Count Sheet

Client Name:	ATC	**Volume (liters):**	1300
Lab Group #:	5994	**Filter Type / Filter Area:**	MCE 385 mm²
Lab Sample #:	2	**Grid Opening Size:**	0.01124
Client Sample #:	2	**Area Examined:**	0.06744 mm²
GRID BOX:	6FE	**Magnification:**	20,000
GRID ID:	3CD	**Accelerating Voltage:**	100 KeV
# Grid Openings:	6	**Analysis Date:**	11/29/01

Analysis Performed By: MARK PEYSAKHOV

GO.	Structure	Structure Type				Length		ID of Structure N or √				EDS
No Coord	No	F	B	C	M	>=05 µ <5µ	>=5µ	Chrys	Amphibole	Nonasb	Ambig/ND	(Nonadb Elements)
A07	1-530											
2 E7	-1											
3 P7	-1											
4 G9	-1											
5 J9	-1											
6 R9	-1											

Struct = > 0.5µ > 5:1 Aspect Ratio

√= Positive diffraction pattern properties conforming to laboratory identification criteria observed

√= EDS spectrum conforming to laboratory identification criteria observed

F = Single Fiber
B = Bundle (<3 fibers <1 fiber diameter apart
C = Cluster (>3 Intersections)
M = Matrix
NSD = No Structures Detected

Grid acceptance:

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

AMPHIBOLES
Amosite
Crocidolite
Anthophyllite
Tremolite
Actinolite

Totals

	F	B	C	M	>5µ
Chrysotile					
Amphibole					
Ambiguous					
Non-Asbestos					
Non-Identified					

NYC 9/11 Public Portal Document

TEM Asbestos (air) Count Sheet

Client Name:	ATC	**Volume (liters):**	1300
Lab Group #:	5994	**Filter Type / Filter Area:**	MCE 385 mm²
Lab Sample #:	3	**Grid Opening Size:**	0.01124
Client Sample #:	3	**Area Examined:**	0.06744 mm²
GRID BOX:	5PF	**Magnification:**	20,000
GRID ID:	3GFA	**Accelerating Voltage:**	100 KeV
# Grid Openings:	6	**Analysis Date:**	11/29/01

Analysis Performed By: MARK PEYSAKHOV

GO. No	GO. Coord	Structure No	Structure Type F	B	C	M	Length >=05 µ <5µ	Length >=5µ	ID of Structure N or √ Chrys	Amphibole	Nonasb	Ambig/ND	EDS (Nonadb Elements)
1	D2	NSD											
2	C2	—											
3	P2	—											
4	F2	—											
5	K2	—											
6	R2	—											

Struct = > 0.5µ > 5:1 Aspect Ratio

√= Positive diffraction pattern properties conforming to laboratory identification criteria observed

√= EDS spectrum conforming to laboratory identification criteria observed

F = Single Fiber
B = Bundle (<3 fibers <1 fiber diameter apart
C = Cluster (>3 intersections)
M = Matrix
NSD = No Structures Detected

Grid acceptance:

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

AMPHIBOLES
Amosite
Crocidolite
Anthophyllite
Tremolite
Actinolite

Totals

	F	B	C	M	>5µ
Chrysotile					
Amphibole					
Ambiguous					
Non-Asbestos					
Non-Identified					

NYC 9/11 Public Portal Document

TEM Asbestos (air) Count Sheet

Client Name:	ATC	**Volume (liters):**	1300
Lab Group #:	5994	**Filter Type / Filter Area:**	MCE 385 mm²
Lab Sample #:	4	**Grid Opening Size:**	0.01124
Client Sample #:	4	**Area Examined:**	0.06744 mm²
GRID BOX:	B-9E	**Magnification:**	20,000
GRID ID:	4B C2	**Accelerating Voltage:**	100 KeV
# Grid Openings:	6	**Analysis Date:**	11/29/01

Analysis Performed By: MARK PEYSAKHOV

GO. No	GO. Coord	Structure No	Structure Type F	B	C	M	Length >=05 µ <5µ	>=5µ	ID of Structure N or √ Chrys	Amphibole	Nonasb	Ambig/ND	EDS (Nonadb Elements)
1	E1	NSD											
6 2	K1	— C											
— 3	R1	— C											
4	A7	— C											
C 5	D7	— C											
6	C7	— C											

Struct = > 0.5µ .> 5:1 Aspect Ratio

√= Positive diffraction pattern properties conforming to laboratory identification criteria observed

√= EDS spectrum conforming to laboratory identification criteria observed

F = Single Fiber
B = Bundle (<3 fibers <1 fiber diameter apart
C = Cluster (>3 Intersections)
M = Matrix
NSD = No Structures Detected

Grid acceptance:

<50% undissolved filter, overlapped or folded <10% particulate coverage >50% coverage ate least 20 unfolded or overlapped gnd squares <5% holes or opaque areas

AMPHIBOLES
Amosite
Crocidolite
Anthophyllite
Tremolite
Actinolite

Totals

	F	B	C	M	>5µ
Chrysotile					
Amphibole					
Ambiguous					
Non-Asbestos					
Non-Identified					

NYC 9/11 Public Portal Document

TEM Asbestos (air) Count Sheet

Client Name:	ATC	**Volume (liters):**	1300
Lab Group #:	5994	**Filter Type / Filter Area:**	MCE 385 mm²
Lab Sample #:	5	**Grid Opening Size:**	0.01124
Client Sample #:	5	**Area Examined:**	0.06744 mm²
GRID BOX:	5-9E	**Magnification:**	20,000
GRID ID:	E05-	**Accelerating Voltage:**	100 KeV
# Grid Openings:	6	**Analysis Date:**	11/29/01

Analysis Performed By: MARK PEYSAKHOV

GO. No	GO. Coord	Structure No	Structure Type F	B	C	M	Length >=05 µ <5µ	>=5µ	Chrys	ID of Structure N or √ Amphibole	Nonasb	Ambig/ND	EDS (Nonadb Elements)
1	A2	NSD											
2	D2	- "											
3	C2	- "											
4	X2	- "											
5	Q2	- "											
6	J2	- "											

Struct = > 0.5µ > 5:1 Aspect Ratio

√= Positive diffraction pattern properties conforming to laboratory identification criteria observed

√= EDS spectrum conforming to laboratory identification criteria observed

F = Single Fiber
B = Bundle (<3 fibers <1 fiber diameter apart
C = Cluster (>3 intersections)
M = Matrix
NSD = No Structures Detected

Grid acceptance:

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

AMPHIBOLES
Amosite
Crocidolite
Anthophyllite
Tremolite
Actinolite

Totals

	F	B	C	M	>5µ
Chrysotile					
Amphibole					
Ambiguous					
Non-Asbestos					
Non-Identified					

NYC 9/11 Public Portal Document

TEM Asbestos (air) Count Sheet

Client Name:	ATC	**Volume (liters):**	1300
Lab Group #:	5994	**Filter Type / Filter Area:**	MCE 385 mm²
Lab Sample #:	6	**Grid Opening Size:**	0.01124
Client Sample #:	6	**Area Examined:**	0.06744 mm²
GRID BOX:	SEF	**Magnification:**	20,000
GRID ID:	5-AE	**Accelerating Voltage:**	100 KeV
# Grid Openings:	6	**Analysis Date:**	11/29/01

Analysis Performed By: MARK PEYSAKHOV

GO. No	GO. Coord	Structure No	Structure Type F	B	C	M	Length >=05 µ <5µ	Length >=5µ	ID of Structure N or √ Chrys	Amphibole	Nonasb	Ambig/ND	EDS (Nonadb Elements)
1	Q3	NSD											
2	J3	—											
3	E3	—											
4	U2	—											
5	P2	—											
6	C2	—											

Struct = > 0.5µ > 5:1 Aspect Ratio

√= Positive diffraction pattern properties conforming to laboratory identification criteria observed

√= EDS spectrum conforming to laboratory identification criteria observed

F = Single Fiber
B = Bundle (<3 fibers <1 fiber diameter apart
C = Cluster (>3 intersections)
M = Matrix
NSD = No Structures Detected

Grid acceptance:

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

AMPHIBOLES
Amosite
Crocidolite
Anthophyllite
Tremolite
Actinolite

Totals

	F	B	C	M	>5µ
Chrysotile					
Amphibole					
Ambiguous					
Non-Asbestos					
Non-Identified					

NYC 9/11 Public Portal Document

TEM Asbestos (air) Count Sheet

Client Name:	ATC	**Volume (liters):**	1300
Lab Group #:	5994	**Filter Type / Filter Area:**	MCE 385 mm²
Lab Sample #:	7	**Grid Opening Size:**	0.01124
Client Sample #:	7	**Area Examined:**	0.06744 mm²
GRID BOX:	E-5	**Magnification:**	20,000
GRID ID:	D-5	**Accelerating Voltage:**	100 KeV
# Grid Openings:	6	**Analysis Date:**	11/29/01

Analysis Performed By: MARK PEYSAKHOV

GO. No	GO. Coord	Structure No	Structure Type F	B	C	M	Length >=05 µ <5µ	>=5µ	ID of Structure N or √ Chrys	Amphibole	Nonasb	Ambig/ND	EDS (Nonadb Elements)
1	X9	1	√										
2	Q9	—	"										
3	J9	—	"										
4	R7	—	"										
5	K7	—	"										
6	I7	—	"										

Struct = > 0.5µ > 5:1 Aspect Ratio

√= Positive diffraction pattern properties conforming to laboratory identification criteria observed

√= EDS spectrum conforming to laboratory identification criteria observed

F = Single Fiber

B = Bundle (<3 fibers <1 fiber diameter apart

C = Cluster (>3 Intersections)

M = Matrix

NSD = No Structures Detected

Grid acceptance:

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

AMPHIBOLES
Amosite
Crocidolite
Anthophyllite
Tremolite
Actinolite

Totals

	F	B	C	M	>5µ
Chrysotile					
Amphibole					
Ambiguous					
Non-Asbestos					
Non-Identified					

NYC 9/11 Public Portal Document

TEM Asbestos (air) Count Sheet

Client Name:	ATC	**Volume (liters):**	1300
Lab Group #:	5994	**Filter Type / Filter Area:**	MCE 385 mm²
Lab Sample #:	8	**Grid Opening Size:**	0.01124
Client Sample #:	8	**Area Examined:**	0.06744 mm²
GRID BOX:	SPE	**Magnification:**	20,000
GRID ID:	5-55-6-D	**Accelerating Voltage:**	100 KeV
# Grid Openings:	6	**Analysis Date:**	11/29/01

Analysis Performed By: MARK PEYSAKHOV

GO. No	GO. Coord	Structure No	Structure Type F	B	C	M	Length >=05 µ <5µ	>=5µ	ID of Structure N or √ Chrys	Amphibole	Nonasb	Ambig/ND	EDS (Nonadb Elements)
1	4D1	4S0											
2	C1	— "											
3	A1	— "											
4	J3	— "											
5	Q3	— "											
6	X3	— "											

Struct = > 0.5µ .> 5:1 Aspect Ratio

√= Positive diffraction pattern properties conforming to laboratory identification criteria observed

√= EDS spectrum conforming to laboratory identification criteria observed

F = Single Fiber
B = Bundle (<3 fibers <1 fiber diameter apart
C = Cluster (>3 Intersections)
M = Matrix
NSD = No Structures Detected

Grid acceptance:

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

AMPHIBOLES
Amosite
Crocidolite
Anthophyllite
Tremolite
Actinolite

Totals

	F	B	C	M	>5µ
Chrysotile					
Amphibole					
Ambiguous					
Non-Asbestos					
Non-Identified					

NYC 9/11 Public Portal Document

TEM Asbestos (air) Count Sheet

Client Name:	ATC	**Volume (liters):**	1300
Lab Group #:	5994	**Filter Type / Filter Area:**	MCE 385 mm²
Lab Sample #:	9	**Grid Opening Size:**	0.01124
Client Sample #:	9	**Area Examined:**	0.06744 mm²
GRID BOX:	5 F F	**Magnification:**	20,000
GRID ID:	E B C	**Accelerating Voltage:**	100 KeV
# Grid Openings:	6	**Analysis Date:**	11/29/01

Analysis Performed By: MARK PEYSAKHOV

GO. No	GO. Coord	Structure No	Structure Type F	B	C	M	Length >=05 µ <5µ	Length >=5µ	ID of Structure N or √ Chrys	Amphibole	Nonasb	Ambig/ND	EDS (Nonadb Elements)
1	F1	√50											
B 2	K1	—											
3	R1	—											
4	X3	—											
C 5	Q3	—											
6	J3	—											

Struct = > 0.5µ .> 5:1 Aspect Ratio

√= Positive diffraction pattern properties conforming to laboratory identification criteria observed

√= EDS spectrum conforming to laboratory identification criteria observed

F = Single Fiber

B = Bundle (<3 fibers <1 fiber diameter apart

C = Cluster (>3 Intersections)

M = Matrix

NSD = No Structures Detected

Grid acceptance:

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

AMPHIBOLES

Amosite
Crocidolite
Anthophyllite
Tremolite
Actinolite

Totals

	F	B	C	M	>5µ
Chrysotile					
Amphibole					
Ambiguous					
Non-Asbestos					
Non-Identified					

NYC 9/11 Public Portal Document

TEM Asbestos (air) Count Sheet

Client Name:	ATC	**Volume (liters):**	1300
Lab Group #:	5994	**Filter Type / Filter Area:**	MCE 385 mm²
Lab Sample #:	10	**Grid Opening Size:**	0.01124
Client Sample #:	10	**Area Examined:**	0.06744 mm²
GRID BOX:	SEE	**Magnification:**	20,000
GRID ID:	GDE	**Accelerating Voltage:**	100 KeV
# Grid Openings:	6	**Analysis Date:**	11/29/01

Analysis Performed By: MARK PEYSAKHOV

GO. No	GO. Coord	Structure No	Structure Type F	B	C	M	Length >=05 µ <5µ	>=5µ	ID of Structure N or √ Chrys	Amphibole	Nonasb	Ambig/ND	EDS (Nonadb Elements)
1	J9	NSO											
2	Q9	— "											
3	X9	— "											
4	Z2	— "											
5	V2	— "											
6	P2	— "											

Struct = > 0.5µ .> 5:1 Aspect Ratio

√= Positive diffraction pattern properties conforming to laboratory identification criteria observed

√= EDS spectrum conforming to laboratory identification criteria observed

F = Single Fiber
B = Bundle (<3 fibers <1 fiber diameter apart
C = Cluster (>3 Intersections)
M = Matrix
NSD = No Structures Detected

Grid acceptance:

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

AMPHIBOLES
Amosite
Crocidolite
Anthophyllite
Tremolite
Actinolite

Totals

	F	B	C	M	>5µ
Chrysotile					
Amphibole					
Ambiguous					
Non-Asbestos					
Non-Identified					

NYC 9/11 Public Portal Document

TEM Asbestos (air) Count Sheet

Client Name:	ATC	**Volume (liters):**	1300
Lab Group #:	5994	**Filter Type / Filter Area:**	MCE 385 mm²
Lab Sample #:	11	**Grid Opening Size:**	0.01124
Client Sample #:	11	**Area Examined:**	0.06744 mm²
GRID BOX:	S-3-E	**Magnification:**	20,000
GRID ID:	7AB	**Accelerating Voltage:**	100 KeV
# Grid Openings:	6	**Analysis Date:**	11/29/01

Analysis Performed By: MARK PEYSAKHOV

GO. No	GO. Coord	Structure No	Structure Type F	B	C	M	Length >=05 µ <5µ	>=5µ	Chrys	IC of Structure N or √ Amphibole	Nonasb	Ambig/ND	EDS. (Nonadb Elements)
1	J2	NSO											
2	R2	—											
3	K2	—											
4	D7	—											
5	C7	—											
6	D7	—											

Struct = > 0.5µ .> 5:1 Aspect Ratio

√= Positive diffraction pattern properties conforming to laboratory identification criteria observed

√= EDS spectrum conforming to laboratory identification criteria observed

F = Single Fiber
B = Bundle (<3 fibers <1 fiber diameter apart
C = Cluster (>3 Intersections)
M = Matrix
NSD = No Structures Detected

Grid acceptance:

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

AMPHIBOLES
Amosite
Crocidolite
Anthophyllite
Tremolite
Actinolite

Totals

	F	B	C	M	>5µ
Chrysotile					
Amphibole					
Ambiguous					
Non-Asbestos					
Non-Identified					

NYC 9/11 Public Portal Document

TEM Asbestos (air) Count Sheet

Client Name:	ATC	**Volume (liters):**	1300
Lab Group #:	5994	**Filter Type / Filter Area:**	MCE 385 mm²
Lab Sample #:	12	**Grid Opening Size:**	0.01124
Client Sample #:	12	**Area Examined:**	0.06744 mm²
GRID BOX:	SPE	**Magnification:**	20,000
GRID ID:	7000	**Accelerating Voltage:**	100 KeV
# Grid Openings:	6	**Analysis Date:**	11/29/01

Analysis Performed By: MARK PEYSAKHOV

GO. No	GO. Coord	Structure No	Structure Type F	B	C	M	Length >=05 µ <5µ	>=5µ	Chrys	ID of Structure N or √ Amphibole	Nonasb	Ambig/ND	EDS (Nonadb Elements)
1	V1	NSD											
2	R1	—											
3	K1	—											
4	L3	—											
5	J3	—											
6	Q3	—											

Struct = > 0.5µ .> 5:1 Aspect Ratio

√= Positive diffraction pattern properties conforming to laboratory identification criteria observed

√= EDS spectrum conforming to laboratory identification criteria observed

F = Single Fiber
B = Bundle (<3 fibers <1 fiber diameter apart
C = Cluster (>3 Intersections)
M = Matrix
NSD = No Structures Detected

Grid acceptance:

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

AMPHIBOLES
Amosite
Crocidolite
Anthophyllite
Tremolite
Actinolite

Totals

	F	B	C	M	>5µ
Chrysotile					
Amphibole					
Ambiguous					
Non-Asbestos					
Non-Identified					

NYC 9/11 Public Portal Document

TEM Asbestos (air) Count Sheet

Client Name:	ATC	**Volume (liters):**	1300
Lab Group #:	5994	**Filter Type / Filter Area:**	MCE 385 mm²
Lab Sample #:	13	**Grid Opening Size:**	0.01124
Client Sample #:	13	**Area Examined:**	0.06744 mm²
GRID BOX:	SEF	**Magnification:**	20,000
GRID ID:	2E6H	**Accelerating Voltage:**	100 KeV
# Grid Openings:	6	**Analysis Date:**	11/29/01

Analysis Performed By: MARK PEYSAKHOV

GO. No	GO. Coord	Structure No	Structure Type F	B	C	M	Length >=05 µ <5µ	>=5µ	ID of Structure N or √ Chrys	Amphibole	Nonasb	Ambig/ND	EDS (Nonadb Elements)
1	X9	NSD											
2	Q9	—											
3	J9	—											
4	F7	—											
5	K7	—											
6	R7	—											

Struct = > 0.5µ > 5:1 Aspect Ratio

√= Positive diffraction pattern properties conforming to laboratory identification criteria observed

√= EDS spectrum conforming to laboratory identification criteria observed

F = Single Fiber

B = Bundle (<3 fibers <1 fiber diameter apart

C = Cluster (>3 Intersections)

M = Matrix

NSD = No Structures Detected

Grid acceptance:

<50% undissolved filter, overlapped or folded <10% particulate coverage >50% coverage ate least 20 unfolded or overlapped gnd squares <5% holes or opaque areas

AMPHIBOLES

Amosite
Crocidolite
Anthophyllite
Tremolite
Actinolite

Totals

	F	B	C	M	>5µ
Chrysotile					
Amphibole					
Ambiguous					
Non-Asbestos					
Non-Identified					

NYC 9/11 Public Portal Document

TEM Asbestos (air) Count Sheet

Client Name:	ATC	**Volume (liters):**	1300
Lab Group #:	5994	**Filter Type / Filter Area:**	MCE 385 mm²
Lab Sample #:	14	**Grid Opening Size:**	0.01124
Client Sample #:	14	**Area Examined:**	0.06744 mm²
GRID BOX:	3EE	**Magnification:**	20,000
GRID ID:	BBC	**Accelerating Voltage:**	100 KeV
# Grid Openings:	6	**Analysis Date:**	11/29/01

Analysis Performed By: MARK PEYSAKHOV

GO. No	GO. Coord	Structure No	Structure Type F	B	C	M	Length >=05 µ <5µ	>=5µ	ID of Structure N or √ Chrys	Amphibole	Nonasb	Ambig/ND	EDS (Nonadb Elements)
1	D1	1		C				C	C				
2	E1	NSD											
3	A1	— C											
4	X8	— C											
5	QE	— C											
6	JE	— C											

Struct = > 0.5µ .> 5:1 Aspect Ratio

√= Positive diffraction pattern properties conforming to laboratory identification criteria observed

√= EDS spectrum conforming to laboratory identification criteria observed

F = Single Fiber

B = Bundle (<3 fibers <1 fiber diameter apart

C = Cluster (>3 Intersections)

M = Matrix

NSD = No Structures Detected

Grid acceptance:

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

AMPHIBOLES

Amosite
Crocidolite
Anthophyllite
Tremolite
Actinolite

Totals

	F	B	C	M	>5µ
Chrysotile					
Amphibole					
Ambiguous					
Non-Asbestos					
Non-Identified					

NYC 9/11 Public Portal Document

TEM Asbestos (air) Count Sheet

Client Name:	ATC	**Volume (liters):**	1300
Lab Group #:	5994	**Filter Type / Filter Area:**	MCE 385 mm²
Lab Sample #:	15	**Grid Opening Size:**	0.01124
Client Sample #:	15	**Area Examined:**	0.06744 mm²
GRID BOX:	5FE	**Magnification:**	20,000
GRID ID:	80C	**Accelerating Voltage:**	100 KeV
# Grid Openings:	6	**Analysis Date:**	11/29/01

Analysis Performed By: MARK PEYSAKHOV

GO. No	GO. Coord	Structure No	Structure Type F	B	C	M	Length >=05 µ <5µ	Length >=5µ	ID of Structure N or √ Chrys	Amphibole	Nonasb	Ambig/ND	EDS (Nonadb Elements)
1	B1	NSD											
2	E1	—											
3	J1	—											
4	B1	—											
5	E1	—											
6	J1	—											

Struct = > 0.5µ > 5:1 Aspect Ratio

√= Positive diffraction pattern properties conforming to laboratory identification criteria observed

√= EDS spectrum conforming to laboratory identification criteria observed

F = Single Fiber
B = Bundle (<3 fibers <1 fiber diameter apart
C = Cluster (>3 Intersections)
M = Matrix
NSD = No Structures Detected

Grid acceptance:

<50% undissolved filter, overlapped or folded <10% particulate coverage >50% coverage ate least 20 unfolded or overlapped gnd squares <5% holes or opaque areas

AMPHIBOLES
Amosite
Crocidolite
Anthophyllite
Tremolite
Actinolite

Totals

	F	B	C	M	>5µ
Chrysotile					
Amphibole					
Ambiguous					
Non-Asbestos					
Non-Identified					

NYC 9/11 Public Portal Document

TEM Asbestos (air) Count Sheet

Client Name:	ATC	**Volume (liters):**	1300
Lab Group #:	5994	**Filter Type / Filter Area:**	MCE 385 mm²
Lab Sample #:	16	**Grid Opening Size:**	0.01124
Client Sample #:	16	**Area Examined:**	0.06744 mm²
GRID BOX:	SEF	**Magnification:**	20,000
GRID ID:	EBB	**Accelerating Voltage:**	100 KeV
# Grid Openings:	6	**Analysis Date:**	11/29/01

Analysis Performed By: MARK PEYSAKHOV

GO. No	GO. Coord	Structure No	Structure Type F	B	C	M	Length >=05 µ <5µ	Length >=5µ	ID of Structure N or √ Chrys	Amphibole	Nonasb	Ambig/ND	EDS (Nonadb Elements)
1	D1	NSD											
2	E1	—											
3	A1	—											
4	J9	—											
5	A9	—											
6	X9	—											

Struct = > 0.5µ .> 5:1 Aspect Ratio

√= Positive diffraction pattern properties conforming to laboratory identification criteria observed

√= EDS spectrum conforming to laboratory identification criteria observed

F = Single Fiber
B = Bundle (<3 fibers <1 fiber diameter apart
C = Cluster (>3 Intersections)
M = Matrix
NSD = No Structures Detected

Grid acceptance:

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

AMPHIBOLES
Amosite
Crocidolite
Anthophyllite
Tremolite
Actinolite

Totals

	F	B	C	M	>5µ
Chrysotile					
Amphibole					
Ambiguous					
Non-Asbestos					
Non-Identified					

NYC 9/11 Public Portal Document

TEM Asbestos (air) Count Sheet

Client Name:	ATC	**Volume (liters):**	1300
Lab Group #:	5994	**Filter Type / Filter Area:**	MCE 385 mm²
Lab Sample #:	17	**Grid Opening Size:**	0.01124
Client Sample #:	17	**Area Examined:**	0.06744 mm²
GRID BOX:	5-5-E	**Magnification:**	20,000
GRID ID:	8 P-D	**Accelerating Voltage:**	100 KeV
# Grid Openings:	6	**Analysis Date:**	11/29/01

Analysis Performed By: MARK PEYSAKHOV

GO. No	GO. Coord	Structure No	Structure Type F	B	C	M	Length >=05 µ <5u	>=5µ	ID of Structure √ or N Chrys	Amphibole	Nonasb	Ambig/ND	EDS (Nonadb Elements)
1	A1	NSD											
2	D1	—											
3	C1	—											
4	A8	—											
5	D8	—											
6	C8	—											

Struct = > 0.5µ .> 5:1 Aspect Ratio

√= Positive diffraction pattern properties conforming to laboratory identification criteria observed

√= EDS spectrum conforming to laboratory identification criteria observed

F = Single Fiber
B = Bundle (<3 fibers <1 fiber diameter apart
C = Cluster (>3 Intersections)
M = Matrix
NSD = No Structures Detected

Grid acceptance:

<50% undissolved filter. overlapped or folded <10% particulate coverage >50% coverage ate least 20 unfolded or overlapped grid squares <5% holes or opaque areas

AMPHIBOLES
Amosite
Crocidolite
Anthophyllite
Tremolite
Actinolite

Totals

	F	B	C	M	>5µ
Chrysotile					
Amphibole					
Ambiguous					
Non-Asbestos					
Non-Identified					

NYC 9/11 Public Portal Document

TEM Asbestos (air) Count Sheet

Client Name:	ATC	**Volume (liters):**	1300
Lab Group #:	5994	**Filter Type / Filter Area:**	MCE 385 mm²
Lab Sample #:	18	**Grid Opening Size:**	0.01124
Client Sample #:	18	**Area Examined:**	0.06744 mm²
GRID BOX:	SEE	**Magnification:**	20,000
GRID ID:	9E-10A	**Accelerating Voltage:**	100 KeV
# Grid Openings:	6	**Analysis Date:**	11/29/01

Analysis Performed By: MARK PEYSAKHOV

GO. No	GO. Coord	Structure No	Structure Type F	B	C	M	Length >=05 µ <5µ	Length >=5µ	ID of Structure N or √ Chrys	Amphibole	Nonasb	Ambig/ND	EDS (Nonadb Elements)
1	D8	#5=0											
2	C8	— "											
3	B8	— "											
4	F1	— "											
5	R1	— "											
6	R1	— "											

Struct = > 0.5µ > 5:1 Aspect Ratio

√= Positive diffraction pattern properties conforming to laboratory identification criteria observed

√= EDS spectrum conforming to laboratory identification criteria observed

F = Single Fiber
B = Bundle (<3 fibers <1 fiber diameter apart
C = Cluster (>3 intersections)
M = Matrix
NSD = No Structures Detected

Grid acceptance:

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

AMPHIBOLES
Amosite
Crocidolite
Anthophyllite
Tremolite
Actinolite

Totals

	F	B	C	M	>5µ
Chrysotile					
Amphibole					
Ambiguous					
Non-Asbestos					
Non-Identified					

NYC 9/11 Public Portal Document

TEM Asbestos (air) Count Sheet

Client Name:	ATC	**Volume (liters):**	1300
Lab Group #:	5994	**Filter Type / Filter Area:**	MCE 385 mm²
Lab Sample #:	19	**Grid Opening Size:**	0.01124
Client Sample #:	19	**Area Examined:**	0.06744 mm²
GRID BOX:	5EF	**Magnification:**	20,000
GRID ID:	1080	**Accelerating Voltage:**	100 KeV
# Grid Openings:	6	**Analysis Date:**	11/29/01

Analysis Performed By: MARK PEYSAKHOV

GO. No	GO. Coord	Structure No	Structure Type F	B	C	M	Length >=05 µ <5µ	>=5µ	ID of Structure N or √ Chrys	Amphibole	Nonasb	Ambig/ND	EDS (Nonadb Elements)
1	B8	NSD											
2	E8	—											
3	J8	—											
4	I=1	—											
5	J-K1	—											
6	R1	—											

Struct = > 0.5µ > 5:1 Aspect Ratio

√= Positive diffraction pattern properties conforming to laboratory identification criteria observed

√= EDS spectrum conforming to laboratory identification criteria observed

F = Single Fiber

B = Bundle (<3 fibers <1 fiber diameter apart

C = Cluster (>3 Intersections)

M = Matrix

NSD = No Structures Detected

Grid acceptance:

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

AMPHIBOLES

Amosite
Crocidolite
Anthophyllite
Tremolite
Actinolite

Totals

	F	B	C	M	>5µ
Chrysotile					
Amphibole					
Ambiguous					
Non-Asbestos					
Non-Identified					

NYC 9/11 Public Portal Document

TEM Asbestos (air) Count Sheet

Client Name:	ATC	**Volume (liters):**	1300
Lab Group #:	5994	**Filter Type / Filter Area:**	MCE 385 mm²
Lab Sample #:	20	**Grid Opening Size:**	0.01124
Client Sample #:	20	**Area Examined:**	0.06744 mm²
GRID BOX:	5-9E	**Magnification:**	20,000
GRID ID:	10D2-	**Accelerating Voltage:**	100 KeV
# Grid Openings:	6	**Analysis Date:**	11/29/01

Analysis Performed By: MARK PEYSAKHOV

GO. No	GO. Coord	Structure No	Structure Type F	B	C	M	Length >=05 µ <5µ	>=5µ	ID of Structure N or √ Chrys	Amphibole	Nonasb	Ambig/ND	EDS (Nonadb Elements)
1	A2	NSD											
2	D2	—											
3	E2	—											
4	D1	—											
5	E1	—											
6	A1	—											

Struct = > 0.5µ > 5:1 Aspect Ratio

√= Positive diffraction pattern properties conforming to laboratory identification criteria observed

√= EDS spectrum conforming to laboratory identification criteria observed

F = Single Fiber
B = Bundle (<3 fibers <1 fiber diameter apart
C = Cluster (>3 Intersections)
M = Matrix
NSD = No Structures Detected

Grid acceptance:

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

AMPHIBOLES
Amosite
Crocidolite
Anthophyllite
Tremolite
Actinolite

Totals

	F	B	C	M	>5µ
Chrysotile					
Amphibole					
Ambiguous					
Non-Asbestos					
Non-Identified					

NYC 9/11 Public Portal Document

TEM Asbestos (air) Count Sheet

Client Name:	ATC	**Volume (liters):**	1300
Lab Group #:	5994	**Filter Type / Filter Area:**	MCE 385 mm²
Lab Sample #:	21	**Grid Opening Size:**	0.01124
Client Sample #:	21	**Area Examined:**	0.06744 mm².
GRID BOX:	5895	**Magnification:**	20,000
GRID ID:	1113	**Accelerating Voltage:**	100 KeV
# Grid Openings:	6	**Analysis Date:**	11/29/01

Analysis Performed By: MARK PEYSAKHOV

GO. No	Coord	Structure No	Structure Type F	B	C	M	Length >=05 µ <5µ	>=5µ	ID of Structure N or √ Chrys	Amphibole	Nonasb	Ambig/ND	EDS (Nonadb Elements)
1	A1	NSD											
2	D1	—											
3	E1	—											
4	B9	—											
5	C9	—											
6	J9	—											

Struct = > 0.5µ .> 5:1 Aspect Ratio

√= Positive diffraction pattern properties conforming to laboratory identification criteria observed

√= EDS spectrum conforming to laboratory identification criteria observed

F = Single Fiber
B = Bundle (<3 fibers <1 fiber diameter apart
C = Cluster (>3 Intersections)
M = Matrix
NSD = No Structures Detected

Grid acceptance:

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

AMPHIBOLES
Amosite
Crocidolite
Anthophyllite
Tremolite
Actinolite

Totals

	F	B	C	M	>5µ
Chrysotile					
Amphibole					
Ambiguous					
Non-Asbestos					
Non-Identified					

NYC 9/11 Public Portal Document

TEM Asbestos (air) Count Sheet

Client Name:	ATC	**Volume (liters):**	1300
Lab Group #:	5994	**Filter Type / Filter Area:**	MCE 385 mm²
Lab Sample #:	22	**Grid Opening Size:**	0.01124
Client Sample #:	22	**Area Examined:**	0.06744 mm²
GRID BOX:	5-B-5	**Magnification:**	20,000
GRID ID:	10Q	**Accelerating Voltage:**	100 KeV
# Grid Openings:	6	**Analysis Date:**	11/29/01

Analysis Performed By: MARK PEYSAKHOV

GO. No	GO. Coord	Structure No	Structure Type F	B	C	M	Length >=05 µ <5µ	Length >=5µ	ID of Structure N or √ Chrys	Amphibole	Nonasb	Ambig/ND	EDS (Nonadb Elements)
1	B1	NSD											
2	E1	—											
3	J1	—											
4	I-4	—											
5	K4	—											
6	K4	—											

Struct = > 0.5µ .> 5:1 Aspect Ratio

√= Positive diffraction pattern properties conforming to laboratory identification criteria observed

√= EDS spectrum conforming to laboratory identification criteria observed

F = Single Fiber
B = Bundle (<3 fibers <1 fiber diameter apart
C = Cluster (>3 Intersections)
M = Matrix
NSD = No Structures Detected

Grid acceptance:

<50% undissolved filter, overlapped or folded
<10% particulate coverage >50% coverage ate least 20 unfolded or overlapped gnd squares <5% holes or opaque areas

AMPHIBOLES
Amosite
Crocidolite
Anthophyllite
Tremolite
Actinolite

Totals

	F	B	C	M	>5µ
Chrysotile					
Amphibole					
Ambiguous					
Non-Asbestos					
Non-Identified					

NYC 9/11 Public Portal Document

TEM Asbestos (air) Count Sheet

Client Name:	ATC	**Volume (liters):**	1300
Lab Group #:	5994	**Filter Type / Filter Area:**	MCE 385 mm²
Lab Sample #:	23	**Grid Opening Size:**	0.01124
Client Sample #:	23	**Area Examined:**	0.06744 mm²
GRID BOX:	3-B-5-	**Magnification:**	20,000
GRID ID:	1-E-2-A	**Accelerating Voltage:**	100 KeV
# Grid Openings:	6	**Analysis Date:**	11/29/01

Analysis Performed By: MARK PEYSAKHOV

GO. No	GO. Coord	Structure No	Structure Type F	B	C	M	Length >=05 µ <5µ	>=5µ	ID of Structure N or √ Chrys	Amphibole	Nonasb	Ambig/ND	EDS (Nonadb Elements)
1	D1	NSD											
2	C1	—											
3	A1	—											
4	E1	—											
5	A1	—											
6	A1	—											

Struct = > 0.5µ > 5:1 Aspect Ratio

√= Positive diffraction pattern properties conforming to laboratory identification criteria observed

√= EDS spectrum conforming to laboratory identification criteria observed

F = Singie Fiber
B = Bundle (<3 fibers <1 fiber diameter apart
C = Cluster (>3 Intersections)
M = Matrix
NSD = No Structures Detected

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

AMPHIBOLES
Amosite
Crocidolite
Anthophyllite
Tremolite
Actinolite

Totals

	F	B	C	M	>5µ
Chrysotile					
Amphibole					
Ambiguous					
Non-Asbestos					
Non-Identified					

NYC 9/11 Public Portal Document

TEM Asbestos (air) Count Sheet

Client Name:	ATC	**Volume (liters):**	1300
Lab Group #:	5994	**Filter Type / Filter Area:**	MCE 385 mm²
Lab Sample #:	24	**Grid Opening Size:**	0.01124
Client Sample #:	24	**Area Examined:**	0.06744 mm²
GRID BOX:	S-23	**Magnification:**	20,000
GRID ID:	2BC	**Accelerating Voltage:**	100 KeV
# Grid Openings:	6	**Analysis Date:**	11/29/01

Analysis Performed By: MARK PEYSAKHOV

GO. No	GO. Coord	Structure No	Structure Type F	B	C	M	Length >=05 µ <5µ	>=5µ	ID of Structure N or √ Chrys	Amphibole	Nonasb	Ambig/ND	EDS (Nonadb Elements)
1	C1	NSD											
2	H1	—											
3	N1	—											
4	I3	—											
5	D3	—											
6	A3	—											

Struct = > 0.5µ .> 5:1 Aspect Ratio

√= Positive diffraction pattern properties conforming to laboratory identification criteria observed

√= EDS spectrum conforming to laboratory identification criteria observed

F = Single Fiber
B = Bundle (<3 fibers <1 fiber diameter apart
C = Cluster (>3 intersections)
M = Matrix
NSD = No Structures Detected

Grid acceptance:

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

AMPHIBOLES
Amosite
Crocidolite
Anthophyllite
Tremolite
Actinolite

Totals

	F	B	C	M	>5µ
Chrysotile					
Amphibole					
Ambiguous					
Non-Asbestos					
Non-Identified					

NYC 9/11 Public Portal Document

VATC ASSOCIATES INC.

5991

AIR MONITORING DATA AND CHAIN OF CUSTODY FORM

Page ____ of ____

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:
225 Rector PL	2a. Project Address: 225 Rector PL NY NY		4a. Air Sampler:	SD-139

5. Date:	6. Abatement Location:	7. ☐ PCM (0.8 micron MCE) Cassette/Filter Manufacture: X Lot #:	8. ☐ TEM (0.45 micron MCE) Cassette/Filter Manufacture: MIDI Lot #: 0026 0916	9. Type: a. ☐ Background b. ☐ Pre-Abate c. ☐ Abatement d. ☐ Post-Abate e. ☐ OSHA f. ☐ Environmental g. ☐ Ambient h. ☐ Other
11.28.01				

DAILY AIR SAMPLE RECORD

10. Sample I.D. Number	11. Pump Number	12. Sample Location 12a. IWA	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	14b. Avg	15. Total Air Vol. (liters)	16. # Fibers/Fields Minus Blank	17. Fiber Conc. F/CC
B-3				Field Blank 0 April 30 sec									
				Field Blank									
13		V		AP-1	1410	1620	130	10	10	10	1300		
14		V		AP-1	1415	1625	130	10	10	10	1300		
15		V		Hallway, 5FL	1800	1910	130	10	10	10	1300		
16		V		~~5FL~~ Hallway 10 FL	1705	1915	130	10	10	10	1300		
17		V		Hallway, 15FL	1710	1910	130	10	10	10	1300		
18		V		~~10FL~~ Hallway, 20FL	1715	1915	130	10	10	10	1300		
19		V		Lobby	1800	2010	130	10	10	10	1300		
20		V		AP-1	1805	2015	130	10	10	10	1300		
21		V		AP-1	1810	2020	130	10	10	10	1300		
22		V		AP-1	1815	2025	130	10	10	10	1300		
23		V		AP-1	1820	2030	130	10	10	10	1300		
24		V		AP-1	1825	2035	130	10	10	10	1300		

PII

PII

CHAIN OF CUSTODY

18. Relinquished By:	19. Received By:	20. Date:	21. Time:
	JD	11/29/01	Tam

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

22. Lab Name:	23. Date:	24. Time:
a. Analyzed By:	11/30	1810
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

TC Project Manager: Burkhardt

27. Result To: Fred Burkhardt
Beeper/Phone #'s ____

28. Comments:

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

NY-1 (1/00)

NYC-WTC_000123939

NYC-WTC_000123940

AIR MONITORING DATA AND CHAIN OF CUSTODY FORM

5994 24/27 65519-65545

Page _____ of _____

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:
225 Rector PL	2a. Project Address: 225 Rector PL NY NY		4a. Air Sampler:	SD-132

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 # 00264916	9. Type: a. ☐ Background b. ☐ Pre-Abate c. ☐ Abatement d. ☐ Post-Abate e. ☐ OSHA f. ☐ Environmental g. ☒ Ambient h. ☐ Other
11/28/01				

DAILY AIR SAMPLE RECORD

10. Sample I.D. Number	11. Pump Number	12. Sample Location 12a. IWA	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	14b. Avg	15. Total Air Vol. (liters)	16. # Fibers/Fields Minus Blank	17. Fiber Conc. F/CC
B-1				Field Blank OPP11 30 sec									
B-2				Field Blank OPP1 30sec.									
1				APT	1000	1200	120	10	10	10	1200		
2				APT	1005	1205	130	10	10	10	1300		
3		✓		APT	1010	1220	130	10	10	10	1300		
4		✓		APT	1015	1225	130	10	10	10	1300		
5		✓		APT	1020	1230	130	10	10	10	1300		
6		✓		APT	1025	1235	130	10	10	10	1300		
7		✓		APT	1030	1240	130	10	10	10	1300		
8		✓		APT	1035	1245	130	10	10	10	1300		
9		✓		APT	1040	1250	130	10	10	10	1300		
10		✓		APT	1045	1255	130	10	10	10	1300		
11		✓		APT	1400	1610	130	10	10	10	1300		
12		✓		APT	1405	1615	130	10	10	10	1300		

PII

CHAIN OF CUSTODY

18. Relinquished By:	19. Received By:	20. Date:	21. Time:
I			
II	JP	11/29/01	Today
III			

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

22. Lab Name:	23. Date:	24. Time:
a. Analyzed By:	11/30	12:00
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) 12

26. ATC Project Manager:	27. Result To:	28. Comments:
Fred Burkhardt	Fred Burkhardt Beeper/Phone #'s	

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

NY-1 (1/00)

NYC 9/11 Public Portal Document

ATC ASSOCIATES INC.

Project Memorandum

Subject: 225 Rector Place

Re: Ambient Air Sampling

To: Peter Hoyle
Related Management

From: Fred Burkhardt

Date: November 19, 2001

On November 16, 2001, ATC collected one ambient air sample in each of the apartments listed below to ascertain the presence or absence of airborne asbestos. 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.

Apartments sampled are identified in the following table.

Floor	Apartments	Floor	Apartments
Penthouse	PII	11	
23		10	PII
22		9	
21		8	PII
20		7	
19	PII	6	
18		5	
17		4	
16		3	
15		2	
14	PII	1	
12		Basement	

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/mm^2) 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 project.

Based upon analytical sample results for all samples recording levels 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. If you have any questions or require additional explaination of the information presented please do not hesitate to call me at 212-353-8280.

Thank You.

NYC 9/11 Public Portal Document

ATC ASSOCIATES INC.

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

14 A
0 17

November 17, 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. 5907:

Client: 225 Rector Place
Project Name: 225 Rector Place, NY, NY
Location: Various Sites
Samples received: 11/17/01

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 document, no asbestos structures were detected in any of the seventeen ambient samples submitted from the site. MMI TEM cassettes, Lot No. 00265916, were used. Unfortunately, sample 2 was defective and was not analyzed.

Results reported as Struct/cc are a function of air volume collected in the field and are, as such, not verifiable by this laboratory. This report may be reproduced only in its entirety and not without prior permission of this laboratory. If post-abatement inside samples pass, the response action may be considered to have been completed. The analyses were supervised by Dr. Michael A. Gorycki, Director of Electron Microscopy.

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

Very truly yours,

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

NYC 9/11 Public Portal Document

ATC Associates

104 East 25 Street, New York, NY 10010

Phone: (212) 353-8280 Fax: (212) 353-8306

Attn: Mr. Ben Sallemi
ATC Associates Inc
104 East 25th Street
New York NY 10010

Fax: (212) 353-8306 **Phone:** (212) 353-8280

Project: 225 Rector Place
225 Rector Place

Received: 11/17/01 8:00:00 AM

ATC Group #: 5907

Analysis Date: 11/19/01

Asbestos Fiber Analysis by Transmission Electron Microscopy (TEM) Performed by EPA 40 CFR Part 763 Final Rule (AHERA)

Sample	Volume	Area Analyzed	Non Asb	Asbestos Type(s)	Structures 0.5µ-5	Structures 5µ	Analytical Sensitivity (S/cc)	Asbestos Concentration (S/mm²)	Asbestos Concentration (S/cc)	Notes
1 - 5907 -1	1300.00	0.0674	0	None Detected	0	0	0.0044	<14.83	<0.0044	
2 - 5907 -2	1300.00	0.0674		Not Analyzed			0.0044			Missing Filter
3 - 5907 -3	1300.00	0.0674	0	None Detected	0	0	0.0044	<14.83	<0.0044	
4 - 5907 -4	1300.00	0.0674	0	None Detected	0	0	0.0044	<14.83	<0.0044	
5 - 5907 -5	1300.00	0.0674	0	None Detected	0	0	0.0044	<14.83	<0.0044	
6 - 5907 -6	1300.00	0.0674	0	None Detected	0	0	0.0044	<14.83	<0.0044	
7 - 5907 -7	1300.00	0.0674	0	None Detected	0	0	0.0044	<14.83	<0.0044	
8 - 5907 -8	1300.00	0.0674	0	None Detected	0	0	0.0044	<14.83	<0.0044	

MICHAEL GORYCKI
Analyzed by:

MICHAEL A. GORYCKI, Ph.D.
Approved by:

Disclaimer: The laboratory is not responsible for data reported in structures/cc, which is dependent on volume collected by non-laboratory personnel. This lab is only responsible for data reported in structures/mm². This report may not be reproduced, except in full, without written approval by ATC Associates Inc. This report may not be used to claim product endorsement by NVLAP or any other agency of the U.S. Government. This reports relates only to the samples reported above. Quality control data (including 95% confidence limits and laboratory and analysis' accuracy and precision) is available upon request.

Accredited for NVLAP PLM/TEM #101187-0, NY State ELAP #10879

8

NYC-WTC_000123943

NYC 9/11 Public Portal Document

Attn: Mr. Ben Sallemi
ATC Associates Inc
104 East 25th Street
New York NY 10010
Fax: (212) 353-8306 **Phone:** (212) 353-8280

Project: 225 Rector Place
225 Rector Place

Received: 11/17/01 8:00:00 AM
ATC Group #: 5907
Analysis Date: 11/19/01

Asbestos Fiber Analysis by Transmission Electron Microscopy (TEM) Performed by EPA 40 CFR Part 763 Final Rule (AHERA)

Sample	Volume	Area Analyzed	Non Asb	Asbestos Type(s)	Structures 0.5µ-5	Structures 5µ	Analytical Sensitivity (S/cc)	Asbestos Concentration (S/mm²)	Asbestos Concentration (S/cc)	Notes
9 - 5907 -9	1300.00	0.0674	0	None Detected	0	0	0.0044	<14.83	<0.0044	
10 - 5907 -10	1300.00	0.0674	0	None Detected	0	0	0.0044	<14.83	<0.0044	
11 - 5907 -11	1300.00	0.0674	0	None Detected	0	0	0.0044	<14.83	<0.0044	
12 - 5907 -12	1300.00	0.0674	0	None Detected	0	0	0.0044	<14.83	<0.0044	
13 - 5907 -13	1300.00	0.0674	0	None Detected	0	0	0.0044	<14.83	<0.0044	
14 - 5907 -14	1300.00	0.0674	0	None Detected	0	0	0.0044	<14.83	<0.0044	
15 - 5907 -15	1300.00	0.0674	0	None Detected	0	0	0.0044	<14.83	<0.0044	
16 - 5907 -16	1300.00	0.0674	0	None Detected	0	0	0.0044	<14.83	<0.0044	
17 - 5907 -17	1300.00	0.0674	0	None Detected	0	0	0.0044	<14.83	<0.0044	

MICHAEL GORYCKI
Analyzed by:

MICHAEL A. GORYCKI, Ph.D.
Approved by:

Disclaimer: The laboratory is not responsible for data reported in structures/cc, which is dependent on volume collected by non-laboratory personnel. This lab is only responsible for data reported in structures/mm². This report may not be reproduced, except in full, without written approval by ATC Associates Inc. This report may not be used to claim product endorsement by NVLAP or any other agency of the U.S. Government. This reports relates only to the samples reported above. Quality control data (including 95% confidence limits and laboratory and analysis' accuracy and precision) is available upon request.

Accredited for NVLAP PLM/TEM #101187-0, NY State ELAP #10879

9

NYC 9/11 Public Portal Document

TEM Asbestos (air) Count Sheet

Client Name:	ATC	**Volume (liters):**	1300
Lab Group #:	5907	**Filter Type / Filter Area:**	MCE 385 mm²
Lab Sample #:	1	**Grid Opening Size:**	0.01124
Client Sample #:	1 -	**Area Examined:**	0.06744 mm²
GRID BOX:	551	**Magnification:**	20,000
GRID ID:	22C	**Accelerating Voltage:**	100 KeV
# Grid Openings:	6	**Analysis Date:**	11/17/01

Analysis Performed By: RP
MICHAEL GORYCKI

GO. No	GO. Coord	Structure No	Structure Type F	B	C	M	Length >=05 µ <5µ	>=5µ	ID of Structure N or √ Chrys	Amphibole	Nonasb	Ambig/ND	EDS (Nonadb Elements)
1	J2	NSD											
2	K2	"											
3	R2	"											
4	P6	"											
5	I6	"											
6	D8	"											

Struct = > 0.5µ .> 5:1 Aspect Ratio

√= Positive diffraction pattern properties conforming to laboratory identification criteria observed

√= EDS spectrum conforming to laboratory identification criteria observed

F = Single Fiber
B = Bundle (<3 fibers <1 fiber diameter apart
C = Cluster (>3 Intersections)
M = Matrix
NSD = No Structures Detected

Grid acceptance:

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

AMPHIBOLES
Amosite
Crocidolite
Anthophyllite
Tremolite
Actinolite

Totals

	F	B	C	M	>5µ
Chrysotile					
Amphibole					
Ambiguous					
Non-Asbestos					
Non-Identified					

NYC 9/11 Public Portal Document

TEM Asbestos (air) Count Sheet

Client Name:	ATC	**Volume (liters):**	1300
Lab Group #:	5907	**Filter Type / Filter Area:**	MCE 385 mm²
Lab Sample #:	2	**Grid Opening Size:**	0.01124
Client Sample #:	2	**Area Examined:**	0.06744 mm²
GRID BOX:	[redacted]	**Magnification:**	20,000
GRID ID:	[redacted]	**Accelerating Voltage:**	100 KeV
# Grid Openings:	6	**Analysis Date:**	11/17/01

Analysis Performed By: MICHAEL GORYCKI

GO. No	GO. Coord	Structure No	Structure Type F	B	C	M	Length >=05 µ <5µ	Length >=5µ	ID of Structure N or √ Chrys	Amphibole	Nonasb	Ambig/ND	EDS (Nonadb Elements)
							NO FILTER						

Struct = > 0.5µ .> 5:1 Aspect Ratio

√= Positive diffraction pattern properties conforming to laboratory identification criteria observed

√= EDS spectrum conforming to laboratory identification criteria observed

F = Single Fiber

B = Bundle (<3 fibers <1 fiber diameter apart

C = Cluster (>3 Intersections)

M = Matrix

NSD = No Structures Detected

Grid acceptance:

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

AMPHIBOLES
Amosite
Crocidolite
Anthophyllite
Tremolite
Actinolite

Totals

	F	B	C	M	>5µ
Chrysotile					
Amphibole					
Ambiguous					
Non-Asbestos					
Non-Identified					

NYC 9/11 Public Portal Document

TEM Asbestos (air) Count Sheet

Client Name:	ATC	**Volume (liters):**	1300
Lab Group #:	5907	**Filter Type / Filter Area:**	MCE 385 mm²
Lab Sample #:	3	**Grid Opening Size:**	0.01124
Client Sample #:	3	**Area Examined:**	0.06744 mm²
GRID BOX:	55	**Magnification:**	20,000
GRID ID:	~~3AB~~ 20E	**Accelerating Voltage:**	100 KeV
# Grid Openings:	6	**Analysis Date:**	11/17/01

Analysis Performed By: RD
MICHAEL GORYCKI

GO. No	GO. Coord	Structure No	Structure Type F	B	C	M	Length >=05 µ <5µ	Length >=5µ	ID of Structure N or √ Chrys	Amphibole	Nonasb	Ambig/ND	EDS (Nonadb Elements)
20 1	V2	NSD											
2	P2	〃											
3	I2	〃											
4	J2	〃											
5	F8	〃											
6	P8	〃											
2E													

Struct = > 0.5µ > 5:1 Aspect Ratio

√= Positive diffraction pattern properties conforming to laboratory identification criteria observed

√= EDS spectrum conforming to laboratory identification criteria observed

F = Single Fiber
B = Bundle (<3 fibers <1 fiber diameter apart
C = Cluster (>3 Intersections)
M = Matrix
NSD = No Structures Detected

Grid acceptance:

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

AMPHIBOLES
Amosite
Crocidolite
Anthophyllite
Tremolite
Actinolite

Totals

	F	B	C	M	>5µ
Chrysotile					
Amphibole					
Ambiguous					
Non-Asbestos					
Non-Identified					

NYC 9/11 Public Portal Document

TEM Asbestos (air) Count Sheet

Client Name:	ATC	**Volume (liters):**	1300
Lab Group #:	5907	**Filter Type / Filter Area:**	MCE 385 mm²
Lab Sample #:	4	**Grid Opening Size:**	0.01124
Client Sample #:	4 -	**Area Examined:**	0.06744 mm²
GRID BOX:	551	**Magnification:**	20,000
GRID ID:	3AB	**Accelerating Voltage:**	100 KeV
# Grid Openings:	6	**Analysis Date:**	11/17/01

Analysis Performed By: RP
MICHAEL GORYCKI

GO. No	GO. Coord	Structure No	Structure Type F	B	C	M	Length >=05 µ <5µ	Length >=5µ	ID of Structure N or √ Chrys	Amphibole	Nonasb	Ambig/ND	EDS (Nonadb Elements)
1	I 2	NSD											
2	P 2	4											
3	Q 2	11											
4	I 2	11											
5	Q 2	11											
6	X 2	11											

Struct = > 0.5µ > 5:1 Aspect Ratio

√= Positive diffraction pattern properties conforming to laboratory identification criteria observed

√= EDS spectrum conforming to laboratory identification criteria observed

F = Single Fiber
B = Bundle (<3 fibers <1 fiber diameter apart
C = Cluster (>3 intersections)
M = Matrix
NSD = No Structures Detected

Grid acceptance:

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

AMPHIBOLES
Amosite
Crocidolite
Anthophyllite
Tremolite
Actinolite

Totals

	F	B	C	M	>5µ
Chrysotile					
Amphibole					
Ambiguous					
Non-Asbestos					
Non-Identified					

NYC 9/11 Public Portal Document

TEM Asbestos (air) Count Sheet

Client Name:	ATC	**Volume (liters):**	1300
Lab Group #:	5907	**Filter Type / Filter Area:**	MCE 385 mm²
Lab Sample #:	5	**Grid Opening Size:**	0.01124
Client Sample #:	5 -	**Area Examined:**	0.06744 mm²
GRID BOX:	557	**Magnification:**	20,000
GRID ID:	3CD	**Accelerating Voltage:**	100 KeV
# Grid Openings:	6	**Analysis Date:**	11/17/01

Analysis Performed By: RP
MICHAEL GORYCKI

GO. No	GO. Coord	Structure No	Structure Type F	B	C	M	Length >=05 µ <5µ	Length >=5µ	ID of Structure N or √ Chrys	Amphibole	Nonasb	Ambig/ND	EDS (Nonadb Elements)
1	I2	NSD											
2	P2	11											
3	V2	11											
4	X2	11											
5	Q3	11											
6	J3	11											

Struct = > 0.5µ .> 5:1 Aspect Ratio

√= Positive diffraction pattern properties conforming to laboratory identification criteria observed

√= EDS spectrum conforming to laboratory identification criteria observed

F = Single Fiber
B = Bundle (<3 fibers <1 fiber diameter apart
C = Cluster (>3 Intersections)
M = Matrix
NSD = No Structures Detected

Grid acceptance:

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

AMPHIBOLES
Amosite
Crocidolite
Anthophyllite
Tremolite
Actinolite

Totals

	F	B	C	M	>5µ
Chrysotile					
Amphibole					
Ambiguous					
Non-Asbestos					
Non-Identified					

NYC 9/11 Public Portal Document

TEM Asbestos (air) Count Sheet

Client Name:	ATC	**Volume (liters):**	1300
Lab Group #:	5907	**Filter Type / Filter Area:**	MCE 385 mm²
Lab Sample #:	6	**Grid Opening Size:**	0.01124
Client Sample #:	6	**Area Examined:**	0.06744 mm²
GRID BOX:	551	**Magnification:**	20,000
GRID ID:	3E4A	**Accelerating Voltage:**	100 KeV
# Grid Openings:	6	**Analysis Date:**	11/17/01

Analysis Performed By: RD
MICHAEL GORYCKI

GO. No	GO. Coord	Structure No	Structure Type F	B	C	M	Length >=05 µ <5µ	Length >=5µ	ID of Structure N or √ Chrys	Amphibole	Nonasb	Ambig/ND	EDS (Nonadb Elements)
3E 1	J2	NSD											
2	Q3	11											
3	R8	11											
4	E2	11											
5	J2	11											
6	Q2	11											

Struct = > 0.5µ > 5:1 Aspect Ratio

√= Positive diffraction pattern properties conforming to laboratory identification criteria observed

√= EDS spectrum conforming to laboratory identification criteria observed

F = Single Fiber
B = Bundle (<3 fibers <1 fiber diameter apart
C = Cluster (>3 Intersections)
M = Matrix
NSD = No Structures Detected

Grid acceptance:

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

AMPHIBOLES
Amosite
Crocidolite
Anthophyllite
Tremolite
Actinolite

Totals

	F	B	C	M	>5µ
Chrysotile					
Amphibole					
Ambiguous					
Non-Asbestos					
Non-Identified					

NYC 9/11 Public Portal Document

TEM Asbestos (air) Count Sheet

Client Name:	ATC	**Volume (liters):**	1300
Lab Group #:	5907	**Filter Type / Filter Area:**	MCE 385 mm²
Lab Sample #:	7	**Grid Opening Size:**	0.01124
Client Sample #:	7	**Area Examined:**	0.06744 mm²
GRID BOX:	551	**Magnification:**	20,000
GRID ID:	4BC	**Accelerating Voltage:**	100 KeV
# Grid Openings:	6	**Analysis Date:**	11/17/01

Analysis Performed By: RP
MICHAEL GORYCKI

GO. No	GO. Coord	Structure No	Structure Type F	B	C	M	Length >=05 µ <5µ	Length >=5µ	ID of Structure N or √ Chrys	Amphibole	Nonasb	Ambig/ND	EDS (Nonadb Elements)
1B 1	I 2	NSD											
2	P 2	1											
3	Q 2	4											
4	P 2	4											
5	I 2	11											
6	J 2	1											
1C													

Struct = > 0.5µ .> 5:1 Aspect Ratio

√= Positive diffraction pattern properties conforming to laboratory identification criteria observed

√= EDS spectrum conforming to laboratory identification criteria observed

F = Single Fiber
B = Bundle (<3 fibers <1 fiber diameter apart
C = Cluster (>3 Intersections)
M = Matrix
NSD = No Structures Detected

Grid acceptance:

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

AMPHIBOLES
Amosite
Crocidolite
Anthophyllite
Tremolite
Actinolite

Totals

	F	B	C	M	>5µ
Chrysotile					
Amphibole					
Ambiguous					
Non-Asbestos					
Non-Identified					

NYC 9/11 Public Portal Document

TEM Asbestos (air) Count Sheet

Client Name:	ATC	**Volume (liters):**	1300
Lab Group #:	5907	**Filter Type / Filter Area:**	MCE 385 mm²
Lab Sample #:	8	**Grid Opening Size:**	0.01124
Client Sample #:	8 -	**Area Examined:**	0.06744 mm²
GRID BOX:	537	**Magnification:**	20,000
GRID ID:	4DE	**Accelerating Voltage:**	100 KeV
# Grid Openings:	6	**Analysis Date:**	11/17/01

Analysis Performed By: RD
MICHAEL GORYCKI

GO.		Structure	Structure Type				Length		ID of Structure N or √				EDS
No	Coord	No	F	B	C	M	>=05 µ <5µ	>=5µ	Chrys	Amphibole	Nonasb	Ambig/ND	(Nonadb Elements)
1D 1	X2	NSD											
2	Q2	"											
3	J2	"											
4	J2	"											
5	Q2	"											
6	X2	"											
4E													

Struct = > 0.5µ .> 5:1 Aspect Ratio

√= Positive diffraction pattern properties conforming to laboratory identification criteria observed

√= EDS spectrum conforming to laboratory identification criteria observed

F = Single Fiber
B = Bundle (<3 fibers <1 fiber diameter apart
C = Cluster (>3 Intersections)
M = Matrix
NSD = No Structures Detected

Grid acceptance:

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

AMPHIBOLES
Amosite
Crocidolite
Anthophyllite
Tremolite
Actinolite

Totals

	F	B	C	M	>5µ
Chrysotile					
Amphibole					
Ambiguous					
Non-Asbestos					
Non-Identified					

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TEM Asbestos (air) Count Sheet

Client Name:	ATC	**Volume (liters):**	1300
Lab Group #:	5907	**Filter Type / Filter Area:**	MCE 385 mm²
Lab Sample #:	9	**Grid Opening Size:**	0.01124
Client Sample #:	9	**Area Examined:**	0.06744 mm²
GRID BOX:	551	**Magnification:**	20,000
GRID ID:	5AB	**Accelerating Voltage:**	100 KeV
# Grid Openings:	6	**Analysis Date:**	11/17/01

Analysis Performed By: RP
MICHAEL GORYCKI

GO. No	GO. Coord	Structure No	Structure Type F	B	C	M	Length >=05 µ <5µ	Length >=5µ	ID of Structure N or √ Chrys	Amphibole	Nonasb	Ambig/ND	EDS (Nonadb Elements)
5A 1	V3	NSD											
2	P1	11											
3	N1	11											
4	L2	11											
5	Q2	11											
6	P2	11											
5B													

Struct = > 0.5µ > 5:1 Aspect Ratio

√= Positive diffraction pattern properties conforming to laboratory identification criteria observed

√= EDS spectrum conforming to laboratory identification criteria observed

F = Single Fiber
B = Bundle (<3 fibers <1 fiber diameter apart
C = Cluster (>3 Intersections)
M = Matrix
NSD = No Structures Detected

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

AMPHIBOLES
Amosite
Crocidolite
Anthophyllite
Tremolite
Actinolite

Totals

	F	B	C	M	>5µ
Chrysotile					
Amphibole					
Ambiguous					
Non-Asbestos					
Non-Identified					

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TEM Asbestos (air) Count Sheet

Client Name:	ATC	**Volume (liters):**	1300
Lab Group #:	5907	**Filter Type / Filter Area:**	MCE 385 mm²
Lab Sample #:	10	**Grid Opening Size:**	0.01124
Client Sample #:	10	**Area Examined:**	0.06744 mm²
GRID BOX:	551	**Magnification:**	20,000
GRID ID:	5CD	**Accelerating Voltage:**	100 KeV
# Grid Openings:	6	**Analysis Date:**	11/17/01

Analysis Performed By: RP
MICHAEL GORYCKI

GO. No	GO. Coord	Structure No	Structure Type F	B	C	M	Length >=05 µ <5µ	Length >=5µ	ID of Structure N or √ Chrys	Amphibole	Nonasb	Ambig/ND	EDS (Nonadb Elements)
1	P2	NSD											
3	I2	11											
3	E4	11											
4	Q2	11											
5	J2	11											
6	I2	11											

Struct = > 0.5µ .> 5:1 Aspect Ratio

√= Positive diffraction pattern properties conforming to laboratory identification criteria observed

√= EDS spectrum conforming to laboratory identification criteria observed

F = Single Fiber
B = Bundle (<3 fibers <1 fiber diameter apart
C = Cluster (>3 Intersections)
M = Matrix
NSD = No Structures Detected

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

AMPHIBOLES
Amosite
Crocidolite
Anthophyllite
Tremolite
Actinolite

Totals

	F	B	C	M	>5µ
Chrysotile					
Amphibole					
Ambiguous					
Non-Asbestos					
Non-Identified					

NYC 9/11 Public Portal Document

TEM Asbestos (air) Count Sheet

Client Name:	ATC	**Volume (liters):**	1300
Lab Group #:	5907	**Filter Type / Filter Area:**	MCE 385 mm²
Lab Sample #:	11	**Grid Opening Size:**	0.01124
Client Sample #:	11 -	**Area Examined:**	0.06744 mm²
GRID BOX:	557	**Magnification:**	20,000
GRID ID:	5E6A	**Accelerating Voltage:**	100 KeV
# Grid Openings:	6	**Analysis Date:**	11/17/01

Analysis Performed By: RD
MICHAEL GORYCKI

GO. No	GO. Coord	Structure No	Structure Type F	B	C	M	Length >=05 µ <5µ	Length >=5µ	ID of Structure N or √ Chrys	Amphibole	Nonasb	Ambig/ND	EDS (Nonadb Elements)
1	X2	NSD											
2	Q2	"											
3	J2	"											
4	N3	"											
5	J8	"											
6	J1	"											

Struct = > 0.5µ > 5:1 Aspect Ratio

√= Positive diffraction pattern properties conforming to laboratory identification criteria observed

√= EDS spectrum conforming to laboratory identification criteria observed

F = Single Fiber
B = Bundle (<3 fibers <1 fiber diameter apart
C = Cluster (>3 Intersections)
M = Matrix
NSD = No Structures Detected

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

AMPHIBOLES
Amosite
Crocidolite
Anthophyllite
Tremolite
Actinolite

Totals

	F	B	C	M	>5µ
Chrysotile					
Amphibole					
Ambiguous					
Non-Asbestos					
Non-Identified					

NYC 9/11 Public Portal Document

TEM Asbestos (air) Count Sheet

Client Name:	ATC	**Volume (liters):**	1300
Lab Group #:	5907	**Filter Type / Filter Area:**	MCE 385 mm²
Lab Sample #:	12	**Grid Opening Size:**	0.01124
Client Sample #:	12 -	**Area Examined:**	0.06744 mm²
GRID BOX:	SS1	**Magnification:**	20,000
GRID ID:	6BC	**Accelerating Voltage:**	100 KeV
# Grid Openings:	6	**Analysis Date:**	11/17/01

Analysis Performed By: RD
MICHAEL GORYCKI

GO. No	GO. Coord	Structure No	Structure Type F	B	C	M	Length >=05 µ <5µ	Length >=5µ	ID of Structure N or √ Chrys	Amphibole	Nonasb	Ambig/ND	EDS (Nonadb Elements)
1	P2	NSD											
2	Q2	11											
3	R2	11											
4	N2	11											
5	I4	11											
6	Q9	11											

Struct = > 0.5µ .> 5:1 Aspect Ratio

√= Positive diffraction pattern properties conforming to laboratory identification criteria observed

√= EDS spectrum conforming to laboratory identification criteria observed

F = Single Fiber
B = Bundle (<3 fibers <1 fiber diameter apart
C = Cluster (>3 intersections)
M = Matrix
NSD = No Structures Detected

Grid acceptance:

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

AMPHIBOLES
Amosite
Crocidolite
Anthophyllite
Tremolite
Actinolite

Totals

	F	B	C	M	>5µ
Chrysotile					
Amphibole					
Ambiguous					
Non-Asbestos					
Non-Identified					

NYC 9/11 Public Portal Document

TEM Asbestos (air) Count Sheet

Client Name:	ATC	**Volume (liters):**	1300
Lab Group #:	5907	**Filter Type / Filter Area:**	MCE 385 mm²
Lab Sample #:	13	**Grid Opening Size:**	0.01124
Client Sample #:	13 -	**Area Examined:**	0.06744 mm²
GRID BOX:	537	**Magnification:**	20,000
GRID ID:	6 A E	**Accelerating Voltage:**	100 KeV
# Grid Openings:	6	**Analysis Date:**	11/17/01

Analysis Performed By: RP
MICHAEL GORYCKI

GO. No	GO. Coord	Structure No	Structure Type F	B	C	M	Length >=05 µ <5µ	Length >=5µ	ID of Structure N or √ Chrys	Amphibole	Nonasb	Ambig/ND	EDS (Nonadb Elements)
1	X2	NSD											
2	P6	"											
3	J9	"											
4	J1	"											
5	Q2	"											
6	X3	"											

Struct = > 0.5µ .> 5:1 Aspect Ratio

√= Positive diffraction pattern properties conforming to laboratory identification criteria observed

√= EDS spectrum conforming to laboratory identification criteria observed

F = Single Fiber
B = Bundle (<3 fibers <1 fiber diameter apart
C = Cluster (>3 Intersections)
M = Matrix
NSD = No Structures Detected

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

AMPHIBOLES
Amosite
Crocidolite
Anthophyllite
Tremolite
Actinolite

Totals

	F	B	C	M	>5µ
Chrysotile					
Amphibole					
Ambiguous					
Non-Asbestos					
Non-Identified					

NYC 9/11 Public Portal Document

TEM Asbestos (air) Count Sheet

Client Name:	ATC	**Volume (liters):**	1300
Lab Group #:	5907	**Filter Type / Filter Area:**	MCE 385 mm²
Lab Sample #:	14	**Grid Opening Size:**	0.01124
Client Sample #:	14 -	**Area Examined:**	0.06744 mm²
GRID BOX:	551	**Magnification:**	20,000
GRID ID:	TAB	**Accelerating Voltage:**	100 KeV
# Grid Openings:	6	**Analysis Date:**	11/17/01

Analysis Performed By: RD
MICHAEL GORYCKI

GO. No	GO. Coord	Structure No	Structure Type F	B	C	M	Length >=05 µ <5µ	>=5µ	ID of Structure N or √ Chrys	Amphibole	Nonasb	Ambig/ND	EDS (Nonadb Elements)
7A	1 J2	NSD											
	2 Q2	11											
	3 X2	11											
	4 P8	11											
	5 I8	11											
	6 J8	11											
7B													

Struct = > 0.5µ > 5:1 Aspect Ratio

√= Positive diffraction pattern properties conforming to laboratory identification criteria observed

√= EDS spectrum conforming to laboratory identification criteria observed

F = Single Fiber
B = Bundle (<3 fibers <1 fiber diameter apart
C = Cluster (>3 intersections)
M = Matrix
NSD = No Structures Detected

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

AMPHIBOLES
Amosite
Crocidolite
Anthophyllite
Tremolite
Actinolite

Totals

	F	B	C	M	>5µ
Chrysotile					
Amphibole					
Ambiguous					
Non-Asbestos					
Non-Identified					

NYC 9/11 Public Portal Document

TEM Asbestos (air) Count Sheet

Client Name:	ATC	**Volume (liters):**	1300
Lab Group #:	5907	**Filter Type / Filter Area:**	MCE 385 mm²
Lab Sample #:	15	**Grid Opening Size:**	0.01124
Client Sample #:	15 -	**Area Examined:**	0.06744 mm²
GRID BOX:	551	**Magnification:**	20,000
GRID ID:	202	**Accelerating Voltage:**	100 KeV
# Grid Openings:	6	**Analysis Date:**	11/17/01

Analysis Performed By: RP
MICHAEL GORYCKI

GO.		Structure No	Structure Type				Length		ID of Structure N or √				EDS (Nonadb Elements)
No	Coord		F	B	C	M	>=05 µ <5µ	>=5µ	Chrys	Amphibole	Nonasb	Ambig/ND	
1C 1	J2	NSD											
2	F1	11											
3	P6	11											
4	I8	11											
5	J8	11											
6	Q9	11											
1D													

Struct = > 0.5µ > 5:1 Aspect Ratio

√= Positive diffraction pattern properties conforming to laboratory identification criteria observed

√= EDS spectrum conforming to laboratory identification criteria observed

F = Single Fiber
B = Bundle (<3 fibers <1 fiber diameter apart
C = Cluster (>3 Intersections)
M = Matrix
NSD = No Structures Detected

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

AMPHIBOLES
Amosite
Crocidolite
Anthophyllite
Tremolite
Actinolite

Totals

	F	B	C	M	>5µ
Chrysotile					
Amphibole					
Ambiguous					
Non-Asbestos					
Non-Identified					

NYC 9/11 Public Portal Document

TEM Asbestos (air) Count Sheet

Client Name:	ATC	**Volume (liters):**	1300
Lab Group #:	5907	**Filter Type / Filter Area:**	MCE 385 mm²
Lab Sample #:	16	**Grid Opening Size:**	0.01124
Client Sample #:	16 -	**Area Examined:**	0.06744 mm²
GRID BOX:	551	**Magnification:**	20,000
GRID ID:	7E2A	**Accelerating Voltage:**	100 KeV
# Grid Openings:	6	**Analysis Date:**	11/17/01

Analysis Performed By: RP
MICHAEL GORYCKI

GO. No	GO. Coord	Structure No	Structure Type F	B	C	M	Length >=05 µ <5µ	>=5µ	ID of Structure N or √ Chrys	Amphibole	Nonasb	Ambig/ND	EDS (Nonadb Elements)
1	K7	NSD											
2	J4	"											
3	I4	"											
4	K2	"											
5	Q2	"											
6	J2	"											

Struct = > 0.5µ > 5:1 Aspect Ratio

√= Positive diffraction pattern properties conforming to laboratory identification criteria observed

√= EDS spectrum conforming to laboratory identification criteria observed

F = Single Fiber
B = Bundle (<3 fibers <1 fiber diameter apart
C = Cluster (>3 Intersections)
M = Matrix
NSD = No Structures Detected

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

AMPHIBOLES
Amosite
Crocidolite
Anthophyllite
Tremolite
Actinolite

Totals

	F	B	C	M	>5µ
Chrysotile					
Amphibole					
Ambiguous					
Non-Asbestos					
Non-Identified					

NYC 9/11 Public Portal Document

TEM Asbestos (air) Count Sheet

Client Name:	ATC	**Volume (liters):**	1300
Lab Group #:	5907	**Filter Type / Filter Area:**	MCE 385 mm²
Lab Sample #:	17	**Grid Opening Size:**	0.01124
Client Sample #:	17 -	**Area Examined:**	0.06744 mm²
GRID BOX:	53-1	**Magnification:**	20,000
GRID ID:	2BC	**Accelerating Voltage:**	100 KeV
# Grid Openings:	6	**Analysis Date:**	11/17/01

Analysis Performed By: RD
MICHAEL GORYCKI

GO. No	GO. Coord	Structure No	Structure Type F	B	C	M	Length >=05 µ <5µ	Length >=5µ	ID of Structure N or √ Chrys	Amphibole	Nonasb	Ambig/ND	EDS (Nonadb Elements)
1B	I Z	NSD											
2	P Z	1											
3	Q 7	1											
4	P Z	11											
5	Q Z	11											
6	I Z	11											
3C													

Struct = > 0.5µ > 5:1 Aspect Ratio

√= Positive diffraction pattern properties conforming to laboratory identification criteria observed

√= EDS spectrum conforming to laboratory identification criteria observed

F = Single Fiber
B = Bundle (<3 fibers <1 fiber diameter apart
C = Cluster (>3 Intersections)
M = Matrix
NSD = No Structures Detected

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

AMPHIBOLES
Amosite
Crocidolite
Anthophyllite
Tremolite
Actinolite

Totals

	F	B	C	M	>5µ
Chrysotile					
Amphibole					
Ambiguous					
Non-Asbestos					
Non-Identified					

NYC-WTC_000123962

NYC 9/11 Public Portal Document

AIR MONITORING DATA AND CHAIN OF CUSTODY FORM

5907 11/19 64299-64317

Page _____ of _____

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:
225 Rector PL	2a. Project Address: 225 Rector PL NYNY	8962-15	Tyne Anastasiadis/Dustcity	SD-152
5. Date:	**6. Abatement Location:**	**7. ☐ PCM (0.8 micron MCE)**	**8. ☐ TEM (0.45 micron MCE)**	**9. Type:**
11.16.01		Cassette/Filter Manufacture: X Lot #:	Cassette/Filter Manufacture: MAT Lot #: 00265916	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 12a. IWA	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	14b. Avg	15. Total Air Vol. (liters)	16. # Fibers/Fields Minus Blank	17. Fiber Conc. F/CC
B-1				Field Blank									
B-2				Field Blank									
1		V		APT #	1000	1210	130	10	10	10	1300		
2		V		APT #	1005	1215	130	10	10	10	1300		
3		V		APT #	1010	1220	130	10	10	10	1300		
4		V		APT #	1015	1225	130	10	10	10	1300		
5		V		APT #	1020	1230	130	10	10	10	1300		
6		V		APT #	1025	1235	130	10	10	10	1300		

PII

CHAIN OF CUSTODY

18. Relinquished By:	19. Received By:	20. Date:	21. Time:
I			
II	JD	11/17/19	8am
III			

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

22. Lab Name: ATC-TEM	23. Date:	24. Time:
a. Analyzed By: RPy	11.17	19:00
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 b

26. ATC Project Manager: Fred Berkhardt

27. Result To: Fred Berkhardt
Beeper/Phone #'s _____

28. Comments:

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

NY-1 (1/01)

NYC-WTC_000123963

NYC 9/11 Public Portal Document

AIR MONITORING DATA AND CHAIN OF CUSTODY FORM

ATC ASSOCIATES INC.

Page _____ of _____

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

5707

PROJECT INFORMATION

1. Client:	2. Project Name	3. Project #	4. Project Monitor:	4c. Rotameter Number:
225 Rector PL	2a. Project Address: 225 Rector PL NYNY	3a. Task #	4a. Air Sampler:	SD-152

5. Date:	6. Abatement Location:	7. ☐ PCM (0.8 micron MCE)	8. ☐ TEM (0.45 micron MCE)	9. Type:
11/6-01		Cassette/Filter Manufacture: X Lot # _____	Cassette/Filter Manufacture: MCE Lot # 00265912	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 12a. IWA	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	14b. Avg	15. Total Air Vol. (liters)	16. # Fibers/Fields Minus Blank	17. Fiber Conc. F/CC
				Field Blank									
				Field Blank									
7		V		APT #	1030	1240	130	10	10	10	1300		
8		V		APT #	1035	1245	130	10	10	10	1300		
9		V		APT #	1040	1250	130	10	10	10	1300		
10		V		APT #	1400	1610	130	10	10	10	1300		
11		V		APT #	1405	1615	130	10	10	10	1300		
12		V		APT #	1410	1620	130	10	10	10	1300		

PII

CHAIN OF CUSTODY

	18. Relinquished By:	19. Received By:	20. Date:	21. Time:
I				
II		JE	11/7/01	8am
III				

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

22. Lab Name: ATC-TEM	23. Date:	24. Time:
a. Analyzed By: RRy	11.17	19:00
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 6

26. ATC Project Manager: Fred Berkhardt

27. Result To: Fred Berkhardt
Beeper/Phone #'s _____

28. Comments:

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

NY-1 (1/01)

NYC-WTC_000123964

NYC 9/11 Public Portal Document

AIR MONITORING DATA AND CHAIN OF CUSTODY FORM

5907

Page _____ of _____

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:
225 Rector PL	2a. Project Address: 225 Rector PL NYNY	09622-15	Ynez Amesti/Russell	SD-152
		3a. Task #	4a. Air Sampler:	

5. Date:	6. Abatement Location:	7. ☐ PCM (0.8 micron MCE)	8. ☐ TEM (0.45 micron MCE)	9. Type:	
11/16-01		Cassette/Filter Manufacture ☒	Cassette/Filter Manufacture MAT	a. ☐ Background	c. ☐ Abatement
		Lot # _____	Lot # 0265916	b. ☐ Pre-Abate	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 12a. IWA	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	14b. Avg	15. Total Air Vol. (liters)	16. # Fibers/Fields Minus Blank	17. Fiber Conc. F/CC
				Field Blank									
				Field Blank									
13		V		APT #	1415	1625	130	10	10	10	1300		
14		V		APT #	1420	1630	130	10	10	10	1300		
15		V		APT #	1425	1635	130	10	10	10	1300		
16		V		APT #	1430	1640	130	10	10	10	1300		
17		V		APT #	1435	1645	130	10	10	10	1300		

PII

CHAIN OF CUSTODY

	18. Relinquished By:	19. Received By:	20. Date:	21. Time:
I				
II		JD	11/17/01	9am
III				

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

22. Lab Name:	ATC-TEM	23. Date:	24. Time:
a. Analyzed By:	RRW	11.17	19:00
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

26. ATC Project Manager:	27. Result To:	28. Comments:
Fred Berkhardt	Fred Berkhardt	
	Beeper/Phone #'s _____	

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

NY-1 (1/01)

NYC 9/11 Public Portal Document

ATC ASSOCIATES INC.

Project Memorandum

Subject: 225 Rector Place

Re: Ambient Air Sampling

To: Peter Hoyle
Related Management

From: Fred Burkhardt

Date: November 19, 2001

On November 15, 2001, ATC collected one ambient air sample in each of the apartments listed below to ascertain the presence or absence of airborne asbestos. 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.

Apartments sampled are identified in the following table.

Floor	Apartments	Floor	Apartments
Penthouse		11	
23		10	
22		9	
21		8	
20		7	
19		6	
18	PII	5	PII
17		4	
16		3	
15		2	
14		1	
12		Basement	

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/mm^2) 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 project.

Based upon analytical sample results for all samples recording levels 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. If you have any questions or require additional explaination of the information presented please do not hesitate to call me at 212-353-8280.

Thank You.

NYC 9/11 Public Portal Document

ATC ASSOCIATES INC.

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

November 16, 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. 5901:

Client: 225 Rector Place
Project Name: 335 Rector Place, NY, NY
Location: Various Sites
Samples received: 11/16/01

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 document, no asbestos structures were detected in any of the twenty ambient samples submitted from the site. MMI TEM cassettes, Lot No. 00265916, were used.

Results reported as Struct/cc are a function of air volume collected in the field and are, as such, not verifiable by this laboratory. This report may be reproduced only in its entirety and not without prior permission of this laboratory. If post-abatement inside samples pass, the response action may be considered to have been completed. The analyses were supervised by Dr. Michael A. Gorycki, Director of Electron Microscopy.

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

Very truly yours,

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

NYC 9/11 Public Portal Document

ATC Associates

104 East 25 Street, New York, NY 10010

Phone: (212) 353-8280 Fax: (212) 353-8306

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

Fax: (212) 353-8306 **Phone:** (212) 353-8280

Project: 225 Rector Place
225 Rector Place , New York , NY.

Received: 11/16/01 8:00:00 AM

ATC Group #: 5901

Analysis Date: 11/16/01

Asbestos Fiber Analysis by Transmission Electron Microscopy (TEM) Performed by EPA 40 CFR Part 763 Final Rule (AHERA)

Sample	Volume	Area Analyzed	Non Asb	Asbestos Type(s)	Structures 0.5µ-5	Structures 5µ	Analytical Sensitivity (S/cc)	Asbestos Concentration (S/mm²)	Asbestos Concentration (S/cc)	Notes
1 - 5901 -1	1300.00	0.0674	0	None Detected	0	0	0.0044	<14.83	<0.0044	
2 - 5901 -2	1300.00	0.0674	0	None Detected	0	0	0.0044	<14.83	<0.0044	
3 - 5901 -3	1300.00	0.0674	0	None Detected	0	0	0.0044	<14.83	<0.0044	
4 - 5901 -4	1300.00	0.0674	0	None Detected	0	0	0.0044	<14.83	<0.0044	
5 - 5901 -5	1300.00	0.0674	0	None Detected	0	0	0.0044	<14.83	<0.0044	
6 - 5901 -6	1300.00	0.0674	0	None Detected	0	0	0.0044	<14.83	<0.0044	
7 - 5901 -7	1300.00	0.0674	0	None Detected	0	0	0.0044	<14.83	<0.0044	
8 - 5901 -8	1300.00	0.0674	0	None Detected	0	0	0.0044	<14.83	<0.0044	

ROMAN PEYSAKHOV
Analyzed by: RPey

MICHAEL A. GORYCKI, Ph.D.
Approved by:

Disclaimer: The laboratory is not responsible for data reported in structures/cc, which is dependent on volume collected by non-laboratory personnel. This lab is only responsible for data reported in structures/mm². This report may not be reproduced, except in full, without written approval by ATC Associates Inc. This report may not be used to claim product endorsement by NVLAP or any other agency of the U.S. Government. This reports relates only to the samples reported above. Quality control data (including 95% confidence limits and laboratory and analysis' accuracy and precision) is available upon request.

Accredited for NVLAP PLM/TEM #101187-0, NY State ELAP #10879

NYC-WTC_000123967

NYC 9/11 Public Portal Document

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

Fax: (212) 353-8306 **Phone:** (212) 353-8280

Project: 225 Rector Place
225 Rector Place , New York , NY.

Received: 11/16/01 8:00:00 AM

ATC Group #: 5901

Analysis Date: 11/16/01

Asbestos Fiber Analysis by Transmission Electron Microscopy (TEM) Performed by EPA 40 CFR Part 763 Final Rule (AHERA)

Sample	Volume	Area Analyzed	Non Asb	Asbestos Type(s)	Structures 0.5µ-5	Structures 5µ	Analytical Sensitivity (S/cc)	Asbestos Concentration (S/mm²)	Asbestos Concentration (S/cc)	Notes
9 - 5901 -9	1300.00	0.0674	0	None Detected	0	0	0.0044	<14.83	<0.0044	
10 - 5901 -10	1300.00	0.0674	0	None Detected	0	0	0.0044	<14.83	<0.0044	
11 - 5901 -11	1300.00	0.0674	0	None Detected	0	0	0.0044	<14.83	<0.0044	
12 - 5901 -12	1300.00	0.0674	0	None Detected	0	0	0.0044	<14.83	<0.0044	
13 - 5901 -13	1300.00	0.0674	0	None Detected	0	0	0.0044	<14.83	<0.0044	
14 - 5901 -14	1300.00	0.0674	0	None Detected	0	0	0.0044	<14.83	<0.0044	
15 - 5901 -15	1300.00	0.0674	0	None Detected	0	0	0.0044	<14.83	<0.0044	
16 - 5901 -16	1300.00	0.0674	0	None Detected	0	0	0.0044	<14.83	<0.0044	
17 - 5901 -17	1300.00	0.0674	0	None Detected	0	0	0.0044	<14.83	<0.0044	
18 - 5901 -18	1300.00	0.0674	0	None Detected	0	0	0.0044	<14.83	<0.0044	

ROMAN PEYSAKHOV
Analyzed by: RPey

MICHAEL A. GORYCKI, Ph.D.
Approved by:

Disclaimer: The laboratory is not responsible for data reported in structures/cc, which is dependent on volume collected by non-laboratory personnel. This lab is only responsible for data reported in structures/mm². This report may not be reproduced, except in full, without written approval by ATC Associates Inc. This report may not be used to claim product endorsement by NVLAP or any other agency of the U.S. Government. This reports relates only to the samples reported above. Quality control data (including 95% confidence limits and laboratory and analysis' accuracy and precision) is available upon request.

Accredited for NVLAP PLM/TEM #101187-0, NY State ELAP #10879

NYC 9/11 Public Portal Document

Attn: Mr. Fred Burkhardt
ATC Associates Inc
104 East 25th Street
New York NY 10010
Fax: (212) 353-8306 **Phone:** (212) 353-8280

Received: 11/16/01 8:00:00 AM
ATC Group #: 5901
Analysis Date: 11/16/01

Project: 225 Rector Place
225 Rector Place , New York , NY.

Asbestos Fiber Analysis by Transmission Electron Microscopy (TEM) Performed by EPA 40 CFR Part 763 Final Rule (AHERA)

Sample	Volume	Area Analyzed	Non Asb	Asbestos Type(s)	Structures 0.5µ-5	Structures 5µ	Analytical Sensitivity (S/cc)	Asbestos Concentration (S/mm²)	Asbestos Concentration (S/cc)	Notes
19 - 5901 -19	1300.00	0.0674	0	None Detected	0	0	0.0044	<14.83	<0.0044	
20 - 5901 -20	1300.00	0.0674	0	None Detected	0	0	0.0044	<14.83	<0.0044	

ROMAN PEYSAKHOV
Analyzed by: RRuy

MICHAEL A. GORYCKI, Ph.D.
Approved by:

Disclaimer: The laboratory is not responsible for data reported in structures/cc, which is dependent on volume collected by non-laboratory personnel. This lab is only responsible for data reported in structures/mm². This report may not be reproduced, except in full, without written approval by ATC Associates Inc. This report may not be used to claim product endorsement by NVLAP or any other agency of the U.S. Government. This reports relates only to the samples reported above. Quality control data (including 95% confidence limits and laboratory and analysis' accuracy and precision) is available upon request.

Accredited for NVLAP PLM/TEM #101187-0, NY State ELAP #10879

2

NYC-WTC_000123969

NYC 9/11 Public Portal Document

TEM Asbestos (air) Count Sheet

Client Name:	ATC	**Volume (liters):**	1300
Lab Group #:	5901	**Filter Type / Filter Area:**	MCE 385 mm²
Lab Sample #:	1	**Grid Opening Size:**	0.01124
Client Sample #:	1 -	**Area Examined:**	0.06744 mm²
GRID BOX:	542	**Magnification:**	20,000
GRID ID:	ZBC	**Accelerating Voltage:**	100 KeV
# Grid Openings:	6	**Analysis Date:**	11/16/01

Analysis Performed By: RP
ROMAN PEYSAKHOV

GO. No	GO. Coord	Structure No	Structure Type F	B	C	M	Length >=05 µ <5µ	Length >=5µ	ID of Structure N or √ Chrys	Amphibole	Nonasb	Ambig/ND	EDS (Nonadb Elements)
1	R2	NSD											
2	J2	"											
3	E2	"											
4	H3	"											
5	N3	"											
6	M3	"											

Struct = > 0.5µ > 5:1 Aspect Ratio

√= Positive diffraction pattern properties conforming to laboratory identification criteria observed

√= EDS spectrum conforming to laboratory identification criteria observed

F = Single Fiber
B = Bundle (<3 fibers <1 fiber diameter apart
C = Cluster (>3 Intersections)
M = Matrix
NSD = No Structures Detected

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

AMPHIBOLES
Amosite
Crocidolite
Anthophyllite
Tremolite
Actinolite

Totals

	F	B	C	M	>5µ
Chrysotile					
Amphibole					
Ambiguous					
Non-Asbestos					
Non-Identified					

NYC 9/11 Public Portal Document

TEM Asbestos (air) Count Sheet

Client Name:	ATC	**Volume (liters):**	1300
Lab Group #:	5901	**Filter Type / Filter Area:**	MCE 385 mm²
Lab Sample #:	2	**Grid Opening Size:**	0.01124
Client Sample #:	2	**Area Examined:**	0.06744 mm²
GRID BOX:	542	**Magnification:**	20,000
GRID ID:	2AE	**Accelerating Voltage:**	100 KeV
# Grid Openings:	6	**Analysis Date:**	11/16/01

Analysis Performed By: RP
ROMAN PEYSAKHOV

GO. No	GO. Coord	Structure No	Structure Type F	B	C	M	Length >=05 µ <5µ	Length >=5µ	ID of Structure N or √ Chrys	Amphibole	Nonasb	Ambig/ND	EDS (Nonadb Elements)
1	E4	NSD											
2	J1	"											
3	Q3	"											
4	X3	"											
5	V3	"											
6	N9	"											

Struct = > 0.5µ > 5:1 Aspect Ratio

√= Positive diffraction pattern properties conforming to laboratory identification criteria observed

√= EDS spectrum conforming to laboratory identification criteria observed

F = Single Fiber
B = Bundle (<3 fibers <1 fiber diameter apart
C = Cluster (>3 Intersections)
M = Matrix
NSD = No Structures Detected

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

AMPHIBOLES
Amosite
Crocidolite
Anthophyllite
Tremolite
Actinolite

Totals

	F	B	C	M	>5µ
Chrysotile					
Amphibole					
Ambiguous					
Non-Asbestos					
Non-Identified					

NYC 9/11 Public Portal Document

TEM Asbestos (air) Count Sheet

Client Name:	ATC	**Volume (liters):**	1300
Lab Group #:	5901	**Filter Type / Filter Area:**	MCE 385 mm²
Lab Sample #:	3	**Grid Opening Size:**	0.01124
Client Sample #:	3 -	**Area Examined:**	0.06744 mm²
GRID BOX:	547	**Magnification:**	20,000
GRID ID:	3A B	**Accelerating Voltage:**	100 KeV
# Grid Openings:	6	**Analysis Date:**	11/16/01

Analysis Performed By: RP
ROMAN PEYSAKHOV

GO. No	GO. Coord	Structure No	Structure Type F	B	C	M	Length >=05 µ <5µ	Length >=5µ	ID of Structure N or √ Chrys	Amphibole	Nonasb	Ambig/ND	EDS (Nonadb Elements)
3A 1	J6	NSD											
2	I6	"											
3	H9	"											
4	H7	"											
3B 5	P7	"											
6	N7	"											

Struct = > 0.5µ > 5:1 Aspect Ratio

√= Positive diffraction pattern properties conforming to laboratory identification criteria observed

√= EDS spectrum conforming to laboratory identification criteria observed

F = Single Fiber
B = Bundle (<3 fibers <1 fiber diameter apart
C = Cluster (>3 Intersections)
M = Matrix
NSD = No Structures Detected

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

AMPHIBOLES
Amosite
Crocidolite
Anthophyllite
Tremolite
Actinolite

Totals

	F	B	C	M	>5µ
Chrysotile					
Amphibole					
Ambiguous					
Non-Asbestos					
Non-Identified					

NYC 9/11 Public Portal Document

TEM Asbestos (air) Count Sheet

Client Name:	ATC	**Volume (liters):**	1300
Lab Group #:	5901	**Filter Type / Filter Area:**	MCE 385 mm²
Lab Sample #:	4	**Grid Opening Size:**	0.01124
Client Sample #:	4 -	**Area Examined:**	0.06744 mm²
GRID BOX:	542	**Magnification:**	20,000
GRID ID:	300	**Accelerating Voltage:**	100 KeV
# Grid Openings:	6	**Analysis Date:**	11/16/01

Analysis Performed By: RP
ROMAN PEYSAKHOV

GO. No	GO. Coord	Structure No	Structure Type F	B	C	M	Length >=05 µ <5µ	Length >=5µ	ID of Structure N or √ Chrys	Amphibole	Nonasb	Ambig/ND	EDS (Nonadb Elements)
1	J6	NSD											
2	I6	"											
3	X2	"											
4	R7	"											
5	I7	"											
6	X1	"											

3C
3D

Struct = > 0.5µ > 5:1 Aspect Ratio

√= Positive diffraction pattern properties conforming to laboratory identification criteria observed

√= EDS spectrum conforming to laboratory identification criteria observed

F = Single Fiber
B = Bundle (<3 fibers <1 fiber diameter apart
C = Cluster (>3 Intersections)
M = Matrix
NSD = No Structures Detected

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

AMPHIBOLES
Amosite
Crocidolite
Anthophyllite
Tremolite
Actinolite

Totals

	F	B	C	M	>5µ
Chrysotile					
Amphibole					
Ambiguous					
Non-Asbestos					
Non-Identified					

NYC 9/11 Public Portal Document

TEM Asbestos (air) Count Sheet

Client Name:	ATC	**Volume (liters):**	1300
Lab Group #:	5901	**Filter Type / Filter Area:**	MCE 385 mm²
Lab Sample #:	5	**Grid Opening Size:**	0.01124
Client Sample #:	5 -	**Area Examined:**	0.06744 mm²
GRID BOX:	542	**Magnification:**	20,000
GRID ID:	3E4A	**Accelerating Voltage:**	100 KeV
# Grid Openings:	6	**Analysis Date:**	11/16/01

Analysis Performed By: RP
ROMAN PEYSAKHOV

GO. No	GO. Coord	Structure No	Structure Type F	B	C	M	Length >=05 µ <5µ	Length >=5µ	ID of Structure N or √ Chrys	Amphibole	Nonasb	Ambig/ND	EDS (Nonadb Elements)
1	V2	NSD											
2	P2	"											
3	J1	"											
4	R1	"											
5	Y1	"											
6	S1	"											

Struct = > 0.5µ > 5:1 Aspect Ratio

√= Positive diffraction pattern properties conforming to laboratory identification criteria observed

√= EDS spectrum conforming to laboratory identification criteria observed

F = Single Fiber
B = Bundle (<3 fibers <1 fiber diameter apart
C = Cluster (>3 Intersections)
M = Matrix
NSD = No Structures Detected

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

AMPHIBOLES
Amosite
Crocidolite
Anthophyllite
Tremolite
Actinolite

Totals

	F	B	C	M	>5µ
Chrysotile					
Amphibole					
Ambiguous					
Non-Asbestos					
Non-Identified					

NYC 9/11 Public Portal Document

TEM Asbestos (air) Count Sheet

Client Name:	ATC	**Volume (liters):**	1300
Lab Group #:	5901	**Filter Type / Filter Area:**	MCE 385 mm²
Lab Sample #:	6	**Grid Opening Size:**	0.01124
Client Sample #:	6 -	**Area Examined:**	0.06744 mm²
GRID BOX:	5 4 Z	**Magnification:**	20,000
GRID ID:	4 B C	**Accelerating Voltage:**	100 KeV
# Grid Openings:	6	**Analysis Date:**	11/16/01

Analysis Performed By: RP

ROMAN PEYSAKHOV

GO. No	GO. Coord	Structure No	Structure Type F	B	C	M	Length >=05 µ <5µ	Length >=5µ	ID of Structure N or √ Chrys	Amphibole	Nonasb	Ambig/ND	EDS (Nonadb Elements)
1	Q3	NSD											
2	I8	"											
3	C9	"											
4	J1	"											
5	I1	"											
6	H1	"											

Struct = > 0.5µ > 5:1 Aspect Ratio

√= Positive diffraction pattern properties conforming to laboratory identification criteria observed

√= EDS spectrum conforming to laboratory identification criteria observed

F = Single Fiber
B = Bundle (<3 fibers <1 fiber diameter apart
C = Cluster (>3 intersections)
M = Matrix
NSD = No Structures Detected

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

AMPHIBOLES
Amosite
Crocidolite
Anthophyllite
Tremolite
Actinolite

Totals

	F	B	C	M	>5µ
Chrysotile					
Amphibole					
Ambiguous					
Non-Asbestos					
Non-Identified					

NYC 9/11 Public Portal Document

TEM Asbestos (air) Count Sheet

Client Name:	ATC	**Volume (liters):**	1300
Lab Group #:	5901	**Filter Type / Filter Area:**	MCE 385 mm²
Lab Sample #:	7	**Grid Opening Size:**	0.01124
Client Sample #:	7 -	**Area Examined:**	0.06744 mm²
GRID BOX:	54 Z	**Magnification:**	20,000
GRID ID:	VAE	**Accelerating Voltage:**	100 KeV
# Grid Openings:	6	**Analysis Date:**	11/16/01

Analysis Performed By: RP

ROMAN PEYSAKHOV

GO. No	GO. Coord	Structure No	Structure Type F	B	C	M	Length >=05 µ <5µ	Length >=5µ	ID of Structure N or √ Chrys	Amphibole	Nonasb	Ambig/ND	EDS (Nonadb Elements)
1	R2	NSD											
2	J6	"											
3	E7	"											
4	N3	"											
5	P7	"											
6	V7	"											

Struct = > 0.5µ > 5:1 Aspect Ratio

√= Positive diffraction pattern properties conforming to laboratory identification criteria observed

√= EDS spectrum conforming to laboratory identification criteria observed

F = Single Fiber
B = Bundle (<3 fibers <1 fiber diameter apart
C = Cluster (>3 Intersections)
M = Matrix
NSD = No Structures Detected

Grid acceptance:

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

AMPHIBOLES
Amosite
Crocidolite
Anthophyllite
Tremolite
Actinolite

Totals

	F	B	C	M	>5µ
Chrysotile					
Amphibole					
Ambiguous					
Non-Asbestos					
Non-Identified					

NYC 9/11 Public Portal Document

TEM Asbestos (air) Count Sheet

Client Name:	ATC	**Volume (liters):**	1300
Lab Group #:	5901	**Filter Type / Filter Area:**	MCE 385 mm²
Lab Sample #:	8	**Grid Opening Size:**	0.01124
Client Sample #:	8 -	**Area Examined:**	0.06744 mm²
GRID BOX:	542	**Magnification:**	20,000
GRID ID:	5AB	**Accelerating Voltage:**	100 KeV
# Grid Openings:	6	**Analysis Date:**	11/16/01

Analysis Performed By: RP
ROMAN PEYSAKHOV

GO. No	GO. Coord	Structure No	Structure Type F	B	C	M	Length >=05 µ <5µ	Length >=5µ	ID of Structure N or √ Chrys	Amphibole	Nonasb	Ambig/ND	EDS (Nonadb Elements)
1	R7	NSD											
2	J6	"											
3	D9	"											
4	K1	"											
5	V1	"											
6	P1	"											

Struct = > 0.5µ > 5:1 Aspect Ratio

√= Positive diffraction pattern properties conforming to laboratory identification criteria observed

√= EDS spectrum conforming to laboratory identification criteria observed

F = Single Fiber
B = Bundle (<3 fibers <1 fiber diameter apart
C = Cluster (>3 intersections)
M = Matrix
NSD = No Structures Detected

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

AMPHIBOLES
Amosite
Crocidolite
Anthophyllite
Tremolite
Actinolite

Totals

	F	B	C	M	>5µ
Chrysotile					
Amphibole					
Ambiguous					
Non-Asbestos					
Non-Identified					

NYC 9/11 Public Portal Document

TEM Asbestos (air) Count Sheet

Client Name:	ATC	**Volume (liters):**	1300
Lab Group #:	5901	**Filter Type / Filter Area:**	MCE 385 mm²
Lab Sample #:	9	**Grid Opening Size:**	0.01124
Client Sample #:	9 -	**Area Examined:**	0.06744 mm²
GRID BOX:	542	**Magnification:**	20,000
GRID ID:	5CQ	**Accelerating Voltage:**	100 KeV
# Grid Openings:	6	**Analysis Date:**	11/16/01

Analysis Performed By: RP
ROMAN PEYSAKHOV

GO. No	GO. Coord	Structure No	Structure Type F	B	C	M	Length >=05 µ <5µ	Length >=5µ	ID of Structure N or √ Chrys	Amphibole	Nonasb	Ambig/ND	EDS (Nonadb Elements)
1	X2	NSD											
2	Q2	"											
3	J2	"											
4	V4	"											
5	P4	"											
6	I4	"											

Struct = > 0.5µ > 5:1 Aspect Ratio

√= Positive diffraction pattern properties conforming to laboratory identification criteria observed

√= EDS spectrum conforming to laboratory identification criteria observed

F = Single Fiber
B = Bundle (<3 fibers <1 fiber diameter apart
C = Cluster (>3 Intersections)
M = Matrix
NSD = No Structures Detected

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

AMPHIBOLES
Amosite
Crocidolite
Anthophyllite
Tremolite
Actinolite

Totals

	F	B	C	M	>5µ
Chrysotile					
Amphibole					
Ambiguous					
Non-Asbestos					
Non-Identified					

NYC 9/11 Public Portal Document

TEM Asbestos (air) Count Sheet

Client Name:	ATC	**Volume (liters):**	1300
Lab Group #:	5901	**Filter Type / Filter Area:**	MCE 385 mm²
Lab Sample #:	10	**Grid Opening Size:**	0.01124
Client Sample #:	10 -	**Area Examined:**	0.06744 mm²
GRID BOX:	542	**Magnification:**	20,000
GRID ID:	5E6A	**Accelerating Voltage:**	100 KeV
# Grid Openings:	6	**Analysis Date:**	11/16/01

Analysis Performed By: RP
ROMAN PEYSAKHOV

GO.		Structure No	Structure Type				Length		ID of Structure N or √				EDS (Nonadb Elements)
No	Coord		F	B	C	M	>=05 µ <5µ	>=5µ	Chrys	Amphibole	Nonasb	Ambig/ND	
1	J2	NSD											
2	I2	"											
3	H2	"											
4	G9	"											
5	J9	"											
6	E9	"											

Struct = > 0.5µ > 5:1 Aspect Ratio

√= Positive diffraction pattern properties conforming to laboratory identification criteria observed

√= EDS spectrum conforming to laboratory identification criteria observed

F = Single Fiber
B = Bundle (<3 fibers <1 fiber diameter apart
C = Cluster (>3 Intersections)
M = Matrix
NSD = No Structures Detected

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

AMPHIBOLES
Amosite
Crocidolite
Anthophyllite
Tremolite
Actinolite

Totals

	F	B	C	M	>5µ
Chrysotile					
Amphibole					
Ambiguous					
Non-Asbestos					
Non-Identified					

NYC 9/11 Public Portal Document

TEM Asbestos (air) Count Sheet

Client Name:	ATC	**Volume (liters):**	1300
Lab Group #:	5901	**Filter Type / Filter Area:**	MCE 385 mm²
Lab Sample #:	11	**Grid Opening Size:**	0.01124
Client Sample #:	11	**Area Examined:**	0.06744 mm²
GRID BOX:	542	**Magnification:**	20,000
GRID ID:	GBC	**Accelerating Voltage:**	100 KeV
# Grid Openings:	6	**Analysis Date:**	11/16/01

Analysis Performed By: RP
ROMAN PEYSAKHOV

GO. No	GO. Coord	Structure No	Structure Type F	B	C	M	Length >=05 µ <5µ	Length >=5µ	ID of Structure N or √ Chrys	Amphibole	Nonasb	Ambig/ND	EDS (Nonadb Elements)
B 1	P8	NSD											
2	I8	"											
3	D8	"											
4	V7	"											
5	Y9	"											
6C	6P6	"											

Struct = > 0.5µ .> 5:1 Aspect Ratio

√= Positive diffraction pattern properties conforming to laboratory identification criteria observed

√= EDS spectrum conforming to laboratory identification criteria observed

F = Single Fiber.
B = Bundle (<3 fibers <1 fiber diameter apart
C = Cluster (>3 intersections)
M = Matrix
NSD = No Structures Detected

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

AMPHIBOLES
Amosite
Crocidolite
Anthophyllite
Tremolite
Actinolite

Totals

	F	B	C	M	>5µ
Chrysotile					
Amphibole					
Ambiguous					
Non-Asbestos					
Non-Identified					

NYC 9/11 Public Portal Document

TEM Asbestos (air) Count Sheet

Client Name:	ATC	**Volume (liters):**	1300
Lab Group #:	5901	**Filter Type / Filter Area:**	MCE 385 mm²
Lab Sample #:	12	**Grid Opening Size:**	0.01124
Client Sample #:	12 -	**Area Examined:**	0.06744 mm²
GRID BOX:	SYZ	**Magnification:**	20,000
GRID ID:	6XE	**Accelerating Voltage:**	100 KeV
# Grid Openings:	6	**Analysis Date:**	11/16/01

Analysis Performed By: RP
ROMAN PEYSAKHOV

GO. No : Coord	Structure No	Structure Type F	B	C	M	Length >=05 µ <5µ	>=5µ	ID of Structure N or √ Chrys	Amphibole	Nonasb	Ambig/ND	EDS (Nonadb Elements)
1 PZ	NSD											
2 J4	"											
3 Q3	"											
4 N1	"											
5 I1	"											
6 J1	"											

Struct = > 0.5µ > 5:1 Aspect Ratio

√= Positive diffraction pattern properties conforming to laboratory identification criteria observed

√= EDS spectrum conforming to laboratory identification criteria observed

F = Single Fiber
B = Bundle (<3 fibers <1 fiber diameter apart
C = Cluster (>3 intersections)
M = Matrix
NSD = No Structures Detected

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

AMPHIBOLES
Amosite
Crocidolite
Anthophyllite
Tremolite
Actinolite

Totals

	F	B	C	M	>5µ
Chrysotile					
Amphibole					
Ambiguous					
Non-Asbestos					
Non-Identified					

NYC 9/11 Public Portal Document

TEM Asbestos (air) Count Sheet

Client Name:	ATC	**Volume (liters):**	1300
Lab Group #:	5901	**Filter Type / Filter Area:**	MCE 385 mm²
Lab Sample #:	13	**Grid Opening Size:**	0.01124
Client Sample #:	13 -	**Area Examined:**	0.06744 mm²
GRID BOX:	542	**Magnification:**	20,000
GRID ID:	7AB	**Accelerating Voltage:**	100 KeV
# Grid Openings:	6	**Analysis Date:**	11/16/01

Analysis Performed By: RD
ROMAN PEYSAKHOV

GO. No	GO. Coord	Structure No	Structure Type F	B	C	M	Length >=05 µ <5µ	>=5µ	ID of Structure N or √ Chrys	Amphibole	Nonasb	Ambig/ND	EDS (Nonadb Elements)
7A 1	E8	NSD											
2	D8	"											
3	I8	"											
/ 4	Q3	"											
5	P1	"											
7B 6	N8	"											

Struct = > 0.5µ > 5:1 Aspect Ratio

√= Positive diffraction pattern properties conforming to laboratory identification criteria observed

√= EDS spectrum conforming to laboratory identification criteria observed

F = Single Fiber
B = Bundle (<3 fibers <1 fiber diameter apart
C = Cluster (>3 intersections)
M = Matrix
NSD = No Structures Detected

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

AMPHIBOLES
Amosite
Crocidolite
Anthophyllite
Tremolite
Actinolite

Totals

	F	B	C	M	>5µ
Chrysotile					
Amphibole					
Ambiguous					
Non-Asbestos					
Non-Identified					

NYC 9/11 Public Portal Document

TEM Asbestos (air) Count Sheet

Client Name:	ATC	**Volume (liters):**	1300
Lab Group #:	5901	**Filter Type / Filter Area:**	MCE 385 mm²
Lab Sample #:	14	**Grid Opening Size:**	0.01124
Client Sample #:	14 -	**Area Examined:**	0.06744 mm²
GRID BOX:	542	**Magnification:**	20,000
GRID ID:	7CD	**Accelerating Voltage:**	100 KeV
# Grid Openings:	6	**Analysis Date:**	11/16/01

Analysis Performed By: RP
ROMAN PEYSAKHOV

GO. No	GO. Coord	Structure No	Structure Type F	B	C	M	Length >=05 µ <5µ	Length >=5µ	ID of Structure N or √ Chrys	Amphibole	Nonasb	Ambig/ND	EDS (Nonadb Elements)
7C 1	K1	NSD											
2	E8	"											
3	D8	"											
4	X3	"											
5	U3	"											
7D 6	T3	"											

Struct = > 0.5µ > 5:1 Aspect Ratio

√= Positive diffraction pattern properties conforming to laboratory identification criteria observed

√= EDS spectrum conforming to laboratory identification criteria observed

F = Single Fiber
B = Bundle (<3 fibers <1 fiber diameter apart
C = Cluster (>3 Intersections)
M = Matrix
NSD = No Structures Detected

Grid acceptance:

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

AMPHIBOLES
Amosite
Crocidolite
Anthophyllite
Tremolite
Actinolite

Totals

	F	B	C	M	>5µ
Chrysotile					
Amphibole					
Ambiguous					
Non-Asbestos					
Non-Identified					

NYC 9/11 Public Portal Document

TEM Asbestos (air) Count Sheet

Client Name:	ATC	**Volume (liters):**	1300
Lab Group #:	5901	**Filter Type / Filter Area:**	MCE 385 mm²
Lab Sample #:	15	**Grid Opening Size:**	0.01124
Client Sample #:	15 -	**Area Examined:**	0.06744 mm²
GRID BOX:	542	**Magnification:**	20,000
GRID ID:	7E&A	**Accelerating Voltage:**	100 KeV
# Grid Openings:	6	**Analysis Date:**	11/16/01

Analysis Performed By: RP
ROMAN PEYSAKHOV

GO. No	GO. Coord	Structure No	Structure Type F	B	C	M	Length >=05 µ <5µ	Length >=5µ	ID of Structure N or √ Chrys	Amphibole	Nonasb	Ambig/ND	EDS (Nonadb Elements)
1E	X2	NSD											
2	Q4	"											
3	P4	"											
4	Q7	"											
5	P7	"											
3A	6 Y7	"											

Struct = > 0.5µ > 5:1 Aspect Ratio

√= Positive diffraction pattern properties conforming to laboratory identification criteria observed

√= EDS spectrum conforming to laboratory identification criteria observed

F = Single Fiber
B = Bundle (<3 fibers <1 fiber diameter apart
C = Cluster (>3 intersections)
M = Matrix
NSD = No Structures Detected

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

AMPHIBOLES
Amosite
Crocidolite
Anthophyllite
Tremolite
Actinolite

Totals

	F	B	C	M	>5µ
Chrysotile					
Amphibole					
Ambiguous					
Non-Asbestos					
Non-Identified					

NYC 9/11 Public Portal Document

TEM Asbestos (air) Count Sheet

Client Name:	ATC	**Volume (liters):**	1300
Lab Group #:	5901	**Filter Type / Filter Area:**	MCE 385 mm²
Lab Sample #:	16	**Grid Opening Size:**	0.01124
Client Sample #:	16	**Area Examined:**	0.06744 mm²
GRID BOX:	542	**Magnification:**	20,000
GRID ID:	8 BC	**Accelerating Voltage:**	100 KeV
# Grid Openings:	6	**Analysis Date:**	11/16/01

Analysis Performed By: RP
ROMAN PEYSAKHOV

GO.		Structure	Structure Type				Length		ID of Structure N or √				EDS
No	Coord	No	F	B	C	M	>=05 µ <5µ	>=5µ	Chrys	Amphibole	Nonasb	Ambig/ND	(Nonadb Elements)
1	Q2	NSD											
2	J2	"											
3	F2	"											
4	N3	"											
5	H3	"											
6	G3	"											

Struct = > 0.5µ > 5:1 Aspect Ratio

√= Positive diffraction pattern properties conforming to laboratory identification criteria observed

√= EDS spectrum conforming to laboratory identification criteria observed

F = Single Fiber
B = Bundle (<3 fibers <1 fiber diameter apart
C = Cluster (>3 Intersections)
M = Matrix
NSD = No Structures Detected

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

AMPHIBOLES
Amosite
Crocidolite
Anthophyllite
Tremolite
Actinolite

Totals

	F	B	C	M	>5µ
Chrysotile					
Amphibole					
Ambiguous					
Non-Asbestos					
Non-Identified					

NYC 9/11 Public Portal Document

TEM Asbestos (air) Count Sheet

Client Name:	ATC	**Volume (liters):**	1300
Lab Group #:	5901	**Filter Type / Filter Area:**	MCE 385 mm²
Lab Sample #:	17	**Grid Opening Size:**	0.01124
Client Sample #:	17	**Area Examined:**	0.06744 mm²
GRID BOX:	5Y2	**Magnification:**	20,000
GRID ID:	18E	**Accelerating Voltage:**	100 KeV
# Grid Openings:	6	**Analysis Date:**	11/16/01

Analysis Performed By: RP

ROMAN PEYSAKHOV

GO. No	GO. Coord	Structure No	Structure Type F	B	C	M	Length >=05 µ <5µ	Length >=5µ	ID of Structure N or √ Chrys	Amphibole	Nonasb	Ambig/ND	EDS (Nonadb Elements)
1	X2	NSD											
2	Q2	"											
3	J1	"											
4	F7	"											
5	E7	"											
6	D7	"											

Struct = > 0.5µ > 5:1 Aspect Ratio

√= Positive diffraction pattern properties conforming to laboratory identification criteria observed

√= EDS spectrum conforming to laboratory identification criteria observed

F = Single Fiber

B = Bundle (<3 fibers <1 fiber diameter apart

C = Cluster (>3 intersections)

M = Matrix

NSD = No Structures Detected

Grid acceptance:

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

AMPHIBOLES

Amosite
Crocidolite
Anthophyllite
Tremolite
Actinolite

Totals

	F	B	C	M	>5µ
Chrysotile					
Amphibole					
Ambiguous					
Non-Asbestos					
Non-Identified					

NYC 9/11 Public Portal Document

TEM Asbestos (air) Count Sheet

Client Name:	ATC	**Volume (liters):**	1300
Lab Group #:	5901	**Filter Type / Filter Area:**	MCE 385 mm²
Lab Sample #:	18	**Grid Opening Size:**	0.01124
Client Sample #:	18 -	**Area Examined:**	0.06744 mm²
GRID BOX:	542	**Magnification:**	20,000
GRID ID:	9AB	**Accelerating Voltage:**	100 KeV
# Grid Openings:	6	**Analysis Date:**	11/16/01

Analysis Performed By: RP
ROMAN PEYSAKHOV

GO.		Structure No	Structure Type				Length		ID of Structure N or √				EDS (Nonadb Elements)
	No Coord		F	B	C	M	>=05 µ <5µ	>=5µ	Chrys	Amphibole	Nonasb	Ambig/ND	
9A	1 N2	NSD											
	2 I8	"											
	3 J4	"											
	4 X1	"											
	5 R1	"											
9B	6 R1	"											

Struct = > 0.5µ > 5:1 Aspect Ratio

√= Positive diffraction pattern properties conforming to laboratory identification criteria observed

√= EDS spectrum conforming to laboratory identification criteria observed

F = Single Fiber
B = Bundle (<3 fibers <1 fiber diameter apart
C = Cluster (>3 intersections)
M = Matrix
NSD = No Structures Detected

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

AMPHIBOLES
Amosite
Crocidolite
Anthophyllite
Tremolite
Actinolite

Totals

	F	B	C	M	>5µ
Chrysotile					
Amphibole					
Ambiguous					
Non-Asbestos					
Non-Identified					

NYC 9/11 Public Portal Document

TEM Asbestos (air) Count Sheet

Client Name:	ATC	**Volume (liters):**	1300
Lab Group #:	5901	**Filter Type / Filter Area:**	MCE 385 mm²
Lab Sample #:	19	**Grid Opening Size:**	0.01124
Client Sample #:	19 -	**Area Examined:**	0.06744 mm²
GRID BOX:	942	**Magnification:**	20,000
GRID ID:	9CQ	**Accelerating Voltage:**	100 KeV
# Grid Openings:	6	**Analysis Date:**	11/16/01

Analysis Performed By: RP
ROMAN PEYSAKHOV

GO. No	GO. Coord	Structure No	Structure Type F	B	C	M	Length >=05 µ <5µ	Length >=5µ	ID of Structure N or √ Chrys	Amphibole	Nonasb	Ambig/ND	EDS (Nonadb Elements)
1C	1 Q2	NSD											
	2 I2	"											
	3 P2	"											
	4 T4	"											
	5 K4	"											
1D	6 R4	"											

Struct = > 0.5µ > 5:1 Aspect Ratio

√= Positive diffraction pattern properties conforming to laboratory identification criteria observed

√= EDS spectrum conforming to laboratory identification criteria observed

F = Single Fiber
B = Bundle (<3 fibers <1 fiber diameter apart
C = Cluster (>3 Intersections)
M = Matrix
NSD = No Structures Detected

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

AMPHIBOLES
Amosite
Crocidolite
Anthophyllite
Tremolite
Actinolite

Totals

	F	B	C	M	>5µ
Chrysotile					
Amphibole					
Ambiguous					
Non-Asbestos					
Non-Identified					

NYC 9/11 Public Portal Document

TEM Asbestos (air) Count Sheet

Client Name:	ATC	**Volume (liters):**	1300
Lab Group #:	5901	**Filter Type / Filter Area:**	MCE 385 mm²
Lab Sample #:	20	**Grid Opening Size:**	0.01124
Client Sample #:	20 -	**Area Examined:**	0.06744 mm²
GRID BOX:	542	**Magnification:**	20,000
GRID ID:	9E10BA	**Accelerating Voltage:**	100 KeV
# Grid Openings:	6	**Analysis Date:**	11/16/01

Analysis Performed By: RP
ROMAN PEYSAKHOV

GO. No	GO. Coord	Structure No	Structure Type F	B	C	M	Length >=05 µ <5µ	Length >=5µ	ID of Structure N or √ Chrys	Amphibole	Nonasb	Ambig/ND	EDS (Nonadb Elements)
1	X2	NSD											
2	Q3	"											
3	J2	"											
4	F9	"											
5	F9	"											
6	K9	"											

Struct = > 0.5µ .> 5:1 Aspect Ratio

√= Positive diffraction pattern properties conforming to laboratory identification criteria observed

√= EDS spectrum conforming to laboratory identification criteria observed

F = Single Fiber
B = Bundle (<3 fibers <1 fiber diameter apart
C = Cluster (>3 Intersections)
M = Matrix
NSD = No Structures Detected

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

AMPHIBOLES
Amosite
Crocidolite
Anthophyllite
Tremolite
Actinolite

Totals

	F	B	C	M	>5µ
Chrysotile					
Amphibole					
Ambiguous					
Non-Asbestos					
Non-Identified					

NYC-WTC_000123990

NYC 9/11 Public Portal Document

ATC ASSOCIATES INC.

AIR MONITORING DATA AND CHAIN OF CUSTODY FORM

Page _____ of _____

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

5901 20/22 64227-64248

PROJECT INFORMATION

1. Client:	2. Project Name / 2a. Project Address	3. Project # / 3a. Task #	4. Project Monitor: / 4a. Air Sampler:	4c. Rotameter Number:
295 Realor PL	295 Realor PL Nyack	3969-15	Tim Austin/Industrial	SD-152

5. Date:	6. Abatement Location:	7. ☐ PCM (0.8 micron MCE)	8. ☐ TEM (0.45 micron MCE)	9. Type:
11.15.01		Cassette/Filter Manufacture X Lot #	Cassette/Filter Manufacture MAT Lot # 00265-916	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: 12a. IWA	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	14b. Avg	15. Total Air Vol. (liters)	16. # Fibers/Fields Minus Blank	17. Fiber Conc. F/CC
B-1				Field Blank									
B-2				Field Blank									
1				APT #	1230	1440	130	10	10	10	1300		
2				APT #	1935	1445	130	10	10	10	1300		
3				APT #	1240	1450	130	10	10	10	1300		
4				APT #	1245	1455	130	10	10	10	1350		
5				APT #	1950	1500	130	10	10	10	1300		
6				APT #	1253	1503	130	10	10	10	1300		

PII

CHAIN OF CUSTODY

	18. Relinquished By:	19. Received By:	20. Date:	21. Time:
I				
II		FED	11/16/01	8am
III				

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

22. Lab Name:	23. Date:	24. Time:
ATC-TEM		
a. Analyzed By: RRy	11.16	14:50
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 6

26. ATC Project Manager:	27. Result To: / Beeper/Phone #'s	28. Comments:
Fred Burkhardt	Fred Burkhardt	

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

NY-1 (1/01)

NYC-WTC_000123991

NYC 9/11 Public Portal Document

AIR MONITORING DATA AND CHAIN OF CUSTODY FORM

ATC ASSOCIATES INC.

Page _____ of _____

TURNAROUND TIME

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

PROJECT INFORMATION

5401

1. Client:	2. Project Name	3. Project #	4. Project Monitor:	4c. Rotameter Number:
225 Rector PL	2a. Project Address: 225 Rector PL NYNY	3a. Task #	4a. Air Sampler:	SD-152

5. Date:	6. Abatement Location:	7. ☐ PCM (0.8 micron MCE)	8. ☐ TEM (0.45 micron MCE)	9. Type:		
11·01		Cassette/Filter Manufacture: X Lot #:	Cassette/Filter Manufacture: MAT Lot #: 00265916	a. ☐ Background b. ☐ Pre-Abate	c. ☐ Abatement d. ☐ Post-Abate e. ☐ OSHA	f. ☐ Environmental g. ☒ Ambient h. ☐ Other

DAILY AIR SAMPLE RECORD

Sample I.D. Number	11. Pump Number	12. Sample Location: 12a. IWA	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	14b. Avg	15. Total Air Vol. (liters)	16. # Fibers/Fields Minus Blank	17. Fiber Conc. F/CC
				Field Blank									
				Field Blank									
7				APT #	1256	1506	130	10	10	10	1300		
8				APT #	1258	1508	130	10	10	10	1300		
9				APT #	1303	1513	130	10	10	10	1300		
10				APT #	1305	1515	130	10	10	10	1300		
11				APT #	1525	1735	130	10	10	10	1300		
12				APT #	1530	1740	130	10	10	10	1300		

PII

CHAIN OF CUSTODY

	18. Relinquished By:	19. Received By:	20. Date:	21. Time:
I				
II		JC	11/16/01	8pm
III				

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

22. Lab Name: ATC-TEM	23. Date:	24. Time:
a. Analyzed By: RLY	11.16	14:50
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 b

26. ATC Project Manager: Fred Berkhardt

27. Result To: Fred Berkhardt
Beeper/Phone #'s _____

28. Comments:

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

NY-1 (1/01)

NYC-WTC_000123992

NYC 9/11 Public Portal Document

ATC ASSOCIATES INC.

AIR MONITORING DATA AND CHAIN OF CUSTODY FORM

Page _____ of _____

TURNAROUND TIME

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

PROJECT INFORMATION

5401

1. Client:	2. Project Name	3. Project #	4. Project Monitor:	4c. Rotameter Number:
225 Rector PL	225 Rector PL NYNY	09622-15	Yme Anastasiadis/Dusty	SA-152
	2a. Project Address	3a. Task #	4a. Air Sampler:	

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:
11.01		X	MAT 00265916	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 12a. IWA	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	14b. Avg	15. Total Air Vol. (liters)	16. # Fibers/Fields Minus Blank	17. Fiber Conc. F/CC
				Field Blank									
				Field Blank									
13				APT #	1533	1743	130	10	10	10	1300		
14				APT #	1538	1748	130	10	10	10	1300		
15				APT #	1540	1750	130	10	10	10	1300		
16				APT #	1543	1753	130	10	10	10	1300		
17				APT #	1545	1755	130	10	10	10	1300		
18				APT #	1547	1757	130	10	10	10	1300		

PII

CHAIN OF CUSTODY

	18. Relinquished By:	19. Received By:	20. Date:	21. Time:
I				
II		JZ	11/16/01	8 am
III				

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

22. Lab Name:	23. Date:	24. Time:
ATC-TEM		
a. Analyzed By: RDy	11.16	14:50
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 6

26. ATC Project Manager: Fred Berkhardt

27. Result To: Fred Berkhardt
Beeper/Phone #'s _____

28. Comments:

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

NY-1 (1/01)

NYC-WTC_000123993

NYC 9/11 Public Portal Document

AIR MONITORING DATA AND CHAIN OF CUSTODY FORM

ATC ASSOCIATES INC.

5901

Page _____ of _____

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:
295 Fedor FL	2a. Project Address: 295 Fedor PL NYNY	3a. Task #	4a. Air Sampler:	SD-150

5. Date:	6. Abatement Location:	7. ☐ PCM (0.8 micron MCE)	8. ☒ TEM (0.45 micron MCE)	9. Type:
11.15.01		Cassette/Filter Manufacture: X	Cassette/Filter Manufacture: MNT	a. ☐ Background b. ☐ Pre-Abate c. ☐ Abatement d. ☐ Post-Abate e. ☐ OSHA f. ☐ Environmental g. ☒ Ambient h. ☐ Other
		Lot # X	Lot # 0C26C5916	

DAILY AIR SAMPLE RECORD

10. Sample I.D. Number	11. Pump Number	12. Sample Location 12a. IWA	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	14b. Avg	15. Total Air Vol. (liters)	16. # Fibers/Fields Minus Blank	17. Fiber Conc. F/CC
				Field Blank									
				Field Blank									
19				#19	1549	1759	30	10	10	10	1300		
20				#20	1551	1801	130	10	10	10	1300		

PII

CHAIN OF CUSTODY

18. Relinquished By:	19. Received By:	20. Date:	21. Time:
I			
II	JD	11/16/01	8 am
III			

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

22. Lab Name: ATC-TEM	23. Date:	24. Time:
a. Analyzed By: RRy	11.16	14:50
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 2

26. ATC Project Manager:	27. Result To:
Fred Burkhardt	Fred Burkhardt
	Beeper/Phone #'s _____

28. Comments:

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

NY-1 (1/01)

NYC 9/11 Public Portal Document

ATC ASSOCIATES INC.

Project Memorandum

Subject: 225 Rector Place

Re: Ambient Air Sampling

To: Peter Hoyle
Related Management

From: Fred Burkhardt

Date: November 19, 2001

On October 31, 2001, ATC collected one ambient air sample in each of the apartments listed below, one sample in five common areas (hallways) of the building and five outdoor samples, to ascertain the presence or absence of airborne asbestos. 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.

Apartments sampled are identified in the following table.

Floor	Apartments	Floor	Apartments
Penthouse	PII	11	PII
23		10	
22		9	
21		8	
20		7	
19		6	
18		5	
17		4	
16		3	
15		2	
14		1	
12			Outdoors

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/mm^2) 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 project.

Based upon analytical sample results for all samples recording levels 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. If you have any questions or require additional explaination of the information presented please do not hesitate to call me at 212-353-8280.

Thank You.

NYC 9/11 Public Portal Document

ATC ASSOCIATES INC.

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

10

November 1, 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. 5802:

Client: Park Place
Project Name: 225 Rector Place, NY, NY
Location: Various Sites
Samples received: 11/01/01

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 document, no asbestos structures were detected in any of the twenty-six ambient samples submitted from the site. MMI TEM cassettes, Lot No. 98117167, were used.

Results reported as Struct/cc are a function of air volume collected in the field and are, as such, not verifiable by this laboratory. This report may be reproduced only in its entirety and not without prior permission of this laboratory. If post-abatement inside samples pass, the response action may be considered to have been completed. The analyses were supervised by Dr. Michael A. Gorycki, Director of Electron Microscopy.

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

Very truly yours,

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

NYC 9/11 Public Portal Document

ATC Associates Inc.
104 East 25 Street
New York, NY 10010
TEL: (212) 353-8280 FAX: (212) 353-8306

FACSIMILE TELECOPY TRANSMISSION

To: F. Burkhard
ATC Associates Inc

Fax #: (212) 353-8306

Date: Thursday, November 01, 2001

Time: 11:36:39 AM

Comments:

From: ROMAN PEYSAKHOV

ATC Group #: 5802

Client Project: Parc Plase
225 Rector Street

Number of Pages: _____

NYC 9/11 Public Portal Document

ATC Associates

104 East 25 Street, New York, NY 10010

Phone: (212) 353-8280 Fax: (212) 353-8306

Attn: F. Burkhard
ATC Associates Inc
104 East 25th Street
New York NY 10010

Fax: (212) 353-8306 **Phone:** (212) 353-8280

Project: Parc Plase
225 Rector Street

Received: 11/1/01 8:00:00 AM

ATC Group #: 5802

Analysis Date: 11/1/01

Asbestos Fiber Analysis by Transmission Electron Microscopy (TEM) Performed by EPA 40 CFR Part 763 Final Rule (AHERA)

Sample	Volume	Area Analyzed	Non Asb	Asbestos Type(s)	Structures 0.5µ-5	Structures 5µ	Analytical Sensitivity (S/cc)	Asbestos Concetration (S/mm²)	Asbestos Concetration (S/cc)	Notes
4 - 5802 -1	1300.00	0.0674	0	None Detected	0	0	0.0044	<14.83	<0.0044	
5 - 5802 -2	1300.00	0.0674	0	None Detected	0	0	0.0044	<14.83	<0.0044	
6 - 5802 -3	1300.00	0.0674	0	None Detected	0	0	0.0044	<14.83	<0.0044	
7 - 5802 -4	1300.00	0.0674	0	None Detected	0	0	0.0044	<14.83	<0.0044	
8 - 5802 -5	1300.00	0.0674	0	None Detected	0	0	0.0044	<14.83	<0.0044	
9 - 5802 -6	1300.00	0.0674	0	None Detected	0	0	0.0044	<14.83	<0.0044	
10 - 5802 -7	1300.00	0.0674	0	None Detected	0	0	0.0044	<14.83	<0.0044	
11 - 5802 -8	1300.00	0.0674	0	None Detected	0	0	0.0044	<14.83	<0.0044	

ROMAN PEYSAKHOV
Analyzed by: RRey

MICHAEL A. GORYCKI, Ph.D.
Approved by:

Disclaimer: The laboratory is not responsible for data reported in structures/cc, which is dependent on volume collected by non-laboratory personnel. This lab is only responsible for data reported in structures/mm². This report may not be reproduced, except in full, without written approval by ATC Associates Inc. This report may not be used to claim product endorsement by NVLAP or any other agency of the U.S. Government. This reports relates only to the samples reported above. Quality control data (including 95% confidence limits and laboratory and analysis' accuracy and precision) is available upon request.

Accredited for NVLAP PLM/TEM #101187-0, NY State ELAP #10879

NYC 9/11 Public Portal Document

Attn: F. Burkhard
ATC Associates Inc
104 East 25th Street
New York NY 10010
Fax: (212) 353-8306 **Phone:** (212) 353-8280

Received: 11/1/01 8:00:00 AM
ATC Group #: 5802
Analysis Date: 11/1/01

Project: Parc Plase
225 Rector Street

Asbestos Fiber Analysis by Transmission Electron Microscopy (TEM) Performed by EPA 40 CFR Part 763 Final Rule (AHERA)

Sample	Volume	Area Analyzed	Non Asb	Asbestos Type(s)	Structures 0.5µ-5	Structures 5µ	Analytical Sensitivity (S/cc)	Asbestos Concetration (S/mm²)	Asbestos Concetration (S/cc)	Notes
12 - 5802 -9	1300.00	0.0674	0	None Detected	0	0	0.0044	<14.83	<0.0044	
13 - 5802 -10	1300.00	0.0674	0	None Detected	0	0	0.0044	<14.83	<0.0044	
14 - 5802 -11	1300.00	0.0674	0	None Detected	0	0	0.0044	<14.83	<0.0044	
15 - 5802 -12	1300.00	0.0674	0	None Detected	0	0	0.0044	<14.83	<0.0044	
16 - 5802 -13	1300.00	0.0674	0	None Detected	0	0	0.0044	<14.83	<0.0044	
17 - 5802 -14	1300.00	0.0674	0	None Detected	0	0	0.0044	<14.83	<0.0044	
18 - 5802 -15	1300.00	0.0674	0	None Detected	0	0	0.0044	<14.83	<0.0044	
19 - 5802 -16	1300.00	0.0674	0	None Detected	0	0	0.0044	<14.83	<0.0044	
20 - 5802 -17	1300.00	0.0674	0	None Detected	0	0	0.0044	<14.83	<0.0044	
21 - 5802 -18	1300.00	0.0674	0	None Detected	0	0	0.0044	<14.83	<0.0044	

ROMAN PEYSAKHOV
Analyzed by: RPey

MICHAEL A. GORYCKI, Ph.D.
Approved by:

Disclaimer: The laboratory is not responsible for data reported in structures/cc, which is dependent on volume collected by non-laboratory personnel. This lab is only responsible for data reported in structures/mm². This report may not be reproduced, except in full, without written approval by ATC Associates Inc. This report may not be used to claim product endorsement by NVLAP or any other agency of the U.S. Government. This reports relates only to the samples reported above. Quality control data (including 95% confidence limits and laboratory and analysis' accuracy and precision) is available upon request.

Accredited for NVLAP PLM/TEM #101187-0, NY State ELAP #10879

NYC 9/11 Public Portal Document

Attn: F. Burkhard
ATC Associates Inc
104 East 25th Street
New York NY 10010
Fax: (212) 353-8306 **Phone:** (212) 353-8280

Received: 11/1/01 8:00:00 AM
ATC Group #: 5802
Analysis Date: 11/1/01

Project: Parc Plase
225 Rector Street

Asbestos Fiber Analysis by Transmission Electron Microscopy (TEM) Performed by EPA 40 CFR Part 763 Final Rule (AHERA)

Sample	Volume	Area Analyzed	Non Asb	Asbestos Type(s)	Structures 0.5µ-5	Structures 5µ	Analytical Sensitivity (S/cc)	Asbestos Concetration (S/mm²)	Asbestos Concetration (S/cc)	Notes
22 - 5802 -19	1300.00	0.0674	0	None Detected	0	0	0.0044	<14.83	<0.0044	
24 - 5802 -20	1300.00	0.0674	0	None Detected	0	0	0.0044	<14.83	<0.0044	
25 - 5802 -21	1300.00	0.0674	0	None Detected	0	0	0.0044	<14.83	<0.0044	
26 - 5802 -22	1300.00	0.0674	0	None Detected	0	0	0.0044	<14.83	<0.0044	
27 - 5802 -23	1300.00	0.0674	0	None Detected	0	0	0.0044	<14.83	<0.0044	
28 - 5802 -24	1300.00	0.0674	0	None Detected	0	0	0.0044	<14.83	<0.0044	
29 - 5802 -25	1300.00	0.0674	0	None Detected	0	0	0.0044	<14.83	<0.0044	
30 - 5802 -26	1300.00	0.0674	0	None Detected	0	0	0.0044	<14.83	<0.0044	

ROMAN PEYSAKHOV
Analyzed by: RPey

MICHAEL A. GORYCKI, Ph.D.
Approved by:

Disclaimer: The laboratory is not responsible for data reported in structures/cc, which is dependent on volume collected by non-laboratory personnel. This lab is only responsible for data reported in structures/mm². This report may not be reproduced, except in full, without written approval by ATC Associates Inc. This report may not be used to claim product endorsement by NVLAP or any other agency of the U.S. Government. This reports relates only to the samples reported above. Quality control data (including 95% confidence limits and laboratory and analysis' accuracy and precision) is available upon request.

Accredited for NVLAP PLM/TEM #101187-0, NY State ELAP #10879

NYC 9/11 Public Portal Document

TEM Asbestos (air) Count Sheet

Client Name:	ATC	**Volume (liters):**	1300
Lab Group #:	5802	**Filter Type / Filter Area:**	MCE 385 mm²
Lab Sample #:	1	**Grid Opening Size:**	0.01124
Client Sample #:	4	**Area Examined:**	0.06744 mm²
GRID BOX:	503	**Magnification:**	20,000
GRID ID:	3AC	**Accelerating Voltage:**	100 KeV
# Grid Openings:	6		

Analysis Performed By: RRyz

ROMAN PEYSAKHOV

GO. No	GO. Coord	Structure No	Structure Type F	B	C	M	Length >=05 µ <5µ	Length >=5µ	ID of Structure N or √ Chrys	Amphibole	Nonasb	Ambig/ND	EDS (Nonadb Elements)
3A 1	Q9	NSD											
2	J3	11											
3	I3	11											
4	X2	11											
5	Q2	11											
6	J2	11											
,C													

Struct = > 0.5µ .> 5:1 Aspect Ratio

√= Positive diffraction pattern properties conforming to laboratory identification criteria observed

√= EDS spectrum conforming to laboratory identification criteria observed

F = Single Fiber

B = Bundle (<3 fibers <1 fiber diameter apart

C = Cluster (>3 Intersections)

M = Matrix

NSD = No Structures Detected

Grid acceptance:

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

AMPHIBOLES

Amosite
Crocidolite
Anthophyllite
Tremolite
Actinolite

Totals

	F	B	C	M	>5µ
Chrysotile					
Amphibole					
Ambiguous					
Non-Asbestos					
Non-Identified					

NYC 9/11 Public Portal Document

TEM Asbestos (air) Count Sheet

Client Name:	ATC	**Volume (liters):**	1300
Lab Group #:	5802	**Filter Type / Filter Area:**	MCE 385 mm²
Lab Sample #:	2	**Grid Opening Size:**	0.01124
Client Sample #:	5 -	**Area Examined:**	0.06744 mm²
GRID BOX:	503	**Magnification:**	20,000
GRID ID:	3E2	**Accelerating Voltage:**	100 KeV
# Grid Openings:	6		

Analysis Performed By: RP
ROMAN PEYSAKHOV

GO. No	GO. Coord	Structure No	Structure Type F	B	C	M	Length >=05 µ <5µ	Length >=5µ	ID of Structure N or √ Chrys	Amphibole	Nonasb	Ambig/ND	EDS (Nonadb Elements)
3E 1	N2	NSD											
2	P2	11											
3	J2	11											
4	I2	11											
5	P2	11											
3G 6	V2	11											

Struct = > 0.5µ .> 5:1 Aspect Ratio

√= Positive diffraction pattern properties conforming to laboratory identification criteria observed

√= EDS spectrum conforming to laboratory identification criteria observed

F = Single Fiber
B = Bundle (<3 fibers <1 fiber diameter apart
C = Cluster (>3 Intersections)
M = Matrix
NSD = No Structures Detected

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

AMPHIBOLES
Amosite
Crocidolite
Anthophyllite
Tremolite
Actinolite

Totals

	F	B	C	M	>5µ
Chrysotile					
Amphibole					
Ambiguous					
Non-Asbestos					
Non-Identified					

NYC 9/11 Public Portal Document

TEM Asbestos (air) Count Sheet

Client Name:	ATC	**Volume (liters):**	1300
Lab Group #:	5802	**Filter Type / Filter Area:**	MCE 385 mm²
Lab Sample #:	3	**Grid Opening Size:**	0.01124
Client Sample #:	6 -	**Area Examined:**	0.06744 mm²
GRID BOX:	503	**Magnification:**	20,000
GRID ID:	3IYB	**Accelerating Voltage:**	100 KeV
# Grid Openings:	6		

Analysis Performed By: RP
ROMAN PEYSAKHOV

GO. No	GO. Coord	Structure No	Structure Type F	B	C	M	Length >=05 µ <5µ	Length >=5µ	ID of Structure N or √ Chrys	Amphibole	Nonasb	Ambig/ND	EDS (Nonadb Elements)
3I 1	NZ	NSD											
2	PZ	4											
3	QZ	11											
4	XZ	4											
5	VZ	11											
6 YB	PZ	11											

Struct = > 0.5µ . > 5:1 Aspect Ratio

√= Positive diffraction pattern properties conforming to laboratory identification criteria observed

√= EDS spectrum conforming to laboratory identification criteria observed

F = Single Fiber
B = Bundle (<3 fibers <1 fiber diameter apart
C = Cluster (>3 Intersections)
M = Matrix
NSD = No Structures Detected

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

AMPHIBOLES
Amosite
Crocidolite
Anthophyllite
Tremolite
Actinolite

Totals

	F	B	C	M	>5µ
Chrysotile					
Amphibole					
Ambiguous					
Non-Asbestos					
Non-Identified					

NYC 9/11 Public Portal Document

TEM Asbestos (air) Count Sheet

Client Name:	ATC	**Volume (liters):**	1300
Lab Group #:	5802	**Filter Type / Filter Area:**	MCE 385 mm²
Lab Sample #:	4	**Grid Opening Size:**	0.01124
Client Sample #:	7 -	**Area Examined:**	0.06744 mm²
GRID BOX:	503	**Magnification:**	20,000
GRID ID:	4DF	**Accelerating Voltage:**	100 KeV
# Grid Openings:	6		

Analysis Performed By: RP
ROMAN PEYSAKHOV

GO. No	GO. Coord	Structure No	Structure Type F	B	C	M	Length >=05 µ <5µ	Length >=5µ	ID of Structure N or √ Chrys	Amphibole	Nonasb	Ambig/ND	EDS (Nonadb Elements)
1	V2	NSD											
2	P2	4											
3	I1	4											
4	Q2	11											
5	S3	11											
6	I3	11											

Struct = > 0.5µ .> 5:1 Aspect Ratio

√= Positive diffraction pattern properties conforming to laboratory identification criteria observed

√= EDS spectrum conforming to laboratory identification criteria observed

F = Single Fiber
B = Bundle (<3 fibers <1 fiber diameter apart
C = Cluster (>3 Intersections)
M = Matrix
NSD = No Structures Detected

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

AMPHIBOLES
Amosite
Crocidolite
Anthophyllite
Tremolite
Actinolite

Totals

	F	B	C	M	>5µ
Chrysotile					
Amphibole					
Ambiguous					
Non-Asbestos					
Non-Identified					

NYC 9/11 Public Portal Document

TEM Asbestos (air) Count Sheet

Client Name:	ATC	**Volume (liters):**	1300
Lab Group #:	5802	**Filter Type / Filter Area:**	MCE 385 mm²
Lab Sample #:	5	**Grid Opening Size:**	0.01124
Client Sample #:	8 -	**Area Examined:**	0.06744 mm²
GRID BOX:	583	**Magnification:**	20,000
GRID ID:	4HJ	**Accelerating Voltage:**	100 KeV
# Grid Openings:	6		

Analysis Performed By: RP

ROMAN PEYSAKHOV

GO. No	GO. Coord	Structure No	Structure Type F	B	C	M	Length >=05 µ <5µ	Length >=5µ	ID of Structure N or √ Chrys	Amphibole	Nonasb	Ambig/ND	EDS (Nonadb Elements)
1	V2	NSD											
2	P1	11											
3	I2	11											
4	V2	11											
5	P2	11											
6	I2	11											

Struct = > 0.5µ _> 5:1 Aspect Ratio

√= Positive diffraction pattern properties conforming to laboratory identification criteria observed

√= EDS spectrum conforming to laboratory identification criteria observed

F = Single Fiber

B = Bundle (<3 fibers <1 fiber diameter apart

C = Cluster (>3 Intersections)

M = Matrix

NSD = No Structures Detected

Grid acceptance:

<50% undissolved filter, overlapped or folded

<10% particulate coverage >50% coverage ate least 20 unfolded or overlapped grid squares <5% holes or opaque areas

AMPHIBOLES

Amosite
Crocidolite
Anthophyllite
Tremolite
Actinolite

Totals

	F	B	C	M	>5µ
Chrysotile					
Amphibole					
Ambiguous					
Non-Asbestos					
Non-Identified					

NYC 9/11 Public Portal Document

TEM Asbestos (air) Count Sheet

Client Name:	ATC	**Volume (liters):**	1300
Lab Group #:	5802	**Filter Type / Filter Area:**	MCE 385 mm²
Lab Sample #:	6	**Grid Opening Size:**	0.01124
Client Sample #:	9 -	**Area Examined:**	0.06744 mm²
GRID BOX:	503	**Magnification:**	20,000
GRID ID:	5AC	**Accelerating Voltage:**	100 KeV
# Grid Openings:	6		

Analysis Performed By: RP

ROMAN PEYSAKHOV

GO. No	GO. Coord	Structure No	Structure Type F	B	C	M	Length >=05 µ <5µ	Length >=5µ	ID of Structure N or √ Chrys	Amphibole	Nonasb	Ambig/ND	EDS (Nonadb Elements)
1	5Z	NSA0											
2	R1	4											
3	X2	11											
4	EC	11											
5	5Z	11											
6	QZ	11											

Struct = > 0.5µ .> 5:1 Aspect Ratio

√= Positive diffraction pattern properties conforming to laboratory identification criteria observed

√= EDS spectrum conforming to laboratory identification criteria observed

F = Single Fiber

B = Bundle (<3 fibers <1 fiber diameter apart

C = Cluster (>3 Intersections)

M = Matrix

NSD = No Structures Detected

Grid acceptance:

<50% undissolved filter, overlapped or folded

<10% particulate coverage >50% coverage ate least 20 unfolded or overlapped grid squares <5% holes or opaque areas

AMPHIBOLES

Amosite
Crocidolite
Anthophyllite
Tremolite
Actinolite

Totals

	F	B	C	M	>5µ
Chrysotile					
Amphibole					
Ambiguous					
Non-Asbestos					
Non-Identified					

NYC 9/11 Public Portal Document

TEM Asbestos (air) Count Sheet

Client Name:	ATC	**Volume (liters):**	1300
Lab Group #:	5802	**Filter Type / Filter Area:**	MCE 385 mm²
Lab Sample #:	7	**Grid Opening Size:**	0.01124
Client Sample #:	10 -	**Area Examined:**	0.06744 mm²
GRID BOX:	503	**Magnification:**	20,000
GRID ID:	SEL	**Accelerating Voltage:**	100 KeV
# Grid Openings:	6		

Analysis Performed By: RP
ROMAN PEYSAKHOV

GO. No	GO. Coord	Structure No	Structure Type F	B	C	M	Length >=05 µ <5µ	Length >=5µ	ID of Structure N or √ Chrys	Amphibole	Nonasb	Ambig/ND	EDS (Nonadb Elements)
1	I2	NSD											
3	P2	"											
3	Q2	"											
4	N2	"											
5	P2	"											
6	I2	"											

Struct = > 0.5µ > 5:1 Aspect Ratio

√= Positive diffraction pattern properties conforming to laboratory identification criteria observed

√= EDS spectrum conforming to laboratory identification criteria observed

F = Single Fiber
B = Bundle (<3 fibers <1 fiber diameter apart
C = Cluster (>3 Intersections)
M = Matrix
NSD = No Structures Detected

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

AMPHIBOLES
Amosite
Crocidolite
Anthophyllite
Tremolite
Actinolite

Totals

	F	B	C	M	>5µ
Chrysotile					
Amphibole					
Ambiguous					
Non-Asbestos					
Non-Identified					

NYC 9/11 Public Portal Document

TEM Asbestos (air) Count Sheet

Client Name:	ATC	**Volume (liters):**	1300
Lab Group #:	5802	**Filter Type / Filter Area:**	MCE 385 mm²
Lab Sample #:	8	**Grid Opening Size:**	0.01124
Client Sample #:	11 -	**Area Examined:**	0.06744 mm²
GRID BOX:	503	**Magnification:**	20,000
GRID ID:	5216	**Accelerating Voltage:**	100 KeV
# Grid Openings:	6		

Analysis Performed By: RP
ROMAN PEYSAKHOV

GO. No	GO. Coord	Structure No	Structure Type F	B	C	M	Length >=05 µ <5µ	Length >=5µ	ID of Structure N or √ Chrys	Amphibole	Nonasb	Ambig/ND	EDS (Nonadb Elements)
1	K2	NSD											
2	J2	11											
3	I2	11											
4	I2	11											
5	P2	4											
6	V2	11											

Struct = > 0.5µ > 5:1 Aspect Ratio

√= Positive diffraction pattern properties conforming to laboratory identification criteria observed

√= EDS spectrum conforming to laboratory identification criteria observed

F = Single Fiber
B = Bundle (<3 fibers <1 fiber diameter apart
C = Cluster (>3 Intersections)
M = Matrix
NSD = No Structures Detected

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

AMPHIBOLES
Amosite
Crocidolite
Anthophyllite
Tremolite
Actinolite

Totals

	F	B	C	M	>5µ
Chrysotile					
Amphibole					
Ambiguous					
Non-Asbestos					
Non-Identified					

NYC 9/11 Public Portal Document

TEM Asbestos (air) Count Sheet

Client Name:	ATC	**Volume (liters):**	1300
Lab Group #:	5802	**Filter Type / Filter Area:**	MCE 385 mm²
Lab Sample #:	9	**Grid Opening Size:**	0.01124
Client Sample #:	12 -	**Area Examined:**	0.06744 mm²
GRID BOX:	503	**Magnification:**	20,000
GRID ID:	6AF	**Accelerating Voltage:**	100 KeV
# Grid Openings:	6		

Analysis Performed By: RP
ROMAN PEYSAKHOV

GO. No	GO. Coord	Structure No	Structure Type F	B	C	M	Length >=05 µ <5µ	Length >=5µ	ID of Structure N or √ Chrys	Amphibole	Nonasb	Ambig/ND	EDS (Nonadb Elements)
1	J2	NSD											
2	Q2	4											
3	X2	4											
4	X3	11											
5	Q3	4											
6	J3	11											

Struct = > 0.5µ > 5:1 Aspect Ratio

√= Positive diffraction pattern properties conforming to laboratory identification criteria observed

√= EDS spectrum conforming to laboratory identification criteria observed

F = Single Fiber
B = Bundle (<3 fibers <1 fiber diameter apart
C = Cluster (>3 Intersections)
M = Matrix
NSD = No Structures Detected

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

AMPHIBOLES
Amosite
Crocidolite
Anthophyllite
Tremolite
Actinolite

Totals

	F	B	C	M	>5µ
Chrysotile					
Amphibole					
Ambiguous					
Non-Asbestos					
Non-Identified					

NYC 9/11 Public Portal Document

TEM Asbestos (air) Count Sheet

Client Name:	ATC	**Volume (liters):**	1300
Lab Group #:	5802	**Filter Type / Filter Area:**	MCE 385 mm²
Lab Sample #:	10	**Grid Opening Size:**	0.01124
Client Sample #:	13 -	**Area Examined:**	0.06744 mm²
GRID BOX:	503	**Magnification:**	20,000
GRID ID:	6HJ	**Accelerating Voltage:**	100 KeV
# Grid Openings:	6		

Analysis Performed By: RP
ROMAN PEYSAKHOV

GO. No	GO. Coord	Structure No	Structure Type F	B	C	M	Length >=05 µ <5µ	Length >=5µ	ID of Structure N or √ Chrys	Amphibole	Nonasb	Ambig/ND	EDS (Nonadb Elements)
H 1	N2	NSD											
2	P2	11											
3	Q2	11											
4	I2	11											
5	P2	11											
J 6	V2	11											

Struct = > 0.5µ > 5:1 Aspect Ratio

√= Positive diffraction pattern properties conforming to laboratory identification criteria observed

√= EDS spectrum conforming to laboratory identification criteria observed

F = Single Fiber
B = Bundle (<3 fibers <1 fiber diameter apart
C = Cluster (>3 Intersections)
M = Matrix
NSD = No Structures Detected

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

AMPHIBOLES
Amosite
Crocidolite
Anthophyllite
Tremolite
Actinolite

Totals

	F	B	C	M	>5µ
Chrysotile					
Amphibole					
Ambiguous					
Non-Asbestos					
Non-Identified					

NYC 9/11 Public Portal Document

TEM Asbestos (air) Count Sheet

Client Name:	ATC	**Volume (liters):**	1300
Lab Group #:	5802	**Filter Type / Filter Area:**	MCE 385 mm²
Lab Sample #:	11	**Grid Opening Size:**	0.01124
Client Sample #:	14 -	**Area Examined:**	0.06744 mm²
GRID BOX:	503	**Magnification:**	20,000
GRID ID:	7AC	**Accelerating Voltage:**	100 KeV
# Grid Openings:	6		

Analysis Performed By: RP
ROMAN PEYSAKHOV

GO. No	GO. Coord	Structure No	Structure Type F	B	C	M	Length >=05 µ <5µ	Length >=5µ	ID of Structure N or √ Chrys	Amphibole	Nonasb	Ambig/ND	EDS (Nonadb Elements)
7A 1	J3	NSD											
2	Q2	11											
3	X2	11											
4	P2	11											
5	J2	11											
6	E2	11											
7C													

Struct.= > 0.5µ > 5:1 Aspect Ratio

√= Positive diffraction pattern properties conforming to laboratory identification criteria observed

√= EDS spectrum conforming to laboratory identification criteria observed

F = Single Fiber
B = Bundle (<3 fibers <1 fiber diameter apart
C = Cluster (>3 Intersections)
M = Matrix
NSD = No Structures Detected

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

AMPHIBOLES
Amosite
Crocidolite
Anthophyllite
Tremolite
Actinolite

Totals

	F	B	C	M	>5µ
Chrysotile					
Amphibole					
Ambiguous					
Non-Asbestos					
Non-Identified					

NYC 9/11 Public Portal Document

TEM Asbestos (air) Count Sheet

Client Name:	ATC	**Volume (liters):**	1300
Lab Group #:	5802	**Filter Type / Filter Area:**	MCE 385 mm²
Lab Sample #:	12	**Grid Opening Size:**	0.01124
Client Sample #:	15 -	**Area Examined:**	0.06744 mm²
GRID BOX:	503	**Magnification:**	20,000
GRID ID:	7ER	**Accelerating Voltage:**	100 KeV
# Grid Openings:	6		

Analysis Performed By: RP
ROMAN PEYSAKHOV

GO. No	GO. Coord	Structure No	Structure Type F	B	C	M	Length >=05 µ <5µ	Length >=5µ	ID of Structure N or √ Chrys	Amphibole	Nonasb	Ambig/ND	EDS (Nonadb Elements)
1	N2	NSD											
2	P2	"											
3	Q2	"											
4	I2	"											
5	P2	"											
6	V2	"											

Struct = > 0.5µ > 5:1 Aspect Ratio

√= Positive diffraction pattern properties conforming to laboratory identification criteria observed

√= EDS spectrum conforming to laboratory identification criteria observed

F = Single Fiber
B = Bundle (<3 fibers <1 fiber diameter apart
C = Cluster (>3 Intersections)
M = Matrix
NSD = No Structures Detected

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

AMPHIBOLES
Amosite
Crocidolite
Anthophyllite
Tremolite
Actinolite

Totals

	F	B	C	M	>5µ
Chrysotile					
Amphibole					
Ambiguous					
Non-Asbestos					
Non-Identified					

NYC 9/11 Public Portal Document

TEM Asbestos (air) Count Sheet

Client Name:	ATC	**Volume (liters):**	1300
Lab Group #:	5802	**Filter Type / Filter Area:**	MCE 385 mm²
Lab Sample #:	13	**Grid Opening Size:**	0.01124
Client Sample #:	16 -	**Area Examined:**	0.06744 mm²
GRID BOX:	593	**Magnification:**	20,000
GRID ID:	7IBB	**Accelerating Voltage:**	100 KeV
# Grid Openings:	6		

Analysis Performed By: RD
ROMAN PEYSAKHOV

GO. No	GO. Coord	Structure No	Structure Type F	B	C	M	Length >=05 µ <5µ	Length >=5µ	ID of Structure N or √ Chrys	Amphibole	Nonasb	Ambig/ND	EDS (Nonadb Elements)
1	B2	NSD											
2	Q2	4											
3	P2	4											
4	J2	1											
5	P2	11											
6	Q2	1											

Struct = > 0.5µ > 5:1 Aspect Ratio

√= Positive diffraction pattern properties conforming to laboratory identification criteria observed

√= EDS spectrum conforming to laboratory identification criteria observed

F = Single Fiber
B = Bundle (<3 fibers <1 fiber diameter apart
C = Cluster (>3 Intersections)
M = Matrix
NSD = No Structures Detected

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

AMPHIBOLES
Amosite
Crocidolite
Anthophyllite
Tremolite
Actinolite

Totals

	F	B	C	M	>5µ
Chrysotile					
Amphibole					
Ambiguous					
Non-Asbestos					
Non-Identified					

NYC 9/11 Public Portal Document

TEM Asbestos (air) Count Sheet

Client Name:	ATC	**Volume (liters):**	1300
Lab Group #:	5802	**Filter Type / Filter Area:**	MCE 385 mm²
Lab Sample #:	14	**Grid Opening Size:**	0.01124
Client Sample #:	17 -	**Area Examined:**	0.06744 mm²
GRID BOX:	503	**Magnification:**	20,000
GRID ID:	2 & F	**Accelerating Voltage:**	100 KeV
# Grid Openings:	6		

Analysis Performed By: RP
ROMAN PEYSAKHOV

GO. No	GO. Coord	Structure No	Structure Type F	B	C	M	Length >=05 µ <5µ	Length >=5µ	ID of Structure N or √ Chrys	Amphibole	Nonasb	Ambig/ND	EDS (Nonadb Elements)
20 1	Q2	NS20											
2	S2	4											
3	E2	4											
4	S2	11											
5	Q2	11											
2F 6	X2	4											

Struct = > 0.5µ > 5:1 Aspect Ratio

√= Positive diffraction pattern properties conforming to laboratory identification criteria observed

√= EDS spectrum conforming to laboratory identification criteria observed

F = Single Fiber
B = Bundle (<3 fibers <1 fiber diameter apart
C = Cluster (>3 Intersections)
M = Matrix
NSD = No Structures Detected

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

AMPHIBOLES
Amosite
Crocidolite
Anthophyllite
Tremolite
Actinolite

Totals

	F	B	C	M	>5µ
Chrysotile					
Amphibole					
Ambiguous					
Non-Asbestos					
Non-Identified					

NYC 9/11 Public Portal Document

TEM Asbestos (air) Count Sheet

Client Name:	ATC	**Volume (liters):**	1300
Lab Group #:	5802	**Filter Type / Filter Area:**	MCE 385 mm²
Lab Sample #:	15	**Grid Opening Size:**	0.01124
Client Sample #:	18 -	**Area Examined:**	0.06744 mm²
GRID BOX:	503	**Magnification:**	20,000
GRID ID:	2HJ	**Accelerating Voltage:**	100 KeV
# Grid Openings:	6		

Analysis Performed By: RP
ROMAN PEYSAKHOV

GO. No	Coord	Structure No	Structure Type F	B	C	M	Length >=05 µ <5µ	>=5µ	ID of Structure N or √ Chrys	Amphibole	Nonasb	Ambig/ND	EDS (Nonadb Elements)
1	Q2	NSD											
2	J2	4											
3	I2	11											
4	I2	11											
5	P2	11											
6	V2	11											

Struct = > 0.5µ > 5:1 Aspect Ratio

√= Positive diffraction pattern properties conforming to laboratory identification criteria observed

√= EDS spectrum conforming to laboratory identification criteria observed

F = Single Fiber
B = Bundle (<3 fibers <1 fiber diameter apart
C = Cluster (>3 Intersections)
M = Matrix
NSD = No Structures Detected

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

AMPHIBOLES
Amosite
Crocidolite
Anthophyllite
Tremolite
Actinolite

Totals

	F	B	C	M	>5µ
Chrysotile					
Amphibole					
Ambiguous					
Non-Asbestos					
Non-Identified					

NYC 9/11 Public Portal Document

TEM Asbestos (air) Count Sheet

Client Name:	ATC	**Volume (liters):**	1300
Lab Group #:	5802	**Filter Type / Filter Area:**	MCE 385 mm²
Lab Sample #:	16	**Grid Opening Size:**	0.01124
Client Sample #:	19 -	**Area Examined:**	0.06744 mm²
GRID BOX:	503	**Magnification:**	20,000
GRID ID:	9AC	**Accelerating Voltage:**	100 KeV
# Grid Openings:	6		

Analysis Performed By: RP

ROMAN PEYSAKHOV

GO. No	GO. Coord	Structure No	Structure Type F	B	C	M	Length >=05 µ <5µ	Length >=5µ	ID of Structure N or √ Chrys	Amphibole	Nonasb	Ambig/ND	EDS (Nonadb Elements)
1A	QZ	NSD											
2	PZ	4											
3	IZ	11											
4	QZ	11											
5	IZ	11											
10	PZ	11											

Struct = > 0.5µ > 5:1 Aspect Ratio

√= Positive diffraction pattern properties conforming to laboratory identification criteria observed

√= EDS spectrum conforming to laboratory identification criteria observed

F = Single Fiber
B = Bundle (<3 fibers <1 fiber diameter apart
C = Cluster (>3 Intersections)
M = Matrix
NSD = No Structures Detected

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

AMPHIBOLES
Amosite
Crocidolite
Anthophyllite
Tremolite
Actinolite

Totals

	F	B	C	M	>5µ
Chrysotile					
Amphibole					
Ambiguous					
Non-Asbestos					
Non-Identified					

NYC 9/11 Public Portal Document

TEM Asbestos (air) Count Sheet

Client Name:	ATC	**Volume (liters):**	1300
Lab Group #:	5802	**Filter Type / Filter Area:**	MCE 385 mm²
Lab Sample #:	17	**Grid Opening Size:**	0.01124
Client Sample #:	20	**Area Examined:**	0.06744 mm²
GRID BOX:	503	**Magnification:**	20,000
GRID ID:	9E2	**Accelerating Voltage:**	100 KeV
# Grid Openings:	6		

Analysis Performed By: RP
ROMAN PEYSAKHOV

GO. No	GO. Coord	Structure No	Structure Type F	B	C	M	Length >=05 µ <5µ	Length >=5µ	ID of Structure N or √ Chrys	Amphibole	Nonasb	Ambig/ND	EDS (Nonadb Elements)
1	V2	NSO											
3	P2	4											
3	I2	4											
4	P9	4											
5	I8	17											
6	J2	11											

Struct = > 0.5µ > 5:1 Aspect Ratio

√= Positive diffraction pattern properties conforming to laboratory identification criteria observed

√= EDS spectrum conforming to laboratory identification criteria observed

F = Single Fiber
B = Bundle (<3 fibers <1 fiber diameter apart
C = Cluster (>3 Intersections)
M = Matrix
NSD = No Structures Detected

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

AMPHIBOLES
Amosite
Crocidolite
Anthophyllite
Tremolite
Actinolite

Totals

	F	B	C	M	>5µ
Chrysotile					
Amphibole					
Ambiguous					
Non-Asbestos					
Non-Identified					

NYC 9/11 Public Portal Document

TEM Asbestos (air) Count Sheet

Client Name:	ATC	**Volume (liters):**	1300
Lab Group #:	5802	**Filter Type / Filter Area:**	MCE 385 mm²
Lab Sample #:	18	**Grid Opening Size:**	0.01124
Client Sample #:	21 -	**Area Examined:**	0.06744 mm²
GRID BOX:	503	**Magnification:**	20,000
GRID ID:	9I 10B	**Accelerating Voltage:**	100 KeV
# Grid Openings:	6		

Analysis Performed By: RP

ROMAN PEYSAKHOV

GO. No	GO. Coord	Structure No	Structure Type F	B	C	M	Length >=05 µ <5µ	Length >=5µ	ID of Structure N or √ Chrys	Amphibole	Nonasb	Ambig/ND	EDS (Nonadb Elements)
9I	1 RV	NSD											
	2 K2	4											
	3 I2	11											
	4 Q2	11											
	5 J3	11											
10B	6 I3	11											

Struct = > 0.5µ .> 5:1 Aspect Ratio

√= Positive diffraction pattern properties conforming to laboratory identification criteria observed

√= EDS spectrum conforming to laboratory identification criteria observed

F = Single Fiber

B = Bundle (<3 fibers <1 fiber diameter apart

C = Cluster (>3 Intersections)

M = Matrix

NSD = No Structures Detected

Grid acceptance:

<50% undissolved filter, overlapped or folded

<10% particulate coverage >50% coverage ate least 20 unfolded or overlapped grid squares <5% holes or opaque areas

AMPHIBOLES

Amosite
Crocidolite
Anthophyllite
Tremolite
Actinolite

Totals

	F	B	C	M	>5µ
Chrysotile					
Amphibole					
Ambiguous					
Non-Asbestos					
Non-Identified					

NYC 9/11 Public Portal Document

TEM Asbestos (air) Count Sheet

Client Name:	ATC	**Volume (liters):**	1300
Lab Group #:	5802	**Filter Type / Filter Area:**	MCE 385 mm²
Lab Sample #:	19	**Grid Opening Size:**	0.01124
Client Sample #:	22 -	**Area Examined:**	0.06744 mm²
GRID BOX:	503	**Magnification:**	20,000
GRID ID:	1022	**Accelerating Voltage:**	100 KeV
# Grid Openings:	6		

Analysis Performed By: RP

ROMAN PEYSAKHOV

GO. No	GO. Coord	Structure No	Structure Type F	B	C	M	Length >=05 µ <5µ	Length >=5µ	ID of Structure N or √ Chrys	Amphibole	Nonasb	Ambig/ND	EDS (Nonadb Elements)
1	JZ	NSD											
2	QZ	4											
3	XZ	11											
4	IZ	11											
5	PZ	11											
6	VZ	11											

Struct = > 0.5µ .> 5:1 Aspect Ratio

√= Positive diffraction pattern properties conforming to laboratory identification criteria observed

√= EDS spectrum conforming to laboratory identification criteria observed

F = Single Fiber

B = Bundle (<3 fibers <1 fiber diameter apart

C = Cluster (>3 Intersections)

M = Matrix

NSD = No Structures Detected

Grid acceptance:

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

AMPHIBOLES

Amosite
Crocidolite
Anthophyllite
Tremolite
Actinolite

Totals

	F	B	C	M	>5µ
Chrysotile					
Amphibole					
Ambiguous					
Non-Asbestos					
Non-Identified					

NYC 9/11 Public Portal Document

TEM Asbestos (air) Count Sheet

Client Name:	ATC	**Volume (liters):**	1300
Lab Group #:	5802	**Filter Type / Filter Area:**	MCE 385 mm²
Lab Sample #:	20	**Grid Opening Size:**	0.01124
Client Sample #:	24 -	**Area Examined:**	0.06744 mm²
GRID BOX:	503	**Magnification:**	20,000
GRID ID:	10HJ	**Accelerating Voltage:**	100 KeV
# Grid Openings:	6		

Analysis Performed By: RP
ROMAN PEYSAKHOV

GO. No	GO. Coord	Structure No	Structure Type F	B	C	M	Length >=05 µ <5µ	Length >=5µ	ID of Structure N or √ Chrys	Amphibole	Nonasb	Ambig/ND	EDS (Nonadb Elements)
OH 1	RZ	NSD											
2	QZ	"											
3	PZ	"											
4	QZ	"											
5	SZ	"											
6	IZ	"											
QJ													

Struct = > 0.5µ _> 5:1 Aspect Ratio

√= Positive diffraction pattern properties conforming to laboratory identification criteria observed

√= EDS spectrum conforming to laboratory identification criteria observed

F = Single Fiber
B = Bundle (<3 fibers <1 fiber diameter apart
C = Cluster (>3 Intersections)
M = Matrix
NSD = No Structures Detected

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

AMPHIBOLES
Amosite
Crocidolite
Anthophyllite
Tremolite
Actinolite

Totals

	F	B	C	M	>5µ
Chrysotile					
Amphibole					
Ambiguous					
Non-Asbestos					
Non-Identified					

NYC 9/11 Public Portal Document

TEM Asbestos (air) Count Sheet

Client Name:	ATC	**Volume (liters):**	1300
Lab Group #:	5802	**Filter Type / Filter Area:**	MCE 385 mm²
Lab Sample #:	21	**Grid Opening Size:**	0.01124
Client Sample #:	25 -	**Area Examined:**	0.06744 mm²
GRID BOX:	503	**Magnification:**	20,000
GRID ID:	1LN	**Accelerating Voltage:**	100 KeV
# Grid Openings:	6		

Analysis Performed By: RP
ROMAN PEYSAKHOV

GO. No	GO. Coord	Structure No	Structure Type F	B	C	M	Length >=05 µ <5µ	Length >=5µ	ID of Structure N or √ Chrys	Amphibole	Nonasb	Ambig/ND	EDS (Nonadb Elements)
1L 1	R2	NSD											
2	R2	11											
3	J2	11											
4	V2	11											
5	P2	11											
1N 6	J2	11											

Struct = > 0.5µ _> 5:1 Aspect Ratio

√= Positive diffraction pattern properties conforming to laboratory identification criteria observed

√= EDS spectrum conforming to laboratory identification criteria observed

F = Single Fiber
B = Bundle (<3 fibers <1 fiber diameter apart
C = Cluster (>3 Intersections)
M = Matrix
NSD = No Structures Detected

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

AMPHIBOLES
Amosite
Crocidolite
Anthophyllite
Tremolite
Actinolite

Totals

	F	B	C	M	>5µ
Chrysotile					
Amphibole					
Ambiguous					
Non-Asbestos					
Non-Identified					

NYC 9/11 Public Portal Document

TEM Asbestos (air) Count Sheet

Client Name:	ATC	**Volume (liters):**	1300
Lab Group #:	5802	**Filter Type / Filter Area:**	MCE 385 mm²
Lab Sample #:	22	**Grid Opening Size:**	0.01124
Client Sample #:	26 -	**Area Examined:**	0.06744 mm²
GRID BOX:	503	**Magnification:**	20,000
GRID ID:	1PR	**Accelerating Voltage:**	100 KeV
# Grid Openings:	6		

Analysis Performed By: RP
ROMAN PEYSAKHOV

GO. No	GO. Coord	Structure No	Structure Type F	B	C	M	Length >=05 µ <5µ	Length >=5µ	ID of Structure N or √ Chrys	Amphibole	Nonasb	Ambig/ND	EDS (Nonadb Elements)
1P 1	E8	NSD											
2	J8	"											
3	P1	"											
4	Q2	"											
5	J2	"											
6	E2	"											
1R													

Struct = > 0.5µ > 5:1 Aspect Ratio

√= Positive diffraction pattern properties conforming to laboratory identification criteria observed

√= EDS spectrum conforming to laboratory identification criteria observed

F = Single Fiber
B = Bundle (<3 fibers <1 fiber diameter apart
C = Cluster (>3 intersections)
M = Matrix
NSD = No Structures Detected

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

AMPHIBOLES
Amosite
Crocidolite
Anthophyllite
Tremolite
Actinolite

Totals

	F	B	C	M	>5µ
Chrysotile					
Amphibole					
Ambiguous					
Non-Asbestos					
Non-Identified					

NYC 9/11 Public Portal Document

TEM Asbestos (air) Count Sheet

Client Name:	ATC	**Volume (liters):**	1300
Lab Group #:	5802	**Filter Type / Filter Area:**	MCE 385 mm²
Lab Sample #:	23	**Grid Opening Size:**	0.01124
Client Sample #:	27	**Area Examined:**	0.06744 mm²
GRID BOX:	543	**Magnification:**	20,000
GRID ID:	1T2K	**Accelerating Voltage:**	100 KeV
# Grid Openings:	6		

Analysis Performed By: RP
ROMAN PEYSAKHOV

GO. No	GO. Coord	Structure No	Structure Type F	B	C	M	Length >=05 µ <5µ	Length >=5µ	ID of Structure N or √ Chrys	Amphibole	Nonasb	Ambig/ND	EDS (Nonadb Elements)
1T 1	QZ	NSD											
2	JZ	"											
3	EZ	"											
4	IZ	"											
5	JZ	"											
2K 6	QZ	"											

Struct = > 0.5µ _> 5:1 Aspect Ratio

√= Positive diffraction pattern properties conforming to laboratory identification criteria observed

√= EDS spectrum conforming to laboratory identification criteria observed

F = Single Fiber
B = Bundle (<3 fibers <1 fiber diameter apart
C = Cluster (>3 Intersections)
M = Matrix
NSD = No Structures Detected

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

AMPHIBOLES
Amosite
Crocidolite
Anthophyllite
Tremolite
Actinolite

Totals

	F	B	C	M	>5µ
Chrysotile					
Amphibole					
Ambiguous					
Non-Asbestos					
Non-Identified					

NYC 9/11 Public Portal Document

TEM Asbestos (air) Count Sheet

Client Name:	ATC	**Volume (liters):**	1300
Lab Group #:	5802	**Filter Type / Filter Area:**	MCE 385 mm²
Lab Sample #:	24	**Grid Opening Size:**	0.01124
Client Sample #:	28 -	**Area Examined:**	0.06744 mm²
GRID BOX:	503	**Magnification:**	20,000
GRID ID:	2M0	**Accelerating Voltage:**	100 KeV
# Grid Openings:	6		

Analysis Performed By: RP
ROMAN PEYSAKHOV

GO. No	GO. Coord	Structure No	Structure Type F	B	C	M	Length >=05 µ <5µ	>=5µ	ID of Structure N or √ Chrys	Amphibole	Nonasb	Ambig/ND	EDS (Nonadb Elements)
1	N2	NSD											
2	P2	"											
3	Q2	"											
4	I2	"											
5	F2	"											
6	Q2	"											

Struct = > 0.5µ .> 5:1 Aspect Ratio

√= Positive diffraction pattern properties conforming to laboratory identification criteria observed

√= EDS spectrum conforming to laboratory identification criteria observed

F = Single Fiber
B = Bundle (<3 fibers <1 fiber diameter apart
C = Cluster (>3 intersections)
M = Matrix
NSD = No Structures Detected

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

AMPHIBOLES
Amosite
Crocidolite
Anthophyllite
Tremolite
Actinolite

Totals

	F	B	C	M	>5µ
Chrysotile					
Amphibole					
Ambiguous					
Non-Asbestos					
Non-Identified					

NYC 9/11 Public Portal Document

TEM Asbestos (air) Count Sheet

Client Name:	ATC	**Volume (liters):**	1300
Lab Group #:	5802	**Filter Type / Filter Area:**	MCE 385 mm²
Lab Sample #:	25	**Grid Opening Size:**	0.01124
Client Sample #:	29 -	**Area Examined:**	0.06744 mm²
GRID BOX:	903	**Magnification:**	20,000
GRID ID:	2DB	**Accelerating Voltage:**	100 KeV
# Grid Openings:	6		

Analysis Performed By: RP
ROMAN PEYSAKHOV

GO. No	GO. Coord	Structure No	Structure Type F	B	C	M	Length >=05 µ <5µ	Length >=5µ	ID of Structure N or √ Chrys	Amphibole	Nonasb	Ambig/ND	EDS (Nonadb Elements)
1	Q2	NSD											
2	P2	"											
3	N2	"											
4	R2	"											
5	J2	"											
6	I2	"											

Struct = > 0.5µ .> 5:1 Aspect Ratio

√= Positive diffraction pattern properties conforming to laboratory identification criteria observed

√= EDS spectrum conforming to laboratory identification criteria observed

F = Single Fiber
B = Bundle (<3 fibers <1 fiber diameter apart
C = Cluster (>3 intersections)
M = Matrix
NSD = No Structures Detected

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

AMPHIBOLES
Amosite
Crocidolite
Anthophyllite
Tremolite
Actinolite

Totals

	F	B	C	M	>5µ
Chrysotile					
Amphibole					
Ambiguous					
Non-Asbestos					
Non-Identified					

NYC 9/11 Public Portal Document

TEM Asbestos (air) Count Sheet

Client Name:	ATC	**Volume (liters):**	1300
Lab Group #:	5802	**Filter Type / Filter Area:**	MCE 385 mm²
Lab Sample #:	26	**Grid Opening Size:**	0.01124
Client Sample #:	30 -	**Area Examined:**	0.06744 mm²
GRID BOX:	503	**Magnification:**	20,000
GRID ID:	3LN	**Accelerating Voltage:**	100 KeV
# Grid Openings:	6		

Analysis Performed By: RP
ROMAN PEYSAKHOV

GO.		Structure No	Structure Type				Length		ID of Structure N or √				EDS (Nonadb Elements)
No	Coord		F	B	C	M	>=05 µ <5µ	>=5µ	Chrys	Amphibole	Nonasb	Ambig/ND	
3L 1	J2	NSD											
2	Q2	"											
3	V2	"											
4	E8	"											
5	J8	"											
3N 6	P9	"											

Struct = > 0.5µ .> 5:1 Aspect Ratio

√= Positive diffraction pattern properties conforming to laboratory identification criteria observed

√= EDS spectrum conforming to laboratory identification criteria observed

F = Single Fiber
B = Bundle (<3 fibers <1 fiber diameter apart
C = Cluster (>3 Intersections)
M = Matrix
NSD = No Structures Detected

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

AMPHIBOLES
Amosite
Crocidolite
Anthophyllite
Tremolite
Actinolite

Totals

	F	B	C	M	>5µ
Chrysotile					
Amphibole					
Ambiguous					
Non-Asbestos					
Non-Identified					

NYC-WTC_000124026

NYC 9/11 Public Portal Document

AIR MONITORING DATA AND CHAIN OF CUSTODY FORM

5802 26130 62708-62817

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:
Parc Place	Parc Place		D Star Solovey	HP-89
	2a. Project Address: 225 Rector Pl.	3a. Task #	4a. Air Sampler:	

5. Date:	6. Abatement Location:	7. ☐ PCM (0.8 micron MCE)	8. ☒ TEM (0.45 micron MCE)	9. Type:
10/31/01		Cassette/Filter Manufacture: ____ Lot #: ____	Cassette/Filter Manufacture: SKC Lot #: 98/117/167	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: 12a. IWA	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	14b. Avg	15. Total Air Vol. (liters)	16. # Fibers/Fields Minus Blank	17. Fiber Conc. F/CC
0102				Field Blank									
03				Field Blank									
04		X		Apt #	10:20	12:30	130	10.0	10.0	10	1300		
05		X		Apt #	10:25	12:35	130	10.0	10.0	10	1300		
06		X		Apt #	10:30	12:40	130	10.0	10.0	10	1300		
07		X		Apt #	10:35	12:45	130	10.0	10.0	10	1300		
08		X		Apt #	10:40	12:50	130	10.0	10.0	10	1300		
09		X		Apt #	10:55	13:05	130	10.0	10.0	10	1300		

PII

CHAIN OF CUSTODY

18. Relinquished By:	19. Received By:	20. Date:	21. Time:
I D Solovey			
II	JD	11/01/01	8 am
III			

26. ATC Project Manager: F. Burkhardt

27. Result To: F. Burkhardt

Beeper/Phone #'s: ____

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

22. Lab Name: ATC-TEM	23. Date:	24. Time:
a. Analyzed By: RKy	11.01	11:30
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

28. Comments:

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

NY-1 (1/01)

NYC-WTC_000124027

NYC 9/11 Public Portal Document

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: 5802 Pace Place	3. Project #	4. Project Monitor: Oskar Solorzy	4c. Rotameter Number:
Pace place	2a. Project Address: 225 Rector St.	3a. Task #	4a. Air Sampler:	HP89

5. Date:	6. Abatement Location:	7. ☐ PCM (0.8 micron MCE)	8. ☒ TEM (0.45 micron MCE)	9. Type:
10/31/01		Cassette/Filter Manufacture: ____ Lot #: ____	Cassette/Filter Manufacture: ____ Lot #: 9811/7617	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: 12a. IWA	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	14b. Avg	15. Total Air Vol. (liters)	16. # Fibers/Fields Minus Blank	17. Fiber Conc. F/CC
				Field Blank									
				Field Blank									
10		X		Apt #	11:00	13:10	130	10.0	10.0	10	1300		
11		X		Apt #	11:05	13:15	130	10.0	10.0	10	1300		
12		X		Apt #	11:10	13:20	130	10.0	10.0	10	1300		
13		X		Apt #	11:15	13:25	130	10.0	10.0	10	1300		
14		X		Apt #	11:20	13:30	130	10.0	10.0	10	1300		
15		X		Apt #	11:25	13:35	130	10.0	10.0	10	1300		
16		X		Apt #	11:30	13:40	130	10.0	10.0	10	1300		

PII

CHAIN OF CUSTODY

	18. Relinquished By:	19. Received By:	20. Date:	21. Time:
I	O Solorzy			
II		JD	11/01/01	8am
III				

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

22. Lab Name: ATC-TEM	23. Date:	24. Time:
a. Analyzed By: RRuf	11.01	11:30
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

26. ATC Project Manager:	27. Result To:	28. Comments:
F. Burkhardt	F Burkhardt	
	Beeper/Phone #'s:	

WHITE - File YELLOW - Client/Report PINK - Lab GOLDENROD - Field NY-1 (1/01)

NYC 9/11 Public Portal Document

AIR MONITORING DATA AND CHAIN OF CUSTODY FORM

ATC ASSOCIATES INC. 5802

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

PROJECT INFORMATION

1. Client:	2. Project Name / 2a. Project Address	3. Project # / 3a. Task #	4. Project Monitor: / 4a. Air Sampler:	4c. Rotameter Number:
Parc Place	Parc Place / 225 Rector Pl		Oskar Solovey /	HP-89

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:
10/31/01			9817/07	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: 12a. IWA	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	14b. Avg	15. Total Air Vol. (liters)	16. # Fibers/Fields Minus Blank	17. Fiber Conc. F/CC
				Field Blank									
				Field Blank									
17				Hallway floor #20	14:01	16:21	130	10.0	10.0	10	1300		
18				Hallway floor #15	14:04	16:27	130	10.0	10.0	10	1300		
19				Hallway floor #10	14:12	16:22	130	10.0	10.0	10	1300		
20				Hallway floor #5	14:17	16:27	130	10.0	10.0	10	1300		
21				Lobby hall	14:22	16:32	130	10.0	10.0	10	1300		
22				Apt # PII	14:27	16:37	130	10.0	10.0	10	1300		

CHAIN OF CUSTODY

	18. Relinquished By:	19. Received By:	20. Date:	21. Time:
I	Oskar Solovey			
II		FD	11/01/01	8am
III				

26. ATC Project Manager: F Burkhardt

27. Result To: E. Burkhardt

Beeper/Phone #'s

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

22. Lab Name: ATC-TEM	23. Date:	24. Time:
a. Analyzed By: RDY	11.01	11:30
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

WHITE - File YELLOW - Client/Report PINK - Lab GOLDENROD - Field NY-1 (1/01)

NYC-WTC_000124028

NYC 9/11 Public Portal Document

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

5802

1. Client:	2. Project Name	3. Project #	4. Project Monitor:	4c. Rotameter Number:
Pace Place	2a. Project Address 125 Rector St	3a. Task #	4a. Air Sampler:	HP89

5. Date:	6. Abatement Location:	7. ☐ PCM (0.8 micron MCE)	8. ☒ TEM (0.45 micron MCE)	9. Type:
10/30/01		Cassette/Filter Manufacture: Lot #:	Cassette/Filter Manufacture: Lot #:	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: 12a. IWA	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	14b. Avg	15. Total Air Vol. (liters)	16. # Fibers/Fields Minus Blank	17. Fiber Conc. F/CC
23				Field Blank Open 3 Ds Field Blank									
24				Out side build 5' from entr Rector Pl	15:20	17:30	130	10.0	10.0	10	1300		
25				Out side building Rector Pl 10' from entr left side	15:25	17:35	130	10.0	10.0	10	1300		
26				Outside buildin exit to court 5' from exit right side	15:30	17:40	130	10.0	10.0	10	1300		
27				Out side building exit to court 10' from exit left side	15:35	17:45	130	10.0	10.0	10	1300		
28				Outside building center of the court	15:40	17:50	130	10.0	10.0	10	1300		
29				Apt # PII	18:00	20:10	130	10.0	10.0	10	1300		
30				Apt #	18:10	20:20	130	10.0	10.0	10	1300		

CHAIN OF CUSTODY

	18. Relinquished By:	19. Received By:	20. Date:	21. Time:
I	Rahat Sobovey			
II		FD	10/31/01	8am
III				

26. ATC Project Manager: F. Burkhardt

27. Result To: F Burkhardt

Beeper/Phone #'s:

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

22. Lab Name: ATC-TEM	23. Date:	24. Time:
a. Analyzed By: RRey	11.01	11:30
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

28. Comments:

WHITE - File YELLOW - Client/Report PINK - Lab GOLDENROD - Field NY-1 (1/01)

NYC 9/11 Public Portal Document

ATTACHMENT 3
ROOF DEBRIS CLEAN-UP

BULK SAMPLE RESULTS

NYCDEP NOTIFICATION
&
PCM AIR SAMPLE RESULTS

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NYC-WTC_000124030

NYC 9/11 Public Portal Document

VATC ASSOCIATES INC.

Page _____ of _____

BATCH NO. 19533

BULK SAMPLE DATA AND CHAIN OF CUSTODY FORM

PROJECT INFORMATION

1. Client:	2. Project Name: 325 Fulton St	3. Project No:	4. Project Manager: T. Burman
RELATED	2a. Project Address:	1622-13	4a. Investigator: M. Arkman

5. Date:	6. Building Name: PARC PLAZA	8. Turnaround Time:	9. Comments (Field)
9/25/01	7. Sampling Areas: ROOF	~~STAT~~ ☐ 24 HRS ☐ 72 HRS ☐ OTHER ☐ 6 HRS ☐ 48 HRS ☐ NORMAL ☐ _____	

BULK SAMPLE LOCATION

10. Homogenous Area No.	11. Bulk Sample ID No.	12. Material	13. Thermal System	14. Sample Location: Floor	14. Sample Location: Sample Coordinates	15. Material Total Quantity (LF, SF, PCS)	16. Asbestos Content (Type & %)
1	1	DEBRIS			AFT PII ROOF		TPC
1	2				PARC ROOF		14C
1	3				AFT PII -ROOF		

1 15 9 10 10 12 5 13 15 3

CHAIN OF CUSTODY

17. Relinquished By:	18. Date:	19. Time:	20. Received By:	21. Date:	22. Time:
I J. Rouil	9/25/01			9/26/01	8am
II					
III					

23. Method of Submittal:	
FIELD	
WALK IN	
US MAIL	
FED EX	
OTHER _____	

LAB INFORMATION

24. Name and Signature	25. Date:	26. Time:
24a. Analyzed By:	9/26/01	9am
24b. Analyzed By:		
24c. QC By:		

27. Comments (Lab)

3 PLM

NY-13 (3/99)

NYC-WTC_000124031

NYC 9/11 Public Portal Document

ATC ASSOCIATES INC - NEW YORK BULK ASBESTOS ANALYSIS SHEET

104 East 25th Street, 10th Floor . New York, NY 10010 . Phone (212) 353 - 8280, FAX (212) 353 - 3599 or 8306

NVLAP 101187
ELAP 10879
Microscope OLYP BH-2

Client / Project Related / 225 Rector PL — Project No. 05622-13

Analysis Date 3/26/01 — Analyst [illegible] — Batch No. 19533

1 Field No. 1	Stereoscopic Exam	PLM Optical Properties	Asbestos Results PLM %	Other Fibrous %	Non Fibrous %	Gravimetric (NOB) Results %
Gravimetric (NOB) Required [X]	Color Tan — Texture F	Morphology CW — Extinction P	TR Chrysotile	25 Cellulose	60 Mineral Filler	____ Organic
Recommended [ ]	Homogenity V	RI I (-) — RI II (-)	____ Amosite	15 Fiberglass	____ Organic Binders	____ Residue
Gravimetric PREP [ ]	# of Layers 1 — Asbestos [X] [ ]	DS Color [illegible] — Color,Pleo C	____ Other	____ Other	____ Vermiculite	____ Carbonate
Gravimetric (NOB) PLM [ ]	Color of Layer ____ — Detected Yes No	Biref ____ — Sign +			____ Other	____ Other
Gravimetric (NOB) TEM [ ]	Comments:			q.c. [ ]		____ Asbestos
POINT COUNT RESULTS ON THE BACK	Method: [X] ELAP + EPA¹ [ ] ELAP [ ] EPA¹ [ ] OTHER [ ] SCANNING OPTION: ELAP (P.C.) & EPA¹ First 4 preps. Asbestos = 0					

2 Field No. 2	Stereoscopic Exam	PLM Optical Properties	Asbestos Results PLM %	Other Fibrous %	Non Fibrous %	Gravimetric (NOB) Results %
Gravimetric (NOB) Required [ ]	Color Tan — Texture F	Morphology CW — Extinction P	1.4 Chrysotile	3.6 Cellulose	60 Mineral Filler	____ Organic
Recommended [ ]	Homogenity V	RI I (-) — RI II (-)	____ Amosite	30 Fiberglass	____ Organic Binders	____ Residue
Gravimetric PREP [ ]	# of Layers 1 — Asbestos [X] [ ]	DS Color [illegible] — Color,Pleo C	____ Other	____ Other	____ Vermiculite	____ Carbonate
Gravimetric (NOB) PLM [ ]	Color of Layer ____ — Detected Yes No	Biref ____ — Sign +			____ Other	____ Other
Gravimetric (NOB) TEM [ ]	Comments:			q.c. [ ]		____ Asbestos
POINT COUNT RESULTS ON THE BACK	Method: [ ] ELAP + EPA¹ [ ] ELAP [ ] EPA¹ [ ] OTHER [ ] SCANNING OPTION: ELAP (P.C.) & EPA¹ First 4 preps. Asbestos = 0					

3 Field No. 3	Stereoscopic Exam	PLM Optical Properties	Asbestos Results PLM %	Other Fibrous %	Non Fibrous %	Gravimetric (NOB) Results %
Gravimetric (NOB) Required [ ]	Color Tan — Texture F	Morphology CW — Extinction P	TR Chrysotile	20 Cellulose	10 Mineral Filler	____ Organic
Recommended [X]	Homogenity V	RI I (-) — RI II (-)	____ Amosite	30 Fiberglass	____ Organic Binders	____ Residue
Gravimetric PREP [ ]	# of Layers 1 — Asbestos [X] [ ]	DS Color [illegible] — Color,Pleo C	____ Other	____ Other	____ Vermiculite	____ Carbonate
Gravimetric (NOB) PLM [ ]	Color of Layer ____ — Detected Yes No	Biref ____ — Sign +			____ Other	____ Other
Gravimetric (NOB) TEM [ ]	Comments:			q.c. [ ]		____ Asbestos
POINT COUNT RESULTS ON THE BACK	Method: [X] ELAP + EPA¹ [ ] ELAP [ ] EPA¹ [ ] OTHER [ ] SCANNING OPTION: ELAP (P.C.) & EPA¹ First 4 preps. Asbestos = 0					

4 Field No.	Stereoscopic Exam	PLM Optical Properties	Asbestos Results PLM %	Other Fibrous %	Non Fibrous %	Gravimetric (NOB) Results %
Gravimetric (NOB) Required [ ]	Color ____ — Texture ____	Morphology ____ — Extinction ____	____ Chrysotile	____ Cellulose	____ Mineral Filler	____ Organic
Recommended [ ]	Homogenity ____	RI I ____ — RI II ____	____ Amosite	____ Fiberglass	____ Organic Binders	____ Residue
Gravimetric PREP [ ]	# of Layers ____ — Asbestos [ ] [ ]	DS Color ____ — Color,Pleo ____	____ Other	____ Other	____ Vermiculite	____ Carbonate
Gravimetric (NOB) PLM [ ]	Color of Layer ____ — Detected Yes No	Biref ____ — Sign ____			____ Other	____ Other
Gravimetric (NOB) TEM [ ]	Comments:			q.c. [ ]		____ Asbestos
POINT COUNT RESULTS ON THE BACK	Method: [ ] ELAP + EPA¹ [ ] ELAP [ ] EPA¹ [ ] OTHER [ ] SCANNING OPTION: ELAP (P.C.) & EPA¹ First 4 preps. Asbestos = 0					

NYC 9/11 Public Portal Document

VATC ASSOCIATES INC

AIR MONITORING DATA AND CHAIN OF CUSTODY FORM

Page _____ of _____

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:
Realted Mgmt	2a. Project Address 225 Rector Pl.	3a. Task #	4a. Air Sampler:	RW-01

5. Date:	6. Abatement Location:	7. ☒ PCM (0.8 micron MCE)	8. ☐ TEM (0.45 micron MCE)	9. Type:
10-01-01	Pool Roof	Cassette/Filter Manufacture _____ Lot # _____	Cassette/Filter Manufacture _____ Lot # _____	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 12a. IWA	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	14b. Avg	15. Total Air Vol. (liters)	16. # Fibers/Fields Minus Blank	17. Fiber Conc. F/CC
01				Field Blank								0/100	
02				Field Blank								0/100	
PR-03		✓		North Side of Pool Roof	14:02	19:02	300	5.0	5	5	1500	3/100	<0.003
PR-04		✓		South Side of Pool Roof	14:04	19:04	300	5.0	5	5	1500	1/100	<0.003
PR-05		✓		West Side of Pool Roof	14:06	19:07	301	5.0	5	5	1505	5/100	<0.003
PR-06		✓		East Side of Pool Roof	14:06	19:09	301	5.0	5	5	1505	4/100	<0.003
PR-07		✓		Center of Pool Roof	14:10	19:11	301	5.0	5	5	1505	2/100	<0.003
PR-08			✓	By ENT to Pool Roof	14:13	19:14	301	5.0	5	5	1505	3/100	<0.003

CHAIN OF CUSTODY

18. Relinquished By:	19. Received By:	20. Date:	21. Time:
	R. Proudina	10.01.01	20.00
I			
II			

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

22. Lab Name:	23. Date:	24. Time:
a. Analyzed By: R. Proudina	10.01.01	20.30
b. QC By:		
c. Lab Batch #: 97223		

25. Microscope Make/Serial #:
☐ Nikon Labophot 238913
☐ Olympus 1035
☐ Nikon Labophot 238917
☐ Nikon Labophot 239079

Analysis Methodology
PCM - NIOSH 7400A
TEM - AHERA

26. ATC Project Manager:

27. Results to: FAX 1212-945-3768
Beeper/Phone #'s _____

28. Comments:

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

NY-1 (1/01)

NYC-WTC_000124033

NYC 9/11 Public Portal Document

AIR MONITORING DATA AND CHAIN OF CUSTODY FORM

Page _____ of _____

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:
Ground Improv	2a. Project Address 225 Rector Pl	3a. Task #	4a. Air Sampler:	RW-01

5. Date:	6. Abatement Location:	7. ☒ PCM (0.8 micron MCE)	8. ☐ TEM (0.45 micron MCE)	9. Type:
10-01-01	Pool Roof	Cassette/Filter Manufacture _____ Lot # _____	Cassette/Filter Manufacture _____ Lot # _____	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 12a. IWA	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	14b. Avg	15. Total Air Vol. (liters)	16. # Fibers/Fields Minus Blank	17. Fiber Conc. F/CC
				Field Blank									
				Field Blank									
PR-09			✓	Cleared Room Personal Decon	14:15	19:07	302	5.0	5	5	1510	2/100	< 0.003

CHAIN OF CUSTODY

18. Relinquished By:	19. Received By:	20. Date:	21. Time:
	R. Drouding a	10.01.01	20.00
I			
II			

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

22. Lab Name:	23. Date:	24. Time:
a. Analyzed By: R. Drouding	10.01.01	20.30
b. QC By:		
c. Lab Batch #: 97223		

25. Microscope Make/Serial #: Olympus 1025
☐ Nikon Labophot 238913
☐ Nikon Labophot 238917
☐ Nikon Labophot 239079

Analysis Methodology
PCM - NIOSH 7400A
TEM - AHERA

26. ATC Project Manager: Fred B

27. Result To: By #1
Beeper/Phone #'s _____

28. Comments:

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

NY-1 (1/01)

NYC-WTC_000124034

NYC 9/11 Public Portal Document

VATC ASSOCIATES INC.

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

Client:	2. Project Name	3. Project #	4. Project Monitor:	4c. Rotameter Number:
Realated Mgmt	2a. Project Address 225 Rector Pl	3a. Task #	4a. Air Sampler: Michael Avdelora	FW-01

Date:	6. Abatement Location:	7. ☒ PCM (0.8 micron MCE)	8. ☐ TEM (0.45 micron MCE)	9. Type:
10-02-01	Pool Roof W/A Macneil Roof	Cassette/Filter Manufacture ____ Lot # ____	Cassette/Filter Manufacture ____ Lot # ____	a. ☐ Background b. ☒ Pre-Abate c. ☒ Abatement d. ☐ Post-Abate e. ☐ OSHA f. ☐ Environmental g. ☐ Ambient h. ☐ Other

DAILY AIR SAMPLE RECORD

Sample I.D. Number	11. Pump Number	12. Sample Location 12a. IWA	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	14b. Avg	15. Total Air Vol. (liters)	16. # Fibers/Fields Minus Blank	17. Fiber Conc. F/CC
01				Field Blank								0/100	
02				Field Blank								0/100	
Large Pool Roof PR-03		✓		North Side of Large Pool Roof	09:00	18:00	540	3	3	3	1620	15/100	0.005
PR-04		✓		West Side of Large Pool Roof	09:02	18:03	541	3	3	3	1623	9/100	<0.003
PR-05		✓		East Side of Large Pool Roof	09:04	18:05	541	3	3	3	1623	33.5/100	0.010
Smaller Pool Roof PR-06		✓		North Side of Small Pool Roof	09:08	18:09	541	3	3	3	1623	2/100	<0.003
PR-07		✓		South Side of Smaller Pool Roof	09:010	18:12	542	3	3	3	1626	37/100	0.011
PR-08		✓		West Side of Smaller Pool Roof	09:12	18:14	542	3	3	3	1626	1/100	<0.003

CHAIN OF CUSTODY

Relinquished By:	19. Received By:	20. Date:	21. Time:
[signature]	[signature]	10/02/01	1950

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

22. Lab Name:	23. Date:	24. Time:
a. Analyzed By: [signature]	10/02/01	2035
b. QC By:		
c. Lab Batch #: 97230		

25. Microscope Make/Serial #: Olympus CH30
☐ Nikon Labophot 238913
☐ Nikon Labophot 238917
☐ Nikon Labophot 239079

Analysis Methodology
PCM - NIOSH 7400A
TEM - AHERA

ATC Project Manager: Fred B.

27. Result To: FAX 1212-945 3768
Beeper/Phone #'s ____

28. Comments:

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

NY-1 (1/01)

NYC-WTC_000124035

NYC 9/11 Public Portal Document

VATC ASSOCIATES INC.

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

Client:	2. Project Name	3. Project #	4. Project Monitor:	4c. Rotameter Number:
Federated Market	2a. Project Address 225 Rector PL	3a. Task #	4a. Air Sampler:	FW-01

Date:	6. Abatement Location:	7. ☒ PCM (0.8 micron MCE)	8. ☐ TEM (0.45 micron MCE)	9. Type:		
10-02-01	Large PR W/A Smaller PR Macanul Roof	Cassette/Filter Manufacture ____ Lot # ____	Cassette/Filter Manufacture ____ Lot # ____	a. ☐ Background b. ☒ Pre-Abate	c. ☒ Abatement d. ☐ Post-Abate e. ☐ OSHA	f. ☐ Environmental g. ☐ Ambient h. ☐ Other

DAILY AIR SAMPLE RECORD

Sample I.D. Number	11. Pump Number	12. Sample Location 12a. IWA	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	14b. Avg	15. Total Air Vol. (liters)	16. # Fibers/Fields Minus Blank	17. Fiber Conc. F/CC
				Field Blank									
				Field Blank									
MACANIC ROOF PR 09		✓		North Side of MACANIC ROOF	09:16	18:17	541	3	3	3	1623	1/100	<0.003
PR 10		✓		West Side of MACANIC ROOF	09:17	18:19	542	3	3	3	1626	3/100	<0.003
PR 11		✓		East Side of MACANIC ROOF	09:18	18:20	542	3	3	3	1626	4/100	<0.003
PR 12			✓	Clean Room Personal Decon.	09:20	18:21	541	3	3	3	1623	2/100	<0.003
PR 13			✓	Next to ENT of Pool.	09:22	18:22	540	3	3	3	1620	1/100	<0.003

CHAIN OF CUSTODY

Relinquished By:	19. Received By:	20. Date:	21. Time:
		10/02/01	1950

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

22. Lab Name:	23. Date:	24. Time:
a. Analyzed By:	10/02/01	2035
b. QC By:		
c. Lab Batch #: 97230		

25. Microscope Make/Serial #:
☐ Nikon Labophot 238913
☐ Nikon Labophot 238917
☐ Nikon Labophot 239079
☐ OLYMPUS CH21-015

Analysis Methodology
(PCM - NIOSH 7400A)
TEM - AHERA

ATC Project Manager: Fred. B.

27. Result To: PJ #1
Beeper/Phone #'s ____

28. Comments:

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

NY-1 (1/01)

NYC-WTC_000124036

NYC 9/11 Public Portal Document

ATC ASSOCIATES INC.

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

Client:	2. Project Name / 2a. Project Address	3. Project # / 3a. Task #	4. Project Monitor: / 4a. Air Sampler:	4c. Rotameter Number:
Realated Mgmnt	225 Rector Pl		Michael / Rudolph	FW-01

Date:	6. Abatement Location:	7. ☒ PCM (0.8 micron MCE)	8. ☐ TEM (0.45 micron MCE)	9. Type:
10-03-01	LARGE Pool Roof, Smaller Pool Roof, Adjacent Roof	Cassette/Filter Manufacture: Lot #:	Cassette/Filter Manufacture: Lot #:	a. ☐ Background b. ☐ Pre-Abate c. ☒ Abatement d. ☐ Post-Abate e. ☐ OSHA f. ☐ Environmental g. ☐ Ambient h. ☐ Other

DAILY AIR SAMPLE RECORD

Sample I.D. Number	11. Pump Number	12. Sample Location: 12a. IWA	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	14b. Avg	15. Total Air Vol. (liters)	16. # Fibers/Fields Minus Blank	17. Fiber Conc. F/CC
01				Field Blank								0/100	
02				Field Blank								0/100	
LARGE Pool Roof 03		✓		North Side of Pool Roof	08:00	15:00	420	3	3	3	1260	1/100	<0.004
04		✓		West Side of Pool Roof	08:02	15:03	421	3	3	3	1263	4/100	<0.004
05		✓		East Side of Pool Roof	08:04	15:05	421	3	3	3	1263	3/100	<0.004
Smaller Pool Roof 06		✓		North Side of Pool Roof	08:08	15:07	419	3	3	3	1257	36/100	0.014
07		✓		East Side of Pool Roof	08:10	15:11	421	3	3	3	1263	28/100	0.011
08		✓		South Side of Pool Roof	08:13	15:12	419	3	3	3	1257	1/100	<0.004

CHAIN OF CUSTODY

Relinquished By:	19. Received By:	20. Date:	21. Time:
Michael	Rudolph	10/03/01	2030

ATC Project Manager: Fred

27. Results To: FAX 1 212 945-3768
Beeper/Phone #'s:

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

22. Lab Name:	23. Date:	24. Time:
a. Analyzed By: Rudolph	10/04/01	21.20
b. QC By:		
c. Lab Batch #: 97242		

25. Microscope Make/Serial #: OLYMPUS/1005
☐ Nikon Labophot 238913
☐ Nikon Labophot 238917
☐ Nikon Labophot 239079

Analysis Methodology
PCM - NIOSH 7400A
TEM - AHERA

28. Comments:

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

NY-1 (1/01)

NYC-WTC_000124037

NYC 9/11 Public Portal Document

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

Client:	2. Project Name	3. Project #	4. Project Monitor:	4c. Rotameter Number:
Realcovered Mgmt	2a. Project Address 225 Reador PL	3a. Task #	4a. Air Sampler:	FW-01

Date:	6. Abatement Location:	7. ☒ PCM (0.8 micron MCE)	8. ☐ TEM (0.45 micron MCE)	9. Type:
9-23-01		Cassette/Filter Manufacture ____ Lot # ____	Cassette/Filter Manufacture ____ Lot # ____	a. ☐ Background b. ☐ Pre-Abate c. ☒ Abatement d. ☐ Post-Abate e. ☐ OSHA f. ☐ Environmental g. ☐ Ambient h. ☐ Other

DAILY AIR SAMPLE RECORD

Sample I.D. Number	11. Pump Number	12. Sample Location: 12a. IWA	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	14b. Avg	15. Total Air Vol. (liters)	16. # Fibers/Fields Minus Blank	17. Fiber Conc. F/CC
				Field Blank									
				Field Blank									
MECHANICAL ROOF 09		✓		North Side of Mechanical Roof	08:16	15:17	421	3	3	3	1263	1/100	<0.004
10		✓		West Side of Mechanical Roof	08:17	15:18	421	3	3	3	1263	1/100	<0.004
11		✓		East Side of Mechanical Roof	08:18	15:19	421	3	3	3	1263	2/100	<0.004
12			✓	Clean Room Personal Decon	08:21	15:22	421	3	3	3	1263	1/100	<0.004
13			✓	Next to ENT of Pool Area	08:25	15:26	421	3	3	3	1263	4/100	<0.004

CHAIN OF CUSTODY

Relinquished By:	19. Received By:	20. Date:	21. Time:
		10/03/01	2030

ATC Project Manager:

27. Result To: ____
Beeper/Phone #'s ____

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

22. Lab Name:	23. Date:	24. Time:
a. Analyzed By:	10/03/01	21:20
b. QC By:		
c. Lab Batch #: 97242		

28. Comments:

25. Microscope Make/Serial #: REYNOLDS CM2/1025
☐ 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)

NYC-WTC_000124038

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VATC ASSOCIATES INC.

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

Client:	2. Project Name / 2a. Project Address	3. Project # / 3a. Task #	4. Project Monitor: / 4a. Air Sampler:	4c. Rotameter Number:
Related Mgmt	225 Rector pl / 225 Rector pl		Ruben Acosta / R. Acosta	HP-60

Date:	6. Abatement Location:	7. ☑ PCM (0.8 micron MCE)	8. ☐ TEM (0.45 micron MCE)	9. Type:
10.5.01	roof	Cassette/Filter Manufacture: Nuclepore; Lot #	Cassette/Filter Manufacture; Lot #	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: 12a. IWA	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	14b. Avg	15. Total Air Vol. (liters)	16. # Fibers/Fields Minus Blank	17. Fiber Conc. F/CC
01				Field Blank								0/100	
02				Field Blank								0/100	
03			✓	South roof	7:55	2:35	455	5.0	5.0	5.0	2275	3/100	<0.002
04			✓	center roof	7:56	2:36	455	5.0	5.0	5.0	2275	4/100	<0.002
05			✓	North roof	7:57	2:37	455	5.0	5.0	5.0	2275	2/100	<0.002

CHAIN OF CUSTODY

18. Relinquished By:	19. Received By:	20. Date:	21. Time:
R. Acosta	[illegible]	10/5/01	2140

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

22. Lab Name:	23. Date:	24. Time:
a. Analyzed By: [illegible]	10/5/01	2225
b. QC By:		
c. Lab Batch #: 97278		

25. Microscope Make/Serial #: OLYMPUS CH30 1ous
☐ Nikon Labophot 238913
☐ Nikon Labophot 238917
☐ Nikon Labophot 239079

Analysis Methodology
✓ PCM - NIOSH 7400A
TEM - AHERA

26. ATC Project Manager: E. Burkhardt

27. Result To: _____
Beeper/Phone #'s 212-945-3768

28. Comments:

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

NY-1 (1/01)

NYC-WTC_000124039

NYC 9/11 Public Portal Document

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:
Related Agmt	225 Rector Pl		Ruben Acosta	HP-60
	2a. Project Address: 225 Rector Pl.	3a. Task #	4a. Air Sampler: R. Acosta	

5. Date:	6. Abatement Location:	7. ☑ PCM (0.8 micron MCE)	8. ☐ TEM (0.45 micron MCE)	9. Type:
10-5-01	Roof Parking & Large	Cassette/Filter Manufacture: Nuclepore; Lot #	Cassette/Filter Manufacture; Lot #	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 12a. IWA	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	14b. Avg	15. Total Air Vol. (liters)	16. # Fibers/Fields Minus Blank	17. Fiber Conc. F/CC
01				Field Blank								0/100	
02				Field Blank								0/100	
03		✓		North West side of large roof	3:00	5:00	120	15.0	15.0	15.0	1800	2/100	<0.003
04		✓		East side of large roof	3:01	5:01	120	15.0	15.0	15.0	1800	1/100	<0.003
05		✓		South side of large roof	3:02	5:02	120	15.0	15.0	15.0	1800	1/100	<0.003
06		✓		West side of parking roof	3:04	5:04	120	15.0	15.0	15.0	1800	1/100	<0.003
07		✓		South West side of roof	3:05	5:05	120	15.0	15.0	15.0	1800	2/100	<0.003
08		✓		Center of the parking roof	3:06	5:06	120	15.0	15.0	15.0	1800	3/100	<0.003

CHAIN OF CUSTODY

18. Relinquished By:	19. Received By:	20. Date:	21. Time:
R. Acosta	RHogs	10/05/01	2140
I			
II			

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

22. Lab Name:	23. Date:	24. Time:
a. Analyzed By: RHogs	10/05/01	22.15
b. QC By:		
c. Lab Batch #: 97277		

25. Microscope Make/Serial #: Olympus CH30 #6
☐ Nikon Labophot 238913
☐ Nikon Labophot 238917
☐ Nikon Labophot 239079

Analysis Methodology
✓PCM - NIOSH 7400A
TEM - AHERA

26. ATC Project Manager: E. Burkhardt

27. Result To:
Beeper/Phone #'s 212-945-3768

28. Comments:

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

NY-1 (1/01)

NYC-WTC_000124040

NYC 9/11 Public Portal Document

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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

Client:	2. Project Name	3. Project #	4. Project Monitor	4c. Rotameter Number:
Realated mgmt	225 Rector Pl		Ruben Acosta	
	2a. Project Address: 225 Rector Pl.	3a. Task #	4a. Air Sampler: R. Acosta	Hp-60

Date:	6. Abatement Location:	7. ☑ PCM (0.8 micron MCE)	8. ☐ TEM (0.45 micron MCE)	9. Type:
10-5-01	Mecanic Roof	Cassette/Filter Manufacture: Nuclepore; Lot #	Cassette/Filter Manufacture; Lot #	a. ☐ Background b. ☐ Pre-Abate c. ☐ Abatement d. ☑ Post-Abate e. ☐ OSHA f. ☐ Environmental g. ☐ Ambient h. ☐ Other

DAILY AIR SAMPLE RECORD

Sample I.D. Number	11. Pump Number	12. Sample Location: 12a. IWA	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	14b. Avg	15. Total Air Vol. (liters)	16. # Fibers/Fields Minus Blank	17. Fiber Conc. F/CC
				Field Blank									
				Field Blank									
09		✓		South East side of Mecanic roof	3:08	5:08	120	15.0	15.0	15.0	1800	1/100	<0.003
10		✓		by the middle of Mecanic roof	3:09	5:09	120	15.0	15.0	15.0	1800	2/100	<0.003
11		✓		East side of Mecanic roof	3:10	5:10	120	15.0	15.0	15.0	1800	4/100	<0.003

CHAIN OF CUSTODY

18. Relinquished By:	19. Received By:	20. Date:	21. Time:
R. Acosta	[signature]	10/05/01	21.40

26. ATC Project Manager:	27. Result To:	28. Comments:
E. Burkhardt	Beeper/Phone #'s 212-945-3768	

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

22. Lab Name:	23. Date:	24. Time:
a. Analyzed By: [signature]	10/05/01	22.15
b. QC By:		
c. Lab Batch #: 97277		

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)

NYC-WTC_000124041

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ATTACHMENT 4
AIR SAMPLING DATA & CHAIN OF CUSTODY FORM,

PCM FIBERGLASS AIR SAMPLES

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AIR MONITORING DATA AND CHAIN OF CUSTODY FORM

Fiberglass

Fiberglass

Page _____ of _____

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:
225 Rector PL	2a. Project Address: 225 Rector PL NYNY	0622-13	Vik Anastislovsky	SD-132
		3a. Task #	4a. Air Sampler:	

5. Date:	6. Abatement Location:	7. ☒ PCM (0.8 micron MCE)	8. ☐ TEM (0.45 micron MCE)	9. Type:		
11/16/01	Lobby	Cassette/Filter Manufacture MIDI	Cassette/Filter Manufacture X	a. ☐ Background	c. ☐ Abatement	f. ☐ Environmental
		Lot # 0105195	Lot #	b. ☐ Pre-Abate	d. ☐ Post-Abate	g. ☒ Ambient
					e. ☐ OSHA	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			
B-1				Field Blank Field Blank								0/100	
1				Lobby West side	1100	1300	120	15	15	15	1800	9/100	<.003
2				Lobby east side	1102	1302	120	15	15	15	1800	16/100	<.003
3				Lobby North side	1105	1305	120	15	15	15	1800	18/100	<.003
4				Lobby South side	1107	1307	120	15	15	15	1800	9/100	<.003
5				Lobby Middle.	1110	1310	120	15	15	15	1800	15/100	<.003

CHAIN OF CUSTODY

18. Relinquished By:	19. Received By:	20. Date:	21. Time:
I [signature]	[signature]	11/16/01	2210
II			
III			

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

22. Lab Name:	23. Date:	24. Time:
a. Analyzed By: [signature]	11/18/01	0500
b. QC By:		
c. Lab Batch #: 97985		

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

Analysis Methodology
PCM - NIOSH 7400A
TEM - AHERA

26. ATC Project Manager:	27. Result To:	28. Comments:
Fred Burkhardt	Fred Burkhardt	
	Beeper/Phone #'s _____	

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

NY-1 (1/01)

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AIR MONITORING DATA AND CHAIN OF CUSTODY FORM

ATC ASSOCIATES INC.

Page _____ of _____

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: Jim Hnatiouk / 4a. Air Sampler:	4c. Rotameter Number:
225 Rector PL	2a. Project Address: 225 Rector PL NY NY			SD-132

5. Date:	6. Abatement Location:	7. ☐ PCM (0.8 micron MCE) Cassette/Filter Manufacture: NMT Lot #:	8. ☐ TEM (0.45 micron MCE) Cassette/Filter Manufacture: A Lot #:	9. Type: a. ☐ Background b. ☐ Pre-Abate c. ☐ Abatement d. ☐ Post-Abate e. ☐ OSHA f. ☐ Environmental g. ☒ Ambient h. ☐ Other
11-28-01				

DAILY AIR SAMPLE RECORD

10. Sample I.D. Number	11. Pump Number	12. Sample Location 12a. IWA	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	14b. Avg	15. Total Air Vol. (liters)	16. # Fibers/Fields Minus Blank	17. Fiber Conc. F/CC
				Field Blank									
				Field Blank									
1		V		Lobby	1300	1500	120	15	15	15	1800	9/100	<.003
2		V		Hallway 5 FL	1305	1505	120	15	15	15	1800	11/100	<.003
3		V		Hallway 10 FL	1310	1510	120	15	15	15	1800	5/100	<.003
4		V		Hallway 15 FL	1315	1515	120	15	15	15	1800	5/100	<.003
5		V		Hallway 20 FL	1320	1520	120	15	15	15	1800	8/100	<.003

CHAIN OF CUSTODY

	18. Relinquished By:	19. Received By:	20. Date:	21. Time:
I			11/28/01	2215
II				
III				

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

22. Lab Name:	23. Date:	24. Time:
a. Analyzed By:	11/29/01	0600
b. QC By:		
c. Lab Batch #: 98119		

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

Analysis Methodology
PCM - NIOSH 7400A
TEM - AHERA

26. ATC Project Manager:	27. Result To:	28. Comments:
Fred Burkhardt	Fred Burkhardt Beeper/Phone #'s	

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

NY-1 (1/00)

NYC-WTC_000124044

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ATTACHMENT 5
ACCUMULATED APARTMENT DUST
BULK SAMPLE RESULTS

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Page _____ of _____

BATCH NO. 19511

BULK SAMPLE DATA AND CHAIN OF CUSTODY FORM

PROJECT INFORMATION

1. Client:	2. Project Name: 225 [illegible]	3. Project No:	4. Project Manager: E. [illegible]
[illegible]	2a. Project Address:		4a. Investigator:

5. Date:	6. Building Name:	8. Turnaround Time:	9. Comments (Field)
9/21/01	7. Sampling Areas:	☒ STAT ☐ 24 HRS ☐ 72 HRS ☐ OTHER ☐ 6 HRS ☐ 48 HRS ☐ NORMAL ☐ _____	Rush [illegible]

BULK SAMPLE LOCATION

10. Homogenous Area No.	11. Bulk Sample ID No.	12. Material	13. Thermal System	14 Sample Location: Floor	14 Sample Location: Sample Coordinates	15. Material Total Quantity (LF, SF, PCS)	16. Asbestos Content (Type & %)
1	1	DUST			12 D		
1	2	"			12 D		
1	3	"			7 C		

CHAIN OF CUSTODY

	17. Relinquished By:	18. Date:	19. Time:	20. Received By:	21. Date:	22. Time:
I	[illegible]	9/21/01		[illegible]	9/21/01	
II						
III						

23. Method of Submittal:	
FIELD	
WALK IN	
US MAIL	
FED EX	
OTHER _____	

LAB INFORMATION

24. Name and Signature	25. Date:	26. Time:
24a. Analyzed By: [illegible]	9/21/01	[illegible]
24b. Analyzed By:		
24c. QC By:		

27. Comments (Lab)
3 Plm < 6 Hrs.

NY-13 (3/99)

NYC-WTC_000124047

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ATC ASSOCIATES INC - NEW YORK BULK ASBESTOS ANALYSIS SHEET

104 East 25th Street, 10th Floor · New York, NY 10010 · Phone (212) 353 - 8280, FAX (212) 353 - 3599 or 8306

NVLAP 101187
ELAP 10879
Microscope OLYP BH-2

Client / Project RELATED / 225 RECTOR PLACE Project No. _____

Analysis Date 9/21/01 Analyst E. A. CUARICAN Batch No. 19511

1 Field No. 1	Stereoscopic Exam	PLM Optical Properties	Asbestos Results PLM %	Other Fibrous %	Non Fibrous %	Gravimetric (NOB) Results %
Gravimetric (NOB) Required ☐ Recommended ☐ Gravimetric PREP ☐ Gravimetric (NOB) PLM ☐ Gravimetric (NOB) TEM ☐ POINT COUNT RESULTS ON THE BACK	Color Tan Texture F Homogenity V # of Layers ____ Asbestos ☒ ☐ Color of Layer ____ Detected Yes No Comments:	Morphology W Extinction P RI ∥ 1.549 RI ⊥ 1.516 DS Color B/M Color,Pleo N Biref L Sign +	0.25 Chrysotile ____ Amosite ____ Other	20 Cellulose 40 Fiberglass ____ Other	35.75 Mineral Filler ____ Organic Binders ____ Vermiculite ____ Other	____ Organic ____ Residue ____ Carbonate ____ Other ____ Asbestos
	Method: ☒ ELAP + EPA¹ ☐ ELAP ☐ EPA¹ ☐ OTHER ☐ SCANNING OPTION: ELAP (P.C.) & EPA¹ First 4 preps. Asbestos = 0			O.C. ☐		

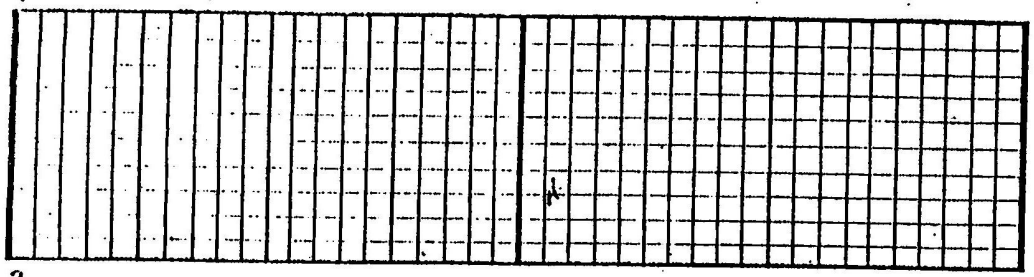
2 Field No. 2	Stereoscopic Exam	PLM Optical Properties	Asbestos Results PLM %	Other Fibrous %	Non Fibrous %	Gravimetric (NOB) Results %
Gravimetric (NOB) Required ☐ Recommended ☐ Gravimetric PREP ☐ Gravimetric (NOB) PLM ☐ Gravimetric (NOB) TEM ☐ POINT COUNT RESULTS ON THE BACK	Color Tan Texture F Homogenity V # of Layers ____ Asbestos ☒ ☐ Color of Layer ____ Detected Yes No Comments:	Morphology W Extinction P RI ∥ 1.549 RI ⊥ 1.516 DS Color B/M Color,Pleo N Biref L Sign +	0.25 Chrysotile ____ Amosite ____ Other	19.75 Cellulose 42 Fiberglass ____ Other	38 Mineral Filler ____ Organic Binders ____ Vermiculite ____ Other	____ Organic ____ Residue ____ Carbonate ____ Other ____ Asbestos
	Method: ☒ ELAP + EPA¹ ☐ ELAP ☐ EPA¹ ☐ OTHER ☐ SCANNING OPTION: ELAP (P.C.) & EPA¹ First 4 preps. Asbestos = 0			O.C. ☐		

3 Field No. 3	Stereoscopic Exam	PLM Optical Properties	Asbestos Results PLM %	Other Fibrous %	Non Fibrous %	Gravimetric (NOB) Results %
Gravimetric (NOB) Required ☐ Recommended ☒ Gravimetric PREP ☐ Gravimetric (NOB) PLM ☐ Gravimetric (NOB) TEM ☐ POINT COUNT RESULTS ON THE BACK	Color Tan Texture F Homogenity V # of Layers ____ Asbestos ☒ ☐ Color of Layer ____ Detected Yes No Comments:	Morphology W / SF Extinction P / P RI ∥ 1.549 / 1.550 RI ⊥ 1.516 / 1.517 DS Color B/M / B/Y Color,Pleo N / N Biref L / M Sign + / +	0.5 Chrysotile 0.25 Amosite ____ Other	21.25 Cellulose 40 Fiberglass ____ Other	38 Mineral Filler ____ Organic Binders ____ Vermiculite ____ Other	____ Organic ____ Residue ____ Carbonate ____ Other ____ Asbestos
	Method: ☒ ELAP + EPA¹ ☐ ELAP ☐ EPA¹ ☐ OTHER ☐ SCANNING OPTION: ELAP (P.C.) & EPA¹ First 4 preps. Asbestos = 0			O.C. ☒ 0.5 % chrys EPA 0.25 % amos		

4 Field No.	Stereoscopic Exam	PLM Optical Properties	Asbestos Results PLM %	Other Fibrous %	Non Fibrous %	Gravimetric (NOB) Results %
Gravimetric (NOB) Required ☐ Recommended ☐ Gravimetric PREP ☐ Gravimetric (NOB) PLM ☐ Gravimetric (NOB) TEM ☐ POINT COUNT RESULTS ON THE BACK	Color ____ Texture ____ Homogenity ____ # of Layers ____ Asbestos ☐ ☐ Color of Layer ____ Detected Yes No Comments:	Morphology ____ Extinction ____ RI ∥ ____ RI ⊥ ____ DS Color ____ Color,Pleo ____ Biref ____ Sign ____	____ Chrysotile ____ Amosite ____ Other	____ Cellulose ____ Fiberglass ____ Other	____ Mineral Filler ____ Organic Binders ____ Vermiculite ____ Other	____ Organic ____ Residue ____ Carbonate ____ Other ____ Asbestos
	Method: ☐ ELAP + EPA¹ ☐ ELAP ☐ EPA¹ ☐ OTHER ☐ SCANNING OPTION: ELAP (P.C.) & EPA¹ First 4 preps. Asbestos = 0			O.C. ☐		

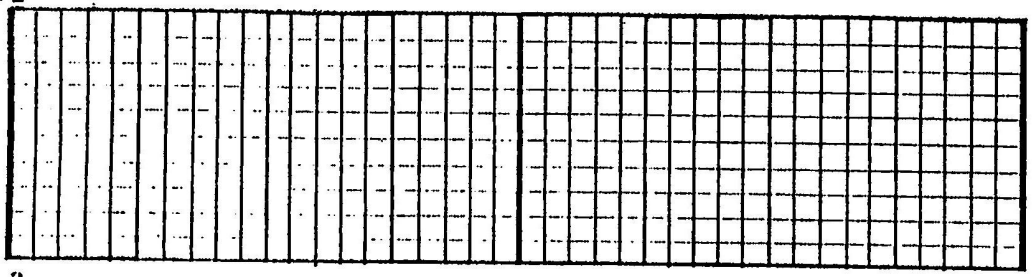
POINT COUNT

1



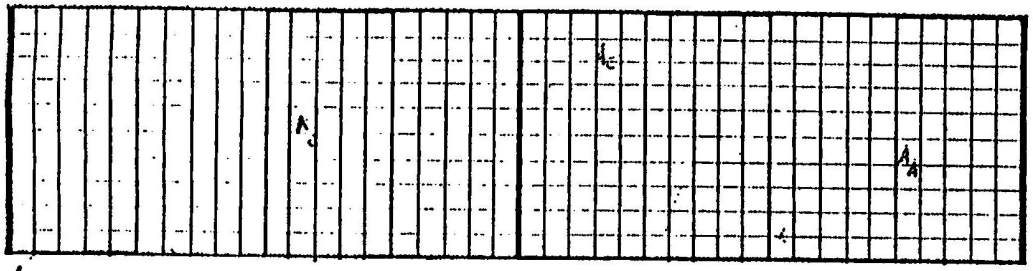
Asbestos Points = 1
Non-Asbestos Points = 399
TOTAL POINTS = 400
Asbestos % = 0.25

2



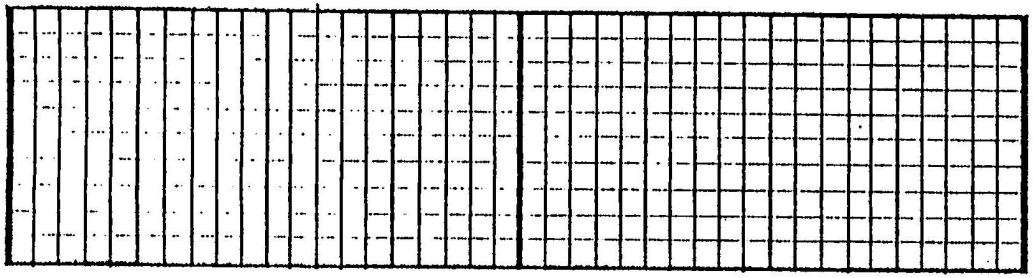
Asbestos Points = 1
Non-Asbestos Points = 399
TOTAL POINTS = 400
Asbestos % = 0.25

3



2 Ch, 1 I.L.
Asbestos Points =
Non-Asbestos Points = 397
TOTAL POINTS = 400
Asbestos % =
Ch - 0.5
I.L. - 0.25

4



Asbestos Points =
Non-Asbestos Points =
TOTAL POINTS =
Asbestos % =

Legend: A = ASBESTOS

% ASBESTOS = (AP x 100%) / TP Where : AP = Total # of Specific Asbestos Points; TP = Total # of Non empty Points

RI = REFRACTIVE INDEX
L = LOW M = MEDIUM H = HIGH
BIREF = BIREFRINGENCE

P = PARALLEL O = OBLIQUE
G = GRANULAR
CL = CLEAR B = BLUE

NF = NON FRIABLE
F = FRIABLE
P.C. = Point Count

EPA[1] : For Friable Materials we use Method 600 / M4 - 82 - 020 and 600 / R - 93/116
For Non Friable + Layer Materials we use Method 600 / R - 93/116

Note: EPA Methods as per items 198.1 and 198.4

NYC 9/11 Public Portal Document

NYC-WTC_000124048

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Tribeca Park, Parc Place, Tribeca Tower
The Related Companies
203 East 86th Street
NY, NY 10028

Manager: Nancy McDonald
400 Chambers Street
NY, NY 10282
(212) 784- 9600

Ann Croke
225 Rector Place
NY, NY 10280
(212) 945- 0300

Peter Hoyle- Director of Engineering
203 East 86th Street
NY, NY 10028
Phone: 212-521-6404
Fax: 212-593-5793

Environmental Sampling:

ATC Associates was contracted to interview building maintenance personnel, perform visual assessments of the ventilation and air-conditioning systems, and perform visual inspections of residential units and common areas. ATC Associates also provided oversight of the cleanup of dust accumulations within various residential units.

ATC Associates conducted over 200 air and bulk samples.
Air sampling: 2 samples in common areas and 3 apartment samples per floor.
Dust sampling also conducted.

Two asbestos abatement companies were used:
Hazardous Elimination Corporation and **Pinnacle Environment Company.**
Common areas and individual apartments (requested by tenants or those identified as having dust films/accumulation) were cleaned. Each wall mounted HVAC unit was removed, vacuumed, and cleaned. All apartment surfaces (i.e., walls, moldings, doors, appliances, etc) were wet cleaned and/or vacuumed.

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Parc Place (225 Rector Place): Tested 9/23-28/01, 10/31, 11/15-16, 11/28/01

1. **One hundred twenty five ambient air samples for asbestos** were collected from 9/23-28/01and analyzed by PCM. All areas samples recorded fiber levels less than or equal to 0.01f/cc.

2. **Eighty-two ambient air samples for asbestos** were collected 10/31, 11/15-16, 11/28/01and analyzed by TEM. The results indicated that the living areas achieved the acceptance criteria below <70 structures per mm2.

3. **One of the samples taken from the roof over the garage and pool area was above standards for asbestos by PLM.** Asbestos abatement was conducted 10/05/01 by Hazardous Elimination Corp. and repeat testing was negative.

4. **Five ambient air samples** were collected for **fiberglass** on 11/16, 11/28/01 and analyzed by PCM. All areas samples recorded fiber levels less than or equal to 0.01f/cc.

Tribeca Tower (105 Duane Street): Awaiting official report. Per Mr. Hoyle:

ATC Associates found that no samples were over the asbestos standard. A mechanical hygienist was hired to HEPA vacuum and clean ducts in the basement. An Inspector Slobek (?) was also present during cleanup activities.

Residents hired their own consultant- he used the microvac method and found samples positive for asbestos. Non-profit lawyer also hired by residents. Currently involved in a lawsuit.

Tribeca Park (400 Chambers Street): Awaiting official report. Per Mr. Hoyle:
ATC Associates conducted over 200 air and bulk samples.
Air sampling: 3 samples in common areas/hallways and 2 apartment samples.
Dust sampling also conducted.

Clean-up Activities by Building Manager:
Two Asbestos Abatement companies were used for cleanup.

1. All cleanup activities were at cost to the landlords.
2. Common areas were HEPA vacuumed.
3. The outsides of buildings were HEPA vacuumed and washed down with water (including apartment balconies).
4. The grounds were vacuumed and all bulk material was removed.

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NYC 9/11 Public Portal Document

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

January 25, 2002

Mr. Andrew Goodman, MD, MPH
Associate Commissioner
The City of New York Department of Health
Community Health Works
40 Worth Street, 16th Floor
New York, New York 10013

Re: Parc Place Apts.
225 Rector Place
NY, NY

Dear Mr. Goodman:

As requested, enclosed you will find for your use the summary report and test results from ATC Associates on the approach to the cleaning of Parc Place following the events of September 11.

ATC is completing similar reports for Tribeca Park, 400 Chambers Street and Tribeca Tower, 105 Duane Street. We will send those to you early next week.

Should you require any further information please feel free to contact me at (212) 521-6404.

Very truly yours,

Peter S. Hoyle
Director of Engineering

Xc: Jeff Brodsky
Tami Caldwell-Kimble
Lisa Bergenty

NYC 9/11 Public Portal Document

PARC PLACE
225 RECTOR PLACE

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

JANUARY 18, 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

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General

ATC Associates, Inc. (ATC), was retained by the Related Management Company, L.P. in response to air quality concerns at Parc Place following the collapse of the World Trade Center buildings on September 11, 2001. Addressing these concerns ATC conducted interviews with building maintenance personnel, performed a visual inspection of the ventilating, and air-conditioning systems including air intakes for cleanliness and a walk-through visual inspection of residential units and common areas. Representative ambient air samples were collected for fiber analysis initially via Phase Contrast Microscopy (PCM) and subsequently via Transmission Electron Microscopy (TEM). Sampling of representative accumulated dust and debris was performed in accordance with the City of New York Department of Environmental Protection's September 14 and 26, 2001 memorandums regarding the clean-up of debris inside buildings for analysis via Polarized Light Microscopy (PLM) for asbestos content (Attachment 5). Additionally, ATC provided oversight of the clean up of dust accumulations within various residential units.

Interviews with Building Maintenance Personnel and Visual Inspection

Based upon ATC's discussion with the resident manager and our independent observations, ATC concludes that; building maintenance personnel successfully shut down the house air conditioning system minimizing dust intrusion into the HVAC systems and that at the time of our inspection the house-supplied air conditioning was off-line and free of dust accumulations. Accessible residential units were visually inspected for dust and debris accumulations. This inspection subjectively categorized the dust accumulation into five depositional levels. The categories are; No visible dust, Minor Film, Film, Minor Accumulation and Accumulation. The inspection identified 71 units with no visible dust, 113 units with Minor Films, 34 units with a Film, 27 units with Minor Accumulations, 47 units with Accumulation and 12 inaccessible units. Typical Film condition photo 1, typical Accumulation photo 2.



Photo 1 - Typical Film Condition

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NYC-WTC_000124053

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Photo 2 - Typical Accumulation Condition

Common Area & Apartment Cleaning Procedures and Ambient Air Sampling

Common areas, individual apartments specifically requested by the occupant or those apartments identified as exhibiting, a Minor Film, Film, Minor Accumulation or Accumulations were cleaned between September 23 – 28, 2000 utilizing licensed asbestos abatement contractors (Pinnacle Environmental Corp. and Hazardous Elimination Corp.) utilizing the procedures contained in the City of New York Department of Environmental Protection's September 14 and 26, 2001 memorandums regarding the clean-up of debris inside buildings. The intent of this cleaning was to completely and thoroughly clean all accumulated dust and/or debris from apartment surfaces utilizing wet cleaning methods and/or HEPA filter equipped vacuums allowing families to return to their respective units as quickly as possible. All cleaning activities were performed as follows.

1. All workers involved in the cleaning was required to wear disposable coveralls (tyveck or equal) and at a minimum ½ face negative pressure respirators with HEPA cartridges.
2. Each wall mounted inceptor HVAC unit was removed and thoroughly cleaned. The unit was thoroughly vacuumed including diffuser, wall sleeve, apartment grate, housing and accessible coils. The filter was removed and sealed in a 6 mil unlabeled bag for subsequent cleaning by building personnel. The interior of the filter housing and surrounding attachment points were thoroughly vacuumed and the removed filter was replaced with a new filter prior to reinstallation of the unit.
3. All apartment surfaces including walls, moldings/trim, doors, installed appliances, window components, installed fixtures, and appurtenances were thoroughly wet cleaned and/or vacuumed.

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4. The work sequence commenced cleaning in the furthest corner working out the area to be cleaned.

Representative ambient air sampling was performed between September 23 – 28, 2000 during and at the conclusion of cleaning activities. Attachment 1 contains the Air Monitoring Data and Chain of Custody Forms (30 pages) for the ambient air samples collected by ATC Associates and analyzed by phase contrast microscopy (PCM). Samples were collected from two hallway locations and three apartments on each floor of 225 Rector Place. Apartments sampled are identified in the following table. 5 Samples / floor

Floor	Apartments	Floor	Apartments
Penthouse	PII	11	PII
23		10	
22		9	
21		8	
20		7	
19		6	
18		5	
17		4	
16		3	
15		2	
14		1	
12		Basement	Garage

All areas sampled recorded fiber levels less than or equal to 0.01 f/cc. However, particulate matter raised by HEPA vacuuming activities obscured the initial analysis of the samples collected from the north side of the 15th and 2nd floors and apartment PII. On 9-24-01 following HEPA cleaning the 15th and 2nd floor hallways were re-tested with all six samples recording levels less than 0.01 f/cc. Following HEPA vacuuming of apartment PII, the apartment was re-tested recording a fiber level less than 0.01 f/cc, consistent with the other four samples collected from the seventh floor and does not present an issue at this time.

In conclusion, based upon the analytical results 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 during cleaning activites meet an acceptable criterion for re-occupancy.

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Ambient Air Sampling – Transmission Electron Microscopy

On October 31, November 15, 16 & 28, 2001, ATC collected one ambient air sample in each of the apartments as requested by the resident and various common areas to ascertain the presence or absence of airborne asbestos. The 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.

October 31, 2001

Floor	Apartments	Floor	Apartments
Penthouse		11	
23	PII	10	PII Hallway
22		9	PII
21		8	
20	PII Hallway	7	
19		6	
18		5	PII Hallway
17		4	PII
16		3	
15	Hallway	2	PII
14	PII	1	PII Lobby
12			Outdoors

~22+

November 15 & 16, 2001

Floor	Apartments	Floor	Apartments
Penthouse	PII	11	PII
23		10	
22		9	
21		8	
20		7	
19		6	
18		5	
17		4	
16		3	
15		2	
14		1	
12			

~36

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November 28, 2001

Floor	Apartments	Floor	Apartments
Penthouse	PII	11	PII
23		10	PII Hallway
22		9	
21	PII	8	
20	PII Hallway	7	PII
19	PII	6	
18		5	PII Hallway
17		4	PII
16	PII	3	
15	Hallway	2	
14	PII	1	PII Lobby
12		Basement	

~24

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/mm^2) 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 project.

Based upon analytical sample results for all samples recording levels 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.

Pool Roof Asbestos Abatement

Debris from the Trade Center collapse and deposited on the pool roof was determined to be asbestos containing material via PLM testing (Attachment 3). . The roof area was verified by ATC as visibly clean (free of any visible dust and debris) prior to final air sampling collection following abatement activities on October 5, 2001. All asbestos removal and clean-up activities were performed by Hazardous Elimination Corp a NYS licensed asbestos abatement contractor.

The samples were analyzed via Phase Contrast Microscopy (NIOSH 7400 Method) by ATC Environmental Laboratories, Inc. (ELAP #10879) and results were immediately reported to the on-site monitor when analysis was completed. These results indicated that the work areas had achieved the required clearance standard of 0.01 fibers per cubic centimeter, which is the NYC Department of Environmental Protection re-occupancy criteria following an abatement activity. After these results were reported to the job-site, the contractor demobilized equipment and a final clean up of the area was performed. Please see the attached air monitoring data sheets (Attachment 3).

Ambient Air Sampling – Fiberglass

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On November 16 & 28, 2001, ATC collected five ambient air sample from various common areas to ascertain the presence or absence of airborne fiberglss (Attachment 4). The samples were analyzed via Phase Contrast Microscopy (NIOSH 7400 Method) by ATC Environmental Laboratories, Inc. (ELAP #10879).

In the absence of a specific ambient air standard for fiberglass ATC has selected as a reference standard the Department of Environmental Protection re-occupancy criteria for asbestos. All areas sampled recorded fiber levels less than or equal to 0.01 f/cc.

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ATTACHMENT 1
AIR SAMPLING DATA & CHAIN OF CUSTODY FORM,

PCM AMBIENT AIR SAMPLES

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NYC-WTC_000124059

NYC 9/11 Public Portal Document

ATC ASSOCIATES INC.

Project Memorandum

Subject: 225 Rector Place

Re: Ambient Air Sampling

To: Peter Hoyle
Related Management

From: Fred Burkhardt

Date: October 23, 2001

Attached please find the Air Monitoring Data and Chain of Custody Forms (30 pages) for the ambient air samples collected by ATC Associates and analyzed by phase contrast microscopy (PCM). Samples were collected from two hallway locations and three apartments on each floor of 225 Rector Place. Apartments sampled are identified in the following table.

Floor	Apartments	Floor	Apartments
Penthouse	PII	11	PII
23		10	
22		9	
21		8	
20		7	
19		6	
18		5	
17		4	
16		3	
15		2	
14		1	
12		Basement	Garage

All areas sampled recorded fiber levels less than or equal to 0.01 f/cc. However, particulate matter raised by HEPA vacuuming activities obscured the initial analysis of the samples collected from the north side of the 15th and 2nd floors and apartment 7K. On 9-24-01 following HEPA cleaning the 15th and 2nd floor hallways were re-tested with all six samples recording levels less than 0.01 f/cc. Following HEPA vacuuming of apartment 7K, the apartment was re-tested recording a fiber level less than 0.01 f/cc, consistent with the other four samples collected from the seventh floor and does not present an issue at this time.

In conclusion, based upon the analytical results 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. If you have any questions or require additional explaination of the information presented please do not hesitate to call me at 212-353-8280.

Thank You.

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AIR MONITORING DATA AND CHAIN OF CUSTODY FORM

ATC ASSOCIATES INC.

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

PROJECT INFORMATION

Client:	2. Project Name: Ambient Sample	3. Project #:	4. Project Monitor: Michael Anderson	4c. Rotameter Number: RW-01
Date: 7-28-01	2a. Project Address: 225 Rector Pl	3a. Task #:	4a. Air Sampler:	

6. Abatement Location: 18E 16S-H 15-A APT 10-A-05K 2F

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

DAILY AIR SAMPLE RECORD

Sample I.D. Number	11. Pump Number	12. Sample Location 12a. IWA	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	14b. Avg	15. Total Air Vol. (liters)	16. # Fibers/Fields Minus Blank	17. Fiber Conc. F/CC
01				Field Blank								0/100	
02				Field Blank								0/100	
16-03				Center of APT	11:00	2:00	180	7	7	7	1260	8/100	<0.004
8-04				Center APT	11:03	2:04	181	7	7	7	1267	3/100	<0.004
15-05				Center APT	11:05	2:06	181	7	7	7	1267	10/100	0.004
10-06				Center APT	11:18	2:19	181	7	7	7	1267	2/100	<0.004
0-07				Center APT	11:19	2:20	181	7	7	7	1267	5/100	<0.004
16-08				Center APT	12:22	2:23	181	7	7	7	1267	1/100	<0.004

PII

CHAIN OF CUSTODY

	18. Relinquished By:	19. Received By:	20. Date:	21. Time:
I				
II		QA	9/19	7pm

6. ATC Project Manager: Fred B

27. Result To: FAX / 212 945-3768
Beeper/Phone #'s: ____

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

22. Lab Name:	23. Date:	24. Time:
a. Analyzed By: A. Elliott	09.29.01	11am
b. QC By:		
c. Lab Batch #: 97187		

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

Analysis Methodology
PCM - NIOSH 7400A
TEM - AHERA

28. Comments:

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

NY-1 (1/01)

NYC-WTC_000124061

NYC-WTC_000124062

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ATC ASSOCIATES INC.

AIR MONITORING DATA AND CHAIN OF CUSTODY FORM

Page _____ of _____

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:
Rentokil Hoover	Ambient Sampling			FW-01
	2a. Project Address	3a. Task #	4a. Air Sampler:	

5. Date:	6. Abatement Location:	7. ☒ PCM (0.8 micron MCE)	8. ☐ TEM (0.45 micron MCE)	9. Type:
09-28-01		Cassette/Filter Manufacture _____ Lot # _____	Cassette/Filter Manufacture _____ Lot # _____	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 12a. IWA	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	14b. Avg	15. Total Air Vol. (liters)	16. # Fibers/Fields Minus Blank	17. Fiber Conc. F/CC
				Field Blank									
				Field Blank									
2-09				Center APT	11:25	2:26	181	7	7	7	1267	3/100	<0.004
5-10				Center APT	11:28	2:29	181	7	7	7	1267	14/100	0.005
7-11				Center APT	11:30	1:30	120	15	15	15	1800	1/100	<0.003

PII

CHAIN OF CUSTODY

18. Relinquished By:	19. Received By:	20. Date:	21. Time:
I			
II			
III	QA	9/29	7am

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

22. Lab Name:	23. Date:	24. Time:
a. Analyzed By: A. Elkeat	09.29.01	11 am
b. QC By:		
c. Lab Batch #: 97187		

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

Analysis Methodology
PCM - NIOSH 7400A
TEM - AHERA

26. ATC Project Manager: Fred B.

27. Result To: Pg #1

Beeper/Phone #'s _____

28. Comments:

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

NY-1 (1/01)

NYC-WTC_0001240 63

NYC 9/11 Public Portal Document

ATC ASSOCIATES INC.

AIR MONITORING DATA AND CHAIN OF CUSTODY FORM

Page _____ of _____

TURNAROUND TIME

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

ROJECT INFORMATION

1. Client:	2. Project Name	3. Project #	4. Project Monitor:	4c. Rotameter Number:
Lehrer Mgmt	Ambient Sampl		Michael	FW-01
	2a. Project Address: 285 Rector Pl	3a. Task #	4a. Air Sampler:	

5. Date:	6. Abatement Location:	7. ☒ PCM (0.8 micron MCE)	8. ☐ TEM (0.45 micron MCE)	9. Type:
9-27-01	APT 18D	Cassette/Filter Manufacture _____ Lot # _____	Cassette/Filter Manufacture _____ Lot # _____	a. ☐ Background b. ☐ Pre-Abate c. ☐ Abatement d. ☐ Post-Abate e. ☐ OSHA f. ☐ Environmental ☒ Ambient h. ☐ Other

AILY AIR SAMPLE RECORD

10. Sample I.D. Number	11. Pump Number	12. Sample Location 12a. IWA	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	14b. Avg	15. Total Air Vol. (liters)	16. # Fibers/Fields Minus Blank	17. Fiber Conc. F/CC
01				Field Blank								0/100	
02				Field Blank								0/100	
803				Center of APT PII	18:30	21:30	180	7	7	7	1260	9/100	4.004

HAIN OF CUSTODY

18. Relinquished By:	19. Received By:	20. Date:	21. Time:
Michael	Bhoy	09/27/01	2235
I			
II			

26. ATC Project Manager:	27. Result To: FAX 1212-945-3768 Beeper/Phone #'s _____
Fabel	

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

22. Lab Name:	23. Date:	24. Time:
a. Analyzed By:	9/28/01	0600
b. QC By:		
c. Lab Batch #: 97165		

28. Comments:

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)

NYC-WTC_000124064

NYC 9/11 Public Portal Document

VATC ASSOCIATES INC.

AIR MONITORING DATA AND CHAIN OF CUSTODY FORM

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

ROJECT INFORMATION

1. Client:	2. Project Name	3. Project #	4. Project Monitor:	4c. Rotameter Number:
Lee Ielpi Memorial	2a. Project Address: 225 Rector PL	3a. Task #	4a. Air Sampler:	FW-01

5. Date:	6. Abatement Location:	7. ☒ PCM (0.8 micron MCE)	8. ☐ TEM (0.45 micron MCE)	9. Type:
9-27-01	APTS 14F 14J 14P 12H 12B	Cassette/Filter Manufacture _____ Lot # _____	Cassette/Filter Manufacture _____ Lot # _____	a. ☐ Background b. ☐ Pre-Abate c. ☐ Abatement d. ☐ Post-Abate e. ☐ OSHA f. ☐ Environmental g. ☒ Ambient h. ☐ Other

AILY AIR SAMPLE RECORD

10. Sample I.D. Number	11. Pump Number	12. Sample Location 12a. IWA	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	14b. Avg	15. Total Air Vol. (liters)	16. # Fibers/Fields Minus Blank	17. Fiber Conc. F/CC
01				Field Blank								9/100	
02				Field Blank								0/100	
4-03				Center APT	09:00	12:01	181	7	7	7	1267	4/100	<.004
4-04				Center APT	09:02	12:03	181	7	7	7	1267	7/100	<.004
4-05				Center APT	09:04	12:05	181	7	7	7	1267	3/100	<.004
12-06				Center APT	09:06	12:07	181	7	7	7	1267	3/100	<.004
12-07				Center APT	09:09	12:11	182	7	7	7	1274	4/100	<.004

PII

HAIN OF CUSTODY

18. Relinquished By:	19. Received By:	20. Date:	21. Time:
		09/27/01	2235
I			
II			

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

22. Lab Name:	23. Date:	24. Time:
a. Analyzed By:	9/28/01	0600
b. QC By:		
c. Lab Batch #: 97164		

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

Analysis Methodology
PCM - NIOSH 7400A
TEM - AHERA

26. ATC Project Manager: Fred B

27. Result To: ~~FAX~~ 1-212-945-3765
Beeper/Phone #'s _____

28. Comments:

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

NY-1 (1/01)

NYC-WTC_000124065

NYC 9/11 Public Portal Document

ATC ASSOCIATES INC.

AIR MONITORING DATA AND CHAIN OF CUSTODY FORM

Page _____ of _____

TURNAROUND TIME

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

PROJECT INFORMATION

Client: Federal Express	2. Project Name: APT Sampling	3. Project #:	4. Project Monitor:	4c. Rotameter Number: FW-01
	2a. Project Address: 225 Rector Place	3a. Task #:	4a. Air Sampler:	

5. Date:	6. Abatement Location:	7. ☒ PCM (0.8 micron MCE)	8. ☐ TEM (0.45 micron MCE)	9. Type:
9-26-01		Cassette/Filter Manufacture _____ Lot # _____	Cassette/Filter Manufacture _____ Lot # _____	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: 12a. IWA	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	14b. Avg	15. Total Air Vol. (liters)	16. # Fibers/Fields Minus Blank	17. Fiber Conc. F/CC
01				Field Blank								0/100	
02				Field Blank								0/100	
1-03				Center APT -	09:00	12:00	180	7	7	7	1260	4/100	<0.004
1-04				Center APT -	09:02	12:03	181	7	7	7	1267	1/100	<0.004
3-05				Center APT -	09:06	12:07	181	7	7	7	1267	2/100	<0.004
6-06				Center APT -	09:10	12:11	181	7	7	7	1267	3/100	<0.004
7-07				Center APT -	09:12	12:13	181	7	7	7	1267	3/100	<0.004
7-08				Center APT -	09:15	12:16	181	7	7	7	1267	2/100	<0.004

PII

CHAIN OF CUSTODY

	18. Relinquished By:	19. Received By:	20. Date:	21. Time:
I			09/26/01	12:40
II				

16. ATC Project Manager:

27. Result To: FAX 1-212-945-3768

Beeper/Phone #'s _____

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

22. Lab Name:	23. Date:	24. Time:
a. Analyzed By: R. Drouidina	9.27.01	01.30
b. QC By:		
c. Lab Batch #: 97139		

25. Microscope Make/Serial #: Olympus 1628
☐ Nikon Labophot 238913
☐ Nikon Labophot 238917
☐ Nikon Labophot 239079

Analysis Methodology
PCM - NIOSH 7400A
TEM - AHERA

28. Comments:

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

NY-1 (1/01)

NYC-WTC_000124066

NYC 9/11 Public Portal Document

VATC ASSOCIATES INC.

AIR MONITORING DATA AND CHAIN OF CUSTODY FORM

Page ____ of ____

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:
Lead Safe Mg Mgmt	2a. Project Address: APT Sampling	3a. Task #	4a. Air Sampler:	FW-01

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
7-28				

DAILY AIR SAMPLE RECORD

10. Sample I.D. Number	11. Pump Number	12. Sample Location 12a. IWA	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	14b. Avg	15. Total Air Vol. (liters)	16. # Fibers/Fields Minus Blank	17. Fiber Conc. F/CC
				Field Blank									
				Field Blank									
7-09				Center APT	09:17	12:18	181	7	7	7	1267	2/100	<0.004
8-10				Center APT -	09:20	12:21	181	7	7	7	1267	5/100	<0.004
8-10				Center APT -	09:22	12:22	180	7	7	7	1260	1/100	<0.004
9-12				Center APT -	09:24	12:25	181	7	7	7	1267	4/100	<0.004
9-13				Center APT -	09:26	12:27	181	7	7	7	1267	4/100	<0.004
9-14				Center APT ✓	09:28	12:29	181	7	7	7	1267	2/100	<0.004

PII

CHAIN OF CUSTODY

	18. Relinquished By:	19. Received By:	20. Date:	21. Time:
I			09/26/01	21 40
II				

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

22. Lab Name:	23. Date:	24. Time:
a. Analyzed By:		
b. QC By:		
c. Lab Batch #: 97139		

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

Analysis Methodology
PCM - NIOSH 7400A
TEM - AHERA

26. ATC Project Manager: Fred. B

27. Result To: By #1
Beeper/Phone #'s

28. Comments:

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

NY-1 (1/01)

NYC-WTC_000124067

NYC 9/11 Public Portal Document

ATC ASSOCIATES INC.

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: APT Sampling	3. Project #:	4. Project Monitor:	4c. Rotameter Number:
Related Urgent	2a. Project Address: 225 Rector Pl	3a. Task #:	4a. Air Sampler:	TW-01

5. Date:	6. Abatement Location:	7. ☒ PCM (0.8 micron MCE)	8. ☐ TEM (0.45 micron MCE)	9. Type:
9-26-01	Apts 5P+5K	Cassette/Filter Manufacture: Lot #:	Cassette/Filter Manufacture: Lot #	a. ☐ Background b. ☐ Pre-Abate c. ☐ Abatement d. ☐ Post-Abate e. ☐ OSHA f. ☐ Environmental g. ☒ Ambient h. ☐ Other

DAILY AIR SAMPLE RECORD

Sample I.D. Number	11. Pump Number	12. Sample Location: 12a. IWA	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	14b. Avg	15. Total Air Vol. (liters)	16. # Fibers/Fields Minus Blank	17. Fiber Conc. F/CC
01				Field Blank								0/100	
02				Field Blank								0/100	
S-03				Center Apt	10:00	13:01	181	7	7	7	1267	3/100	<0.004
S-01				Center Apt	10:03	13:04	181	7	7	7	1267	10/100	0.004

PII

CHAIN OF CUSTODY

	18. Relinquished By:	19. Received By:	20. Date:	21. Time:
I			09/26/01	2140
II				

26. ATC Project Manager:

27. Results to: FAX 1-212-945-3768
Beeper/Phone #'s:

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

22. Lab Name:	23. Date:	24. Time:
a. Analyzed By:	09/26/01	2235
b. QC By:		
c. Lab Batch #: 97137		

28. Comments:

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)

NYC-WTC_000124068

NYC 9/11 Public Portal Document

VATC ASSOCIATES INC.

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

Client:	2. Project Name: APT Sample	3. Project #:	4. Project Monitor:	4c. Rotameter Number:
Realtech Ngama	2a. Project Address: 225 Rector PL	3a. Task #	4a. Air Sampler:	1 w - 01

Date:	5. Abatement Location:	7. ☒ PCM (0.8 micron MCE)	8. ☐ TEM (0.45 micron MCE)	9. Type:
9-26-01	APTS Bt 2322 20 1917	Cassette/Filter Manufacture: ____ Lot #: ____	Cassette/Filter Manufacture: ____ Lot #: ____	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 12a. IWA	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	14b. Avg	15. Total Air Vol. (liters)	16. # Fibers/Fields Minus Blank	17. Fiber Conc. F/CC
01				Field Blank								0/100	
02				Field Blank								0/100	
7 03				Center APT	MA PB00	16:00	180	7	7	7	1260	3/100	<0.004
7 04				Center APT	MA PB02	16:03	181	7	7	7	1267	3/100	<0.004
7 05				Center APT	MA PB:03	16:04	181	7	7	7	1267	1/100	<0.004
9-06				Center APT	MA PB:06	16:07	181	7	7	7	1267	4/100	<0.004
9-07				Center APT	MA PB:08	16:09	181	7	7	7	1267	5/100	<0.004
9-08				Center APT	MA PB:10	16:11	181	7	7	7	1267	2/100	<0.004

PII

CHAIN OF CUSTODY

	18. Relinquished By:	19. Received By:	20. Date:	21. Time:
	Michel Ngama	Rtho	09/26/01	2140
I				
II				

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

22. Lab Name:	23. Date:	24. Time:
a. Analyzed By: R. Droudina	9.27.01	0.30
b. QC By:		
c. Lab Batch #: 97138		

25. Microscope Make/Serial #: Olympus 1025
☐ Nikon Labophot 238913
☐ Nikon Labophot 238917
☐ Nikon Labophot 239079

Analysis Methodology
PCM - NIOSH 7400A
TEM - AHERA

26. ATC Project Manager:	27. Result To: FAX 1-212-945-3768 Beeper/Phone #'s: ____	28. Comments:
Fred B		

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

NY-1 (1/01)

NYC-WTC_000124069

NYC 9/11 Public Portal Document

VATC ASSOCIATES INC.

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: Apt Sampling	3. Project #:	4. Project Monitor:	4c. Rotameter Number:
Lentol Nguyen	2a. Project Address: 225 Rector	3a. Task #	4a. Air Sampler:	FW-01

Date:	6. Abatement Location:	7. ☒ PCM (0.8 micron MCE)	8. ☐ TEM (0.45 micron MCE)	9. Type:
9-26-01	Apt 23 22 20 19 17	Cassette/Filter Manufacture ____ Lot # ____	Cassette/Filter Manufacture ____ Lot # ____	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 12a. IWA	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	14b. Avg	15. Total Air Vol. (liters)	16. # Fibers/Fields Minus Blank	17. Fiber Conc. F/CC
				Field Blank									
				Field Blank									
20-09				Center Apt	13:15	16:16	181	7	7	7	1267	4/100	<0.004
20-10				Center Apt	13:16	16:17	181	7	7	7	1267	4/100	<0.004
20-11				Center Apt	13:18	16:19	181	7	7	7	1267	2/100	<0.004
22-12				Center Apt	13:20	16:21	181	7	7	7	1267	3/100	<0.004
22-13				Center Apt	13:21	16:22	181	7	7	7	1267	1/100	<0.004
23-14				Center Apt	13:23	16:24	181	7	7	7	1267	5/100	<0.004

PII

CHAIN OF CUSTODY

18. Relinquished By:	19. Received By:	20. Date:	21. Time:
	Rdlezp	09/26/01	2140
I			
II			

16. ATC Project Manager: Fred B

27. Result To: D #1

Beeper/Phone #'s ____

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

22. Lab Name:	23. Date:	24. Time:
a. Analyzed By: R. Dowdina	9.27.01	00.30
b. QC By:		
c. Lab Batch #: 97138		

25. Microscope Make/Serial #: Olympus 1025
☐ Nikon Labophot 238913
☐ Nikon Labophot 238917
☐ Nikon Labophot 239079

Analysis Methodology
PCM - NIOSH 7400A
TEM - AHERA

28. Comments:

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

NYC-WTC_000124070

NYC 9/11 Public Portal Document

ATC ASSOCIATES INC.

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:
Lower Manhattan	2a. Project Address	3a. Task #	4a. Air Sampler:	

5. Date:	6. Abatement Location:	7. ☒ PCM (0.8 micron MCE)	8. ☐ TEM (0.45 micron MCE)	9. Type:
9-26-01	PH 23 2220 APT 19 17	Cassette/Filter Manufacture _____ Lot # _____	Cassette/Filter Manufacture _____ Lot # _____	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 12a. IWA	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	14b. Avg	15. Total Air Vol. (liters)	16. # Fibers/Fields Minus Blank	17. Fiber Conc. F/CC
				Field Blank									
				Field Blank									
2315				Center APT	13:25	16:26	181	7	7	7	1267	2/100	<0.004
PH 16				Center APT	13:30	16:31	181	7	7	7	1267	3/100	<0.004

PII

CHAIN OF CUSTODY

	18. Relinquished By:	19. Received By:	20. Date:	21. Time:
I			09/26/01	2140
II				

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

22. Lab Name:	23. Date:	24. Time:
a. Analyzed By: R. Arvidina	9 27 01	00.30
b. QC By:		
c. Lab Batch #: 97138		

25. Microscope Make/Serial #: Olympus 1025
☐ Nikon Labophot 238913
☐ Nikon Labophot 238917
☐ Nikon Labophot 239079

Analysis Methodology
PCM - NIOSH 7400A
TEM - AHERA

26. ATC Project Manager:

27. Result To: PG #1
Beeper/Phone #'s _____

28. Comments:

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

NY-1 (1/01)

NYC-WTC_000124071

NYC 9/11 Public Portal Document

VATC ASSOCIATES INC.

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:
Rethtech	2a. Project Address 225 Rector	3a. Task #	4a. Air Sampler: Chuck Johnson	CJ 001

5. Date:	6. Abatement Location:	7. ☒ PCM (0.8 micron MCE)	8. ☐ TEM (0.45 micron MCE)	9. Type:
9-26-01	Various Area	Cassette/Filter Manufacture _____ Lot # _____	Cassette/Filter Manufacture _____ Lot # _____	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 12a. IWA	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	14b. Avg	15. Total Air Vol. (liters)	16. # Fibers/Fields Minus Blank	17. Fiber Conc. F/CC
01				Field Blank								0/100	
02				Field								0/100	
03		✓			2030	2330	180	10	10	10	1800	1.5/100	<0.003
04		✓			2031	2331	180	10	10	10	1800	2/100	<0.003
05		✓			2033	2333	180	10	10	10	1800	1/100	<0.003
06		✓			2034	2334	180	10	10	10	1800	2/100	<0.003
07		✓			2036	2336	180	10	10	10	1800	3/100	<0.003
08		✓			2037	2337	180	10	10	10	1800	1/100	<0.003

PII

CHAIN OF CUSTODY

	18. Relinquished By:	19. Received By:	20. Date:	21. Time:
I			09/27/01	10:00 am
II				

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

22. Lab Name:	23. Date:	24. Time:
a. Analyzed By: A. Ebbert	09.27.01	16:00
b. QC By:		
c. Lab Batch #: 97150		

25. Microscope Make/Serial #: Olympus 1024
☐ Nikon Labophot 238913
☐ Nikon Labophot 238917
☐ Nikon Labophot 239079

Analysis Methodology
(PCM - NIOSH 7400A)
TEM - AHERA

26. ATC Project Manager: T Burchard

27. Result To: _____
Beeper/Phone #'s _____

28. Comments:

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

NY-1 (1/01)

NYC-WTC_000124072

NYC 9/11 Public Portal Document

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

Client:	2. Project Name	3. Project #	4. Project Monitor:	4c. Rotameter Number:
Ronitz Mgm	2a. Project Address 225 Rector	3a. Task #	4a. Air Sampler: Johnson	1001

5. Date:	6. Abatement Location:	7. ☒ PCM (0.8 micron MCE)	8. ☐ TEM (0.45 micron MCE)	9. Type:
9-26-01	Various Flr	Cassette/Filter Manufacture _____ Lot # _____	Cassette/Filter Manufacture _____ Lot # _____	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 12a. IWA	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	14b. Avg	15. Total Air Vol. (liters)	16. # Fibers/Fields Minus Blank	17. Fiber Conc. F/CC
				Field Blank									
				Field									
09		✓			2039	2339	180	10	10	10	1800	1/100	<0.003
10		✓			2041	2341	180	10	10	10	1800	1/100	<0.003
11		✓			2042	2342	180	10	10	10	1800	1/100	<0.003
12		✓			2043	2343	180	10	10	10	1800	1/100	<0.003
13		✓			2045	2345	180	10	10	10	1800	2/100	<0.003
14		✓			2046	2346	180	10	10	10	1800	2/100	<0.003

PII

CHAIN OF CUSTODY

	18. Relinquished By:	19. Received By:	20. Date:	21. Time:
I				
II		KHA	09/27/01	10:30 am
III				

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

22. Lab Name:	23. Date:	24. Time:
a. Analyzed By: A. Ellis	09/27/01	16:00
b. QC By:		
c. Lab Batch #: 97150		

25. Microscope Make/Serial #: Olympus 1026
☐ Nikon Labophot 238913
☐ Nikon Labophot 238917
☐ Nikon Labophot 239079

Analysis Methodology
PCM - NIOSH 7400A
TEM - AHERA

26. ATC Project Manager: J Burke Hart

27. Result To: _____
Beeper/Phone #'s _____

28. Comments:

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

NY-1 (1/01)

NYC-WTC_000124073

NYC 9/11 Public Portal Document

VATC ASSOCIATES INC.

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

Client:	2. Project Name	3. Project #	4. Project Monitor:	4c. Rotameter Number:
RELATED MGM	2a. Project Address 225 RECTOR	3a. Task #	4a. Air Sampler:	CJ001

5. Date:	6. Abatement Location:	7. ☒ PCM (0.8 micron MCE)	8. ☐ TEM (0.45 micron MCE)	9. Type:
26 01	VARIOUS LOCATIONS	Cassette/Filter Manufacture _____ Lot # _____	Cassette/Filter Manufacture _____ Lot # _____	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 12a. IWA	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	14b. Avg	15. Total Air Vol. (liters)	16. # Fibers/Fields Minus Blank	17. Fiber Conc. F/CC
				Field Blank									
				Field Blank									
15		/			2050	2350	180	1.-	1.-	1.0	1800	1/100	<0.003
16		/			2400	300	180	1.0	1.0	1.0	1800	11/100	0.003
17		/			2401	301	180	1.0	1.0	1.0	1800	3/100	<0.003
18		/			2401	301	180	1.0	1.0	1.0	1800	59/100	0.016
19		/			2457	303	180	1.0	1.0	1.0	1800	6/100	<0.003

PII

CHAIN OF CUSTODY

18. Relinquished By:	19. Received By:	20. Date:	21. Time:
I	KLC	09/27/01	10:00 AM
II			

26. ATC Project Manager:	27. Result To:	Beeper/Phone #'s
T Burkhard	FAX to 212 [illegible] 3768	

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

22. Lab Name:	23. Date:	24. Time:
a. Analyzed By: A. Elby	09.27.01	1600
b. QC By:		
c. Lab Batch #: 97150		

28. Comments:

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)

NYC-WTC_000124074

NYC 9/11 Public Portal Document

AIR MONITORING DATA AND CHAIN OF CUSTODY FORM

ATC ASSOCIATES INC.

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:
Related MGM	2a. Project Address 225 Rector.	3a. Task #	4a. Air Sampler:	CT001

5. Date:	6. Abatement Location:	7. ☒ PCM (0.8 micron MCE)	8. ☐ TEM (0.45 micron MCE)	9. Type:
26-01	Various AP	Cassette/Filter Manufacture _____ Lot # _____	Cassette/Filter Manufacture _____ Lot # _____	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 12a. IWA	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	14b. Avg	15. Total Air Vol. (liters)	16. # Fibers/Fields Minus Blank	17. Fiber Conc. F/CC
20				Field Blank								0/100	
21				Field Blank								0/100	
22		✓			0110	410	180	10	10	10	1802	1/100	<0.003
23		✓			0111	411	180	10	10	10	1810	15/100	0.004
24		✓			0114	414	180	10	10	10	1810	14/100	0.004
25		✓			0115	415	180	10	10	10	1810	10/100	0.003
26					0500	500	180	10	10	10	1810	20/100	0.005

PII

CHAIN OF CUSTODY

18. Relinquished By:	19. Received By:	20. Date:	21. Time:
I	A. Ellicott	09.27.01	1030
II			

26. ATC Project Manager:	27. Result To:
J Burchard	Beeper/Phone #s 212-945-3768

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

22. Lab Name:	23. Date:	24. Time:
a. Analyzed By:	09/27/01	1630
b. QC By:		
c. Lab Batch #: 97151		

25. Microscope Make/Serial #: Olympus CHP-10US
☐ Nikon Labophot 238913
☐ Nikon Labophot 238917
☐ Nikon Labophot 239079

28. Comments:

Analysis Methodology
J PCM - NIOSH 7400A
TEM - AHERA

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

NYC 9/11 Public Portal Document

AIR MONITORING DATA AND CHAIN OF CUSTODY FORM

Page 1 of _____

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

ROJECT INFORMATION

Client:	2. Project Name	3. Project #	4. Project Monitor:	4c. Rotameter Number:
KENTED MGM	2a. Project Address 225 Rector	3a. Task #	4a. Air Sampler: C Johnson	05001

Date:	6. Abatement Location:	7. ☒ PCM (0.8 micron MCE)	8. ☐ TEM (0.45 micron MCE)	9. Type:	
25 01	CHAMBERS ST	Cassette/Filter Manufacture _____ Lot # _____	Cassette/Filter Manufacture _____ Lot # _____	a. ☐ Background b. ☐ Pre-Abate	c. ☐ Abatement d. ☐ Post-Abate e. ☐ OSHA f. ☐ Environmental g. ☒ Ambient h. ☐ Other

AILY AIR SAMPLE RECORD

). Sample I.D. Number	11. Pump Number	12. Sample Location 12a IWA	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	14b. Avg	15. Total Air Vol. (liters)	16. # Fibers/Fields Minus Blank	17. Fiber Conc. F/CC
C1				Field Blank								0/100	
C2				Field Blank								0/100	
C3		/		11 FL CENTER 4 FL RM. PII	0300	400	180	10	10	10	1800	1/100	<0.003
C4		/		11 FL CENTER 4 FL RM. PII	0302	402	180	10	10	10	1800	5/100	<0.003
C5		/		11 FL CENTER 4 FL RM PII	0303	403	180	10	10	10	1800	2/100	<0.003
C6		/		22 FL CENTER 4 FL PII	0308	408	180	10	10	10	1800	1/100	<0.003
C7		/		PH. CENTER 4 FL PII	0300	600	180	10	10	10	1800	4/100	<0.003
C8		/		23 FL CENTER 4 FL PII	0301	601	180	10	10	10	1800	1/100	<0.003

HAIN OF CUSTODY

18. Relinquished By:	19. Received By:	20. Date:	21. Time:
	RKhoja	09/26/01	1615
I			
II			

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

22. Lab Name:	23. Date:	24. Time:
a. Analyzed By: RKhoja	09/26/01	1910
b. QC By:		
c. Lab Batch #: 97121		

25. Microscope Make/Serial #: Olympus CHS/1015
☐ Nikon Labophot 238913
☐ Nikon Labophot 238917
☐ Nikon Labophot 239079

Analysis Methodology
√ PCM - NIOSH 7400A
TEM - AHERA

6. ATC Project Manager: L Burckhardt

27. Result To: Mark Lo
Beeper/Phone #'s: 212-945 3768

28. Comments:

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

NY-1 (1/01)

NYC-WTC_000124075

NYC 9/11 Public Portal Document

AIR MONITORING DATA AND CHAIN OF CUSTODY FORM

ATC ASSOCIATES INC.

Page 1 of _____

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:
RENTEL MGM.	2a. Project Address: 225 RECTOR	3a. Task #	4a. Air Sampler: C Johnson	CJ001

5. Date:	6. Abatement Location:	7. ☒ PCM (0.8 micron MCE)	8. ☐ TEM (0.45 micron MCE)	9. Type:	
9-25-01	VARIOUS 17TH	Cassette/Filter Manufacture _____ Lot # _____	Cassette/Filter Manufacture _____ Lot # _____	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 12a. IWA	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	14b. Avg	15. Total Air Vol. (liters)	16. # Fibers/Fields Minus Blank	17. Fiber Conc. F/CC
				Field Blank									
				Field Blank									
09		✓		21 FL CENTER of 7L PII	0830	630	180	10	10	10	1810	1/100	<0.003
10		✓		21 FL CENTER of 7L PII	0831	631	180	10	10	10	1810	10/100	0.003
11		✓		4 FL CENTER of 7L PII	0832	632	180	10	10	10	1810	1/100	<0.003
12		✓		4 FL CENTER of 7L PII	0834	634	180	10	10	10	1800	1/100	<0.003
VB				21 FL CENTER of 7L PII		VOID							

CHAIN OF CUSTODY

18. Relinquished By:	19. Received By:	20. Date:	21. Time:
I			
II			
III			

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

22. Lab Name:	23. Date:	24. Time:
a. Analyzed By:	09/26/01	1910
b. QC By:		
c. Lab Batch #: 97121		

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

Analysis Methodology
✓ PCM - NIOSH 7400A
TEM - AHERA

26. ATC Project Manager: J. Burke/Hma.

27. Result To: _____
Beeper/Phone #'s _____

28. Comments:

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

NY-1 (1/01)

NYC-WTC_000124076

NYC 9/11 Public Portal Document

AIR MONITORING DATA AND CHAIN OF CUSTODY FORM

Page _____ of _____

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

PROJECT INFORMATION

Client:	2. Project Name: APT Sampling.	3. Project #:	4. Project Monitor:	4c. Rotameter Number:
Realisted Mgt	2a. Project Address: 225 Rector Pl	3a. Task #	4a. Air Sampler:	FW-01

Date:	6. Abatement Location:	7. ☒ PCM (0.8 micron MCE)	8. ☐ TEM (0.45 micron MCE)	9. Type:
9-25-01	APTS 1D 2E 2G 4M	Cassette/Filter Manufacture _____ Lot # _____	Cassette/Filter Manufacture _____ Lot # _____	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 12a. IWA	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	14b. Avg	15. Total Air Vol. (liters)	16. # Fibers/Fields Minus Blank	17. Fiber Conc. F/CC
01				Field Blank								0/100	
02				Field Blank								0/100	
03				Center of APT PII	17:00	19:00	140	7	7	7	1260	1/100	<0.004
04				Center of APT PII	17:03	19:04	181	7	7	7	1267	2/100	<0.004
05				Center of APT PII	17:05	19:06	181	7	7	7	1267	1/100	<0.004
06				Center of APT PII	17:06	19:07	181	7	7	7	1267	1.5/100	<0.004

CHAIN OF CUSTODY

18. Relinquished By:	19. Received By:	20. Date:	21. Time:
I			
II			

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

22. Lab Name:	23. Date:	24. Time:
a. Analyzed By: A. Elkourt	09.26.01	8:00 am
b. QC By:		
c. Lab Batch #: 4716		

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

Analysis Methodology
PCM - NIOSH 7400A
TEM - AHERA

26. ATC Project Manager: Fred B

27. Result To: FAX 1-212-945-3768
Beeper/Phone #'s _____

28. Comments:

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

NY-1 (1/01)

NYC-WTC_000124077

NYC 9/11 Public Portal Document

AIR MONITORING DATA AND CHAIN OF CUSTODY FORM

Page _____ of _____

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

ROJECT INFORMATION

1. Client:	2. Project Name	3. Project #	4. Project Monitor:	4c. Rotameter Number:
Realted Mgt	2a. Project Address 225 Rector PL	3a. Task #	4a. Air Sampler:	FW-01

5. Date:	6. Abatement Location:	7. ☒ PCM (0.8 micron MCE)	8. ☐ TEM (0.45 micron MCE)	9. Type:
9-25-01	23 E 21st APT'S 18F 12 D 8G	Cassette/Filter Manufacture _____ Lot # _____	Cassette/Filter Manufacture _____ Lot # _____	a. ☐ Background b. ☐ Pre-Abate c. ☐ Abatement d. ☐ Post-Abate e. ☐ OSHA f. ☐ Environmental g. ☒ Ambient h. ☐ Other

AILY AIR SAMPLE RECORD

10. Sample I.D. Number	11. Pump Number	12. Sample Location 12a. IWA	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	14b. Avg	15. Total Air Vol. (liters)	16. # Fibers/Fields Minus Blank	17. Fiber Conc. F/CC
01				Field Blank								0/100	
02				Field Blank								0/100	
23-03				Center of APT	11:00	14:01	181	7.0	7.0	7.0	1267	2/100	< 0.004
21-04				Center APT	11:03	14:03	180	7.0	7.0	7.0	1260	6/100	< 0.004
18-05				Center APT	11:05	14:06	181	7.0	7.0	7.0	1267	4/100	< 0.004
12-06				Center APT	11:08	14:09	181	7.0	7.0	7.0	1267	5/100	< 0.004
8-07				Center APT	11:10	14:11	181	7.0	7.0	7.0	1267	4/100	< 0.004
BR-08				Center of Boiler Room	12:00	15:00	180	7.0	7.0	7.0	1260	14/100	0.005

PII

HAIN OF CUSTODY

18. Relinquished By:	19. Received By:	20. Date:	21. Time:
Michael Adelman	Alex	09/25/01	21.15
I			
II			

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

22. Lab Name:	23. Date:	24. Time:
a. Analyzed By: R. Proudina	9.26.01	00.15
b. QC By:		
c. Lab Batch #: 9715		

25. Microscope Make/Serial #: Olympus 1085
☐ Nikon Labophot 238913
☐ Nikon Labophot 238917
☐ Nikon Labophot 239079

Analysis Methodology
PCM - NIOSH 7400A
TEM - AHERA

26. ATC Project Manager: Fred. B

27. Result To: _____
Beeper/Phone #'s _____

28. Comments: BR Stands for Boiler Room.

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

NY-1 (1/01)

NYC-WTC_000124078

NYC 9/11 Public Portal Document

VATC ASSOCIATES INC.

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 / 2a. Project Address	3. Project # / 3a. Task #	4. Project Monitor / 4a. Air Sampler	4c. Rotameter Number:
Realnet Mgt	APT'S SAMPLING / 225 Rector PL			FW-01

Date:	6. Abatement Location:	7. ☒ PCM (0.8 micron MCE)	8. ☐ TEM (0.45 micron MCE)	9. Type:
7-25-01	225 10K 6ES APTS BR 3B+S	Cassette/Filter Manufacture / Lot #	Cassette/Filter Manufacture / Lot #	a. ☐ Background b. ☐ Pre-Abate c. ☐ Abatement d. ☐ Post-Abate e. ☐ OSHA f. ☐ Environmental ☒ Ambient h. ☐ Other

DAILY AIR SAMPLE RECORD

10. Sample I.D. Number	11. Pump Number	12. Sample Location: 12a. IWA	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	14b. Avg	15. Total Air Vol. (liters)	16. # Fibers/Fields Minus Blank	17. Fiber Conc. F/CC
01				Field Blank								0/100	
02				Field Blank								0/100	
12-03				Center Apt	14:02	17:02	180	7	7	7	1260	4/100	< 0.004
0-04				Center Apt	14:04	17:05	181	7	7	7	1267	3/100	< 0.004
-05				Center Apt	14:06	17:07	181	7	7	7	1267	3/100	< 0.004
-06				Center Apt	14:09	17:09	180	7	7	7	1260	5/100	< 0.004
5-07				Center Apt	14:10	17:12	181	7	7	7	1267	1/100	< 0.004
3-08				Center Apt	14:13	17:14	181	7	7	7	1267	2/100	< 0.004

PII

CHAIN OF CUSTODY

	18. Relinquished By:	19. Received By:	20. Date:	21. Time:
I		Oleg	09/25/01	21.15
II				

16. ATC Project Manager:

27. Results To: FAX To 1(212) 945-3768

Beeper/Phone #'s

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

22. Lab Name:	23. Date:	24. Time:
a. Analyzed By: R. Drondina	9.26.00	00.30
b. QC By:		
c. Lab Batch #: 9711		

28. Comments:

25. Microscope Make/Serial #: Olympus 025
☐ 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)

NYC-WTC_000124079

NYC-WTC_000124080

NYC 9/11 Public Portal Document

VATC ASSOCIATES INC.

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: APT Samplings	3. Project #:	4. Project Monitor:	4c. Rotameter Number:
Residential Mgmt	2a. Project Address: 225 Rector PL	3a. Task #	4a. Air Sampler:	RW-01

5. Date:	6. Abatement Location:	7. ☒ PCM (0.8 micron MCE)	8. ☐ TEM (0.45 micron MCE)	9. Type:
9-25-01	APT 22S 10K 6ETS 5R 3B+S	Cassette/Filter Manufacture _____ Lot # _____	Cassette/Filter Manufacture _____ Lot # _____	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 12a. IWA	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	14b. Avg	15. Total Air Vol. (liters)	16. # Fibers/Fields Minus Blank	17. Fiber Conc. F/CC
				Field Blank									
				Field Blank									
3-09				Center APT	14:15	17:16	181	7	7	7	1267	3/100	<0.004

PII

CHAIN OF CUSTODY

18. Relinquished By:	19. Received By:	20. Date:	21. Time:
I			
II			

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

22. Lab Name:	23. Date:	24. Time:
a. Analyzed By: R. Broudina	9.26.01	10:30
b. QC By:		
c. Lab Batch #: 97114		

25. Microscope Make/Serial #: Olympus 6225
☐ Nikon Labophot 238913
☐ Nikon Labophot 238917
☐ Nikon Labophot 239079

Analysis Methodology
PCM - NIOSH 7400A
TEM - AHERA

26. ATC Project Manager:

27. Result To: Pg #1
Beeper/Phone #'s _____

28. Comments:

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

NY-1 (1/01)

NYC 9/11 Public Portal Document

VATC ASSOCIATES INC.

AIR MONITORING DATA AND CHAIN OF CUSTODY FORM

Page _____ of _____

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

PROJECT INFORMATION

1. Client:	2. Project Name / 2a. Project Address	3. Project # / 3a. Task #	4. Project Monitor: / 4a. Air Sampler:	4c. Rotameter Number:
RELIANCE	Ambient Sample / 225 Rector PL		Michael Haddelora	FW-01

5. Date:	6. Abatement Location:	7. ☐ PCM (0.8 micron MCE)	8. ☒ TEM (0.45 micron MCE)	9. Type:
9-24-01	Hallways 15 & 2	Cassette/Filter Manufacture _____ Lot # _____	Cassette/Filter Manufacture _____ Lot # _____	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: 12a. IWA	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	14b. Avg	15. Total Air Vol. (liters)	16. # Fibers/Fields Minus Blank	17. Fiber Conc. F/CC
01				Field Blank								0/100	
02				Field Blank								0/100	
15-03				North End of Hallway	11:20	14:21	181	10	10	10	1810	9/100	<0.003
15-04				Center of Hallway	11:22	14:23	181	10	10	10	1810	5/100	<0.003
15-05				East End of Hallway	11:24	14:25	181	10	10	10	1810	3/100	<0.003
2-06				North End of Hallway	11:30	14:30	180	10	10	10	1800	4/100	<0.003
2-07				Center of Hallway	11:32	14:33	181	10	10	10	1810	4/100	<0.003
2-08				East End of Hallway	11:34	14:35	181	10	10	10	1810	3/100	<0.003

CHAIN OF CUSTODY

18. Relinquished By:	19. Received By:	20. Date:	21. Time:
I Michael Haddelora	R. Brovdina	9.24.01	17.00
II			
III			

26. ATC Project Manager: Fred. B

27. Result To: _____
Beeper/Phone #'s _____

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

22. Lab Name:	23. Date:	24. Time:
a. Analyzed By: R. Brovdina	9.24.01	17.15
b. QC By:		
c. Lab Batch #: 97093		

25. Microscope Make/Serial #:
☐ Nikon Labophot 238913 Olympus 1025
☐ Nikon Labophot 238917
☐ Nikon Labophot 239079

Analysis Methodology
PCM - NIOSH 7400A
TEM - AHERA

28. Comments: FAX Results to 1(212) 945-3768

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

NY-1 (1/01)

NYC-WTC_000124081

NYC-WTC_000124082

AIR MONITORING DATA AND CHAIN OF CUSTODY FORM

Page ____ of 1

TURNAROUND TIME

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

ROJECT INFORMATION

1. Client:	2. Project Name	3. Project #	4. Project Monitor:	4c. Rotameter Number:
Related	2a. Project Address 225 Rector	3a. Task #	4a. Air Sampler: C Johnson	CT 0.1

5. Date:	6. Abatement Location:	7. ☒ PCM (0.8 micron MCE)	8. ☐ TEM (0.45 micron MCE)	9. Type:
12/4/01	Parking Garage	Cassette/Filter Manufacture ____ Lot # ____	Cassette/Filter Manufacture ____ Lot # ____	a. ☐ Background b. ☐ Pre-Abate c. ☐ Abatement d. ☐ Post-Abate e. ☐ OSHA f. ☐ Environmental g. ☒ Ambient h. ☐ Other

AILY AIR SAMPLE RECORD

10. Sample I.D. Number	11. Pump Number	12. Sample Location 12a. IWA	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	14b. Avg	15. Total Air Vol. (liters)	16. # Fibers/Fields Minus Blank	17. Fiber Conc. F/CC
C1				Field Blank								0/100	
C2				Field Blank								0/100	
C3		/		INSIDE PARKING GARAGE	2300	400	360	6	6	6	1800	3/100	<0.003
C4		/		INSIDE PARKING GARAGE	2301	401	360	6	6	6	1800	2/100	<0.003
C5		/		INSIDE PARKING GARAGE	2302	402	360	6	6	6	1800	6/100	<0.003

HAIN OF CUSTODY

18. Relinquished By:	19. Received By:	20. Date:	21. Time:
		9/05/01	1615
I			
II			

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

22. Lab Name:	23. Date:	24. Time:
a. Analyzed By:	9/05/01	13:45
b. QC By:		
c. Lab Batch #: 97103		

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

Analysis Methodology
✓ PCM - NIOSH 7400A
TEM - AHERA

26. ATC Project Manager: J. Strickland

27. Result To: ____
Beeper/Phone #'s ____

28. Comments:

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

NY-1 (1/01)

NYC 9/11 Public Portal Document

NYC-WTC_000124083

NYC 9/11 Public Portal Document

VATC ASSOCIATES INC.

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 / 2a. Project Address	3. Project #	4. Project Monitor: / 4a. Air Sampler:	4c. Rotameter Number:
RELATED	2a. 225 Rector Pl.			FW-01

5. Date:	6. Abatement Location:	7. ☒ PCM (0.8 micron MCE) Cassette/Filter Manufacture / Lot #	8. ☐ PCM (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
09-23-01	W/n Hallway			

DAILY AIR SAMPLE RECORD

10. Sample I.D. Number	11. Pump Number	12. Sample Location: 12a. IWA	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	14b. Avg	15. Total Air Vol. (liters)	16. # Fibers/Fields Minus Blank	17. Fiber Conc. F/CC
01				Field Blank								0/100	
02				Field Blank								0/100	
PH-03				North END of Hallway	14:30	17:30	120	15	15	15	1800	5/100	<0.003
PH-04				EAST END of Hallway	14:31	17:32	120	15	15	15	1800	13/100	0.004
23-05				NORTH END of Hallway	14:33	17:33	120	15	15	15	1800	9/100	<0.003
23-06				EAST END of Hallway	14:34	17:34	120	15	15	15	1800	11/100	0.003
22-07				North END of Hallway	14:36	17:36	120	15	15	15	1800	2/100	<0.003
22-08				EAST END of Hallway	14:37	17:37	120	15	15	15	1800	13/100	0.004

CHAIN OF CUSTODY

	18. Relinquished By:	19. Received By:	20. Date:	21. Time:
I	[signature]	MCL	9/23/01	2100
II				
III				

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

22. Lab Name:	23. Date:	24. Time:
a. Analyzed By: ML MCL	9/24/01	0430
b. QC By:		
c. Lab Batch #: 97083		

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

Analysis Methodology
(PCM - NIOSH 7400A)
TEM - AHERA

26. ATC Project Manager: Ted B.

27. Result To: _____
Beeper/Phone #'s _____

28. Comments:

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

NY-1 (3/99)

NYC-WTC_000124084

NYC 9/11 Public Portal Document

ATC ASSOCIATES INC

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 / 2a. Project Address	3. Project #	4. Project Monitor: / 4a. Air Sampler:	4c. Rotameter Number:
Kelaco	225 Rector Pl			FW-01

5. Date:	6. Abatement Location:	7. ☒ PCM (0.8 micron MCE) Cassette/Filter Manufacture / Lot #	8. ☐ PCM (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
9-23-01	Hallways			

DAILY AIR SAMPLE RECORD

10. Sample I.D. Number	11. Pump Number	12. Sample Location 12a. IWA	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	14b. Avg	15. Total Air Vol. (liters)	16. # Fibers/Fields Minus Blank	17. Fiber Conc. F/CC
				Field Blank									
				Field Blank									
21-09				North End of Hallway	14:39	17:39	120	15	15	15	1800	9/100	<0.003
21-10				East End of Hallway	14:40	17:40	120	15	15	15	1800	6/100	<0.003
20:-11				North End of Hallway	14:42	17:42	120	15	15	15	1800	2/100	<0.003
20-12				East End of Hallway	14:43	17:43	120	15	15	15	1800	25/100	0.007
19-13				North End of Hallway	14:45	17:45	120	15	15	15	1800	9/100	<0.003
19-14				East End of Hallway	14:46	17:46	120	15	15	15	1800	4/100	<0.003

CHAIN OF CUSTODY

	18. Relinquished By:	19. Received By:	20. Date:	21. Time:
I			9/23/01	2100
II				
III				

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

22. Lab Name:	23. Date:	24. Time:
a. Analyzed By:	9/24/01	0430
b. QC By:		
c. Lab Batch #: 97083		

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

Analysis Methodology
(PCM - NIOSH 7400A)
TEM - AHERA

26. ATC Project Manager:

27. Result To: ____
Beeper/Phone #'s ____

28. Comments:

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

NYC-WTC_000124085

NYC 9/11 Public Portal Document

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 / 2a. Project Address	3. Project #	4. Project Monitor: / 4a. Air Sampler:	4c. Rotameter Number:
RELATED	2a. 225 Rector Pl			FW-01

5. Date:	6 Abatement Location:	7. ☒ PCM (0.8 micron MCE)	8. ☐ PCM (0.45 micron MCE)	9. Type:
09-23-01	Hallway	Cassette/Filter Manufacture _____ Lot # _____	Cassette/Filter Manufacture _____ Lot # _____	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: 12a. IWA	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	14b. Avg	15. Total Air Vol (liters)	16. # Fibers/Fields Minus Blank	17. Fiber Conc. F/CC
				Field Blank									
				Field Blank									
18-15				North END of Hallway	14:47	17:47	120	15	15	15	1800	11/100	<0.003
18-16				EAST END of Hallway	14:48	17:48	120	15	15	15	1800	3/100	<0.003
17-17				North END of Hallway	14:50	17:50	120	15	15	15	1800	18/100	0.005
17-18				EAST END of Hallway	14:51	17:51	120	15	15	15	1800	29/100	0.008
16-19				North END of Hallway	14:53	17:53	120	15	15	15	1800	29/100	0.008
16-20				EAST END of Hallway	14:54	17:54	120	15	15	15	1800	20/100	0.005

CHAIN OF CUSTODY

	18. Relinquished By:	19. Received By:	20. Date:	21. Time:
I			9/23/01	2100
II				
III				

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

22. Lab Name:	23. Date:	24. Time:
a. Analyzed By:	9/24/01	0430
b. QC By:		
c. Lab Batch #: 97083		

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

Analysis Methodology
(PCM - NIOSH 7400A)
TEM - AHERA

26. ATC Project Manager:

27. Result To: _____
Beeper/Phone #'s _____

28. Comments:

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

NY-1 (3/99)

NYC-WTC_000124086

NYC 9/11 Public Portal Document

VATC ASSOCIATES INC

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: Michael	4c. Rotameter Number:
(illegible)	2a. Project Address 225 Rector Pl		4a. Air Sampler: Addolorato	FW-01

5. Date:	6. Abatement Location:	7. ☒ PCM (0.8 micron MCE) Cassette/Filter Manufacture / Lot #	8. ☐ PCM (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
09-23-01	Hallway			

DAILY AIR SAMPLE RECORD

10. Sample I.D. Number	11. Pump Number	12. Sample Location 12a. IWA	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	14b. Avg	15. Total Air Vol. (liters)	16. # Fibers/Fields Minus Blank	17. Fiber Conc. F/CC
				Field Blank									
21				Field Blank								0/100	—
15-22				North End of Hallway	14:55	17:55	120	15	15	15	1800	OVERLOADED	
15-23				East End of Hallway	14:56	17:56	120	15	15	15	1800	24/100	0.007
14-24				North End of Hallway	14:58	17:58	120	15	15	15	1800	5/100	<0.003
14-25				East End of Hallway	14:59	17:59	120	15	15	15	1800	29/100	0.008
1226				North End of Hallway	15:02	18:02	120	15	15	15	1800	33/100	0.009
12-27				East End of Hallway	15:04	18:04	120	15	15	15	1800	34/100	0.009

CHAIN OF CUSTODY

18. Relinquished By:	19. Received By:	20. Date:	21. Time:
I (illegible)	(illegible)	9/23/01	2100
II			
III			

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

22. Lab Name:	23. Date:	24. Time:
a. Analyzed By: E. A. Cruz	9/24/01	0430
b. QC By:		
c. Lab Batch #: 97083		

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

Analysis Methodology
PCM - NIOSH 7400A
TEM - AHERA

26. ATC Project Manager:	27. Result To: _____ Beeper/Phone #'s _____	28. Comments:
(illegible)		

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

NYC-WTC_000124087

NYC 9/11 Public Portal Document

ATC ASSOCIATES INC.

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 / 2a. Project Address	3. Project #	4. Project Monitor / 4a. Air Sampler:	4c. Rotameter Number:
RELATED	225 Rector PL			FW-01

5. Date:	6. Abatement Location:	7. ☒ PCM (0.8 micron MCE) Cassette/Filter Manufacture / Lot #	8. ☐ PCM (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
09-23-01	Hallway			

DAILY AIR SAMPLE RECORD

10. Sample I.D. Number	11. Pump Number	12. Sample Location: 12a. IWA	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	14b. Avg	15. Total Air Vol (liters)	16. # Fibers/Fields Minus Blank	17. Fiber Conc. F/CC
				Field Blank									
				Field Blank									
11-28				North End of Hallway	17:30	19:30	120	15	15	15	1800	20/100	0.005
11-29				East End of Hallway	17:31	19:31	120	15	15	15	1800	3/100	<0.003
10-30				North End of Hallway	17:33	19:33	120	15	15	15	1800	27/100	0.007
10-31				East End of Hallway	17:34	19:34	120	15	15	15	1800	20/100	0.005
9-32				North End of Hallway	17:35	19:35	120	15	15	15	1800	3/100	<0.003
9-33				East End of Hallway	17:36	19:36	120	15	15	15	1800	34/100	0.009

CHAIN OF CUSTODY

18. Relinquished By:	19. Received By:	20. Date:	21. Time:
I		9/23/01	2100
II			
III			

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

22. Lab Name:	23. Date:	24. Time:
a. Analyzed By:	9/24/01	0430
b. QC By:		
c. Lab Batch #: 97083		

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

Analysis Methodology
PCM - NIOSH 7400A
TEM - AHERA

26. ATC Project Manager:

27. Result To: _____
Beeper/Phone #'s _____

28. Comments:

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

NY 1 (7/00)

NYC-WTC_000124088

NYC 9/11 Public Portal Document

VATC ASSOCIATES INC.

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 / 2a. Project Address	3. Project #	4. Project Monitor / 4a. Air Sampler:	4c. Rotameter Number:
RELATED	2a. 225 Rector Pl			FW-01

5. Date:	6. Abatement Location:	7. ☒ PCM (0.8 micron MCE) Cassette/Filter Manufacture / Lot #	8. ☐ PCM (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
09-23-01	Hallway			

DAILY AIR SAMPLE RECORD

10. Sample I.D. Number	11. Pump Number	12. Sample Location: 12a. IWA	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	14b. Avg	15. Total Air Vol (liters)	16. # Fibers/Fields Minus Blank	17. Fiber Conc. F/CC
				Field Blank									
				Field Blank									
8-34				North End of Hallway	17:36	19:36	120	15	15	15	1800	20/100	0.005
8-35				East End of Hallway	17:37	19:37	120	15	15	15	1800	3/100	<0.003
7-36				North End of Hallway	17:38	19:38	120	15	15	15	1800	2/100	<0.003
7-37				East End of Hallway	17:39	19:39	120	15	15	15	1800	4/100	<0.003
6-38				North End of Hallway	17:40	19:40	120	15	15	15	1800	4/100	<0.003
6-39				East End of Hallway	17:41	19:41	120	15	15	15	1800	2/100	<0.003

CHAIN OF CUSTODY

	18. Relinquished By:	19. Received By:	20. Date:	21. Time:
I			9/23/01	2100
II				
III				

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

22. Lab Name:	23. Date:	24. Time:
a. Analyzed By:	9/24/01	0430
b. QC By:		
c. Lab Batch #: 97083		

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

Analysis Methodology
(PCM - NIOSH 7400A)
TEM - AHERA

26. ATC Project Manager:	27. Result To: / Beeper/Phone #'s	28. Comments:
Fred B		

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

NY-1 (3/99)

NYC-WTC_000124089

NYC 9/11 Public Portal Document

ATC ASSOCIATES INC

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 / 2a. Project Address	3. Project #	4. Project Monitor: / 4a. Air Sampler:	4c. Rotameter Number:
RELATED	2a. 225 Rector Pl			FW-01

5. Date:	6. Abatement Location:	7. ☒ PCM (0.8 micron MCE) Cassette/Filter Manufacture / Lot #	8. ☐ PCM (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
09-23-01	Hallway			

DAILY AIR SAMPLE RECORD

10. Sample I.D. Number	11. Pump Number	12. Sample Location: 12a. IWA	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	14b. Avg	15. Total Air Vol (liters)	16. # Fibers/Fields Minus Blank	17. Fiber Conc. f/cc
				Field Blank									
				Field Blank									
5-40				North End of Hallway	17:42	19:42	120	15	15	15	1800	6/100	<0.003
5-41				East End of Hallway	17:43	19:43	120	15	15	15	1800	2/100	<0.003
4-42				North End of Hallway	17:44	19:44	120	15	15	15	1800	2/100	<0.003
4-43				East End of Hallway	17:45	19:45	120	15	15	15	1800	29/100	0.008
3-44				North End of Hallway	17:46	19:46	120	15	15	15	1800	33/100	0.009
3-45				East End of Hallway	17:47	19:47	120	15	15	15	1800	12/100	0.003

CHAIN OF CUSTODY

18. Relinquished By:	19. Received By:	20. Date:	21. Time:
I	ATC L	9/23/01	2100
II			
III			

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

22. Lab Name:	23. Date:	24. Time:
a. Analyzed By: ATC L	9/24/01	0430
b. QC By:		
c. Lab Batch #: 97083		

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

Analysis Methodology
PCM - NIOSH 7400A
TEM - AHERA

26. ATC Project Manager: Fred B

27. Result To: _____
Beeper/Phone #'s _____

28. Comments:

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

NY 1 (3/99)

NYC-WTC_000124090

NYC 9/11 Public Portal Document

ATC ASSOCIATES INC.

AIR MONITORING DATA AND CHAIN OF CUSTODY FORM

Page 1 of _____

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

PROJECT INFORMATION

1. Client:	2. Project Name / 2a. Project Address	3. Project #	4. Project Monitor: / 4a. Air Sampler:	4c. Rotameter Number:
Riletto	2a. 225 Rector Pl			TW-01

5. Date:	6. Abatement Location:	7. ☒ PCM (0.8 micron MCE) Cassette/Filter Manufacture / Lot #	8. ☐ PCM (0.45 micron MCE) Cassette/Filter Manufacture / Lot #	9. Type:
09-23-01	Hallway			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: 12a. IWA	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	14b. Avg	15. Total Air Vol (liters)	16. # Fibers/Fields Minus Blank	17. Fiber Conc. F/CC
				Field Blank								0/100	
FB-48				Field Blank									
2-46				North End of Hallway	17:48	19:48	120	15	15	15	1800	OVERLOADED	
2-47				EAST End of Hallway	17:50	19:50	120	15	15	15	1800	3/100	<0.003
1-49				North End of Hallway	17:51	19:51	120	15	15	15	1800	39/100	0.01
1-50				EAST End of Hallway	17:52	19:52	120	15	15	15	1800	40/100	0.01

CHAIN OF CUSTODY

18. Relinquished By:	19. Received By:	20. Date:	21. Time:
I			
II		9/27/01	2100
III			

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

22. Lab Name:	23. Date:	24. Time:
a. Analyzed By:	9/24/01	0430
b. QC By:		
c. Lab Batch #: 97083		

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

Analysis Methodology
PCM - NIOSH 7400A
TEM - AHERA

26 ATC Project Manager:

27. Result To: _____
Beeper/Phone #'s _____

28. Comments:

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

NY-1 (3/99)

NYC 9/11 Public Portal Document

ATTACHMENT 2
AIR SAMPLING DATA & CHAIN OF CUSTODY FORM,

TEM AMBIENT AIR SAMPLES

ATC Associates Inc. © 2002

NYC-WTC_000124091

NYC 9/11 Public Portal Document

ATTACHMENT 2
AIR SAMPLING DATA & CHAIN OF CUSTODY FORM,

TEM AMBIENT AIR SAMPLES

ATC Associates Inc. © 2002

NYC-WTC_000124092

NYC 9/11 Public Portal Document

ATC ASSOCIATES INC.

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212.353.8280
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November 30, 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. 5994:

Client: 225 Rector Place
Project Name: 225 Rector Place, NY, NY
Location: Various Sites
Samples received: 11/29/01

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. The results are as indicated on the attached document. MMI TEM cassettes, Lot No. 00265916, 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 the post-abatement inside samples pass, the response action may be considered to have been completed. The analyses were supervised by Dr. Michael A. Gorycki, Director of Electron Microscopy.

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

Please contact me regarding any questions relating to these materials.

Very truly yours,

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

NYC 9/11 Public Portal Document

ATC Associates

104 East 25 Street, New York, NY 10010

Phone: (212) 353-8280 Fax: (212) 353-8306

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

Fax: (212) 353-8306 **Phone:** (212) 353-8280

Project: 225 Rector Pl.
225 Rector Pl. NY, NY

Received: 11/29/01 7:00:00 AM

ATC Group #: 5994

Analysis Date: 11/30/01

Asbestos Fiber Analysis by Transmission Electron Microscopy (TEM) Performed by EPA 40 CFR Part 763 Final Rule (AHERA)

Sample	Volume	Area Analyzed	Non Asb	Asbestos Type(s)	Structures 0.5µ-5	Structures 5µ	Analytical Sensitivity (S/cc)	Asbestos Concentration (S/mm²)	Asbestos Concentration (S/cc)	Notes
1 5994 -1	1300.00	0.0674	0	None Detected	0	0	0.0044	<14.83	<0.0044	
2 5994 -2	1300.00	0.0674	0	None Detected	0	0	0.0044	<14.83	<0.0044	
3 5994 -3	1300.00	0.0674	0	None Detected	0	0	0.0044	<14.83	<0.0044	
4 5994 -4	1300.00	0.0674	0	None Detected	0	0	0.0044	<14.83	<0.0044	
5 5994 -5	1300.00	0.0674	0	None Detected	0	0	0.0044	<14.83	<0.0044	
6 5994 -6	1300.00	0.0674	0	None Detected	0	0	0.0044	<14.83	<0.0044	
7 5994 -7	1300.00	0.0674	0	None Detected	0	0	0.0044	<14.83	<0.0044	
8 5994 -8	1300.00	0.0674	0	None Detected	0	0	0.0044	<14.83	<0.0044	

MARK PEYSAKHOV
Analyzed by:

MICHAEL A. GORYCKI, Ph.D.
Approved by:

Disclaimer: The laboratory is not responsible for data reported in structures/cc, which is dependent on volume collected by non-laboratory personnel. This lab is only responsible for data reported in structures/mm². This report may not be reproduced, except in full, without written approval by ATC Associates Inc. This report may not be used to claim product endorsement by NVLAP or any other agency of the U.S. Government. This reports relates only to the samples reported above. Quality control data (including 95% confidence limits and laboratory and analysis' accuracy and precision) is available upon request.

Accredited for NVLAP PLM/TEM #101187-0, NY State ELAP #10879

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NYC-WTC_000124094

NYC 9/11 Public Portal Document

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

Fax: (212) 353-8306 **Phone:** (212) 353-8280

Project: 225 Rector Pl.
225 Rector Pl. NY, NY

Received: 11/29/01 7:00:00 AM

ATC Group #: 5994

Analysis Date: 11/30/01

Asbestos Fiber Analysis by Transmission Electron Microscopy (TEM) Performed by EPA 40 CFR Part 763 Final Rule (AHERA)

Sample	Volume	Area Analyzed	Non Asb	Asbestos Type(s)	Structures 0.5µ-5	Structures 5µ	Analytical Sensitivity (S/cc)	Asbestos Concentration (S/mm²)	Asbestos Concentration (S/cc)	Notes
9 5994 -9	1300.00	0.0674	0	None Detected	0	0	0.0044	<14.83	<0.0044	
10 5994 -10	1300.00	0.0674	0	None Detected	0	0	0.0044	<14.83	<0.0044	
11 5994 -11	1300.00	0.0674	0	None Detected	0	0	0.0044	<14.83	<0.0044	
12 5994 -12	1300.00	0.0674	0	None Detected	0	0	0.0044	<14.83	<0.0044	
13 5994 -13	1300.00	0.0674	0	None Detected	0	0	0.0044	<14.83	<0.0044	
14 5994 -14	1300.00	0.0674	0	CHRYSOTILE	0	1	0.0044	14.83	0.0044	
15 5994 -15	1300.00	0.0674	0	None Detected	0	0	0.0044	<14.83	<0.0044	
16 5994 -16	1300.00	0.0674	0	None Detected	0	0	0.0044	<14.83	<0.0044	
17 5994 -17	1300.00	0.0674	0	None Detected	0	0	0.0044	<14.83	<0.0044	
18 5994 -18	1300.00	0.0674	0	None Detected	0	0	0.0044	<14.83	<0.0044	

MARK PEYSAKHOV
Analyzed by:

MICHAEL A. GORYCKI, Ph.D.
Approved by:

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NYC 9/11 Public Portal Document

Attn: Mr. Fred Burkhardt
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104 East 25th Street
New York NY 10010

Fax: (212) 353-8306 **Phone:** (212) 353-8280

Received: 11/29/01 7:00:00 AM

ATC Group #: 5994

Analysis Date: 11/30/01

Project: 225 Rector Pl.
225 Rector Pl. NY, NY

Asbestos Fiber Analysis by Transmission Electron Microscopy (TEM) Performed by EPA 40 CFR Part 763 Final Rule (AHERA)

Sample	Volume	Area Analyzed	Non Asb	Asbestos Type(s)	Structures 0.5µ-5	Structures 5µ	Analytical Sensitivity (S/cc)	Asbestos Concentration (S/mm²)	Asbestos Concentration (S/cc)	Notes
19 5994 -19	1300.00	0.0674	0	None Detected	0	0	0.0044	<14.83	<0.0044	
20 5994 -20	1300.00	0.0674	0	None Detected	0	0	0.0044	<14.83	<0.0044	
21 5994 -21	1300.00	0.0674	0	None Detected	0	0	0.0044	<14.83	<0.0044	
22 5994 -22	1300.00	0.0674	0	None Detected	0	0	0.0044	<14.83	<0.0044	
23 5994 -23	1300.00	0.0674	0	None Detected	0	0	0.0044	<14.83	<0.0044	
24 5994 -24	1300.00	0.0674	0	None Detected	0	0	0.0044	<14.83	<0.0044	

MARK PEYSAKHOV
Analyzed by:

MICHAEL A. GORYCKI, Ph.D.
Approved by:

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Accredited for NVLAP PLM/TEM #101187-0, NY State ELAP #10879

NYC 9/11 Public Portal Document

TEM Asbestos (air) Count Sheet

Client Name:	ATC	**Volume (liters):**	1300
Lab Group #:	5994	**Filter Type / Filter Area:**	MCE 385 mm²
Lab Sample #:	1	**Grid Opening Size:**	0.01124
Client Sample #:	1	**Area Examined:**	0.06744 mm²
GRID BOX:	SPF	**Magnification:**	20,000
GRID ID:	3AB	**Accelerating Voltage:**	100 KeV
# Grid Openings:	6	**Analysis Date:**	11/29/01

Analysis Performed By: MARK PEYSAKHOV

GO.		Structure No	Structure Type				Length		ID of Structure N or √				EDS (Nonadb Elements)
	No Coord		F	B	C	M	>=05 µ <5µ	>=5µ	Chrys	Amphibole	Nonasb	Ambig/ND	
3A	1 D2	NSD											
	2 C2	— "											
	3 B2	— "											
—	4 C1	— "											
3B	5 A1	— "											
	6 B1	— "											

Struct = > 0.5µ > 5:1 Aspect Ratio

√= Positive diffraction pattern properties conforming to laboratory identification criteria observed

√= EDS spectrum conforming to laboratory identification criteria observed

F = Single Fiber
B = Bundle (<3 fibers <1 fiber diameter apart
C = Cluster (>3 Intersections)
M = Matrix
NSD = No Structures Detected

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

AMPHIBOLES
Amosite
Crocidolite
Anthophyllite
Tremolite
Actinolite

Totals

	F	B	C	M	>5µ
Chrysotile					
Amphibole					
Ambiguous					
Non-Asbestos					
Non-Identified					

NYC 9/11 Public Portal Document

TEM Asbestos (air) Count Sheet

Client Name:	ATC	**Volume (liters):**	1300
Lab Group #:	5994	**Filter Type / Filter Area:**	MCE 385 mm²
Lab Sample #:	2	**Grid Opening Size:**	0.01124
Client Sample #:	2	**Area Examined:**	0.06744 mm²
GRID BOX:	6 F E	**Magnification:**	20,000
GRID ID:	3 C D	**Accelerating Voltage:**	100 KeV
# Grid Openings:	6	**Analysis Date:**	11/29/01

Analysis Performed By: MARK PEYSAKHOV

GO. No	GO. Coord	Structure No	Structure Type F	B	C	M	Length >=05 µ <5µ	>=5µ	ID of Structure N or √ Chrys	Amphibole	Nonasb	Ambig/ND	EDS (Nonadb Elements)
	0.07	1-30											
3C	2 L7	--											
	3 P7	--											
	4 E9	--											
3D	5 J9	--											
	6 Q9	--											

Struct = > 0.5µ > 5:1 Aspect Ratio

√= Positive diffraction pattern properties conforming to laboratory identification criteria observed

√= EDS spectrum conforming to laboratory identification criteria observed

F = Single Fiber
B = Bundle (<3 fibers <1 fiber diameter apart
C = Cluster (>3 Intersections)
M = Matrix
NSD = No Structures Detected

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

AMPHIBOLES
Amosite
Crocidolite
Anthophyllite
Tremolite
Actinolite

Totals

	F	B	C	M	>5u
Chrysotile					
Amphibole					
Ambiguous					
Non-Asbestos					
Non-Identified					

NYC 9/11 Public Portal Document

TEM Asbestos (air) Count Sheet

Client Name:	ATC	**Volume (liters):**	1300
Lab Group #:	5994	**Filter Type / Filter Area:**	MCE 385 mm²
Lab Sample #:	3	**Grid Opening Size:**	0.01124
Client Sample #:	3	**Area Examined:**	0.06744 mm²
GRID BOX:	SPF	**Magnification:**	20,000
GRID ID:	3CFM	**Accelerating Voltage:**	100 KeV
# Grid Openings:	6	**Analysis Date:**	11/29/01

Analysis Performed By: MARK PEYSAKHOV

GO. No	GO. Coord	Structure No	Structure Type F	B	C	M	Length >=05 µ <5µ	Length >=5µ	ID of Structure N or √ Chrys	Amphibole	Nonasb	Ambig/ND	EDS (Nonadb Elements)
1	D2	NSD											
2	C2	—											
3	P2	—											
4	F2	—											
5	R2	—											
6	R2	—											

Struct = > 0.5µ > 5:1 Aspect Ratio

√= Positive diffraction pattern properties conforming to laboratory identification criteria observed

√= EDS spectrum conforming to laboratory identification criteria observed

F = Single Fiber
B = Bundle (<3 fibers <1 fiber diameter apart
C = Cluster (>3 Intersections)
M = Matrix
NSD = No Structures Detected

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

AMPHIBOLES
Amosite
Crocidolite
Anthophyllite
Tremolite
Actinolite

Totals

	F	B	C	M	>5µ
Chrysotile					
Amphibole					
Ambiguous					
Non-Asbestos					
Non-Identified					

NYC 9/11 Public Portal Document

TEM Asbestos (air) Count Sheet

Client Name:	ATC	**Volume (liters):**	1300
Lab Group #:	5994	**Filter Type / Filter Area:**	MCE 385 mm²
Lab Sample #:	4	**Grid Opening Size:**	0.01124
Client Sample #:	4	**Area Examined:**	0.06744 mm²
GRID BOX:	5 9 E	**Magnification:**	20,000
GRID ID:	4 B C	**Accelerating Voltage:**	100 KeV
# Grid Openings:	6	**Analysis Date:**	11/29/01

Analysis Performed By: MARK PEYSAKHOV

GO. No	GO. Coord	Structure No	Structure Type F	B	C	M	Length >=05 µ <5µ	Length >=5µ	ID of Structure N or √ Chrys	Amphibole	Nonasb	Ambig/ND	EDS (Nonadb Elements)
1	E1	NSD											
4B 2	K1	— C											
3	R1	— C											
4	A7	— C											
4C 5	D7	— C											
6	C7	— C											

Struct = > 0.5µ > 5:1 Aspect Ratio

√= Positive diffraction pattern properties conforming to laboratory identification criteria observed

√= EDS spectrum conforming to laboratory identification criteria observed

F = Single Fiber

B = Bundle (<3 fibers <1 fiber diameter apart

C = Cluster (>3 Intersections)

M = Matrix

NSD = No Structures Detected

Grid acceptance:

<50% undissolved filter, overlapped or folded

<10% particulate coverage >50% coverage ate least 20 unfolded or overlapped grid squares <5% holes or opaque areas

AMPHIBOLES

Amosite
Crocidolite
Anthophyllite
Tremolite
Actinolite

Totals

	F	B	C	M	>5µ
Chrysotile					
Amphibole					
Ambiguous					
Non-Asbestos					
Non-Identified					

NYC 9/11 Public Portal Document

TEM Asbestos (air) Count Sheet

Client Name:	ATC	**Volume (liters):**	1300
Lab Group #:	5994	**Filter Type / Filter Area:**	MCE 385 mm²
Lab Sample #:	5	**Grid Opening Size:**	0.01124
Client Sample #:	5	**Area Examined:**	0.06744 mm²
GRID BOX:	5-QE	**Magnification:**	20,000
GRID ID:	4D4-	**Accelerating Voltage:**	100 KeV
# Grid Openings:	6	**Analysis Date:**	11/29/01

Analysis Performed By: MARK PEYSAKHOV

GO. No	GO. Coord	Structure No	Structure Type F	B	C	M	Length >=05 µ <5µ	>=5µ	ID of Structure N or √ Chrys	Amphibole	Nonasb	Ambig/ND	EDS (Nonadb Elements)
1	A2	250											
4D 2	DZ	- C											
3	EZ	— C											
4	X2	— C											
4E 5	-Q2	— C											
6	JZ	— C											

Struct = > 0.5µ > 5:1 Aspect Ratio

√= Positive diffraction pattern properties conforming to laboratory identification criteria observed

√= EDS spectrum conforming to laboratory identification criteria observed

F = Single Fiber
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 ate least 20 unfolded or overlapped grid squares <5% holes or opaque areas

AMPHIBOLES
Amosite
Crocidolite
Anthophyllite
Tremolite
Actinolite

Totals

	F	B	C	M	>5µ
Chrysotile					
Amphibole					
Ambiguous					
Non-Asbestos					
Non-Identified					

NYC 9/11 Public Portal Document

TEM Asbestos (air) Count Sheet

Client Name:	ATC	**Volume (liters):**	1300
Lab Group #:	5994	**Filter Type / Filter Area:**	MCE 385 mm²
Lab Sample #:	6	**Grid Opening Size:**	0.01124
Client Sample #:	6	**Area Examined:**	0.06744 mm²
GRID BOX:	5 F	**Magnification:**	20,000
GRID ID:	5 A	**Accelerating Voltage:**	100 KeV
# Grid Openings:	6	**Analysis Date:**	11/29/01

Analysis Performed By: MARK PEYSAKHOV

GO. No	GO. Coord	Structure No	Structure Type F	B	C	M	Length >=05 µ <5µ	Length >=5µ	ID of Structure N or √ Chrys	Amphibole	Nonasb	Ambig/ND	EDS (Nonadb Elements)
1	Q3	NSD											
2	J3	—											
3	E3	—											
4	U2	—											
5	P2	—											
6	C2	—											

Struct = > 0.5µ > 5:1 Aspect Ratio

√= Positive diffraction pattern properties conforming to laboratory identification criteria observed

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F = Single Fiber
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M = Matrix
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<10% particulate coverage >50% coverage ate least 20 unfolded or overlapped grid squares <5% holes or opaque areas

AMPHIBOLES
Amosite
Crocidolite
Anthophyllite
Tremolite
Actinolite

Totals

	F	B	C	M	>5µ
Chrysotile					
Amphibole					
Ambiguous					
Non-Asbestos					
Non-Identified					

NYC 9/11 Public Portal Document

TEM Asbestos (air) Count Sheet

Client Name:	ATC	**Volume (liters):**	1300
Lab Group #:	5994	**Filter Type / Filter Area:**	MCE 385 mm²
Lab Sample #:	7	**Grid Opening Size:**	0.01124
Client Sample #:	7	**Area Examined:**	0.06744 mm²
GRID BOX:	5-E-E	**Magnification:**	20,000
GRID ID:	5-C-D	**Accelerating Voltage:**	100 KeV
# Grid Openings:	6	**Analysis Date:**	11/29/01

Analysis Performed By: MARK PEYSAKHOV

GO. No	GO. Coord	Structure No	Structure Type F	B	C	M	Length >=05 µ <5µ	Length >=5µ	ID of Structure N or √ Chrys	Amphibole	Nonasb	Ambig/ND	EDS (Nonadb Elements)
1	X8	NSD											
5-C 2	Q8	—											
3	J8	—											
4	R7	—											
5-D 5	K7	—											
6	L7	—											

Struct = > 0.5µ > 5:1 Aspect Ratio

√= Positive diffraction pattern properties conforming to laboratory identification criteria observed

√= EDS spectrum conforming to laboratory identification criteria observed

F = Single Fiber
B = Bundle (<3 fibers <1 fiber diameter apart
C = Cluster (>3 Intersections)
M = Matrix
NSD = No Structures Detected

Grid acceptance:
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AMPHIBOLES
Amosite
Crocidolite
Anthophyllite
Tremolite
Actinolite

Totals

	F	B	C	M	>5µ
Chrysotile					
Amphibole					
Ambiguous					
Non-Asbestos					
Non-Identified					

TEM Asbestos (air) Count Sheet

Client Name:	ATC	**Volume (liters):**	1300
Lab Group #:	5994	**Filter Type / Filter Area:**	MCE 385 mm²
Lab Sample #:	8	**Grid Opening Size:**	0.01124
Client Sample #:	8	**Area Examined:**	0.06744 mm²
GRID BOX:	5 9 E	**Magnification:**	20,000
GRID ID:	5 E 6 D	**Accelerating Voltage:**	100 KeV
# Grid Openings:	6	**Analysis Date:**	11/29/01

Analysis Performed By: MARK PEYSAKHOV

GO. No	Coord	Structure No	Structure Type F	B	C	M	Length >=05 µ <5µ	>=5µ	ID of Structure N or √ Chrys	Amphibole	Nonasb	Ambig/ND	EDS (Nonadb Elements)
1	01	A150											
2	C1	-- "											
3	P1	— "											
4	J3	— "											
5	Q3	— "											
6	X3	— "											

Struct = > 0.5µ .> 5:1 Aspect Ratio

√= Positive diffraction pattern properties conforming to laboratory identification criteria observed

√= EDS spectrum conforming to laboratory identification criteria observed

F = Single Fiber
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AMPHIBOLES
Amosite
Crocidolite
Anthophyllite
Tremolite
Actinolite

Totals

	F	B	C	M	>5µ
Chrysotile					
Amphibole					
Ambiguous					
Non-Asbestos					
Non-Identified					

NYC 9/11 Public Portal Document

TEM Asbestos (air) Count Sheet

Client Name:	ATC	**Volume (liters):**	1300
Lab Group #:	5994	**Filter Type / Filter Area:**	MCE 385 mm²
Lab Sample #:	9	**Grid Opening Size:**	0.01124
Client Sample #:	9	**Area Examined:**	0.06744 mm²
GRID BOX:	5FF	**Magnification:**	20,000
GRID ID:	6BC	**Accelerating Voltage:**	100 KeV
# Grid Openings:	6	**Analysis Date:**	11/29/01

Analysis Performed By: MARK PEYSAKHOV

GO. No Coord	Structure No	Structure Type F	B	C	M	Length >=05 µ <5µ	>=5µ	ID of Structure N or √ Chrys	Amphibole	Nonasb	Ambig/ND	EDS (Nonadb Elements)
1 F1	NSD											
2 K1	—											
3 R1	—											
4 X3	—											
5 Q3	—											
6 J3	—											

Struct = > 0.5µ .> 5:1 Aspect Ratio

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√= EDS spectrum conforming to laboratory identification criteria observed

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AMPHIBOLES
Amosite
Crocidolite
Anthophyllite
Tremolite
Actinolite

Totals

	F	B	C	M	>5µ
Chrysotile					
Amphibole					
Ambiguous					
Non-Asbestos					
Non-Identified					

NYC 9/11 Public Portal Document

TEM Asbestos (air) Count Sheet

Client Name:	ATC	**Volume (liters):**	1300
Lab Group #:	5994	**Filter Type / Filter Area:**	MCE 385 mm²
Lab Sample #:	10	**Grid Opening Size:**	0.01124
Client Sample #:	10	**Area Examined:**	0.06744 mm²
GRID BOX:	5PE	**Magnification:**	20,000
GRID ID:	6DE	**Accelerating Voltage:**	100 KeV
# Grid Openings:	6	**Analysis Date:**	11/29/01

Analysis Performed By: MARK PEYSAKHOV

GO. No	GO. Coord	Structure No	Structure Type F	B	C	M	Length >=05 µ <5µ	>=5µ	ID of Structure N or √ Chrys	Amphibole	Nonasb	Ambig/ND	EDS (Nonadb Elements)
1	JP	NSD											
2	QP	—											
3	XP	—											
4	ZZ	—											
5	VZ	—											
6	PZ	—											

Struct = > 0.5µ > 5:1 Aspect Ratio

√= Positive diffraction pattern properties conforming to laboratory identification criteria observed

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AMPHIBOLES
Amosite
Crocidolite
Anthophyllite
Tremolite
Actinolite

Totals

	F	B	C	M	>5µ
Chrysotile					
Amphibole					
Ambiguous					
Non-Asbestos					
Non-Identified					

NYC 9/11 Public Portal Document

TEM Asbestos (air) Count Sheet

Client Name:	ATC	**Volume (liters):**	1300
Lab Group #:	5994	**Filter Type / Filter Area:**	MCE 385 mm²
Lab Sample #:	11	**Grid Opening Size:**	0.01124
Client Sample #:	11	**Area Examined:**	0.06744 mm²
GRID BOX:	5-5?E	**Magnification:**	20,000
GRID ID:	7AB	**Accelerating Voltage:**	100 KeV
# Grid Openings:	6	**Analysis Date:**	11/29/01

Analysis Performed By: MARK PEYSAKHOV

GO.		Structure No	Structure Type				Length		ID of Structure N or √				EDS. (Nonadb Elements)
No	Coord		F	B	C	M	>=05 µ <5µ	>=5µ	Chrys	Amphibole	Nonasb	Ambig/ND	
1	J2	NSD											
2	Q2	— "											
3	K2	— "											
4	D7	— "											
5	C7	— "											
6	A7	— "											

Struct = > 0.5µ .> 5:1 Aspect Ratio

√= Positive diffraction pattern properties conforming to laboratory identification criteria observed

√= EDS spectrum conforming to laboratory identification criteria observed

F = Single Fiber
B = Bundle (<3 fibers <1 fiber diameter apart
C = Cluster (>3 Intersections)
M = Matrix
NSD = No Structures Detected

Grid acceptance:

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

AMPHIBOLES
Amosite
Crocidolite
Anthophyllite
Tremolite
Actinolite

Totals

	F	B	C	M	>5µ
Chrysotile					
Amphibole					
Ambiguous					
Non-Asbestos					
Non-Identified					

NYC 9/11 Public Portal Document

TEM Asbestos (air) Count Sheet

Client Name:	ATC	**Volume (liters):**	1300
Lab Group #:	5994	**Filter Type / Filter Area:**	MCE 385 mm²
Lab Sample #:	12	**Grid Opening Size:**	0.01124
Client Sample #:	12	**Area Examined:**	0.06744 mm²
GRID BOX:	SPE	**Magnification:**	20,000
GRID ID:	7000	**Accelerating Voltage:**	100 KeV
# Grid Openings:	6	**Analysis Date:**	11/29/01

Analysis Performed By: MARK PEYSAKHOV

GO. No	GO. Coord	Structure No	Structure Type F	B	C	M	Length >=05 µ <5µ	>=5µ	ID of Structure N or √ Chrys	Amphibole	Nonasb	Ambig/ND	EDS (Nonadb Elements)
1	V1	NSD											
2	R1	—											
3	K1	—											
4	L3	—											
5	J3	—											
6	Q3	—											

Struct = > 0.5µ .> 5:1 Aspect Ratio

√= Positive diffraction pattern properties conforming to laboratory identification criteria observed

√= EDS spectrum conforming to laboratory identification criteria observed

F = Single Fiber
B = Bundle (<3 fibers <1 fiber diameter apart
C = Cluster (>3 Intersections)
M = Matrix
NSD = No Structures Detected

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

AMPHIBOLES
Amosite
Crocidolite
Anthophyllite
Tremolite
Actinolite

Totals

	F	B	C	M	>5µ
Chrysotile					
Amphibole					
Ambiguous					
Non-Asbestos					
Non-Identified					

NYC 9/11 Public Portal Document

TEM Asbestos (air) Count Sheet

Client Name:	ATC	**Volume (liters):**	1300
Lab Group #:	5994	**Filter Type / Filter Area:**	MCE 385 mm²
Lab Sample #:	13	**Grid Opening Size:**	0.01124
Client Sample #:	13	**Area Examined:**	0.06744 mm²
GRID BOX:	SEF	**Magnification:**	20,000
GRID ID:	7E8	**Accelerating Voltage:**	100 KeV
# Grid Openings:	6	**Analysis Date:**	11/29/01

Analysis Performed By: MARK PEYSAKHOV

GO.	Structure	Structure Type				Length		ID of Structure N or √				EDS
No Coord	No	F	B	C	M	>=05 µ <5µ	>=5µ	Chrys	Amphibole	Nonasb	Ambig/ND	(Nonadb Elements)
1 X9	NSD											
2 Q9	—											
3 J8	—											
4 F7	—											
5 K7	—											
6 R7	—											

Struct = > 0.5µ > 5:1 Aspect Ratio

√= Positive diffraction pattern properties conforming to laboratory identification criteria observed

√= EDS spectrum conforming to laboratory identification criteria observed

F = Single Fiber
B = Bundle (<3 fibers <1 fiber diameter apart
C = Cluster (>3 Intersections)
M = Matrix
NSD = No Structures Detected

Grid acceptance:

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

AMPHIBOLES
Amosite
Crocidolite
Anthophyllite
Tremolite
Actinolite

Totals

	F	B	C	M	>5µ
Chrysotile					
Amphibole					
Ambiguous					
Non-Asbestos					
Non-Identified					

NYC 9/11 Public Portal Document

TEM Asbestos (air) Count Sheet

Client Name:	ATC	**Volume (liters):**	1300
Lab Group #:	5994	**Filter Type / Filter Area:**	MCE 385 mm²
Lab Sample #:	14	**Grid Opening Size:**	0.01124
Client Sample #:	14	**Area Examined:**	0.06744 mm²
GRID BOX:	SSE	**Magnification:**	20,000
GRID ID:	EBC	**Accelerating Voltage:**	100 KeV
# Grid Openings:	6	**Analysis Date:**	11/29/01

Analysis Performed By: MARK PEYSAKHOV

GO. No	GO. Coord	Structure No	Structure Type F	B	C	M	Length >=05 µ <5µ	>=5µ	ID of Structure N or √ Chrys	Amphibole	Nonasb	Ambig/ND	EDS (Nonadb Elements)
1	D1	1		C				C	C				
2	E1	NSD											
3	D1	— C											
4	X E	— C											
5	RE	— C											
6	JE	— C											

Struct = > 0.5µ .> 5:1 Aspect Ratio

√= Positive diffraction pattern properties conforming to laboratory identification criteria observed

√= EDS spectrum conforming to laboratory identification criteria observed

F = Single Fiber
B = Bundle (<3 fibers <1 fiber diameter apart
C = Cluster (>3 Intersections)
M = Matrix
NSD = No Structures Detected

Grid acceptance:

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

AMPHIBOLES
Amosite
Crocidolite
Anthophyllite
Tremolite
Actinolite

Totals

	F	B	C	M	>5µ
Chrysotile					
Amphibole					
Ambiguous					
Non-Asbestos					
Non-Identified					

NYC 9/11 Public Portal Document

TEM Asbestos (air) Count Sheet

Client Name:	ATC	**Volume (liters):**	1300
Lab Group #:	5994	**Filter Type / Filter Area:**	MCE 385 mm²
Lab Sample #:	15	**Grid Opening Size:**	0.01124
Client Sample #:	15	**Area Examined:**	0.06744 mm²
GRID BOX:	EE	**Magnification:**	20,000
GRID ID:	BOC	**Accelerating Voltage:**	100 KeV
# Grid Openings:	6	**Analysis Date:**	11/29/01

Analysis Performed By: MARK PEYSAKHOV

GO. No	GO. Coord	Structure No	Structure Type F	B	C	M	Length >=05 µ <5µ	>=5µ	ID of Structure N or √ Chrys	Amphibole	Nonasb	Ambig/ND	EDS (Nonadb Elements)
1	B1	NSD											
2	B1	—											
3	J1	—											
4	B1	—											
5	E1	—											
6	J1	—											

Struct = > 0.5µ > 5:1 Aspect Ratio

√= Positive diffraction pattern properties conforming to laboratory identification criteria observed

√= EDS spectrum conforming to laboratory identification criteria observed

F = Single Fiber

B = Bundle (<3 fibers <1 fiber diameter apart

C = Cluster (>3 Intersections)

M = Matrix

NSD = No Structures Detected

Grid acceptance:

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

AMPHIBOLES

Amosite
Crocidolite
Anthophyllite
Tremolite
Actinolite

Totals

	F	B	C	M	>5µ
Chrysotile					
Amphibole					
Ambiguous					
Non-Asbestos					
Non-Identified					

NYC 9/11 Public Portal Document

TEM Asbestos (air) Count Sheet

Client Name:	ATC	**Volume (liters):**	1300
Lab Group #:	5994	**Filter Type / Filter Area:**	MCE 385 mm²
Lab Sample #:	16	**Grid Opening Size:**	0.01124
Client Sample #:	16	**Area Examined:**	0.06744 mm²
GRID BOX:	SEE	**Magnification:**	20,000
GRID ID:	BAB	**Accelerating Voltage:**	100 KeV
# Grid Openings:	6	**Analysis Date:**	11/29/01

Analysis Performed By: MARK PEYSAKHOV

GO. No	GO. Coord	Structure No	Structure Type F	B	C	M	Length >=05 µ <5µ	Length >=5µ	ID of Structure N or √ Chrys	Amphibole	Nonasb	Ambig/ND	EDS (Nonadb Elements)
1	D1	NSO											
2	E1	—											
3	A1	—											
4	J8	—											
5	A9	—											
6	X9	—											

Struct = > 0.5µ .> 5:1 Aspect Ratio

√= Positive diffraction pattern properties conforming to laboratory identification criteria observed

√= EDS spectrum conforming to laboratory identification criteria observed

F = Single Fiber
B = Bundle (<3 fibers <1 fiber diameter apart
C = Cluster (>3 Intersections)
M = Matrix
NSD = No Structures Detected

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

AMPHIBOLES
Amosite
Crocidolite
Anthophyilite
Tremolite
Actinolite

Totals

	F	B	C	M	>5µ
Chrysotile					
Amphibole					
Ambiguous					
Non-Asbestos					
Non-Identified					

NYC 9/11 Public Portal Document

TEM Asbestos (air) Count Sheet

Client Name:	ATC	**Volume (liters):**	1300
Lab Group #:	5994	**Filter Type / Filter Area:**	MCE 385 mm²
Lab Sample #:	17	**Grid Opening Size:**	0.01124
Client Sample #:	17	**Area Examined:**	0.06744 mm²
GRID BOX:	5-5-E	**Magnification:**	20,000
GRID ID:	8 0 2	**Accelerating Voltage:**	100 KeV
# Grid Openings:	6	**Analysis Date:**	11/29/01

Analysis Performed By: MARK PEYSAKHOV

GO. No Coord	Structure No	Structure Type F	B	C	M	Length >=05 µ <5µ	>=5µ	ID of Structure N or √ Chrys	Amphibole	Nonasb	Ambig/ND	EDS (Nonadb Elements)
1 A1	NSD											
2 D1	—											
3 C1	—											
4 A8	—											
5 D8	—											
6 C8	—											

Struct = > 0.5µ .> 5:1 Aspect Ratio

√= Positive diffraction pattern properties conforming to laboratory identification criteria observed

√= EDS spectrum conforming to laboratory identification criteria observed

F = Single Fiber

B = Bundle (<3 fibers <1 fiber diameter apart

C = Cluster (>3 Intersections)

M = Matrix

NSD = No Structures Detected

Grid acceptance:

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

AMPHIBOLES

Amosite
Crocidolite
Anthophyllite
Tremolite
Actinolite

Totals

	F	B	C	M	>5µ
Chrysotile					
Amphibole					
Ambiguous					
Non-Asbestos					
Non-Identified					

NYC 9/11 Public Portal Document

TEM Asbestos (air) Count Sheet

Client Name:	ATC	**Volume (liters):**	1300
Lab Group #:	5994	**Filter Type / Filter Area:**	MCE 385 mm²
Lab Sample #:	18	**Grid Opening Size:**	0.01124
Client Sample #:	18	**Area Examined:**	0.06744 mm²
GRID BOX:	S-9E	**Magnification:**	20,000
GRID ID:	9E-10B	**Accelerating Voltage:**	100 KeV
# Grid Openings:	6	**Analysis Date:**	11/29/01

Analysis Performed By: MARK PEYSAKHOV

GO. No	GO. Coord	Structure No	Structure Type F	B	C	M	Length >=05 µ <5µ	>=5µ	ID of Structure N or √ Chrys	Amphibole	Nonasb	Ambig/ND	EDS (Nonadb Elements)
1	D8	#50											
2	C8	— "											
3	B8	— "											
4	1-1	— "											
5	S-R1	— "											
6	R1	— "											

Struct = > 0.5µ > 5:1 Aspect Ratio

√= Positive diffraction pattern properties conforming to laboratory identification criteria observed

√= EDS spectrum conforming to laboratory identification criteria observed

F = Single Fiber
B = Bundle (<3 fibers <1 fiber diameter apart
C = Cluster (>3 Intersections)
M = Matrix
NSD = No Structures Detected

Grid acceptance:

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

AMPHIBOLES
Amosite
Crocidolite
Anthophyllite
Tremolite
Actinolite

Totals

	F	B	C	M	>5µ
Chrysotile					
Amphibole					
Ambiguous					
Non-Asbestos					
Non-Identified					

NYC 9/11 Public Portal Document

TEM Asbestos (air) Count Sheet

Client Name:	ATC	**Volume (liters):**	1300
Lab Group #:	5994	**Filter Type / Filter Area:**	MCE 385 mm²
Lab Sample #:	19	**Grid Opening Size:**	0.01124
Client Sample #:	19	**Area Examined:**	0.06744 mm²
GRID BOX:	SEE	**Magnification:**	20,000
GRID ID:	1080	**Accelerating Voltage:**	100 KeV
# Grid Openings:	6	**Analysis Date:**	11/29/01

Analysis Performed By: MARK PEYSAKHOV

GO. No	GO. Coord	Structure No	Structure Type F	B	C	M	Length >=05 µ <5µ	Length >=5µ	ID of Structure N or √ Chrys	Amphibole	Nonasb	Ambig/ND	EDS (Nonadb Elements)
1	B8	NSD											
2	E8	— "											
3	J8	— "											
4	I1	— "											
5	J K1	— "											
6	R1	— "											

Struct = > 0.5µ > 5:1 Aspect Ratio

√= Positive diffraction pattern properties conforming to laboratory identification criteria observed

√= EDS spectrum conforming to laboratory identification criteria observed

F = Single Fiber
B = Bundle (<3 fibers <1 fiber diameter apart
C = Cluster (>3 Intersections)
M = Matrix
NSD = No Structures Detected

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

AMPHIBOLES
Amosite
Crocidolite
Anthophyllite
Tremolite
Actinolite

Totals

	F	B	C	M	>5µ
Chrysotile					
Amphibole					
Ambiguous					
Non-Asbestos					
Non-Identified					

NYC 9/11 Public Portal Document

TEM Asbestos (air) Count Sheet

Client Name:	ATC	**Volume (liters):**	1300
Lab Group #:	5994	**Filter Type / Filter Area:**	MCE 385 mm²
Lab Sample #:	20	**Grid Opening Size:**	0.01124
Client Sample #:	20	**Area Examined:**	0.06744 mm²
GRID BOX:	5 SE	**Magnification:**	20,000
GRID ID:	10 D	**Accelerating Voltage:**	100 KeV
# Grid Openings:	6	**Analysis Date:**	11/29/01

Analysis Performed By: MARK PEYSAKHOV

GO.		Structure	Structure Type				Length		ID of Structure N or √				EDS
No	Coord	No	F	B	C	M	>=05 µ <5µ	>=5µ	Chrys	Amphibole	Nonasb	Ambig/ND	(Nonadb Elements)
1	A2	NSD											
2	D2	—											
3	E2	—											
4	D1	—											
5	E1	—											
6	B1	—											

Struct = > 0.5µ > 5:1 Aspect Ratio

√= Positive diffraction pattern properties conforming to laboratory identification criteria observed

√= EDS spectrum conforming to laboratory identification criteria observed

F = Single Fiber
B = Bundle (<3 fibers <1 fiber diameter apart
C = Cluster (>3 Intersections)
M = Matrix
NSD = No Structures Detected

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

AMPHIBOLES
Amosite
Crocidolite
Anthophyllite
Tremolite
Actinolite

Totals

	F	B	C	M	>5µ
Chrysotile					
Amphibole					
Ambiguous					
Non-Asbestos					
Non-Identified					

NYC 9/11 Public Portal Document

TEM Asbestos (air) Count Sheet

Client Name:	ATC	**Volume (liters):**	1300
Lab Group #:	5994	**Filter Type / Filter Area:**	MCE 385 mm²
Lab Sample #:	21	**Grid Opening Size:**	0.01124
Client Sample #:	21	**Area Examined:**	0.06744 mm²
GRID BOX:	5 [illegible]	**Magnification:**	20,000
GRID ID:	[illegible]	**Accelerating Voltage:**	100 KeV
# Grid Openings:	6	**Analysis Date:**	11/29/01

Analysis Performed By: [signature]
MARK PEYSAKHOV

GO. No	GO. Coord	Structure No	Structure Type F	B	C	M	Length >=05 µ <5µ	Length >=5µ	ID of Structure N or √ Chrys	Amphibole	Nonasb	Ambig/ND	EDS (Nonadb Elements)
1	A1	NSD											
2	D1	— C											
3	E1	— C											
4	B9	— C											
5	E9	— C											
6	J9	— C											

Struct = > 0.5µ > 5:1 Aspect Ratio

√= Positive diffraction pattern properties conforming to laboratory identification criteria observed

√= EDS spectrum conforming to laboratory identification criteria observed

F = Single Fiber
B = Bundle (<3 fibers <1 fiber diameter apart
C = Cluster (>3 Intersections)
M = Matrix
NSD = No Structures Detected

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

AMPHIBOLES
Amosite
Crocidolite
Anthophyllite
Tremolite
Actinolite

Totals

	F	B	C	M	>5µ
Chrysotile					
Amphibole					
Ambiguous					
Non-Asbestos					
Non-Identified					

NYC 9/11 Public Portal Document

TEM Asbestos (air) Count Sheet

Client Name:	ATC	**Volume (liters):**	1300
Lab Group #:	5994	**Filter Type / Filter Area:**	MCE 385 mm²
Lab Sample #:	22	**Grid Opening Size:**	0.01124
Client Sample #:	22	**Area Examined:**	0.06744 mm²
GRID BOX:	5-5-5	**Magnification:**	20,000
GRID ID:	10Q	**Accelerating Voltage:**	100 KeV
# Grid Openings:	6	**Analysis Date:**	11/29/01

Analysis Performed By: MARK PEYSAKHOV

GO. No	GO. Coord	Structure No	Structure Type F	B	C	M	Length >=05 µ <5µ	Length >=5µ	ID of Structure N or √ Chrys	Amphibole	Nonasb	Ambig/ND	EDS (Nonadb Elements)
1	B1	NSD											
2	E1	—											
3	J1	—											
4	I-4	—											
5	K4	—											
6	R4	—											

Struct = > 0.5µ .> 5:1 Aspect Ratio

√= Positive diffraction pattern properties conforming to laboratory identification criteria observed

√= EDS spectrum conforming to laboratory identification criteria observed

F = Single Fiber

B = Bundle (<3 fibers <1 fiber diameter apart

C = Cluster (>3 Intersections)

M = Matrix

NSD = No Structures Detected

Grid acceptance:

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

AMPHIBOLES
Amosite
Crocidolite
Anthophyllite
Tremolite
Actinolite

Totals

	F	B	C	M	>5µ
Chrysotile					
Amphibole					
Ambiguous					
Non-Asbestos					
Non-Identified					

NYC-WTC_000124118

NYC 9/11 Public Portal Document

TEM Asbestos (air) Count Sheet

Client Name:	ATC	**Volume (liters):**	1300
Lab Group #:	5994	**Filter Type / Filter Area:**	MCE 385 mm²
Lab Sample #:	23	**Grid Opening Size:**	0.01124
Client Sample #:	23	**Area Examined:**	0.06744 mm²
GRID BOX:	5-8-5-	**Magnification:**	20,000
GRID ID:	1E2A	**Accelerating Voltage:**	100 KeV
# Grid Openings:	6	**Analysis Date:**	11/29/01

Analysis Performed By: MARK PEYSAKHOV

GO. No	GO. Coord	Structure No	Structure Type F	B	C	M	Length >=05 µ <5µ	>=5µ	ID of Structure N or √ Chrys	Amphibole	Nonasb	Ambig/ND	EDS (Nonadb Elements)
1	D1	NSD											
2	C1	--											
3	D1	—											
4	E1	—											
5	A1	—											
6	A1	—											

Struct = > 0.5µ > 5:1 Aspect Ratio

√= Positive diffraction pattern properties conforming to laboratory identification criteria observed

√= EDS spectrum conforming to laboratory identification criteria observed

F = Single Fiber

B = Bundle (<3 fibers <1 fiber diameter apart

C = Cluster (>3 Intersections)

M = Matrix

NSD = No Structures Detected

Grid acceptance:

<50% undissolved filter, overlapped or folded

<10% particulate coverage >50% coverage ate least 20 unfolded or overlapped grid squares <5% holes or opaque areas

AMPHIBOLES
Amosite
Crocidolite
Anthophyllite
Tremolite
Actinolite

Totals

	F	B	C	M	>5µ
Chrysotile					
Amphibole					
Ambiguous					
Non-Asbestos					
Non-Identified					

NYC-WTC_000124119

NYC 9/11 Public Portal Document

TEM Asbestos (air) Count Sheet

Client Name:	ATC	**Volume (liters):**	1300
Lab Group #:	5994	**Filter Type / Filter Area:**	MCE 385 mm²
Lab Sample #:	24	**Grid Opening Size:**	0.01124
Client Sample #:	24	**Area Examined:**	0.06744 mm²
GRID BOX:	S-53	**Magnification:**	20,000
GRID ID:	2BC	**Accelerating Voltage:**	100 KeV
# Grid Openings:	6	**Analysis Date:**	11/29/01

Analysis Performed By: MARK PEYSAKHOV

GO. No Coord	Structure No	Structure Type F	B	C	M	Length >=05 µ <5µ	>=5µ	ID of Structure N or √ Chrys	Amphibole	Nonasb	Ambig/ND	EDS (Nonadb Elements)
1 C1	NSO											
2 A1	— "											
3 A1	— "											
4 B3	— "											
5 D3	— "											
6 A3	— "											

Struct = > 0.5µ > 5:1 Aspect Ratio

√= Positive diffraction pattern properties conforming to laboratory identification criteria observed

√= EDS spectrum conforming to laboratory identification criteria observed

F = Single Fiber
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 ate least 20 unfolded or overlapped grid squares <5% holes or opaque areas

AMPHIBOLES
Amosite
Crocidolite
Anthophyllite
Tremolite
Actinolite

Totals

	F	B	C	M	>5µ
Chrysotile					
Amphibole					
Ambiguous					
Non-Asbestos					
Non-Identified					

NYC 9/11 Public Portal Document

VATC ASSOCIATES INC.

5991

AIR MONITORING DATA AND CHAIN OF CUSTODY FORM

Page _____ of _____

TURNAROUND TIME

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

OJECT INFORMATION

lient:	2. Project Name	3. Project #	4. Project Moniter: Austin Yusk-y	4c. Rotameter Number:
95 Reetor PL	2a. Project Address 95 Reetor PL NY NY		4a. Air Sampler:	L-159

ate:	6. Abatement Location:	7. ☐ PCM (0.8 micron MCE) Cassette/Filter Manufacture X Lot #	8. ☐ TEM (0.45 micron MCE) Cassette/Filter Manufacture MMT Lot # 0026 0916	9. Type: a. ☐ Background b. ☐ Pre-Abate c. ☐ Abatement d. ☐ Post-Abate e. ☐ OSHA f. ☐ Environmental g. ☒ Ambient h. ☐ Other
28.01				

LY AIR SAMPLE RECORD

ample I.D. Number	11. Pump Number	12. Sample Location 12a. IWA	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
3				Field Blank OPrii 30 sec									
				Field Blank									
5		V		APT	1410	1620	130	10	10	10	1300		
4		V		APT	1415	1625	130	10	10	10	1300		
5		V		Hallway, 5FL	1800	1910	130	10	10	10	1300		
6		V		~~5FL~~ Hallway 10FL	1705	1915	130	10	10	10	1300		
7		V		Hallway, 15FL	1710	1920	130	10	10	10	1300		
8		V		~~10FL~~ Hallway, 20FL	1715	1925	130	10	10	10	1300		
9		V		Lobby	1800	2010	130	10	10	10	1300		
10		V		APT	1805	2015	130	10	10	10	1300		
11		V		APT	1810	2020	130	10	10	10	1300		
12		V		APT	1815	2025	130	10	10	10	1300		
13		V		APT	1820	2030	130	10	10	10	1300		
14		V		APT	1825	2035	130	10	10	10	1300		

PII

PII

AIN OF CUSTODY

elinquished By:	19. Received By:	20. Date:	21. Time:
	JD	11/29/01	7am

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

22. Lab Name:	23. Date:	24. Time:
a. Analyzed By:	11/30	12100
b. QC By:		
c. Lab Batch #:		

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

Analysis Methodology
PCM - NIOSH 7400A

TC Project Manager:

27. Result To: Fred Burkhardt

28. Comments:

NYC-WTC_000124121

NYC 9/11 Public Portal Document

AIR MONITORING DATA AND CHAIN OF CUSTODY FORM

5994 24/27 65519-65545

Page _____ of _____

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

OJECT INFORMATION

Client:	2. Project Name	3. Project #	4. Project Monitor:	4c. Rotameter Number:
95 Reador PL	2a. Project Address: 95 Reador PL NY NY		4a. Air Sampler:	D-12

Date:	6. Abatement Location:	7. ☐ PCM (0.8 micron MCE)	8. ☒ TEM (0.45 micron MCE)	9. Type:
9-28-01		Cassette/Filter Manufacture: ✓ Lot #:	Cassette/Filter Manufacture: Mixed Lot #: 00264916	a. ☐ Background b. ☐ Pre-Abate c. ☐ Abatement d. ☐ Post-Abate e. ☐ OSHA f. ☐ Environmental g. ☒ Ambient h. ☐ Other

ILY AIR SAMPLE RECORD

Sample I.D. Number	11. Pump Number	12. Sample Location 12a. IWA	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	14b. Avg	15. Total Air Vol. (liters)	16. # Fibers/Fields Minus Blank	17. Fiber Conc. F/CC
3-1				Field Blank DI+11 30 sec									
3-2				Field Blank DI+11 30 sec									
1				APT	1000	1200	120	10	10	10	1200		
2				APT	1005	1205	130	10	10	10	1300		
3		✓		APT	1010	1220	130	10	10	10	1300		
4		✓		APT	1015	1225	130	10	10	10	1300		
5		✓		APT	1020	1230	130	10	10	10	1300		
6		✓		APT	1025	1235	130	10	10	10	1300		
7		✓		APT	1030	1240	130	10	10	10	1300		
8		✓		APT	1035	1245	130	10	10	10	1300		
9		✓		APT	1040	1250	130	10	10	10	1300		
10		✓		APT	1045	1255	130	10	10	10	1300		
11		✓		APT	1400	1610	130	10	10	10	1300		
12		✓		APT	1405	1615	130	10	10	10	1300		

PII

AIN OF CUSTODY

Relinquished By:	19. Received By:	20. Date:	21. Time:
	JP	11/29/01	10:00

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

22. Lab Name:	23. Date:	24. Time:
a. Analyzed By:	11/30	12:00
b. QC By:		
c. Lab Batch #:		

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

Analysis Methodology
PCM - NIOSH 7400A

? Project Manager:

27. Result To: Fred Burkhardt

28. Comments:

NYC-WTC_000124122

NYC 9/11 Public Portal Document

ATC ASSOCIATES INC.

Project Memorandum

Subject: 225 Rector Place

Re: Ambient Air Sampling

To: Peter Hoyle
Related Management

From: Fred Burkhardt

Date: November 19, 2001

On November 16, 2001, ATC collected one ambient air sample in each of the apartments listed below to ascertain the presence or absence of airborne asbestos. 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.

Apartments sampled are identified in the following table.

Floor	Apartments	Floor	Apartments
Penthouse	PII	11	
23		10	
22		9	
21		8	
20		7	
19	PII	6	PII
18		5	
17		4	
16		3	
15		2	
14	PII	1	
12		Basement	

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/mm^2) 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 project.

Based upon analytical sample results for all samples recording levels 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. If you have any questions or require additional explaination of the information presented please do not hesitate to call me at 212-353-8280.

Thank You.

NYC 9/11 Public Portal Document

ATC ASSOCIATES INC.

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

November 17, 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. 5907:

Client: 225 Rector Place
Project Name: 225 Rector Place, NY, NY
Location: Various Sites
Samples received: 11/17/01

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 document, no asbestos structures were detected in any of the seventeen ambient samples submitted from the site. MMI TEM cassettes, Lot No. 00265916, were used. Unfortunately, sample 2 was defective and was not analyzed.

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

Very truly yours,

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

NYC 9/11 Public Portal Document

ATC Associates

104 East 25 Street, New York, NY 10010

Phone: (212) 353-8280 Fax: (212) 353-8306

Attn: Mr. Ben Sallemi
ATC Associates Inc
104 East 25th Street
New York NY 10010

Fax: (212) 353-8306 **Phone:** (212) 353-8280

Project: 225 Rector Place
225 Rector Place

Received: 11/17/01 8:00:00 AM

ATC Group #: 5907

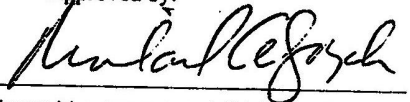
Analysis Date: 11/19/01

Asbestos Fiber Analysis by Transmission Electron Microscopy (TEM) Performed by EPA 40 CFR Part 763 Final Rule (AHERA)

Sample	Volume	Area Analyzed	Non Asb	Asbestos Type(s)	Structures 0.5µ-5	Structures 5µ	Analytical Sensitivity (S/cc)	Asbestos Concentration (S/mm²)	Asbestos Concentration (S/cc)	Notes
1 - 5907 -1	1300.00	0.0674	0	None Detected	0	0	0.0044	<14.83	<0.0044	
2 - 5907 -2	1300.00	0.0674		Not Analyzed			0.0044			Missing Filter
3 - 5907 -3	1300.00	0.0674	0	None Detected	0	0	0.0044	<14.83	<0.0044	
4 - 5907 -4	1300.00	0.0674	0	None Detected	0	0	0.0044	<14.83	<0.0044	
5 - 5907 -5	1300.00	0.0674	0	None Detected	0	0	0.0044	<14.83	<0.0044	
6 - 5907 -6	1300.00	0.0674	0	None Detected	0	0	0.0044	<14.83	<0.0044	
7 - 5907 -7	1300.00	0.0674	0	None Detected	0	0	0.0044	<14.83	<0.0044	
8 - 5907 -8	1300.00	0.0674	0	None Detected	0	0	0.0044	<14.83	<0.0044	

MICHAEL GORYCKI
Analyzed by:

MICHAEL A. GORYCKI, Ph.D.
Approved by:



Disclaimer: The laboratory is not responsible for data reported in structures/cc, which is dependent on volume collected by non-laboratory personnel. This lab is only responsible for data reported in structures/mm². This report may not be reproduced, except in full, without written approval by ATC Associates Inc. This report may not be used to claim product endorsement by NVLAP or any other agency of the U.S. Government. This reports relates only to the samples reported above. Quality control data (including 95% confidence limits and laboratory and analysis' accuracy and precision) is available upon request.

Accredited for NVLAP PLM/TEM #101187-0, NY State ELAP #10879

NYC 9/11 Public Portal Document

Attn: Mr. Ben Sallemi
ATC Associates Inc
104 East 25th Street
New York NY 10010
Fax: (212) 353-8306 **Phone:** (212) 353-8280

Project: 225 Rector Place
225 Rector Place

Received: 11/17/01 8:00:00 AM
ATC Group #: 5907
Analysis Date: 11/19/01

Asbestos Fiber Analysis by Transmission Electron Microscopy (TEM) Performed by EPA 40 CFR Part 763 Final Rule (AHERA)

Sample	Volume	Area Analyzed	Non Asb	Asbestos Type(s)	Structures 0.5µ-5	Structures 5µ	Analytical Sensitivity (S/cc)	Asbestos Concentration (S/mm²)	Asbestos Concentration (S/cc)	Notes
9 - 5907 -9	1300.00	0.0674	0	None Detected	0	0	0.0044	<14.83	<0.0044	
10 - 5907 -10	1300.00	0.0674	0	None Detected	0	0	0.0044	<14.83	<0.0044	
11 - 5907 -11	1300.00	0.0674	0	None Detected	0	0	0.0044	<14.83	<0.0044	
12 - 5907 -12	1300.00	0.0674	0	None Detected	0	0	0.0044	<14.83	<0.0044	
13 - 5907 -13	1300.00	0.0674	0	None Detected	0	0	0.0044	<14.83	<0.0044	
14 - 5907 -14	1300.00	0.0674	0	None Detected	0	0	0.0044	<14.83	<0.0044	
15 - 5907 -15	1300.00	0.0674	0	None Detected	0	0	0.0044	<14.83	<0.0044	
16 - 5907 -16	1300.00	0.0674	0	None Detected	0	0	0.0044	<14.83	<0.0044	
17 - 5907 -17	1300.00	0.0674	0	None Detected	0	0	0.0044	<14.83	<0.0044	

MICHAEL GORYCKI
Analyzed by:

MICHAEL A. GORYCKI, Ph.D.
Approved by:

Disclaimer: The laboratory is not responsible for data reported in structures/cc, which is dependent on volume collected by non-laboratory personnel. This lab is only responsible for data reported in structures/mm². This report may not be reproduced, except in full, without written approval by ATC Associates Inc. This report may not be used to claim product endorsement by NVLAP or any other agency of the U.S. Government. This reports relates only to the samples reported above. Quality control data (including 95% confidence limits and laboratory and analysis' accuracy and precision) is available upon request.

Accredited for NVLAP PLM/TEM #101187-0, NY State ELAP #10879

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NYC 9/11 Public Portal Document

TEM Asbestos (air) Count Sheet

Client Name:	ATC	**Volume (liters):**	1300
Lab Group #:	5907	**Filter Type / Filter Area:**	MCE 385 mm²
Lab Sample #:	1	**Grid Opening Size:**	0.01124
Client Sample #:	1 -	**Area Examined:**	0.06744 mm²
GRID BOX:	551	**Magnification:**	20,000
GRID ID:	22C	**Accelerating Voltage:**	100 KeV
# Grid Openings:	6	**Analysis Date:**	11/17/01

Analysis Performed By: RP
MICHAEL GORYCKI

GO. No	GO. Coord	Structure No	Structure Type F	B	C	M	Length >=05 µ <5µ	Length >=5µ	ID of Structure N or √ Chrys	Amphibole	Nonasb	Ambig/ND	EDS (Nonadb Elements)
2B 1	J2	NSD											
2	K2	"											
3	R2	"											
4	P6	"											
5	I6	"											
6	D8	"											
2C													

Struct = > 0.5µ .> 5:1 Aspect Ratio

√= Positive diffraction pattern properties conforming to laboratory identification criteria observed

√= EDS spectrum conforming to laboratory identification criteria observed

F = Single Fiber
B = Bundle (<3 fibers <1 fiber diameter apart
C = Cluster (>3 Intersections)
M = Matrix
NSD = No Structures Detected

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

AMPHIBOLES
Amosite
Crocidolite
Anthophyllite
Tremolite
Actinolite

Totals

	F	B	C	M	>5µ
Chrysotile					
Amphibole					
Ambiguous					
Non-Asbestos					
Non-Identified					

NYC 9/11 Public Portal Document

TEM Asbestos (air) Count Sheet

Client Name:	ATC	**Volume (liters):**	1300
Lab Group #:	5907	**Filter Type / Filter Area:**	MCE 385 mm²
Lab Sample #:	2	**Grid Opening Size:**	0.01124
Client Sample #:	2	**Area Examined:**	0.06744 mm²
GRID BOX:	[redacted]	**Magnification:**	20,000
GRID ID:	[redacted]	**Accelerating Voltage:**	100 KeV
# Grid Openings:	6	**Analysis Date:**	11/17/01

Analysis Performed By: MICHAEL GORYCKI

GO. No	GO. Coord	Structure No	Structure Type F	B	C	M	Length >=05 µ <5µ	Length >=5µ	ID of Structure N or √ Chrys	Amphibole	Nonasb	Ambig/ND	EDS (Nonadb Elements)
							NO FILTER						

Struct = > 0.5µ > 5:1 Aspect Ratio

√= Positive diffraction pattern properties conforming to laboratory identification criteria observed

√= EDS spectrum conforming to laboratory identification criteria observed

F = Single Fiber
B = Bundle (<3 fibers <1 fiber diameter apart
C = Cluster (>3 Intersections)
M = Matrix
NSD = No Structures Detected

Grid acceptance:

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

AMPHIBOLES
Amosite
Crocidolite
Anthophyllite
Tremolite
Actinolite

Totals

	F	B	C	M	>5µ
Chrysotile					
Amphibole					
Ambiguous					
Non-Asbestos					
Non-Identified					

NYC 9/11 Public Portal Document

TEM Asbestos (air) Count Sheet

Client Name:	ATC	**Volume (liters):**	1300
Lab Group #:	5907	**Filter Type / Filter Area:**	MCE 385 mm²
Lab Sample #:	3	**Grid Opening Size:**	0.01124
Client Sample #:	3 -	**Area Examined:**	0.06744 mm²
GRID BOX:	551	**Magnification:**	20,000
GRID ID:	~~3AB~~ 20E	**Accelerating Voltage:**	100 KeV
# Grid Openings:	6	**Analysis Date:**	11/17/01

Analysis Performed By: RD
MICHAEL GORYCKI

GO. No	GO. Coord	Structure No	Structure Type F	B	C	M	Length >=05 µ <5µ	Length >=5µ	ID of Structure N or √ Chrys	Amphibole	Nonasb	Ambig/ND	EDS (Nonadb Elements)
1	V2	NSD											
2	P2	4											
3	I2	11											
4	J2	11											
5	F8	11											
6	P8	11											

Struct = > 0.5µ > 5:1 Aspect Ratio

√= Positive diffraction pattern properties conforming to laboratory identification criteria observed

√= EDS spectrum conforming to laboratory identification criteria observed

F = Single Fiber
B = Bundle (<3 fibers <1 fiber diameter apart
C = Cluster (>3 Intersections)
M = Matrix
NSD = No Structures Detected

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

AMPHIBOLES
Amosite
Crocidolite
Anthophyllite
Tremolite
Actinolite

Totals

	F	B	C	M	>5µ
Chrysotile					
Amphibole					
Ambiguous					
Non-Asbestos					
Non-Identified					

NYC 9/11 Public Portal Document

TEM Asbestos (air) Count Sheet

Client Name:	ATC	**Volume (liters):**	1300
Lab Group #:	5907	**Filter Type / Filter Area:**	MCE 385 mm²
Lab Sample #:	4	**Grid Opening Size:**	0.01124
Client Sample #:	4	**Area Examined:**	0.06744 mm²
GRID BOX:	551	**Magnification:**	20,000
GRID ID:	3AC	**Accelerating Voltage:**	100 KeV
# Grid Openings:	6	**Analysis Date:**	11/17/01

Analysis Performed By: RP
MICHAEL GORYCKI

GO. No	GO. Coord	Structure No	Structure Type F	B	C	M	Length >=05 µ <5µ	Length >=5µ	ID of Structure N or √ Chrys	Amphibole	Nonasb	Ambig/ND	EDS (Nonadb. Elements)
A 1	I2	NSD											
2	P2	4											
3	Q2	11											
4	I2	4											
5	Q2	4											
6	X2	11											
B													

Struct = > 0.5µ > 5:1 Aspect Ratio

√= Positive diffraction pattern properties conforming to laboratory identification criteria observed

√= EDS spectrum conforming to laboratory identification criteria observed

F = Single Fiber
B = Bundle (<3 fibers <1 fiber diameter apart
C = Cluster (>3 intersections)
M = Matrix
NSD = No Structures Detected

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

AMPHIBOLES
Amosite
Crocidolite
Anthophyllite
Tremolite
Actinolite

Totals

	F	B	C	M	>5µ
Chrysotile					
Amphibole					
Ambiguous					
Non-Asbestos					
Non-Identified					

NYC 9/11 Public Portal Document

TEM Asbestos (air) Count Sheet

Client Name: ATC
Lab Group #: 5907
Lab Sample #: 5
Client Sample #: 5
GRID BOX: 557
GRID ID: 3CD
 # Grid Openings: 6

Volume (liters): 1300
Filter Type / Filter Area: MCE 385 mm²
Grid Opening Size: 0.01124
Area Examined: 0.06744 mm²
Magnification: 20,000
Accelerating Voltage: 100 KeV
Analysis Date: 11/17/01

Analysis Performed By: RP
MICHAEL GORYCKI

GO. No	GO. Coord	Structure No	Structure Type F	B	C	M	Length >=05 µ <5µ	Length >=5µ	ID of Structure N or √ Chrys	Amphibole	Nonasb	Ambig/ND	EDS (Nonadb. Elements)
1	I2	1											
2	P2	1											
3	V2	1											
4	X2	1											
5	Q3	1											
6	J3	1											

Struct = > 0.5µ .> 5:1 Aspect Ratio

√= Positive diffraction pattern properties conforming to laboratory identification criteria observed

√= EDS spectrum conforming to laboratory identification criteria observed

F = Single Fiber
B = Bundle (<3 fibers <1 fiber diameter apart
C = Cluster (>3 Intersections)
M = Matrix
NSD = No Structures Detected

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

AMPHIBOLES
Amosite
Crocidolite
Anthophyllite
Tremolite
Actinolite

Totals

	F	B	C	M	>5µ
Chrysotile					
Amphibole					
Ambiguous					
Non-Asbestos					
Non-Identified					

NYC 9/11 Public Portal Document

TEM Asbestos (air) Count Sheet

Client Name:	ATC	**Volume (liters):**	1300
Lab Group #:	5907	**Filter Type / Filter Area:**	MCE 385 mm²
Lab Sample #:	6	**Grid Opening Size:**	0.01124
Client Sample #:	6	**Area Examined:**	0.06744 mm²
GRID BOX:	551	**Magnification:**	20,000
GRID ID:	3E4A	**Accelerating Voltage:**	100 KeV
# Grid Openings:	6	**Analysis Date:**	11/17/01

Analysis Performed By: RD
MICHAEL GORYCKI

GO. No	GO. Coord	Structure No	Structure Type F	B	C	M	Length >=05 µ <5µ	Length >=5µ	ID of Structure N or √ Chrys	Amphibole	Nonasb	Ambig/ND	EDS (Nonadb Elements)
1	J2	1											
2	Q3	11											
3	R8	11											
4	E2	11											
5	J2	11											
6	Q2	11											

Struct = > 0.5µ > 5:1 Aspect Ratio

√= Positive diffraction pattern properties conforming to laboratory identification criteria observed

√= EDS spectrum conforming to laboratory identification criteria observed

F = Single Fiber
B = Bundle (<3 fibers <1 fiber diameter apart
C = Cluster (>3 Intersections)
M = Matrix
NSD = No Structures Detected

Grid acceptance:

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

AMPHIBOLES
Amosite
Crocidolite
Anthophyllite
Tremolite
Actinolite

Totals

	F	B	C	M	>5µ
Chrysotile					
Amphibole					
Ambiguous					
Non-Asbestos					
Non-Identified					

NYC 9/11 Public Portal Document

TEM Asbestos (air) Count Sheet

Client Name:	ATC	**Volume (liters):**	1300
Lab Group #:	5907	**Filter Type / Filter Area:**	MCE 385 mm²
Lab Sample #:	7	**Grid Opening Size:**	0.01124
Client Sample #:	7	**Area Examined:**	0.06744 mm²
GRID BOX:	551	**Magnification:**	20,000
GRID ID:	YBC	**Accelerating Voltage:**	100 KeV
# Grid Openings:	6	**Analysis Date:**	11/17/01

Analysis Performed By: RP
MICHAEL GORYCKI

GO. No	GO. Coord	Structure No	Structure Type F	B	C	M	Length >=05 µ <5µ	Length >=5µ	ID of Structure N or √ Chrys	Amphibole	Nonasb	Ambig/ND	EDS (Nonadb. Elements)
1	I2	NCD											
2	P2	11											
3	Q2	4											
4	P2	4											
5	I2	11											
6	J2	11											

Struct = > 0.5µ > 5:1 Aspect Ratio

√= Positive diffraction pattern properties conforming to laboratory identification criteria observed

√= EDS spectrum conforming to laboratory identification criteria observed

F = Single Fiber
B = Bundle (<3 fibers <1 fiber diameter apart
C = Cluster (>3 Intersections)
M = Matrix
NSD = No Structures Detected

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

AMPHIBOLES
Amosite
Crocidolite
Anthophyllite
Tremolite
Actinolite

Totals

	F	B	C	M	>5µ
Chrysotile					
Amphibole					
Ambiguous					
Non-Asbestos					
Non-Identified					

NYC 9/11 Public Portal Document

TEM Asbestos (air) Count Sheet

Client Name: ATC
Lab Group #: 5907
Lab Sample #: 8
Client Sample #: 8
GRID BOX: 537
GRID ID: YBE
 # Grid Openings: 6

Volume (liters): 1300
Filter Type / Filter Area: MCE 385 mm²
Grid Opening Size: 0.01124
Area Examined: 0.06744 mm²
Magnification: 20.000
Accelerating Voltage: 100 KeV
Analysis Date: 11/17/01

Analysis Performed By: RD
MICHAEL GORYCKI

GO. No	GO. Coord	Structure No	Structure Type F	B	C	M	Length >=05 µ <5µ	Length >=5µ	ID of Structure N or √ Chrys	Amphibole	Nonasb	Ambig/ND	EDS (Nonadb. Elements)
1	X2	NSD											
2	Q2	"											
3	J2	"											
4	J2	"											
5	Q2	"											
6	X2	"											

Struct = > 0.5µ > 5:1 Aspect Ratio

√= Positive diffraction pattern properties conforming to laboratory identification criteria observed

√= EDS spectrum conforming to laboratory identification criteria observed

F = Single Fiber
B = Bundle (<3 fibers <1 fiber diameter apart
C = Cluster (>3 Intersections)
M = Matrix
NSD = No Structures Detected

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

AMPHIBOLES
Amosite
Crocidolite
Anthophyllite
Tremolite
Actinolite

Totals

	F	B	C	M	>5µ
Chrysotile					
Amphibole					
Ambiguous					
Non-Asbestos					
Non-Identified					

NYC 9/11 Public Portal Document

TEM Asbestos (air) Count Sheet

Client Name:	ATC	**Volume (liters):**	1300
Lab Group #:	5907	**Filter Type / Filter Area:**	MCE 385 mm²
Lab Sample #:	9	**Grid Opening Size:**	0.01124
Client Sample #:	9 -	**Area Examined:**	0.06744 mm²
GRID BOX:	551	**Magnification:**	20,000
GRID ID:	5AB	**Accelerating Voltage:**	100 KeV
# Grid Openings:	6	**Analysis Date:**	11/17/01

Analysis Performed By: RP
MICHAEL GORYCKI

GO. No	Coord	Structure No	Structure Type F	B	C	M	Length >=05 µ <5µ	>=5µ	ID of Structure N or √ Chrys	Amphibole	Nonasb	Ambig/ND	EDS (Nonadb Elements)
5A 1	V2	NSD											
2	P1	"											
3	N1	"											
4	I2	"											
5	Q2	"											
6	P2	"											
5B													

Struct = > 0.5µ > 5:1 Aspect Ratio

√= Positive diffraction pattern properties conforming to laboratory identification criteria observed

√= EDS spectrum conforming to laboratory identification criteria observed

F = Single Fiber
B = Bundle (<3 fibers <1 fiber diameter apart
C = Cluster (>3 Intersections)
M = Matrix
NSD = No Structures Detected

Grid acceptance:

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

AMPHIBOLES
Amosite
Crocidolite
Anthophyilite
Tremolite
Actinolite

Totals

	F	B	C	M	>5µ
Chrysotile					
Amphibole					
Ambiguous					
Non-Asbestos					
Non-Identified					

NYC 9/11 Public Portal Document

TEM Asbestos (air) Count Sheet

Client Name:	ATC	**Volume (liters):**	1300
Lab Group #:	5907	**Filter Type / Filter Area:**	MCE 385 mm²
Lab Sample #:	10	**Grid Opening Size:**	0.01124
Client Sample #:	10 -	**Area Examined:**	0.06744 mm²
GRID BOX:	551	**Magnification:**	20,000
GRID ID:	5C2	**Accelerating Voltage:**	100 KeV
# Grid Openings:	6	**Analysis Date:**	11/17/01

Analysis Performed By: RP
MICHAEL GORYCKI

GO. No	GO. Coord	Structure No	Structure Type F	B	C	M	Length >=05 µ <5µ	Length >=5µ	ID of Structure N or √ Chrys	Amphibole	Nonasb	Ambig/ND	EDS (Nonadb Elements)
1	P2	NSD											
2	I2	11											
3	E1	11											
4	Q2	11											
5	J2	11											
6	I2	11											

Struct = > 0.5µ > 5:1 Aspect Ratio

√= Positive diffraction pattern properties conforming to laboratory identification criteria observed

√= EDS spectrum conforming to laboratory identification criteria observed

F = Single Fiber
B = Bundle (<3 fibers <1 fiber diameter apart
C = Cluster (>3 intersections)
M = Matrix
NSD = No Structures Detected

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

AMPHIBOLES
Amosite
Crocidolite
Anthophyllite
Tremolite
Actinolite

Totals

	F	B	C	M	>5µ
Chrysotile					
Amphibole					
Ambiguous					
Non-Asbestos					
Non-Identified					

NYC 9/11 Public Portal Document

TEM Asbestos (air) Count Sheet

Client Name:	ATC	**Volume (liters):**	1300
Lab Group #:	5907	**Filter Type / Filter Area:**	MCE 385 mm²
Lab Sample #:	11	**Grid Opening Size:**	0.01124
Client Sample #:	11 -	**Area Examined:**	0.06744 mm²
GRID BOX:	557	**Magnification:**	20,000
GRID ID:	5E6A	**Accelerating Voltage:**	100 KeV
# Grid Openings:	6	**Analysis Date:**	11/17/01

Analysis Performed By: RD
MICHAEL GORYCKI

GO. No	GO. Coord	Structure No	Structure Type F	B	C	M	Length >=05 µ <5µ	>=5µ	ID of Structure N or √ Chrys	Amphibole	Nonasb	Ambig/ND	EDS (Nonadb Elements)
1	X2	NSD											
2	Q2	"											
3	J2	"											
4	N3	"											
5	I8	"											
6	J1	"											

Struct = > 0.5µ > 5:1 Aspect Ratio

√= Positive diffraction pattern properties conforming to laboratory identification criteria observed

√= EDS spectrum conforming to laboratory identification criteria observed

F = Single Fiber
B = Bundle (<3 fibers <1 fiber diameter apart
C = Cluster (>3 Intersections)
M = Matrix
NSD = No Structures Detected

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

AMPHIBOLES
Amosite
Crocidolite
Anthophyllite
Tremolite
Actinolite

Totals

	F	B	C	M	>5µ
Chrysotile					
Amphibole					
Ambiguous					
Non-Asbestos					
Non-Identified					

NYC 9/11 Public Portal Document

NYC 9/11 Public Portal Document

TEM Asbestos (air) Count Sheet

Client Name:	ATC	**Volume (liters):**	130
Lab Group #:	5907	**Filter Type / Filter Area:**	MC
Lab Sample #:	16	**Grid Opening Size:**	0.01
Client Sample #:	16	**Area Examined:**	0.06
GRID BOX:	551	**Magnification:**	20,0
GRID ID:	7E&A	**Accelerating Voltage:**	100
# Grid Openings:	6	**Analysis Date:**	11/1

Analysis Performed By: RP
MICHAEL GORYCKI

GO. No	GO. Coord	Structure No	Structure Type F	B	C	M	Length >=05 µ <5µ	>=5µ	ID of Structure N or √ Chrys	Amphibole	Nonasb	Ambig/N
7E 1	K7	N										
2	J4	11										
3	I4	11										
4	K2	11										
5	Q2	11										
6	J2	11										
8A												

Struct = > 0.5µ > 5:1 Aspect Ratio

√= Positive diffraction pattern properties conforming to laboratory identification criteria observed

√= EDS spectrum conforming to laboratory identification criteria observed

F = Single Fiber
B = Bundle (<3 fibers <1 fiber diameter apart
C = Cluster (>3 intersections)
M = Matrix
NSD = No Structures Detected

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

AMPHIBOLES
Amosite
Crocidolite
Anthophyllite
Tremolite
Actinolite

Totals

	F	B	C
Chrysotile			
Amphibole			
Ambiguous			
Non-Asbestos			
Non-Identified			

NYC 9/11 Public Portal Document

TEM Asbestos (air) Count Sheet

Client Name:	ATC	**Volume (liters):**	1300
Lab Group #:	5907	**Filter Type / Filter Area:**	MCE 385 mm²
Lab Sample #:	16	**Grid Opening Size:**	0.01124
Client Sample #:	16 -	**Area Examined:**	0.06744 mm²
GRID BOX:	551	**Magnification:**	20,000
GRID ID:	7E&A	**Accelerating Voltage:**	100 KeV
# Grid Openings:	6	**Analysis Date:**	11/17/01

Analysis Performed By: RP
MICHAEL GORYCKI

GO. No	GO. Coord	Structure No	Structure Type F	B	C	M	Length >=05 µ <5µ	Length >=5µ	ID of Structure N or √ Chrys	Amphibole	Nonasb	Ambig/ND	EDS (Nonadb Elements)
7E 1	K7	NAD											
2	J4	11											
3	I4	11											
4	X2	11											
5	Q2	11											
6	J2	11											
8A													

Struct = > 0.5µ > 5:1 Aspect Ratio

√= Positive diffraction pattern properties conforming to laboratory identification criteria observed

√= EDS spectrum conforming to laboratory identification criteria observed

F = Single Fiber
B = Bundle (<3 fibers <1 fiber diameter apart
C = Cluster (>3 Intersections)
M = Matrix
NSD = No Structures Detected

Grid acceptance:

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

AMPHIBOLES
Amosite
Crocidolite
Anthophyllite
Tremolite
Actinolite

Totals

	F	B	C	M	>5µ
Chrysotile					
Amphibole					
Ambiguous					
Non-Asbestos					
Non-Identified					

NYC 9/11 Public Portal Document

TEM Asbestos (air) Count Sheet

Client Name:	ATC	**Volume (liters):**	1300
Lab Group #:	5907	**Filter Type / Filter Area:**	MCE 385 mm²
Lab Sample #:	17	**Grid Opening Size:**	0.01124
Client Sample #:	17 -	**Area Examined:**	0.06744 mm²
GRID BOX:	5.5-1	**Magnification:**	20,000
GRID ID:	2BC	**Accelerating Voltage:**	100 KeV
# Grid Openings:	6	**Analysis Date:**	11/17/01

Analysis Performed By: RD
MICHAEL GORYCKI

GO. No	GO. Coord	Structure No	Structure Type F	B	C	M	Length >=05 µ <5µ	Length >=5µ	ID of Structure N or √ Chrys	Amphibole	Nonasb	Ambig/ND	EDS (Nonadb Elements)
3B 1	I2	NSD											
2	P2	11											
3	Q7	11											
4	P2	11											
5	Q2	11											
6	I2	11											
3C													

Struct = > 0.5µ > 5:1 Aspect Ratio

√= Positive diffraction pattern properties conforming to laboratory identification criteria observed

√= EDS spectrum conforming to laboratory identification criteria observed

F = Single Fiber
B = Bundle (<3 fibers <1 fiber diameter apart
C = Cluster (>3 Intersections)
M = Matrix
NSD = No Structures Detected

Grid acceptance:

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

AMPHIBOLES
Amosite
Crocidolite
Anthophyllite
Tremolite
Actinolite

Totals

	F	B	C	M	>5µ
Chrysotile					
Amphibole					
Ambiguous					
Non-Asbestos					
Non-Identified					

NYC-WTC_000124142

AIR MONITORING DATA AND CHAIN OF CUSTODY FORM

5907 17/19 6299-69317

Page _____ of _____

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:
25 Reador PL	2a. Project Address: 25 Reador PL Nyack	9962-15	3a. Task #	4a. Air Sampler: Ames/Bouscly	SD-152

5. Date:	6. Abatement Location:	7. ☐ PCM (0.8 micron MCE)	8. ☐ TEM (0.45 micron MCE)	9. Type:
1.16.01		Cassette/Filter Manufacture X Lot # _____	Cassette/Filter Manufacture MAT Lot # 10265916	a. ☐ Background b. ☐ Pre-Abate c. ☐ Abatement d. ☐ Post-Abate e. ☐ OSHA f. ☐ Environmental g. ☒ Ambient h. ☐ Other

DAILY AIR SAMPLE RECORD

Sample I.D. Number	11. Pump Number	12. Sample Location: 12a. IWA	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	14b. Avg	15. Total Air Vol. (liters)	16. # Fibers/Fields Minus Blank	17. Fiber Conc. F/CC
B-1				Field Blank									
B-2				Field Blank									
1		V		APT A	1000	1210	130	10	10	10	1300		
2		V		APT #	1005	1215	130	10	10	10	1300		
3		V		APT #	1010	1220	130	10	10	10	1300		
4		V		APT #	1015	1225	130	10	10	10	1300		
5		V		APT #	1020	1230	130	10	10	10	1300		
6		V		APT #	1025	1235	130	10	10	10	1300		

PII

CHAIN OF CUSTODY

18. Relinquished By:	19. Received By:	20. Date:	21. Time:
	JT	1/17/01	8:00

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

22. Lab Name: ATC-TEM	23. Date:	24. Time:
a. Analyzed By: RRuy	1.17	19:00
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 b

ATC Project Manager: Fred Berkhardt

27. Result To: Fred Berkhardt
Beeper/Phone #'s _____

28. Comments:

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

NY-1 (1/01)

NYC 9/11 Public Portal Document

NYC-WTC_000124143

AIR MONITORING DATA AND CHAIN OF CUSTODY FORM

Page _____ of _____

TURNAROUND TIME

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

PROJECT INFORMATION

5907

1. Client:	2. Project Name	3. Project #	4. Project Monitor:	4c. Rotameter Number:
125 Reador PL	2a. Project Address: 205 Reador PL NYNY	07621-15 / 3a. Task #	4a. Air Sampler: Tyne Anastasiou/CLY	SD-152

5. Date:	6. Abatement Location:	7. ☐ PCM (0.8 micron MCE)	8. ☐ TEM (0.45 micron MCE)	9. Type:
11/6-01		Cassette/Filter Manufacture: X Lot # _____	Cassette/Filter Manufacture: MAT Lot # 00265916	a. ☐ Background b. ☐ Pre-Abate c. ☐ Abatement d. ☐ Post-Abate e. ☐ OSHA f. ☐ Environmental g. ☒ Ambient h. ☐ Other

DAILY AIR SAMPLE RECORD

Sample I.D. Number	11. Pump Number	12. Sample Location 12a. IWA	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	14b. Avg	15. Total Air Vol. (liters)	16. # Fibers/Fields Minus Blank	17. Fiber Conc. F/CC
				Field Blank									
				Field Blank									
7		V		APT #	1030	1240	130	10	10	10	1300		
8		V		APT #	1035	1245	130	10	10	10	1300		
9		V		APT #	1040	1250	130	10	10	10	1300		
10		V		APT #	1400	1610	130	10	10	10	1300		
11		V		APT #	1405	1615	130	10	10	10	1300		
12		V		APT #	1410	1620	130	10	10	10	1300		

PII

CHAIN OF CUSTODY

Relinquished By:	19. Received By:	20. Date:	21. Time:
	JL	11/7/01	8am

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

22. Lab Name: ATC-TEM	23. Date:	24. Time:
a. Analyzed By: RRy	11.17	19:00
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 6

ATC Project Manager: Fred Burkhardt

27. Result To: Fred Burkhardt
Beeper/Phone #'s _____

28. Comments:

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

NY-1 (1/01)

NYC 9/11 Public Portal Document

NYC-WTC_000124144

AIR MONITORING DATA AND CHAIN OF CUSTODY FORM

5707

Page _____ of _____

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:
125 Reade PL	2a. Project Address: 125 Reade PL NYNY	3a. Task #	4a. Air Sampler:	SD-152

5. Date:	6. Abatement Location:	7. ☐ PCM (0.8 micron MCE)	8. ☐ TEM (0.45 micron MCE)	9. Type:	
11/16/01		Cassette/Filter Manufacture: X Lot # _____	Cassette/Filter Manufacture: MAT Lot # 00265916	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 12a. IWA	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	14b. Avg	15. Total Air Vol. (liters)	16. # Fibers/Fields Minus Blank	17. Fiber Conc. F/CC
				Field Blank									
				Field Blank									
13		V		APT #	1415	1625	130	10	10	10	1300		
14		V		APT #	1420	1630	130	10	10	10	1300		
15		V		APT #	1425	1635	130	10	10	10	1300		
16		V		APT #	1430	1640	130	10	10	10	1300		
17		V		APT #	1435	1645	130	10	10	10	1300		

PII

CHAIN OF CUSTODY

18. Relinquished By:	19. Received By:	20. Date:	21. Time:
I	JH	11/17/01	9am
II.			

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

22. Lab Name: ATC-TEM	23. Date:	24. Time:
a. Analyzed By: RRW	11.17	19:00
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

26. ATC Project Manager: Fred Berkhardt

27. Result To: Fred Berkhardt
Beeper/Phone #'s _____

28. Comments:

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

NY-1 (1/01)

NYC 9/11 Public Portal Document

NYC 9/11 Public Portal Document

ATC ASSOCIATES INC.

Project Memorandum

Subject: 225 Rector Place

Re: Ambient Air Sampling

To: Peter Hoyle
Related Management

From: Fred Burkhardt

Date: November 19, 2001

On November 15, 2001, ATC collected one ambient air sample in each of the apartments listed below to ascertain the presence or absence of airborne asbestos. 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.

Apartments sampled are identified in the following table.

Floor	Apartments	Floor	Apartments
Penthouse	PII	11	PII
23		10	
22		9	
21		8	
20		7	
19		6	
18		5	
17		4	
16		3	
15		2	
14		1	
12		Basement	

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/mm^2) 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 project.

Based upon analytical sample results for all samples recording levels 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. If you have any questions or require additional explaination of the information presented please do not hesitate to call me at 212-353-8280.

Thank You.

NYC 9/11 Public Portal Document

ATC ASSOCIATES INC.

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

November 16, 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. 5901:

Client: 225 Rector Place
Project Name: 335 Rector Place, NY, NY
Location: Various Sites
Samples received: 11/16/01

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 document, no asbestos structures were detected in any of the twenty ambient samples submitted from the site. MMI TEM cassettes, Lot No. 00265916, were used.

Results reported as Struct/cc are a function of air volume collected in the field and are, as such, not verifiable by this laboratory. This report may be reproduced only in its entirety and not without prior permission of this laboratory. If post-abatement inside samples pass, the response action may be considered to have been completed. The analyses were supervised by Dr. Michael A. Gorycki, Director of Electron Microscopy.

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

Very truly yours,

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

NYC 9/11 Public Portal Document

ATC Associates

104 East 25 Street, New York, NY 10010

Phone: (212) 353-8280 Fax: (212) 353-8306

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

Fax: (212) 353-8306 Phone: (212) 353-8280

Project: 225 Rector Place
225 Rector Place , New York , NY.

Received: 11/16/01 8:00:00 AM

ATC Group #: 5901

Analysis Date: 11/16/01

Asbestos Fiber Analysis by Transmission Electron Microscopy (TEM) Performed by EPA 40 CFR Part 763 Final Rule (AHERA)

Sample	Volume	Area Analyzed	Non Asb	Asbestos Type(s)	Structures 0.5µ-5	Structures 5µ	Analytical Sensitivity (S/cc)	Asbestos Concentration (S/mm²)	Asbestos Concentration (S/cc)	Notes
1 - 5901 -1	1300.00	0.0674	0	None Detected	0	0	0.0044	<14.83	<0.0044	
2 - 5901 -2	1300.00	0.0674	0	None Detected	0	0	0.0044	<14.83	<0.0044	
3 - 5901 -3	1300.00	0.0674	0	None Detected	0	0	0.0044	<14.83	<0.0044	
4 - 5901 -4	1300.00	0.0674	0	None Detected	0	0	0.0044	<14.83	<0.0044	
5 - 5901 -5	1300.00	0.0674	0	None Detected	0	0	0.0044	<14.83	<0.0044	
6 - 5901 -6	1300.00	0.0674	0	None Detected	0	0	0.0044	<14.83	<0.0044	
7 - 5901 -7	1300.00	0.0674	0	None Detected	0	0	0.0044	<14.83	<0.0044	
8 - 5901 -8	1300.00	0.0674	0	None Detected	0	0	0.0044	<14.83	<0.0044	

ROMAN PEYSAKHOV
Analyzed by: RRey

MICHAEL A. GORYCKI, Ph.D.
Approved by:

Disclaimer: The laboratory is not responsible for data reported in structures/cc, which is dependent on volume collected by non-laboratory personnel. This lab is only responsible for data reported in structures/mm². This report may not be reproduced, except in full, without written approval by ATC Associates Inc. This report may not be used to claim product endorsement by NVLAP or any other agency of the U.S. Government. This reports relates only to the samples reported above. Quality control data (including 95% confidence limits and laboratory and analysis' accuracy and precision) is available upon request.

Accredited for NVLAP PLM/TEM #101187-0, NY State ELAP #10879

NYC-WTC_000124147

NYC 9/11 Public Portal Document

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

Fax: (212) 353-8306 **Phone:** (212) 353-8280

Received: 11/16/01 8:00:00 AM

ATC Group #: 5901

Analysis Date: 11/16/01

Project: 225 Rector Place
225 Rector Place , New York , NY.

Asbestos Fiber Analysis by Transmission Electron Microscopy (TEM) Performed by EPA 40 CFR Part 763 Final Rule (AHERA)

Sample	Volume	Area Analyzed	Non Asb	Asbestos Type(s)	Structures 0.5µ-5	Structures 5µ	Analytical Sensitivity (S/cc)	Asbestos Concentration (S/mm²)	Asbestos Concentration (S/cc)	Notes
9 - 5901 -9	1300.00	0.0674	0	None Detected	0	0	0.0044	<14.83	<0.0044	
10 - 5901 -10	1300.00	0.0674	0	None Detected	0	0	0.0044	<14.83	<0.0044	
11 - 5901 -11	1300.00	0.0674	0	None Detected	0	0	0.0044	<14.83	<0.0044	
12 - 5901 -12	1300.00	0.0674	0	None Detected	0	0	0.0044	<14.83	<0.0044	
13 - 5901 -13	1300.00	0.0674	0	None Detected	0	0	0.0044	<14.83	<0.0044	
14 - 5901 -14	1300.00	0.0674	0	None Detected	0	0	0.0044	<14.83	<0.0044	
15 - 5901 -15	1300.00	0.0674	0	None Detected	0	0	0.0044	<14.83	<0.0044	
16 - 5901 -16	1300.00	0.0674	0	None Detected	0	0	0.0044	<14.83	<0.0044	
17 - 5901 -17	1300.00	0.0674	0	None Detected	0	0	0.0044	<14.83	<0.0044	
18 - 5901 -18	1300.00	0.0674	0	None Detected	0	0	0.0044	<14.83	<0.0044	

ROMAN PEYSAKHOV
Analyzed by: RRP

MICHAEL A. GORYCKI, Ph.D.
Approved by:

Disclaimer: The laboratory is not responsible for data reported in structures/cc, which is dependent on volume collected by non-laboratory personnel. This lab is only responsible for data reported in structures/mm². This report may not be reproduced, except in full, without written approval by ATC Associates Inc. This report may not be used to claim product endorsement by NVLAP or any other agency of the U.S. Government. This reports relates only to the samples reported above. Quality control data (including 95% confidence limits and laboratory and analysis' accuracy and precision) is available upon request.

Accredited for NVLAP PLM/TEM #101187-0, NY State ELAP #10879

(D

NYC 9/11 Public Portal Document

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

Fax: (212) 353-8306 **Phone:** (212) 353-8280

Received: 11/16/01 8:00:00 AM

ATC Group #: 5901

Analysis Date: 11/16/01

Project: 225 Rector Place
225 Rector Place , New York , NY.

Asbestos Fiber Analysis by Transmission Electron Microscopy (TEM) Performed by EPA 40 CFR Part 763 Final Rule (AHERA)

Sample	Volume	Area Analyzed	Non Asb	Asbestos Type(s)	Structures 0.5µ-5	Structures 5µ	Analytical Sensitivity (S/cc)	Asbestos Concentration (S/mm²)	Asbestos Concentration (S/cc)	Notes
19 - 5901 -19	1300.00	0.0674	0	None Detected	0	0	0.0044	<14.83	<0.0044	
20 - 5901 -20	1300.00	0.0674	0	None Detected	0	0	0.0044	<14.83	<0.0044	

ROMAN PEYSAKHOV
Analyzed by: RRuy

MICHAEL A. GORYCKI, Ph.D.
Approved by:

Disclaimer: The laboratory is not responsible for data reported in structures/cc, which is dependent on volume collected by non-laboratory personnel. This lab is only responsible for data reported in structures/mm². This report may not be reproduced, except in full, without written approval by ATC Associates inc. This report may not be used to claim product endorsement by NVLAP or any other agency of the U.S. Government. This reports relates only to the samples reported above. Quality control data (including 95% confidence limits and laboratory and analysis' accuracy and precision) is available upon request.

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TEM Asbestos (air) Count Sheet

Client Name:	ATC	**Volume (liters):**	1300
Lab Group #:	5901	**Filter Type / Filter Area:**	MCE 385 mm²
Lab Sample #:	1	**Grid Opening Size:**	0.01124
Client Sample #:	1	**Area Examined:**	0.06744 mm²
GRID BOX:	542	**Magnification:**	20,000
GRID ID:	ZBC	**Accelerating Voltage:**	100 KeV
# Grid Openings:	6	**Analysis Date:**	11/16/01

Analysis Performed By: RP
ROMAN PEYSAKHOV

GO.		Structure	Structure Type				Length		ID of Structure N or √				EDS
No	Coord	No	F	B	C	M	>=05 µ <5µ	>=5µ	Chrys	Amphibole	Nonasb	Ambig/ND	(Nonadb Elements)
1	R2	NSD											
2	J2	"											
3	E2	"											
4	43	"											
5	N3	"											
6	M3	"											

Struct = > 0.5µ > 5:1 Aspect Ratio

√= Positive diffraction pattern properties conforming to laboratory identification criteria observed

√= EDS spectrum conforming to laboratory identification criteria observed

F = Single Fiber
B = Bundle (<3 fibers <1 fiber diameter apart
C = Cluster (>3 Intersections)
M = Matrix
NSD = No Structures Detected

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

AMPHIBOLES
Amosite
Crocidolite
Anthophyllite
Tremolite
Actinolite

Totals

	F	B	C	M	>5µ
Chrysotile					
Amphibole					
Ambiguous					
Non-Asbestos					
Non-Identified					

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TEM Asbestos (air) Count Sheet

Client Name:	ATC	**Volume (liters):**	1300
Lab Group #:	5901	**Filter Type / Filter Area:**	MCE 385 mm²
Lab Sample #:	2	**Grid Opening Size:**	0.01124
Client Sample #:	2	**Area Examined:**	0.06744 mm²
GRID BOX:	5-42	**Magnification:**	20,000
GRID ID:	2AE	**Accelerating Voltage:**	100 KeV
# Grid Openings:	6	**Analysis Date:**	11/16/01

Analysis Performed By: RP
ROMAN PEYSAKHOV

GO. No	GO. Coord	Structure No	Structure Type F	B	C	M	Length >=05 µ <5µ	Length >=5µ	ID of Structure N or √ Chrys	Amphibole	Nonasb	Ambig/ND	EDS (Nonadb Elements)
20 1	E4	NSD											
2	J1	"											
3	Q9	"											
4	X3	"											
5	V3	"											
3E 6	N9	"											

Struct = > 0.5µ > 5:1 Aspect Ratio

√= Positive diffraction pattern properties conforming to laboratory identification criteria observed

√= EDS spectrum conforming to laboratory identification criteria observed

F = Single Fiber
B = Bundle (<3 fibers <1 fiber diameter apart
C = Cluster (>3 Intersections)
M = Matrix
NSD = No Structures Detected

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

AMPHIBOLES
Amosite
Crocidolite
Anthophyllite
Tremolite
Actinolite

Totals

	F	B	C	M	>5µ
Chrysotile					
Amphibole					
Ambiguous					
Non-Asbestos					
Non-Identified					

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TEM Asbestos (air) Count Sheet

Client Name:	ATC	**Volume (liters):**	1300
Lab Group #:	5901	**Filter Type / Filter Area:**	MCE 385 mm²
Lab Sample #:	3	**Grid Opening Size:**	0.01124
Client Sample #:	3 -	**Area Examined:**	0.06744 mm²
GRID BOX:	542	**Magnification:**	20,000
GRID ID:	3A B	**Accelerating Voltage:**	100 KeV
# Grid Openings:	6	**Analysis Date:**	11/16/01

Analysis Performed By: RP
ROMAN PEYSAKHOV

GO. No	GO. Coord	Structure No	Structure Type F	B	C	M	Length >=05 µ <5µ	Length >=5µ	ID of Structure N or √ Chrys	Amphibole	Nonasb	Ambig/ND	EDS (Nonadb Elements)
3A 1	J6	NSD											
2	I6	"											
3	H9	"											
4	H7	"											
3B 5	P7	"											
6	N7	"											

Struct = > 0.5µ > 5:1 Aspect Ratio

√= Positive diffraction pattern properties conforming to laboratory identification criteria observed

√= EDS spectrum conforming to laboratory identification criteria observed

F = Single Fiber
B = Bundle (<3 fibers <1 fiber diameter apart
C = Cluster (>3 Intersections)
M = Matrix
NSD = No Strucures Detected

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

AMPHIBOLES
Amosite
Crocidolite
Anthophyllite
Tremolite
Actinolite

Totals

	F	B	C	M	>5µ
Chrysotile					
Amphibole					
Ambiguous					
Non-Asbestos					
Non-Identified					

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TEM Asbestos (air) Count Sheet

Client Name:	ATC	**Volume (liters):**	1300
Lab Group #:	5901	**Filter Type / Filter Area:**	MCE 385 mm²
Lab Sample #:	4	**Grid Opening Size:**	0.01124
Client Sample #:	4 -	**Area Examined:**	0.06744 mm²
GRID BOX:	5 4 Z	**Magnification:**	20,000
GRID ID:	3 C D	**Accelerating Voltage:**	100 KeV
# Grid Openings:	6	**Analysis Date:**	11/16/01

Analysis Performed By: RP
ROMAN PEYSAKHOV

GO. No	GO. Coord	Structure No	Structure Type F	B	C	M	Length >=05 µ <5µ	Length >=5µ	ID of Structure N or √ Chrys	Amphibole	Nonasb	Ambig/ND	EDS (Nonadb Elements)
1	I 6	NSD											
2	I 6	"											
3	X 2	"										1	
4	R 7	"											
5	Z 7	"											
6	X 1	"											

3C
3D

Struct = > 0.5µ > 5:1 Aspect Ratio

√= Positive diffraction pattern properties conforming to laboratory identification criteria observed

√= EDS spectrum conforming to laboratory identification criteria observed

F = Single Fiber
B = Bundle (<3 fibers <1 fiber diameter apart
C = Cluster (>3 Intersections)
M = Matrix
NSD = No Structures Detected

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

AMPHIBOLES
Amosite
Crocidolite
Anthophyllite
Tremolite
Actinolite

Totals

	F	B	C	M	>5µ
Chrysotile					
Amphibole					
Ambiguous					
Non-Asbestos					
Non-Identified					

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TEM Asbestos (air) Count Sheet

Client Name:	ATC	**Volume (liters):**	1300
Lab Group #:	5901	**Filter Type / Filter Area:**	MCE 385 mm²
Lab Sample #:	5	**Grid Opening Size:**	0.01124
Client Sample #:	5 -	**Area Examined:**	0.06744 mm²
GRID BOX:	542	**Magnification:**	20,000
GRID ID:	3E 4A	**Accelerating Voltage:**	100 KeV
# Grid Openings:	6	**Analysis Date:**	11/16/01

Analysis Performed By: RP
ROMAN PEYSAKHOV

GO. No	GO. Coord	Structure No	Structure Type F	B	C	M	Length >=05 µ <5µ	Length >=5µ	ID of Structure N or √ Chrys	Amphibole	Nonasb	Ambig/ND	EDS (Nonadb Elements)
3E 1	V2	NSD											
2	P2	"											
3	J1	"											
4	K1	"											
5	I1	"											
4A 6	S1	"											

Struct = > 0.5µ > 5:1 Aspect Ratio

√= Positive diffraction pattern properties conforming to laboratory identification criteria observed

√= EDS spectrum conforming to laboratory identification criteria observed

F = Single Fiber
B = Bundle (<3 fibers <1 fiber diameter apart
C = Cluster (>3 Intersections)
M = Matrix
NSD = No Structures Detected

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

AMPHIBOLES
Amosite
Crocidolite
Anthophyllite
Tremolite
Actinolite

Totals

	F	B	C	M	>5µ
Chrysotile					
Amphibole					
Ambiguous					
Non-Asbestos					
Non-Identified					

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TEM Asbestos (air) Count Sheet

Client Name:	ATC	**Volume (liters):**	1300
Lab Group #:	5901	**Filter Type / Filter Area:**	MCE 385 mm²
Lab Sample #:	6	**Grid Opening Size:**	0.01124
Client Sample #:	6	**Area Examined:**	0.06744 mm²
GRID BOX:	5-4 Z	**Magnification:**	20,000
GRID ID:	4BC	**Accelerating Voltage:**	100 KeV
# Grid Openings:	6	**Analysis Date:**	11/16/01

Analysis Performed By: RP
ROMAN PEYSAKHOV

GO. No	GO. Coord	Structure No	Structure Type F	B	C	M	Length >=05 µ <5µ	>=5µ	ID of Structure N or √ Chrys	Amphibole	Nonasb	Ambig/ND	EDS (Nonadb Elements)
1	B3	NSD											
2	F8	"											
3	C9	"											
4	J1	"											
5	I1	"											
6	H1	"											

Struct = > 0.5µ > 5:1 Aspect Ratio

√= Positive diffraction pattern properties conforming to laboratory identification criteria observed

√= EDS spectrum conforming to laboratory identification criteria observed

F = Single Fiber
B = Bundle (<3 fibers <1 fiber diameter apart
C = Cluster (>3 Intersections)
M = Matrix
NSD = No Structures Detected

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

AMPHIBOLES
Amosite
Crocidolite
Anthophyllite
Tremolite
Actinolite

Totals

	F	B	C	M	>5µ
Chrysotile					
Amphibole					
Ambiguous					
Non-Asbestos					
Non-Identified					

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TEM Asbestos (air) Count Sheet

Client Name:	ATC	**Volume (liters):**	1300
Lab Group #:	5901	**Filter Type / Filter Area:**	MCE 385 mm²
Lab Sample #:	7	**Grid Opening Size:**	0.01124
Client Sample #:	7 -	**Area Examined:**	0.06744 mm²
GRID BOX:	54 Z	**Magnification:**	20,000
GRID ID:	VALE	**Accelerating Voltage:**	100 KeV
# Grid Openings:	6	**Analysis Date:**	11/16/01

Analysis Performed By: RP
ROMAN PEYSAKHOV

GO. No	GO. Coord	Structure No	Structure Type F	B	C	M	Length >=05 µ <5µ	Length >=5µ	ID of Structure N or √ Chrys	Amphibole	Nonasb	Ambig/ND	EDS (Nonadb Elements)
1	R2	NSD											
2	J6	"											
3	E7	"											
4	N3	"											
5	P7	"											
6	V7	"											

Struct = > 0.5µ > 5:1 Aspect Ratio

√= Positive diffraction pattern properties conforming to laboratory identification criteria observed

√= EDS spectrum conforming to laboratory identification criteria observed

F = Single Fiber
B = Bundle (<3 fibers <1 fiber diameter apart
C = Cluster (>3 Intersections)
M = Matrix
NSD = No Structures Detected

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

AMPHIBOLES
Amosite
Crocidolite
Anthophyllite
Tremolite
Actinolite

Totals

	F	B	C	M	>5µ
Chrysotile					
Amphibole					
Ambiguous					
Non-Asbestos					
Non-Identified					

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TEM Asbestos (air) Count Sheet

Client Name:	ATC	**Volume (liters):**	1300
Lab Group #:	5901	**Filter Type / Filter Area:**	MCE 385 mm²
Lab Sample #:	8	**Grid Opening Size:**	0.01124
Client Sample #:	8	**Area Examined:**	0.06744 mm²
GRID BOX:	542	**Magnification:**	20,000
GRID ID:	5AB	**Accelerating Voltage:**	100 KeV
# Grid Openings:	6	**Analysis Date:**	11/16/01

Analysis Performed By: RP
ROMAN PEYSAKHOV

GO. No	GO. Coord	Structure No	Structure Type F	B	C	M	Length >=05 µ <5µ	Length >=5µ	ID of Structure N or √ Chrys	Amphibole	Nonasb	Ambig/ND	EDS (Nonadb Elements)
5A 1	Q7	NSD											
2	J6	"											
3	E9	"											
4	K1	"											
5B 5	V1	"											
6	P1	"											

Struct = > 0.5µ > 5:1 Aspect Ratio

√= Positive diffraction pattern properties conforming to laboratory identification criteria observed

√= EDS spectrum conforming to laboratory identification criteria observed

F = Single Fiber
B = Bundle (<3 fibers <1 fiber diameter apart
C = Cluster (>3 intersections)
M = Matrix
NSD = No Structures Detected

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

AMPHIBOLES
Amosite
Crocidolite
Anthophyllite
Tremolite
Actinolite

Totals

	F	B	C	M	>5µ
Chrysotile					
Amphibole					
Ambiguous					
Non-Asbestos					
Non-Identified					

TEM Asbestos (air) Count Sheet

Client Name:	ATC	**Volume (liters):**	1300
Lab Group #:	5901	**Filter Type / Filter Area:**	MCE 385 mm²
Lab Sample #:	9	**Grid Opening Size:**	0.01124
Client Sample #:	9	**Area Examined:**	0.06744 mm²
GRID BOX:	542	**Magnification:**	20,000
GRID ID:	5CQ	**Accelerating Voltage:**	100 KeV
# Grid Openings:	6	**Analysis Date:**	11/16/01

Analysis Performed By: RP
ROMAN PEYSAKHOV

GO. No	GO. Coord	Structure No	Structure Type F	B	C	M	Length >=05 µ <5µ	>=5µ	ID of Structure N or √ Chrys	Amphibole	Nonasb	Ambig/ND	EDS (Nonadb Elements)
1	X2	NSD											
2	Q2	"											
3	J2	"											
4	V4	"											
5	P4	"											
6	I4	"											

Struct = > 0.5µ > 5:1 Aspect Ratio

√= Positive diffraction pattern properties conforming to laboratory identification criteria observed

√= EDS spectrum conforming to laboratory identification criteria observed

F = Single Fiber
B = Bundle (<3 fibers <1 fiber diameter apart
C = Cluster (>3 Intersections)
M = Matrix
NSD = No Structures Detected

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

AMPHIBOLES
Amosite
Crocidolite
Anthophyllite
Tremolite
Actinolite

Totals

	F	B	C	M	>5µ
Chrysotile					
Amphibole					
Ambiguous					
Non-Asbestos					
Non-Identified					

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TEM Asbestos (air) Count Sheet

Client Name:	ATC	**Volume (liters):**	1300
Lab Group #:	5901	**Filter Type / Filter Area:**	MCE 385 mm²
Lab Sample #:	10	**Grid Opening Size:**	0.01124
Client Sample #:	10 -	**Area Examined:**	0.06744 mm²
GRID BOX:	5H2	**Magnification:**	20,000
GRID ID:	5E6A	**Accelerating Voltage:**	100 KeV
# Grid Openings:	6	**Analysis Date:**	11/16/01

Analysis Performed By: RP
ROMAN PEYSAKHOV

GO. No	GO. Coord	Structure No	Structure Type F	B	C	M	Length >=05 µ <5µ	Length >=5µ	ID of Structure N or √ Chrys	Amphibole	Nonasb	Ambig/ND	EDS (Nonadb Elements)
1	J2	NSD											
2	J2	"											
3	J2	"											
4	J9	"											
5	J9	"											
6	E9	"											

5E

6A

Struct = > 0.5µ > 5:1 Aspect Ratio

√= Positive diffraction pattern properties conforming to laboratory identification criteria observed

√= EDS spectrum conforming to laboratory identification criteria observed

F = Single Fiber
B = Bundle (<3 fibers <1 fiber diameter apart
C = Cluster (>3 Intersections)
M = Matrix
NSD = No Structures Detected

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

AMPHIBOLES
Amosite
Crocidolite
Anthophyllite
Tremolite
Actinolite

Totals

	F	B	C	M	>5µ
Chrysotile					
Amphibole					
Ambiguous					
Non-Asbestos					
Non-Identified					

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TEM Asbestos (air) Count Sheet

Client Name:	ATC	**Volume (liters):**	1300
Lab Group #:	5901	**Filter Type / Filter Area:**	MCE 385 mm²
Lab Sample #:	11	**Grid Opening Size:**	0.01124
Client Sample #:	11	**Area Examined:**	0.06744 mm²
GRID BOX:	542	**Magnification:**	20,000
GRID ID:	6BC	**Accelerating Voltage:**	100 KeV
# Grid Openings:	6	**Analysis Date:**	11/16/01

Analysis Performed By: RP
ROMAN PEYSAKHOV

GO. No	GO. Coord	Structure No	Structure Type F	B	C	M	Length >=05 µ <5µ	Length >=5µ	ID of Structure N or √ Chrys	Amphibole	Nonasb	Ambig/ND	EDS (Nonadb Elements)
6B 1	P8	NSD											
2	I8	"											
3	D8	"											
4	V7	"											
5	Y9	"											
6C 6	P6	"											

Struct = > 0.5µ > 5:1 Aspect Ratio

√= Positive diffraction pattern properties conforming to laboratory identification criteria observed

√= EDS spectrum conforming to laboratory identification criteria observed

F = Single Fiber
B = Bundle (<3 fibers <1 fiber diameter apart
C = Cluster (>3 Intersections)
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Grid acceptance:
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<10% particulate coverage >50% coverage ate least 20 unfolded or overlapped grid squares <5% holes or opaque areas

AMPHIBOLES
Amosite
Crocidolite
Anthophyllite
Tremolite
Actinolite

Totals

	F	B	C	M	>5µ
Chrysotile					
Amphibole					
Ambiguous					
Non-Asbestos					
Non-Identified					

NYC 9/11 Public Portal Document

TEM Asbestos (air) Count Sheet

Client Name:	ATC	**Volume (liters):**	1300
Lab Group #:	5901	**Filter Type / Filter Area:**	MCE 385 mm²
Lab Sample #:	12	**Grid Opening Size:**	0.01124
Client Sample #:	12	**Area Examined:**	0.06744 mm²
GRID BOX:	4 Z	**Magnification:**	20,000
GRID ID:	6 E	**Accelerating Voltage:**	100 KeV
# Grid Openings:	6	**Analysis Date:**	11/16/01

Analysis Performed By: RP
ROMAN PEYSAKHOV

GO. No	GO. Coord	Structure No	Structure Type F	B	C	M	Length >=05 µ <5µ	Length >=5µ	ID of Structure N or √ Chrys	Amphibole	Nonasb	Ambig/ND	EDS (Nonadb Elements)
1	P2	NSD											
2	J4	"											
3	Q3	"											
4	N1	"											
5	I1	"											
6	J1	"											

Struct = > 0.5µ > 5:1 Aspect Ratio

√= Positive diffraction pattern properties conforming to laboratory identification criteria observed

√= EDS spectrum conforming to laboratory identification criteria observed

F = Single Fiber
B = Bundle (<3 fibers <1 fiber diameter apart
C = Cluster (>3 Intersections)
M = Matrix
NSD = No Structures Detected

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

AMPHIBOLES
Amosite
Crocidolite
Anthophyllite
Tremolite
Actinolite

Totals

	F	B	C	M	>5µ
Chrysotile					
Amphibole					
Ambiguous					
Non-Asbestos					
Non-Identified					

NYC 9/11 Public Portal Document

TEM Asbestos (air) Count Sheet

Client Name:	ATC	**Volume (liters):**	1300
Lab Group #:	5901	**Filter Type / Filter Area:**	MCE 385 mm²
Lab Sample #:	13	**Grid Opening Size:**	0.01124
Client Sample #:	13 -	**Area Examined:**	0.06744 mm²
GRID BOX:	542	**Magnification:**	20.000
GRID ID:	7AB	**Accelerating Voltage:**	100 KeV
# Grid Openings:	6	**Analysis Date:**	11/16/01

Analysis Performed By: RP
ROMAN PEYSAKHOV

GO.		Structure No	Structure Type				Length		ID of Structure N or √				EDS (Nonadb Elements)
No	Coord		F	B	C	M	>=05 µ <5µ	>=5µ	Chrys	Amphibole	Nonasb	Ambig/ND	
7A 1	E8	NSD											
2	D8	"											
3	I8	"											
4	C3	"											
5	B1	"											
7B 6	N8	"											

Struct = > 0.5µ > 5:1 Aspect Ratio

√= Positive diffraction pattern properties conforming to laboratory identification criteria observed

√= EDS spectrum conforming to laboratory identification criteria observed

F = Single Fiber
B = Bundle (<3 fibers <1 fiber diameter apart
C = Cluster (>3 Intersections)
M = Matrix
NSD = No Structures Detected

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

AMPHIBOLES
Amosite
Crocidolite
Anthophyllite
Tremolite
Actinolite

Totals

	F	B	C	M	>5µ
Chrysotile					
Amphibole					
Ambiguous					
Non-Asbestos					
Non-Identified					

NYC-WTC_000124162

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TEM Asbestos (air) Count Sheet

Client Name:	ATC	**Volume (liters):**	1300
Lab Group #:	5901	**Filter Type / Filter Area:**	MCE 385 mm²
Lab Sample #:	14	**Grid Opening Size:**	0.01124
Client Sample #:	14 -	**Area Examined:**	0.06744 mm²
GRID BOX:	54Z	**Magnification:**	20,000
GRID ID:	7CD	**Accelerating Voltage:**	100 KeV
# Grid Openings:	6	**Analysis Date:**	11/16/01

Analysis Performed By: RP
ROMAN PEYSAKHOV

GO. No	GO. Coord	Structure No	Structure Type F	B	C	M	Length >=05 µ <5µ	Length >=5µ	ID of Structure N or √ Chrys	Amphibole	Nonasb	Ambig/ND	EDS (Nonadb Elements)
7C 1	K1	NSD											
2	E8	"											
3	D8	"											
4	Y3	"											
5	V3	"											
7D 6	73	"											

Struct = > 0.5µ > 5:1 Aspect Ratio

√= Positive diffraction pattern properties conforming to laboratory identification criteria observed

√= EDS spectrum conforming to laboratory identification criteria observed

F = Single Fiber
B = Bundle (<3 fibers <1 fiber diameter apart
C = Cluster (>3 intersections)
M = Matrix
NSD = No Structures Detected

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

AMPHIBOLES
Amosite
Crocidolite
Anthophyllite
Tremolite
Actinolite

Totals

	F	B	C	M	>5µ
Chrysotile					
Amphibole					
Ambiguous					
Non-Asbestos					
Non-Identified					

NYC 9/11 Public Portal Document

TEM Asbestos (air) Count Sheet

Client Name:	ATC	**Volume (liters):**	1300
Lab Group #:	5901	**Filter Type / Filter Area:**	MCE 385 mm²
Lab Sample #:	15	**Grid Opening Size:**	0.01124
Client Sample #:	15 -	**Area Examined:**	0.06744 mm²
GRID BOX:	5YZ	**Magnification:**	20,000
GRID ID:	7E&A	**Accelerating Voltage:**	100 KeV
# Grid Openings:	6	**Analysis Date:**	11/16/01

Analysis Performed By: RP

ROMAN PEYSAKHOV

GO. No	GO. Coord	Structure No	Structure Type F	B	C	M	Length >=05 µ <5µ	Length >=5µ	ID of Structure N or √ Chrys	Amphibole	Nonasb	Ambig/ND	EDS (Nonadb Elements)
1	X3	NSD											
2	Q4	"											
3	P4	"											
4	Q7	"											
5	P7	"											
6	Y7	"											

7E

3A

Struct = > 0.5µ > 5:1 Aspect Ratio

√= Positive diffraction pattern properties conforming to laboratory identification criteria observed

√= EDS spectrum conforming to laboratory identification criteria observed

F = Single Fiber

B = Bundle (<3 fibers <1 fiber diameter apart

C = Cluster (>3 Intersections)

M = Matrix

NSD = No Structures Detected

Grid acceptance:

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

AMPHIBOLES

Amosite
Crocidolite
Anthophyllite
Tremolite
Actinolite

Totals

	F	B	C	M	>5µ
Chrysotile					
Amphibole					
Ambiguous					
Non-Asbestos					
Non-Identified					

NYC 9/11 Public Portal Document

TEM Asbestos (air) Count Sheet

Client Name:	ATC	**Volume (liters):**	1300
Lab Group #:	5901	**Filter Type / Filter Area:**	MCE 385 mm²
Lab Sample #:	16	**Grid Opening Size:**	0.01124
Client Sample #:	16	**Area Examined:**	0.06744 mm²
GRID BOX:	542	**Magnification:**	20,000
GRID ID:	2 BC	**Accelerating Voltage:**	100 KeV
# Grid Openings:	6	**Analysis Date:**	11/16/01

Analysis Performed By: RP
ROMAN PEYSAKHOV

GO. No	GO. Coord	Structure No	Structure Type F	B	C	M	Length >=05 µ <5µ	Length >=5µ	ID of Structure N or √ Chrys	Amphibole	Nonasb	Ambig/ND	EDS (Nonadb Elements)
1B	1 Q2	NSD											
	2 J2	"											
	3 I2	"											
	4 N3	"											
	5 H3	"											
X	6 G3	"											

Struct = > 0.5µ > 5:1 Aspect Ratio

√= Positive diffraction pattern properties conforming to laboratory identification criteria observed

√= EDS spectrum conforming to laboratory identification criteria observed

F = Single Fiber
B = Bundle (<3 fibers <1 fiber diameter apart
C = Cluster (>3 Intersections)
M = Matrix
NSD = No Structures Detected

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

AMPHIBOLES
Amosite
Crocidolite
Anthophyllite
Tremolite
Actinolite

Totals

	F	B	C	M	>5µ
Chrysotile					
Amphibole					
Ambiguous					
Non-Asbestos					
Non-Identified					

NYC 9/11 Public Portal Document

TEM Asbestos (air) Count Sheet

Client Name:	ATC	**Volume (liters):**	1300
Lab Group #:	5901	**Filter Type / Filter Area:**	MCE 385 mm²
Lab Sample #:	17	**Grid Opening Size:**	0.01124
Client Sample #:	17	**Area Examined:**	0.06744 mm²
GRID BOX:	542	**Magnification:**	20,000
GRID ID:	AAE	**Accelerating Voltage:**	100 KeV
# Grid Openings:	6	**Analysis Date:**	11/16/01

Analysis Performed By: RP

ROMAN PEYSAKHOV

GO. No	GO. Coord	Structure No	Structure Type F	B	C	M	Length >=05 µ <5µ	Length >=5µ	ID of Structure N or √ Chrys	Amphibole	Nonasb	Ambig/ND	EDS (Nonadb Elements)
1	X2	NSD											
2	Q2	"											
3	J1	"											
4	F7	"											
5	E7	"											
6	D7	"											

Struct = > 0.5µ > 5:1 Aspect Ratio

√= Positive diffraction pattern properties conforming to laboratory identification criteria observed

√= EDS spectrum conforming to laboratory identification criteria observed

F = Single Fiber

B = Bundle (<3 fibers <1 fiber diameter apart

C = Cluster (>3 intersections)

M = Matrix

NSD = No Structures Detected

Grid acceptance:

<50% undissolved filter, overlapped or folded

<10% particulate coverage >50% coverage ate least 20 unfolded or overlapped grid squares <5% holes or opaque areas

AMPHIBOLES

Amosite
Crocidolite
Anthophyllite
Tremolite
Actinolite

Totals

	F	B	C	M	>5µ
Chrysotile					
Amphibole					
Ambiguous					
Non-Asbestos					
Non-Identified					

NYC 9/11 Public Portal Document

TEM Asbestos (air) Count Sheet

Client Name:	ATC	**Volume (liters):**	1300
Lab Group #:	5901	**Filter Type / Filter Area:**	MCE 385 mm²
Lab Sample #:	18	**Grid Opening Size:**	0.01124
Client Sample #:	18 -	**Area Examined:**	0.06744 mm²
GRID BOX:	542	**Magnification:**	20,000
GRID ID:	9AB	**Accelerating Voltage:**	100 KeV
# Grid Openings:	6	**Analysis Date:**	11/16/01

Analysis Performed By: RP

ROMAN PEYSAKHOV

GO. No	GO. Coord	Structure No	Structure Type F	B	C	M	Length >=05 µ <5µ	Length >=5µ	ID of Structure N or √ Chrys	Amphibole	Nonasb	Ambig/ND	EDS (Nonadb Elements)
9A	1 N2	NSD											
	2 I8	"											
	3 J4	"											
	4 K1	"											
	5 L1	"											
9B	6 R1	"											

Struct = > 0.5µ > 5:1 Aspect Ratio

√= Positive diffraction pattern properties conforming to laboratory identification criteria observed

√= EDS spectrum conforming to laboratory identification criteria observed

F = Single Fiber

B = Bundle (<3 fibers <1 fiber diameter apart

C = Cluster (>3 Intersections)

M = Matrix

NSD = No Structures Detected

Grid acceptance:

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

AMPHIBOLES

Amosite
Crocidolite
Anthophyllite
Tremolite
Actinolite

Totals

	F	B	C	M	>5µ
Chrysotile					
Amphibole					
Ambiguous					
Non-Asbestos					
Non-Identified					

NYC 9/11 Public Portal Document

TEM Asbestos (air) Count Sheet

Client Name:	ATC	**Volume (liters):**	1300
Lab Group #:	5901	**Filter Type / Filter Area:**	MCE 385 mm²
Lab Sample #:	19	**Grid Opening Size:**	0.01124
Client Sample #:	19 -	**Area Examined:**	0.06744 mm²
GRID BOX:	GHZ	**Magnification:**	20,000
GRID ID:	9CD	**Accelerating Voltage:**	100 KeV
# Grid Openings:	6	**Analysis Date:**	11/16/01

Analysis Performed By: RP
ROMAN PEYSAKHOV

GO. No	GO. Coord	Structure No	Structure Type F	B	C	M	Length >=05 µ <5µ	Length >=5µ	ID of Structure N or √ Chrys	Amphibole	Nonasb	Ambig/ND	EDS (Nonadb Elements)
1C	1 QZ	NSD											
	2 IZ	"											
	3 PZ	"											
	4 JT4	"											
	5 KC4	"											
1D	6 R4	"											

Struct = > 0.5µ .> 5:1 Aspect Ratio

√= Positive diffraction pattern properties conforming to laboratory identification criteria observed

√= EDS spectrum conforming to laooratory identification criteria observed

F = Single Fiber
B = Bundle (<3 fibers <1 fiber diameter apart
C = Cluster (>3 Intersections)
M = Matrix
NSD = No Structures Detected

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

AMPHIBOLES
Amosite
Crocidolite
Anthophyllite
Tremolite
Actinolite

Totals

	F	B	C	M	>5µ
Chrysotile					
Amphibole					
Ambiguous					
Non-Asbestos					
Non-Identified					

NYC 9/11 Public Portal Document

TEM Asbestos (air) Count Sheet

Client Name:	ATC	**Volume (liters):**	1300
Lab Group #:	5901	**Filter Type / Filter Area:**	MCE 385 mm²
Lab Sample #:	20	**Grid Opening Size:**	0.01124
Client Sample #:	20 -	**Area Examined:**	0.06744 mm²
GRID BOX:	542	**Magnification:**	20,000
GRID ID:	9E10BA	**Accelerating Voltage:**	100 KeV
# Grid Openings:	6	**Analysis Date:**	11/16/01

Analysis Performed By: RP
ROMAN PEYSAKHOV

GO. No	GO. Coord	Structure No	Structure Type F	B	C	M	Length >=05 µ <5µ	Length >=5µ	ID of Structure N or √ Chrys	Amphibole	Nonasb	Ambig/ND	EDS (Nonadb Elements)
1	X2	NSD											
2	Q3	"											
3	J2	"											
4	F9	"											
5	F9	"											
6	K9	"											

Struct = > 0.5µ > 5:1 Aspect Ratio

√= Positive diffraction pattern properties conforming to laboratory identification criteria observed

√= EDS spectrum conforming to laboratory identification criteria observed

F = Single Fiber
B = Bundle (<3 fibers <1 fiber diameter apart
C = Cluster (>3 Intersections)
M = Matrix
NSD = No Structures Detected

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

AMPHIBOLES
Amosite
Crocidolite
Anthophyllite
Tremolite
Actinolite

Totals

	F	B	C	M	>5µ
Chrysotile					
Amphibole					
Ambiguous					
Non-Asbestos					
Non-Identified					

NYC-WTC_000124170

NYC 9/11 Public Portal Document

AIR MONITORING DATA AND CHAIN OF CUSTODY FORM

ATC ASSOCIATES INC.

Page _____ of _____

TURNAROUND TIME

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

5901 20122 64227-64248

PROJECT INFORMATION

Client:	2. Project Name	3. Project #	4. Project Monitor:	4c. Rotameter Number:
[illegible] Realty PL	2a. Project Address: 105 Beaver PL Diary	3a. Task #	4a. Air Sampler:	[illegible] 32

Date:	6. Abatement Location:	7. ☐ PCM (0.8 micron MCE)	8. ☐ TEM (0.45 micron MCE)	9. Type:
1.15.01		Cassette/Filter Manufacture: X Lot # _____	Cassette/Filter Manufacture: MAT Lot # 00265916	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 12a. IWA	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	14b. Avg	15. Total Air Vol. (liters)	16. # Fibers/Fields Minus Blank	17. Fiber Conc. F/CC
B-1				Field Blank									
B-2				Field Blank									
1				AP-1 #1	1230	1440	130	[illegible]			3001		
2				AP-1 #1	1235	1445	130	[illegible]			[illegible]		
3				AP-1 #1	1240	1450	130	[illegible]			1300		
4				AP-1 #1	1245	1455	130	[illegible]			[illegible]		
5				AP-1 #1	1250	1500	130	[illegible]			1300		
6				AP-1 #1	1253	1503	130	[illegible]			1300		

PII

CHAIN OF CUSTODY

	18. Relinquished By:	19. Received By:	20. Date:	21. Time:
	[illegible]			
I		JD	11/16/01	8am
II				

26. ATC Project Manager: Ted Burkhardt

27. Result To: From Lark Realty

Beeper/Phone #'s _____

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

22. Lab Name: ATC-TEM	23. Date:	24. Time:
a. Analyzed By: RRy	11.16	14:50
b. QC By:		
c. Lab Batch #:		

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

28. Comments:

Analysis Methodology
PCM - NIOSH 7400A
TEM - AHERA 6

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

NY-1 (1/01)

NYC-WTC_000124171

NYC 9/11 Public Portal Document

AIR MONITORING DATA AND CHAIN OF CUSTODY FORM

ATC ASSOCIATES INC.

Page _____ of _____

TURNAROUND TIME

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

PROJECT INFORMATION

5 pic 1

1. Client:	2. Project Name	3. Project #	4. Project Monitor:	4c. Rotameter Number:
125 Reador PL	2a. Project Address: 205 Reador PL NYNY	3a. Task #	4a. Air Sampler:	SD-152

Date:	6. Abatement Location:	7. ☐ PCM (0.8 micron MCE)	8. ☐ TEM (0.45 micron MCE)	9. Type:	
1 · 01		Cassette/Filter Manufacture: X Lot #	Cassette/Filter Manufacture: MAT Lot # 00265916	a. ☐ Background b. ☐ Pre-Abate	c. ☐ Abatement d. ☐ Post-Abate e. ☐ OSHA

f. ☐ Environmental
g. ☒ Ambient
h. ☐ Other

DAILY AIR SAMPLE RECORD

Sample I.D. Number	11. Pump Number	12. Sample Location 12a. IWA	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	14b. Avg	15. Total Air Vol. (liters)	16. # Fibers/Fields Minus Blank	17. Fiber Conc. F/CC
				Field Blank									
				Field Blank									
7				APT #	1256	1506	130	10	10	10	1300		
8				APT #	1258	1508	130	10	10	10	1300		
9				APT #	1303	1513	130	10	10	10	1300		
10				APT #	1305	1515	130	10	10	10	1300		
11				APT #	1525	1735	130	10	10	10	1300		
12				APT #	1550	1740	130	10	10	10	1300		

PII

CHAIN OF CUSTODY

	18. Relinquished By:	19. Received By:	20. Date:	21. Time:
I		JT	11/16/01	9am
II				

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

22. Lab Name: ATC-TEM	23. Date:	24. Time:
a. Analyzed By: RLly	11.16	14:50
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 6

26. ATC Project Manager:	27. Result To: Fred Burkhardt	28. Comments:
Fred Burkhardt	Beeper/Phone #'s	

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

NY-1 (1/01)

NYC-WTC_000124172

NYC 9/11 Public Portal Document

ATC ASSOCIATES INC.

AIR MONITORING DATA AND CHAIN OF CUSTODY FORM

Page _____ of _____

TURNAROUND TIME

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

PROJECT INFORMATION

5 C/C/

1. Client:	2. Project Name	3. Project #	4. Project Monitor:	4c. Rotameter Number:
225 Rector PL	225 Rector PL NYNY	09622-15	Fine Analysis/Quality	SD-152
	2a. Project Address	3a. Task #	4a. Air Sampler:	

5. Date:	6. Abatement Location:	7. ☐ PCM (0.8 micron MCE)	8. ☐ TEM (0.45 micron MCE)	9. Type:
11/ 01		Cassette/Filter Manufacture X	Cassette/Filter Manufacture MAT	a. ☐ Background b. ☐ Pre-Abate c. ☐ Abatement d. ☐ Post-Abate e. ☐ OSHA f. ☐ Environmental g. ☒ Ambient h. ☐ Other
		Lot #	Lot # 00265916	

DAILY AIR SAMPLE RECORD

10. Sample I.D. Number	11. Pump Number	12. Sample Location 12a. IWA	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	14b. Avg	15. Total Air Vol. (liters)	16. # Fibers/Fields Minus Blank	17. Fiber Conc. F/CC
				Field Blank									
				Field Blank									
13				APT #	1533	1743	130	10	10	10	1300		
14				APT #	1538	1748	130	10	10	10	1300		
15				APT #	1540	1750	130	10	10	10	1300		
16				APT #	1543	1753	130	10	10	10	1300		
17				APT #	1545	1755	130	10	10	10	1300		
18				APT #	1547	1757	130	10	10	10	1300		

PII

CHAIN OF CUSTODY

18. Relinquished By:	19. Received By:	20. Date:	21. Time:
I	JZ	11/6/01	Sunday
II			

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

22. Lab Name: ATC-TEM	23. Date:	24. Time:
a. Analyzed By: RDy	11.16	14:50
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 6

26. ATC Project Manager: Fred Berkhardt

27. Result To: Fred Berkhardt
Beeper/Phone #'s _____

28. Comments:

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

NY-1 (1/01)

NYC-WTC_00012417

NYC 9/11 Public Portal Document

ATC ASSOCIATES INC.

AIR MONITORING DATA AND CHAIN OF CUSTODY FORM

Page _____ of _____

TURNAROUND TIME

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

PROJECT INFORMATION

5901

1. Client:	2. Project Name	3. Project #	4. Project Monitor:	4c. Rotameter Number:
295 Pearl St.	2a. Project Address: 295 Pearl St. NYNY	3a. Task #	4a. Air Sampler:	SD-50

5. Date:	6. Abatement Location:	7. ☐ PCM (0.8 micron MCE)	8. ☒ TEM (0.45 micron MCE)	9. Type:	
11.5.01		Cassette/Filter Manufacture: X	Cassette/Filter Manufacture: MAI	a. ☐ Background	c. ☐ Abatement
		Lot #: X	Lot #: 916	b. ☐ Pre-Abate	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 12a. IWA	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	14b. Avg	15. Total Air Vol. (liters)	16. # Fibers/Fields Minus Blank	17. Fiber Conc. F/CC
				Field Blank									
				Field Blank									
19				XH4 H	1549	1759	30	10	10	10	1300		
20				XH4 #	1551	1801	130	10	10	10	1300		

PII

CHAIN OF CUSTODY

	18. Relinquished By:	19. Received By:	20. Date:	21. Time:
I	[illegible]			
II		JD	11/16/01	8 [illegible]
III				

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

22. Lab Name: ATC-TEM	23. Date:	24. Time:
a. Analyzed By: RDy	11.16	14:50
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: Fred Pust Hafly

28. Comments:

NYC 9/11 Public Portal Document

ATC ASSOCIATES INC.

Project Memorandum

Subject: 225 Rector Place

Re: Ambient Air Sampling

To: Peter Hoyle
Related Management

From: Fred Burkhardt

Date: November 19, 2001

On October 31, 2001, ATC collected one ambient air sample in each of the apartments listed below, one sample in five common areas (hallways) of the building and five outdoor samples, to ascertain the presence or absence of airborne asbestos. 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.

Apartments sampled are identified in the following table.

Floor	Apartments	Floor	Apartments
Penthouse	PII	11	PII
23		10	
22		9	
21		8	
20		7	
19		6	
18		5	
17		4	
16		3	
15		2	
14		1	
12			

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/mm^2) 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 project.

Based upon analytical sample results for all samples recording levels 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. If you have any questions or require additional explaination of the information presented please do not hesitate to call me at 212-353-8280.

Thank You.

NYC 9/11 Public Portal Document

ATC ASSOCIATES INC.

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

10

November 1, 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. 5802:

Client: Park Place
Project Name: 225 Rector Place, NY, NY
Location: Various Sites
Samples received: 11/01/01

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 document, no asbestos structures were detected in any of the twenty-six ambient samples submitted from the site. MMI TEM cassettes, Lot No. 98117167, were used.

Results reported as Struct/cc are a function of air volume collected in the field and are, as such, not verifiable by this laboratory. This report may be reproduced only in its entirety and not without prior permission of this laboratory. If post-abatement inside samples pass, the response action may be considered to have been completed. The analyses were supervised by Dr. Michael A. Gorycki, Director of Electron Microscopy.

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

Very truly yours,

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

NYC 9/11 Public Portal Document

ATC Associates Inc.
104 East 25 Street
New York, NY 10010
TEL: (212) 353-8280 FAX: (212) 353-8306

FACSIMILE TELECOPY TRANSMISSION

To: F. Burkhard
ATC Associates Inc

Fax #: (212) 353-8306

Date: Thursday, November 01, 2001

Time: 11:36:39 AM

Comments:

From: ROMAN PEYSAKHOV

ATC Group #: 5802

Client Project: Parc Plase
225 Rector Street

Number of Pages: _____

NYC 9/11 Public Portal Document

ATC Associates

104 East 25 Street, New York, NY 10010

Phone: (212) 353-8280 Fax: (212) 353-8306

Attn: F. Burkhard
ATC Associates Inc
104 East 25th Street
New York NY 10010

Fax: (212) 353-8306 **Phone:** (212) 353-8280

Project: Parc Plase
225 Rector Street

Received: 11/1/01 8:00:00 AM

ATC Group #: 5802

Analysis Date: 11/1/01

Asbestos Fiber Analysis by Transmission Electron Microscopy (TEM) Performed by EPA 40 CFR Part 763 Final Rule (AHERA)

Sample	Volume	Area Analyzed	Non Asb	Asbestos Type(s)	Structures 0.5μ-5	Structures 5μ	Analytical Sensitivity (S/cc)	Asbestos Concetration (S/mm²)	Asbestos Concetration (S/cc)	Notes
4 - 5802 -1	1300.00	0.0674	0	None Detected	0	0	0.0044	<14.83	<0.0044	
5 - 5802 -2	1300.00	0.0674	0	None Detected	0	0	0.0044	<14.83	<0.0044	
6 - 5802 -3	1300.00	0.0674	0	None Detected	0	0	0.0044	<14.83	<0.0044	
7 - 5802 -4	1300.00	0.0674	0	None Detected	0	0	0.0044	<14.83	<0.0044	
8 - 5802 -5	1300.00	0.0674	0	None Detected	0	0	0.0044	<14.83	<0.0044	
9 - 5802 -6	1300.00	0.0674	0	None Detected	0	0	0.0044	<14.83	<0.0044	
10 - 5802 -7	1300.00	0.0674	0	None Detected	0	0	0.0044	<14.83	<0.0044	
11 - 5802 -8	1300.00	0.0674	0	None Detected	0	0	0.0044	<14.83	<0.0044	

ROMAN PEYSAKHOV
Analyzed by: RRey

MICHAEL A. GORYCKI, Ph.D.
Approved by:

Disclaimer: The laboratory is not responsible for data reported in structures/cc, which is dependent on volume collected by non-laboratory personnel. This lab is only responsible for data reported in structures/mm². This report may not be reproduced, except in full, without written approval by ATC Associates Inc. This report may not be used to claim product endorsement by NVLAP or any other agency of the U.S. Government. This reports relates only to the samples reported above. Quality control data (including 95% confidence limits and laboratory and analysis' accuracy and precision) is available upon request.

Accredited for NVLAP PLM/TEM #101187-0, NY State ELAP #10879

NYC 9/11 Public Portal Document

Attn: F. Burkhard
ATC Associates Inc
104 East 25th Street
New York NY 10010
Fax: (212) 353-8306 **Phone:** (212) 353-8280

Received: 11/1/01 8:00:00 AM
ATC Group #: 5802
Analysis Date: 11/1/01

Project: Parc Plase
225 Rector Street

Asbestos Fiber Analysis by Transmission Electron Microscopy (TEM) Performed by EPA 40 CFR Part 763 Final Rule (AHERA)

Sample	*Volume*	*Area Analyzed*	*Non Asb*	*Asbestos Type(s)*	*Structures* 0.5µ-5	*Structures* 5µ	*Analytical Sensitivity (S/cc)*	*Asbestos Concetration (S/mm²)*	*Asbestos Concetration (S/cc)*	*Notes*
12 - 5802 -9	1300.00	0.0674	0	None Detected	0	0	0.0044	<14.83	<0.0044	
13 - 5802 -10	1300.00	0.0674	0	None Detected	0	0	0.0044	<14.83	<0.0044	
14 - 5802 -11	1300.00	0.0674	0	None Detected	0	0	0.0044	<14.83	<0.0044	
15 - 5802 -12	1300.00	0.0674	0	None Detected	0	0	0.0044	<14.83	<0.0044	
16 - 5802 -13	1300.00	0.0674	0	None Detected	0	0	0.0044	<14.83	<0.0044	
17 - 5802 -14	1300.00	0.0674	0	None Detected	0	0	0.0044	<14.83	<0.0044	
18 - 5802 -15	1300.00	0.0674	0	None Detected	0	0	0.0044	<14.83	<0.0044	
19 - 5802 -16	1300.00	0.0674	0	None Detected	0	0	0.0044	<14.83	<0.0044	
20 - 5802 -17	1300.00	0.0674	0	None Detected	0	0	0.0044	<14.83	<0.0044	
21 - 5802 -18	1300.00	0.0674	0	None Detected	0	0	0.0044	<14.83	<0.0044	

ROMAN PEYSAKHOV
Analyzed by: RPey

MICHAEL A. GORYCKI, Ph.D.
Approved by:

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TEM Asbestos (air) Count Sheet

Client Name:	ATC	**Volume (liters):**	1300
Lab Group #:	5802	**Filter Type / Filter Area:**	MCE 385 mm²
Lab Sample #:	1	**Grid Opening Size:**	0.01124
Client Sample #:	4 -	**Area Examined:**	0.06744 mm²
GRID BOX:	503	**Magnification:**	20,000
GRID ID:	3AC	**Accelerating Voltage:**	100 KeV
# Grid Openings:	6		

Analysis Performed By: RRuy
ROMAN PEYSAKHOV

GO. No	GO. Coord	Structure No	Structure Type F	B	C	M	Length >=05 µ <5µ	Length >=5µ	ID of Structure N or √ Chrys	Amphibole	Nonasb	Ambig/ND	EDS (Nonadb Elements)
1	Q9	NSD											
2	J3	11											
3	I3	11											
4	X2	11											
5	Q2	11											
6	J2	11											

Struct = > 0.5µ > 5:1 Aspect Ratio

√= Positive diffraction pattern properties conforming to laboratory identification criteria observed

√= EDS spectrum conforming to laboratory identification criteria observed

F = Single Fiber
B = Bundle (<3 fibers <1 fiber diameter apart
C = Cluster (>3 Intersections)
M = Matrix
NSD = No Structures Detected

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

AMPHIBOLES
Amosite
Crocidolite
Anthophyllite
Tremolite
Actinolite

Totals

	F	B	C	M	>5µ
Chrysotile					
Amphibole					
Ambiguous					
Non-Asbestos					
Non-Identified					

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TEM Asbestos (air) Count Sheet

Client Name:	ATC	**Volume (liters):**	1300
Lab Group #:	5802	**Filter Type / Filter Area:**	MCE 385 mm²
Lab Sample #:	5	**Grid Opening Size:**	0.01124
Client Sample #:	8 - .	**Area Examined:**	0.06744 mm²
GRID BOX:	503	**Magnification:**	20,000
GRID ID:	4HJ	**Accelerating Voltage:**	100 KeV
# Grid Openings:	6		

Analysis Performed By: RP

ROMAN PEYSAKHOV

GO. No	GO. Coord	Structure No	Structure Type F	B	C	M	Length >=05 µ <5µ	Length >=5µ	ID of Structure N or √ Chrys	Amphibole	Nonasb	Ambig/ND	EDS (Nonadb Elements)
1	V2	NSD											
2	P1	11											
3	I2	11											
4	V2	11											
5	P2	11											
6	I2	11											

Struct = > 0.5µ .> 5:1 Aspect Ratio

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√= EDS spectrum conforming to laboratory identification criteria observed

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<10% particulate coverage >50% coverage ate least 20 unfolded or overlapped grid squares <5% holes or opaque areas

AMPHIBOLES
Amosite
Crocidolite
Anthophyllite
Tremolite
Actinolite

Totals

	F	B	C	M	>5µ
Chrysotile					
Amphibole					
Ambiguous					
Non-Asbestos					
Non-Identified					

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TEM Asbestos (air) Count Sheet

Client Name:	ATC	**Volume (liters):**	1300
Lab Group #:	5802	**Filter Type / Filter Area:**	MCE 385 mm²
Lab Sample #:	7	**Grid Opening Size:**	0.01124
Client Sample #:	10 -	**Area Examined:**	0.06744 mm²
GRID BOX:	503	**Magnification:**	20,000
GRID ID:	5E2	**Accelerating Voltage:**	100 KeV
# Grid Openings:	6		

Analysis Performed By: RP
ROMAN PEYSAKHOV

GO. No	GO. Coord	Structure No	Structure Type F	B	C	M	Length >=05 µ <5µ	>=5µ	ID of Structure N or √ Chrys	Amphibole	Nonasb	Ambig/ND	EDS (Nonadb Elements)
5E 1	IZ	NSD											
3	PZ	11											
3	QZ	4											
4	VZ	11											
5	PZ	11											
5P 6	IZ	11											

Struct = > 0.5µ .> 5:1 Aspect Ratio

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√= EDS spectrum conforming to laboratory identification criteria observed

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M = Matrix
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<50% undissolved filter, overlapped or folded
<10% particulate coverage >50% coverage ate least 20 unfolded or overlapped grid squares <5% holes or opaque areas

AMPHIBOLES
Amosite
Crocidolite
Anthophyllite
Tremolite
Actinolite

Totals

	F	B	C	M	>5µ
Chrysotile					
Amphibole					
Ambiguous					
Non-Asbestos					
Non-Identified					

NYC 9/11 Public Portal Document

TEM Asbestos (air) Count Sheet

Client Name:	ATC	**Volume (liters):**	1300
Lab Group #:	5802	**Filter Type / Filter Area:**	MCE 385 mm²
Lab Sample #:	8	**Grid Opening Size:**	0.01124
Client Sample #:	11 -	**Area Examined:**	0.06744 mm²
GRID BOX:	503	**Magnification:**	20,000
GRID ID:	5I6B	**Accelerating Voltage:**	100 KeV
# Grid Openings:	6		

Analysis Performed By: RP
ROMAN PEYSAKHOV

GO. No	GO. Coord	Structure No	Structure Type F	B	C	M	Length >=05 µ <5µ	Length >=5µ	ID of Structure N or √ Chrys	Amphibole	Nonasb	Ambig/ND	EDS (Nonadb Elements)
1	K2	NSD											
2	K2	11											
3	I2	11											
4	I2	11											
5	P2	4											
6	V2	11											

Struct = > 0.5µ > 5:1 Aspect Ratio

√= Positive diffraction pattern properties conforming to laboratory identification criteria observed

√= EDS spectrum conforming to laboratory identification criteria observed

F = Single Fiber
B = Bundle (<3 fibers <1 fiber diameter apart
C = Cluster (>3 Intersections)
M = Matrix
NSD = No Structures Detected

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

AMPHIBOLES
Amosite
Crocidolite
Anthophyllite
Tremolite
Actinolite

Totals

	F	B	C	M	>5µ
Chrysotile					
Amphibole					
Ambiguous					
Non-Asbestos					
Non-Identified					

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TEM Asbestos (air) Count Sheet

it Name: ATC
Group #: 5802
Sample #: 9
it Sample #: 12 -
D BOX: 503
D ID: G2F
id Openings: 6

Volume (liters): 1300
Filter Type / Filter Area: MCE 385 mm²
Grid Opening Size: 0.01124
Area Examined: 0.06744 mm²
Magnification: 20,000
Accelerating Voltage: 100 KeV

Analysis Performed By: RP
ROMAN PEYSAKHOV

O. Coord	Structure No	Structure Type F	B	C	M	Length >=05 µ <5µ	>=5µ	ID of Structure N or √ Chrys	Amphibole	Nonasb	Ambig/ND	EDS (Nonadb Elements)
J2	NSD											
Q2	4											
X2	11											
X3	11											
Q3	1											
J3	11											

ıtruct = > 0.5µ > 5:1 Aspect Ratio

/ = Positive diffraction pattern properties conforming to aboratory identification criteria observed

√ = EDS spectrum conforming to laboratory dentification criteria observed

F = Single Fiber
B = Bundle (<3 fibers <1 fiber diameter apart
C = Cluster (>3 Intersections)
M = Matrix
NSD = No Structures Detected

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

AMPHIBOLES
Amosite
Crocidolite
Anthophyllite
Tremolite
Actinolite

Totals

	F	B	C	M	>5µ
Chrysotile					
Amphibole					
Ambiguous					
Non-Asbestos					
Non-Identified					

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TEM Asbestos (air) Count Sheet

Client Name:	ATC	**Volume (liters):**	1300
Lab Group #:	5802	**Filter Type / Filter Area:**	MCE 385 mm²
Lab Sample #:	12	**Grid Opening Size:**	0.01124
Client Sample #:	15 -	**Area Examined:**	0.06744 mm²
GRID BOX:	503	**Magnification:**	20,000
GRID ID:	7ER	**Accelerating Voltage:**	100 KeV
# Grid Openings:	6		

Analysis Performed By: RP
ROMAN PEYSAKHOV

GO. No	GO. Coord	Structure No	Structure Type F	B	C	M	Length >=05 µ <5µ	Length >=5µ	ID of Structure N or √ Chrys	Amphibole	Nonasb	Ambig/ND	EDS (Nonadb Elements)
1	N2	NSD											
2	P2	"											
3	Q2	"											
4	I2	"											
5	P2	"											
6	V2	"											

Struct = > 0.5µ > 5:1 Aspect Ratio

√= Positive diffraction pattern properties conforming to laboratory identification criteria observed

√= EDS spectrum conforming to laboratory identification criteria observed

F = Single Fiber
B = Bundle (<3 fibers <1 fiber diameter apart
C = Cluster (>3 Intersections)
M = Matrix
NSD = No Structures Detected

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

AMPHIBOLES
Amosite
Crocidolite
Anthophyllite
Tremolite
Actinolite

Totals

	F	B	C	M	>5µ
Chrysotile					
Amphibole					
Ambiguous					
Non-Asbestos					
Non-Identified					

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TEM Asbestos (air) Count Sheet

Client Name:	ATC	**Volume (liters):**	1300
Lab Group #:	5802	**Filter Type / Filter Area:**	MCE 385 mm²
Lab Sample #:	14	**Grid Opening Size:**	0.01124
Client Sample #:	17 -	**Area Examined:**	0.06744 mm²
GRID BOX:	503	**Magnification:**	20,000
GRID ID:	XAF	**Accelerating Voltage:**	100 KeV
# Grid Openings:	6		

Analysis Performed By: RP
ROMAN PEYSAKHOV

GO. No	GO. Coord	Structure No	Structure Type F	B	C	M	Length >=05 µ <5µ	Length >=5µ	ID of Structure N or √ Chrys	Amphibole	Nonasb	Ambig/ND	EDS (Nonadb Elements)
20	1 Q2	NSD											
	2 SZ	4											
	3 EZ	4											
	4 SZ	11											
	5 Q2	11											
2F	6 XZ	4											

Struct = > 0.5µ > 5:1 Aspect Ratio

√= Positive diffraction pattern properties conforming to laboratory identification criteria observed

√= EDS spectrum conforming to laboratory identification criteria observed

F = Single Fiber
B = Bundle (<3 fibers <1 fiber diameter apart
C = Cluster (>3 Intersections)
M = Matrix
NSD = No Structures Detected

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

AMPHIBOLES
Amosite
Crocidolite
Anthophyllite
Tremolite
Actinolite

Totals

	F	B	C	M	>5µ
Chrysotile					
Amphibole					
Ambiguous					
Non-Asbestos					
Non-Identified					

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TEM Asbestos (air) Count Sheet

Client Name:	ATC	**Volume (liters):**	1300
Lab Group #:	5802	**Filter Type / Filter Area:**	MCE 385 mm²
Lab Sample #:	15	**Grid Opening Size:**	0.01124
Client Sample #:	18 -	**Area Examined:**	0.06744 mm²
GRID BOX:	503	**Magnification:**	20,000
GRID ID:	2HJ	**Accelerating Voltage:**	100 KeV
# Grid Openings:	6		

Analysis Performed By: RP
ROMAN PEYSAKHOV

GO. No	GO. Coord	Structure No	Structure Type F	B	C	M	Length >=05 µ <5µ	>=5µ	ID of Structure N or √ Chrys	Amphibole	Nonasb	Ambig/ND	EDS (Nonadb Elements)
2H 1	Q2	NSD											
2	J2	"											
3	I2	"											
4	I2	"											
5	P2	"											
6	V2	"											
2J													

Struct = > 0.5µ > 5:1 Aspect Ratio

√= Positive diffraction pattern properties conforming to laboratory identification criteria observed

√= EDS spectrum conforming to laboratory identification criteria observed

F = Single Fiber
B = Bundle (<3 fibers <1 fiber diameter apart
C = Cluster (>3 Intersections)
M = Matrix
NSD = No Structures Detected

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

AMPHIBOLES
Amosite
Crocidolite
Anthophyllite
Tremolite
Actinolite

Totals

	F	B	C	M	>5µ
Chrysotile					
Amphibole					
Ambiguous					
Non-Asbestos					
Non-Identified					

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TEM Asbestos (air) Count Sheet

Client Name:	ATC	**Volume (liters):**	1300
Lab Group #:	5802	**Filter Type / Filter Area:**	MCE 385 mm²
Lab Sample #:	16	**Grid Opening Size:**	0.01124
Client Sample #:	19 -	**Area Examined:**	0.06744 mm²
GRID BOX:	503	**Magnification:**	20,000
GRID ID:	9AC	**Accelerating Voltage:**	100 KeV
# Grid Openings:	6		

Analysis Performed By: RP

ROMAN PEYSAKHOV

GO. No	GO. Coord	Structure No	Structure Type F	B	C	M	Length >=05 µ <5µ	>=5µ	ID of Structure N or √ Chrys	Amphibole	Nonasb	Ambig/ND	EDS (Nonadb Elements)
9A	1 QZ	NSD											
	2 PZ	11											
	3 IZ	11											
	4 QZ	11											
	5 IZ	11											
9C	6 PZ	11											

Struct = > 0.5µ > 5:1 Aspect Ratio

√= Positive diffraction pattern properties conforming to laboratory identification criteria observed

√= EDS spectrum conforming to laboratory identification criteria observed

F = Single Fiber

B = Bundle (<3 fibers <1 fiber diameter apart

C = Cluster (>3 intersections)

M = Matrix

NSD = No Structures Detected

Grid acceptance:

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

AMPHIBOLES

Amosite
Crocidolite
Anthophyllite
Tremolite
Actinolite

Totals

	F	B	C	M	>5µ
Chrysotile					
Amphibole					
Ambiguous					
Non-Asbestos					
Non-Identified					

NYC 9/11 Public Portal Document

TEM Asbestos (air) Count Sheet

Client Name:	ATC	**Volume (liters):**	1300
Lab Group #:	5802	**Filter Type / Filter Area:**	MCE 385 mm²
Lab Sample #:	17	**Grid Opening Size:**	0.01124
Client Sample #:	20 -	**Area Examined:**	0.06744 mm²
GRID BOX:	503	**Magnification:**	20,000
GRID ID:	9E6	**Accelerating Voltage:**	100 KeV
# Grid Openings:	6		

Analysis Performed By: RP
ROMAN PEYSAKHOV

GO. No	GO. Coord	Structure No	Structure Type F	B	C	M	Length >=05 µ <5µ	Length >=5µ	ID of Structure N or √ Chrys	Amphibole	Nonasb	Ambig/ND	EDS (Nonadb Elements)
1E 1	V2	N80											
3	P2	4											
3	I2	4											
4	P9	11											
5	I8	12											
9G 6	J2	11											

Struct = > 0.5µ > 5:1 Aspect Ratio

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√= EDS spectrum conforming to laboratory identification criteria observed

F = Single Fiber
B = Bundle (<3 fibers <1 fiber diameter apart
C = Cluster (>3 intersections)
M = Matrix
NSD = No Structures Detected

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

AMPHIBOLES
Amosite
Crocidolite
Anthophyllite
Tremolite
Actinolite

Totals

	F	B	C	M	>5µ
Chrysotile					
Amphibole					
Ambiguous					
Non-Asbestos					
Non-Identified					

NYC 9/11 Public Portal Document

TEM Asbestos (air) Count Sheet

Client Name:	ATC	**Volume (liters):**	1300
Lab Group #:	5802	**Filter Type / Filter Area:**	MCE 385 mm²
Lab Sample #:	18	**Grid Opening Size:**	0.01124
Client Sample #:	21 -	**Area Examined:**	0.06744 mm²
GRID BOX:	503	**Magnification:**	20,000
GRID ID:	9 L AB	**Accelerating Voltage:**	100 KeV
# Grid Openings:	6		

Analysis Performed By: RP
ROMAN PEYSAKHOV

GO. No	GO. Coord	Structure No	Structure Type F	B	C	M	Length >=05 µ <5µ	Length >=5µ	ID of Structure N or √ Chrys	Amphibole	Nonasb	Ambig/ND	EDS (Nonadb Elements)
1	R4	NSD											
2	K2	4											
3	I2	11											
4	Q2	11											
5	J3	11											
6	I3	11											

Struct = > 0.5µ .> 5:1 Aspect Ratio

√= Positive diffraction pattern properties conforming to laboratory identification criteria observed

√= EDS spectrum conforming to laboratory identification criteria observed

F = Single Fiber
B = Bundle (<3 fibers <1 fiber diameter apart
C = Cluster (>3 Intersections)
M = Matrix
NSD = No Structures Detected

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

AMPHIBOLES
Amosite
Crocidolite
Anthophyllite
Tremolite
Actinolite

Totals

	F	B	C	M	>5µ
Chrysotile					
Amphibole					
Ambiguous					
Non-Asbestos					
Non-Identified					

NYC 9/11 Public Portal Document

TEM Asbestos (air) Count Sheet

Client Name:	ATC	**Volume (liters):**	1300
Lab Group #:	5802	**Filter Type / Filter Area:**	MCE 385 mm²
Lab Sample #:	20	**Grid Opening Size:**	0.01124
Client Sample #:	24 -	**Area Examined:**	0.06744 mm²
GRID BOX:	503	**Magnification:**	20,000
GRID ID:	10HJ	**Accelerating Voltage:**	100 KeV
# Grid Openings:	6		

Analysis Performed By: RP
ROMAN PEYSAKHOV

GO.		Structure	Structure Type				Length		ID of Structure N or √				EDS
No	Coord	No	F	B	C	M	>=05 µ <5µ	>=5µ	Chrys	Amphibole	Nonasb	Ambig/ND	(Nonadb Elements)
10H 1	RZ	N80											
2	QZ	"											
3	PZ	"											
4	QZ	"											
5	JZ	"											
6	IZ	"											
10J													

Struct = > 0.5µ .> 5:1 Aspect Ratio

√= Positive diffraction pattern properties conforming to laboratory identification criteria observed

√= EDS spectrum conforming to laboratory identification criteria observed

F = Single Fiber
B = Bundle (<3 fibers <1 fiber diameter apart
C = Cluster (>3 Intersections)
M = Matrix
NSD = No Structures Detected

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

AMPHIBOLES
Amosite
Crocidolite
Anthophyllite
Tremolite
Actinolite

Totals

	F	B	C	M	>5µ
Chrysotile					
Amphibole					
Ambiguous					
Non-Asbestos					
Non-Identified					

NYC 9/11 Public Portal Document

TEM Asbestos (air) Count Sheet

Client Name:	ATC	**Volume (liters):**	1300
Lab Group #:	5802	**Filter Type / Filter Area:**	MCE 385 mm²
Lab Sample #:	21	**Grid Opening Size:**	0.01124
Client Sample #:	25 -	**Area Examined:**	0.06744 mm²
GRID BOX:	503	**Magnification:**	20,000
GRID ID:	1AN	**Accelerating Voltage:**	100 KeV
# Grid Openings:	6		

Analysis Performed By: RP
ROMAN PEYSAKHOV

GO. No	GO. Coord	Structure No	Structure Type F	B	C	M	Length >=05 µ <5µ	Length >=5µ	ID of Structure N or √ Chrys	Amphibole	Nonasb	Ambig/ND	EDS (Nonadb Elements)
IL 1	R2	NSD											
2	R2	〃											
3	J2	〃											
V 4	V2	〃											
5	P2	〃											
IN 6	J2	〃											

Struct = > 0.5µ > 5:1 Aspect Ratio

√= Positive diffraction pattern properties conforming to laboratory identification criteria observed

√= EDS spectrum conforming to laboratory identification criteria observed

F = Single Fiber
B = Bundle (<3 fibers <1 fiber diameter apart
C = Cluster (>3 Intersections)
M = Matrix
NSD = No Structures Detected

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

AMPHIBOLES
Amosite
Crocidolite
Anthophyllite
Tremolite
Actinolite

Totals

	F	B	C	M	>5µ
Chrysotile					
Amphibole					
Ambiguous					
Non-Asbestos					
Non-Identified					

NYC 9/11 Public Portal Document

TEM Asbestos (air) Count Sheet

Client Name:	ATC	**Volume (liters):**	1300
Lab Group #:	5802	**Filter Type / Filter Area:**	MCE 385 mm²
Lab Sample #:	22	**Grid Opening Size:**	0.01124
Client Sample #:	26 -	**Area Examined:**	0.06744 mm²
GRID BOX:	503	**Magnification:**	20,000
GRID ID:	1PR	**Accelerating Voltage:**	100 KeV
# Grid Openings:	6		

Analysis Performed By: RP
ROMAN PEYSAKHOV

GO. No	GO. Coord	Structure No	Structure Type F	B	C	M	Length >=05 µ <5µ	Length >=5µ	ID of Structure N or √ Chrys	Amphibole	Nonasb	Ambig/ND	EDS (Nonadb Elements)
1P 1	E8	NSO											
2	J8	"											
3	P1	"											
4	Q2	"											
5	J2	"											
6	E2	"											
1R													

Struct = > 0.5µ > 5:1 Aspect Ratio

√= Positive diffraction pattern properties conforming to laboratory identification criteria observed

√= EDS spectrum conforming to laboratory identification criteria observed

F = Single Fiber
B = Bundle (<3 fibers <1 fiber diameter apart
C = Cluster (>3 Intersections)
M = Matrix
NSD = No Structures Detected

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

AMPHIBOLES
Amosite
Crocidolite
Anthophyllite
Tremolite
Actinolite

Totals

	F	B	C	M	>5µ
Chrysotile					
Amphibole					
Ambiguous					
Non-Asbestos					
Non-Identified					

NYC 9/11 Public Portal Document

TEM Asbestos (air) Count Sheet

Client Name:	ATC	**Volume (liters):**	1300
Lab Group #:	5802	**Filter Type / Filter Area:**	MCE 385 mm²
Lab Sample #:	23	**Grid Opening Size:**	0.01124
Client Sample #:	27	**Area Examined:**	0.06744 mm²
GRID BOX:	593	**Magnification:**	20,000
GRID ID:	17ZK	**Accelerating Voltage:**	100 KeV
# Grid Openings:	6		

Analysis Performed By: RP
ROMAN PEYSAKHOV

GO. No	GO. Coord	Structure No	Structure Type F	B	C	M	Length >=05 µ <5µ	Length >=5µ	ID of Structure N or √ Chrys	Amphibole	Nonasb	Ambig/ND	EDS (Nonadb Elements)
1T 1	QZ	N80											
2	JZ	11											
3	EZ	11											
4	IZ	11											
5	JZ	11											
2K 6	QZ	11											

Struct = > 0.5µ .> 5:1 Aspect Ratio

√= Positive diffraction pattern properties conforming to laboratory identification criteria observed

√= EDS spectrum conforming to laboratory identification criteria observed

F = Single Fiber
B = Bundle (<3 fibers <1 fiber diameter apart
C = Cluster (>3 Intersections)
M = Matrix
NSD = No Structures Detected

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

AMPHIBOLES
Amosite
Crocidolite
Anthophyllite
Tremolite
Actinolite

Totals

	F	B	C	M	>5µ
Chrysotile					
Amphibole					
Ambiguous					
Non-Asbestos					
Non-Identified					

NYC 9/11 Public Portal Document

TEM Asbestos (air) Count Sheet

Client Name:	ATC	**Volume (liters):**	1300
Lab Group #:	5802	**Filter Type / Filter Area:**	MCE 385 mm²
Lab Sample #:	24	**Grid Opening Size:**	0.01124
Client Sample #:	28 -	**Area Examined:**	0.06744 mm²
GRID BOX:	503	**Magnification:**	20,000
GRID ID:	2M0	**Accelerating Voltage:**	100 KeV
# Grid Openings:	6		

Analysis Performed By: RP
ROMAN PEYSAKHOV

GO. No	GO. Coord	Structure No	Structure Type F	B	C	M	Length >=05 µ <5µ	Length >=5µ	ID of Structure N or √ Chrys	Amphibole	Nonasb	Ambig/ND	EDS (Nonadb Elements)
1	N2	N80											
2	P2	"											
3	Q2	"											
4	I2	"											
5	F2	"											
6	Q2	"											

Struct = > 0.5µ .> 5:1 Aspect Ratio

√= Positive diffraction pattern properties conforming to laboratory identification criteria observed

√= EDS spectrum conforming to laboratory identification criteria observed

F = Single Fiber
B = Bundle (<3 fibers <1 fiber diameter apart
C = Cluster (>3 Intersections)
M = Matrix
NSD = No Structures Detected

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

AMPHIBOLES
Amosite
Crocidolite
Anthophyllite
Tremolite
Actinolite

Totals

	F	B	C	M	>5µ
Chrysotile					
Amphibole					
Ambiguous					
Non-Asbestos					
Non-Identified					

NYC 9/11 Public Portal Document

TEM Asbestos (air) Count Sheet

Client Name:	ATC	**Volume (liters):**	1300
Lab Group #:	5802	**Filter Type / Filter Area:**	MCE 385 mm²
Lab Sample #:	25	**Grid Opening Size:**	0.01124
Client Sample #:	29 -	**Area Examined:**	0.06744 mm²
GRID BOX:	903	**Magnification:**	20,000
GRID ID:	2	**Accelerating Voltage:**	100 KeV
# Grid Openings:	6		

Analysis Performed By: RP

ROMAN PEYSAKHOV

GO. No	GO. Coord	Structure No	Structure Type F	B	C	M	Length >=05 µ <5µ	Length >=5µ	ID of Structure N or √ Chrys	Amphibole	Nonasb	Ambig/ND	EDS (Nonadb Elements)
28 1	QZ	NSD											
2	PZ	"											
3	NZ	"											
4	QZ	"											
5	JZ	"											
25 6	IZ	"											

Struct = > 0.5µ _> 5:1 Aspect Ratio

√= Positive diffraction pattern properties conforming to laboratory identification criteria observed

√= EDS spectrum conforming to laboratory identification criteria observed

F = Single Fiber

B = Bundle (<3 fibers <1 fiber diameter apart

C = Cluster (>3 intersections)

M = Matrix

NSD = No Structures Detected

Grid acceptance:

<50% undissolved filter, overlapped or folded

<10% particulate coverage >50% coverage ate least 20 unfolded or overlapped grid squares <5% holes or opaque areas

AMPHIBOLES

Amosite
Crocidolite
Anthophyllite
Tremolite
Actinolite

Totals

	F	B	C	M	>5µ
Chrysotile					
Amphibole					
Ambiguous					
Non-Asbestos					
Non-Identified					

NYC 9/11 Public Portal Document

TEM Asbestos (air) Count Sheet

Client Name:	ATC	**Volume (liters):**	1300
Lab Group #:	5802	**Filter Type / Filter Area:**	MCE 385 mm²
Lab Sample #:	26	**Grid Opening Size:**	0.01124
Client Sample #:	30 -	**Area Examined:**	0.06744 mm²
GRID BOX:	503	**Magnification:**	20,000
GRID ID:	3LN	**Accelerating Voltage:**	100 KeV
# Grid Openings:	6		

Analysis Performed By: RP
ROMAN PEYSAKHOV

GO. No	GO. Coord	Structure No	Structure Type F	B	C	M	Length >=05 µ <5µ	Length >=5µ	ID of Structure N or √ Chrys	Amphibole	Nonasb	Ambig/ND	EDS (Nonadb Elements)
3L 1	J2	NSD											
2	Q2	〃											
3	V2	〃											
4	E8	〃											
5	J8	〃											
3N 6	P9	〃											

Struct = > 0.5µ .> 5:1 Aspect Ratio

√= Positive diffraction pattern properties conforming to laboratory identification criteria observed

√= EDS spectrum conforming to laboratory identification criteria observed

F = Single Fiber
B = Bundle (<3 fibers <1 fiber diameter apart
C = Cluster (>3 Intersections)
M = Matrix
NSD = No Structures Detected

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

AMPHIBOLES
Amosite
Crocidolite
Anthophyllite
Tremolite
Actinolite

Totals

	F	B	C	M	>5µ
Chrysotile					
Amphibole					
Ambiguous					
Non-Asbestos					
Non-Identified					

NYC-WTC_000124197

NYC 9/11 Public Portal Document

VATC ASSOCIATES INC.

AIR MONITORING DATA AND CHAIN OF CUSTODY FORM

5802 26/30 62788-62817

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:
Parc Place	Parc Place		D Starr Soloway	HP-80
	2a. Project Address: 225 Rector Pl.	3a. Task #	4a. Air Sampler:	

Date:	6. Abatement Location:	7. ☐ PCM (0.8 micron MCE)	8. ☒ TEM (0.45 micron MCE)	9. Type:
13/01		Cassette/Filter Manufacture ____ Lot # ____	Cassette/Filter Manufacture SKC Lot # 117167	a. ☐ Background b. ☐ Pre-Abate c. ☐ Abatement d. ☐ Post-Abate e. ☐ OSHA f. ☐ Environmental g. ☒ Ambient h. ☐ Other

DAILY AIR SAMPLE RECORD

Sample I.D. Number	11. Pump Number	12. Sample Location 12a. IWA	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	14b. Avg	15. Total Air Vol. (liters)	16. # Fibers/Fields Minus Blank	17. Fiber Conc. F/CC
0202				Field Blank									
03				Field Blank									
04		X		Apt #	10:20	12:30	130	10.0	10.0	10	1300		
05		X		Apt #	10:25	12:35	130	10.0	10.0	10	1300		
06		X		Apt #	10:30	12:40	130	10.0	10.0	10	1300		
07		X		Apt #	10:35	12:45	130	10.0	10.0	10	1300		
08		X		Apt	10:40	12:50	130	10.0	10.0	10	1300		
09		X		Apt	10:55	13:05	130	10.0	10.0	10	1300		

PII

CHAIN OF CUSTODY

18. Relinquished By:	19. Received By:	20. Date:	21. Time:
I D Soloway			
II	JD	11/1/01	5:00
III			

26. ATC Project Manager: [illegible] 27. Result To: F. Burkhardt

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

22. Lab Name: ATC-TEM	23. Date:	24. Time:
a. Analyzed By: RRy	11.01	11:30
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

NYC-WTC_000124198

NYC 9/11 Public Portal Document

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

5802

1. Client:	2. Project Name:	3. Project #	4. Project Monitor:	4c. Rotameter Number:
Pare place	Pare Place		OStaiSolovey	HP X9
	2a. Project Address: 225 Rector St.	3a. Task #	4a. Air Sampler:	

5. Date:	6. Abatement Location:	7. ☐ PCM (0.8 micron MCE)	8. ☒ TEM (0.45 micron MCE)	9. Type:
03/01		Cassette/Filter Manufacture ____ Lot # ____	Cassette/Filter Manufacture ____ Lot # 98/117/617	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 12a. IWA	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	14b. Avg	15. Total Air Vol. (liters)	16. # Fibers/Fields Minus Blank	17. Fiber Conc. F/CC
				Field Blank									
				Field Blank									
10		X		Apt #	11:00	13:10	130	10.0	10.0	10	1300		
11		X		Apt #	11:05	13:15	130	10.0	10.0	10	1300		
12		X		Apt #	11:10	13:20	130	10.0	10.0	10	1300		
13		X		Apt #	11:15	13:25	130	10.0	10.0	10	1300		
14		X		Apt #	11:20	13:30	130	10.0	10.0	10	1300		
15		X		Apt #	11:25	13:35	130	10.0	10.0	10	1300		
16		X		Apt #	11:30	13:40	130	10.0	10.0	10	1300		

PII

CHAIN OF CUSTODY

	18. Relinquished By:	19. Received By:	20. Date:	21. Time:
I	O Solovey	JD	11/01/01	8 am
II				
III				

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

22. Lab Name: ATC-TEM	23. Date:	24. Time:
a. Analyzed By: RRuy	11.01	11:30
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: [illegible]

27. Result To: F Burkhardt

28. Comments:

NYC-WTC_000124199

NYC 9/11 Public Portal Document

ATC ASSOCIATES INC.

AIR MONITORING DATA AND CHAIN OF CUSTODY FORM

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

5802

PROJECT INFORMATION

1. Client:	2. Project Name	3. Project #	4. Project Monitor:	4c. Rotameter Number:
Parc Place	Parc Place		Oskar Solovey	HP-X9
	2a. Project Address: 225 Rector Pl	3a. Task #	4a. Air Sampler:	

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:
10/31/01			9/11/07	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 12a. IWA	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	14b. Avg	15. Total Air Vol. (liters)	16. # Fibers/Fields Minus Blank	17. Fiber Conc. F/CC
				Field Blank									
				Field Blank									
17				Hallway floor H	14:01	16:11	130	10.0	10.0	10	1300		
18				Hallway floor	14:07	16:17	130	10.0	10.0	10	1300		
19				Hallway floor	14:12	16:22	130	10.0	10.0	10	1300		
20				Hallway floo	14:17	16:27	130	10.0	10.0	10	1300		
21				Lobby Face	14:22	16:32	130	10.0	10.0	10	1300		
22				Apt #	14:27	16:37	130	10.0	10.0	10	1300		

PII

PII

CHAIN OF CUSTODY

	18. Relinquished By:	19. Received By:	20. Date:	21. Time:
I	Oskar Solovey			
II		JD	11/01/01	8am
III				

26. ATC Project Manager:

27. Result To: E. Burkhardt

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

22. Lab Name: ATC-TEM	23. Date:	24. Time:
a. Analyzed By: RDy	11.01	11:30
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

NYC-WTC_000124200

NYC 9/11 Public Portal Document

AIR MONITORING DATA AND CHAIN OF CUSTODY FORM

ATC ASSOCIATES INC.

TURNAROUND TIME

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

PROJECT INFORMATION

5802

1. Client:	2. Project Name / 2a. Project Address	3. Project # / 3a. Task #	4. Project Monitor / 4a. Air Sampler:	4c. Rotameter Number:
Pare Place	2a. 125 Rector St		4. O Soloviey	4c. H,180

5. Date:	6. Abatement Location:	7. ☐ PCM (0.8 micron MCE)	8. ☒ TEM (0.45 micron MCE)	9. Type:
03/01		Cassette/Filter Manufacture ____ Lot # ____	Cassette/Filter Manufacture ____ Lot # ____	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: 12a. IWA	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	14b. Avg	15. Total Air Vol. (liters)	16. # Fibers/Fields Minus Blank	17. Fiber Conc. F/CC
23				Field Blank Open 30s									
				Field Blank									
24				Out side build 5 from entr Rector Pl	15:20	17:30	130	10.0	10.0	10	1300		
25				Out side build in Rector Pl 10' from entr left side	15:25	17:35	130	10.0	10.0	10	1300		
26				Outside build in exit to court 5' from exit right side	15:30	17:40	130	10.0	10.0	10	1300		
27				Out side building exit to court 10' from exit left side	15:35	17:45	130	10.0	10.0	10	1300		
28				Outside building center of the court	15:40	17:50	130	10.0	10.0	10	1300		
29				Apt # PII	18:00	20:10	130	10.0	10.0	10	1300		
30				Apt # PII	18:10	20:20	130	10.0	10.0	10	1300		

CHAIN OF CUSTODY

	18. Relinquished By:	19. Received By:	20. Date:	21. Time:
I	Oleg Soloviey			
II		JD	10/9/01	8am.
III				

26. ATC Project Manager: [illegible]

27. Result To: F Burkhardt

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

22. Lab Name: ATC-TEM	23. Date:	24. Time:
a. Analyzed By: RRy	11.01	11:30
b. QC By:		
c. Lab Batch #:		

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

Analysis Methodology
PCM - NIOSH 7400A

28. Comments:

NYC 9/11 Public Portal Document

ATTACHMENT 3
ROOF DEBRIS CLEAN-UP
BULK SAMPLE RESULTS
NYCDEP NOTIFICATION
&
PCM AIR SAMPLE RESULTS

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NYC-WTC_000124201

NYC DEPARTMENT OF ENVIRONMENTAL PROTECTION

Asbestos Control Program
59-17 Junction Boulevard, 8th Floor, Corona, NY 11368-5107

ONLY TYPEWRITTEN FORMS WILL BE ACCEPTED

www.nyc.gov/dep

ASBESTOS PROJECT NOTIFICATION
(ASBESTOS INSPECTION REPORT)

Building Dept. or TRU No
FOR OFFICIAL USE ONLY

1. _____ (See fee schedule)

When submitting this form at the NYC Department of Buildings, the original form and three (3) copies with original signatures are required. Submittal at the NYCDEP requires one copy of the form with original signatures. This form must be submitted to the NYC DEP not less than one week in advance of the start of abatement activities.

I. FACILITY

2. Address 225 Rector Place Borough Manhattan Zip 10280

AKA Parc Place 3. Block 16 4. Lot 70

5. Type of Facility Apartment House 6. Name of Building _____

II. BUILDING OWNER

7. Name Liberty View Associates L.P. 8. Contact Person Peter Hoyle

9. Tel. # (212) 521-6404 Fax # (212) 593-5793

10. Address 203 East 86th Street City New York State NY Zip 10028

III. GENERAL CONTRACTOR

11. Name _____ Tel. # _____

IV. ASBESTOS ABATEMENT CONTRACTOR

12. Name Hazardous Elimination Corporation 13. Contact Person A. Konstandt

14. Federal Employer ID. PII 15. Tel. # (631) 752-2898 Fax # (631) 752-2910

16. Address 195H Central Avenue City Farmingdale State NY Zip 11735

V. THIRD PARTY AIR MONITOR

17. Name ATC Associates 18. Contact Person F. Berkhardt

19. Federal Employer ID. PII 20. Tel. # (212) 353-8280 Fax # (212) 353-8306

21. Address 104 East 25th Street City New York State NY Zip 10010

22. Sample Analysis Laboratory ATC Associates 23. NYS DOH ELAP # 10879

VI. PROJECT INFORMATION

24. Starting date for this portion of work 10/1/01 Projected completion date 10/4/01

Asbestos work schedule ☑ Monday ☑ Tuesday ☑ Wednesday ☑ Thursday ☐ Friday ☐ Saturday ☐ Sunday

Shift from: 7 ☑ am ☐ pm to 7 ☐ am ☑ pm

If other, specify _____

Access to inspect the premises must be provided during the work schedule indicated in this item.

25. Total amount of asbestos-containing material to be abated during this work

9,000 Square Feet, and/or 0 Linear Feet

ACP 7
2/2001

NYC 9/11 Public Portal Document

ATC ASSOCIATES INC

Page _____ of _____

BATCH NO. 9532

BULK SAMPLE DATA AND CHAIN OF CUSTODY FORM

PROJECT INFORMATION

1. Client:	2. Project Name: 225 Liberty St	3. Project No:	4. Project Manager:
RELIANCE	2a. Project Address:	13	4a. Investigator:

5. Date:	6. Building Name:	8. Turnaround Time:	9. Comments (Field)
9/25/01	7. Sampling Areas:	~~STAT~~ ☐ 24 HRS ☐ 72 HRS ☐ OTHER ☐ 6 HRS ☐ 48 HRS ☐ NORMAL ☐ _____	

BULK SAMPLE LOCATION

10. Homogenous Area No.	11. Bulk Sample ID No.	12. Material	13. Thermal System	14. Sample Location: Floor	14. Sample Location: Sample Coordinates	15. Material Total Quantity (LF, SF, PCS)	16. Asbestos Content (Type & %)
1	1	DEBRIS			AFT PII - ROOF		TPC
1	2				PARC ROOF		14C
1	3				AFT PII NW - ROOF		

1 5 9 10 10 12 15 13 15 3

CHAIN OF CUSTODY

17. Relinquished By:	18. Date:	19. Time:	20. Received By:	21. Date:	22. Time:
I	9/25/01			9/26/01	9am
II					
III					

23. Method of Submittal:	
FIELD	
WALK IN	
US MAIL	
FED EX	
OTHER _____	

LAB INFORMATION

24. Name and Signature	25. Date:	26. Time:
24a. Analyzed By:	9/26/01	9:30
24b. Analyzed By:		
24c. QC By:		

27. Comments (Lab)

3 Plm

NY-13 (3/99)

NYC-WTC_000124203

NYC-WTC_000124204

ATC ASSOCIATES INC - NEW YORK BULK ASBESTOS ANALYSIS SHEET

104 East 25th Street, 10th Floor · New York, NY 10010 · Phone (212) 353 - 8280, FAX (212) 353 - 3599 or 8306

NVLAP 101187
ELAP 10879
Microscope OLYP BH-2

Client / Project Related / 225 Rector PL — Project No. 05622-13

Analysis Date 3/26/01 — Analyst [illegible] — Batch No. 19533

1 Field No. 1	Stereoscopic Exam	PLM Optical Properties	Asbestos Results PLM %	Other Fibrous %	Non Fibrous %	Gravimetric (NOB) Results %
Gravimetric (NOB) Required [X]	Color Clear — Texture F	Morphology W — Extinction P	TR Chrysotile	25 Cellulose	60 Mineral Filler	___ Organic
Recommended [ ]	Homogenity H	RI l 1.5 — RI ll 1.5	___ Amosite	15 Fiberglass	___ Organic Binders	___ Residue
Gravimetric PREP [ ]	# of Layers 1 — Asbestos [X] [ ]	DS Color W — Color,Pleo 1	___ Other	___ Other	___ Vermiculite	___ Carbonate
Gravimetric (NOB) PLM [ ]	Color of Layer ___ — Detected Yes No	Biref ___ — Sign +			___ Other	___ Other
Gravimetric (NOB) TEM [ ]	Comments:			Q.C. [ ]		___ Asbestos
POINT COUNT RESULTS ON THE BACK	Method: [X] ELAP + EPA¹ [ ] ELAP [ ] EPA¹ [ ] OTHER [ ] SCANNING OPTION : ELAP (P.C.) & EPA¹ First 4 preps. Asbestos = 0					

2 Field No. 2	Stereoscopic Exam	PLM Optical Properties	Asbestos Results PLM %	Other Fibrous %	Non Fibrous %	Gravimetric (NOB) Results %
Gravimetric (NOB) Required [ ]	Color Clear — Texture F	Morphology W — Extinction P	1.4 Chrysotile	5.6 Cellulose	60 Mineral Filler	___ Organic
Recommended [ ]	Homogenity H	RI l 1.5 — RI ll 1.5	___ Amosite	30 Fiberglass	___ Organic Binders	___ Residue
Gravimetric PREP [ ]	# of Layers 1 — Asbestos [X] [ ]	DS Color W — Color,Pleo 1	___ Other	___ Other	___ Vermiculite	___ Carbonate
Gravimetric (NOB) PLM [ ]	Color of Layer ___ — Detected Yes No	Biref ___ — Sign +			___ Other	___ Other
Gravimetric (NOB) TEM [ ]	Comments:			Q.C. [ ]		___ Asbestos
POINT COUNT RESULTS ON THE BACK	Method: [X] ELAP + EPA¹ [ ] ELAP [ ] EPA¹ [ ] OTHER [ ] SCANNING OPTION : ELAP (P.C.) & EPA¹ First 4 preps. Asbestos = 0					

3 Field No. 3	Stereoscopic Exam	PLM Optical Properties	Asbestos Results PLM %	Other Fibrous %	Non Fibrous %	Gravimetric (NOB) Results %
Gravimetric (NOB) Required [ ]	Color Clear — Texture F	Morphology W — Extinction P	TR Chrysotile	20 Cellulose	20 Mineral Filler	___ Organic
Recommended [X]	Homogenity H	RI l 1.5 — RI ll 1.5	___ Amosite	30 Fiberglass	___ Organic Binders	___ Residue
Gravimetric PREP [ ]	# of Layers 1 — Asbestos [X] [ ]	DS Color W — Color,Pleo 1	___ Other	___ Other	___ Vermiculite	___ Carbonate
Gravimetric (NOB) PLM [ ]	Color of Layer ___ — Detected Yes No	Biref ___ — Sign +			___ Other	___ Other
Gravimetric (NOB) TEM [ ]	Comments:			Q.C. [ ]		___ Asbestos
POINT COUNT RESULTS ON THE BACK	Method: [X] ELAP + EPA¹ [ ] ELAP [ ] EPA¹ [ ] OTHER [ ] SCANNING OPTION : ELAP (P.C.) & EPA¹ First 4 preps. Asbestos = 0					

4 Field No.	Stereoscopic Exam	PLM Optical Properties	Asbestos Results PLM %	Other Fibrous %	Non Fibrous %	Gravimetric (NOB) Results %
Gravimetric (NOB) Required [ ]	Color ___ — Texture ___	Morphology ___ — Extinction ___	___ Chrysotile	___ Cellulose	___ Mineral Filler	___ Organic
Recommended [ ]	Homogenity ___	RI l ___ — RI ll ___	___ Amosite	___ Fiberglass	___ Organic Binders	___ Residue
Gravimetric PREP [ ]	# of Layers ___ — Asbestos [ ] [ ]	DS Color ___ — Color,Pleo ___	___ Other	___ Other	___ Vermiculite	___ Carbonate
Gravimetric (NOB) PLM [ ]	Color of Layer ___ — Detected Yes No	Biref ___ — Sign ___			___ Other	___ Other
Gravimetric (NOB) TEM [ ]	Comments:			Q.C. [ ]		___ Asbestos
POINT COUNT RESULTS ON THE BACK	Method: [ ] ELAP + EPA¹ [ ] ELAP [ ] EPA¹ [ ] OTHER [ ] SCANNING OPTION : ELAP (P.C.) & EPA¹ First 4 preps. Asbestos = 0					

NYC 9/11 Public Portal Document

NYC 9/11 Public Portal Document

AIR MONITORING DATA AND CHAIN OF CUSTODY FORM

ATC ASSOCIATES INC

Page _____ of _____

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

OJECT INFORMATION

lient:	2. Project Name	3. Project #	4. Project Monitor:	4c. Rotameter Number:
eal Fed Mgmt East	2a. Project Address 225 Rector Pl.	3a. Task #	4a. Air Sampler:	RW-01

ate:	6. Abatement Location:	7. ☒ PCM (0.8 micron MCE)	8. ☐ TEM (0.45 micron MCE)	9. Type:	
-01-01	Pool Roof	Cassette/Filter Manufacture _____ Lot # _____	Cassette/Filter Manufacture _____ Lot # _____	a. ☐ Background b. ☒ Pre-Abate	c. ☒ Abatement d. ☐ Post-Abate e. ☐ OSHA f. ☐ Environmental g. ☐ Ambient h. ☐ Other

LY AIR SAMPLE RECORD

ample I.D. Number	11. Pump Number	12. Sample Location 12a. IWA	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	14b. Avg	15. Total Air Vol. (liters)	16. # Fibers/Fields Minus Blank	17. Fiber Conc. F/CC
01				Field Blank								0/100	
02				Field Blank								0/100	
2-03		✓		North Side of Pool Roof	14:02	19:02	300	5.0	5	5	1500	3/100	<0.003
2-04		✓		South Side of Pool Roof	14:04	19:04	300	5.0	5	5	1500	1/100	<0.003
PR-05		✓		West Side of Pool Roof	14:06	19:07	301	5.0	5	5	1505	5/100	<0.003
2-06		✓		East Side of Pool Roof	14:06	19:09	301	5.0	5	5	1505	4/100	<0.003
2-07		✓		Center of Pool Roof	14:10	19:11	301	5.0	5	5	1505	2/100	<0.003
2-08			✓	By ENT to Pool Roof	14:13	19:14	301	5.0	5	5	1505	3/100	<0.003

AIN OF CUSTODY

elinquished By:	19. Received By:	20. Date:	21. Time:
	R Broudina	10.01.01	20.00

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

22. Lab Name:	23. Date:	24. Time:
a. Analyzed By: R. Broudina	10.01.01	20.30
b. QC By:		
c. Lab Batch #: 97223		

25. Microscope Make/Serial #: Olympus 125
☐ Nikon Labophot 238913
☐ Nikon Labophot 238917
☐ Nikon Labophot 239079

Analysis Methodology
PCM - NIOSH 7400A
TEM - AHERA

ATC Project Manager:

27. Results to: FAX 1212-945-3768
Beeper/Phone #'s _____

28. Comments:

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

NY-1 (1/01)

NYC-WTC_000124205

NYC 9/11 Public Portal Document

VATC ASSOCIATES INC.

AIR MONITORING DATA AND CHAIN OF CUSTODY FORM

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

OJECT INFORMATION

lient:	2. Project Name	3. Project #	4. Project Monitor:	4c. Rotameter Number:
) Vealated Mgmt	2a. Project Address 225 Rector Pl	3a. Task #	4a. Air Sampler: Michael Andelora	FW-01

ate:	6. Abatement Location:	7. ☒ PCM (0.8 micron MCE)	8. ☐ TEM (0.45 micron MCE)	9. Type:	
9-02-01	Pool Roof W/A MacNeil Roof	Cassette/Filter Manufacture ____ Lot # ____	Cassette/Filter Manufacture ____ Lot # ____	a. ☐ Background b. ☒ Pre-Abate	c. ☒ Abatement d. ☐ Post-Abate e. ☐ OSHA f. ☐ Environmental g. ☐ Ambient h. ☐ Other

LY AIR SAMPLE RECORD

Sample I.D. Number	11. Pump Number	12. Sample Location 12a. IWA	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	14b. Avg	15. Total Air Vol. (liters)	16. # Fibers/Fields Minus Blank	17. Fiber Conc. F/CC
01				Field Blank								0/100	
02				Field Blank								0/100	
Large Pool Roof R-03		✓		North Side of Large Pool Roof	09:00	18:00	540	3	3	3	1620	15/100	0.005
R-04		✓		West Side of Large Pool Roof	09:02	18:03	541	3	3	3	1623	9/100	<0.003
R-05		✓		East Side of Large Pool Roof	09:04	18:05	541	3	3	3	1623	33.5/100	0.010
Smaller Pool Roof 2-06		✓		North Side of Small Pool Roof	09:08	18:09	541	3	3	3	1623	2/100	<0.003
2-07		✓		South Side of Smaller Pool Roof	09:010	18:12	542	3	3	3	1626	37/100	0.011
2-08		✓		West Side of Smaller Pool Roof	09:12	18:14	542	3	3	3	1626	1/100	<0.003

AIN OF CUSTODY

elinquished by:	19. Received By:	20. Date:	21. Time:
		10/02/01	1950

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

22. Lab Name:	23. Date:	24. Time:
a. Analyzed By:	10/02/01	2035
b. QC By:		
c. Lab Batch #: 97230		

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

Analysis Methodology
PCM - NIOSH 7400A
TEM - AHERA

ATC Project Manager: Fred B.

27. Result To: FAX 1212-945 3768
Beeper/Phone #'s ____

28. Comments:

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

NY-1 (1/01)

NYC-WTC_000124206

NYC 9/11 Public Portal Document

VATC ASSOCIATES INC.

AIR MONITORING DATA AND CHAIN OF CUSTODY FORM

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

OJECT INFORMATION

ient:	2. Project Name	3. Project #	4. Project Monitor:	4c. Rotameter Number:
Related Matter	2a. Project Address 225 Reade St	3a. Task #	4a. Air Sampler:	FW-01

ate:	6. Abatement Location:	7. ☒ PCM (0.8 micron MCE)	8. ☐ TEM (0.45 micron MCE)	9. Type:	
-02-01	Large PR Smaller PR W/A Mechanical Roof	Cassette/Filter Manufacture ____ Lot # ____	Cassette/Filter Manufacture ____ Lot # ____	a. ☐ Background b. ☒ Pre-Abate	c. ☒ Abatement d. ☐ Post-Abate e. ☐ OSHA f. ☐ Environmental g. ☐ Ambient h. ☐ Other

LY AIR SAMPLE RECORD

ample I.D. Number	11. Pump Number	12. Sample Location 12a. IWA	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	14b. Avg	15. Total Air Vol. (liters)	16. # Fibers/Fields Minus Blank	17. Fiber Conc. F/CC
				Field Blank									
				Field Blank									
MECH. ROOF R-09		✓		North Side of Mechanical Roof	09:16	18:17	541	3	3	3	1623	1/100	<0.003
R-10		✓		West Side of Mechanical Roof	09:17	18:19	542	3	3	3	1626	3/100	<0.003
R-11		✓		East Side of Mechanical Roof	09:18	18:20	542	3	3	3	1626	4/100	<0.003
R 12			✓	Clean Room Personal Decon.	09:20	18:21	541	3	3	3	1623	2/100	<0.003
R 13			✓	Next to Ent of Pool	09:22	18:22	540	3	3	3	1620	1/100	<0.003

AIN OF CUSTODY

elinquished By:	19. Received By:	20. Date:	21. Time:
		10/02/01	1950

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

22. Lab Name:	23. Date:	24. Time:
a. Analyzed By:	10/02/01	2035
b. QC By:		
c. Lab Batch #: 97230		

25. Microscope Make/Serial #:
☐ Nikon Labophot 238913
☐ Nikon Labophot 238917
☐ Nikon Labophot 239079
OLYMPUS CH2-1045

ATC Project Manager: Fred B.

27. Result To: PJ #1
Beeper/Phone #'s ____

28. Comments:

Analysis Methodology
PCM - NIOSH 7400A
TEM - AHERA

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

NY-1 (1/01)

NYC-WTC_000124207

NYC-WTC_00012420B

NYC 9/11 Public Portal Document

VATC ASSOCIATES INC.

AIR MONITORING DATA AND CHAIN OF CUSTODY FORM

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

OJECT INFORMATION

ient:	2. Project Name	3. Project #	4. Project Monitor:	4c. Rotameter Number:
Realated Mgmt	2a. Project Address 225 Rector Pl	3a. Task #	4a. Air Sampler:	FW-01

te:	6. Abatement Location:	7. ☒ PCM (0.8 micron MCE)	8. ☐ TEM (0.45 micron MCE)	9. Type:	
0-03-01	LARGE Pool Roof, Smaller Pool Roof, Mechanic Roof	Cassette/Filter Manufacture ____ Lot # ____	Cassette/Filter Manufacture ____ Lot # ____	a. ☐ Background b. ☐ Pre-Abate	c. ☒ Abatement d. ☐ Post-Abate e. ☐ OSHA f. ☐ Environmental g. ☐ Ambient h. ☐ Other

LY AIR SAMPLE RECORD

ample I.D. Number	11. Pump Number	12. Sample Location 12a. IWA	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	14b. Avg	15. Total Air Vol. (liters)	16. # Fibers/Fields Minus Blank	17. Fiber Conc. F/CC
01				Field Blank								0/100	
02				Field Blank								0/100	
AGRE- ol Roof 03		✓		North Side of Pool Roof	08:00	15:00	420	3	3	3	1260	1/100	<0.004
04		✓		West Side of Pool Roof	0802	15:03	421	3	3	3	1263	4/100	<0.004
05		✓		East Side of Pool Roof	08:04	15:05	421	3	3	3	1263	3/100	<0.004
naller ol Roof 06		✓		North Side of Pool Roof	08:08	15:07	419	3	3	3	1257	36/100	0.014
07		✓		East Side of Pool Roof	08:10	15:11	421	3	3	3	1263	28/100	0.011
08		✓		South Side of Pool Roof	08:13	15:12	419	3	3	3	1257	1/100	<0.004

AIN OF CUSTODY

elinquished By:	19. Received By:	20. Date:	21. Time:
		10/03/01	2030

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

22. Lab Name:	23. Date:	24. Time:
a. Analyzed By:	10/04/01	21.20
b. QC By:		
c. Lab Batch #: 97242		

25. Microscope Make/Serial #: OLYMPUS CH30 104005
☐ Nikon Labophot 238913
☐ Nikon Labophot 238917
☐ Nikon Labophot 239079

Analysis Methodology
PCM - NIOSH 7400A
TEM - AHERA

TC Project Manager:

27. Result To: FAX 1 212 945-3768
Beeper/Phone #'s ____

28. Comments:

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

NY-1 (1/01)

NYC-WTC_00012420

NYC 9/11 Public Portal Document

VATC ASSOCIATES INC.

AIR MONITORING DATA AND CHAIN OF CUSTODY FORM

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

JECT INFORMATION

ent:	2. Project Name	3. Project #	4. Project Monitor:	4c. Rotameter Number:
Treadstone Mgmt	2a. Project Address 225 Rector PL	3a. Task #	4a. Air Sampler:	FW-01

te:	6. Abatement Location:	7. ☒ PCM (0.8 micron MCE)	8. ☐ TEM (0.45 micron MCE)	9. Type:
8301		Cassette/Filter Manufacture ____ Lot # ____	Cassette/Filter Manufacture ____ Lot # ____	a. ☐ Background b. ☐ Pre-Abate c. ☒ Abatement d. ☐ Post-Abate e. ☐ OSHA f. ☐ Environmental g. ☐ Ambient h. ☐ Other

LY AIR SAMPLE RECORD

ample I.D. Number	11. Pump Number	12. Sample Location 12a. IWA	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	14b. Avg	15. Total Air Vol. (liters)	16. # Fibers/Fields Minus Blank	17. Fiber Conc. F/CC
				Field Blank									
				Field Blank									
MCNIL Roof 09		✓		North Side of MACNIL Roof	08:16	15:17	421	3	3	3	1263	1/100	<0.004
10		✓		West Sid of MACNIL Roof	08:17	15:18	421	3	3	3	1263	1/100	<0.004
11		✓		East Side of MACNIL Roof	08:18	15:19	421	3	3	3	1263	2/100	<0.004
12			✓	Clean Room Personal Decon	08:21	15:22	421	3	3	3	1263	1/100	<0.004
13			✓	Next to ENT of Pool Area	08:25	15:26	421	3	3	3	1263	4/100	<0.004

AIN OF CUSTODY

elinquished By:	19. Received By:	20. Date:	21. Time:
	Rhoq	10/05/01	2030

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

22. Lab Name:	23. Date:	24. Time:
a. Analyzed By: Rhoq	10/03/01	21.20
b. QC By:		
c. Lab Batch #: 97242		

25. Microscope Make/Serial #: OLYMPUS CH2/1025
☐ Nikon Labophot 238913
☐ Nikon Labophot 238917
☐ Nikon Labophot 239079

Analysis Methodology
PCM - NIOSH 7400A
TEM - AHERA

.TC Project Manager: Fred B.

27. Result To: PG #1
Beeper/Phone #'s ____

28. Comments:

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

NY-1 (1/01)

NYC-WTC_000124210

NYC 9/11 Public Portal Document

VATC ASSOCIATES INC.

AIR MONITORING DATA AND CHAIN OF CUSTODY FORM

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

JECT INFORMATION

ent:	2. Project Name	3. Project #	4. Project Monitor:	4c. Rotameter Number:
eAlated MgmT	225 Rector pL		Ruben Acosta	
	2a. Project Address 225 Rector pL	3a. Task #	4a. Air Sampler: R. Acosta	Hp. 60

te:	6. Abatement Location:	7. ☑ PCM (0.8 micron MCE)	8. ☐ TEM (0.45 micron MCE)	9. Type:	
.5.01	roof	Cassette/Filter Manufacture Nucleopore Lot #	Cassette/Filter Manufacture Lot #	a. ☐ Background b. ☐ Pre-Abate	c. ☑ Abatement d. ☐ Post-Abate e. ☐ OSHA f. ☐ Environmental g. ☐ Ambient h. ☐ Other

.Y AIR SAMPLE RECORD

ample I.D. Number	11. Pump Number	12. Sample Location 12a. IWA	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	14b. Avg	15. Total Air Vol. (liters)	16. # Fibers/Fields Minus Blank	17. Fiber Conc. F/CC
01				Field Blank								0/100	
02				Field Blank								0/100	
03			✓	south roof	7:55	2:35	455	5.0	5.0	5.0	2275	3/100	<0.002
04			✓	center roof	7:56	2:36	455	5.0	5.0	5.0	2275	4/100	<0.002
05			✓	North roof	7:57	2:37	455	5.0	5.0	5.0	2275	2/100	<0.002

AIN OF CUSTODY

telinquished By:	19. Received By:	20. Date:	21. Time:
R. Acosta	Athog	10/05/01	2140

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

22. Lab Name:	23. Date:	24. Time:
a. Analyzed By: Athog	10/05/01	2225
b. QC By:		
c. Lab Batch #: 97278		

25. Microscope Make/Serial #: OLYMPUS CH30 10US
☐ Nikon Labophot 238913
☐ Nikon Labophot 238917
☐ Nikon Labophot 239079

Analysis Methodology
✓ PCM - NIOSH 7400A
TEM - AHERA

.TC Project Manager: . Burkhardt

27. Result To: ____
Beeper/Phone #'s 212-945-3765

28. Comments:

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

NY-1 (1/01)

NYC 9/11 Public Portal Document

VATC ASSOCIATES INC.

AIR MONITORING DATA AND CHAIN OF CUSTODY FORM

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

OJECT INFORMATION

Client:	2. Project Name / 2a. Project Address	3. Project # / 3a. Task #	4. Project Monitor: / 4a. Air Sampler:	4c. Rotameter Number:
Related Mgmt	2. 225 Rector Pl / 2a. 225 Rector Pl.		4. Ruben Acosta / 4a. R. Acosta	HP-E.O

Date:	6. Abatement Location:	7. ☑ PCM (0.8 micron MCE)	8. ☐ TEM (0.45 micron MCE)	9. Type:
9-5-01	Roof parking & large	Cassette/Filter Manufacture: Nuclepore / Lot # _____	Cassette/Filter Manufacture _____ / Lot # _____	a. ☐ Background b. ☐ Pre-Abate c. ☐ Abatement d. ☑ Post-Abate e. ☐ OSHA f. ☐ Environmental g. ☐ Ambient h. ☐ Other

ILY AIR SAMPLE RECORD

Sample I.D. Number	11. Pump Number	12. Sample Location: 12a. IWA	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	14b. Avg	15. Total Air Vol. (liters)	16. # Fibers/Fields Minus Blank	17. Fiber Conc. F/CC
01				Field Blank								0/100	
02				Field Blank								0/100	
03		✓		North West side of large roof	3:00	5:00	120	15.0	15.0	15.0	1500	2/100	<0.003
04		✓		East side of large roof	3:01	5:01	120	15.0	15.0	15.0	1500	1/100	<0.003
05		✓		South side of large roof	3:02	5:02	120	15.0	15.0	15.0	1500	1/100	<0.003
06		✓		West side of parking roof	3:04	5:04	120	15.0	15.0	15.0	1500	1/100	<0.003
07		✓		South West side of roof	3:05	5:05	120	15.0	15.0	15.0	1500	2/100	<0.003
08		✓		Center of the parking roof	3:06	5:06	120	15.0	15.0	15.0	1500	3/100	<0.003

AIN OF CUSTODY

Relinquished By:	19. Received By:	20. Date:	21. Time:
R. Acosta	[illegible]	10/05/01	2140

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

22. Lab Name:	23. Date:	24. Time:
a. Analyzed By: [illegible]	10/05/01	22.15
b. QC By:		
c. Lab Batch #: 97277		

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

Analysis Methodology
✓ PCM - NIOSH 7400A
TEM - AHERA

ATC Project Manager: T. Burkhardt

27. Result To: _____
Beeper/Phone #'s 212-945-3768

28. Comments:

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

NY-1 (1/01)

NYC-WTC_000124211

NYC 9/11 Public Portal Document

VATC ASSOCIATES INC.

AIR MONITORING DATA AND CHAIN OF CUSTODY FORM

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

JECT INFORMATION

ient:	2. Project Name	3. Project #	4. Project Monitor	4c. Rotameter Number:
Scaffold Dept	225 Rector Pl		Ruben Acosta	HP-60
	2a. Project Address 225 Rector Pl.	3a. Task #	4a. Air Sampler: R. Acosta	

te:	6. Abatement Location:	7. ☑ PCM (0.8 micron MCE)	8. ☐ TEM (0.45 micron MCE)	9. Type:
5-01	Mechanic Roof	Cassette/Filter Manufacture Nuclepore	Cassette/Filter Manufacture	a. ☐ Background b. ☐ Pre-Abate c. ☐ Abatement d. ☑ Post-Abate e. ☐ OSHA f. ☐ Environmental g. ☐ Ambient h. ☐ Other
		Lot #	Lot #	

LY AIR SAMPLE RECORD

ample I.D. Number	11. Pump Number	12. Sample Location 12a. IWA	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	14b. Avg	15. Total Air Vol. (liters)	16. # Fibers/Fields Minus Blank	17. Fiber Conc. F/CC
				Field Blank									
				Field Blank									
09		✓		South East side of Mechanic roof	3:09	5:09	120	15.0	15.0	15.0	1800	1/100	<0.003
10		✓		by the Middle of Mechanic roof	3:09	5:09	120	15.0	15.0	15.0	1800	2/100	<0.003
11		✓		East side of Mechanic roof	3:10	5:10	120	15.0	15.0	15.0	1800	4/100	<0.003

AIN OF CUSTODY

elinquished By:	19. Received By:	20. Date:	21. Time:
R. Acosta	RHogg	10/05/01	21:40

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

22. Lab Name:	23. Date:	24. Time:
a. Analyzed By: RHogg	10/05/01	22:15
b. QC By:		
c. Lab Batch #: 97277		

25. Microscope Make/Serial #: OLYMPUS CH2 Various
☐ Nikon Labophot 238913
☐ Nikon Labophot 238917
☐ Nikon Labophot 239079

Analysis Methodology
✓ PCM - NIOSH 7400A
TEM - AHERA

TC Project Manager: . Burkhardt

27. Result To: _____
Beeper/Phone #'s 212-945-3765

28. Comments:

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

NY-1 (1/01)

NYC-WTC_000124212

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ATTACHMENT 4
AIR SAMPLING DATA & CHAIN OF CUSTODY FORM,

PCM FIBERGLASS AIR SAMPLES

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NYC-WTC_000124214

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Fiberglass

AIR MONITORING DATA AND CHAIN OF CUSTODY FORM

Fiberglass

Page ____ of ____

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:
225 Rector PL	2a. Project Address: 225 Rector PL NY NY	0622-13 / 3a. Task #	Tim Austis locally / 4a. Air Sampler:	SD-132

5. Date:	6. Abatement Location:	7. ☒ PCM (0.8 micron MCE) Cassette/Filter Manufacture: MIXED / Lot #: 010C1915	8. ☐ TEM (0.45 micron MCE) Cassette/Filter Manufacture: X / Lot #:	9. Type: a. ☐ Background b. ☐ Pre-Abate c. ☐ Abatement d. ☐ Post-Abate e. ☐ OSHA f. ☐ Environmental g. ☒ Ambient h. ☐ Other
11/16/01	Lobby			

DAILY AIR SAMPLE RECORD

10. Sample I.D. Number	11. Pump Number	12. Sample Location: 12a. IWA	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	14b. Avg	15. Total Air Vol. (liters)	16. # Fibers/Fields Minus Blank	17. Fiber Conc. F/CC
B-1				Field Blank								0/100	
				Field Blank									
1				Lobby West side	1100	1300	120	15	15	15	1800	9/100	<3.03
2				Lobby East side	1102	1302	120	15	15	15	1800	16/100	<3.03
3				Lobby North side	1105	1305	120	15	15	15	1800	18/100	<3.03
4				Lobby South side	1307	1307	120	15	15	15	1800	9/100	<3.03
5				Lobby Middle.	1310	1510	120	15	15	15	1800	15/100	<3.03

CHAIN OF CUSTODY

18. Relinquished By:	19. Received By:	20. Date:	21. Time:
I.			
II			
III			

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

22. Lab Name:	23. Date:	24. Time:
a. Analyzed By:	11/18/01	0500
b. QC By:		
c. Lab Batch #: 97985		

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

Analysis Methodology
PCM - NIOSH 7400A
TEM - AHERA

26. ATC Project Manager: Fred Burkhardt

27. Result To: Fred Burkhardt
Beeper/Phone #'s ____

28. Comments:

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

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AIR MONITORING DATA AND CHAIN OF CUSTODY FORM

Page _____ of _____

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: Tim Hurst/Isaiah L.	4c. Rotameter Number:
25 Dreator PL	2a. Project Address: 225 Dreator PL NY NY		4a. Air Sampler:	SD-152

5. Date:	6. Abatement Location:	7. ☐ PCM (0.8 micron MCE) Cassette/Filter Manufacture: NMT Lot #:	8. ☐ TEM (0.45 micron MCE) Cassette/Filter Manufacture: A Lot #:	9. Type: a. ☐ Background b. ☐ Pre-Abate c. ☐ Abatement d. ☐ Post-Abate e. ☐ OSHA f. ☐ Environmental g. ☒ Ambient h. ☐ Other
11-28-01				

DAILY AIR SAMPLE RECORD

Sample I.D. Number	11. Pump Number	12. Sample Location 12a. IWA	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	14b. Avg	15. Total Air Vol. (liters)	16. # Fibers/Fields Minus Blank	17. Fiber Conc. F/CC
				Field Blank									
				Field Blank									
1		V		Lobby	1300	1500	120	15	15	15	1800	9/100	<.003
2		V		Hallway 5FC	1305	1505	120	15	15	15	1800	11/100	<.003
3		V		Hallway 10FC	1310	1510	120	15	15	15	1800	5/100	<.003
4		V		Hallway 15FC	1315	1515	120	15	15	15	1800	5/100	<.003
5		V		Hallway 20FC	1320	1520	120	15	15	15	1800	8/100	<.003

CHAIN OF CUSTODY

18. Relinquished By:	19. Received By:	20. Date:	21. Time:
I			
II			

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

22. Lab Name:	23. Date:	24. Time:
a. Analyzed By:		
b. QC By:		
c. Lab Batch #: 98119		

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

Analysis Methodology
(PCM) NIOSH 7400A
TEM - AHERA

26. ATC Project Manager: Fred Burkhardt

27. Result To: Fred Burkhardt
Beeper/Phone #'s _____

28. Comments:

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

NY-1 (1/00)

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ATTACHMENT 5
ACCUMULATED APARTMENT DUST
BULK SAMPLE RESULTS

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BATCH NO. 1551

BULK SAMPLE DATA AND CHAIN OF CUSTODY FORM

PROJECT INFORMATION

1. Client:	2. Project Name: 225 Liberty St	3. Project No:	4. Project Manager: E. Sullivan
Blank	2a. Project Address:		4a. Investigator:

5. Date:	6. Building Name:	8. Turnaround Time:	9. Comments (Field)
9/21/01	7. Sampling Areas:	☒ STAT ☐ 24 HRS ☐ 72 HRS ☐ OTHER ☐ 6 HRS ☐ 48 HRS ☐ NORMAL ☐ _____	Blank

BULK SAMPLE LOCATION

10. Homogenous Area No.	11. Bulk Sample ID No.	12. Material	13. Thermal System	14. Sample Location: Floor	14. Sample Location: Sample Coordinates	15. Material Total Quantity (LF, SF, PCS)	16. Asbestos Content (Type & %)
1	1	DUST			PII		
1	2	"					
1	3	"					

CHAIN OF CUSTODY

17. Relinquished By:	18. Date:	19. Time:	20. Received By:	21. Date:	22. Time:
I	9/21/01		E. J. Condon	9/21/01	
II					
III					

23. Method of Submittal:	
FIELD	
WALK IN	
US MAIL	
FED EX	
OTHER _____	

LAB INFORMATION

24. Name and Signature	25. Date:	26. Time:
24a. Analyzed By: E. J. Condon	9/21/01	2:47
24b. Analyzed By:		
24c. QC By:		

27. Comments (Lab)
3 PLM < 1 Hrs.

NYC-WTC_000124218

ATC ASSOCIATES INC - NEW YORK BULK ASBESTOS ANALYSIS SHEET

104 East 25th Street, 10th Floor · New York, NY 10010 · Phone (212) 353 - 8280, FAX (212) 353 - 3599 or 8306

NVLAP 101187
ELAP 10872
Microscope OLYMPUS BH-2

Client / Project RELATED / 225 RECTOR PLACE Project No. _____

Analysis Date 9/21/01 Analyst E. A Guarieri Batch No. 19511

1 Field No. 1	Stereoscopic Exam	PLM Optical Properties	Asbestos Results PLM %	Other Fibrous %	Non Fibrous %	Gravimetric (NOB) Results %
Gravimetric (NOB) Required ☐ Recommended ☑ Gravimetric PREP ☐ Gravimetric (NOB) PLM ☐ Gravimetric (NOB) TEM ☐	Color Tan Texture F Homogenity Y # of Layers ____ Asbestos ☑ ☐ Color of Layer ____ Detected Yes No Comments:	Morphology W Extinction P RI ⊥ 1.549 RI ∥ 1.536 DS Color B/M Color,Pleo N Biref L Sign +	0.25 Chrysolite ____ Amosite ____ Other	20 Cellulose 40 Fiberglass ____ Other	35 Mineral Filler ____ Organic Binders ____ Vermiculite ____ Other	Organic Residue Carbonate Other Asbestos
POINT COUNT RESULTS ON THE BACK	Method: ☑ ELAP + EPA¹ ☐ ELAP ☐ EPA¹ ☐ OTHER ☐ SCANNING OPTICON: ELAP (P.C.) & EPA¹ First 4 preps Asbestos = 0			O.C. ☐		

2 Field No. 2	Stereoscopic Exam	PLM Optical Properties	Asbestos Results PLM %	Other Fibrous %	Non Fibrous %	Gravimetric (NOB) Results %
Gravimetric (NOB) Required ☐ Recommended ☐ Gravimetric PREP ☐ Gravimetric (NOB) PLM ☐ Gravimetric (NOB) TEM ☐	Color Tan Texture F Homogenity Y # of Layers ____ Asbestos ☑ ☐ Color of Layer ____ Detected Yes No Comments:	Morphology W Extinction P RI ⊥ 1.549 RI ∥ 1.536 DS Color B/M Color,Pleo N Biref L Sign +	0.25 Chrysolite ____ Amosite ____ Other	17.75 Cellulose 42 Fiberglass ____ Other	35 Mineral Filler ____ Organic Binders ____ Vermiculite ____ Other	Organic Residue Carbonate Other Asbestos
POINT COUNT RESULTS ON THE BACK	Method: ☑ ELAP + EPA¹ ☐ ELAP ☐ EPA¹ ☐ OTHER ☐ SCANNING OPTICON: ELAP (P.C.) & EPA¹ First 4 preps Asbestos = 0			O.C. ☐		

3 Field No. 3	Stereoscopic Exam	PLM Optical Properties	Asbestos Results PLM %	Other Fibrous %	Non Fibrous %	Gravimetric (NOB) Results %
Gravimetric (NOB) Required ☐ Recommended ☑ Gravimetric PREP ☐ Gravimetric (NOB) PLM ☐ Gravimetric (NOB) TEM ☐	Color Tan Texture F Homogenity Y # of Layers ____ Asbestos ☑ ☐ Color of Layer ____ Detected Yes No Comments:	Morphology W / SF Extinction P / P RI ⊥ 1.549 / 1.680 RI ∥ 1.536 / 1.70 DS Color B/M / B/Y Color,Pleo N / N Biref L / Y Sign + / +	0.5 Chrysolite 0.25 Amosite ____ Other	24.25 Cellulose 40 Fiberglass ____ Other	35 Mineral Filler ____ Organic Binders ____ Vermiculite ____ Other	Organic Residue Carbonate Other Asbestos
POINT COUNT RESULTS ON THE BACK	Method: ☑ ELAP + EPA¹ ☐ ELAP ☐ EPA¹ ☐ OTHER ☐ SCANNING OPTICON: ELAP (P.C.) & EPA¹ First 4 preps Asbestos = 0			O.C. ☑ 0.5 % chrys 0.25 % amos		

4 Field No.	Stereoscopic Exam	PLM Optical Properties	Asbestos Results PLM %	Other Fibrous %	Non Fibrous %	Gravimetric (NOB) Results %
Gravimetric (NOB) Required ☐ Recommended ☐ Gravimetric PREP ☐ Gravimetric (NOB) PLM ☐ Gravimetric (NOB) TEM ☐	Color ____ Texture ____ Homogenity ____ # of Layers ____ Asbestos ☐ ☐ Color of Layer ____ Detected Yes No Comments:	Morphology ____ Extinction ____ RI ⊥ ____ RI ∥ ____ DS Color ____ Color,Pleo ____ Biref ____ Sign ____	____ Chrysolite ____ Amosite ____ Other	____ Cellulose ____ Fiberglass ____ Other	____ Mineral Filler ____ Organic Binders ____ Vermiculite ____ Other	____ Organic ____ Residue ____ Carbonate ____ Other ____ Asbestos
POINT COUNT RESULTS ON THE BACK	Method: ☐ ELAP + EPA¹ ☐ ELAP ☐ EPA¹ ☐ OTHER ☐ SCANNING OPTICON: ELAP (P.C.) & EPA¹ First 4 preps Asbestos = 0			O.C. ☐		

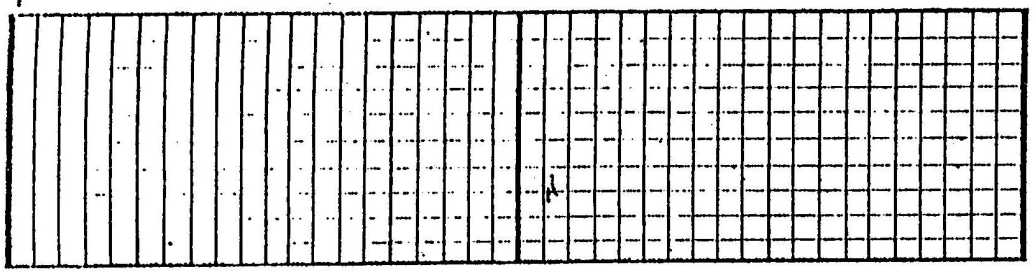
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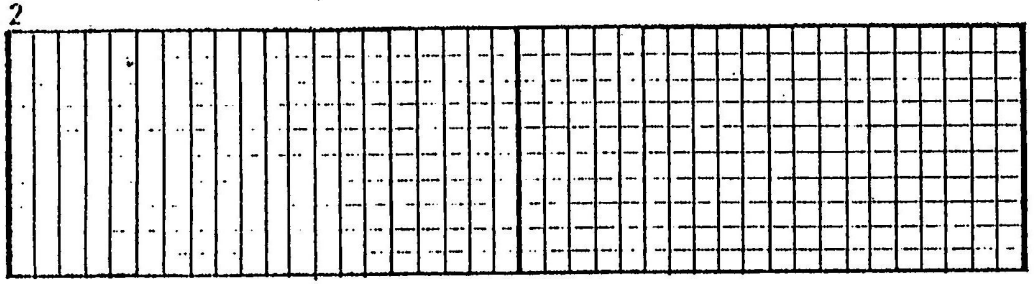
POINT COUNT

1



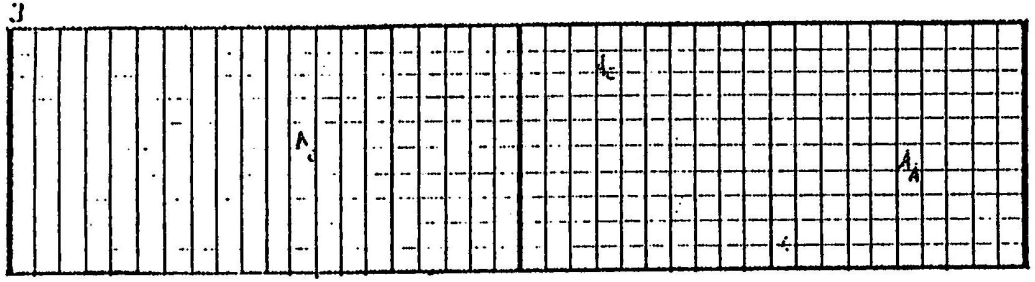
Asbestos Points = 1
Non-Asbestos Points = 399
TOTAL POINTS = 400
Asbestos % = 0.25

2



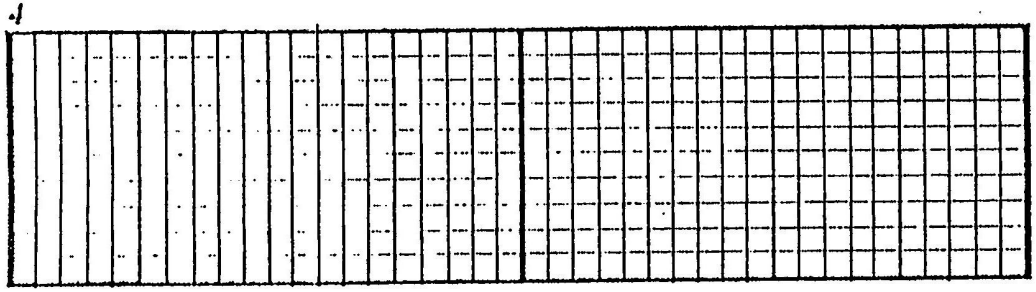
Asbestos Points = 1
Non-Asbestos Points = 399
TOTAL POINTS = 400
Asbestos % = 0.25

3



2 Ch, 1 A.
Asbestos Points =
Non-Asbestos Points = 399
TOTAL POINTS = 400
Asbestos % =
Ch - 0.5
A - 0.25

4



Asbestos Points =
Non-Asbestos Points =
TOTAL POINTS =
Asbestos % =

Legend: A = ASBESTOS
% ASBESTOS = (AP x 100%) / TP
Where : AP = Total # of Specific Asbestos Points; TP = Total # of Non empty Points

RI = REFRACTIVE INDEX
L = LOW M = MEDIUM H = HIGH
BIREF = BIREFRINGENCE

P = PARALLEL O = OBLIQUE
G = GRANULAR
CL = CLEAR B = BLUE

NF = NON FRIABLE
F = FRIABLE
P.C. = Point Count

EPA[1] : For Friable Materials we use Method 600 / M4 - 82 - 020 and 600 / R - 93/116
For Non Friable + Layer Materials we use Method 600 / R - 93/116

Note: ELAP Methods as per items 198.1 and 198.4