NYC 9/11 Public Portal Document

APPENDIX C- TEM FINAL AIR SAMPLE RESULTS

NYC 9/11 Public Portal Document

ATC ASSOCIATES INC.

104 East 25th St., 10th Floor
New York, New York 10010
www.atc-enviro.com
212.353.8280
Fax 212.353.8306

October 30, 2002

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

Attn: Mr. Ben Sallemi

Re: Report of TEM Analysis

Dear Mr. Sallemi:

Following are the results of transmission electron microscopy (TEM) analysis of air samples from our Group No. 9041:

Client: D.E.P.
Project Name: D.E.P. Clean-up, 125 Cedar St., NY, NY
Location: Apartments 9S, 8N, 3S, 2N
Samples received: 10/29/02

These results will confirm and document the data transmitted today to your office. The analyses were performed in conformance with the methodology of the AHERA Final Rule (CFR October 30, 1987) for clearance of abatement sites.

The results of the sample analyses may be found on the attached document.

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.

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-WTC_000131493

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: Benjamin Sallemi
ATC Associates Inc.
104 East 25th Street
New York NY 10010

Fax: (212) 353-3599 **Phone:** (212) 353-8280

Project: DEP Clean-up ATC Project #: 22906-0002
125 Cedar Street, New York, NY

Received: 10/29/02 7:00:00 AM
ATC Group #: 9041
Analysis Date: 10/30/02

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

Sample	*Volume*	*Area Analyzed*	*Non Asb*	*Asbestos Type(s)*	*# Structures 0.5µ-5*	*5µ*	*Analytical Sensitivity (S/cc)*	*Total Asbestos Concentration (S/mm²)*	*(S/cc)*	*Asbestos Concentration (S > 5µ/cc)*
04 *9041 -1*	3600.00	0.2473	57	CHRYSOTILE	1	0	0.0004	4.04	0.0004	< 0.0004
05 *9041 -2*	3600.00	0.2473	60	None Detected	0	0	0.0004	<4.04	<0.0004	< 0.0004
06 *9041 -3*	3600.00	0.2473	61	AMOSITE	0	2	0.0004	8.09	0.0009	0.0009
07 *9041 -4*	3600.00	0.2473	48	CHRYSOTILE	0	1	0.0004	4.04	0.0004	0.0004
08 *9041 -5*	3600.00	0.2473	49	CHRYSOTILE	0	1	0.0004	4.04	0.0004	0.0004
09 *9041 -6*	3600.00	0.2473	90	CHRYSOTILE	0	4	0.0004	16.18	0.0017	0.0017
10 *9041 -7*	3600.00	0.2473	40	CHRYSOTILE	1	1	0.0004	8.09	0.0009	0.0004

ROMAN 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-WTC_000131494

NYC 9/11 Public Portal Document

Attn: Benjamin Sallemi
ATC Associates Inc.
104 East 25th Street
New York NY 10010
Fax: (212) 353-3599 **Phone:** (212) 353-8280

Received: 10/29/02 7:00:00 AM
ATC Group #: 9041
Analysis Date: 10/30/02

Project: DEP Clean-up ATC Project #: 22906-0002
125 Cedar Street, New York, NY

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

Sample	*Volume*	*Area Analyzed*	*Non Asb*	*Asbestos Type(s)*	*# Structures 0.5μ-5*	*5μ*	*Analytical Sensitivity (S/cc)*	*Total Asbestos Concentration (S/mm²)*	*(S/cc)*	*Asbestos Concentration (S > 5μ/cc)*
11 *9041 -8*	3600.00	0.2473	46	None Detected	0	0	0.0004	<4.04	<0.0004	< 0.0004
12 *9041 -9*	3600.00	0.2473	31	CHRYSOTILE	1	2	0.0004	12.13	0.0013	0.0009
13 *9041 -10*	3600.00	0.2473	56	CHRYSOTILE	1	4	0.0004	20.22	0.0022	0.0017
14 *9041 -11*	3600.00	0.2473	24	CHRYSOTILE	1	0	0.0004	4.04	0.0004	< 0.0004
15 *9041 -12*	3600.00	0.2473	16	CHRYSOTILE	0	1	0.0004	4.04	0.0004	0.0004
16 *9041 -13*	3600.00	0.2473	36	CHRYSOTILE	0	1	0.0004	4.04	0.0004	0.0004
17 *9041 -14*	3600.00	0.2473	30	None Detected	0	0	0.0004	<4.04	<0.0004	< 0.0004
18 *9041 -15*	3600.00	0.2473	29	CHRYSOTILE	0	2	0.0004	8.09	0.0009	0.0009
19 *9041 -16*	3600.00	0.2473	02	CHRYSOTILE	24	8	0.0004	129.41	0.0138	0.0035

ROMAN 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-WTC_000131495

NYC 9/11 Public Portal Document

Attn: Benjamin Sallemi
ATC Associates Inc.
104 East 25th Street
New York NY 10010
Fax: (212) 353-3599 **Phone:** (212) 353-8280

Received: 10/29/02 7:00:00 AM
ATC Group #: 9041
Analysis Date: 10/30/02

Project: DEP Clean-up ATC Project #: 22906-0002
125 Cedar Street, New York, NY

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

Sample	*Volume*	*Area Analyzed*	*Non Asb*	*Asbestos Type(s)*	*# Structures 0.5μ-5*	*5μ*	*Analytical Sensitivity (S/cc)*	*Total Asbestos Concentration (S/mm²)*	*(S/cc)*	*Asbestos Concentration (S > 5μ/cc)*
20 *9041 -17*	3600.00	0.2473	02	CHRYSOTILE	16	3	0.0004	76.84	0.0082	0.0013
21 *9041 -18*	3600.00	0.2473	92	CHRYSOTILE	11	4	0.0004	60.66	0.0065	0.0017
22 *9041 -19*	3600.00	0.2473	02	CHRYSOTILE	14	6	0.0004	80.88	0.0086	0.0026
23 *9041 -20*	3600.00	0.2473	90	CHRYSOTILE	3	1	0.0004	16.18	0.0017	0.0004

ROMAN PEYSAKHOV
Analyzed by:

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

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NYC-WTC_000131496

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TEM Asbesfos (air) Count Sheet

Client Name:	ATC	**Volume (liters):**	3600
Lab Group #:	9041	**Filter Type / Filter Area:**	MCE 385 mm²
Lab Sample #:	1	**Grid Opening Size:**	0.01124
Client Sample #:	04	**Area Examined:**	0.24728 mm²
GRID BOX:	1475	**Magnification:**	20,000
GRID ID:	2DF	**Accelerating Voltage:**	100 KeV
# Grid Openings:	22	**Analysis Date:**	10/30/02

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	M2	1-4									√		1 Cell, 3 Cyl
2	N2	5-6									√		
3	Q2	7-11									√		
4	Q7	12-15									√		
5	R4	16-17									√		
6	K1	18-22									√		
7	J2	23-26									√		
8	I6	27-28									√		
9	H3	29-31									√		
10	G2	32-33									√		
11	C4	34-36									√		
12	F2	37-39									√		
13	K2	40				√	√		√				
14	R3	NSD											
15	Y2	41-45									√		
16	Y3	46									√		
17	Q2	47-50									√		
18	J2	NSD											
19	E3	51-52									√		
20	Q2	53-55									√		
21	I3	56									√		
22	P2	57-58									√		
											Cellulose — 7 STR		
											Gypsum — 49 STR		
											Glass — 1 STR		

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

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):**	3600
Lab Group #:	9041	**Filter Type / Filter Area:**	MCE 385 mm²
Lab Sample #:	2	**Grid Opening Size:**	0.01124
Client Sample #:	05	**Area Examined:**	0.24728 mm²
GRID BOX:	1475	**Magnification:**	20,000
GRID ID:	2HJ	**Accelerating Voltage:**	100 KeV
# Grid Openings:	22	**Analysis Date:**	10/30/02

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	Y2	1-4									√		
2	R2	5-7									√		
3	K2	8-12									√		
4	F2	13-14									√		
5	E2	15-18									√		
6	J3	19									√		
7	Q2	20-21									√		
8	X2	NSD											
9	V2	NSD											
10	P2	22-24									√		
11	I2	25-29									√		
12	Y2	30-32									√		
13	R1	33-35									√		
14	K6	37-41									√		
15	F8	42-43									√		
16	E3	44-45									√		
17	J1	46-47									√		
18	Q2	NSD											
19	X2	48									√		
20	V2	49-51									√		
21	T8	52-58									√		
22	N8	59-60									√		
								Cellulose – 8 STR					
								Gypsum – 49 STR					
								Glass – 3 STR					

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

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):**	3600
Lab Group #:	9041	**Filter Type / Filter Area:**	MCE 385 mm²
Lab Sample #:	3	**Grid Opening Size:**	0.01124
Client Sample #:	06	**Area Examined:**	0.24728 mm²
GRID BOX:	1475	**Magnification:**	20,000
GRID ID:	3AC	**Accelerating Voltage:**	100 KeV
# Grid Openings:	22	**Analysis Date:**	10/30/02

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	G1	1									√		
2	M2	2									√		
3	T1	3-6									√		
4	N2	5-10									√		
5	H3	11-13									√		
6	C2	14-18									√		
7	D2	19-25									√		
8	I2	26-30									√		
9	P1	31-33									√		
10	V1	34-35									√		
11	X2	36-41									√		
12	Q2	42-43 √						42-43 √		JCAMPS			
13	J2	44									√		
14	E2	45-46									√		
15	F2	47-50									√		
16	R2	NSD											
17	R2	51-55									√		
18	V3	56									√		
19	P4	57									√		
20	I8	58-60									√		
21	F2	61									√		
22	K6	62-63									√		
							Cellulose – 9 STR						
							Gypsum – 51 STR						
							Glass – 3 STR						

3A

3C

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

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):**	3600
Lab Group #:	9041	**Filter Type / Filter Area:**	MCE 385 mm²
Lab Sample #:	4	**Grid Opening Size:**	0.01124
Client Sample #:	07	**Area Examined:**	0.24728 mm²
GRID BOX:	1475	**Magnification:**	20,000
GRID ID:	3E6	**Accelerating Voltage:**	100 KeV
# Grid Openings:	22	**Analysis Date:**	10/30/02

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	F2	1-3									✓		
2	K2	4-5									✓		
3	R2	6-13									✓		
4	Y2	14-15									✓		
5	X2	16-17									✓		
6	Q2	18									✓		
7	J2	19-21									✓		
8	E2	22-24									✓		
9	Q2	25									✓		
10	I2	26-27									✓		
11	P1	28									✓		
12	T2	29									✓		
13	N2	30									✓		
14	H1	31-32									✓		
3E 15	I2	33-36									✓		
16	P2	NSD											
17	V2	37		✓				✓	✓				
18	X2	38-39									✓		
19	Q2	40-41									✓		
20	J2	42-43									✓		
21	K3	44-45									✓		
22	R1	46-49									✓		
									Cellulose	— 6 STR.			
									Gypsum	— 4 STR			
									Glass	— 2 STR			

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

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):**	3600
Lab Group #:	9041	**Filter Type / Filter Area:**	MCE 385 mm²
Lab Sample #:	5	**Grid Opening Size:**	0.01124
Client Sample #:	08	**Area Examined:**	0.24728 mm²
GRID BOX:	1475	**Magnification:**	20,000
GRID ID:	3I4B	**Accelerating Voltage:**	100 KeV
# Grid Openings:	22	**Analysis Date:**	10/30/02

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	H1	1-2									√		
2	N1	3-4									√		
3	T2	5-7									√		
4	V2	8-10									√		
5	P2	11-13									√		
6	I2	14-18									√		
7	D1	19-23									√		
8	E2	24-25									√		
9	J3	26-27									√		
10	Q2	28									√		
11	X2	29-30									√		
12	F2	31-32									√		
13	K2	33		√				√	√				
14	R2	34-35									√		
4B 15	Y1	36-39									√		
16	X2	40-42									√		
17	Q2	43									√		
18	J2	NSD											
19	E2	NSD											
20	Q3	44-46									√		
21	I1	47-48									√		
22	P8	49-50									√		

Cellulose — 7 STR
Gypsum — 42 STR
Glass — 1 STR

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

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):**	3600
Lab Group #:	9041	**Filter Type / Filter Area:**	MCE 385 mm²
Lab Sample #:	6	**Grid Opening Size:**	0.01124
Client Sample #:	09	**Area Examined:**	0.24728 mm²
GRID BOX:	1475	**Magnification:**	20,000
GRID ID:	48F	**Accelerating Voltage:**	100 KeV
# Grid Openings:	22	**Analysis Date:**	10/30/02

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	T2	1-5									√		
2	N2	6-9									√		
3	H3	10		√				√	√				
4	C3	11-16									√		
5	D2	NSD											
6	I2	17-19									√		
7	P2	20									√		
8	V2	21-23									√		
9	X2	24-26									√		
10	Y2	27-29									√		
11	R1	30-36									√		
12	X2	37		√				√	√				
13	Q2	38		√				√	√				
14	J2	39-44									√		
15	E2	45-50									√		
16	Q2	51-58									√		
17	I2	59-65									√		
18	P2	66-73									√		
19	V3	74-78									√		
20	T2	79-87									√		
21	Y2	88-93									√		
22	R2	94		√				√	√				
								Cellulose	— 13		STR		
								Gypsum	— 80%		STR		
								Glass	— 1		STR		

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

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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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):**	3600
Lab Group #:	9041	**Filter Type / Filter Area:**	MCE 385 mm²
Lab Sample #:	7	**Grid Opening Size:**	0.01124
Client Sample #:	10	**Area Examined:**	0.24728 mm²
GRID BOX:	1475	**Magnification:**	20,000
GRID ID:	4HJ	**Accelerating Voltage:**	100 KeV
# Grid Openings:	22	**Analysis Date:**	10/30/02

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)
4H 1	JZ	1-3									√		
2	NZ	4-5									√		
3	H1	6									√		
4	CZ	7-8									√		
5	DZ	NSD									√		
6	IZ	NSD											
7	PZ	9-10									√		
8	VZ	11									√		
9	X1	12									√		
10	QZ	13	√					√	√				
		14-15									√		
11	JZ	16									√		
12	XZ	17-21									√		
13	QZ	22-25									√		
14	JZ	26-27									√		
4J 15	E1	NSD											
16	DZ	28-29									√		
17	I1	30-32									√		
18	PZ	33-34									√		
19	VZ	NSD									√		
20	JZ	35									√		
21	NZ	36				√	~		√				
		37-39									√		
22	H3	40-42					Cellulose — 6 STR				~~√~~		
							Gypsum — 32 STR						
							Glass — 2 STR						

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

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):**	3600
Lab Group #:	9041	**Filter Type / Filter Area:**	MCE 385 mm²
Lab Sample #:	8	**Grid Opening Size:**	0.01124
Client Sample #:	11	**Area Examined:**	0.24728 mm²
GRID BOX:	1475	**Magnification:**	20,000
GRID ID:	5AC	**Accelerating Voltage:**	100 KeV
# Grid Openings:	22	**Analysis Date:**	10/30/02

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	C2	1									√		
2	H3	2-3									√		
3	N2	4-5									√		
4	V2	9									√		
5	P2	10-11									√		
6	I2	12									√		
7	Q2	NSD									~~√~~		
8	E2	13-16									√		
9	J3	17									√		
10	Q3	18									√		
11	K4	19-21									√		
12	C2	22-23									√		
13	H1	24-26									√		
14	N1	27-28									√		
5C 15	T2	NSD											
16	N2	29-31									√		
17	P2	32-34									√		
18	I2	35-37									√		
19	J2	38-39									√		
20	Q2	40-43									√		
21	X2	44-46									√		
							Cellulose - 7 STR						
							Gypsum - 39 STR						

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

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):**	3600
Lab Group #:	9041	**Filter Type / Filter Area:**	MCE 385 mm²
Lab Sample #:	9	**Grid Opening Size:**	0.01124
Client Sample #:	12	**Area Examined:**	0.24728 mm²
GRID BOX:	1475	**Magnification:**	20,000
GRID ID:	5E6	**Accelerating Voltage:**	100 KeV
# Grid Openings:	22	**Analysis Date:**	10/30/02

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)
5E 1	T2	1-2									√		
2	N2	NSD											
3	H1	3									√		
4	C2	4									√		
5	O2	5				√	~		√				
		6		~				~	~				
		7-9									√		
6	I2	10-11									~		
7	P2	12-15									~		
8	V1	16									√		
9	X2	17-18									√		
10	Q2	NSD											
11	J2	19									√		
12	Y2	20		~				~	~				
		21									√		
5G 13	R2	22-24									√		
14	K2	NSD									~~√~~		
15	F2	25									√		
16	E3	26-28									√		
17	J2	NSD											
18	Q2	NSD											
19	X2	29-31									√		
20	P6	32									~		
21	I6	33-34							Cellulose - 4	STR	~		
									Gypsum - 26	STR			
									Glass - 1	STR			

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

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):**	3600
Lab Group #:	9041	**Filter Type / Filter Area:**	MCE 385 mm²
Lab Sample #:	10	**Grid Opening Size:**	0.01124
Client Sample #:	13	**Area Examined:**	0.24728 mm²
GRID BOX:	1475	**Magnification:**	20,000
GRID ID:	5I6B	**Accelerating Voltage:**	100 KeV
# Grid Openings:	22	**Analysis Date:**	10/30/02

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)
5I	1 Y2	1-3									√		
	2 R2	4-8									√		
	3 K2	9-10									√		
	4 J2	11-12									√		
	5 Q2	13-16									√		
	6 X2	16-21									√		
	7 V2	22-27									√		
	8 P2	28-31									√		
	9 I2	32-35									√		
	10 D2	36	√					√	√				
		37 38									√		
	11 C9	39		√				√	√				
	12 F2	40		√				√	√				
		41	√				√		√				
		44-43									√		
	13 K2	44-45									√		
6B	14 R1	46-49									√		
	15 Y2	50									√		
	16 X2	51		√				√	√				
		52									√		
	17 Q4	53-56									√		
	18 J2	57									√		
	19 E2	58-59									√		
	20 D6	60					Cellulose		- 8 STR		√		
	21 I1	61					Gypsum		~~-53 STR~~ 48 STR		√		

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

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):**	3600
Lab Group #:	9041	**Filter Type / Filter Area:**	MCE 385 mm²
Lab Sample #:	11	**Grid Opening Size:**	0.01124
Client Sample #:	14	**Area Examined:**	0.24728 mm²
GRID BOX:	1475	**Magnification:**	20,000
GRID ID:	6DF	**Accelerating Voltage:**	100 KeV
# Grid Openings:	22	**Analysis Date:**	10/30/02

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)
6D 1	C2	1-2									√		
2	H1	3									√		
3	N2	4									√		
4	T2	5									√		
5	V2	6-8									√		
6	P2	9									√		
7	J2	10-12									√		
8	D2	13									√		
9	E2	NSD											
10	S2	14									√		
11	Q2	15									√		
12	Y2	16									√		
13	R2	NSD											
6F 14	K2	17									√		
15	F4	18									√		
16	E8	19									√		
17	J4	NSD											
18	Q3	20-21									√		
19	X1	NSD											
20	V2	22				√	√		√				
21	P2	23-25									√		
							Cellulose		– 3 STR				
							Gypsum		– 21 STR				

^ Photo No. (from 1 in 5 asbestos containing samples)
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):**	3600
Lab Group #:	9041	**Filter Type / Filter Area:**	MCE 385 mm²
Lab Sample #:	12	**Grid Opening Size:**	0.01124
Client Sample #:	15	**Area Examined:**	0.24728 mm²
GRID BOX:	1475	**Magnification:**	20,000
GRID ID:	6HJ	**Accelerating Voltage:**	100 KeV
# Grid Openings:	22	**Analysis Date:**	10/30/02

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	T2	1									✓		
2	N2	NSD									✓		
3	H1	2-3									✓		
4	I4	NSD											
5	P2	4									✓		
6	V1	NSD											
7	X2	NSD											
8	Q2	5-6									✓		
9	J3	NSD											
10	E2	NSD											
11	F4	NSD											
12	T2	NSD											
13	N3	7-8									✓		
14	H3	9-10									✓		
15	I2	11-12									✓		
16	J2	13									✓		
17	Q2	14-15									✓		
18	X2	NSD											
19	Y2	10									✓		
20	R2	11				✓		✓	✓				
		12									✓		
21	K2	13									✓		
22	L2	14-17									✓		
							Cellulose - 4 STR						
							Gypsum - 12 STR						

^ Photo No. (from 1 in 5 asbestos containing samples)
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):**	3600
Lab Group #:	9041	**Filter Type / Filter Area:**	MCE 385 mm²
Lab Sample #:	13	**Grid Opening Size:**	0.01124
Client Sample #:	16	**Area Examined:**	0.24728 mm²
GRID BOX:	1475	**Magnification:**	20,000
GRID ID:	7A-C	**Accelerating Voltage:**	100 KeV
# Grid Openings:	22	**Analysis Date:**	10/30/02

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 C2	1-2									√		
	2 H1	NSD											
	3 N2	3									√		
	4 T2	4									√		
	5 V2	5									√		
	6 P2	6									√		
	7 I2	7-9									√		
	8 D2	10-11									√		
	9 E2	12				√		√	√				
		13-14									√		
	10 J2	15-16									√		
	11 Q2	17-19									√		
	12 T2	NSD											
	13 N2	20									√		
	14 H1	21-22									√		
7C	15 C2	23									√		
	16 D2	24									√		
	17 I2	25-28									√		
	18 P2	29-30									√		
	19 V2	31									√		
	20 X2	32									√		
	21 Q3	33-36									√		
	22 X2	37									√		
							Cellulose		- 5 STR				
							Gypsum		30 STR				
							Glass		- 1 STR				

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

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):**	3600
Lab Group #:	9041	**Filter Type / Filter Area:**	MCE 385 mm²
Lab Sample #:	14	**Grid Opening Size:**	0.01124
Client Sample #:	17	**Area Examined:**	0.24728 mm²
GRID BOX:	1475	**Magnification:**	20,000
GRID ID:	7EG	**Accelerating Voltage:**	100 KeV
# Grid Openings:	22	**Analysis Date:**	10/30/02

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)
7E 1	F1	1-2									√		
2	K2	3-4									√		
3	R2	5									√		
4	Y2	NSD											
5	X2	6									√		
6	Q2	7									√		
7	J2	NSD											
8	E2	8-9									√		
9	W2	10									√		
10	I2	11-12									√		
11	P2	13-14									√		
12	Y2	15									√		
13	R2	16									√		
14	K2	17-18									√		
15	F2	19-21									√		
16	E2	22-24									√		
17	J2	25-26									√		
18	Q2	27									√		
19	K2	28									√		
20	V2	29									√		
21	P2	NSD									√		
22	I2	30									√		
							Cellulose		- 4 STR				
							Gypsum		- 24 STR				
							Glass		- 2 STR				

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

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):**	3600
Lab Group #:	9041	**Filter Type / Filter Area:**	MCE 385 mm²
Lab Sample #:	15	**Grid Opening Size:**	0.01124
Client Sample #:	18	**Area Examined:**	0.24728 mm²
GRID BOX:	1475	**Magnification:**	20,000
GRID ID:	7I8B	**Accelerating Voltage:**	100 KeV
# Grid Openings:	22	**Analysis Date:**	10/30/02

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)
7I 1	T2	1									√		
2	N2	2-3									√		
3	H3	4									√		
4	C3	NSD											
5	Q2	5-6									√		
6	I2	7									√		
7	P2	NSD											
8	V2	8				√	√		√				
		9-10									√		
9	X2	NSD									√		
10	Q2	11											
11	J2	NSD											
12	F8	12-13									√		
13	K8	14-16									√		
14	R8	17				√			√		√		
8B 15	Y8	18									√		
16	Q2	19-20									√		
17	J2	21									√		
18	E2	22									√		
19	Q2	23-25									√		
20	I2	26-28									√		
21	P2	29-30									√		
22	V1	31									√		
							cellulose			4 STR			
							gypsum			25 STR			

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

Struct = > 0.5µ > 5:1 Aspect Ratio

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

v= 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):**	3600
Lab Group #:	9041	**Filter Type / Filter Area:**	MCE 385 mm²
Lab Sample #:	16	**Grid Opening Size:**	0.01124
Client Sample #:	19	**Area Examined:**	0.24728 mm²
GRID BOX:	1475	**Magnification:**	20,000
GRID ID:	8DF	**Accelerating Voltage:**	100 KeV
# Grid Openings:	22	**Analysis Date:**	10/30/02

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)
8D 1 T1	1-6									√		
2 N2	7-18									√		
3 H1	19	√				√		√				
	20				√	√		√				
	21-27									√		
4 C2	28	√					√	√				
	29				√		√	√				
	30-35									√		
5 D2	36-44									√		
6 I2	45-54									√		
7 P2	55-60									√		
8 V2	61-75									√		
9 X2	76-82									√		
10 Q2	83				√		√	√				
	84				√	√		√				
	85-96											
11 J1	97				√	√		√				
	98-106									√		
12 F2	107				√		√	√				
	108				√	√		2				
	109				√		√	√				
8F	110-117									√		
13 K2	118		√				√	√				
	119-126									√		
14 R6	127-132									√		
15 Y2	133		√			√		√				

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

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):**	3600
Lab Group #:	9041	**Filter Type / Filter Area:**	MCE 385 mm²
Lab Sample #:	16	**Grid Opening Size:**	0.01124
Client Sample #:	19	**Area Examined:**	0.04496 mm²
GRID BOX:	1475	**Magnification:**	20,000
GRID ID:	80F	**Accelerating Voltage:**	100 KeV
# Grid Openings:	422	**Analysis Date:**	10/30/02

Analysis Performed By: RP
ROMAN PEYSAKHOV

cont

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)
		134-136	√				√√√		√				
		137-141									√		
16	X2	142	√				√		√				
		143-153									√		
17	Q2	154	√				√		√				
		155-163									√		
18	J3	164-167	√				√√√		√				
		168-179									√		
19	E1	180					√		√				
		181-190									√		
20	D1	191-204									√		
21	I2	205				√	√		√				
		206		√			√		√				
		207-209	√				√√√		√				
		210-219									√		
22	P1	220		√				√	√				
		221	√					√	√				
		222-224				√	√√		√				
		225-231									√		

NYC 9/11 Public Portal Document

TEM Asbestos (air) Count Sheet

Client Name:	ATC	**Volume (liters):**	3600
Lab Group #:	9041	**Filter Type / Filter Area:**	MCE 385 mm²
Lab Sample #:	17	**Grid Opening Size:**	0.01124
Client Sample #:	20	**Area Examined:**	0.24728 mm²
GRID BOX:	1475	**Magnification:**	20,000
GRID ID:	8HJ	**Accelerating Voltage:**	100 KeV
# Grid Openings:	22	**Analysis Date:**	10/30/02

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)
8H	1 C2	1-2				√	√√		√				
		3-6									√		
	2 H1	7-11									√		
	3 N1	12-21									√		
	4 T2	22				√	√		√				
		23-29									√		
	5 V2	30	√				√		√				
		31-38									√		
	6 P2	39		√				√	√				
		40-49									√		
	7 J2	50-55									√		
	8 Q2	56-63									√		
	9 E2	64-65									√		
	10 J1	66-70									√		
	11 Q3	71				√	√		√				
		72-76									√		
	12 T2	77-83									√		
	13 N2	84				√	√		√				
		85-91									√		
8J	14 H1	92				√	√		√				
		93-100									√		
	15 C2	101		√				√	√				
		102-108									√		
	16 Q2	105				√	√		√				
		109-117									√		
	17 I2	118				√	√		√				

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

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

PHASE CONT

TEM Asbestos (air) Count Sheet

Client Name:	ATC	**Volume (liters):**	3600
Lab Group #:	9041	**Filter Type / Filter Area:**	MCE 385 mm²
Lab Sample #:	17	**Grid Opening Size:**	0.01124
Client Sample #:	20	**Area Examined:**	0.04496 mm²
GRID BOX:	1475	**Magnification:**	20,000
GRID ID:	8HJ	**Accelerating Voltage:**	100 KeV
# Grid Openings:	422	**Analysis Date:**	10/30/02

Analysis Performed By: RP
ROMAN PEYSAKHOV

cont

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)
8J	9	119		√				√	√				
		120-127									√		
18	P1	128				√	√		√				
		129				√	√		√				
		130				√	√		√				
		131				√	√		√				
		132-140									√		
19	V2	141		√			√		√				
		142				√	√		√				
		143-149									√		
20	X2	150				√	√		√				
		151-159									√		
21	Q2	160-167									√		
22	J2	168-177									√		
		TOTAL					16	3					

Cellulose — 21 STR
Gypsum — 130 STR
Glass — 7 STR

^ Photo No. (from 1 in 5 asbestos containing samples)
Struct = > 0.5µ > 5:1 Aspect Ratio
√= Positive diffraction pattern properties conforming to laboratory identification criteria observed
√= EDS spectrum conforming to laboratory identification critena 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

PAGE 1 OF 2

TEM Asbestos (air) Count Sheet

Client Name:	ATC	**Volume (liters):**	3600
Lab Group #:	9041	**Filter Type / Filter Area:**	MCE 385 mm²
Lab Sample #:	18	**Grid Opening Size:**	0.01124
Client Sample #:	21	**Area Examined:**	0.24728 mm²
GRID BOX:	1475	**Magnification:**	20,000
GRID ID:	9AC	**Accelerating Voltage:**	100 KeV
# Grid Openings:	22	**Analysis Date:**	10/30/02

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	D2	1				√	√		√				
		2-4									√		
2	I2	5-9									√		
3	P2	10-11									√		
4	V2	12		√				√	√				
		13-15									√		
5	X2	16				√	√		√				
		17-19									√		
6	Q2	20				√		√	√				
		21-28									√		
7	J2	29-30									√		
8	E2	31	√				√		√				
		32				√	√		√				
		33-34									√		
9	F1	35-36									√		
10	K2	37		√				√	√				
		38-40									√		
11	R1	41				√	√		√				
		42-45									√		
12	T2	46-48	√				√√		√				
		49-54									√		
13	N1	55-56									√		
9C 14	H1	57			:	√	√		√				
		58-62									√		
15	C3	63				√	√		√				
		64-67									√		

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

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

PAGE 2 OF 6

TEM Asbestos (air) Count Sheet

Client Name:	ATC	**Volume (liters):**	3600
Lab Group #:	9041	**Filter Type / Filter Area:**	MCE 385 mm²
Lab Sample #:	18	**Grid Opening Size:**	0.01124
Client Sample #:	21	**Area Examined:**	0.04496 mm²
GRID BOX:	1475	**Magnification:**	20,000
GRID ID:	9AC	**Accelerating Voltage:**	100 KeV
# Grid Openings:	22	**Analysis Date:**	10/30/02

Analysis Performed By: RP
ROMAN PEYSAKHOV

count

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)
9C 16	Q2	68-73									√		
17	I1	74-77									√		
18	P2	78	√					√	√				
		79-86									√		
19	V2	87-93									√		
20	X2	94-98									√		
21	Q3	99				√	2		√				
		100-102									√		
22	J3	103-107									√		
		TOTAL					11	4					

Cellulose – 13 STR
Gypsum – 77 STR
Glass – 2 STR

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

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

PAGE 1 OF 2

TEM Asbestos (air) Count Sheet

Client Name:	ATC	**Volume (liters):**	3600
Lab Group #:	9041	**Filter Type / Filter Area:**	MCE 385 mm²
Lab Sample #:	19	**Grid Opening Size:**	0.01124
Client Sample #:	22	**Area Examined:**	0.24728 mm²
GRID BOX:	1475	**Magnification:**	20,000
GRID ID:	9EG	**Accelerating Voltage:**	100 KeV
# Grid Openings:	22	**Analysis Date:**	10/30/02

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)
9E 1	FZ	1			√		√		√				
		2-6									√		
2	KZ	7				√		√	√				
		8-15									√		
3	RZ	16-18									√		
4	YZ	19-25									√		
5	XZ	26	√				√		√				
		27-33									√		
6	QZ	34	√				√		√				
		35-41									√		
7	JZ	42-51									√		
8	EZ	52-63									√		
9	DZ	64-75									√		
10	IZ	76	√				√		√				
		77-84									√		
11	PZ	85				√	√		√				
		86-92									√		
12	D3	93		√				√	√				
		94				√	√		√				
		95-99									√		
9G 13	IZ	100			1	√	√		√				
		101				√	√		√				
		102-106									√		
14	PZ	107		√			√		√				
		108-116									√		
15	VY	117		√				√	√				

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

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):**	3600
Lab Group #:	9041	**Filter Type / Filter Area:**	MCE 385 mm²
Lab Sample #:	19	**Grid Opening Size:**	0.01124
Client Sample #:	22	**Area Examined:**	0.24728 mm²
GRID BOX:	1875	**Magnification:**	20,000
GRID ID:	9EG	**Accelerating Voltage:**	100 KeV
# Grid Openings:	22	**Analysis Date:**	10/30/02

Analysis Performed By: ROMAN PEYSAKHOV

count

SG

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)
		118-123									√		
16	XZ	124				√	√		√				
		125-134									√		
17	QZ	135-138									√		
18	JZ	139	√				√		√				
		140				√		√	√				
		141-147									√		
19	EZ	148-150									√		
20	FZ	151				√	√		√				
		152		√				√	√				
		153-160									√		
21	KZ	161				√	√		√				
		162-170									√		
22	R7	171		√				√	√				
		172				√	√		√				
		173-180									√		
									Cellulose	—		22	STR
									Gypsum	—		134	STR
									Glass	—		4	STR
		TOTAL:					14	6					

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

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
Tremoilte
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):**	3600
Lab Group #:	9041	**Filter Type / Filter Area:**	MCE 385 mm²
Lab Sample #:	20	**Grid Opening Size:**	0.01124
Client Sample #:	23	**Area Examined:**	0.24728 mm²
GRID BOX:	1475	**Magnification:**	20,000
GRID ID:	9I10B	**Accelerating Voltage:**	100 KeV
# Grid Openings:	22	**Analysis Date:**	10/30/02

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)
9I	1 T2	1-6									√		
	2 N2	7-8									√		
	3 H3	9-12									√		
	4 C2	13				√	√		√				
		14-18									√		
	5 D2	19				√	√		√				
		20-24									√		
	6 J2	25-27									√		
	7 P2	28-30									√		
	8 V2	31-34									√		
	9 X2	35-39									√		
	10 Q2	40		√				√	√				
		41-45									√		
	11 J3	46									√		
	12 F2	47-49									√		
	13 K2	50-53									√		
	14 R2	54-58									√		
10B	15 Y2	59-64									√		
	16 X2	65-68									√		
	17 Q2	69	√				√			√	√		
		70-76									√		
	18 X2	77-81									√		cellulose - 12 S
	19 V2	82-85									√		Gypsum - 14 ST
	20 P1	86-88									√		Glass - 4 S
	21 I2	89-93									√		
	22 D1	94									√		

^ Photo No. (from 1 in 5 asbestos containing samples) T3 PC 3 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-WTC_000131521

NYC 9/11 Public Portal Document

ATC ASSOCIATES INC.

AIR MONITORING DATA AND CHAIN OF CUSTODY FORM

Page 1 of 4

90411 20823 4544-4566

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:
DEP	DEP Clean-up	15-22906-0002	E. Lemanovich	HR-22
	2a. Project Address: 125 Cedar St NY	3a. Task # 00001	4a. Air Sampler: T. Austislavskiy	

5. Date:	6. Abatement Location:	7. ☑ PCM (0.8 micron MCE)	8. ☐ TEM (0.45 micron MCE)	9. Type:
10.28.02	Apartments: #9S, 8N, 3S, 2N	Cassette/Filter Manufacture: Lot # 01344108	Cassette/Filter Manufacture: MMI Lot # 01206416	a. ☐ Background b. ☐ Pre-Abate c. ☐ Abatement d. ☐ Post-Abate e. ☐ OSHA f. ☐ Environmental g. ☐ Ambient h. ☑ Other cleaning

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, 03				Field Blank								0/100	
04		V		Apartment #9 South	20:30	02:30	360	10	10	10	3600	1/100	<0.001
05		V		— " —	20:32	02:32	360	10	10	10	3600	30/100	0.004
06		V		— " —	20:34	02:34	360	10	10	10	3600	33/100	0.004
07		V		— " —	20:36	02:36	360	10	10	10	3600	40/100	0.005
08		V		— " —	20:38	02:38	360	10	10	10	3600	35/100	0.005
09		V		Apartment #8 North	20:55	02:55	360	10	10	10	3600	37/100	0.005

CHAIN OF CUSTODY

18. Relinquished By:	19. Received By:	20. Date:	21. Time:
I E Lemanovich	A. Elbert	10.29.02	7:00
II			
III			

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

22. Lab Name: PCM Lab	23. Date:	24. Time:
a. Analyzed By: A-Elbert	10/30/02	16:00
b. QC By:		
c. Lab Batch #: 101821		

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

Analysis Methodology
PCM - NIOSH 7400A
TEM - AHERA

26. ATC Project Manager: B. Salleemi

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

28. Comments:

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

NY-1 (1/01)

NYC-WTC_00013152

AIR MONITORING DATA AND CHAIN OF CUSTODY FORM

ATC ASSOCIATES INC.

9011

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:
DEP	DEP Clean-up	15-22906-0002	E. Lemanovich	HR-22
	2a. Project Address: 125 Cedar St NY	3a. Task # 00001	4a. Air Sampler: T. Anastislavskiy	

5. Date:	6. Abatement Location:	7. ☑ PCM (0.8 micron MCE)	8. ☐ TEM (0.45 micron MCE)	9. Type:	
10.22.02	Apartments: # 9S, 8N, 3S, 2N	Cassette/Filter Manufacture: Lot # 01344108	Cassette/Filter Manufacture: Lot #	a. ☐ Background b. ☐ Pre-Abate	c. ☐ Abatement d. ☐ Post-Abate e. ☐ OSHA f. ☐ Environmental g. ☐ Ambient h. ☑ Other Cleanup

DAILY AIR SAMPLE RECORD

10. Sample I.D. Number	11. Pump Number	12. Sample Location			13. Time (24 hrs clock)			14. Flow Rate (L/min.)			15. Total Air Vol. (liters)	16. # Fibers/Fields Minus Blank	17. Fiber Conc. f/CC
		12a. IWA	12b. OWA	12c. Sample Coordinates	13a. Start	13b. End	13c. Total	14a. Start	14b. End	14b. Avg			
				Field Blank									
				Field Blank									
10		V		Apartment H & North	20:57	02:57	360	10	10	10	3600	28/100	0.004
11		V		— " —	20:59	02:59	360	10	10	10	3600	23/100	0.003
12		V		— " —	21:01	03:01	360	10	10	10	3600	22/100	0.003
13		V		— " —	21:03	03:03	360	10	10	10	3600	33/100	0.004
14		V		Apartment # 3 South	21:20	03:20	360	10	10	10	3600	23/100	0.003
15		V		— " —	21:22	03:22	360	10	10	10	3600	25/100	0.003

CHAIN OF CUSTODY

18. Relinquished By:	19. Received By:	20. Date:	21. Time:
I E. Lemanovich	A. Elbert	10.29.02	~~Time~~
II			
III			

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

22. Lab Name: PCM Lab	23. Date:	24. Time:
a. Analyzed By: A. Elbert	10/29/02	16:00
b. QC By:		
c. Lab Batch #: 101821		

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

Analysis Methodology
PCM - NIOSH 7400/A
TEM - AHERA

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

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

NY 1 (1/01)

NYC 9/11 Public Portal Document

NYC-WTC_000131523

NYC 9/11 Public Portal Document

ATC ASSOCIATES INC.

AIR MONITORING DATA AND CHAIN OF CUSTODY FORM

9041

TURNAROUND TIME

[ ] 2 hrs [ ] 6 hrs [ ] 48 hrs [ ] Standard
[ ] 4 hrs [ ] 24 hrs [ ] 72 hrs [ ] Other

PROJECT INFORMATION

1. Client: DEP
2. Project Name: DEP Clean-up
2a. Project Address: 125 Cedar St NY
3. Project #: 15-22906-0002
3a. Task #: 00001
4. Project Monitor: E. Lemanovich
4a. Air Sampler: T. Amstislavskiy
4c. Rotameter Number: HR-22
5. Date: 10.28.02
6. Abatement Location: Apartments: # 9S, 8N, 3S, 2N
7. [✓] PCM (0.8 micron MCE) Cassette/Filter Manufacture ____ Lot # 01344108
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 Cleaning

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									
16		✓		Apartment # 3 South	21:24	03:24	360	10	10	10	3600	14/100	0.002
17		✓		— " —	21:26	03:26	360	10	10	10	3600	15/100	0.002
18		✓		— " —	21:28	03:28	360	10	10	10	3600	11/100	0.001
19		✓		Apartment # 2 North	21:45	03:45	360	10	10	10	3600	100/96	0.014
20		✓		— " —	21:47	03:47	360	10	10	10	3600	69/100	0.009
21		✓		— " —	21:49	03:49	360	10	10	10	3600	46/100	0.006

CHAIN OF CUSTODY

18. Relinquished By:	19. Received By:	20. Date:	21. Time:
I E. Lemanovich	A. Elkant	10.29.02	7:00 am
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 #: 101821		

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

Analysis Methodology
PCM - NIOSH 7400A
TEM - AHERA

26. ATC Project Manager: B. Sallemi

27. Result To: B. Sallemi
Beeper/Phone #'s ____

28. Comments:

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

NY-1 (1/01)

NYC-WTC_000131524

NYC 9/11 Public Portal Document

ATC ASSOCIATES INC.

AIR MONITORING DATA AND CHAIN OF CUSTODY FORM

9041

TURNAROUND TIME
[ ] 2 hrs [ ] 6 hrs [ ] 48 hrs [ ] Standard
[ ] 4 hrs [ ] 24 hrs [ ] 72 hrs [ ] Other

PROJECT INFORMATION

1. Client: DEP	2. Project Name: DEP. Clean-up 2a. Project Address: 125 Cedar St. NY	3. Project #: 15-22906-0002 3a. Task #: 00001	4. Project Monitor: E. Lemanovich 4a. Air Sampler: T. Amstislavskiy	4c. Rotameter Number: HR-22
5. Date: 10.28.02	6. Abatement Location: Apartments: #9S, 8N, 3S, 2N	7. [✓] PCM (0.8 micron MCE) Cassette/Filter Manufacture ____ Lot # 01344108	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 Cleaning

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									
22		✓		Apartment # 2North	21:51	03:51	360	10	10	10	3600	100/97	0.014
23		✓		— " —	21:53	03:53	360	10	10	10	3600	69/100	0.009

CHAIN OF CUSTODY

18. Relinquished By:	19. Received By:	20. Date:	21. Time:
I E. Lemanovich	A. Elbert	10.29.02	7:00 Tam
II			
III			

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

22. Lab Name: PCM Lab	23. Date:	24. Time:
a. Analyzed By: A. Elbert	10/29/02	16:00
b. QC By:		
c. Lab Batch #: 101821		

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

Analysis Methodology
PCM - NIOSH 7400A
TEM - AHERA

26. ATC Project Manager: B. Sallemi

27. Result To: B. Sallemi
Beeper/Phone #'s ____

28. Comments:

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

NY-1 (1/01)

NYC-WTC_00013152S

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:
DEP	DEP Cleanup	23906-02		MP-22
	2a. Project Address: 25 Cedar St NY	3a. Task # 02	4a. Air Sampler: Tim Anstislavsky	

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

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									
37				3 FL APT 3 North	1055	1655	360	10	10	10	3600	15/100	0.002
38				11	1056	1656	360	10	10	10	3600	20/100	0.003
39				11	1058	1658	360	10	10	10	3600	9/100	<0.001
40				3FL Hallway	1100	1700	360	10	10	10	3600	8/100	<0.001
41				Stairwell between 7FL & 8FL.	1608	2208	360	10	10	10	3600	5/100	<0.001
42				7 FL Laundry room	1609	2210	361	10	10	10	3610	5/100	<0.001
43				6 FL Hallway	1610	2212	362	10	10	10	3620	4/100	<0.001

CHAIN OF CUSTODY

18. Relinquished By:	19. Received By:	20. Date:	21. Time:
	E. A. Charles	10/28/02	0120
I			
II			

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

22. Lab Name:	23. Date:	24. Time:
a. Analyzed By: E. A. Charles	10/28/02	0700
b. QC By:		
c. Lab Batch #: 101800		

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

Analysis Methodology
☑ PCM - NIOSH 7400A
TEM - AHERA

26. ATC Project Manager: B. Sellemi

27. Result To: B. Sellemi
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_000131526

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:
DEP	DEP clean up 2a. Project Address 123 Cedar St NY NY	22906-02 3a. Task #	4a. Air Sampler: Tim Anastasiowski	UP 22

5. Date:	6. Abatement Location:	7. ☑ PCM (0.8 micron MCE)	8. ☐ TEM (0.45 micron MCE)	9. Type:	
10.02.02	Entire	Cassette/Filter Manufacture MMI Lot # 0134104	Cassette/Filter Manufacture X Lot #	a. ☐ Background b. ☐ Pre-Abate	c. ☐ Abatement d. ☐ Post-Abate e. ☐ OSHA f. ☐ Environmental g. ☐ Ambient h. ☒ Other Clearance

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	
B-2				Field Blank								0/100	
1				9FL AP+ 9 North	845	1515	390	10	10	10	3900	2/100	<0.001
2				11	846	1516	390	10	10	10	3900	2/100	<0.001
3				11	848	1518	390	10	10	10	3900	3/100	<0.001
4				11	849	1519	390	10	10	10	3900	2/100	<0.001
5				11	850	1520	390	10	10	10	3900	2/100	<0.001
6				9FL Hallway.	852	1522	390	10	10	10	3900	2/100	<0.001
7				8FL AP+ 8 South	908	1528	380	10	10	10	3800	3/100	<0.001
8				11	909	1529	380	10	10	10	3800	3/100	<0.001
9				11	910	1530	380	10	10	10	3800	2/100	<0.001
10				11	912	1532	380	10	10	10	3800	1/100	<0.001
11				11	913	1533	380	10	10	10	3800	1/100	<0.001
12				8FL Hallway.	915	1535	380	10	10	10	3800	2/100	<0.001

CHAIN OF CUSTODY

	18. Relinquished By:	19. Received By:	20. Date:	21. Time:
I		E. A. Anastasiowski	10/28/02	0120
II				
III				

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

22. Lab Name:	23. Date:	24. Time:
a. Analyzed By: E. A. Anastasiowski	10/28/02	0700
b. QC By:		
c. Lab Batch #: 101800		

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

Analysis Methodology
☒ PCM - NIOSH 7400A
TEM - AHERA

26. ATC Project Manager: B. Sollecito

27. Result To: B. Sollecito
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_00013152B

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:
DEP	DEP Clean up	22906-02		
	2a. Project Address: 125 Cedar St NY NY	3a. Task # 01	4a. Air Sampler: Tim Amstislovsky	RD-22

5. Date:	6. Abatement Location:	7. ☑ PCM (0.8 micron MCE)	8. ☐ TEM (0.45 micron MCE)	9. Type:	
10.27.02	Entire	Cassette/Filter Manufacture NMI Lot # 01344108	Cassette/Filter Manufacture X Lot #	a. ☐ Background b. ☐ Pre-Abate	c. ☐ Abatement d. ☐ Post-Abate e. ☐ OSHA
					f. ☐ Environmental g. ☐ Ambient h. ☒ Other Clean up

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-5				Field Blank								0/100	
				Field Blank									
13				7 FL APT 7 South	930	1540	370	10	10	10	3700	3/100	< 0.001
14				"	931	1541	370	10	10	10	3700	2/100	< 0.001
15				"	932	1542	370	10	10	10	3700	2/100	< 0.001
16				"	934	1543	370	10	10	10	3700	1/100	< 0.001
17				"	935	1545	370	10	10	10	3700	2/100	< 0.001
18				7 FL APT 7 North	930	1600	370	10	10	10	3700	2/100	< 0.001
19				"	951	1601	370	10	10	10	3700	2/100	< 0.001
20				"	952	1602	370	10	10	10	3700	2/100	< 0.001
21				"	953	1603	370	10	10	10	3700	2/100	< 0.001
22				"	954	1604	370	10	10	10	3700	2/100	< 0.001
23				7 FL Hallway	956	1606	370	10	10	10	3700	3/100	< 0.001
24				5 FL APT 5 South	1012	1612	360	10	10	10	3600	2/100	< 0.001

CHAIN OF CUSTODY

	18. Relinquished By:	19. Received By:	20. Date:	21. Time:
I		E. A. Cuadra	10/28/02	0120
II				
III				

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

22. Lab Name:	23. Date:	24. Time:
a. Analyzed By: E. A. Cuadra	10/28/02	0700
b. QC By:		
c. Lab Batch #: 101800		

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:
B. Sollami	B. Sollami	
	Beeper/Phone #'s	

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

NY-1 (1/01)

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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: DEP
2. Project Name: DEP Clean up
2a. Project Address: 125 Cedar St NY NY
3. Project #: 22906-02
3a. Task #: 02
4. Project Monitor:
4a. Air Sampler: Yiwe Anstislavskiy
4c. Rotameter Number: HP-22
5. Date: 10-2-02
6. Abatement Location: Entire
7. ☑ PCM (0.8 micron MCE) Cassette/Filter Manufacture: MMI Lot #:
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 Cleanup

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								0/100	
B-4				Field Blank								0/100	
25				5FL APt 5 South	1013	1613	360	10	10	10	3600	3/100	<0.001
26				"	1014	1614	360	10	10	10	3600	2/100	<0.001
27				"	1015	1615	360	10	10	10	3600	2/100	<0.001
28				"	1016	1616	360	10	10	10	3600	1/100	<0.001
29				5FL APt 5 North	1031	1631	360	10	10	10	3600	2/100	<0.001
30				"	1032	1632	360	10	10	10	3600	2/100	<0.001
31				"	1033	1633	360	10	10	10	3600	3/100	<0.001
32				"	1035	1635	360	10	10	10	3600	3/100	<0.001
33				"	1036	1636	360	10	10	10	3600	1/100	<0.001
34				5 FL Hallway	1038	1638	360	10	10	10	3600	2/100	<0.001
35				3 FL APt 3 North	1053	1653	360	10	10	10	3600	27/100	0.004
36				"	1054	1654	360	10	10	10	3600	20/100	0.003

CHAIN OF CUSTODY

18. Relinquished By:	19. Received By:	20. Date:	21. Time:
I [signature]	E. A. Cu[illegible]	10/24/02	0120
II			
III			

26. ATC Project Manager: R. S[illegible]
27. Result To: B. Sallemi

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

22. Lab Name:	23. Date:	24. Time:
a. Analyzed By: E. A. Cu[illegible]	10/24/02	0700
b. QC By:		
c. Lab Batch #: 101800		

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

28. Comments:

Analysis Methodology

NYC 9/11 Public Portal Document

NYC 9/11 Public Portal Document

ATC ASSOCIATES INC.

104 East 25th St., 10th
New York, New York
www.atc-envir
212.353
Fax 212.353

October 29, 2002

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

Attn: Mr. Ben Sallemi

Re: Report of TEM Analysis

Dear Mr. Sallemi:

Following are the results of transmission electron microscopy (TEM) analysis of air samples from our Group No. 9035:

Client: D.E.P.
Project Name: D.E.P. Clean-up, 125 Cedar St., NY, NY
Location: Entire Building
Samples received: 10/28/02

These results will confirm and document the data transmitted today to your office. The analyses were performed in conformance with the methodology of the AHERA Final Rule (CFR October 30, 1987) for clearance of abatement sites.

The results of the sample analyses may be found on the attached document.

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.

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-WTC_000131532

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: Benjamin Sallemi
ATC Associates Inc.
104 East 25th Street
New York NY 10010

Fax: (212) 353-3599 **Phone:** (212) 353-8280

Project: DEP Clean-up ATC Project #: 22906-0002
125 Cedar Street, New York, NY

Received: 10/28/02 1:20:00 AM
ATC Group #: 9035
Analysis Date: 10/29/02

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

Sample	*Volume*	*Area Analyzed*	*Non Asb*	*Asbestos Type(s)*	*# Structures 0.5μ-5*	*5μ*	*Analytical Sensitivity (S/cc)*	*Total Asbestos Concentration (S/mm²)*	*(S/cc)*	*Asbestos Concentration (S > 5μ/cc)*
1 *9035 -1*	3900.00	0.2473	0	None Detected	0	0	0.0004	<4.04	<0.0004	< 0.0004
2 *9035 -2*	3900.00	0.2473	1	None Detected	0	0	0.0004	<4.04	<0.0004	< 0.0004
3 *9035 -3*	3900.00	0.2473	1	None Detected	0	0	0.0004	<4.04	<0.0004	< 0.0004
4 *9035 -4*	3900.00	0.2473	0	None Detected	0	0	0.0004	<4.04	<0.0004	< 0.0004
5 *9035 -5*	3900.00	0.2473	0	None Detected	0	0	0.0004	<4.04	<0.0004	< 0.0004
6 *9035 -6*	3900.00	0.2473	2	None Detected	0	0	0.0004	<4.04	<0.0004	< 0.0004
7 *9035 -7*	3800.00	0.2473	2	None Detected	0	0	0.0004	<4.04	<0.0004	< 0.0004

ROMAN 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-WTC_000131533

NYC 9/11 Public Portal Document

Attn: Benjamin Sallemi
ATC Associates Inc.
104 East 25th Street
New York NY 10010
Fax: (212) 353-3599 **Phone:** (212) 353-8280

Received: 10/28/02 1:20:00 AM
ATC Group #: 9035
Analysis Date: 10/29/02

Project: DEP Clean-up ATC Project #: 22906-0002
125 Cedar Street, New York, NY

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

Sample	*Volume*	*Area Analyzed*	*Non Asb*	*Asbestos Type(s)*	*# Structures 0.5µ-5*	*5µ*	*Analytical Sensitivity (S/cc)*	*Total Asbestos Concentration (S/mm²)*	*(S/cc)*	*Asbestos Concentration (S > 5µ/cc)*
8 *9035 -8*	3800.00	0.2473	2	None Detected	0	0	0.0004	<4.04	<0.0004	< 0.0004
9 *9035 -9*	3800.00	0.2473	2	None Detected	0	0	0.0004	<4.04	<0.0004	< 0.0004
10 *9035 -10*	3800.00	0.2473	2	None Detected	0	0	0.0004	<4.04	<0.0004	< 0.0004
11 *9035 -11*	3800.00	0.2473	0	None Detected	0	0	0.0004	<4.04	<0.0004	< 0.0004
12 *9035 -12*	3800.00	0.2473	0	None Detected	0	0	0.0004	<4.04	<0.0004	< 0.0004
13 *9035 -13*	3700.00	0.2473	1	None Detected	0	0	0.0004	<4.04	<0.0004	< 0.0004
14 *9035 -14*	3700.00	0.2473	3	None Detected	0	0	0.0004	<4.04	<0.0004	< 0.0004
15 *9035 -15*	3700.00	0.2473	0	None Detected	0	0	0.0004	<4.04	<0.0004	< 0.0004
16 *9035 -16*	3700.00	0.2473	0	None Detected	0	0	0.0004	<4.04	<0.0004	< 0.0004

ROMAN 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.

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NYC-WTC_000131534

NYC 9/11 Public Portal Document

Attn: Benjamin Sallemi
ATC Associates Inc.
104 East 25th Street
New York NY 10010
Fax: (212) 353-3599 **Phone:** (212) 353-8280

Received: 10/28/02 1:20:00 AM
ATC Group #: 9035
Analysis Date: 10/29/02

Project: DEP Clean-up ATC Project #: 22906-0002
125 Cedar Street, New York, NY

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

Sample	*Volume*	*Area Analyzed*	*Non Asb*	*Asbestos Type(s)*	*# Structures 0.5µ-5*	*5µ*	*Analytical Sensitivity (S/cc)*	*Total Asbestos Concentration (S/mm²)*	*(S/cc)*	*Asbestos Concentration (S > 5µ/cc)*
17 *9035 -17*	3700.00	0.2473	1	None Detected	0	0	0.0004	<4.04	<0.0004	< 0.0004
18 *9035 -18*	3700.00	0.2473	0	None Detected	0	0	0.0004	<4.04	<0.0004	< 0.0004
19 *9035 -19*	3700.00	0.2473	0	None Detected	0	0	0.0004	<4.04	<0.0004	< 0.0004
20 *9035 -20*	3700.00	0.2473	0	None Detected	0	0	0.0004	<4.04	<0.0004	< 0.0004
21 *9035 -21*	3700.00	0.2473	0	None Detected	0	0	0.0004	<4.04	<0.0004	< 0.0004
22 *9035 -22*	3700.00	0.2473	0	None Detected	0	0	0.0004	<4.04	<0.0004	< 0.0004
23 *9035 -23*	3700.00	0.2473	1	None Detected	0	0	0.0004	<4.04	<0.0004	< 0.0004
24 *9035 -24*	3600.00	0.2473	0	None Detected	0	0	0.0004	<4.04	<0.0004	< 0.0004
25 *9035 -25*	3600.00	0.2473	2	None Detected	0	0	0.0004	<4.04	<0.0004	< 0.0004

ROMAN PEYSAKHOV
Analyzed by:

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

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NYC-WTC_000131535

NYC 9/11 Public Portal Document

Attn: Benjamin Sallemi
ATC Associates Inc.
104 East 25th Street
New York NY 10010
Fax: (212) 353-3599 **Phone:** (212) 353-8280

Received: 10/28/02 1:20:00 AM
ATC Group #: 9035
Analysis Date: 10/29/02

Project: DEP Clean-up ATC Project #: 22906-0002
125 Cedar Street, New York, NY

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

Sample	*Volume*	*Area Analyzed*	*Non Asb*	*Asbestos Type(s)*	*# Structures 0.5µ-5*	*5µ*	*Analytical Sensitivity (S/cc)*	*Total Asbestos Concentration (S/mm²)*	*(S/cc)*	*Asbestos Concentration (S > 5µ/cc)*
26 *9035 -26*	3600.00	0.2473	3	None Detected	0	0	0.0004	<4.04	<0.0004	< 0.0004
27 *9035 -27*	3600.00	0.2473	1	None Detected	0	0	0.0004	<4.04	<0.0004	< 0.0004
28 *9035 -28*	3600.00	0.2473	1	None Detected	0	0	0.0004	<4.04	<0.0004	< 0.0004
29 *9035 -29*	3600.00	0.2473	2	None Detected	0	0	0.0004	<4.04	<0.0004	< 0.0004
30 *9035 -30*	3600.00	0.2473	0	None Detected	0	0	0.0004	<4.04	<0.0004	< 0.0004
31 *9035 -31*	3600.00	0.2473	1	None Detected	0	0	0.0004	<4.04	<0.0004	< 0.0004
32 *9035 -32*	3600.00	0.2473	0	None Detected	0	0	0.0004	<4.04	<0.0004	< 0.0004
33 *9035 -33*	3600.00	0.2473	1	None Detected	0	0	0.0004	<4.04	<0.0004	< 0.0004
34 *9035 -34*	3600.00	0.2473	5	None Detected	0	0	0.0004	<4.04	<0.0004	< 0.0004

ROMAN PEYSAKHOV
Analyzed by:

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

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NYC-WTC_000131536

NYC 9/11 Public Portal Document

Attn: Benjamin Sallemi
ATC Associates Inc.
104 East 25th Street
New York NY 10010
Fax: (212) 353-3599 Phone: (212) 353-8280

Received: 10/28/02 1:20:00 AM
ATC Group #: 9035
Analysis Date: 10/29/02

Project: DEP Clean-up ATC Project #: 22906-0002
125 Cedar Street, New York, NY

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

Sample	Volume	Area Analyzed	Non Asb	Asbestos Type(s)	# Structures 0.5µ-5	# Structures 5µ	Analytical Sensitivity (S/cc)	Total Asbestos Concentration (S/mm²)	Total Asbestos Concentration (S/cc)	Asbestos Concentration (S > 5µ/cc)
35 *9035 -35*	3600.00	0.2473	33	CHRYSOTILE	1	0	0.0004	4.04	0.0004	< 0.0004
36 *9035 -36*	3600.00	0.2473	6	None Detected	0	0	0.0004	<4.04	<0.0004	< 0.0004
37 *9035 -37*	3600.00	0.2473	16	None Detected	0	0	0.0004	<4.04	<0.0004	< 0.0004
38 *9035 -38*	3600.00	0.2473	30	None Detected	0	0	0.0004	<4.04	<0.0004	< 0.0004
39 *9035 -39*	3600.00	0.2473	8	None Detected	0	0	0.0004	<4.04	<0.0004	< 0.0004
40 *9035 -40*	3600.00	0.2473	2	None Detected	0	0	0.0004	<4.04	<0.0004	< 0.0004
41 *9035 -41*	3600.00	0.2473	4	None Detected	0	0	0.0004	<4.04	<0.0004	< 0.0004
42 *9035 -42*	3610.00	0.2473	2	None Detected	0	0	0.0004	<4.04	<0.0004	< 0.0004
43 *9035 -43*	3620.00	0.2473	0	None Detected	0	0	0.0004	<4.04	<0.0004	< 0.0004

ROMAN 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-WTC_000131537

NYC 9/11 Public Portal Document

TEM Asbestos (air) Count Sheet

Client Name:	ATC	**Volume (liters):**	3900
Lab Group #:	9035	**Filter Type / Filter Area:**	MCE 385 mm²
Lab Sample #:	1	**Grid Opening Size:**	0.01124
Client Sample #:	1	**Area Examined:**	0.24728 mm²
GRID BOX:	1473	**Magnification:**	20,000
GRID ID:	10DF	**Accelerating Voltage:**	100 KeV
# Grid Openings:	22	**Analysis Date:**	10/29/02

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)
10D													
1	Q2	NSD											
2	I2	"											
3	P2	"											
4	V2	"											
5	X2	"											
6	Q2	"											
7	J2	"											
8	E2	"											
9	F2	"											
10	K2	"											
11	R2	"											
12	V2	"											
13	P2	"											
14	I2	"											
10F													
15	Q2	"											
16	E2	"											
17	J2	"											
18	Q2	"											
19	X2	"											
20	Y2	"											
21	R2	"											
22	K2	"											

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

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):**	3900
Lab Group #:	9035	**Filter Type / Filter Area:**	MCE 385 mm²
Lab Sample #:	2	**Grid Opening Size:**	0.01124
Client Sample #:	2	**Area Examined:**	0.24728 mm²
GRID BOX:	1473	**Magnification:**	20,000
GRID ID:	1DHJ	**Accelerating Voltage:**	100 KeV
# Grid Openings:	22	**Analysis Date:**	10/29/02

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 √ Chrysotile	Amphibole	Nonasb	Ambig/ND	EDS (Nonadb Elements)
18H 1 Q2	NSD											
2 I2	1									✓		Cll
3 P2	NSD											
4 V1	"											
5 X2	"											
6 Q2	"											
7 J2	"											
8 E2	"											
9 F2	"											
10 K2	"											
11 R2	"											
12 I2	"											
13 P2	"											
14 V2	"											
10J 15 X2	"											
16 Q2	"											
17 J3	"											
18 K2	"											
19 R3	"											
20 I2	"											
21 S2	"											
22 L2	"											

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

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):**	3900
Lab Group #:	9035	**Filter Type / Filter Area:**	MCE 385 mm²
Lab Sample #:	3	**Grid Opening Size:**	0.01124
Client Sample #:	3	**Area Examined:**	0.24728 mm²
GRID BOX:	1473	**Magnification:**	20,000
GRID ID:	IL/IN	**Accelerating Voltage:**	100 KeV
# Grid Openings:	22	**Analysis Date:**	10/29/02

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)
IL 1	X2	NSD											
2	Q2	"											
3	J2	"											
4	E2	1									√		Cap.
5	D8	NSD											
6	I4	"											
7	P1	"											
8	V2	"											
9	T1	"											
10	N2	"											
11	H1	"											
12	D2	"											
13	I2	"											
14	P2	"											
IN 15	V2	"											
16	X3	"											
17	Q2	"											
18	J2	"											
19	E2	"											
20	F2	"											
21	K2	"											
22	R2	"											

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

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):**	3900
Lab Group #:	9035	**Filter Type / Filter Area:**	MCE 385 mm²
Lab Sample #:	5	**Grid Opening Size:**	0.01124
Client Sample #:	5	**Area Examined:**	0.24728 mm²
GRID BOX:	1473	**Magnification:**	20,000
GRID ID:	1T 2K	**Accelerating Voltage:**	100 KeV
# Grid Openings:	22	**Analysis Date:**	10/29/02

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	F2	NSD											
2	K1	〃											
3	R4	〃											
4	Y1	〃											
5	X2	〃											
6	Q4	〃											
7	I2	〃											
8	E2	〃											
9	Q3	〃											
10	I2	〃											
11	P1	〃											
12	E2	〃											
13	J2	〃											
2K 14	Q3	〃											
15	X2	〃											
16	P4	〃											
17	I2	〃											
18	D2	〃											
19	C2	〃											
20	H1	〃											
21	N1	〃											
22	T2	〃											

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

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 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):**	3900
Lab Group #:	9035	**Filter Type / Filter Area:**	MCE 385 mm²
Lab Sample #:	6	**Grid Opening Size:**	0.01124
Client Sample #:	6	**Area Examined:**	0.24728 mm²
GRID BOX:	14T3	**Magnification:**	20,000
GRID ID:	ZM0	**Accelerating Voltage:**	100 KeV
# Grid Openings:	22	**Analysis Date:**	10/29/02

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)
ZM 1 Q2	NSD											
2 I2	1									√		Cell.
3 P2	NSD											
4 V2	"											
5 X2	"											
6 Q2	"											
7 J2	"											
8 E2	"											
9 F3	"											
10 K2	"											
11 R2	"											
12 Q2	"											
13 I2	"											
20 14 P4	"											
15 V2	2									√		Cell
16 P2	NSD											
17 I2	"											
18 Q2	"											
19 E2	"											
20 J2	"											
21 Q2	"											
22 X2	"											

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

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):**	3900
Lab Group #:	9035	**Filter Type / Filter Area:**	MCE 385 mm²
Lab Sample #:	4	**Grid Opening Size:**	0.01124
Client Sample #:	4	**Area Examined:**	0.24728 mm²
GRID BOX:	1473	**Magnification:**	20,000
GRID ID:	1PR	**Accelerating Voltage:**	100 KeV
# Grid Openings:	22	**Analysis Date:**	10/29/02

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	V6	NSD											
2	P1	"											
3	I2	"											
4	Q2	"											
5	F2	"											
6	J2	"											
7	Q2	"											
8	X2	"											
9	Y2	"											
10	R2	"											
11	K2	"											
12	E2	"											
13	J2	"											
1R	Q2	"											
15	X2	"											
16	V2	"											
17	P2	"											
18	I2	"											
19	Q1	"											
20	C7	"											
21	H4	"											

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

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):**	3800
Lab Group #:	9035	**Filter Type / Filter Area:**	MCE 385 mm²
Lab Sample #:	8	**Grid Opening Size:**	0.01124
Client Sample #:	8	**Area Examined:**	0.24728 mm²
GRID BOX:	1473	**Magnification:**	20,000
GRID ID:	3L N	**Accelerating Voltage:**	100 KeV
# Grid Openings:	22	**Analysis Date:**	10/29/02

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)
3L 1 V2	NSD											
2 P1	"											
3 I2	1-2									√		Cell.
4 Q2	NSD											
5 E2	"											
6 J2	"											
7 Q2	"											
8 X2	"											
9 Y2	"											
10 R2	"											
11 K2	"											
12 V4	"											
13 P8	"											
3N 14 I2	"											
15 D3	"											
16 E2	"											
17 J2	"											
18 Q2	"											
19 X2	"											
20 Y2	"											
21 R1	"											
22 K2	"											

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

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
Actinoiite

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):**	3800
Lab Group #:	9035	**Filter Type / Filter Area:**	MCE 385 mm²
Lab Sample #:	9	**Grid Opening Size:**	0.01124
Client Sample #:	9	**Area Examined:**	0.24728 mm²
GRID BOX:	L4T3	**Magnification:**	20,000
GRID ID:	3PR	**Accelerating Voltage:**	100 KeV
# Grid Openings:	22	**Analysis Date:**	10/29/02

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	E2	NSD											
2	J2	1									√		Cl
3	Q2	2									√		Cl
4	X2	NSD											
5	V2	"											
6	P2	"											
7	I2	"											
8	Q2	"											
9	C3	"											
10	H3	"											
11	N2	"											
12	D2	"											
13	I2	"											
14	P2	"											
15	V2	"											
16	X2	"											
17	Q2	"											
18	J2	"											
19	E2	"											
20	F1	"											
21	K2	"											
22	R2	"											

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

Struct = > 0.5µ > 5:1 Aspect Ratio

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

v= 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_000131545

NYC 9/11 Public Portal Document

TEM Asbestos (air) Count Sheet

Client Name:	ATC	**Volume (liters):**	3800
Lab Group #:	9035	**Filter Type / Filter Area:**	MCE 385 mm²
Lab Sample #:	7	**Grid Opening Size:**	0.01124
Client Sample #:	7	**Area Examined:**	0.24728 mm²
GRID BOX:	1473	**Magnification:**	20,000
GRID ID:	283	**Accelerating Voltage:**	100 KeV
# Grid Openings:	22	**Analysis Date:**	10/29/02

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	Y2	NSD											
2	R2	"											
3	K3	"											
4	F2	"											
5	E2	"											
6	J2	1									√		all
7	Q2	NSD											
8	X2	"											
9	V2	"											
10	P2	"											
11	I2	"											
12	X1	"											
25 13	Q2	2									√		Asp.
14	J2	NSD											
15	E2	"											
16	Q2	"											
17	I2	"											
18	P2	"											
19	V2	"											
20	T2	"											
21	N2	"											
22	H6	"											

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

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					

TEM Asbestos (air) Count Sheet

Client Name:	ATC	**Volume (liters):**	3800
Lab Group #:	9035	**Filter Type / Filter Area:**	MCE 385 mm²
Lab Sample #:	10	**Grid Opening Size:**	0.01124
Client Sample #:	10	**Area Examined:**	0.24728 mm²
GRID BOX:	12/73	**Magnification:**	20,000
GRID ID:	3T4K	**Accelerating Voltage:**	100 KeV
# Grid Openings:	22	**Analysis Date:**	10/29/02

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)
3T 1	V2	NSD											
2	P2	"											
3	I2	"											
4	Q2	"											
5	E2	"											
6	J6	1									√		all.
7	Q2	NSD											
8	X2	"											
9	Y2	"											
10	R2	"											
11	K2	"											
12	E2	2									√		all
13	I2	NSD											
HK 14	Q2	"											
15	X2	"											
16	V2	"											
17	P2	"											
18	I2	"											
19	Q2	"											
20	C2	"											
21	H6	"											
22	N2	"											

^ Photo No. (from 1 in 5 asbestos containing samples)
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):**	3800
Lab Group #:	9035	**Filter Type / Filter Area:**	MCE 385 mm²
Lab Sample #:	11	**Grid Opening Size:**	0.01124
Client Sample #:	11	**Area Examined:**	0.24728 mm²
GRID BOX:	1473	**Magnification:**	20,000
GRID ID:	4M0	**Accelerating Voltage:**	100 KeV
# Grid Openings:	22	**Analysis Date:**	10/29/02

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)
4M0 1	Q2	NSD											
2	I2	"											
3	P2	"											
4	V2	"											
5	X2	"											
6	Q2	"											
7	J2	"											
8	E1	"											
9	F2	"											
10	C2	"											
11	R2	"											
12	X9	"											
13	Q9	"											
14	J9	"											
40 15	E9	"											
16	Q6	"											
17	I2	"											
18	P2	"											
19	Q2	"											
20	N2	"											
21	T2	"											
22	Z2	"											

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

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):**	3800
Lab Group #:	9035	**Filter Type / Filter Area:**	MCE 385 mm²
Lab Sample #:	12	**Grid Opening Size:**	0.01124
Client Sample #:	12	**Area Examined:**	0.24728 mm²
GRID BOX:	1473	**Magnification:**	20,000
GRID ID:	9Q5	**Accelerating Voltage:**	100 KeV
# Grid Openings:	22	**Analysis Date:**	10/29/02

Analysis Performed By: RP

ROMAN PEYSAKHOV

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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	D7	NSD											
2	I6	"											
3	P2	"											
4	V2	"											
5	X2	"											
6	Q2	"											
7	J2	"											
8	E2	"											
9	F2	"											
10	K2	"											
11	R2	"											
12	D2	"											
13	I2	"											
14	P2	"											
15	T2	"											
16	E2	"											
17	F2	"											
18	K2	"											
19	C2	"											
20	H1	"											
21	N1	"											
22	M8	"											

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

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):**	3700
Lab Group #:	9035	**Filter Type / Filter Area:**	MCE 385 mm²
Lab Sample #:	13	**Grid Opening Size:**	0.01124
Client Sample #:	13	**Area Examined:**	0.24728 mm²
GRID BOX:	1473	**Magnification:**	20,000
GRID ID:	5LN	**Accelerating Voltage:**	100 KeV
# Grid Openings:	22	**Analysis Date:**	10/29/02

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)
5L 1	Y2	NSD											
2	R2	"											
3	K2	"											
4	F2	"											
5	E2	1									√		all.
6	Q2	NSD											
7	I2	"											
8	P2	"											
9	V2	"											
10	T2	"											
11	N2	"											
12	Q7	"											
13	I6	"											
14	P2	"											
5N 15	V2	"											
16	X2	"											
17	Q22	"											
18	J2	"											
19	F1	"											
20	K1	"											
21	C9	"											
12	N3	"											

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

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):**	3700
Lab Group #:	9035	**Filter Type / Filter Area:**	MCE 385 mm²
Lab Sample #:	14	**Grid Opening Size:**	0.01124
Client Sample #:	14	**Area Examined:**	0.24728 mm²
GRID BOX:	1473	**Magnification:**	20,000
GRID ID:	5PR	**Accelerating Voltage:**	100 KeV
# Grid Openings:	22	**Analysis Date:**	10/29/02

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)
5P 1	Q2	NSD											
2	I2	"											
3	P2	"											
4	V2	"											
5	X2	"											
6	Q2	1-2									√		Coll.
7	X2	NSD											
8	Y2	"											
9	R2	"											
10	K2	"											
11	F2	"											
12	Q2	"											
13	I2	"											
5R 14	P2	"											
15	V2	"											
16	Q2	"											
17	J2	"											
18	E2	"											
19	F2	"											
20	K2	3									√		Coll
21	R2	NSD											
22	T1	"											

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

Struct = > 0.5µ _> 5:1 Aspect Ratio

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

v= 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):**	3700
Lab Group #:	9035	**Filter Type / Filter Area:**	MCE 385 mm²
Lab Sample #:	15	**Grid Opening Size:**	0.01124
Client Sample #:	15	**Area Examined:**	0.24728 mm²
GRID BOX:	1473	**Magnification:**	20,000
GRID ID:	5T6K	**Accelerating Voltage:**	100 KeV
# Grid Openings:	22	**Analysis Date:**	10/29/02

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	E2	NSD											
2	J3	"											
3	Q2	"											
4	X8	"											
5	V2	"											
6	P2	"											
7	I3	"											
8	C8	"											
9	H9	"											
10	N7	"											
11	I2	"											
12	S6	"											
13	L1	"											
14	K2	"											
15	F2	"											
16	E9	"											
17	B8	"											
18	A9	"											
19	S9	"											
20	K3	"											
21	F8	"											
22	A3	"											

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

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):**	3700
Lab Group #:	9035	**Filter Type / Filter Area:**	MCE 385 mm²
Lab Sample #:	16	**Grid Opening Size:**	0.01124
Client Sample #:	16	**Area Examined:**	0.24728 mm²
GRID BOX:	1473	**Magnification:**	20,000
GRID ID:	6.MD	**Accelerating Voltage:**	100 KeV
# Grid Openings:	22	**Analysis Date:**	10/29/02

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	E2	"											
5	Ø2	"											
6	I2	"											
7	P2	"											
8	V2	"											
9	T2	"											
10	N2	"											
11	H1	"											
12	T2	"											
13	N2	"											
14	H6	"											
15	C2	"											
16	Ø2	"											
17	I2	"											
18	P2	"											
19	V2	"											
20	X2	"											
21	Q2	"											
22	J2	"											

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

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):**	3700
Lab Group #:	9035	**Filter Type / Filter Area:**	MCE 385 mm²
Lab Sample #:	17	**Grid Opening Size:**	0.01124
Client Sample #:	17	**Area Examined:**	0.24728 mm²
GRID BOX:	1473	**Magnification:**	20,000
GRID ID:	685	**Accelerating Voltage:**	100 KeV
# Grid Openings:	22	**Analysis Date:**	10/29/02

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 V2	NSD											
2 P2	"											
3 J2	"											
4 D2	"											
5 E2	"											
6 J2	1									√		Calc
7 Q2	NSD											
8 X2	2									√		Glass
9 Y2	NSD											
10 R2	"											
11 K2	"											
12 K2	"											
13 R2	"											
14 Y2	"											
15 X2	"											
16 Q2	"											
17 J2	"											
18 E2	"											
19 Q3	"											
20 I4	"											
21 P1	"											
22 T2	"											

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

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):**	3700
Lab Group #:	9035	**Filter Type / Filter Area:**	MCE 385 mm²
Lab Sample #:	18	**Grid Opening Size:**	0.01124
Client Sample #:	18	**Area Examined:**	0.24728 mm²
GRID BOX:	1473	**Magnification:**	20,000
GRID ID:	7LN	**Accelerating Voltage:**	100 KeV
# Grid Openings:	22	**Analysis Date:**	10/29/02

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)
7L 1	Q2	NSD											
2	I1	"											
3	P2	"											
4	V2	"											
5	X2	"											
6	Q2	"											
7	J3	"											
8	E2	"											
9	F2	"											
10	K2	"											
11	R3	"											
12	T2	"											
13	N2	"											
7N 14	H3	"											
15	C2	"											
16	Q2	"											
17	I2	"											
18	P2	"											
19	V2	"											
20	X2	"											
21	Q2	"											
22	J2	"											

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

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):**	3700
Lab Group #:	9035	**Filter Type / Filter Area:**	MCE 385 mm²
Lab Sample #:	19	**Grid Opening Size:**	0.01124
Client Sample #:	19	**Area Examined:**	0.24728 mm²
GRID BOX:	1473	**Magnification:**	20,000
GRID ID:	TPR	**Accelerating Voltage:**	100 KeV
# Grid Openings:	22	**Analysis Date:**	10/29/02

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)
TP 1	V2	NSD											
2	P1	"											
3	J2	"											
4	Q2	"											
5	E2	"											
6	J2	"											
7	Q2	"											
8	V2	"											
9	R1	"											
10	K1	"											
11	E1	"											
12	C2	"											
13	H1	"											
14	N2	"											
TR 15	T2	1									√		all
16	V2	NSD											
17	P1	"											
18	J1	"											
19	Q1	"											
20	E2	"											
21	J2	"											
22	Q2	"											

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

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):**	3700
Lab Group #:	9035	**Filter Type / Filter Area:**	MCE 385 mm²
Lab Sample #:	20	**Grid Opening Size:**	0.01124
Client Sample #:	20	**Area Examined:**	0.24728 mm²
GRID BOX:	1473	**Magnification:**	20,000
GRID ID:	7 TRK	**Accelerating Voltage:**	100 KeV
# Grid Openings:	22	**Analysis Date:**	10/29/02

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	I2	"											
3	P2	"											
4	V2	"											
5	X2	"											
6	Q4	"											
7	J2	"											
8	E2	"											
9	F2	"											
10	K1	"											
11	R2	"											
12	Q2	"											
13	I2	"											
14	P2	"											
15	V1	"											
16	X2	"											
17	J2	"											
18	E1	"											
19	F2	"											
20	K2	"											
21	R3	"											
22	Y2	"											

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

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):**	3700
Lab Group #:	9035	**Filter Type / Filter Area:**	MCE 385 mm²
Lab Sample #:	21	**Grid Opening Size:**	0.01124
Client Sample #:	21	**Area Examined:**	0.24728 mm²
GRID BOX:	1473	**Magnification:**	20,000
GRID ID:	2M10	**Accelerating Voltage:**	100 KeV
# Grid Openings:	22	**Analysis Date:**	10/29/02

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	Q2	NSD											
2	I2	"											
3	P2	"											
4	V1	"											
5	X7	"											
6	Q9	"											
7	J2	"											
8	E2	"											
9	F2	"											
10	K2	"											
11	R2	"											
12	X2	"											
13	Q2	"											
14	J2	"											
15	E2	"											
16	D2	"											
17	I2	"											
18	P2	"											
19	U2	"											
20	T3	"											
21	NC	"											
22	H4	"											

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

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_000131558

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TEM Asbestos (air) Count Sheet

Client Name:	ATC	**Volume (liters):**	3700
Lab Group #:	9035	**Filter Type / Filter Area:**	MCE 385 mm²
Lab Sample #:	22	**Grid Opening Size:**	0.01124
Client Sample #:	22	**Area Examined:**	0.24728 mm²
GRID BOX:	1473	**Magnification:**	20,000
GRID ID:	8QS	**Accelerating Voltage:**	100 KeV
# Grid Openings:	22	**Analysis Date:**	10/29/02

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)
8Q 1	X2	NSD											
2	Q2	"											
3	J2	"											
4	E2	"											
5	Q2	"											
6	I2	"											
7	P2	"											
8	V2	"											
9	T2	"											
10	N2	"											
11	H3	"											
12	C3	"											
13	C2	"											
14	H1	"											
8S 15	N2	"											
16	T2	"											
17	V2	"											
18	P2	"											
19	I2	"											
20	E4	"											
21	J2	"											
22	Q2	"											

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

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):**	3700
Lab Group #:	9035	**Filter Type / Filter Area:**	MCE 385 mm²
Lab Sample #:	23	**Grid Opening Size:**	0.01124
Client Sample #:	23	**Area Examined:**	0.24728 mm²
GRID BOX:	1473	**Magnification:**	20,000
GRID ID:	9L N	**Accelerating Voltage:**	100 KeV
# Grid Openings:	22	**Analysis Date:**	10/29/02

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)
9L 1	Q2	NSD											
2	I2	"											
3	P2	"											
4	V1	"											
5	X2	"											
6	Q3	"											
7	J1	"											
8	E1	"											
9	F2	"											
10	K2	"											
11	R7	"											
12	Q2	"											
13	I2	"											
9N 14	P2	"											
15	V2	1									√		cell
16	X2	NSD											
17	Q2	"											
18	J2	"											
19	E3	"											
20	F2	"											
21	K2	"											
22	R2	"											

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

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):**	3600
Lab Group #:	9035	**Filter Type / Filter Area:**	MCE 385 mm²
Lab Sample #:	24	**Grid Opening Size:**	0.01124
Client Sample #:	24	**Area Examined:**	0.24728 mm²
GRID BOX:	4T3	**Magnification:**	20,000
GRID ID:	9PR	**Accelerating Voltage:**	100 KeV
# Grid Openings:	22	**Analysis Date:**	10/29/02

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)
9P 1 F2	NSD											
2 K2	"											
3 R3	"											
4 Y2	"											
5 X2	"											
6 Q2	"											
7 J2	"											
8 E2	"											
9 O2	"											
10 I2	"											
11 P2	"											
12 Y2	"											
13 R2	"											
9R 14 K3	"											
15 E4	"											
16 O4	"											
17 I2	"											
18 P2	"											
19 V2	"											
20 T2	"											
21 N2	"											
22 H3	"											

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

Struct = > 0.5µ _> 5:1 Aspect Ratio

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

v = 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):**	3600
Lab Group #:	9035	**Filter Type / Filter Area:**	MCE 385 mm²
Lab Sample #:	25	**Grid Opening Size:**	0.01124
Client Sample #:	25	**Area Examined:**	0.24728 mm²
GRID BOX:	1473	**Magnification:**	20,000
GRID ID:	9T10K	**Accelerating Voltage:**	100 KeV
# Grid Openings:	22	**Analysis Date:**	10/29/02

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)
9T 1	T2	NSD											
2	N2	"											
3	H1	"											
4	C2	"											
5	Q2	1									√		Coll
6	E2	NSD											
7	J2	"											
8	Q2	"											
9	X2	"											
10	Y2	"											
11	R2	"											
12	Y2	2									√		Coll
13	R2	NSD											
14	E2	"											
10K 15	J2	"											
16	Q2	"											
17	X2	"											
18	V2	"											
19	P2	"											
20	I2	"											
21	H1	"											
22	N2	"											

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

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):**	3600
Lab Group #:	9035	**Filter Type / Filter Area:**	MCE 385 mm²
Lab Sample #:	26	**Grid Opening Size:**	0.01124
Client Sample #:	26	**Area Examined:**	0.24728 mm²
GRID BOX:	1473	**Magnification:**	20,000
GRID ID:	AMC	**Accelerating Voltage:**	100 KeV
# Grid Openings:	22	**Analysis Date:**	10/29/02

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	H3	NSD											
2	N2	"											
3	T2	"									√		Cell
4	V2	1-2											
5	P2	NSD											
6	I2	"											
7	S2	"											
8	Q2	"											
9	X2	"											
10	Y2	"											
11	R2	"											
12	C2	"											
13	H6	"											
14	N2	"											
15	T1	3									√		Cell
16	V2	NSD											
17	P2	"											
18	I2	"											
19	Q2	"											
20	E2	"											
21	J2	"											
22	N9	"											

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

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):**	3600
Lab Group #:	9035	**Filter Type / Filter Area:**	MCE 385 mm²
Lab Sample #:	27	**Grid Opening Size:**	0.01124
Client Sample #:	27	**Area Examined:**	0.24728 mm²
GRID BOX:	1473	**Magnification:**	20,000
GRID ID:	10Q5	**Accelerating Voltage:**	100 KeV
# Grid Openings:	22	**Analysis Date:**	10/29/02

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)
10Q 1	V2	NSD											
2	P1	"											
3	J1	"											
4	Q2	"											
5	E2	"											
6	J2	"											
7	Q2	"											
8	X1	"											
9	Y2	"											
10	R2	"											
11	K2	"											
12	E2	"											
13	J2	"											
14	Q2	"											
10S 15	X2	1									√		Cell
16	V2	NSD											
17	P2	"											
18	J2	"											
19	Q2	"											
20	C2	"											
21	H1	"											
22	N2	"											

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

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):**	3600
Lab Group #:	9035	**Filter Type / Filter Area:**	MCE 385 mm²
Lab Sample #:	28	**Grid Opening Size:**	0.01124
Client Sample #:	28	**Area Examined:**	0.24728 mm²
GRID BOX:	1474	**Magnification:**	20,000
GRID ID:	IAC	**Accelerating Voltage:**	100 KeV
# Grid Openings:	22	**Analysis Date:**	10/29/02

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	1 C2	NSD											
	2 H1	〃											
	3 N1	〃											
	4 T2	〃											
	5 V2	〃											
	6 P2	〃											
	7 I2	〃											
	8 J2	〃											
	9 Q2	〃											
	10 X2	〃											
	11 Y2	〃											
	12 V2	〃											
	13 P2	〃											
1C	14 I2	1									✓		Cdl
	15 Q2	NSD											
	16 E2	〃											
	17 J2	〃											
	18 X2	〃											
	19 Y2	〃											
	20 R6	〃											
	21 K2	〃											
	22 F2	〃											

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

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):**	3600
Lab Group #:	9035	**Filter Type / Filter Area:**	MCE 385 mm²
Lab Sample #:	29	**Grid Opening Size:**	0.01124
Client Sample #:	29	**Area Examined:**	0.24728 mm²
GRID BOX:	1474	**Magnification:**	20,000
GRID ID:	1E2	**Accelerating Voltage:**	100 KeV
# Grid Openings:	22	**Analysis Date:**	10/29/02

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)
1E	1 T2	NSD											
	2 N2	"											
	3 H3	"											
	4 C2	4											
	5 D2	1									✓		Gypsum
	6 E2	2									✓		Gypsum
	7 J2	NSD											
	8 Q2	4											
	9 X1	"											
	10 Y2	4											
	11 R2	"											
	12 Y2	4											
	13 R2	4											
	14 L2	4											
1G	15 E2	"											
	16 N2	"											
	17 I2	4											
	18 P2	"											
	19 V2	4											
	20 T2	4											
	21 N2	4											
	22 H3	4											

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

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):**	3600
Lab Group #:	9035	**Filter Type / Filter Area:**	MCE 385 mm²
Lab Sample #:	30	**Grid Opening Size:**	0.01124
Client Sample #:	30	**Area Examined:**	0.24728 mm²
GRID BOX:	1474	**Magnification:**	20,000
GRID ID:	1ZZB	**Accelerating Voltage:**	100 KeV
# Grid Openings:	22	**Analysis Date:**	10/29/02

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	E2	NSD											
2	J2	"											
3	Q2	"											
4	X2	"											
5	V2	"											
6	P2	"											
7	I2	"											
8	Q2	"											
9	C3	"											
10	H1	"											
11	V9	"											
12	J1	"											
13	V2	"											
14	P6	"											
15	I7	"											
16	D6	"											
17	E2	"											
18	J2	"											
19	Q2	"											
20	X2	"											
21	Y2	"											
22	R2	"											

^ Photo No. (from 1 in 5 asbestos containing samples)
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):**	3600
Lab Group #:	9035	**Filter Type / Filter Area:**	MCE 385 mm²
Lab Sample #:	31	**Grid Opening Size:**	0.01124
Client Sample #:	31	**Area Examined:**	0.24728 mm²
GRID BOX:	1474	**Magnification:**	20,000
GRID ID:	20F	**Accelerating Voltage:**	100 KeV
# Grid Openings:	22	**Analysis Date:**	10/29/02

Analysis Performed By: _____
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	1									√		Cell
2	I1	NSD											
3	P2	"											
4	V2	"											
5	X2	"											
6	Q3	"											
7	I2	"											
8	E2	"											
9	F3	"											
10	K2	"											
11	R2	"											
12	V1	"											
13	P1	"											
14	I1	"											
15	Q1	"											
16	E2	"											
17	J2	"											
18	Q2	"											
19	X1	"											
20	R6	"											
21	K6	"											

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

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):**	3600
Lab Group #:	9035	**Filter Type / Filter Area:**	MCE 385 mm²
Lab Sample #:	32	**Grid Opening Size:**	0.01124
Client Sample #:	32	**Area Examined:**	0.24728 mm²
GRID BOX:	1474	**Magnification:**	20,000
GRID ID:	ZHJ	**Accelerating Voltage:**	100 KeV
# Grid Openings:	22	**Analysis Date:**	10/29/02

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)
ZH 1	E2	NSD											
2	J2	"											
3	Q2	"											
4	X1	"											
5	V2	"											
6	P2	"											
7	I2	"											
8	Q2	"											
9	C2	"											
10	H6	"											
11	N2	"											
12	V6	"											
13	P6	"											
ZJ 14	I6	"											
15	D9	"											
16	E3	"											
17	J1	"											
18	Q2	"											
19	X2	"											
20	R2	"											
21	K4	"											
22	F2	"											

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

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):**	3600
Lab Group #:	9035	**Filter Type / Filter Area:**	MCE 385 mm²
Lab Sample #:	33	**Grid Opening Size:**	0.01124
Client Sample #:	33	**Area Examined:**	0.24728 mm²
GRID BOX:	1474	**Magnification:**	20,000
GRID ID:	3AC	**Accelerating Voltage:**	100 KeV
# Grid Openings:	22	**Analysis Date:**	10/29/02

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)
3A	T1	NSD											
	N2	"											
	H3	"											
	O2	1									√		Cyp.
	I2	NSD											
	P2	"											
	V2	"											
	X2	"											
	Q2	"											
	J2	"											
	E2	"											
	Q2	"											
	I2	"											
3C	P2	"											
	V2	"											
	X3	"											
	Q2	"											
	J2	"											
	E2	"											
	F2	"											
	K2	"											
	R2	"											

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

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):**	3600
Lab Group #:	9035	**Filter Type / Filter Area:**	MCE 385 mm²
Lab Sample #:	34	**Grid Opening Size:**	0.01124
Client Sample #:	34	**Area Examined:**	0.24728 mm²
GRID BOX:	1474	**Magnification:**	20,000
GRID ID:	3EG	**Accelerating Voltage:**	100 KeV
# Grid Openings:	22	**Analysis Date:**	10/29/02

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)
3E 1	C9	NSD											
2	H9	1									√		Cyp.
3	N4	NSD											
4	V3	"											
5	P4	"											
6	I4	"											
7	D2	2									√		Cal
8	E2	NSD											
9	J2	3											
10	Q2	NSD									√		Cal
11	R3	"											
12	X2	"											
13	Q2	4									√		Cal
14	J2	5									√		Cyp.
3G 15	E2	NSD											
16	D2	"											
17	I2	"											
18	P2	"											
19	V2	"											
20	T2	"											
21	N3	"											
22	H3	"											

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

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):**	3600
Lab Group #:	9035	**Filter Type / Filter Area:**	MCE 385 mm²
Lab Sample #:	35	**Grid Opening Size:**	0.01124
Client Sample #:	35	**Area Examined:**	0.24728 mm²
GRID BOX:	1474	**Magnification:**	20,000
GRID ID:	3I4B	**Accelerating Voltage:**	100 KeV
# Grid Openings:	22	**Analysis Date:**	10/29/02

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)
3I 1 TZ	NSD											
2 N2	1									√		Celt
3 H6	2-3									√	2	Cyp
4 C9	4									√		Cyp
5 D2	5-7									√		√ 3 Cyp
6 I2	8-9									√		2 Cyp
7 P2	10-11									√		2 Cyp
8 V2	NSD									√		Cyp
9 X2	12									√		Cyp
10 Q3	13									√		Cyp
11 J3	14				√	√		√				
	15-17									√	2	Cyp, 1 Class
12 E2	NSD											
13 J2	18									√		Cyp
14 Q3	19									√		Cyp
4B 15 V3	20-21									√	2	Cyp
16 P4	22-24									√	3	Cyp
17 J7	25									√		Cyp
18 Q6	26-28									√		Cyp
19 C8	29									√		Cyp
20 H9	30-31									√		Cyp
21 N1	32									√		Cyp
22 G8	33									√		Cyp

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

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):**	3600
Lab Group #:	9035	**Filter Type / Filter Area:**	MCE 385 mm²
Lab Sample #:	36	**Grid Opening Size:**	0.01124
Client Sample #:	36	**Area Examined:**	0.24728 mm²
GRID BOX:	1474	**Magnification:**	20,000
GRID ID:	4DF	**Accelerating Voltage:**	100 KeV
# Grid Openings:	22	**Analysis Date:**	10/29/02

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)
4D	1 X2	1-3									√		3 Cyl
	2 Q2	NSD											
	3 J2	11											
	4 E2	11											
	5 Q2	11											
	6 I2	11											
	7 P2	11											
	8 V1	11											
	9 T2	11											
	10 N1	11											
	11 H4	11											
	12 V2	4											Cell
	13 P2	NSD											
	14 I1	5-6											2 Cyl
HF	15 Q2	NSD											
	16 E3	4											
	17 J2	11											
	18 Q2	11											
	19 X2	11											
	20 Y2	11											
	21 R2	11											
	22 K2	11											

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

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):**	3600
Lab Group #:	9035	**Filter Type / Filter Area:**	MCE 385 mm²
Lab Sample #:	37	**Grid Opening Size:**	0.01124
Client Sample #:	37	**Area Examined:**	0.24728 mm²
GRID BOX:	1474	**Magnification:**	20,000
GRID ID:	4HJ	**Accelerating Voltage:**	100 KeV
# Grid Openings:	22	**Analysis Date:**	10/29/02

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)
4H 1	Q2	1									√		Cryp
2	I2	NSD											
3	P2	2-3											1 Cell, 1 Cryp
4	V2	NSD											
5	X2	4-5											2 Cryp
6	Q2	NSD											
7	J2	6											Cryp
8	E2	7-8											2 Cryp
9	F2	NSD											
10	K1	9											3 Cryp
11	R2	NSD											
12	E2	10											Cryp
13	J3	NSD											
14	Q2	NSD											
45 15	X2	11											Cryp
16	Y2	12											Cryp
17	R2	13-14											1 Cell, 1 Cryp
18	K2	NSD											
19	F2	NSD											
20	L4	NSD											
21	S4	15											Cryp
22	T2	16											Cryp

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

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):**	3600
Lab Group #:	9035	**Filter Type / Filter Area:**	MCE 385 mm²
Lab Sample #:	38	**Grid Opening Size:**	0.01124
Client Sample #:	38	**Area Examined:**	0.24728 mm²
GRID BOX:	1474	**Magnification:**	20,000
GRID ID:	5AC	**Accelerating Voltage:**	100 KeV
# Grid Openings:	22	**Analysis Date:**	10/29/02

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)
5A	1	K2	NSD									✓		
	2	R1	NSD											
	3	Y8	1									✓	✓	Cyp
	4	X2	2-4									✓		3 Cyp
	5	Q2	5-7									✓		3 Cyp
	6	J2	NSD											
	7	E1	8									✓		Cyp
	8	D2	9									✓		Cyp
	9	I2	NSD											
	10	P2	10									✓		Cyp
	11	V2	11-12									✓		2 Cyp
	12	V2	13									✓		Cyp
	13	P1	14									✓		Cyp
5C	14	I2	15-16									✓		2 Cyp
	15	D2	17-18									✓		2 Cyp
	16	E2	19-23									✓		1 Cell, 4 Cyp
	17	J2	24-26									✓		1 Cell, 2 Cyp
	18	Q2	27									✓		Cyp
	19	X1	28-29									✓		2 Cyp
	20	Y2	NSD											
	21	R1	NSD											
	22	K1	30									✓		Cyp

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

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):**	3600
Lab Group #:	9035	**Filter Type / Filter Area:**	MCE 385 mm²
Lab Sample #:	39	**Grid Opening Size:**	0.01124
Client Sample #:	39	**Area Examined:**	0.24728 mm²
GRID BOX:	1474	**Magnification:**	20,000
GRID ID:	5EG	**Accelerating Voltage:**	100 KeV
# Grid Openings:	22	**Analysis Date:**	10/29/02

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)
5E 1	G6	1									√		Cryp
2	M6	NSD											
3	T2	4											
4	N2	4											
5	H6	11											
6	C9	2-4									√	1000, 2 Cryp	
7	D2	NSD											
8	F2	4											
9	P2	4											
10	V2	11											
11	Q2	4											
12	F2	11											
13	K2	5-6									√	2 Cryp	
14	R2	NSD											
5G 15	Y1	7									√		Cryp
16	X2	NSD											
17	Q2	8									√		Cryp
18	T2	NSD											
19	F2	4											
20	Q2	11											
21	T2	11											
22	P2	11											

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

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):**	3600
Lab Group #:	9035	**Filter Type / Filter Area:**	MCE 385 mm²
Lab Sample #:	40	**Grid Opening Size:**	0.01124
Client Sample #:	40	**Area Examined:**	0.24728 mm²
GRID BOX:	1474	**Magnification:**	20,000
GRID ID:	5I66	**Accelerating Voltage:**	100 KeV
# Grid Openings:	22	**Analysis Date:**	10/29/02

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)
5I													
1	Q2	NSD											
2	I2	"											
3	P2	"											
4	V2	"									√		all
5	X1	NSD											
6	Q3	"											
7	J2	"											
8	E1	"											
9	F3	"											
10	K2	"											
11	R2	"											
12	Y2	"											
13	R2	"											
14	K2	"											
6B													
15	E2	"											
16	J2	"									√		Cyp
17	Q4	NSD											
18	X1	"											
19	V2	"											
20	P2	"											
21	J2	"											
22	Q7	"											

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

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):**	3600
Lab Group #:	9035	**Filter Type / Filter Area:**	MCE 385 mm²
Lab Sample #:	41	**Grid Opening Size:**	0.01124
Client Sample #:	41	**Area Examined:**	0.24728 mm²
GRID BOX:	1474	**Magnification:**	20,000
GRID ID:	6DF	**Accelerating Voltage:**	100 KeV
# Grid Openings:	22	**Analysis Date:**	10/29/02

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)
6D 1	K2	NSD											
2	R2	"											
3	Y2	1									√		Ca Cl
4	X3	2									√		Ca P Cl
5	Q2	3-4									√	2	Ca Cl
6	J2	NSD											
7	I1	"											
8	P2	"											
9	V1	"											
10	T2	"											
11	N2	"											
12	E2	"											
13	J2	"											
6F 14	Q4	"											
15	X2	"											
16	V3	"											
17	P2	"											
18	N1	"											
19	T1	"											
20	N9	"											
21	Q8	"											
22	B6	"											

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

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_000131578

NYC 9/11 Public Portal Document

TEM Asbestos (air) Count Sheet

Client Name:	ATC	**Volume (liters):**	3610
Lab Group #:	9035	**Filter Type / Filter Area:**	MCE 385 mm²
Lab Sample #:	42	**Grid Opening Size:**	0.01124
Client Sample #:	42	**Area Examined:**	0.24728 mm²
GRID BOX:	1474	**Magnification:**	20,000
GRID ID:	GHJ	**Accelerating Voltage:**	100 KeV
# Grid Openings:	22	**Analysis Date:**	10/29/02

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)
GH 1	X2	NSD											
2	Q2	4											
3	J2	11											
4	E2	4											
5	Q2	11											
6	T2	11											
7	A2	11											
8	V2	11											
9	T2	11											
10	N2	4											
11	H1	4											
12	Y6	4											
13	R6	11											
GJ 14	K6	11											
15	E7	11											
16	J2	11											
17	Q2	11											
18	X2	11											
19	V2	4											
20	P2	11											
21	T2	4											
22	Q2	4											

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

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):**	3620
Lab Group #:	9035	**Filter Type / Filter Area:**	MCE 385 mm²
Lab Sample #:	43	**Grid Opening Size:**	0.01124
Client Sample #:	43	**Area Examined:**	0.24728 mm²
GRID BOX:	1474	**Magnification:**	20,000
GRID ID:	TAC	**Accelerating Voltage:**	100 KeV
# Grid Openings:	22	**Analysis Date:**	10/29/02

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	F2	NSD											
2	K2	/									√		all
3	R2	NSD											
4	Y2	NSD											
5	X2	"											
6	Q2	"											
7	J2	"											
8	E2	"											
9	Q6	"											
10	I2	"											
11	P1	"											
12	V2	"	\										
13	Y2	"											
14	R2	"											
15	K3	"											
16	E2	"											
17	J2	"											
18	Q2	"											
19	X2	2									√		class
20	V2	NSD											
21	P1	"											
22	I2	"											

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

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_000131580

ATC ASSOCIATES INC

AIR MONITORING DATA AND CHAIN OF CUSTODY FORM

9035 43/48 4475-4522

Page 1 of 4

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:
DEP	DEP Clean UP	22406-02		HP 10
	2a. Project Address: 125 Cedar St NY NY	3a. Task #	4a. Air Sampler: Tim Jhestislawski	

5. Date:	6. Abatement Location:	7. [✓] PCM (0.8 micron MCE)	8. [ ] TEM (0.45 micron MCE)	9. Type.
10-28-02	Entire	Cassette/Filter Manufacture: MMI; Lot #: 01344108	Cassette/Filter Manufacture: X; Lot #:	a. [ ] Background; b. [ ] Pre-Abate; c. [ ] Abatement; d. [ ] Post Abate; e. [ ] OSHA; f. [ ] Environmental; g. [ ] Ambient; h. [✓] Other: Hearing

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	
B-2				Field Blank								0/100	
1				9FL APt 9 North	845	1515	390	10	10	10	3900	2/100	<0.001
2				"	846	1516	390	10	10	10	3900	2/100	<0.001
3				"	848	1518	390	10	10	10	3900	3/100	<0.001
4				"	849	1519	390	10	10	10	3900	2/100	<0.001
5				"	850	1520	390	10	10	10	3900	2/100	<0.001
6				9FL Hallway.	852	1522	390	10	10	10	3900	2/100	<0.001
7				8FL APt 8 South	908	1528	380	10	10	10	3800	3/100	<0.001
8				"	909	1529	380	10	10	10	3800	3/100	<0.001
9				"	910	1530	380	10	10	10	3800	2/100	<0.001
10				"	912	1532	380	10	10	10	3800	1/100	<0.001
11				"	913	1533	380	10	10	10	3800	1/100	<0.001
12				8FL Hallway.	915	1535	380	10	10	10	3800	2/100	<0.001

CHAIN OF CUSTODY

18. Relinquished By:	19. Received By:	20. Date:	21. Time:
[signature]	E. A. Carter	10/28/02	0120
I			
II			

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

22. Lab Name:	23. Date:	24. Time:
a. Analyzed By: E. A. Carter	10/28/02	0700
b. QC By:		
c. Lab Batch #: 101800		

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

Analysis Methodology
PCM - NIOSH 7400A
TEM - AHERA

26. ATC Project Manager: B. Sollemi

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

28. Comments:

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

NY 1 (1/01)

ATC ASSOCIATES INC.

AIR MONITORING DATA AND CHAIN OF CUSTODY FORM

9035

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:
DEP	DEP Clean up	22906.02		
	2a. Project Address: 125 Cedar St NY NY	3a. Task #: 01	4a. Air Sampler: Tim Hrostislavsky	KD-22

. Date:	6. Abatement Location:	7. [x] PCM (0.8 micron MCE)	8. [ ] TEM (0.45 micron MCE)	9. Type.	
0.272	Entire	Cassette/Filter Manufacture: NMI; Lot #: 01344108	Cassette/Filter Manufacture: X; Lot #:	a. [ ] Background; b. [ ] Pre-Abate; c. [ ] Abatement; d. [ ] Post Abate; e. [ ] OSHA	f. [ ] Environmental; g. [ ] Ambient; h. [x] Other Clean up

AILY AIR SAMPLE RECORD

0. 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-5				Field Blank								0/100	
				Field Blank									
13				7FL AP+ 7 South	930	1540	370	10	10	10	3700	3/100	<0.001
14				"	931	1541	370	10	10	10	3700	2/100	<0.001
15				"	932	1542	370	10	10	10	3700	2/100	<0.001
16				"	934	1543	370	10	10	10	3700	1/100	<0.001
17				"	935	1545	370	10	10	10	3700	2/100	<0.001
18				7FL AP+ 7 North	950	1600	370	10	10	10	3700	2/100	<0.001
19				"	951	1601	370	10	10	10	3700	2/100	<0.001
20				"	952	1602	370	10	10	10	3700	2/100	<0.001
21				"	953	1603	370	10	10	10	3700	2/100	<0.001
22				"	954	1604	370	10	10	10	3700	2/100	<0.001
23				7 FL Hallway	956	1606	370	10	10	10	3700	3/100	<0.001
24				5FL AP+ 5 South	1012	1612	360	10	10	10	3600	2/100	<0.001

HAIN OF CUSTODY

8. Relinquished By:	19. Received By:	20. Date:	21. Time:
[signature]	E. A. Cuartas	10/25/02	0120
I			
II			

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

22. Lab Name:	23. Date:	24. Time:
a. Analyzed By: E. A. Cuartas	10/25/02	0700
b. QC By:		
c. Lab Batch #: 101800		

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

Analysis Methodology
PCM - NIOSH 7400A
TEM - AHERA

6. ATC Project Manager: B. Sallomi

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

28. Comments:

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

NY-1 (1/01)

NYC-WTC_000131583

NYC 9/11 Public Portal Document

VATC ASSOCIATES INC.

9035

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:
DEP	DEP clean up	22906.02		111-22
	2a. Project Address: 125 Cedar st NY NY	3a. Task #: 87	4a. Air Sampler: K. Hurst, A. Fitzgerald	

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

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								0/100	
B-4				Field Blank								0/100	
25				5FL APT 5South	1013	1613	360	10	10	10	3600	3/100	<0.001
26				11	1014	1614	360	10	10	10	3600	2/100	<0.001
27				11	1015	1615	360	10	10	10	3600	2/100	<0.001
28				11	1016	1616	360	10	10	10	3600	1/100	<0.001
29				5FL APT 5 North	1031	1631	360	10	10	10	3600	2/100	<0.001
30				11	1032	1632	360	10	10	10	3600	2/100	<0.001
31				11	1033	1633	360	10	10	10	3600	3/100	<0.001
32				11	1035	1635	360	10	10	10	3600	3/100	<0.001
33				11	1036	1636	360	10	10	10	3600	1/100	<0.001
34				5 FL Hallway	1038	1638	360	10	10	10	3600	2/100	<0.001
35				3 FL APT 3 North	1053	1653	360	10	10	10	3600	27/100	0.004
36				11	1054	1654	360	10	10	10	3600	20/100	0.003

CHAIN OF CUSTODY

18. Relinquished By:	19. Received By:	20. Date:	21. Time:
I.	E. A. Cunt	10/24/01	0120
II			
III			

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

22. Lab Name:	23. Date:	24. Time:
a. Analyzed By: E. A. Cunt	10/24/01	0200
b. QC By:		
c. Lab Batch #: 10180C		

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

Analysis Methodology
PCM NIOSH 7400A
TEM AHERA

26. ATC Project Manager: B. Sallemi

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

28. Comments:

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

NS 1 (1/01)

ATC ASSOCIATES INC.

AIR MONITORING DATA AND CHAIN OF CUSTODY FORM

9035

[ ] 2 hrs [ ] 6 hrs [ ] 48 hrs [ ] Standard
[ ] 4 hrs [ ] 24 hrs [ ] 72 hrs [ ] Other

PROJECT INFORMATION

1. Client: DEP
2. Project Name: DEP Clean up
2a. Project Address: 125 Cedar St NY
3. Project #: 23906-02
3a. Task #: 02
4. Project Monitor:
4a. Air Sampler: Tim Hunsfisher
4c. Rotameter Number: HP
5. Date: 10-27-02
6. Abatement Location: Entire
7. [x] PCM (0.8 micron MCE) Cassette/Filter Manufacture: NMT Lot #:
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. [x] Other: Clean

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									
37				3 FL APt 3 North	1055	1655	360	10	10	10	3600	15/100	0.002
38				"	1056	1656	360	10	10	10	3600	20/100	0.003
39				"	1058	1658	360	10	10	10	3600	9/100	<0.001
40				3FL Hallway	1100	1700	360	10	10	10	3600	8/100	<0.001
41				Stairwell between 7FL & 8FL	1608	2208	360	10	10	10	3600	5/100	<0.001
42				7 FL Laundry room	1609	2210	361	10	10	10	3610	5/100	<0.001
43				6 FL Hallway	1610	2212	362	10	10	10	3620	4/100	<0.001

CHAIN OF CUSTODY

18. Relinquished By:	19. Received By:	20. Date:	21. Time:
I [signature]	E. A. Charles	10/28/02	0120
II			
III			

26. ATC Project Manager: B. Sollemi

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

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

22. Lab Name:	23. Date:	24. Time:
a. Analyzed By: E. A. Charles	10/28/02	0700
b. QC By:		
c. Lab Batch #: 101800		

28. Comments:

25. Microscope Make/Serial #:
[x] 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

HY 1 (1/0

NYC 9/11 Public Portal Document

ATC ASSOCIATES INC.

104 East 25th St., 10th Floor
New York, New York 10010
www.atc-enviro.com
212.353.8280
Fax 212.353.8306

November 2, 2002

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

Attn: Mr. Ben Sallemi

Re: Report of TEM Analysis

Dear Mr. Sallemi:

Following are the results of transmission electron microscopy (TEM) analysis of air samples from our Group No. 9047:

Client: D.E.P.
Project Name: D.E.P. Clean-up, 125 Cedar St., NY, NY
Location: Apartment 2N
Samples received: 11/01/02

These results will confirm and document the data transmitted today to your office. The analyses were performed in conformance with the methodology of the AHERA Final Rule (CFR October 30, 1987) for clearance of abatement sites.

The results of the sample analyses may be found on the attached document.

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.

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

Received: 11/1/02 8:00:00 PM

ATC Group #: 9047

Analysis Date: 11/2/02

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

Fax: (212) 353-3599 **Phone:** (212) 353-8280

Project: DEP Clean-up ATC Project #: 22906-0002
125 Cedar Street, New York, NY

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

Sample	*Volume*	*Area Analyzed*	*Non Asb*	*Asbestos Type(s)*	*# Structures* 0.5μ-5	5μ	*Analytical Sensitivity (S/cc)*	*Total Asbestos Concentration* (S/mm²)	(S/cc)	*Asbestos Concentration* (S > 5μ/cc)
03 *9047 -1*	3600.00	0.2473	10	None Detected	0	0	0.0004	<4.04	<0.0004	< 0.0004
04 *9047 -2*	3600.00	0.2473	16	None Detected	0	0	0.0004	<4.04	<0.0004	< 0.0004
05 *9047 -3*	3600.00	0.2473	11	None Detected	0	0	0.0004	<4.04	<0.0004	< 0.0004
06 *9047 -4*	3600.00	0.2473	11	None Detected	0	0	0.0004	<4.04	<0.0004	< 0.0004
07 *9047 -5*	3600.00	0.2473	5	None Detected	0	0	0.0004	<4.04	<0.0004	< 0.0004

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

Saturday, November 02, 2002

NYC-WTC_000131586

TEM Asbestos (air) Count Sheet

Client Name:	ATC	**Volume (liters):**	3600
Lab Group #:	9047	**Filter Type / Filter Area:**	MCE 385 mm²
Lab Sample #:	1	**Grid Opening Size:**	0.01124
Client Sample #:	03	**Area Examined:**	0.24728 mm²
GRID BOX:	1477	**Magnification:**	20,000
GRID ID:	10W0	**Accelerating Voltage:**	100 KeV
# Grid Openings:	22	**Analysis Date:**	11/2/02

Analysis Performed By: MP

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	E1	-C											
3	P1	-C											
4	V1	1-2									✓		
5	Z1	3-4									✓		
6	X7	5-6									✓		
7	Q7	7-8									✓		
8	J4	NSD											
9	E7	-C											
10	K4	-C											
11	K4	-C											
12	C1	-C											
13	H1	-C											
14	N1	-C											
15	F1	-C											
16	A7	-C											
17	D7	-C											
18	E7	9-10									✓		
19	P7	NSD											
20	V7	-C											
21	B9	-C											
22	E9	-C											
										Cellulose		-	2str
										Gypsum		-	8str

10W

100

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

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):**	3600
Lab Group #:	9047	**Filter Type / Filter Area:**	MCE 385 mm²
Lab Sample #:	2	**Grid Opening Size:**	0.01124
Client Sample #:	04	**Area Examined:**	0.24728 mm²
GRID BOX:	1277	**Magnification:**	20,000
GRID ID:	1085	**Accelerating Voltage:**	100 KeV
# Grid Openings:	22	**Analysis Date:**	11/2/02

Analysis Performed By: MP
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	A7	NSD											
2	D7	1-3									√		
3	E7	NSD											
4	F7	—											
5	J7	4									√		
6	B8	NSD											
7	E8	—											
8	J8	5-6									√		
9	Q8	7									√		
10	R3	NSD											
11	K3	—											
12	C3	—											
13	H3	8									√		
14	N3	NSD											
15	P3	9-11									√		
16	A6	NSD											
17	D6	—											
18	E6	12									√		
19	P6	13-14									√		
20	V6	15									√		
21	X9	16									√		
22	Q9	NSD											
									Cellulose — 65 pa				
									Gypsum — 105 pa				

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

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):**	3600
Lab Group #:	9047	**Filter Type / Filter Area:**	MCE 385 mm²
Lab Sample #:	3	**Grid Opening Size:**	0.01124
Client Sample #:	05	**Area Examined:**	0.24728 mm²
GRID BOX:	1678	**Magnification:**	20,000
GRID ID:	18C	**Accelerating Voltage:**	100 KeV
# Grid Openings:	22	**Analysis Date:**	11/2/02

Analysis Performed By: MP

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	K3	1									✓		
2	K3	NSD											
3	R3	— ✓											
4	Y3	— ✓											
5	X9	— ✓											
6	Q9	2									✓		
7	J9	3									✓		
8	E9	4									✓		
9	B9	5									✓		
10	D9	6-8									✓		
11	F9	NSD											
12	Y7	— ✓											
13	R7	— ✓											
14	K7	— ✓											
15	B7	— ✓											
16	J6	— ✓											
17	Q6	— ✓											
18	X6	— ✓											
19	U7	9-10									✓		
20	P7	NSD											
21	C7	— ✓											
22	D7	— ✓											
									Chrysotile			— 35 fr	
									Grossular			— 85 fr	

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

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):**	3600
Lab Group #:	9047	**Filter Type / Filter Area:**	MCE 385 mm²
Lab Sample #:	4	**Grid Opening Size:**	0.01124
Client Sample #:	06	**Area Examined:**	0.24728 mm²
GRID BOX:	1478	**Magnification:**	20,000
GRID ID:	1E6	**Accelerating Voltage:**	100 KeV
# Grid Openings:	22	**Analysis Date:**	11/2/02

Analysis Performed By: MP

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									✓		
	2	E1	2-3									✓		
	3	P1	NSD											
1E	4	V1	4-5									✓		
	5	Z2	6									✓		
	6	B9	7									✓		
	7	E9	8									✓		
	8	J9	NSD											
	9	Q9	-L											
	10	X9	-L											
	11	Y9	-L											
	12	C9	9									✓		
	13	H9	NSD											
	14	N9	-L											
	15	A8	10									✓		
	16	D8	NSD											
	17	E8	-L											
16	18	P8	11									✓		
	19	V8	NSD											
	20	X9	-L											
	21	Q9	-L											
	22	J9	-L											
										Cellulose		-	3 str	
										Gypsum		-	8 str	

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

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):**	3600
Lab Group #:	9047	**Filter Type / Filter Area:**	MCE 385 mm²
Lab Sample #:	5	**Grid Opening Size:**	0.01124
Client Sample #:	07	**Area Examined:**	0.24728 mm²
GRID BOX:	1678	**Magnification:**	20,000
GRID ID:	1128	**Accelerating Voltage:**	100 KeV
# Grid Openings:	22	**Analysis Date:**	11/2/02

Analysis Performed By: MP

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	C1	NSD											
2	H1	— "											
3	N1	— "											
4	A1	— "											
5	D1	— "											
6	E1	— "											
7	P1	— "											
8	V1	— "											
9	X3	— "											
10	R3	— "											
11	J3	1-2									"		
12	A7	NSD											
13	D7	— "											
14	E7	— "											
15	P7	3-5									"		
16	V7	NSD											
17	Z9	— "											
18	X9	— "											
19	R9	— "											
20	J9	— "											
21	E9	— "											
22	K3	— "											
									Chrysotile	—		2 str	
									Grass	—		3 str	

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

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					

ATC ASSOCIATES INC.

9047

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 ASAP

PROJECT INFORMATION

5/7 4636 4642

1. Client:	2. Project Name	3. Project #	4. Project Monitor:	4c. Rotameter Number:
DEP	DEP Clean up	22906-0002	[signature]	HP 108
	2a. Project Address: 125 Cedar St.	3a. Task #: 0001	4a. Air Sampler:	

5. Date:	6. Abatement Location:	7. ☐ PCM (0.8 micron MCE)	8. ☐ TEM (0.45 micron MCE)	9. Type:
11-1-02	2N	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 open									
02				Field Blank closed									
03				apt 2N	1340	1940	360	10	10	10	3600		
04				"	1341	1941	360	10	10	10	3600		
05				"	1342	1942	360	10	10	10	3600		
06				"	1343	1943	360	10	10	10	3600		
07				"	1344	1944	360	10	10	10	3600		

CHAIN OF CUSTODY

18. Relinquished By:	19. Received By:	20. Date:	21. Time:
I [signature]	~~[illegible]~~ Milena Lovell	11-1-02	8:00pm
II			
III			

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

22. Lab Name:	23. Date:	24. Time:
a. Analyzed By: [signature]	11/2	10:50
b. QC By:		
c. Lab Batch #:		

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

26. ATC Project Manager: [signature]

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

28. Comments:

Analysis Methodology
PCM - NIOSH 7400A
TEM - AHERA

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

NYC 9/11 Public Portal Document

TRANSMISSION VERIFICATION REPORT

TIME : 10/30/2002 07:55
NAME :
FAX : 2123533599
TEL :

DATE,TIME	10/30 07:50
FAX NO./NAME	917185953744
DURATION	00:05:46
PAGE(S)	08
RESULT	OK
MODE	STANDARD

VATC
ASSOCIATES INC.
104 EAST 25TH STREET
NEW YORK, NEW YORK 10010-2917
(TEL.) 212-353-8280 (FAX) 212-353-8306

F A X T R A N S M I T T A L

DATE:
TO: Penny Theodorellys
COMPANY: NYCDEP
ADDRESS: **59-17 Junction Blvd.**
PHONE NUMBER: **718-595-3657**
FAX NUMBER: **718-595-3744**
FROM: Benjamin M. Sallemi
PHONE NUMBER: 212.353.8280 ext. 295

SUBJECT: 125 Cedar Street – Asbestos Clearance Result

NUMBER OF PAGES TO FOLLOW COVER:

Message:

Penny,

If you have any questions, please feel free to contact me at the telephone number above.

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: Benjamin Sallemi
ATC Associates Inc.
104 East 25th Street
New York NY 10010

Fax: (212) 353-3599 **Phone:** (212) 353-8280

Project: DEP Clean-up ATC Project #: 22906-0002
125 Cedar Street, New York, NY

Received: 10/29/02 7:00:00 AM
ATC Group #: 9041
Analysis Date: 10/30/02

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

Sample	*Volume*	*Area Analyzed*	*Non Asb*	*Asbestos Type(s)*	*# Structures 0.5µ-5*	*5µ*	*Analytical Sensitivity (S/cc)*	*Total Asbestos Concentration (S/mm²)*	*(S/cc)*	*Asbestos Concentration (S > 5µ/cc)*
04 *9041 -1*	3600.00	0.2473	57	CHRYSOTILE	1	0	0.0004	4.04	0.0004	< 0.0004
05 *9041 -2*	3600.00	0.2473	60	None Detected	0	0	0.0004	<4.04	<0.0004	< 0.0004
06 *9041 -3*	3600.00	0.2473	61	AMOSITE	0	2	0.0004	8.09	0.0009	0.0009
07 *9041 -4*	3600.00	0.2473	48	CHRYSOTILE	0	1	0.0004	4.04	0.0004	0.0004
08 *9041 -5*	3600.00	0.2473	49	CHRYSOTILE	0	1	0.0004	4.04	0.0004	0.0004
09 *9041 -6*	3600.00	0.2473	90	CHRYSOTILE	0	4	0.0004	16.18	0.0017	0.0017
10 *9041 -7*	3600.00	0.2473	40	CHRYSOTILE	1	1	0.0004	8.09	0.0009	0.0004

ROMAN 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-WTC_000131594

NYC 9/11 Public Portal Document

Attn: Benjamin Sallemi
ATC Associates Inc.
104 East 25th Street
New York NY 10010
Fax: (212) 353-3599 **Phone:** (212) 353-8280

Received: 10/29/02 7:00:00 AM
ATC Group #: 9041
Analysis Date: 10/30/02

Project: DEP Clean-up ATC Project #: 22906-0002
125 Cedar Street, New York, NY

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

Sample	*Volume*	*Area Analyzed*	*Non Asb*	*Asbestos Type(s)*	*# Structures 0.5μ-5*	*5μ*	*Analytical Sensitivity (S/cc)*	*Total Asbestos Concentration (S/mm²)*	*(S/cc)*	*Asbestos Concentration (S > 5μ/cc)*
11 *9041 -8*	3600.00	0.2473	46	None Detected	0	0	0.0004	<4.04	<0.0004	< 0.0004
12 *9041 -9*	3600.00	0.2473	31	CHRYSOTILE	1	2	0.0004	12.13	0.0013	0.0009
13 *9041 -10*	3600.00	0.2473	56	CHRYSOTILE	1	4	0.0004	20.22	0.0022	0.0017
14 *9041 -11*	3600.00	0.2473	24	CHRYSOTILE	1	0	0.0004	4.04	0.0004	< 0.0004
15 *9041 -12*	3600.00	0.2473	16	CHRYSOTILE	0	1	0.0004	4.04	0.0004	0.0004
16 *9041 -13*	3600.00	0.2473	36	CHRYSOTILE	0	1	0.0004	4.04	0.0004	0.0004
17 *9041 -14*	3600.00	0.2473	30	None Detected	0	0	0.0004	<4.04	<0.0004	< 0.0004
18 *9041 -15*	3600.00	0.2473	29	CHRYSOTILE	0	2	0.0004	8.09	0.0009	0.0009
19 *9041 -16*	3600.00	0.2473	02	CHRYSOTILE	24	8	0.0004	129.41	0.0138	0.0035

ROMAN 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.

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NYC-WTC_000131595

NYC 9/11 Public Portal Document

Attn: Benjamin Sallemi
ATC Associates Inc.
104 East 25th Street
New York NY 10010
Fax: (212) 353-3599 **Phone:** (212) 353-8280

Received: 10/29/02 7:00:00 AM
ATC Group #: 9041
Analysis Date: 10/30/02

Project: DEP Clean-up ATC Project #: 22906-0002
125 Cedar Street, New York, NY

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

Sample	*Volume*	*Area Analyzed*	*Non Asb*	*Asbestos Type(s)*	*# Structures 0.5μ-5*	*5μ*	*Analytical Sensitivity (S/cc)*	*Total Asbestos Concentration (S/mm²)*	*(S/cc)*	*Asbestos Concentration (S > 5μ/cc)*
20 *9041 -17*	3600.00	0.2473	02	CHRYSOTILE	16	3	0.0004	76.84	0.0082	0.0013
21 *9041 -18*	3600.00	0.2473	92	CHRYSOTILE	11	4	0.0004	60.66	0.0065	0.0017
22 *9041 -19*	3600.00	0.2473	02	CHRYSOTILE	14	6	0.0004	80.88	0.0086	0.0026
23 *9041 -20*	3600.00	0.2473	90	CHRYSOTILE	3	1	0.0004	16.18	0.0017	0.0004

ROMAN 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.

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NYC-WTC_000131596

NYC-WTC_000131597

NYC 9/11 Public Portal Document

ATC ASSOCIATES INC.

AIR MONITORING DATA AND CHAIN OF CUSTODY FORM

9041

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:
DEP	DEP. Clean-up	15-22906-0002	E. Lemanovich	HR-22
	2a. Project Address 125 Cedar St NY	3a. Task # 00001	4a. Air Sampler: T. Anastasiadskiy	

5. Date:	6. Abatement Location:	7. ☑ PCM (0.8 micron MCE)	8. ☐ TEM (0.45 micron MCE)	9. Type:
09.28.02	Apartments: # 9S, 8N, 3S, 2N	Cassette/Filter Manufacture _____ Lot # 01344108	Cassette/Filter Manufacture _____ Lot # _____	a. ☐ Background b. ☐ Pre-Abate c. ☐ Abatement d. ☐ Post-Abate e. ☐ OSHA f. ☐ Environmental g. ☐ Ambient h. ☑ Other cleaning

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, 03				Field Blank								0/100	
04		V		Apartment # 9 South	20:30	02:30	360	10	10	10	3600	1/100	<0.001
05		V		— " —	20:32	02:32	360	10	10	10	3600	30/100	0.004
06		V		— " —	20:34	02:34	360	10	10	10	3600	33/100	0.004
07		V		— " —	20:36	02:36	360	10	10	10	3600	40/100	0.005
08		V		— " —	20:38	02:38	360	10	10	10	3600	35/100	0.005
09		V		Apartment # 8 North	20:55	02:55	360	10	10	10	3600	37/100	0.005

CHAIN OF CUSTODY

18. Relinquished By:	19. Received By:	20. Date:	21. Time:
E Lemanovich	A. Ellenz	10.29.02	7:00 Tues
II			
III			

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

22. Lab Name:	23. Date:	24. Time:
PCM Lab		
a. Analyzed By: A-Ellenz	10/30/02	16:00
b. QC By:		
c. Lab Batch #: 101821		

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

26. ATC Project Manager: B. Sallemi

27. Result To: B. Sallemi
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_000131598

NYC 9/11 Public Portal Document

ATC ASSOCIATES INC.

9041

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: DEP
2. Project Name: DEP Clean-up
2a. Project Address: 125 Cedar St NY
3. Project #: 15-22906-0002
3a. Task #: 00001
4. Project Monitor: E. Lemanovich
4a. Air Sampler: T. Amstislavskiy
4c. Rotameter Number: HR-22
5. Date: 10.28.02
6. Abatement Location: Apartments: # 9S, 8N, 3S, 2N
7. ☑ PCM (0.8 micron MCE) Cassette/Filter Manufacture _____ Lot # 01344108
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 Cleaning

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		V		Apartment # 8 North	20:57	02:57	360	10	10	10	3600	28/100	0.004
11		V		— " —	20:59	02:59	360	10	10	10	3600	23/100	0.003
12		V		— " —	21:01	03:01	360	10	10	10	3600	22/100	0.003
13		V		— " —	21:03	03:03	360	10	10	10	3600	33/100	0.004
14		V		Apartment # 3 South	21:20	03:20	360	10	10	10	3600	23/100	0.003
15		V		— " —	21:22	03:22	360	10	10	10	3600	25/100	0.003

CHAIN OF CUSTODY

18. Relinquished By:	19. Received By:	20. Date:	21. Time:
I E. Lemanovich	A. Elbert	10.29.02	7:00 am
II			
III			

26. ATC Project Manager: B. Sallemi

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

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

22. Lab Name: PCM Lab	23. Date:	24. Time:
a. Analyzed By: A. Elbert	10/29/02	16:00
b. QC By:		
c. Lab Batch #: 101821		

28. Comments:

25. Microscope Make/Serial #: Olympus
☐ 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_000131599

NYC 9/11 Public Portal Document

ATC ASSOCIATES INC.

AIR MONITORING DATA AND 9041 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: DEP. clean-up	3. Project #: 15-22906-0002	4. Project Monitor: E. Lemanovich	4c. Rotameter Number:
DEP	2a. Project Address: 125 Cedar St. NY	3a. Task #: 00001	4a. Air Sampler: T. Anastasiovskiy	HR-22

5. Date:	6. Abatement Location:	7. ☑ PCM (0.8 micron MCE)	8. ☐ TEM (0.45 micron MCE)	9. Type:
10.28.02	Apartments: #9S, 8N, 3S, 2N	Cassette/Filter Manufacture: ____ Lot #: 01344108	Cassette/Filter Manufacture: ____ Lot #: ____	a. ☐ Background b. ☐ Pre-Abate c. ☐ Abatement d. ☐ Post-Abate e. ☐ OSHA f. ☐ Environmental g. ☐ Ambient h. ☑ Other Cleaning

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									
16		V		Apartment # 3 South	21:24	03:24	360	10	10	10	3600	14/100	0.002
17		V		— " —	21:26	03:26	360	10	10	10	3600	15/100	0.002
18		V		— " —	21:28	03:28	360	10	10	10	3600	11/100	0.001
19		V		Apartment # 2 North	21:45	03:45	360	10	10	10	3600	100/96	0.014
20		V		— " —	21:47	03:47	360	10	10	10	3600	69/100	0.009
21		V		— " —	21:49	03:49	360	10	10	10	3600	46/100	0.006

CHAIN OF CUSTODY

18. Relinquished By:	19. Received By:	20. Date:	21. Time:
I E. Lemanovich	A. Elbert	10.29.02	700 Time
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 #: 101821		

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

Analysis Methodology
PCM - NIOSH 7400A
TEM - AHERA

26. ATC Project Manager: B. Salleni

27. Result To: B. Salleni
Beeper/Phone #'s ____

28. Comments:

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

NY-1 (1/01)

NYC-WTC_000131600

NYC 9/11 Public Portal Document

ATC ASSOCIATES INC.

AIR MONITORING DATA AND CHAIN OF CUSTODY FORM

9041

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:
DEP	DEP. Clean-up	15-22906-0002	E. Lemanovich	HR-22
	2a. Project Address 125 Cedar St. NY	3a. Task # 00001	4a. Air Sampler: T. Austislavskiy	

5. Date:	6. Abatement Location:	7. ☑ PCM (0.8 micron MCE)	8. ☐ TEM (0.45 micron MCE)	9. Type:
10.28.02	Apartments: #9S, 8N, 3S, 2N	Cassette/Filter Manufacture _____ Lot # 01344108	Cassette/Filter Manufacture _____ Lot # _____	a. ☐ Background b. ☐ Pre-Abate c. ☐ Abatement d. ☐ Post-Abate e. ☐ OSHA f. ☐ Environmental g. ☐ Ambient h. ☑ Other Cleaning

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									
22		✓		Apartment # 2 North	21:51	03:51	360	10	10	10	3600	100/97	0.014
23		✓		— " —	21:53	03:53	360	10	10	10	3600	69/100	0.009

CHAIN OF CUSTODY

18. Relinquished By:	19. Received By:	20. Date:	21. Time:
I E. Lemanovich	A. Elbert	10.29.02	700 Tam
II			
III			

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

22. Lab Name: PCM Lab	23. Date:	24. Time:
a. Analyzed By: A. Elbert	10/29/02	16:00
b. QC By:		
c. Lab Batch #: 101821		

25. Microscope Make/Serial #: Olympus CH2
☐ Nikon Labophot 238913
☐ Nikon Labophot 238917
☐ Nikon Labophot 239079

Analysis Methodology
PCM - NIOSH 7400A
TEM - AHERA

26. ATC Project Manager: B. Salleni

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

28. Comments:

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

NY-1 (1/01)

TEM Asbestos (air) Count Sheet

Client Name:	ATC	**Volume (liters):**	3600
Lab Group #:	9041	**Filter Type / Filter Area:**	MCE 385 mm²
Lab Sample #:	1	**Grid Opening Size:**	0.01124
Client Sample #:	04	**Area Examined:**	0.24728 mm²
GRID BOX:	1475	**Magnification:**	20,000
GRID ID:	2DF	**Accelerating Voltage:**	100 KeV
# Grid Openings:	22	**Analysis Date:**	10/30/02

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)
2D 1	M2	1-4									√		1 Cell, 3 Gyp
2	N2	5-6									√		
3	Q2	7-11									√		
4	Q7	12-15									√		
5	R4	16-17									√		
6	K1	18-22									√		
7	J2	23-26									√		
8	I6	27-28									√		
9	H3	29-31									√		
10	G2	32-33									√		
11	C4	34-36									√		
12	F2	37-39									√		
13	K2	40				√	√		√				
14	R3	NSD											
2F 15	V2	41-45									√		
16	K3	46									√		
17	Q2	47-50									√		
18	J2	NSD											
19	E3	51-52									√		
20	Q2	53-55									√		
21	I3	56									√		
22	P2	57-58									√		
									Cellulose	—	7 STR		
									Gypsum	—	49 STR		
									Glass	—	1 STR		

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

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):**	3600
Lab Group #:	9041	**Filter Type / Filter Area:**	MCE 385 mm²
Lab Sample #:	2	**Grid Opening Size:**	0.01124
Client Sample #:	05	**Area Examined:**	0.24728 mm²
GRID BOX:	1475	**Magnification:**	20,000
GRID ID:	2MJ	**Accelerating Voltage:**	100 KeV
# Grid Openings:	22	**Analysis Date:**	10/30/02

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	Y2	1-4									✓		
2	R2	5-7									✓		
3	K2	8-12									✓		
4	F2	13-14									✓		
5	E2	15-18									✓		
6	J3	19									✓		
7	Q2	20-21									✓		
8	X2	NSD											
9	V2	NSD											
10	P2	22-24									✓		
11	I2	25-29									✓		
12	Y2	30-32									✓		
13	R1	33-35									✓		
14	K6	37-41									✓		
15	F8	42-43									✓		
16	E3	44-45									✓		
17	J1	46-47									✓		
18	Q2	NSD											
19	X2	48									✓		
20	V2	49-51									✓		
21	T8	52-58									✓		
22	N8	59-60									✓		
									Cellulose – 8 STR				
									Gypsum – 49 STR				
									Glass – 3 STR				

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

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

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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):**	3600
Lab Group #:	9041	**Filter Type / Filter Area:**	MCE 385 mm²
Lab Sample #:	3	**Grid Opening Size:**	0.01124
Client Sample #:	06	**Area Examined:**	0.24728 mm²
GRID BOX:	1475	**Magnification:**	20,000
GRID ID:	3A-C	**Accelerating Voltage:**	100 KeV
# Grid Openings:	22	**Analysis Date:**	10/30/02

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	G1	1									√		
2	M2	2									√		
3	T1	3-6									√		
4	N2	5-10									√		
5	H3	11-13									√		
6	C2	14-18									√		
7	O2	19-25									√		
8	I2	26-30									√		
9	P1	31-33									√		
10	V1	34-35									√		
11	X2	36-41									√		
12	Q2	42-43 √						V+9V		JCAMPS			
13	J2	44									√		
14	E2	45-46									√		
15	F2	47-50									√		
16	R2	NSD											
17	R2	51-55									√		
18	V3	56									√		
19	P4	57									√		
20	I8	58-60									√		
21	F2	61									√		
3C 22	K6	62-63									√		
							Cellulose – 9 STR						
							Gypsum – 51 STR						
							Glass – 3 STR						

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

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):**	3600
Lab Group #:	9041	**Filter Type / Filter Area:**	MCE 385 mm²
Lab Sample #:	4	**Grid Opening Size:**	0.01124
Client Sample #:	07	**Area Examined:**	0.24728 mm²
GRID BOX:	1475	**Magnification:**	20,000
GRID ID:	3E6	**Accelerating Voltage:**	100 KeV
# Grid Openings:	22	**Analysis Date:**	10/30/02

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	F2	1-3									✓		
2	K2	4-5									✓		
3	R2	6-13									✓		
4	Y2	14-15									✓		
5	X2	16-17									✓		
6	Q2	18									✓		
7	J2	19-21									✓		
8	E2	22-24									✓		
9	D2	25									✓		
10	I2	26-27									✓		
11	P1	28									✓		
12	T2	29									✓		
13	N2	30									✓		
14	H1	31-32									✓		
3E 15	I2	33-36									✓		
16	P2	NSD											
17	V2	37		✓				✓	✓				
18	X2	38-39									✓		
19	Q2	40-41									✓		
20	J2	42-43									✓		
21	K3	44-45									✓		
22	R1	46-49									✓		
									Cellulose	— 6 STR.			
									Gypsum	— 4 STR			
									Glass	— 2 STR			

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

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):**	3600
Lab Group #:	9041	**Filter Type / Filter Area:**	MCE 385 mm²
Lab Sample #:	5	**Grid Opening Size:**	0.01124
Client Sample #:	08	**Area Examined:**	0.24728 mm²
GRID BOX:	1475	**Magnification:**	20,000
GRID ID:	3I4B	**Accelerating Voltage:**	100 KeV
# Grid Openings:	22	**Analysis Date:**	10/30/02

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)
3I 1	H1	1-2									√		
2	N1	3-4									√		
3	T2	5-7									√		
4	V2	8-10									√		
5	P2	11-13									√		
6	I2	14-18									√		
7	Q1	19-23									√		
8	E2	24-25									√		
9	J3	26-27									√		
10	Q2	28									√		
11	X2	29-30									√		
12	F2	31-32									√		
13	K2	33		√				√	√				
14	R2	34-35									√		
4B 15	Y1	36-39									√		
16	X2	40-42									√		
17	Q2	43									√		
18	J2	NSD											
19	E2	NSD											
20	Q3	44-46									√		
21	I1	47-48									√		
22	P8	49-50									√		
									Cellulose — 7 STR				
									Gypsum — 42 STR				
									Glass — 1 STR				

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

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):**	3600
Lab Group #:	9041	**Filter Type / Filter Area:**	MCE 385 mm²
Lab Sample #:	6	**Grid Opening Size:**	0.01124
Client Sample #:	09	**Area Examined:**	0.24728 mm²
GRID BOX:	1475	**Magnification:**	20,000
GRID ID:	48F	**Accelerating Voltage:**	100 KeV
# Grid Openings:	22	**Analysis Date:**	10/30/02

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	T2	1-5									√		
2	N2	6-9									√		
3	H3	10		√				√	√				
4	C3	11-16									√		
5	D2	NSD											
6	I2	17-19									√		
7	P2	20									√		
8	V2	21-23									√		
9	X2	24-26									√		
10	Y2	27-29									√		
11	R1	30-36									√		
12	X2	37		√				√	√				
13	Q2	38		√				√	√				
14	J2	39-44									√		
15	E2	45-50									√		
16	Q2	51-58									√		
17	I2	59-65									√		
18	P2	66-73									√		
19	V3	74-78									√		
20	T2	79-87									√		
21	Y2	88-93									√		
22	R2	94		√				√	√				
								Cellulose	— 13		STR		
								Gypsum	— 8076		STR		
								Glass	— 1		STR.		

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

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):**	3600
Lab Group #:	9041	**Filter Type / Filter Area:**	MCE 385 mm²
Lab Sample #:	7	**Grid Opening Size:**	0.01124
Client Sample #:	10	**Area Examined:**	0.24728 mm²
GRID BOX:	1475	**Magnification:**	20,000
GRID ID:	4HJ	**Accelerating Voltage:**	100 KeV
# Grid Openings:	22	**Analysis Date:**	10/30/02

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	
4H 1	TZ	1-3									√		
2	NZ	4-5									√		
3	H1	6									√		
4	CZ	7-8									√		
5	DZ	NSD									√		
6	IZ	NSD											
7	PZ	9-10									√		
8	VZ	11									√		
9	X1	12									√		
10	QZ	13	√					√	√				
		14-15									√		
11	JZ	16									√		
12	XZ	17-21									√		
13	QZ	22-25									√		
14	JZ	26-27									√		
HJ 15	E1	NSD											
16	DZ	28-29									√		
17	I1	30-32									√		
18	PZ	33-34									√		
19	VZ	NSD									√		
20	TZ	35									√		
21	NZ	36				√	√		√				
		37-39									√		
22	H3	40-42					Cellulose — 6 STR				~~√~~		
							Gypsum — 32 STR						
							Glass — 2 STR						

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

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):**	3600
Lab Group #:	9041	**Filter Type / Filter Area:**	MCE 385 mm²
Lab Sample #:	8	**Grid Opening Size:**	0.01124
Client Sample #:	11	**Area Examined:**	0.24728 mm²
GRID BOX:	1475	**Magnification:**	20,000
GRID ID:	5AC	**Accelerating Voltage:**	100 KeV
# Grid Openings:	22	**Analysis Date:**	10/30/02

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	C2	1									√		
2	H3	2-3									√		
3	N2	4-5									√		
4	V2	9									√		
5	P2	10-11									√		
6	I2	12									√		
7	Q2	NSD									~~√~~		
8	E2	13-16									√		
9	J3	17									√		
10	Q3	18									√		
11	K4	19-21									√		
12	C2	22-23									√		
13	H1	24-26									√		
5C 14	N1	27-28									√		
15	T2	NSD											
16	N2	29-31									√		
17	P2	32-34									√		
18	I2	35-37									√		
19	J2	38-39									√		
20	Q2	40-43									√		
21	X2	44-46									√		
								Cellulose – 7 STR					
								Gypsum – 39 STR					

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

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):**	3600
Lab Group #:	9041	**Filter Type / Filter Area:**	MCE 385 mm²
Lab Sample #:	9	**Grid Opening Size:**	0.01124
Client Sample #:	12	**Area Examined:**	0.24728 mm²
GRID BOX:	1475	**Magnification:**	20,000
GRID ID:	5E6	**Accelerating Voltage:**	100 KeV
# Grid Openings:	22	**Analysis Date:**	10/30/02

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)
5E 1	T2	1-2									√		
2	N2	NSD											
3	H1	3									√		
4	C2	4									√		
5	O2	5				√	√		√				
		6		√				√	√				
		7-9									√		
6	I2	10-11									√		
7	P2	12-15									√		
8	V1	16									√		
9	X2	17-18									√		
10	Q2	NSD											
11	J2	19									√		
12	Y2	20		√				√	√				
*		21									√		
13	R2	22-24									√		
5G 14	K2	NSD									~~√~~		
15	F2	25									√		
16	E3	26-28									√		
17	J2	NSD											
18	Q2	NSD											
19	X2	29-31									√		
20	P6	32									√		
21	I6	33-34							Cellulose - 4	STR	√		
									Gypsum - 26	STR			
									Glass - 1	STR			

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

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):**	3600
Lab Group #:	9041	**Filter Type / Filter Area:**	MCE 385 mm²
Lab Sample #:	10	**Grid Opening Size:**	0.01124
Client Sample #:	13	**Area Examined:**	0.24728 mm²
GRID BOX:	1475	**Magnification:**	20,000
GRID ID:	5I6B	**Accelerating Voltage:**	100 KeV
# Grid Openings:	22	**Analysis Date:**	10/30/02

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)
5I													
1	Y2	1-3									√		
2	R2	4-8									√		
3	K2	9-10									√		
4	J2	11-12									√		
5	Q2	13-16									√		
6	X2	16-21									√		
7	V2	22-27									√		
8	P2	28-31									√		
9	I2	32-35									√		
10	A2	36	√					√	√				
		37^									√		
11	C9	39		√				√	√				
12	F2	40		√				√	√				
		41	√				√		√				
		44-43									√		
13	K2	44-45									√		
6B													
14	R1	46-49									√		
15	Y2	50									√		
16	X2	51		√				√	√				
		52									√		
17	Q4	53-56									√		
18	J2	57									√		
19	E2	58-59									√		
20	D6	60					Cellulose		- 8 STR		√		
21	I1	61					Gypsum		~~-53 STR~~ 48 STR		√		

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

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_000131610

NYC 9/11 Public Portal Document

TEM Asbestos (air) Count Sheet

Client Name:	ATC	**Volume (liters):**	3600
Lab Group #:	9041	**Filter Type / Filter Area:**	MCE 385 mm²
Lab Sample #:	11	**Grid Opening Size:**	0.01124
Client Sample #:	14	**Area Examined:**	0.24728 mm²
GRID BOX:	1475	**Magnification:**	20,000
GRID ID:	6DF	**Accelerating Voltage:**	100 KeV
# Grid Openings:	22	**Analysis Date:**	10/30/02

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	C2	1-2									√		
2	H1	3									√		
3	N2	4									√		
4	T2	5									√		
5	V2	6-8									√		
6	P2	9									√		
7	J2	10-12									√		
8	D2	13									√		
9	E2	NSD											
10	J2	14									√		
11	Q2	15									√		
12	Y2	16									√		
13	R2	NSD											
14	K2	17									√		
15	F4	18									√		
16	E8	19									√		
17	J4	NSD											
18	Q3	20-21									√		
19	X1	NSD											
20	V2	22				√	√		√				
21	P2	23-25									√		
							Cellulose	– 3 STR					
							Gypsum	– 21 STR					

^ Photo No. (from 1 in 5 asbestos containing samples)
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):**	3600
Lab Group #:	9041	**Filter Type / Filter Area:**	MCE 385 mm²
Lab Sample #:	12	**Grid Opening Size:**	0.01124
Client Sample #:	15	**Area Examined:**	0.24728 mm²
GRID BOX:	1475	**Magnification:**	20,000
GRID ID:	6HJ	**Accelerating Voltage:**	100 KeV
# Grid Openings:	22	**Analysis Date:**	10/30/02

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	T2	1									✓		
2	N2	NSD									✓		
3	H1	2-3									✓		
4	I4	NSD											
5	O2	4									✓		
6	V1	NSD											
7	X2	NSD											
8	Q2	5-6									✓		
9	J3	NSD											
10	E2	NSD											
11	E4	NSD											
12	T2	NSD											
13	N3	7-8									✓		
14	H3	9-10									✓		
15	I2	11-12									✓		
16	J2	13									✓		
17	Q2	14-15									✓		
18	X2	NSD											
19	Y2	10									✓		
20	R2	11				✓		✓	✓				
		12									✓		
21	K2	13									✓		
22	L2	14-17									✓		
							Cellulose - 4 STR						
							Gypsum - 12 STR						

^ Photo No. (from 1 in 5 asbestos containing samples)
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):**	3600
Lab Group #:	9041	**Filter Type / Filter Area:**	MCE 385 mm²
Lab Sample #:	13	**Grid Opening Size:**	0.01124
Client Sample #:	16	**Area Examined:**	0.24728 mm²
GRID BOX:	1475	**Magnification:**	20,000
GRID ID:	7A & 7C	**Accelerating Voltage:**	100 KeV
# Grid Openings:	22	**Analysis Date:**	10/30/02

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	C2	1-2									√		
2	H1	NSD											
3	N2	3									√		
4	T2	4									√		
5	V2	5									√		
6	P2	6									√		
7	I2	7-9									√		
8	Q2	10-11									√		
9	E2	12				√		√	√				
		13-14									√		
10	J2	15-16									√		
11	Q2	17-19									√		
12	J2	NSD											
13	N2	20									√		
14	H1	21-22									√		
15	C2	23									√		
16	Q2	24									√		
17	I2	25-28									√		
18	P2	29-30									√		
19	V2	31									√		
20	X2	32									√		
21	Q3	33-36									√		
22	X2	37									√		
							Cellulose - 5 STR						
							Gypsum 30 STR						
							Glass - 1 STR						

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

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):**	3600
Lab Group #:	9041	**Filter Type / Filter Area:**	MCE 385 mm²
Lab Sample #:	14	**Grid Opening Size:**	0.01124
Client Sample #:	17	**Area Examined:**	0.24728 mm²
GRID BOX:	1475	**Magnification:**	20,000
GRID ID:	7EG	**Accelerating Voltage:**	100 KeV
# Grid Openings:	22	**Analysis Date:**	10/30/02

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)
7E	1	F1	1-2									√		
	2	K2	3-4									√		
	3	R2	5									√		
	4	Y2	NSD											
	5	X2	6									√		
	6	Q2	7									√		
	7	J2	NSD											
	8	E2	8-9									√		
	9	D2	10									√		
	10	I2	11-12									√		
	11	P2	13-14									√		
	12	Y2	15									√		
	13	R2	16									√		
7G	14	K2	17-18									√		
	15	F2	19-21									√		
	16	E2	22-24									√		
	17	J2	25-26									√		
	18	Q2	27									√		
	19	K2	28									√		
	20	V2	29									√		
	21	P2	NSD									√		
	22	I2	30									√		
								Cellulose - 4 SPR						
								Gypsum - 24 SPR						
								Glass - 2 SPR						

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

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):**	3600
Lab Group #:	9041	**Filter Type / Filter Area:**	MCE 385 mm²
Lab Sample #:	15	**Grid Opening Size:**	0.01124
Client Sample #:	18	**Area Examined:**	0.24728 mm²
GRID BOX:	1475	**Magnification:**	20,000
GRID ID:	7I8B	**Accelerating Voltage:**	100 KeV
# Grid Openings:	22	**Analysis Date:**	10/30/02

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)
7I 1	T2	1									√		
2	N2	2-3									√		
3	H3	4											
4	C3	NSD									√		
5	Q2	5-6									√		
6	I2	7											
7	P2	NSD				√	√		√				
8	V2	8									√		
		9-10											
9	X2	NSD									√		
10	Q2	11											
11	J2	NSD									√		
12	F8	12-13									√		
13	K8	14-16							√		~~√~~		
14 8B	R8	1-7				√					√		
15	Y8	18									√		
16	Q2	19-20									√		
17	J2	21									√		
18	E2	22									√		
19	Q2	23-25									√		
20	I2	26-28									√		
21	P2	29-30									√		
22	V1	31											
											cellulose – 4 STR		
											gypsum – 25 STR		

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

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):**	3600
Lab Group #:	9041	**Filter Type / Filter Area:**	MCE 385 mm²
Lab Sample #:	16	**Grid Opening Size:**	0.01124
Client Sample #:	19	**Area Examined:**	0.24728 mm²
GRID BOX:	1475	**Magnification:**	20,000
GRID ID:	8DF	**Accelerating Voltage:**	100 KeV
# Grid Openings:	22	**Analysis Date:**	10/30/02

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)
8D 1	T1	1-6									√		
2	N2	7-18									√		
3	H1	19	~				√		√				
		20				√	√		√				
		21-27									√		
4	C2	28	~					√	~				
		29				√		√	~				
		30-35									√		
5	D2	36-44									√		
6	E2	45-54									√		
7	P2	55-60									√		
8	V2	61-75									√		
9	X2	76-82									√		
10	Q2	83				~		√	~				
		84				~	~		~				
		85-96											
11	J1	97				~	~		~				
		98-106									√		
12	F2	107				√		√	√				
		108				√	√		~				
		109				√		√	√				
8F		110-117									√		
13	K2	118		√				√	~				
		119-126									√		
14	R6	127-132									√		
15	Y2	133		~			~		~				

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

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

PAGE 2 OF —

TEM Asbestos (air) Count Sheet

Client Name:	ATC	**Volume (liters):**	3600
Lab Group #:	9041	**Filter Type / Filter Area:**	MCE 385 mm²
Lab Sample #:	16	**Grid Opening Size:**	0.01124
Client Sample #:	19	**Area Examined:**	0.04496 mm²
GRID BOX:	1475	**Magnification:**	20,000
GRID ID:	80F	**Accelerating Voltage:**	100 KeV
# Grid Openings:	422	**Analysis Date:**	10/30/02

Analysis Performed By: RP
ROMAN PEYSAKHOV

cont

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)
		134-136	√				√√√		√				
		137-141									√		
16	X2	142	√				√		√				
		143-153									√		
17	Q2	154	√				√		√				
		155-163									√		
18	J3	164-167	√				√√√		√				
		168-179									√		
19	E1	180					√		√				
		181-190									√		
20	B1	191-204									√		
21	I2	205				√	√		√				
		206		√			√		√				
		207-209	√				√√√		√				
		210-219									√		
22	P1	220		√				√	√				
		221	√					√	√				
		222-224				√	√√		√				
		225-231									√		
		TOTAL					24	8					

cellulose — 26 STR
Gypsum — 158 STR
Glass — 15 STR

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

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):**	3600
Lab Group #:	9041	**Filter Type / Filter Area:**	MCE 385 mm²
Lab Sample #:	17	**Grid Opening Size:**	0.01124
Client Sample #:	20	**Area Examined:**	0.24728 mm²
GRID BOX:	1475	**Magnification:**	20,000
GRID ID:	8HJ	**Accelerating Voltage:**	100 KeV
# Grid Openings:	22	**Analysis Date:**	10/30/02

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)
8H	1	C2	1-2				√	√		√				
			3-6									√		
	2	H1	7-11									√		
	3	N1	12-21									√		
	4	T2	22				√	√		√				
			23-29									√		
	5	V2	30	√				√		√				
			31-38									√		
	6	P2	39		√				√	√				
			40-49									√		
	7	J2	50-55									√		
	8	D2	56-63									√		
	9	E2	64-65									√		
	10	J1	66-70									√		
	11	Q3	71				√	√		√				
			72-76									√		
	12	T2	77-83									√		
	13	N2	84				√	√		√				
			85-91									√		
8J	14	H1	92				√	√		√				
			93-100									√		
	15	C2	101		√				√	√				
			102-108									√		
	16	D2	109				√	√		√				
			109-117									√		
	17	I2	118				√	√		√				

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

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):**	3600
Lab Group #:	9041	**Filter Type / Filter Area:**	MCE 385 mm²
Lab Sample #:	17	**Grid Opening Size:**	0.01124
Client Sample #:	20	**Area Examined:**	0.04496 mm²
GRID BOX:	1475	**Magnification:**	20,000
GRID ID:	8HJ	**Accelerating Voltage:**	100 KeV
# Grid Openings:	422	**Analysis Date:**	10/30/02

Analysis Performed By: RP
ROMAN PEYSAKHOV

cont

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)
	9	119		√				√	√				
		120-127									√		
18	P1	128				√	√		√				
		129				√	√		√				
		130				√	√		√				
		131				√	√		√				
		132-140									√		
19	V2	141		√			√		√				
		142				√	√		√				
		143-149									√		
20	X2	150				√	√		√				
		151-159									√		
21	Q2	160-167									√		
22	J2	168-177									√		
		TOTAL					16	3					

Cellulose — 21 STR
Gypsum — 130 STR
Glass — 7 STR

^ Photo No. (from 1 in 5 asbestos containing samples)
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):**	3600
Lab Group #:	9041	**Filter Type / Filter Area:**	MCE 385 mm²
Lab Sample #:	18	**Grid Opening Size:**	0.01124
Client Sample #:	21	**Area Examined:**	0.24728 mm²
GRID BOX:	1475	**Magnification:**	20,000
GRID ID:	9AC	**Accelerating Voltage:**	100 KeV
# Grid Openings:	22	**Analysis Date:**	10/30/02

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	D2	1				√	√		√				
		2-4									√		
2	I2	5-9									√		
3	P2	10-11									√		
4	V2	12		√				√	√				
		13-15									√		
5	X2	16				√	√		√				
		17-19									√		
6	Q2	20				√		√	√				
		21-28									√		
7	J2	29-30									√		
8	E2	31	√				√		√				
		32				√	√		√				
		33-34									√		
9	F1	35-36									√		
10	K2	37		√				√	√				
		38-40									√		
11	R1	41				√	√		√				
		42-45									√		
12	T2	46-48	√				√√		√				
		49-54									√		
13	N1	55-56									√		
9C 14	H1	57			1	√	√		√				
		58-62									√		
15	C3	63				√	√		√				
		64-67									√		

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

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):**	3600
Lab Group #:	9041	**Filter Type / Filter Area:**	MCE 385 mm²
Lab Sample #:	18	**Grid Opening Size:**	0.01124
Client Sample #:	21	**Area Examined:**	0.04496 mm²
GRID BOX:	1475	**Magnification:**	20,000
GRID ID:	9AC	**Accelerating Voltage:**	100 KeV
# Grid Openings:	422	**Analysis Date:**	10/30/02

Analysis Performed By: RP
ROMAN PEYSAKHOV

count

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)
9C 16	Q2	68-73									✓		
17	I1	74-77									✓		
18	P2	78	✓					✓	✓				
		79-86									✓		
19	V2	87-93									✓		
20	X2	94-98									✓		
21	Q3	99				✓	2		✓				
		100-102									✓		
22	J3	103-107									✓		
		TOTAL					11	M					

Cellulose – 13 STR
Gypsum – 77 STR
Glass – 2 STR

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

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):**	3600
Lab Group #:	9041	**Filter Type / Filter Area:**	MCE 385 mm²
Lab Sample #:	19	**Grid Opening Size:**	0.01124
Client Sample #:	22	**Area Examined:**	0.24728 mm²
GRID BOX:	1475	**Magnification:**	20,000
GRID ID:	9EG	**Accelerating Voltage:**	100 KeV
# Grid Openings:	22	**Analysis Date:**	10/30/02

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	FZ	1			√		√		√				
		2-6									√		
2	KZ	7				√		√	√				
		8-15									√		
3	RZ	16-18									√		
4	TZ	19-25									√		
5	XZ	26	√				√		√				
		27-33									√		
6	QZ	34	√				√		√				
		35-41									√		
7	JZ	42-51									√		
8	EZ	52-63									√		
9	QZ	64-75									√		
10	IZ	76	√				√		√				
		77-84									√		
11	PZ	85				√	√		√				
		86-92									√		
12	DZ	93		√				√	√				
		94				√	√		√				
		95-99									√		
13	IZ	100			1	√	√		√				
		101				√	√		√				
		102-106									√		
14	PZ	107		√			√		√				
		108-116									√		
15	VY	117		√				√	√				

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

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):**	3600
Lab Group #:	9041	**Filter Type / Filter Area:**	MCE 385 mm²
Lab Sample #:	19	**Grid Opening Size:**	0.01124
Client Sample #:	22	**Area Examined:**	0.24728 mm²
GRID BOX:	1975	**Magnification:**	20,000
GRID ID:	9EG	**Accelerating Voltage:**	100 KeV
# Grid Openings:	22	**Analysis Date:**	10/30/02

Analysis Performed By: ROMAN PEYSAKHOV

Count

QC

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)
		118-123									√		
16	X2	124				√	√		√				
		125-134									√		
17	Q2	135-138									√		
18	J2	139	√				√		√				
		140				√		√	√				
		141-147									√		
19	E2	148-150									√		
20	F2	151				√	√		√				
		152		√				√	√				
		153-160									√		
21	K2	161				√	√		√				
		162-170									√		
22	R7	171		√				√	√				
		172				√	√		√				
		173-180									√		
									Cellulose :-			22	STR
									Gypsum -			134	STR
									Glass -			4	STR
		TOTAL:					14	6					

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

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):**	3600
Lab Group #:	9041	**Filter Type / Filter Area:**	MCE 385 mm²
Lab Sample #:	20	**Grid Opening Size:**	0.01124
Client Sample #:	23	**Area Examined:**	0.24728 mm²
GRID BOX:	1475	**Magnification:**	20,000
GRID ID:	9I10B	**Accelerating Voltage:**	100 KeV
# Grid Openings:	22	**Analysis Date:**	10/30/02

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)
9I 1	T2	1-6									√		
2	N2	7-8									√		
3	H3	9-12									√		
4	C2	13				√	√		√				
		14-18									√		
5	D2	19				√	√		√				
		20-24									√		
6	I2	25-27									√		
7	P2	28-30									√		
8	V2	31-34									√		
9	X2	35-39									√		
10	Q2	40		√				√	√				
		41-45									√		
11	I3	46									√		
12	F2	47-49									√		
13	K2	50-53									√		
14	R2	54-58									√		
10B 15	Y2	59-64									√		
16	X2	65-68									√		
17	Q2	69	√				√			√			
		70-76									√		
18	X2	77-81									√		cellulose - 12 5
19	V2	82-85									√		gypsum - 74 5
20	P1	86-88									√		Glass - 4 5
21	I2	89-93									√		
22	D1	94									√		

^ Photo No. (from 1 in 5 asbestos containing samples) TOTAL 3 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-WTC_000131625

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:
DEP	DEP Clean-up	15-22906-0002	E. Lemanovich	HR-22
	2a. Project Address: 125 Cedar St NY	3a. Task # 00001	4a. Air Sampler: T. Amstislavskiy	

5. Date:	6. Abatement Location:	7. ☑ PCM (0.8 micron MCE)	8. ☐ TEM (0.45 micron MCE)	9. Type:
10.28.02	Apartments #9S, 8N, 3S, 2N	Cassette/Filter Manufacture: Lot # 01344108	Cassette/Filter Manufacture: Lot #	a. ☐ Background b. ☐ Pre-Abate c. ☐ Abatement d. ☐ Post-Abate e. ☐ OSHA f. ☐ Environmental g. ☐ Ambient h. ☑ Other cleaning

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, 03				Field Blank								0/100	
04		V		Apartment #9 South	20:30	02:30	360	10	10	10	3600	1/100	<0.001
05		V		— " —	20:32	02:32	360	10	10	10	3600	32/100	0.004
06		V		— " —	20:34	02:34	360	10	10	10	3600	33/100	0.004
07		V		— " —	20:36	02:36	360	10	10	10	3600	40/100	0.005
08		V		— " —	20:38	02:38	360	10	10	10	3600	35/100	0.005
09		V		Apartment #8 North	20:55	02:55	360	10	10	10	3600	37/100	0.005

CHAIN OF CUSTODY

	18. Relinquished By:	19. Received By:	20. Date:	21. Time:
I	E Lemanovich	A. Ellman	10.29.02	7:00
II				
III				

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

22. Lab Name: PCM Lab	23. Date:	24. Time:
a. Analyzed By: A. Ellman	10/29/02	16:00
b. QC By:		
c. Lab Batch #: 101821		

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

Analysis Methodology
PCM - NIOSH 7400A
TEM - AHERA

26. ATC Project Manager: B. Sallemi

27. Result To: B. Sallemi
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_000131627

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:
DEP	DEP Clean-up	15-22906-0002	E. Lemanovich	HR-22
	2a. Project Address: 125 Cedar St NY	3a. Task #: 00001	4a. Air Sampler: T. Amstislavskiy	

5. Date:	6. Abatement Location:	7. ☑ PCM (0.8 micron MCE)	8. ☐ TEM (0.45 micron MCE)	9. Type:
10.28.02	Apartments: # 9S, 8N, 3S, 2N	Cassette/Filter Manufacture _____ Lot # 01344108	Cassette/Filter Manufacture _____ Lot # _____	a. ☐ Background b. ☐ Pre-Abate c. ☐ Abatement d. ☐ Post-Abate e. ☐ OSHA f. ☐ Environmental g. ☐ Ambient h. ☑ Other Cleaning

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		V		Apartment # 8 North	20:57	02:57	360	10	10	10	3600	28/100	0.004
11		V		— " —	20:59	02:59	360	10	10	10	3600	23/100	0.003
12		V		— " —	21:01	03:01	360	10	10	10	3600	22/100	0.003
13		V		— " —	21:03	03:03	360	10	10	10	3600	33/100	0.004
14		V		Apartment # 3 South	21:20	03:20	360	10	10	10	3600	23/100	0.003
15		V		— " —	21:22	03:22	360	10	10	10	3600	25/100	0.003

CHAIN OF CUSTODY

18. Relinquished By:	19. Received By:	20. Date:	21. Time:
I E. Lemanovich	A. Elbert	10.29.02	7:00
II			
III			

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

22. Lab Name: PCM Lab	23. Date:	24. Time:
a. Analyzed By: A. Elbert	10/29/02	16:00
b. QC By:		
c. Lab Batch #: 101821		

25. Microscope Make/Serial #: Olympus 002
☐ Nikon Labophot 238913
☐ Nikon Labophot 238917
☐ Nikon Labophot 239079

Analysis Methodology
PCM - NIOSH 7400A
TEM - AHERA

26. ATC Project Manager: B Sallemi

27. Result To: B Sallemi
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_000131628

NYC-WTC_000131629

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:
DEP	DEP Clean-up	15-22906-0002	E. Lemanovich	HR-22
	2a. Project Address: 125 Cedar St NY	3a. Task # 00001	4a. Air Sampler: T. Awstislavskiy	

5. Date:	6. Abatement Location:	7. ☑ PCM (0.8 micron MCE)	8. ☐ TEM (0.45 micron MCE)	9. Type:
10.28.02	Apartments: #9S, 8N, 3S, 2N	Cassette/Filter Manufacture: Lot # 01344108	Cassette/Filter Manufacture: Lot #	a. ☐ Background b. ☐ Pre-Abate c. ☐ Abatement d. ☐ Post-Abate e. ☐ OSHA f. ☐ Environmental g. ☐ Ambient h. ☑ Other Cleaning

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									
16		✓		Apartment # 3 South	21:24	03:24	360	10	10	10	3600	14/100	0.002
17		✓		— " —	21:26	03:26	360	10	10	10	3600	15/100	0.002
18		✓		— " —	21:28	03:28	360	10	10	10	3600	11/100	0.001
19		✓		Apartment # 2 North	21:45	03:45	360	10	10	10	3600	100/96	0.014
20		✓		— " —	21:47	03:47	360	10	10	10	3600	69/100	0.009
21		✓		— " —	21:49	03:49	360	10	10	10	3600	46/100	0.006

CHAIN OF CUSTODY

	18. Relinquished By:	19. Received By:	20. Date:	21. Time:
I	E. Lemanovich	A. Elbert	10.29.02	7:00 am
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 #: 101821		

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

Analysis Methodology
PCM - NIOSH 7400A
TEM - AHERA

26. ATC Project Manager: B. Salleni

27. Result To: B. Salleni
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

NYC-WTC_00013163

AIR MONITORING DATA AND CHAIN OF CUSTODY FORM

ATC ASSOCIATES INC.

Page 4 of 4

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:
DEP	DEP Clean-up	15-22906-0002	E. Lemanovich	HR-22
	2a. Project Address: 125 Cedar St. NY	3a. Task # 00001	4a. Air Sampler: T. Amstislavskiy	

Date:	6. Abatement Location:	7. ☑ PCM (0.8 micron MCE)	8. ☐ TEM (0.45 micron MCE)	9. Type:
9.28.02	Apartments #9S, 8N, 3S, 2N	Cassette/Filter Manufacture _____ Lot # 01344108	Cassette/Filter Manufacture _____ Lot # _____	a. ☐ Background b. ☐ Pre-Abate c. ☐ Abatement d. ☐ Post-Abate e. ☐ OSHA f. ☐ Environmental g. ☐ Ambient h. ☑ Other Cleaning

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									
22		✓		Apartment # 2North	21:51	03:51	360	10	10	10	3600	100/17	0.014
23		✓		— " —	21:53	03:53	360	10	10	10	3600	69/100	0.009

CHAIN OF CUSTODY

18. Relinquished By:	19. Received By:	20. Date:	21. Time:
E. Lemanovich	A. Elbert	10.29.02	PM Time
I			
II			

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

22. Lab Name: PCM Lab	23. Date:	24. Time:
a. Analyzed By: A. Elbert	10/29/02	16:00
b. QC By:		
c. Lab Batch #: 101821		

25. Microscope Make/Serial #: Olympus
☐ 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:
B. Salleni	B Salleni	
	Beeper/Phone #'s _____	

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

NYC-WTC_000131632

TRANSMISSION VERIFICATION REPORT

TIME : 10/31/2002 13:34
NAME :
FAX : 2123533599
TEL :

DATE,TIME	10/31 13:31
FAX NO./NAME	917185953744
DURATION	00:03:08
PAGE(S)	05
RESULT	OK
MODE	STANDARD

VATC ASSOCIATES INC.
104 EAST 25TH STREET
NEW YORK, NEW YORK 10010-2917
(TEL.) 212-353-8280 (FAX) 212-353-8306

FAX TRANSMITTAL

DATE:
TO: Penny Theodorellys
COMPANY: NYCDEP
ADDRESS: **59-17 Junction Blvd.**
PHONE NUMBER: **718-595-3657**
FAX NUMBER: **718-595-3744**
FROM: Benjamin M. Sallemi
PHONE NUMBER: 212.353.8280 ext. 295

SUBJECT: 125 Cedar Street – ACM Results

NUMBER OF PAGES TO FOLLOW COVER: 4

Message:

Penny,

If you have any questions, please feel free to contact me at the telephone number above.

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: Benjamin Sallemi
ATC Associates Inc.
104 East 25th Street
New York NY 10010

Fax: (212) 353-3599 **Phone:** (212) 353-8280

Project: DEP Clean-up ATC Project #: 22906-0002
125 Cedar Street, New York, NY

Received: 10/31/02 9:30:00 PM
ATC Group #: 9045
Analysis Date: 11/1/02

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

Sample	*Volume*	*Area Analyzed*	*Non Asb*	*Asbestos Type(s)*	*# Structures 0.5µ-5*	*5µ*	*Analytical Sensitivity (S/cc)*	*Total Asbestos Concentration (S/mm²)*	*(S/cc)*	*Asbestos Concentration (S > 5µ/cc)*
08 *9045 -1*	3600.00	0.2473	19	CHRYSOTILE	0	1	0.0004	4.04	0.0004	0.0004
09 *9045 -2*	3600.00	0.2473	24	None Detected	0	0	0.0004	<4.04	<0.0004	< 0.0004
10 *9045 -3*	3600.00	0.2473	18	CHRYSOTILE	1	2	0.0004	12.13	0.0013	0.0009
11 *9045 -4*	3600.00	0.2473	24	CHRYSOTILE	1	2	0.0004	12.13	0.0013	0.0009
12 *9045 -5*	3600.00	0.2473	15	CHRYSOTILE	2	2	0.0004	16.18	0.0017	0.0009
18 *9045 -6*	3600.00	0.2473	02	CHRYSOTILE	8	6	0.0004	56.62	0.0061	0.0026
19 *9045 -7*	3600.00	0.2473	02	CHRYSOTILE	4	7	0.0004	44.48	0.0048	0.0030

ROMAN 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-WTC_000131634

NYC 9/11 Public Portal Document

Attn: Benjamin Sallemi
ATC Associates Inc.
104 East 25th Street
New York NY 10010
Fax: (212) 353-3599 **Phone:** (212) 353-8280

Received: 10/31/02 9:30:00 PM
ATC Group #: 9045
Analysis Date: 11/1/02

Project: DEP Clean-up ATC Project #: 22906-0002
125 Cedar Street, New York, NY

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

Sample	*Volume*	*Area Analyzed*	*Non Asb*	*Asbestos Type(s)*	*# Structures 0.5μ-5*	*5μ*	*Analytical Sensitivity (S/cc)*	*Total Asbestos Concentration (S/mm²)*	*(S/cc)*	*Asbestos Concentration (S > 5μ/cc)*
20 *9045 -8*	3600.00	0.2473	02	CHRYSOTILE	8	3	0.0004	44.48	0.0048	0.0013
21 *9045 -9*	3600.00	0.2473	02	CHRYSOTILE	9	3	0.0004	48.53	0.0052	0.0013
22 *9045 -10*	3600.00	0.2473	02	CHRYSOTILE	6	2	0.0004	32.35	0.0035	0.0009

ROMAN 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-WTC_000131635

ATC ASSOCIATES INC.

9045

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 ASAP

ROJECT INFORMATION

Client:	2. Project Name	3. Project #	4. Project Monitor:	4c. Rotameter Number:
DEP	DEP Clean up	22906-0002	Paul Pinto	HP 108
	2a. Project Address: 125 Cedar St	3a. Task #: 0001	4a. Air Sampler: M Andolu	

Date:	6. Abatement Location:	7. ☐ PCM (0.8 micron MCE)	8. ☐ TEM (0.45 micron MCE)	9. Type:
10-31-02	9S-8N-3S-2N	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
06				Field Blank opene									
07				Field Blank closed									
08				apt 8 North	1410	2010	360	10	10	10	3600		
09				"	1411	2011	360	10	10	10	3600		
010				"	1412	2012	360	10	10	10	3600		
011				"	1413	2013	360	10	10	10	3600		
012				"	1414	2014	360	10	10	10	3600		

HAIN OF CUSTODY

Relinquished By:	19. Received By:	20. Date:	21. Time:
[signature]	RRuy	10-31-02	21:30

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

22. Lab Name: ATC-TEM	23. Date:	24. Time:
a. Analyzed By: RRuy	11/1/02	1:30
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

. ATC Project Manager: Ben Salomon

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

28. Comments:

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

NY-1 (1/01)

ATC ASSOCIATES INC.

AIR MONITORING DATA AND CHAIN OF CUSTODY FORM

9045

Page _____ of _____

TURNAROUND TIME

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

ROJECT INFORMATION

Client:	2. Project Name	3. Project #	4. Project Monitor:	4c. Rotameter Number:
DEP	DEP Clean up	22906-0002	[signature]	HP 108
	2a. Project Address: 125 Cedar St	3a. Task #: 0001	4a. Air Sampler: Mr Andolen	

Date:	6. Abatement Location:	7. ☐ PCM (0.8 micron MCE)	8. ☐ TEM (0.45 micron MCE)	9. Type:
10-31-02	9S-8N-3S-2N	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
				Field Blank									
				Field Blank									
18				apt 2 North	1440	2040	360	10	10	10			
19				"	1441	2041	360	10	10	10			
20				"	1442	2042	360	10	10	10			
21				"	1443	2043	360	10	10	10			
22				"	1444	2044	360	10	10	10			

HAIN OF CUSTODY

Relinquished By:	19. Received By:	20. Date:	21. Time:
[signature]	RRay	10-31-02	21:30
II			

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

22. Lab Name: ATC-TEM	23. Date:	24. Time:
a. Analyzed By: RRay	11/1/02	1:30
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

6. ATC Project Manager: Ben Lamm

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

28. Comments:

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

NY-1 (1/01)

NYC 9/11 Public Portal Document

TEM Asbestos (air) Count Sheet

Client Name:	ATC	**Volume (liters):**	3600
Lab Group #:	9045	**Filter Type / Filter Area:**	MCE 385 mm²
Lab Sample #:	1	**Grid Opening Size:**	0.01124
Client Sample #:	08	**Area Examined:**	0.24728 mm²
GRID BOX:	1477	**Magnification:**	20,000
GRID ID:	9I 10B	**Accelerating Voltage:**	100 KeV
# Grid Openings:	22	**Analysis Date:**	10/31/02

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)
9I 1	C2	NSD											
2	H3	1									√		
3	N2	NSD											
4	T2	NSD											
5	V2	NSD											
6	P2	2									√		
7	I2	NSD											
8	D2	NSD											
9	E2	3									√		
10	J3	4									√		
11	Q3	5									√		
12	C2	6									√		
13	H1	7-9									√		
14	N1	10-12									√		
10B 15	T2	13-14									√		
16	V3	NSD											
17	P2	15									√		
18	I2	16-17									√		
19	Q3	18									√		
20	J2	19									√		
5		20				√	√		√				
21	Q2	NSD											
22	X2	NSD											

Gypsum – 19 SR

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

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_000131638

NYC 9/11 Public Portal Document

TEM Asbestos (air) Count Sheet

Client Name:	ATC	**Volume (liters):**	3600
Lab Group #:	9045	**Filter Type / Filter Area:**	MCE 385 mm²
Lab Sample #:	2	**Grid Opening Size:**	0.01124
Client Sample #:	09	**Area Examined:**	0.24728 mm²
GRID BOX:	477	**Magnification:**	20,000
GRID ID:	10DF	**Accelerating Voltage:**	100 KeV
# Grid Openings:	22	**Analysis Date:**	10/31/02

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)
10D 1	C2	1									√		
2	H1	NSD											
3	N1	NSD											
4	T2	2									√		
5	V2	NSD											
6	P6	3-5									√		
7	I2	6-7									√		
8	Q2	8									√		
9	E2	9									√		
10	J2	10-11									√		
11	Q2	NSD											
12	T1	NSD											
13	N3	12-14									√		
14	H1	NSD											
10F 15	C2	15									√		
16	Q2	16-17									√		
17	I2	NSD											
18	P2	18-19									√		
19	X2	20									√		
20	Q2	21-22									√		
21	J2	23									√		
22	E2	24									√		

Cellulose – 22 STR
Gypsum – 22 STR

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

Struct = > 0.5µ , > 5:1 Aspect Ratio

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

v= 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):**	3600
Lab Group #:	9045	**Filter Type / Filter Area:**	MCE 385 mm²
Lab Sample #:	3	**Grid Opening Size:**	0.01124
Client Sample #:	10	**Area Examined:**	0.24728 mm²
GRID BOX:	1477	**Magnification:**	20,000
GRID ID:	10HJ	**Accelerating Voltage:**	100 KeV
# Grid Openings:	22	**Analysis Date:**	10/31/02

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)
10H 1	TZ	NSD											
2	NZ	NSD											
3	C7	1-2									√		
4	Q1	NSD											
5	IZ	3-4									√		
6	PZ	5									√		
7	VZ	NSD											
8	XZ	6									√		
9	QZ	7									√		
10	JZ	NSD											
11	EZ	8-9									√		
		10	√					√	√				
12	YZ	NSD											
13	RZ	11-12									√		
14	K1	13									√		
10J 15	J1	14				√	√		√				
		15									√		
16	Q3	NSD											
17	X1	NSD											
18	VZ	16									√		
19	PZ	17									√		
20	IZ	NSD											
21	QZ	NSD											
22	C8	18									√		
								Gypsum	— 17 STR				
								Chrys	— 1 STR				

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

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):**	3600
Lab Group #:	9045	**Filter Type / Filter Area:**	MCE 385 mm²
Lab Sample #:	4	**Grid Opening Size:**	0.01124
Client Sample #:	11	**Area Examined:**	0.24728 mm²
GRID BOX:	1477	**Magnification:**	20,000
GRID ID:	IGN	**Accelerating Voltage:**	100 KeV
# Grid Openings:	22	**Analysis Date:**	10/31/02

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	C2	1				√		√	√				
2	H1	2-3											
		4				√	√		√				
3	N2	5									√		
4	T2	6									√		
5	V2	NSD											
6	P2	7-8									√		
7	I2	9									√		
8	D1	NSD											
9	E2	10-11									√		
10	J2	12									√		
11	Q2	13-14									√		
12	Y2	15-16									√		
13	R2	NSD											
14	K2	17-20									√		
15	J2	21									√		
16	Q2	NSD											
17	X2	NSD											
18	V2	NSD											
19	P2	22									√		
20	I3	23									√		
21	H6	24									√		
22	N1	25	√					√		√ Amos			
		26-27									√		
								Cellulose - 1SPR					
								Gypsum - 23 SPR					

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

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):**	3600
Lab Group #:	9045	**Filter Type / Filter Area:**	MCE 385 mm²
Lab Sample #:	5	**Grid Opening Size:**	0.01124
Client Sample #:	12	**Area Examined:**	0.24728 mm²
GRID BOX:	1477	**Magnification:**	20,000
GRID ID:	1PR	**Accelerating Voltage:**	100 KeV
# Grid Openings:	22	**Analysis Date:**	10/31/02

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)
1P 1	C 2	1-2									√		
2	H 1	3									√		
3	N 1	4		√				√	√				
		5-6									√		
		7		√				√	√				
4	T 1	8									√		
5	V 2	9-11									√		
6	P 2	12	√				√		√				
7	I 1	NSD											
8	J 2	13									√		
9	Q 2	NSD											
10	X 1	NSD											
11	R 2	NSD											
12	K 2	NSD											
13	R 2	14				√	√		√				
14	P 2	NSD											
15 1R	X 8	NSD											
16	Q 9	15-16									√		
17	J 2	NSD											
18	E 1	NSD											
19	D 2	17									√		
20	J 2	18									√		
21	P 2	19									√		
22	V 2	NSD											
								Gypsum	- 15		SAR		

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

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_000131642

NYC 9/11 Public Portal Document

TEM Asbestos (air) Count Sheet

Client Name:	ATC	**Volume (liters):**	3600
Lab Group #:	9045	**Filter Type / Filter Area:**	MCE 385 mm²
Lab Sample #:	6	**Grid Opening Size:**	0.01124
Client Sample #:	18	**Area Examined:**	0.24728 mm²
GRID BOX:	1477	**Magnification:**	20,000
GRID ID:	1T2K	**Accelerating Voltage:**	100 KeV
# Grid Openings:	22	**Analysis Date:**	10/31/02

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)
1T	1 X2	1	√				√		√				
		2-9									√		
2	Q2	10-15									√		
3	J2	16-24									√		
4	E2	25		√				√	√				
		26-31									√		
5	Q3	32			√		√		√				
		33-44									√		
6	I1	45-51									√		
7	P2	52-57									√		
8	V2	58-69									√		
9	T2	70-75									√		
10	N2	76		√				√	√				
		77-81									√		
11	H3	82-90									√		
12	T2	91-95									√		
13	N2	96				√		√	√				
		97-101									√		
2K 14	H6	102-107									√		
15	I2	108-116									√		
		117				√		√	√				
		118		√				√	√				
16	P2	119-129									√		
		130				√	√		√				
1T	V2	131-137									√		
18	X2	138-146									√		

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

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):**	3600
Lab Group #:	9045	**Filter Type / Filter Area:**	MCE 385 mm²
Lab Sample #:	6	**Grid Opening Size:**	0.01124
Client Sample #:	18	**Area Examined:**	0.24728 mm²
GRID BOX:	1477	**Magnification:**	20,000
GRID ID:	1T 2K	**Accelerating Voltage:**	100 KeV
# Grid Openings:	22	**Analysis Date:**	11/1/02

Analysis Performed By: RP
ROMAN PEYSAKHOV

cont.:

2K

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)
	~~1K~~	147				✓	✓		✓				
		142				✓	✓		✓				
19	Q2	143-149									✓		
		150		✓			✓		✓				
20	J2	151-162									✓		
21	K1	163-165				✓					✓		
		169				✓		✓	✓				
22	R2	170-181									✓		
		182				✓	✓		✓				
		183				✓	✓		✓				
		TOTAL					6	6					

allulose — 23 STR
Gypsum — 141 STR
Glass — 5 STR

^ Photo No. (from 1 in 5 asbestos containing samples)
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):**	3600
Lab Group #:	9045	**Filter Type / Filter Area:**	MCE 385 mm²
Lab Sample #:	7	**Grid Opening Size:**	0.01124
Client Sample #:	19	**Area Examined:**	0.24728 mm²
GRID BOX:	1477	**Magnification:**	20,000
GRID ID:	2M0	**Accelerating Voltage:**	100 KeV
# Grid Openings:	22	**Analysis Date:**	10/31/02

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	D2	1-15									√		
2	I2	16-22									√		
3	P2	23-33									√		
4	V2	34-39									√		
5	X3	40-52									√		
6	Q2	53-67									√		
7	J2	68-75									√		
8	E2	76-89									√		
9	F2	90-99									√		
		100				√	√		√				
10	K2	101-113									√		
11	R2	114-121									√		
		122	√					√	√				
		123		√				√	√				
		124		√				√	√				
12	T2	125-134									√		
		135	√				√		√				
13	N2	136-147									√		
		148		√				√	√				
		149				√		√	√				
14	H3	150-165									√		
15	I2	166-181									√		
		182				√		√	√				
16	J2	183-189									√		
17	Q2	190-212									√		
18	X2	213-225									√		

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

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):**	3600
Lab Group #:	9045	**Filter Type / Filter Area:**	MCE 385 mm²
Lab Sample #:	7	**Grid Opening Size:**	0.01124
Client Sample #:	19	**Area Examined:**	0.24728 mm²
GRID BOX:	1477	**Magnification:**	20,000
GRID ID:	2M0	**Accelerating Voltage:**	100 KeV
# Grid Openings:	22	**Analysis Date:**	11/1/02

Analysis Performed By: RP
ROMAN PEYSAKHOV

cont

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)
20		226		√				√	√				
19	Y2	227-239									√		
		240		√			√		√				
20	R2	241-251									√		
21	K2	252-263									√		
		264				√	√		√				
22	E1	265-277											
		TOTAL					4	7					

Cellulose – 17 STR
Gypsum – 242 STR
Clays – 7 STR

^ Photo No. (from 1 in 5 asbestos containing samples)
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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MIXED 1 on —

TEM Asbestos (air) Count Sheet

Client Name:	ATC	**Volume (liters):**	3600
Lab Group #:	9045	**Filter Type / Filter Area:**	MCE 385 mm²
Lab Sample #:	8	**Grid Opening Size:**	0.01124
Client Sample #:	20	**Area Examined:**	0.24728 mm²
GRID BOX:	1477	**Magnification:**	20,000
GRID ID:	2QS	**Accelerating Voltage:**	100 KeV
# Grid Openings:	22	**Analysis Date:**	10/31/02

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)
20 1	T2	1-6									√		
2	N2	7-17									√		
3	L3	18-25									√		
4	Q2	26-31									√		
5	I2	32-40									√		
		41	√				√		√				
6	P2	42-46									√		
7	V1	47-53									√		
8	X2	54-59									√		
		60				√	√		√				
		61	√					√	√				
9	Q2	62-72									√		
		73				√	√		√				
10	J2	74-85									√		
		86			√			√	√				
11	E2	87-92									√		
12	K2	93-96									√		
13	R2	97-105									√		
14	Y2	106-110									√		
25 15	X2	111-122									√		
		123				√	√		√				
		124			√			√	√				
16	Q2	125-131									√		
17	J2	132-139	☒								√		
		140	√				√		√				
18	E2	141-145									√		

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

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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MAIN CONT

TEM Asbestos (air) Count Sheet

Client Name:	ATC	**Volume (liters):**	3600
Lab Group #:	9045	**Filter Type / Filter Area:**	MCE 385 mm²
Lab Sample #:	8	**Grid Opening Size:**	0.01124
Client Sample #:	20	**Area Examined:**	0.24728 mm²
GRID BOX:	1477	**Magnification:**	20,000
GRID ID:	2QS	**Accelerating Voltage:**	100 KeV
# Grid Openings:	22	**Analysis Date:**	11/1/02

Analysis Performed By: RP
ROMAN PEYSAKHOV

cont

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)
2S		166	✓				✓		✓		-		
19	Q2	147-154									✓		
20	I3	155-161									✓		
21	P2	162-170									✓		
		171	✓				✓		✓				
		172	✓				✓		✓				
22	V2	173-178									✓		
		TOTAL:					8	3					

cellulose – 5 STR
Gypsum – 153 STR
Glass – 9 STR

^ Photo No. (from 1 in 5 asbestos containing samples)
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 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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Page 1 of —

TEM Asbestos (air) Count Sheet

Client Name:	ATC	**Volume (liters):**	3600
Lab Group #:	9045	**Filter Type / Filter Area:**	MCE 385 mm²
Lab Sample #:	9	**Grid Opening Size:**	0.01124
Client Sample #:	21	**Area Examined:**	0.24728 mm²
GRID BOX:	1477	**Magnification:**	20,000
GRID ID:	32A	**Accelerating Voltage:**	100 KeV
# Grid Openings:	22	**Analysis Date:**	10/31/02

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)
3L 1	Y2	1-5									√		
		6				√	√		√				
		7				√	√		√				
2	R2	8-14									√		
		15	√					√	√				
3	K2	16-22									√		
4	E2	23-26									√		
5	J2	27-31									√		
6	Q2	32				√	√		√				
		33-38									√		
7	Y2	39-47									√		
8	V2	48-52									√		
9	T2	53-57									√		
		58				√	√		√				
		59	√				√		√				
10	N2	60-64									√		
11	H6	65-71									√		
		72				√	√		√				
12	T2	73-79									√		
		80			√			√	√				
13	N2	81-85									√		
3N 14	H3	86-90									√		
15	C2	91-101									√		
X		102				√		√	√				
16	Q2	103-108									√		
17	I2	109-116									√		

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

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):**	3600
Lab Group #:	9045	**Filter Type / Filter Area:**	MCE 385 mm²
Lab Sample #:	9	**Grid Opening Size:**	0.01124
Client Sample #:	21	**Area Examined:**	0.24728 mm²
GRID BOX:	1477	**Magnification:**	20,000
GRID ID:	3LN	**Accelerating Voltage:**	100 KeV
# Grid Openings:	22	**Analysis Date:**	11/1/02

Analysis Performed By: RP
ROMAN PEYSAKHOV

cont

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)
3N													
18	P2	117-125							√		√		
		126				√	√				√		
19	V2	127-133									√		
20	X2	134-141									√		
21	Q2	142-146									√		
22	J2	147-152							√				
		153				√	√		√				
		154	√				√						

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TEM Asbestos (air) Count Sheet

Client Name:	ATC	**Volume (liters):**	3600
Lab Group #:	9045	**Filter Type / Filter Area:**	MCE 385 mm²
Lab Sample #:	10	**Grid Opening Size:**	0.01124
Client Sample #:	22	**Area Examined:**	0.24728 mm²
GRID BOX:	1477	**Magnification:**	20,000
GRID ID:	3PR	**Accelerating Voltage:**	100 KeV
# Grid Openings:	22	**Analysis Date:**	10/31/02

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)
3P 1	Y2	1-4									√		
2	R2	5-8									√		
3	K2	9-17									√		
		18				√		√	√				
4	F2	19-21									√		
5	E2	22-24									√		
6	J2	25-27									√		
		28	√				√		√				
7	Q2	29-35									√		
		36	2				√		√				
8	X2	37-41									√		
9	V2	42-45									√		
10	P2	46-49									√		
		50	√				√		√				
11	I3	51-55									√		
12	F2	56-61									√		
13	K2	62-68									√		
3R 14	R2	69-72									√		
		73		√			√		√				
15	Y2	74-80									√		
16	X2	81-88									√		
17	Q4	89-91									√		
18	J6	92-96									√		
		97		√				√	√				
19	E1	98-102									√		
		103				√	√		√				

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

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):**	3600
Lab Group #:	9045	**Filter Type / Filter Area:**	MCE 385 mm²
Lab Sample #:	10	**Grid Opening Size:**	0.01124
Client Sample #:	22	**Area Examined:**	0.24728 mm²
GRID BOX:	1477	**Magnification:**	20,000
GRID ID:	3PR	**Accelerating Voltage:**	100 KeV
# Grid Openings:	22	**Analysis Date:**	11/1/02

Analysis Performed By: RP
ROMAN PEYSAKHOV

count

3R

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)
20	Q1	104-106									✓		
21	I3	107-112									✓		
		113		✓			✓		✓				
22	P8	114-117											
		TOTAL:					6	2					

Cellulose – 9 SAR
Gypsum – 100 SAR

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

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

TRANSMISSION VERIFICATION REPORT

TIME : 10/29/2002 07:46
NAME :
FAX : 2123533599
TEL :

DATE,TIME	10/29 07:40
FAX NO./NAME	917185953744
DURATION	00:06:37
PAGE(S)	10
RESULT	OK
MODE	STANDARD

VATC ASSOCIATES INC.
104 EAST 25TH STREET
NEW YORK, NEW YORK 10010-2917
(TEL.) 212-353-8280 (FAX) 212-353-8306

F A X T R A N S M I T T A L

DATE:
TO: Penny Theodorellys
COMPANY: NYCDEP
ADDRESS: **59-17 Junction Blvd.**
PHONE NUMBER: **718-595-3657**
FAX NUMBER: **718-595-3744**
FROM: Benjamin M. Sallemi
PHONE NUMBER: 212.353.8280 ext. 295

SUBJECT: 125 Cedar Street – Asbestos Clearance Result

NUMBER OF PAGES TO FOLLOW COVER:

Message:

Penny,

If you have any questions, please feel free to contact me at the telephone number above.

NYC 9/11 Public Portal Document

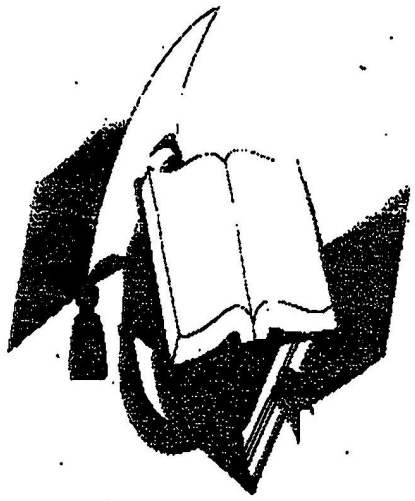
TRANSMISSION VERIFICATION REPORT

TIME : 10/27/2002 09:58
NAME :
FAX : 2123533599
TEL :

DATE,TIME	10/27 09:42
FAX NO./NAME	96374360
DURATION	00:15:58
PAGE(S)	53
RESULT	OK
MODE	STANDARD ECM

Ben's copy

FAX COVER SHEET



To: Chuck Race

Company Name: U.S. EPA

Fax Number: 212-637-4360

Phone Number: 212-637-3459

Number of Pages to Follows 52

Confidential ☐ Rush ☒

From: Milena Lowd

Fax: 212-353-3599 Phone: 212-353-8280 X247

Date 10/29/02 Time: 4:35 PM

Comment: Enclosure

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: Benjamin Sallemi
ATC Associates Inc.
104 East 25th Street
New York NY 10010

Fax: (212) 353-3599 **Phone:** (212) 353-8280

Project: DEP Clean-up ATC Project #: 22906-0002
125 Cedar Street, New York, NY

Received: 10/28/02 1:20:00 AM
ATC Group #: 9035
Analysis Date: 10/29/02

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

Sample	*Volume*	*Area Analyzed*	*Non Asb*	*Asbestos Type(s)*	*# Structures 0.5μ-5*	*5μ*	*Analytical Sensitivity (S/cc)*	*Total Asbestos Concentration (S/mm²)*	*(S/cc)*	*Asbestos Concentration (S > 5μ/cc)*
1 *9035 -1*	3900.00	0.2473	0	None Detected	0	0	0.0004	<4.04	<0.0004	< 0.0004
2 *9035 -2*	3900.00	0.2473	1	None Detected	0	0	0.0004	<4.04	<0.0004	< 0.0004
3 *9035 -3*	3900.00	0.2473	1	None Detected	0	0	0.0004	<4.04	<0.0004	< 0.0004
4 *9035 -4*	3900.00	0.2473	0	None Detected	0	0	0.0004	<4.04	<0.0004	< 0.0004
5 *9035 -5*	3900.00	0.2473	0	None Detected	0	0	0.0004	<4.04	<0.0004	< 0.0004
6 *9035 -6*	3900.00	0.2473	2	None Detected	0	0	0.0004	<4.04	<0.0004	< 0.0004
7 *9035 -7*	3800.00	0.2473	2	None Detected	0	0	0.0004	<4.04	<0.0004	< 0.0004

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_000131655

NYC 9/11 Public Portal Document

Attn: Benjamin Sallemi
ATC Associates Inc.
104 East 25th Street
New York NY 10010
Fax: (212) 353-3599 **Phone:** (212) 353-8280

Received: 10/28/02 1:20:00 AM
ATC Group #: 9035
Analysis Date: 10/29/02

Project: DEP Clean-up ATC Project #: 22906-0002
125 Cedar Street, New York, NY

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

Sample	Volume	Area Analyzed	Non Asb	Asbestos Type(s)	# Structures 0.5µ-5	# Structures 5µ	Analytical Sensitivity (S/cc)	Total Asbestos Concentration (S/mm²)	Total Asbestos Concentration (S/cc)	Asbestos Concentration (S > 5µ/cc)
8 *9035 -8*	3800.00	0.2473	2	None Detected	0	0	0.0004	<4.04	<0.0004	< 0.0004
9 *9035 -9*	3800.00	0.2473	2	None Detected	0	0	0.0004	<4.04	<0.0004	< 0.0004
10 *9035 -10*	3800.00	0.2473	2	None Detected	0	0	0.0004	<4.04	<0.0004	< 0.0004
11 *9035 -11*	3800.00	0.2473	0	None Detected	0	0	0.0004	<4.04	<0.0004	< 0.0004
12 *9035 -12*	3800.00	0.2473	0	None Detected	0	0	0.0004	<4.04	<0.0004	< 0.0004
13 *9035 -13*	3700.00	0.2473	1	None Detected	0	0	0.0004	<4.04	<0.0004	< 0.0004
14 *9035 -14*	3700.00	0.2473	3	None Detected	0	0	0.0004	<4.04	<0.0004	< 0.0004
15 *9035 -15*	3700.00	0.2473	0	None Detected	0	0	0.0004	<4.04	<0.0004	< 0.0004
16 *9035 -16*	3700.00	0.2473	0	None Detected	0	0	0.0004	<4.04	<0.0004	< 0.0004

ROMAN 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.

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NYC-WTC_000131656

NYC 9/11 Public Portal Document

Attn: Benjamin Sallemi
ATC Associates Inc.
104 East 25th Street
New York NY 10010
Fax: (212) 353-3599 **Phone:** (212) 353-8280

Received: 10/28/02 1:20:00 AM
ATC Group #: 9035
Analysis Date: 10/29/02

Project: DEP Clean-up ATC Project #: 22906-0002
125 Cedar Street, New York, NY

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

Sample	*Volume*	*Area Analyzed*	*Non Asb*	*Asbestos Type(s)*	*# Structures 0.5μ-5*	*5μ*	*Analytical Sensitivity (S/cc)*	*Total Asbestos Concentration (S/mm²)*	*(S/cc)*	*Asbestos Concentration (S > 5μ/cc)*
17 *9035 -17*	3700.00	0.2473	1	None Detected	0	0	0.0004	<4.04	<0.0004	< 0.0004
18 *9035 -18*	3700.00	0.2473	0	None Detected	0	0	0.0004	<4.04	<0.0004	< 0.0004
19 *9035 -19*	3700.00	0.2473	0	None Detected	0	0	0.0004	<4.04	<0.0004	< 0.0004
20 *9035 -20*	3700.00	0.2473	0	None Detected	0	0	0.0004	<4.04	<0.0004	< 0.0004
21 *9035 -21*	3700.00	0.2473	0	None Detected	0	0	0.0004	<4.04	<0.0004	< 0.0004
22 *9035 -22*	3700.00	0.2473	0	None Detected	0	0	0.0004	<4.04	<0.0004	< 0.0004
23 *9035 -23*	3700.00	0.2473	1	None Detected	0	0	0.0004	<4.04	<0.0004	< 0.0004
24 *9035 -24*	3600.00	0.2473	0	None Detected	0	0	0.0004	<4.04	<0.0004	< 0.0004
25 *9035 -25*	3600.00	0.2473	2	None Detected	0	0	0.0004	<4.04	<0.0004	< 0.0004

ROMAN PEYSAKHOV
Analyzed by:

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

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NYC-WTC_000131657

NYC 9/11 Public Portal Document

Attn: Benjamin Sallemi
ATC Associates Inc.
104 East 25th Street
New York NY 10010
Fax: (212) 353-3599 **Phone:** (212) 353-8280

Received: 10/28/02 1:20:00 AM
ATC Group #: 9035
Analysis Date: 10/29/02

Project: DEP Clean-up ATC Project #: 22906-0002
125 Cedar Street, New York, NY

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

Sample	*Volume*	*Area Analyzed*	*Non Asb*	*Asbestos Type(s)*	*# Structures 0.5μ-5*	*5μ*	*Analytical Sensitivity (S/cc)*	*Total Asbestos Concentration (S/mm²)*	*(S/cc)*	*Asbestos Concentration (S > 5μ/cc)*
26 *9035 -26*	3600.00	0.2473	3	None Detected	0	0	0.0004	<4.04	<0.0004	< 0.0004
27 *9035 -27*	3600.00	0.2473	1	None Detected	0	0	0.0004	<4.04	<0.0004	< 0.0004
28 *9035 -28*	3600.00	0.2473	1	None Detected	0	0	0.0004	<4.04	<0.0004	< 0.0004
29 *9035 -29*	3600.00	0.2473	2	None Detected	0	0	0.0004	<4.04	<0.0004	< 0.0004
30 *9035 -30*	3600.00	0.2473	0	None Detected	0	0	0.0004	<4.04	<0.0004	< 0.0004
31 *9035 -31*	3600.00	0.2473	1	None Detected	0	0	0.0004	<4.04	<0.0004	< 0.0004
32 *9035 -32*	3600.00	0.2473	0	None Detected	0	0	0.0004	<4.04	<0.0004	< 0.0004
33 *9035 -33*	3600.00	0.2473	1	None Detected	0	0	0.0004	<4.04	<0.0004	< 0.0004
34 *9035 -34*	3600.00	0.2473	5	None Detected	0	0	0.0004	<4.04	<0.0004	< 0.0004

ROMAN PEYSAKHOV
Analyzed by:

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

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NYC-WTC_000131658

NYC 9/11 Public Portal Document

Attn: Benjamin Sallemi
ATC Associates Inc.
104 East 25th Street
New York NY 10010
Fax: (212) 353-3599 **Phone:** (212) 353-8280

Received: 10/28/02 1:20:00 AM
ATC Group #: 9035
Analysis Date: 10/29/02

Project: DEP Clean-up ATC Project #: 22906-0002
125 Cedar Street, New York, NY

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

Sample	*Volume*	*Area Analyzed*	*Non Asb*	*Asbestos Type(s)*	*# Structures 0.5μ-5*	*5μ*	*Analytical Sensitivity (S/cc)*	*Total Asbestos Concentration (S/mm²)*	*(S/cc)*	*Asbestos Concentration (S > 5μ/cc)*
35 *9035 -35*	3600.00	0.2473	33	CHRYSOTILE	1	0	0.0004	4.04	0.0004	< 0.0004
36 *9035 -36*	3600.00	0.2473	6	None Detected	0	0	0.0004	<4.04	<0.0004	< 0.0004
37 *9035 -37*	3600.00	0.2473	16	None Detected	0	0	0.0004	<4.04	<0.0004	< 0.0004
38 *9035 -38*	3600.00	0.2473	30	None Detected	0	0	0.0004	<4.04	<0.0004	< 0.0004
39 *9035 -39*	3600.00	0.2473	8	None Detected	0	0	0.0004	<4.04	<0.0004	< 0.0004
40 *9035 -40*	3600.00	0.2473	2	None Detected	0	0	0.0004	<4.04	<0.0004	< 0.0004
41 *9035 -41*	3600.00	0.2473	4	None Detected	0	0	0.0004	<4.04	<0.0004	< 0.0004
42 *9035 -42*	3610.00	0.2473	2	None Detected	0	0	0.0004	<4.04	<0.0004	< 0.0004
43 *9035 -43*	3620.00	0.2473	0	None Detected	0	0	0.0004	<4.04	<0.0004	< 0.0004

ROMAN 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-WTC_000131659

NYC-WTC_000131660

NYC 9/11 Public Portal Document

ATC ASSOCIATES INC.

9035

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:
DEP	DEP Clean UP	22406-02		UP 22
	2a. Project Address: 125 Cedar St NY NY	3a. Task #	4a. Air Sampler: Tim Ulmestis Lavski	

5. Date:	6. Abatement Location:	7. ☑ PCM (0.8 micron MCE)	8. ☐ TEM (0.45 micron MCE)	9. Type:
10.28.02	Entire	Cassette/Filter Manufacture: MMI Lot #: 01344108	Cassette/Filter Manufacture: X Lot #	a. ☐ Background b. ☐ Pre-Abate c. ☐ Abatement d. ☐ Post-Abate e. ☐ OSHA f. ☐ Environmental g. ☐ Ambient h. ☑ Other Clearance

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	
B-2				Field Blank								0/100	
1				9FL APt 9 North	845	1515	390	10	10	10	3900	2/100	<0.001
2				"	846	1516	390	10	10	10	3900	2/100	<0.001
3				"	848	1518	390	10	10	10	3900	3/100	<0.001
4				"	849	1519	390	10	10	10	3900	2/100	<0.001
5				"	850	1520	390	10	10	10	3900	2/100	<0.001
6				9FL Hallway.	852	1522	390	10	10	10	3900	2/100	<0.001
7				8FL APt 8 South	908	1528	380	10	10	10	3800	3/100	<0.001
8				"	909	1529	380	10	10	10	3800	3/100	<0.001
9				"	910	1530	380	10	10	10	3800	2/100	<0.001
10				"	912	1532	380	10	10	10	3800	1/100	<0.001
11				"	913	1533	380	10	10	10	3800	1/100	<0.001
12				8FL Hallway.	915	1535	380	10	10	10	3800	2/100	<0.001

CHAIN OF CUSTODY

18. Relinquished By:	19. Received By:	20. Date:	21. Time:
I [signature]	E. A. Cuartero	10/28/02	0120
II			
III			

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

22. Lab Name:	23. Date:	24. Time:
a. Analyzed By: E. A. Cuartero	10/28/02	0700
b. QC By:		
c. Lab Batch #: 101800		

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

Analysis Methodology
PCM - NIOSH 7400A
TEM - AHERA

26. ATC Project Manager: B. Sollemi

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

28. Comments:

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

NY-1 (1/01)

NYC-WTC_00013166

NYC 9/11 Public Portal Document

ATC ASSOCIATES INC.

AIR MONITORING DATA AND CHAIN OF CUSTODY FORM

9035

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:
DEP	DEP clean up	22906-02		#1-22
	2a. Project Address: 125 Cedar st NYNY	3a. Task # 01	4a. Air Sampler: Tim Aussdesloustin	

5. Date:	6. Abatement Location:	7. ☑ PCM (0.8 micron MCE)	8. ☐ TEM (0.45 micron MCE)	9. Type:	
10.27.2	Entire	Cassette/Filter Manufacture NMI Lot # 01344108	Cassette/Filter Manufacture X Lot #	a. ☐ Background b. ☐ Pre-Abate	c. ☐ Abatement ✓ d. ☐ Post-Abate e. ☐ OSHA f. ☐ Environmental g. ☐ Ambient h. ☑ Other Clean up

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-5				Field Blank								0/100	
				Field Blank									
13				7FL APT 7 South	930	1540	370	10	10	10	3700	3/100	< 0.001
14				"	931	1541	370	10	10	10	3700	2/100	< 0.001
15				"	932	1542	370	10	10	10	3700	2/100	< 0.001
16				"	934	1543	370	10	10	10	3700	1/100	< 0.001
17				"	935	1545	370	10	10	10	3700	2/100	< 0.001
18				7FL APT 7 North	930	1600	370	10	10	10	3700	2/100	< 0.001
19				"	951	1601	370	10	10	10	3700	2/100	< 0.001
20				"	952	1602	370	10	10	10	3700	2/100	< 0.001
21				"	953	1603	370	10	10	10	3700	2/100	< 0.001
22				"	954	1604	370	10	10	10	3700	2/100	< 0.001
23				7 FL Hallway	956	1606	370	10	10	10	3700	3/100	< 0.001
24				5FL APT 5 South	1012	1612	360	10	10	10	3600	2/100	< 0.001

CHAIN OF CUSTODY

	18. Relinquished By:	19. Received By:	20. Date:	21. Time:
I		E. A. Cuellar	10/25/01	0120
II				
III				

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

22. Lab Name:	23. Date:	24. Time:
a. Analyzed By: E. A. Cuellar	10/25/01	0700
b. QC By:		
c. Lab Batch #: 101800		

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

Analysis Methodology
~~PCM~~ - NIOSH 7400A
TEM - AHERA

26. ATC Project Manager: B. Sallami

27. Result To: B. Sallami
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_000131663

NYC 9/11 Public Portal Document

ATC ASSOCIATES INC.

9035

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:
DEP	DEP Clean up	22906-02		MP-22
	2a. Project Address: 125 Cedar St NY NY	3a. Task # 07	4a. Air Sampler: [illegible]	

5. Date:	6. Abatement Location:	7. ☑ PCM (0.8 micron MCE)	8. ☐ TEM (0.45 micron MCE)	9. Type:
10-27-02	Entire	Cassette/Filter Manufacture: MMI Lot #	Cassette/Filter Manufacture: X Lot #	a. ☐ Background b. ☐ Pre-Abate c. ☐ Abatement d. ☐ Post Abate e. ☐ OSHA f. ☐ Environmental g. ☐ Ambient h. ☒ Other Nyanap

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								0/100	
B-4				Field Blank								0/100	
25				5FL APt 5 South	1013	1613	360	10	10	10	3600	3/100	<0.001
26				"	1014	1614	360	10	10	10	3600	2/100	<0.001
27				"	1015	1615	360	10	10	10	3600	2/100	<0.001
28				"	1016	1616	360	10	10	10	3600	1/100	<0.001
29				5FL APt 5 North	1031	1631	360	10	10	10	3600	2/100	<0.001
30				"	1032	1632	360	10	10	10	3600	2/100	<0.001
31				"	1033	1633	360	10	10	10	3600	3/100	<0.001
32				"	1035	1635	360	10	10	10	3600	3/100	<0.001
33				"	1036	1636	360	10	10	10	3600	1/100	<0.001
34				5 FL Hallway	1038	1638	360	10	10	10	3600	2/100	<0.001
35				3 FL APt 3 North	1053	1653	360	10	10	10	3600	27/100	0.004
36				"	1054	1654	360	10	10	10	3600	20/100	0.003

CHAIN OF CUSTODY

18. Relinquished By:	19. Received By:	20. Date:	21. Time:
I [signature]	E. A. Cuntz	10/28/02	0120
II			
III			

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

22. Lab Name:	23. Date:	24. Time:
a. Analyzed By: E. A. Cuntz	10/28/02	0700
b. QC By:		
c. Lab Batch #: 101800		

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

Analysis Methodology
PCM - NIOSH 7400A
TEM - AHERA

26. ATC Project Manager: B. Sallemi

27. Result To: B. Sallemi
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.

AIR MONITORING DATA AND CHAIN OF CUSTODY FORM

9035

Page 4 of 4

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:
DEP	DEP Cleanup	23906-02		HP 22
	2a. Project Address: 125 Cedar St NY	3a. Task # 02	4a. Air Sampler: Tim Anstislavsky	

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

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									
37				3 FL APt 3 North	1055	1655	360	10	10	10	3600	15/100	0.002
38				"	1056	1656	360	10	10	10	3600	20/100	0.003
39				"	1058	1658	360	10	10	10	3600	9/100	<0.001
40				3FL Hallway	1100	1700	360	10	10	10	3600	8/100	<0.001
41				Stairwell between 7FL & 8FL	1608	2208	360	10	10	10	3600	5/100	<0.001
42				7 FL Laundry room	1609	2210	361	10	10	10	3610	5/100	<0.001
43				6 FL Hallway	1610	2212	362	10	10	10	3620	4/100	<0.001

CHAIN OF CUSTODY

18. Relinquished By:	19. Received By:	20. Date:	21. Time:
[signature]	E. A. Charters	10/28/02	0120
II			
III			

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

22. Lab Name:	23. Date:	24. Time:
a. Analyzed By: E. A. Charters	10/28/02	0700
b. QC By:		
c. Lab Batch #: 101800		

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

Analysis Methodology
PCM - NIOSH 7400A
TEM - AHERA

26. ATC Project Manager: B. Sallemi

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

28. Comments:

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

NY-1 (1/01)

NYC 9/11 Public Portal Document

NYC 9/11 Public Portal Document

TEM Asbestos (air) Count Sheet

Client Name:	ATC	**Volume (liters):**	3900
Lab Group #:	9035	**Filter Type / Filter Area:**	MCE 385 mm²
Lab Sample #:	1	**Grid Opening Size:**	0.01124
Client Sample #:	1	**Area Examined:**	0.24728 mm²
GRID BOX:	1473	**Magnification:**	20,000
GRID ID:	10F	**Accelerating Voltage:**	100 KeV
# Grid Openings:	22	**Analysis Date:**	10/29/02

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)
10D 1	D2	NSD											
2	I2	"											
3	P2	"											
4	V2	"											
5	X2	"											
6	Q2	"											
7	J2	"											
8	E2	"											
9	F2	/											
10	K2	"											
11	R2	"											
12	V2	"											
13	P2	"											
10F 14	I2	"											
15	D2	"											
16	E2	"											
17	J2	"											
18	Q2	"											
19	X2	"											
20	Y2	/											
21	R2	"											
22	K2	"											

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

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):**	3900
Lab Group #:	9035	**Filter Type / Filter Area:**	MCE 385 mm²
Lab Sample #:	2	**Grid Opening Size:**	0.01124
Client Sample #:	2	**Area Examined:**	0.24728 mm²
GRID BOX:	10H3	**Magnification:**	20,000
GRID ID:	10HJ	**Accelerating Voltage:**	100 KeV
# Grid Openings:	22	**Analysis Date:**	10/29/02

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)
10H 1	Q2	NSD											
2	I2	1									√		Cell
3	P2	NSD											
4	V1	"											
5	X2	"											
6	Q2	"											
7	J2	"											
8	E2	"											
9	F2	"											
10	K2	"											
11	R2	"											
12	I2	"											
13	P2	"											
14	V2	"											
10J 15	X2	"											
16	Q2	"											
17	J3	"											
18	K2	"											
19	R3	"											
20	Y2	"											
21	S2	"											
22	L2	"											

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

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):**	3900
Lab Group #:	9035	**Filter Type / Filter Area:**	MCE 385 mm²
Lab Sample #:	3	**Grid Opening Size:**	0.01124
Client Sample #:	3	**Area Examined:**	0.24728 mm²
GRID BOX:	473	**Magnification:**	20,000
GRID ID:	IL/IN	**Accelerating Voltage:**	100 KeV
# Grid Openings:	22	**Analysis Date:**	10/29/02

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	
IL 1	X2	NSD											
2	Q2	"											
3	J2	"											
4	E2	1									√		Cyp.
5	D8	NSD											
6	I4	"											
7	P1	"											
8	V2	"											
9	T1	"											
10	N2	"											
11	H1	"											
12	Q2	"											
13	I2	"											
14	P2	"											
IN 15	V2	"											
16	X3	"											
17	Q2	"											
18	J2	"											
19	E2	"											
20	F2	"											
21	K2	"											
22	R2	"											

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

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):**	3900
Lab Group #:	9035	**Filter Type / Filter Area:**	MCE 385 mm²
Lab Sample #:	5	**Grid Opening Size:**	0.01124
Client Sample #:	5	**Area Examined:**	0.24728 mm²
GRID BOX:	1473	**Magnification:**	20,000
GRID ID:	1T2K	**Accelerating Voltage:**	100 KeV
# Grid Openings:	22	**Analysis Date:**	10/29/02

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	
1T 1	F2	NSD											
2	K1	"											
3	R4	"											
4	Y1	"											
5	X2	"											
6	Q4	"											
7	T2	"											
8	E2	"											
9	Q3	"											
10	I2	"											
11	P1	"											
12	E2	"											
13	J2	"											
2K 14	Q3	"											
15	X2	"											
16	P4	"											
17	I2	"											
18	D2	"											
19	C2	"											
20	H1	"											
21	N1	"											
22	T2	"											

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

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):**	3900
Lab Group #:	9035	**Filter Type / Filter Area:**	MCE 385 mm²
Lab Sample #:	6	**Grid Opening Size:**	0.01124
Client Sample #:	6	**Area Examined:**	0.24728 mm²
GRID BOX:	14T3	**Magnification:**	20,000
GRID ID:	ZMO	**Accelerating Voltage:**	100 KeV
# Grid Openings:	22	**Analysis Date:**	10/29/02

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	I2	1									√		Cell.
3	P2	NSD											
4	V2	"											
5	X2	"											
6	Q2	"											
7	J2	"											
8	E2	"											
9	F3	"											
10	K2	"											
11	R2	"											
12	Q2	"											
13	I2	"											
14	P4	"											
15	V2	2									√		Cell
16	P2	NSD											
17	I2	"											
18	QR	"											
19	E2	"											
20	J2	"											
21	Q2	"											
22	X2	"											

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

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):**	3900
Lab Group #:	9035	**Filter Type / Filter Area:**	MCE 385 mm²
Lab Sample #:	4	**Grid Opening Size:**	0.01124
Client Sample #:	4	**Area Examined:**	0.24728 mm²
GRID BOX:	1473	**Magnification:**	20,000
GRID ID:	1PR	**Accelerating Voltage:**	100 KeV
# Grid Openings:	22	**Analysis Date:**	10/29/02

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)
1P 1	V6	NSD											
2	P1	"											
3	I2	"											
4	Q2	"											
5	E2	"											
6	J2	"											
7	Q2	"											
8	X2	"											
9	Y2	"											
10	R2	"											
11	K2	"											
12	E2	"											
13	J2	"											
1R 14	Q2	"											
15	X2	"											
16	V2	"											
17	P2	"											
18	I2	"											
19	Q1	"											
20	C7	"											
21	H4	"											

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

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):**	3800
Lab Group #:	9035	**Filter Type / Filter Area:**	MCE 385 mm²
Lab Sample #:	8	**Grid Opening Size:**	0.01124
Client Sample #:	8	**Area Examined:**	0.24728 mm²
GRID BOX:	1473	**Magnification:**	20,000
GRID ID:	3LN	**Accelerating Voltage:**	100 KeV
# Grid Openings:	22	**Analysis Date:**	10/29/02

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	"											
3	I2	1-2									√		Coll.
4	D2	NSD											
5	E2	"											
6	J2	"											
7	Q2	"											
8	X2	"											
9	Y2	"											
10	R2	"											
11	K2	"											
12	V4	"											
13	P8	"											
14	I2	"											
15	D3	"											
16	E2	"											
17	J2	"											
18	Q2	"											
19	X2	"											
20	Y2	"											
21	R1	"											
22	K2	"											

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

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 Asbesfos (air) Count Sheet

Client Name:	ATC	**Volume (liters):**	3800
Lab Group #:	9035	**Filter Type / Filter Area:**	MCE 385 mm²
Lab Sample #:	9	**Grid Opening Size:**	0.01124
Client Sample #:	9	**Area Examined:**	0.24728 mm²
GRID BOX:	14T3	**Magnification:**	20,000
GRID ID:	3PR	**Accelerating Voltage:**	100 KeV
# Grid Openings:	22	**Analysis Date:**	10/29/02

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)
3P 1	E2	NSD											
2	J2	1									√		
3	Q2	2									√		
4	X2	NSD											
5	V2	"											
6	P2	"											
7	I2	"											
8	Q2	"											
9	C3	"											
10	H3	"											
11	N2	"											
12	Q2	"											
13	I2	"											
3R 14	P2	"											
15	V2	"											
16	X2	"											
17	Q2	"											
18	J2	"											
19	E2	"											
20	F1	"											
21	K2	"											
22	R2	"											

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

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):**	3800
Lab Group #:	9035	**Filter Type / Filter Area:**	MCE 385 mm²
Lab Sample #:	7	**Grid Opening Size:**	0.01124
Client Sample #:	7	**Area Examined:**	0.24728 mm²
GRID BOX:	1673	**Magnification:**	20,000
GRID ID:	283	**Accelerating Voltage:**	100 KeV
# Grid Openings:	22	**Analysis Date:**	10/29/02

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	Y2	NSD											
2	R2	"											
3	K3	"											
4	F2	"											
5	E2	"											
6	J2	1									√		all
7	Q2	NSD											
8	X2	"											
9	V2	"											
10	P2	"											
11	I2	"											
12	X1	"											
13	Q2	2									√		Cyp.
14	J2	NSD											
15	E2	"											
16	Q2	"											
17	I2	"											
18	P2	"											
19	V2	"											
20	T2	"											
21	N2	"											
22	H6	"											

25 29

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

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):**	3800
Lab Group #:	9035	**Filter Type / Filter Area:**	MCE 385 mm²
Lab Sample #:	10	**Grid Opening Size:**	0.01124
Client Sample #:	10	**Area Examined:**	0.24728 mm²
GRID BOX:	14/73	**Magnification:**	20,000
GRID ID:	3T4K	**Accelerating Voltage:**	100 KeV
# Grid Openings:	22	**Analysis Date:**	10/29/02

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)
3T 1	V2	NSD											
2	P2	"											
3	I2	"											
4	Q2	"											
5	E2	"											
6	J6	1									✓		all.
7	Q2	NSD											
8	X2	"											
9	Y2	"											
10	R2	"											
11	K2	"											
12	E2	2									✓		all
13	J2	NSD											
HK 14	Q2	"											
15	X2	"											
16	V2	"											
17	P2	"											
18	I2	"											
19	Q2	"											
20	C2	"											
21	H6	"											
22	N2	"											

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

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):**	3800
Lab Group #:	9035	**Filter Type / Filter Area:**	MCE 385 mm²
Lab Sample #:	11	**Grid Opening Size:**	0.01124
Client Sample #:	11	**Area Examined:**	0.24728 mm²
GRID BOX:	1473	**Magnification:**	20,000
GRID ID:	4M0	**Accelerating Voltage:**	100 KeV
# Grid Openings:	22	**Analysis Date:**	10/29/02

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)
4M0 1	Q2	NSD											
2	I2	"											
3	P2	"											
4	V2	"											
5	X2	"											
6	Q2	"											
7	J2	"											
8	E1	"											
9	F2	"											
10	K2	"											
11	R2	"											
12	X9	"											
13	Q9	"											
14	J9	"											
40 15	E9	"											
16	D6	"											
17	I2	"											
18	P2	"											
19	Q2	"											
20	N2	"											
21	T2	"											
22	Z2	"											

^ Photo No. (from 1 in 5 asbestos containing samples)
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):**	3800
Lab Group #:	9035	**Filter Type / Filter Area:**	MCE 385 mm²
Lab Sample #:	12	**Grid Opening Size:**	0.01124
Client Sample #:	12	**Area Examined:**	0.24728 mm²
GRID BOX:	1473	**Magnification:**	20,000
GRID ID:	4QS	**Accelerating Voltage:**	100 KeV
# Grid Openings:	22	**Analysis Date:**	10/29/02

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)
40 1	D7	NSD											
2	I6	"											
3	P2	"											
4	V2	"											
5	X2	"											
6	Q2	"											
7	J2	"											
8	E2	"											
9	F2	"											
10	K2	"											
11	R2	"											
12	D2	"											
13	I2	"											
45 14	P2	"											
15	T2	"											
16	E2	"											
17	F2	"											
18	K2	"											
19	C2	"											
20	H1	"											
21	N1	"											
22	M8	"											

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

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):**	3700
Lab Group #:	9035	**Filter Type / Filter Area:**	MCE 385 mm²
Lab Sample #:	13	**Grid Opening Size:**	0.01124
Client Sample #:	13	**Area Examined:**	0.24728 mm²
GRID BOX:	1473	**Magnification:**	20,000
GRID ID:	5LN	**Accelerating Voltage:**	100 KeV
# Grid Openings:	22	**Analysis Date:**	10/29/02

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	Y2	NSD											
2	R2	"											
3	K2	"											
4	F2	"											
5	E2	1									√		all.
6	Q2	NSD											
7	I2	"											
8	P2	"											
9	V2	"											
10	T2	"											
11	N2	"											
12	Q7	"											
13	I6	"											
14	P2	"											
15	V2	"											
16	X2	"											
17	Q22	"											
18	J2	"											
19	F1	"											
20	K1	"											
21	C9	"											
22	N3	"											

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

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):**	3700
Lab Group #:	9035	**Filter Type / Filter Area:**	MCE 385 mm²
Lab Sample #:	14	**Grid Opening Size:**	0.01124
Client Sample #:	14	**Area Examined:**	0.24728 mm²
GRID BOX:	1473	**Magnification:**	20,000
GRID ID:	5PR	**Accelerating Voltage:**	100 KeV
# Grid Openings:	22	**Analysis Date:**	10/29/02

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	J2	"											
3	P2	"											
4	V2	"											
5	X2	"											
6	Q2	1-2									√		cell.
7	X2	NSD											
8	Y2	"											
9	R2	"											
10	K2	"											
11	E2	"											
12	Q2	"											
13	J2	"											
14	P2	"											
15	V2	"											
16	Q2	"											
17	J2	"											
18	E2	"											
19	F2	"											
20	K2	3									√		cell
21	R2	NSD											
22	T1	"											

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

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):**	3700
Lab Group #:	9035	**Filter Type / Filter Area:**	MCE 385 mm²
Lab Sample #:	15	**Grid Opening Size:**	0.01124
Client Sample #:	15	**Area Examined:**	0.24728 mm²
GRID BOX:	1473	**Magnification:**	20,000
GRID ID:	516K	**Accelerating Voltage:**	100 KeV
# Grid Openings:	22	**Analysis Date:**	10/29/02

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	E2	NSD											
2	J3	"											
3	Q2	"											
4	X8	"											
5	V2	"											
6	P2	"											
7	I3	"											
8	C8	"											
9	H9	"											
10	N7	"											
11	T2	"											
K	S6	"											
13	L1	"											
14	K2	"											
15	F2	"											
16	E9	"											
17	B8	"											
18	A9	"											
19	S9	"											
20	K3	"											
21	F8	"											
22	A3	"											

5T

6K

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

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):**	3700
Lab Group #:	9035	**Filter Type / Filter Area:**	MCE 385 mm²
Lab Sample #:	16	**Grid Opening Size:**	0.01124
Client Sample #:	16	**Area Examined:**	0.24728 mm²
GRID BOX:	1473	**Magnification:**	20,000
GRID ID:	G.MC	**Accelerating Voltage:**	100 KeV
# Grid Openings:	22	**Analysis Date:**	10/29/02

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	X2	NSD											
2	Q2	"											
3	J2	"											
4	E2	"											
5	Q2	"											
6	I2	"											
7	P2	"											
8	V2	"											
9	T2	"											
10	N2	"											
11	H1	"											
12	T2	"											
13	N2	"											
14	H6	"											
15	C2	"											
16	Q2	"											
17	I2	"											
18	P2	"											
19	V2	"											
20	X2	"											
21	Q2	"											
22	J2	"											

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

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):**	3700
Lab Group #:	9035	**Filter Type / Filter Area:**	MCE 385 mm²
Lab Sample #:	17	**Grid Opening Size:**	0.01124
Client Sample #:	17	**Area Examined:**	0.24728 mm²
GRID BOX:	1473	**Magnification:**	20,000
GRID ID:	005	**Accelerating Voltage:**	100 KeV
# Grid Openings:	22	**Analysis Date:**	10/29/02

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	J2	//											
4	D2	//											
5	E2	//									√		Glass
6	J2	1											
7	Q2	NSD									√		Glass
8	X2	2											
9	Y2	NSD											
10	R2	//											
11	K2	//											
12	K2	//											
13	R2	//											
14	Y2	//											
15	X2	//											
16	Q2	//											
17	J2	//											
18	E2	//											
19	Q3	//											
20	J4	//											
21	P1	//											
22	T2	//											

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

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):**	3700
Lab Group #:	9035	**Filter Type / Filter Area:**	MCE 385 mm²
Lab Sample #:	18	**Grid Opening Size:**	0.01124
Client Sample #:	18	**Area Examined:**	0.24728 mm²
GRID BOX:	1473	**Magnification:**	20,000
GRID ID:	7LN	**Accelerating Voltage:**	100 KeV
# Grid Openings:	22	**Analysis Date:**	10/29/02

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)
7L 1	Q2	MXD											
2	J1	〃											
3	P2	〃											
4	V2	〃											
5	X2	〃											
6	Q2	〃											
7	J3	〃											
8	E2	〃											
9	F2	〃											
10	K2	〃											
11	R3	〃											
12	T2	〃											
13	N2	〃											
7N 14	H3	〃											
15	C2	〃											
16	Q2	〃											
17	J2	〃											
18	P2	〃											
19	V2	〃											
20	X1	〃											
21	Q2	〃											
22	J2	〃											

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

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):**	3700
Lab Group #:	9035	**Filter Type / Filter Area:**	MCE 385 mm²
Lab Sample #:	19	**Grid Opening Size:**	0.01124
Client Sample #:	19	**Area Examined:**	0.24728 mm²
GRID BOX:	1473	**Magnification:**	20,000
GRID ID:	7PR	**Accelerating Voltage:**	100 KeV
# Grid Openings:	22	**Analysis Date:**	10/29/02

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)
7P 1	V2	NSD											
2	P1	"											
3	J2	"											
4	Q2	"											
5	E2	"											
6	J2	"											
7	Q2	"											
8	V2	"											
9	R1	"											
10	K1	"											
11	E1	"											
12	C2	"											
13	H1	"											
14	N2	"											
7R 15	T2	1									✓		all
16	V2	NSD											
17	P1	"											
18	J1	"											
19	Q1	"											
20	E2	"											
21	J2	"											
22	Q2	"											

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

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):**	3700
Lab Group #:	9035	**Filter Type / Filter Area:**	MCE 385 mm²
Lab Sample #:	20	**Grid Opening Size:**	0.01124
Client Sample #:	20	**Area Examined:**	0.24728 mm²
GRID BOX:	1473	**Magnification:**	20,000
GRID ID:	7TRK	**Accelerating Voltage:**	100 KeV
# Grid Openings:	22	**Analysis Date:**	10/29/02

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	I2	"											
3	P2	"											
4	V2	"											
5	X2	"											
6	Q4	"											
7	J2	"											
8	E2	"											
9	F2	"											
10	K1	"											
11	R2	"											
12	Q2	"											
13	I2	"											
14	P2	"											
15	V1	"											
16	X2	"											
17	J2	"											
18	E1	"											
19	F2	"											
20	K2	"											
21	R3	"											
22	Y2	"											

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

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):**	3700
Lab Group #:	9035	**Filter Type / Filter Area:**	MCE 385 mm²
Lab Sample #:	21	**Grid Opening Size:**	0.01124
Client Sample #:	21	**Area Examined:**	0.24728 mm²
GRID BOX:	1473	**Magnification:**	20,000
GRID ID:	2M0	**Accelerating Voltage:**	100 KeV
# Grid Openings:	22	**Analysis Date:**	10/29/02

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)
2M 1	Q2	NSD											
2	I2	"											
3	P2	"											
4	V1	"											
5	X7	"											
6	Q9	"											
7	J2	"											
8	E2	"											
9	F2	"											
10	K2	"											
11	R2	"											
12	X2	"											
13	Q2	"											
14	J2	"											
20 15	E2	"											
16	D2	"											
17	I2	"											
18	P2	"											
19	U2	"											
20	T3	"											
21	NC	"											
22	H4	"											

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

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):**	3700
Lab Group #:	9035	**Filter Type / Filter Area:**	MCE 385 mm²
Lab Sample #:	22	**Grid Opening Size:**	0.01124
Client Sample #:	22	**Area Examined:**	0.24728 mm²
GRID BOX:	1473	**Magnification:**	20,000
GRID ID:	8Q5	**Accelerating Voltage:**	100 KeV
# Grid Openings:	22	**Analysis Date:**	10/29/02

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	E2	"											
5	Q2	"											
6	I2	"											
7	P2	"											
8	V2	"											
9	T2	"											
10	N2	"											
11	H3	"											
12	C3	"											
13	C2	"											
14	H1	"											
15	N2	"											
16	T2	"											
17	V2	"											
18	P2	"											
19	I3	"											
20	E4	"											
21	J2	"											
22	Q2	"											

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

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):**	3700
Lab Group #:	9035	**Filter Type / Filter Area:**	MCE 385 mm²
Lab Sample #:	23	**Grid Opening Size:**	0.01124
Client Sample #:	23	**Area Examined:**	0.24728 mm²
GRID BOX:	1473	**Magnification:**	20,000
GRID ID:	9L N	**Accelerating Voltage:**	100 KeV
# Grid Openings:	22	**Analysis Date:**	10/29/02

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)
9L 1	Q2	NSD											
2	J2	"											
3	P2	"											
4	V1	"											
5	X2	"											
6	Q3	"											
7	J1	"											
8	E1	"											
9	F2	"											
10	K2	"											
11	R7	"											
12	Q2	"											
13	J2	"											
9N 14	P2	"											
15	V2	1									~		all
16	X2	NSD											
17	Q2	"											
18	J2	"											
19	E3	"											
20	F2	"											
21	K2	"											
22	R2	"											

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

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_000131689

NYC 9/11 Public Portal Document

TEM Asbestos (air) Count Sheet

Client Name:	ATC	**Volume (liters):**	3600
Lab Group #:	9035	**Filter Type / Filter Area:**	MCE 385 mm²
Lab Sample #:	24	**Grid Opening Size:**	0.01124
Client Sample #:	24	**Area Examined:**	0.24728 mm²
GRID BOX:	4T3	**Magnification:**	20,000
GRID ID:	9PR	**Accelerating Voltage:**	100 KeV
# Grid Openings:	22	**Analysis Date:**	10/29/02

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)
9P 1	F2	NSD											
2	K2	"											
3	S3	"											
4	Y2	"											
5	X2	"											
6	Q2	"											
7	J2	"											
8	E2	"											
9	O2	"											
10	I2	"											
11	P2	"											
12	Y2	"											
13	R2	"											
OR 14	K3	"											
15	E3	"											
16	J4	"											
17	I2	"											
18	P2	"											
19	V2	"											
20	T2	"											
21	N2	"											
22	H3	"											

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

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):**	3600
Lab Group #:	9035	**Filter Type / Filter Area:**	MCE 385 mm²
Lab Sample #:	25	**Grid Opening Size:**	0.01124
Client Sample #:	25	**Area Examined:**	0.24728 mm²
GRID BOX:	1473	**Magnification:**	20,000
GRID ID:	9TIDK	**Accelerating Voltage:**	100 KeV
# Grid Openings:	22	**Analysis Date:**	10/29/02

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	T2	NSD											
2	N2	"											
3	H1	"											
4	C2	"											
5	Q2	1									√		Cell
6	E2	NSD											
7	J2	"											
8	Q2	"											
9	X2	"											
10	Y2	"											
11	R2	"											
12	Y2	2									√		Cell
13	R2	NSD											
14	E2	"											
15	J2	"											
16	Q2	"											
17	X2	"											
18	V2	"											
19	P2	"											
20	I2	"											
21	H1	"											
22	N2	"											

^ Photo No. (from 1 in 5 asbestos containing samples)
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):**	3600
Lab Group #:	9035	**Filter Type / Filter Area:**	MCE 385 mm²
Lab Sample #:	26	**Grid Opening Size:**	0.01124
Client Sample #:	26	**Area Examined:**	0.24728 mm²
GRID BOX:	1473	**Magnification:**	20,000
GRID ID:	10MD	**Accelerating Voltage:**	100 KeV
# Grid Openings:	22	**Analysis Date:**	10/29/02

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)
100 1	H3	NSD											
2	N2	"											
3	J2	"									~		all
4	V2	1-2											
5	P2	NSD											
6	I2	"											
7	J2	"											
8	Q2	"											
9	X2	"											
10	Y2	"											
11	R2	"											
12	C2	"											
13	H6	"											
14	N2	"											
100 15	T1	3									✓		all
16	V2	NSD											
17	P2	"											
18	I2	"											
19	Q2	"											
20	E2	"											
21	J2	"											
22	Q9	"											

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

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):**	3600
Lab Group #:	9035	**Filter Type / Filter Area:**	MCE 385 mm²
Lab Sample #:	27	**Grid Opening Size:**	0.01124
Client Sample #:	27	**Area Examined:**	0.24728 mm²
GRID BOX:	1473	**Magnification:**	20,000
GRID ID:	1005	**Accelerating Voltage:**	100 KeV
# Grid Openings:	22	**Analysis Date:**	10/29/02

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	V2	NSD											
2	P1	"											
3	I1	"											
4	Q2	"											
5	E2	"											
6	J2	"											
7	Q2	"											
8	X1	"											
9	Y2	"											
10	R2	"											
11	K2	"											
12	E2	"											
13	J2	"											
14	Q2	"											
15	X2	1									√		Cell
16	V2	NSD											
17	P2	"											
18	I2	"											
19	Q2	"											
20	C2	"											
21	H1	"											
22	N2	"											

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

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):**	3600
Lab Group #:	9035	**Filter Type / Filter Area:**	MCE 385 mm²
Lab Sample #:	28	**Grid Opening Size:**	0.01124
Client Sample #:	28	**Area Examined:**	0.24728 mm²
GRID BOX:	1474	**Magnification:**	20,000
GRID ID:	IAC	**Accelerating Voltage:**	100 KeV
# Grid Openings:	22	**Analysis Date:**	10/29/02

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 1	C2	NSD											
2	H1	"											
3	N1	"											
4	T2	"											
5	V2	"											
6	P2	"											
7	I2	"											
8	J2	"											
9	Q2	"											
10	X2	"											
11	Y2	"											
12	V2	"											
13	P2	"											
1C 14	I2	1									√		all
15	Q2	NSD											
16	E2	"											
17	J2	"											
18	X2	"											
19	Y2	"											
20	R6	"											
21	K2	"											
22	F2	"											

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

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):**	3600
Lab Group #:	9035	**Filter Type / Filter Area:**	MCE 385 mm²
Lab Sample #:	29	**Grid Opening Size:**	0.01124
Client Sample #:	29	**Area Examined:**	0.24728 mm²
GRID BOX:	1474	**Magnification:**	20,000
GRID ID:	1EQ	**Accelerating Voltage:**	100 KeV
# Grid Openings:	22	**Analysis Date:**	10/29/02

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	T2	NSD											
2	N2	"											
3	H3	"											
4	C2	"											
5	D2	1									✓		Gypsum
6	E2	2									✓		Gypsum
7	J2	NSD											
8	Q2	"											
9	X1	"											
10	Y2	"											
11	R2	"											
12	Y2	"											
13	P2	"											
14	K2	"											
1G 15	E2	"											
16	N2	"											
17	I2	"											
18	P2	"											
19	V2	"											
20	T2	"											
21	N2	"											
22	H3	"											

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

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):**	3600
Lab Group #:	9035	**Filter Type / Filter Area:**	MCE 385 mm²
Lab Sample #:	30	**Grid Opening Size:**	0.01124
Client Sample #:	30	**Area Examined:**	0.24728 mm²
GRID BOX:	1474	**Magnification:**	20,000
GRID ID:	1ZZB	**Accelerating Voltage:**	100 KeV
# Grid Openings:	22	**Analysis Date:**	10/29/02

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	E2	NSD											
2	J2	"											
3	Q2	"											
4	X2	"											
5	V2	"											
6	P2	"											
7	I2	"											
8	Q2	"											
9	C3	"											
10	H1	"											
11	N9	"											
12	J1	"											
13	V2	"											
14	P6	"											
15	I7	"											
16	D6	"											
17	E2	"											
18	J2	"											
19	Q2	"											
20	X2	"											
21	V2	"											
22	R2	"											

1I

2B

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

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):**	3600
Lab Group #:	9035	**Filter Type / Filter Area:**	MCE 385 mm²
Lab Sample #:	31	**Grid Opening Size:**	0.01124
Client Sample #:	31	**Area Examined:**	0.24728 mm²
GRID BOX:	1474	**Magnification:**	20,000
GRID ID:	20F	**Accelerating Voltage:**	100 KeV
# Grid Openings:	22	**Analysis Date:**	10/29/02

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	1									√		Cell
2	I1	NSD											
3	P2	"											
4	V2	"											
5	X2	"											
6	Q3	"											
7	J2	"											
8	E2	"											
9	F3	"											
10	K2	"											
11	R2	"											
12	V1	"											
13	P1	"											
14	I1	"											
15	Q1	"											
16	E2	"											
17	J2	"											
18	Q2	"											
19	X1	"											
20	R6	"											
21	K6	"											

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

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):**	3600
Lab Group #:	9035	**Filter Type / Filter Area:**	MCE 385 mm²
Lab Sample #:	32	**Grid Opening Size:**	0.01124
Client Sample #:	32	**Area Examined:**	0.24728 mm²
GRID BOX:	1474	**Magnification:**	20,000
GRID ID:	ZHJ	**Accelerating Voltage:**	100 KeV
# Grid Openings:	22	**Analysis Date:**	10/29/02

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	E2	NSD											
2	J2	〃											
3	Q2	〃											
4	X1	〃											
5	V2	〃											
6	P2	〃											
7	I2	〃											
8	Q2	〃											
9	C2	〃											
10	H6	〃											
11	N2	〃											
12	V6	〃											
13	P6	〃											
14	I6	〃											
15	Q9	〃											
16	E3	〃											
17	J1	〃											
18	Q2	〃											
19	X2	〃											
20	R2	〃											
21	K4	〃											
22	F2	〃											

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

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):**	3600
Lab Group #:	9035	**Filter Type / Filter Area:**	MCE 385 mm²
Lab Sample #:	33	**Grid Opening Size:**	0.01124
Client Sample #:	33	**Area Examined:**	0.24728 mm²
GRID BOX:	1474	**Magnification:**	20,000
GRID ID:	3AC	**Accelerating Voltage:**	100 KeV
# Grid Openings:	22	**Analysis Date:**	10/29/02

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	T1	NSD											
2	N2	"											
3	L3	"											
4	Q2	1									√		Cyp.
5	I2	NSD											
6	P2	"											
7	V2	"											
8	X2	"											
9	Q2	"											
10	J2	"											
11	E2	"											
12	Q2	"											
13	I2	"											
3C 14	P2	"											
15	V2	"											
16	X3	"											
17	Q2	"											
18	J2	"											
19	E2	"											
20	F2	"											
21	K2	"											
22	R2	"											

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

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):**	3600
Lab Group #:	9035	**Filter Type / Filter Area:**	MCE 385 mm²
Lab Sample #:	34	**Grid Opening Size:**	0.01124
Client Sample #:	34	**Area Examined:**	0.24728 mm²
GRID BOX:	1474	**Magnification:**	20,000
GRID ID:	3EQ	**Accelerating Voltage:**	100 KeV
# Grid Openings:	22	**Analysis Date:**	10/29/02

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	C9	NSD									V		Cyp.
2	H9	1											
3	N8	NSD											
4	N3	"											
5	P4	"											
6	I4	"									✓		Cell
7	Q2	2											
8	E2	NSD											
9	F2	3									✓		Cell
10	Q2	NSD											
11	R3	"											
12	X2	"									✓		Cell
13	Q2	4									✓		Cyp.
14	J2	5											
3G 15	E2	NSD											
16	D2	"											
17	I2	"											
18	P2	"											
19	V2	"											
20	T2	"											
21	N3	"											
22	H3	"											

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

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):**	3600
Lab Group #:	9035	**Filter Type / Filter Area:**	MCE 385 mm²
Lab Sample #:	35	**Grid Opening Size:**	0.01124
Client Sample #:	35	**Area Examined:**	0.24728 mm²
GRID BOX:	1474	**Magnification:**	20,000
GRID ID:	3I4B	**Accelerating Voltage:**	100 KeV
# Grid Openings:	22	**Analysis Date:**	10/29/02

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)
3I 1	TZ	NSD									√		Clt
2	NZ	1									√		2 Cyp
3	H6	2-3									√		Cyp
4	C9	4									√		3 Cyp
5	D2	5-7									√		2 Cyp
6	T2	8-9									√		2 Cyp
7	P2	10-11									√		Cyp
8	V2	NSD									√		Cyp
9	X2	12									√		Cyp
10	Q3	13					√	√	√		√		2 Cyp, 1 Clas
11	J3	14									√		Cyp
		15-17											
12	E2	NSD									√		Cyp
13	J2	18									√		Cyp
14	Q3	19									√		2 Cyp
15	V3	20-21									√		3 Cyp
4B 16	P4	22-24									√		Cyp
17	J7	25									√		Cyp
18	Q6	26-28									√		Cyp
19	C8	29									√		Cyp
20	H9	30-31									√		Cyp
21	N1	32									√		Cyp
22	G8	33											

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

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 cr 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):**	3600
Lab Group #:	9035	**Filter Type / Filter Area:**	MCE 385 mm²
Lab Sample #:	36	**Grid Opening Size:**	0.01124
Client Sample #:	36	**Area Examined:**	0.24728 mm²
GRID BOX:	1474	**Magnification:**	20,000
GRID ID:	4DF	**Accelerating Voltage:**	100 KeV
# Grid Openings:	22	**Analysis Date:**	10/29/02

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	1-3									√		3 Cl,K
2	Q2	NSD											
3	J2	11											
4	E2	11											
5	Q2	11											
6	I2	11											
7	P2	11											
8	V1	11											
9	T2	11											
10	N1	11											
11	H4	11											
12	V2	4										√	Cl
13	P2	NSD											
14	I1	5-6											Cl,K
15	Q2	NSD											
16	E3	4											
17	J2	11											
18	Q2	11											
19	X2	11											
20	Y2	11											
21	R2	11											
22	K2	11											

^ Photo No. (from 1 in 5 asbestos containing samples)
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):**	3600
Lab Group #:	9035	**Filter Type / Filter Area:**	MCE 385 mm²
Lab Sample #:	37	**Grid Opening Size:**	0.01124
Client Sample #:	37	**Area Examined:**	0.24728 mm²
GRID BOX:	1474	**Magnification:**	20,000
GRID ID:	4475	**Accelerating Voltage:**	100 KeV
# Grid Openings:	22	**Analysis Date:**	10/29/02

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	Q2	1									√		Cyp
2	I2	NSD											
3	P2	2-3											1 Coll, 1 Cyp
4	V2	NSD											
5	X2	4-5											2 Cyp
6	Q2	NSD											
7	J2	6											Cyp
8	E2	7-8											2 Cyp
9	F2	NSD											
10	K1	9											3 Cyp
11	R2	NSD											
12	E2	10											Cyp
13	J3	NSD											
14	Q2	NSD											
15	X2	11											Cyp
16	V2	12											Cyp
17	R2	13-14											1 Coll, 1 Cyp
18	K2	NSD											
19	F2	NSD											
20	L4	NSD											
21	S4	15											Cyp
22	T2	16											Cyp

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

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):**	3600
Lab Group #:	9035	**Filter Type / Filter Area:**	MCE 385 mm²
Lab Sample #:	38	**Grid Opening Size:**	0.01124
Client Sample #:	38	**Area Examined:**	0.24728 mm²
GRID BOX:	1474	**Magnification:**	20,000
GRID ID:	SAC	**Accelerating Voltage:**	100 KeV
# Grid Openings:	22	**Analysis Date:**	10/29/02

Analysis Performed By: RIP
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	R1	NSD											
3	Y8	1									√		Cryp
4	X2	2-4									√		3 Cryp
5	Q2	5-7									√		3 Cryp
6	J2	NSD											
7	E1	8									√		Cryp
8	Q2	9									√		Cryp
9	I2	NSD											
10	P2	10									√		Cryp
11	N2	11-12									√		2 Cryp
12	N2	13									√		Cryp
13	P1	14									√		Cryp
14	I2	15-16									√		2 Cryp
15	Q2	17-18									√		2 Cryp
16	E2	19-23									√	1000, 4 Cryp	
17	I2	24-26									√	1000, 2 Cryp	
18	Q2	27									√		Cryp
19	X1	28-29											2 Cryp
20	Y2	NSD											
21	R1	NSD											
22	K1	30									√		Cryp

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

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):**	3600
Lab Group #:	9035	**Filter Type / Filter Area:**	MCE 385 mm²
Lab Sample #:	39	**Grid Opening Size:**	0.01124
Client Sample #:	39	**Area Examined:**	0.24728 mm²
GRID BOX:	1474	**Magnification:**	20,000
GRID ID:	5EG	**Accelerating Voltage:**	100 KeV
# Grid Openings:	22	**Analysis Date:**	10/29/02

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)
5E 1	G6	1									√		Cryst
2	M6	NSD											
3	T2	4											
4	N2	4											
5	H6	4											
6	C9	2-4									√	1000, 2 Cryst	
7	D2	NSD											
8	F2	4											
9	P2	4											
10	V2	4											
11	Q3	4											
12	F2	4											
13	K2	5-6									√	2 Cryst	
14	R2	NSD											
5D 15	Y1	7									√		Cryst
16	X2	NSD											
17	Q2	8									√		Cryst
18	I2	NSD											
19	F2	4											
20	D2	4											
21	I2	4											
22	P2	4											

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

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):**	3600
Lab Group #:	9035	**Filter Type / Filter Area:**	MCE 385 mm²
Lab Sample #:	40	**Grid Opening Size:**	0.01124
Client Sample #:	40	**Area Examined:**	0.24728 mm²
GRID BOX:	1474	**Magnification:**	20,000
GRID ID:	5I6S	**Accelerating Voltage:**	100 KeV
# Grid Openings:	22	**Analysis Date:**	10/29/02

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)
5I 1	A2	NSD											
2	I2	"											
3	P2	"											
4	V2	1									√		all
5	X1	NSD											
6	Q3	"											
7	J2	"											
8	E1	"											
9	F3	"											
10	K2	"											
11	R2	"											
12	Y2	"											
13	R2	"											
14	K2	"											
6B 15	E2	"											
16	J2	2									√		Cyp
17	Q4	NSD											
18	X1	"											
19	V2	"											
20	P2	"											
21	J2	"											
22	D7	"											

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

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):**	3600
Lab Group #:	9035	**Filter Type / Filter Area:**	MCE 385 mm²
Lab Sample #:	41	**Grid Opening Size:**	0.01124
Client Sample #:	41	**Area Examined:**	0.24728 mm²
GRID BOX:	1474	**Magnification:**	20,000
GRID ID:	6DF	**Accelerating Voltage:**	100 KeV
# Grid Openings:	22	**Analysis Date:**	10/29/02

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)
6D 1	K2	NSD											
2	R2	"											
3	Y2	1									√		Ca
4	X3	2									√		Ca Si
5	Q2	3-4									√	2	Ca Si
6	S2	NSD											
7	Z1	4											
8	P3	4											
9	V1	4											
10	T2	"											
11	N2	"											
12	E2	"											
13	J2	"											
6F 14	Q4	4											
15	X2	"											
16	V3	"											
17	P2	"											
18	N1	"											
19	T1	"											
20	M9	"											
21	Q8	4											
22	B8	"											

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

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):**	3610
Lab Group #:	9035	**Filter Type / Filter Area:**	MCE 385 mm²
Lab Sample #:	42	**Grid Opening Size:**	0.01124
Client Sample #:	42	**Area Examined:**	0.24728 mm²
GRID BOX:	1474	**Magnification:**	20,000
GRID ID:	6HJ	**Accelerating Voltage:**	100 KeV
# Grid Openings:	22	**Analysis Date:**	10/29/02

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	4											
3	J2	11											
4	E2	11											
5	Q2	11											
6	J2	11											
7	P2	11											
8	V2	11											
9	T2	11											
10	N2	4											
11	H1	4											
12	6	11											
13	R6	11											
14	K6	11											
15	F7	11											
16	J2	4											
17	Q2	11											
18	X2	11											
19	V2	4											
20	P2	11											
21	J2	4											
22	Q2	4											

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

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 >60% 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):**	3620
Lab Group #:	9035	**Filter Type / Filter Area:**	MCE 385 mm²
Lab Sample #:	43	**Grid Opening Size:**	0.01124
Client Sample #:	43	**Area Examined:**	0.24728 mm²
GRID BOX:	1474	**Magnification:**	20,000
GRID ID:	TAC	**Accelerating Voltage:**	100 KeV
# Grid Openings:	22	**Analysis Date:**	10/29/02

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	F2	NSD											
2	K2										√		all
3	R2	NSD											
4	Y2	NSD											
5	X2	"											
6	Q2	"											
7	J2	"											
8	E2	"											
9	D6	"											
10	I2	"											
11	P1	"											
12	V2	"	\										
13	Y2	"											
14	R2	"											
15	K3	"											
16	E2	"											
17	J2	"											
18	Q2	"											
19	X2	2									√		glass
20	V2	NSD											
21	P1	"											
22	I2	"											

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

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.
104 EAST 25TH STREET
NEW YORK, NEW YORK 10010-2917
(TEL.) 212-353-8280 (FAX) 212-353-8306

FAX TRANSMITTAL

DATE:	October 31, 2002
TO:	Penny Theodorellys
COMPANY:	NYCDEP
ADDRESS:	**59-17 Junction Blvd.**
PHONE NUMBER:	**718-595-3657**
FAX NUMBER:	**718-595-3744**
FROM:	Benjamin M. Sallemi
PHONE NUMBER:	212.353.8280 ext. 295
SUBJECT:	125 Cedar Street – Asbestos Clearance Results from Batch 8946 & 8950

NUMBER OF PAGES TO FOLLOW COVER: 9

Message:

Penny,

As discussed, attached is the original common area chain of custody forms depicting those locations where elevated asbestos concentrations were present. Batch # 8950 is also included.

If you have any questions, please feel free to contact me at the telephone number above.

Thanks.

Ben Sallemi

CONFIDENTIALITY NOTICE:

The documents accompanying this transmittal contain confidential and privileged information intended for the exclusive use of the individual named above. If the reader of this message is not the intended recipient, or the employee or agent responsible for delivering it to the intended recipient, you are hereby notified that any dissemination, distribution or copying of the documents accompanying this transmittal is strictly prohibited. If you have received this transmittal in error, please immediately notify us by telephone (at 1.800.725.3282) to arrange for its return. Thank you.

NYC-WTC_000131711

ATC ASSOCIATES INC.

AIR MONITORING DATA AND CHAIN OF CUSTODY FORM

8950

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

PROJECT INFORMATION

1. Client: DEP	2. Project Name: EP Clean-up	3. Project #: 22706-0002	4. Project Monitor: S. Tamyobeer
	2a. Project Address: 125 Cedar St. NY NY	3a. Task #: 00002	4a. Air Sampler: Ruben Acosta
			4c. Rotameter Number: HP-22

5. Date: 10/08/02	6. Abatement Location: Apts. 5th Floor.	7. ☑ PCM (0.8 micron MCE) Cassette/Filter Manufacture: Mydinetrics Lot #: 108.	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 Clearance

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
A01				Field Blank								0/100	
A02				Field Blank								0/100	
AS503		✓		5th Floor Apartments	1630	2230	360	10.0	10.0	10.0	3600	63/100	0.009
AS504		✓		5th Floor Apartment south	1632	2232	360	10.0	10.0	10.0	3600	48/100	0.007
AS505		✓			1634	2234	360	10.0	10.0	10.0	3600	51/100	0.007
AS506		✓			1636	2236	360	10.0	10.0	10.0	3600	46/100	0.006
AS507		✓			1638	2238	360	10.0	10.0	10.0	3600	17/100	0.002
ASN08		✓		5th Floor Apartment North	1647	2247	360	10.0	10.0	10.0	3600	16/100	0.002
ASN09		✓			1650	2250	360	10.0	10.0	10.0	3600	37/100	0.005
ASN10		✓			1651	2251	360	10.0	10.0	10.0	3600	24/100	0.003
ASN11		✓			1654	2254	360	10.0	10.0	10.0	3600	2/100	<0.0031
ASN12		✓			1656	2256	360	10.0	10.0	10.0	3600	5/100	<0.0031
AS13		✓		5th FL. Hallway.	1700	2300	360	10.0	10.0	10.0	3600	4/100	<0.001
AS14		✓		5th FL. ~~Staircase~~ Washr.	1701	2301	360	10.0	10.0	10.0	3600	13/100	0.002

CHAIN OF CUSTODY

	18. Relinquished By:	19. Received By:	20. Date:	21. Time:
I	S. Tamyobeer	A. Elbeni	10/09/02	7am
II	R. Acosta		10/09/02	13:00
III				

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

22. Lab Name: PCM Lab	23. Date:	24. Time:
a. Analyzed By: A. Elbeni	10/09/02	15:00
b. QC By:		
c. Lab Batch #: 101533		

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:
B. Salleni	B. Salleni	
	Beeper/Phone #'s	

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

NY-1 (1/01)

NYC 9/11 Public Portal Document

NYC-WTC_000131712

AIR MONITORING DATA AND CHAIN OF CUSTODY FORM

8950

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:
DEP	DEP Clean-up.	22906-0002	S. Stamyobere	HP-22
	2a. Project Address: 125 Cedar St. NY NY	3a. Task #: 00002	4a. Air Sampler: Ruben Acosta	

5. Date:	6. Abatement Location:	7. ☑ PCM (0.8 micron MCE)	8. ☐ TEM (0.45 micron MCE)	9. Type:
10/08/02	4th FL. Apartments	Cassette/Filter Manufacture: Multimetrics Lot # 108	Cassette/Filter Manufacture Lot #	a. ☐ Background b. ☐ Pre-Abate c. ☐ Abatement d. ☐ Post-Abate e. ☐ OSHA f. ☐ Environmental g. ☐ Ambient h. ☑ Other Clean

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									
A4S15		✓		4th FL. Apartments South	1716	2316	360	10.0	10.0	10.0	3600	9/100	<0.001
A4S16		✓			1718	2318	360	10.0	10.0	10.0	3600	5/100	<0.001
A4S17		✓			1720	2320	360	10.0	10.0	10.0	3600	1/100	<0.001
A4S18		✓			1722	2322	360	10.0	10.0	10.0	3600	8/100	<0.001
A4S19		✓			1724	2324	360	10.0	10.0	10.0	3600	2/100	<0.001
A4N20		✓		4th FL. Apartments North	1726	2326	360	10.0	10.0	10.0	3600	3/100	<0.001
A4N21		✓			1728	2328	360	10.0	10.0	10.0	3600	4/100	<0.001
A4N22		✓			1730	2330	360	10.0	10.0	10.0	3600	6/100	<0.001
A4N23		✓			1732	2332	360	10.0	10.0	10.0	3600	1/100	<0.001
A4N24		✓			1734	2334	360	10.0	10.0	10.0	3600	12/100	0.002
A4~~#~~25		✓		4th FL. Hallway.	1736	2336	360	10.0	10.0	10.0	3600	6/100	<0.001
A4~~#~~26		✓		4th FL. Stairway.	1737	2337	360	10.0	10.0	10.0	3600	9/100	<0.001

CHAIN OF CUSTODY

18. Relinquished By:	19. Received By:	20. Date:	21. Time:
I S. Stamyobere	A. Ellem	10/09/02	7:00
II R. Acosta	TB	10/9/02	13:00
III			

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

22. Lab Name: PCM Lab	23. Date:	24. Time:
a. Analyzed By: A. Ellem	10/09/02	15:00
b. QC By:		
c. Lab Batch #: 101533		

25. Microscope Make/Serial #: Olympus CH2
☐ 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:
B. Salleni	B. Salleni Beeper/Phone #'s	

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

NY-1 (1/01)

NYC 9/11 Public Portal Document

NYC-WTC_000131714

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

8950

1. Client:	2. Project Name:	3. Project #:	4. Project Monitor:	4c. Rotameter Number:
DEP	DEP Clean-up.	22106.0002	S. Stanyobear	HP-22
	2a. Project Address: 145 Cedar St. NY NY.	3a. Task #: 00002	4a. Air Sampler: R. Frost	

5. Date:	6. Abatement Location:	7. ☑ PCM (0.8 micron MCE)	8. ☐ TEM (0.45 micron MCE)	9. Type:
10/08/02	3rd FL. Apartments.	Cassette/Filter Manufacture: Multimetrics Lot #: 108	Cassette/Filter Manufacture: Lot #:	a. ☐ Background b. ☐ Pre-Abate c. ☐ Abatement d. ☐ Post-Abate e. ☐ OSHA f. ☐ Environmental g. ☐ Ambient h. ☑ Other Cleaning

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
A53				Field Blank								9/100	
				Field Blank									
A3527		✓		3rd FL. Apartments South	1812	2412	360	10.0	10.0	10.0	3600	7/100	<0.001
A3528		✓			1814	2414	360	10.0	10.0	10.0	3600	3/100	<0.001
A3529		✓			1816	2416	360	10.0	10.0	10.0	3600	5/100	<0.001
A3530		✓			1818	2418	360	10.0	10.0	10.0	3600	9/100	<0.001
A3531		✓			1820	2420	360	10.0	10.0	10.0	3600	7/100	<0.001
A3N32		✓		3rd FL. Apartments North	1822	2422	360	10.0	10.0	10.0	3600	14/100	0.002
A3N33		✓			1824	2424	360	10.0	10.0	10.0	3600	3/100	<0.001
A3N34		✓			1826	2426	360	10.0	10.0	10.0	3600	5/100	<0.001
A3N35		✓			1828	2428	360	10.0	10.0	10.0	3600	4/100	<0.001
A3N36		✓			1830	2430	360	10.0	10.0	10.0	3600	2/100	<0.001
A3-37		✓		3rd FL. Hallway	1832	2432	360	10.0	10.0	10.0	3600	2/100	<0.001
A3-38		✓		3rd FL. Stairway.	1833	2433	360	10.0	10.0	10.0	3600	3/100	<0.001

CHAIN OF CUSTODY

	18. Relinquished By:	19. Received By:	20. Date:	21. Time:
I	S. Stanyobear	A. Elbert	10/09/02	7:00 am
II	R. Frost	JD	10/9/02	13:00
III				

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

22. Lab Name:	23. Date:	24. Time:
PCM Lab		
a. Analyzed By: A. Elbert	10/09/02	11:00 am
b. QC By:		
c. Lab Batch #: 101534		

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:
B. Salleni	B. Salleni Beeper/Phone #'s	

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

NY-1 (1/01)

NYC 9/11 Public Portal Document

NYC-WTC_000131716

NYC 9/11 Public Portal Document

ATC ASSOCIATES INC.

8950

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:
DEP	DEP Clean-up.	22906-0002	S. Etamyobere	HP-22
	2a. Project Address: 125 Cedar St. NY NY	3a. Task # 00002	4a. Air Sampler: Ruben Hoste	

5. Date:	6. Abatement Location:	7. ☑ PCM (0.8 micron MCE)	8. ☐ TEM (0.45 micron MCE)	9. Type:
10/08/02	2nd FL. Apartments.	Cassette/Filter Manufacture: Multimetrics Lot # 108	Cassette/Filter Manufacture: Lot #	a. ☐ Background b. ☐ Pre-Abate c. ☐ Abatement d. ☐ Post-Abate e. ☐ OSHA f. ☐ Environmental g. ☐ Ambient h. ☑ Other Clean

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
A51				Field Blank								0/100	
A52				Field Blank								0/100	
A2539		✓		2nd FL. Apartments South	1840	2440	360	10.0	10.0	10.0	3600	12/100	0.002
A2540		✓			1842	2442	360	10.0	10.0	10.0	3600	10/100	0.001
A2541		✓			1844	2444	360	10.0	10.0	10.0	3600	4/100	<0.001
A2542		✓			1846	2446	360	10.0	10.0	10.0	3600	8/100	<0.001
A2543		✓			1848	2448	360	10.0	10.0	10.0	3600	7/100	<0.001
A2N44		✓		2nd FL. Apartments North	1850	2450	360	10.0	10.0	10.0	3600	9/100	<0.001
A2N45		✓			1852	2452	360	10.0	10.0	10.0	3600	8/100	<0.001
A2N46		✓			1854	2454	360	10.0	10.0	10.0	3600	9/100	<0.001
A2N47		✓			1856	2456	360	10.0	10.0	10.0	3600	12/100	0.002
A2N48		✓			1858	2458	360	10.0	10.0	10.0	3600	7/100	<0.001
A2-49		✓		2nd FL. Halway.	1900	0100	360	10.0	10.0	10.0	3600	3/100	<0.001
A1-50		✓		1st FL. Halway.	1902	0102	360	10.0	10.0	10.0	3600	6/100	<0.001

CHAIN OF CUSTODY

	18. Relinquished By:	19. Received By:	20. Date:	21. Time:
I	S. Etamyobere	A. Elbeed	10/09/02	7:00 am
II	R. Hoste	SD	10/9/02	13:00
III				

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

22. Lab Name: PCM Lab.	23. Date:	24. Time:
a. Analyzed By: A. Elbeed	10.09.02	11:00 am
b. QC By:		
c. Lab Batch #: 101534		

25. Microscope Make/Serial #: Olympus CH2
☐ 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:
B. Salleni	B. Salleni	
	Beeper/Phone #'s	

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

NY-1 (1/01)

NYC 9/11 Public Portal Document

NYC-WTC_000131718

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

8946

PROJECT INFORMATION

1. Client:	2. Project Name:	3. Project #:	4. Project Monitor:	4c. Rotameter Number:
DEP	DEP Clean-up	15-22306-0002		SP-006
	2a. Project Address: 125 Cedar St. NY	3a. Task #: 00002	4a. Air Sampler: E. Lemanovich	

5. Date:	6. Abatement Location:	7. ☑ PCM (0.8 micron MCE)	8. ☑ TEM (0.45 micron MCE)	9. Type:
10.02.02		Cassette/Filter Manufacture: ____ Lot #: 01283108	Cassette/Filter Manufacture: ____ Lot #: ____	a. ☐ Background b. ☐ Pre-Abate c. ☐ Abatement d. ☐ Post-Abate e. ☐ OSHA f. ☐ Environmental g. ☐ Ambient h. ☑ Other cleaning

DAILY AIR SAMPLE RECORD

Asbestos

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									
A-9N-01		✓		9Floor Apartment north	04:45	11:12	387	10	10	10	3870	7/100	<0.001
A-9N-02		✓		— " —	04:47	11:13	386	10	10	10	3860	8/100	<0.001
A-9N-03		✓		— " —	04:49	11:14	385	10	10	10	3850	7/100	<0.001
A-9N-04		✓		— " —	04:51	11:15	384	10	10	10	3840	6/100	<0.001
A-9N-05		✓		— " —	04:53	11:16	383	10	10	10	3830	6/100	<0.001
A-9S-06		✓		9Floor Apartment South	04:56	11:27	391	10	10	10	3910	8/100	<0.001
A-9S-07		✓		— " —	04:58	11:28	390	10	10	10	3900	10/100	0.002
A-9S-08		✓		— " —	05:00	11:29	389	10	10	10	3890	7/100	<0.001
A-9S-09		✓		— " —	05:02	11:30	388	10	10	10	3880	10/100	0.001
A-9S-10		✓		— " —	05:04	11:31	387	10	10	10	3870	5/100	<0.001
A-8N-11		✓		8Floor Apartment north	05:15	11:42	387	10	10	10	3870	6/100	<0.001
A-8N-12		✓		— " —	05:17	11:43	386	10	10	10	3860	8/100	<0.001

CHAIN OF CUSTODY

18. Relinquished By	19. Received By:	20. Date:	21. Time:
I E. Lemanovich		10.2.2	1750
II		10/9/02	8am
III			

22. Lab Name: ATC	23. Date:	24. Time:
a. Analyzed By:	10/4/02	2200
b. QC By:		
c. Lab Batch #: 101530		

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

25. Microscope Make/Serial #: Olympus CH2/1015
☐ 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:
B Sallemi	B. Sallemi	
	Beeper/Phone #'s:	

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

AIR MONITORING DATA AND CHAIN OF CUSTODY FORM

Page 2 of 5

TURNAROUND TIME

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

PROJECT INFORMATION

8946

1. Client:	2. Project Name	3. Project #	4. Project Monitor:	4c. Rotameter Number:
DEP	DEP clean-up	15-22906-0002		SD-006
	2a Project Address: 125 Cedar St. NY	3a. Task # 00002	4a. Air Sampler: E. Lemanovich	

5. Date:	6. Abatement Location:	7. ☑ PCM (0.8 micron MCE)	8. ☐ TEM (0.45 micron MCE)	9. Type:
10 02 02		Cassette/Filter Manufacture _____ Lot # 01283108	Cassette/Filter Manufacture _____ Lot # _____	a. ☐ Background b. ☐ Pre-Abate c. ☐ Abatement d. ☐ Post-Abate e. ☐ OSHA f. ☐ Environmental g. ☐ Ambient h. ☑ Other cleaning

DAILY AIR SAMPLE RECORD

Asbestos

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									
A-8N-13		✓		8 Floor Apartment North	05:19	11:44	385	10	10	10	3850	5/100	<0.001
A-8N-14		✓		—"—	05:21	11:45	384	10	10	10	3840	5/100	<0.001
A-8N-15		✓		—"—	05:23	11:46	383	10	10	10	3830	6/100	<0.001
A-8S-16		✓		8 Floor Apartment South	05:30	11:55	385	10	10	10	3850	7/100	<0.001
A-8S-17		✓		—"—	05:32	11:56	384	10	10	10	3840	6/100	<0.001
A-8S-18		✓		—"—	05:34	11:57	383	10	10	10	3830	12.5/100	0.002
A-8S-19		✓		—"—	05:36	11:58	382	10	10	10	3820	10/100	<0.001
A-8S-20		✓		—"—	05:38	11:59	381	10	10	10	3810	8/100	<0.001
A-7N-21		✓		7 Floor Apartment North	05:50	12:12	382	10	10	10	3820	15/100	0.002
A-7N-22		✓		—"—	05:52	12:13	381	10	10	10	3810	12/100	0.002
A-7N-23		✓		—"—	05:54	12:14	380	10	10	10	3800	5/100	<0.001
A-7N-24		✓		—"—	05:56	12:15	379	10	10	10	3790	8/100	<0.001

CHAIN OF CUSTODY

18. Relinquished By:	19. Received By:	20. Date:	21. Time:
I E. Lemanovich		10.8.2	
II	FL	10/9/02	8am
III			

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

22. Lab Name: ATC		23. Date:	24. Time:
a. Analyzed By:	[signature]	10/08/02	2200
b. QC By:			
c. Lab Batch #:	101530		

25. Microscope Make/Serial #: OLYMPUS CH2/1025
☐ Nikon Labophot 238913
☐ Nikon Labophot 238917
☐ Nikon Labophot 239079

26. ATC Project Manager: B. Sallemi

27. Result To: B. Sallemi
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_000131720

NYC 9/11 Public Portal Document

NYC-WTC_000131721

NYC-WTC_000131722

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

8946

1. Client: DEP	2. Project Name: DEP Clean-up	3. Project #: 15-22906-0002	4. Project Monitor:	4c. Rotameter Number: SD-006
	2a. Project Address: 125 Cedar St NY	3a. Task #: 00002	4a. Air Sampler: E. Lemanovich	
5. Date: 10.08.02	6. Abatement Location:	7. ☑ PCM (0.8 micron MCE) Cassette/Filter Manufacture _____ Lot # 01283108	8. ☑ TEM (0.45 micron MCE) Cassette/Filter Manufacture _____ Lot # ~~[illegible]~~	9. Type: a. ☐ Background b. ☐ Pre-Abate c. ☐ Abatement d. ☐ Post-Abate e. ☐ OSHA f. ☐ Environmental g. ☐ Ambient h. ☑ Other Cleaning

DAILY AIR SAMPLE RECORD

Asbestos

10. Sample ID 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									
A-7N-25		✓		7 Floor Apartment North	05:58	12:16	378	10	10	10	3780	6/100	<0.001
A-7S-26		✓		7 Floor Apartment South	06:10	12:24	374	10	10	10	3740	7/100	<0.001
A-7S-27		✓		— " —	06:12	12:25	373	10	10	10	3730	5/100	<0.001
A-7S-28		✓		— " —	06:14	12:26	372	10	10	10	3720	5/100	<0.001
A-7S-29		✓		— " —	06:16	12:27	371	10	10	10	3710	10/100	0.001
A-7S-30		✓		— " —	06:18	12:28	370	10	10	10	3700	6/100	<0.001
A-6N-31		✓		6 Floor Apartment North	06:30	12:50	380	10	10	10	3800	9/100	<0.001
A-6N-32		✓		— " —	06:32	12:51	379	10	10	10	3790	14.5/100	0.002
A-6N-33		✓		— " —	06:34	12:52	378	10	10	10	3780	8/100	<0.001
A-6N-34		✓		— " —	06:36	12:53	377	10	10	10	3770	7/100	<0.001
A-6N-35		✓		— " —	06:38	12:54	376	10	10	10	3760	14/100	0.002
A-6S-36		✓		6 Floor Apartment South	06:50	13:15	385	10	10	10	3850	7/100	<0.001

CHAIN OF CUSTODY

18. Relinquished By:	19. Received By:	20. Date:	21. Time:
I E. Lemanovich	[signature]	10.8.2	1750
II	[signature]	10/9/02	8am
III			

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

22. Lab Name: ATC		23. Date:	24. Time:
a. Analyzed By:	[signature]	10/08/02	2200
b. QC By:			
c. Lab Batch #:	101530		

25. Microscope Make/Serial #: OLYMPUS CH2/1005
☐ Nikon Labophot 238913
☐ Nikon Labophot 238917
☐ Nikon Labophot 239079

26. ATC Project Manager: B. Sallemi

27. Result To: B Sallemi
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 9/11 Public Portal Document

NYC-WTC_000131723

ATC ASSOCIATES INC.

AIR MONITORING DATA AND CHAIN OF CUSTODY FORM

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TURNAROUND TIME

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

PROJECT INFORMATION

1. Client: DEP
2. Project Name: DEP Clean - up
2a. Project Address: 125 Cedar St NY
3. Project #: 15-22906-0002
3a. Task #: 00002
4. Project Monitor:
4a. Air Sampler: E. Lemanovich
4c. Rotameter Number: SD-006
5. Date: 10.02.02
6. Abatement Location:
7. ☑ PCM (0.8 micron MCE) Cassette/Filter Manufacture _____ Lot # 01283108
8. ☑ TEM (0.45 micron MCE) Cassette/Filter Manufacture _____ Lot # ~~316~~
9. Type: a. ☐ Background b. ☐ Pre-Abate c. ☐ Abatement d. ☐ Post-Abate e. ☐ OSHA f. ☐ Environmental g. ☐ Ambient h. ☑ Other Cleaning

Asbestos

DAILY AIR SAMPLE RECORD

10. Sample ID 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									
A-69-37		✓		6 Floor Apartment South	06:52	13:16	384	10	10	10	3840	12/100	0.002
A-69-38		✓		— " —	06:54	13:17	383	10	10	10	3830	7/100	<0.001
A-69-39		✓		— " —	06:56	13:18	382	10	10	10	3820	4/100	<0.001
A-69-40		✓		— " —	06:58	13:19	381	10	10	10	3810	5/100	<0.001
A-41		✓		9 Floor. Laundry room	07:05	13:25	380	10	10	10	3800	8/100	<0.001
A-42		✓		Hall Elevator	07:07	13:26	379	10	10	10	3790	16/100	0.002
A-43		✓		8 Floor Hall Elevator	07:10	13:30	380	10	10	10	3800	10/100	0.001
A-44		✓		Staircase between 7 and 8 floor	07:12	13:32	380	10	10	10	3800	14/100	0.002
A-45		✓		7 Floor. Laundry room	07:15	13:35	380	10	10	10	3800	12/100	0.002
A-46		✓		Hall Elevator	07:17	13:36	379	10	10	10	3790	8/100	<0.001
A-47		✓		6 Floor Hall Elevator	07:20	13:40	380	10	10	10	3800	9/100	<0.001
A-48		✓		Staircase. Between 5 and 6 floor	07:22	13:42	380	10	10	10	3800	10/100	0.001

CHAIN OF CUSTODY

18. Relinquished By:	19. Received By:	20. Date:	21. Time:
I E Lemanovich	[signature]	10.8.2	1750
II	[signature]	10/9/02	8am
III			

26. ATC Project Manager: B. Sallemi

27. Result To: B Sallemi

Beeper/Phone #'s _____

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

22. Lab Name: ATC		23. Date:	24. Time:
a. Analyzed By:	[signature]	10/08/02	2200
b. QC By:			
c. Lab Batch #:	101530		

28. Comments:

25. Microscope Make/Serial #: OLYMPUS CH2/1025
☐ 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 9/11 Public Portal Document

ATC ASSOCIATES INC.

AIR MONITORING DATA AND CHAIN OF CUSTODY FORM

Page 5 5

8946

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:
DEP	DEP Clean-up	15-22306.0002		
	2a. Project Address: 125 Cedar St NY	3a. Task # 00002	4a. Air Sampler: E. Lemonovich	

5. Date	6. Abatement Location	7. ☑ PCM (0.8 micron MCE)	8. ☐ TEM (0.45 micron MCE)	9. Type:
10.02.02		Cassette/Filter Manufacture _____ Lot # 01283108	Cassette/Filter Manufacture _____ Lot # _____	a. ☐ Background b. ☐ Pre-Abate c. ☐ Abatement d. ☐ Post-Abate e. ☐ OSHA f. ☐ Environmental g. ☐ Ambient h. ☑ Other cleaning

DAILY AIR SAMPLE RECORD

Asbestos

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
49, 50.				Field Blank								0/100 0/100	
51, 52, 53				Field Blank								0/100 0/100 0/100	

CHAIN OF CUSTODY

18. Relinquished By:	19. Received By:	20. Date:	21. Time:
I E Lemonovich	[signature]	10.8.02	1750
II	[signature]	10/9/02	8 am
III			

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

22. Lab Name: ATC	23. Date:	24. Time:
a. Analyzed By: [signature]	10/08/02	2200
b. QC By:		
c. Lab Batch #: 101530		

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

Analysis Methodology
√ PCM - NIOSH 7400A
TEM - AHERA

26. ATC Project Manager: B Sallemi

27. Result To: B Sallemi
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_000131727