NYC 9/11 Public Portal Document

Settled dust bulk sample chain of custody form and laboratory results

NYC 9/11 Public Portal Document

ATC ASSOCIATES INC.

BATCH NO. 20286

BULK SAMPLE DATA AND CHAIN OF CUSTODY FORM

PROJECT INFORMATION

1. Client: NYC - BOE	2. Project Nam AHERA REINSPECTION	3. Project # 14584-0819	4. Project Manager: Yiannis Efstathiou
	2a. Project Address: 201 warren street, New York, NY 10282		4a. Investigator: Mark Nakhumovich

5. Date:	6. Building Name: P.S.89M	8. Turnaround Time:	9. Comments (Field):
4-19-02	7. Sampling Areas:	☑ STAT ☐ 24 HRS ☐ 72 HRS ☐ OTHER ☐ 6 HRS ☐ 48 HOURS ☐ NORMAL	Analyzed all of them for fiberglass 10. Time in / Time out:

H.A.#	SAMPLE ID NUMBER	MATERIAL DESCRIPTION	LOCATION	FLOOR NUMBER	RESULTS
01	PS89M-4/19/02-Fiberglass-	Settled Dust	Outside of school Ground cover. surface North side Entrance		ND
02	PS89M-4/19/02-Fiberglass-	Settled Dust	↓ South side Entrance		ND
03	PS89M-4/19/02-Fiberglass-	Settled Dust	Playground Ground cover. surface Center		ND
04	PS89M-4/19/02-Fiberglass-	Settled Dust	South side		ND
05	PS89M-4/19/02-Fiberglass-	Settled Dust	North side		ND
06	PS89M-4/19/02-Fiberglass-	Settled Dust	East side		ND
07	PS89M-4/19/02-Fiberglass-	Settled Dust	West side		ND
08	PS89M-4/19/02-Fiberglass-	Settled Dust	Cafeteria floor		ND
09	PS89M-4/19/02-Fiberglass-	Settled Dust	1ST. floor- HALLWAY South of Cafeteria		ND
10	PS89M-4/19/02-Fiberglass-	Settled Dust	↓		ND

CHAIN OF CUSTODY

17. Relinquished By:	18. Date:	19. Time:	20. Received By:	21. Date:	22. Time:
M. Nakhumovich	4-19-02		E. A Cisneros	04/19/02	1900

23. Method of Submittal:	
FIELD	
WALK IN	
US MAIL	
FED-X	
OTHER	

LAB INFORMATION

24. Name and Signature:	25. Date:	26. Time:
24a. Analyzed By: E. A Cisneros	4/19/02	pm
24b. Analyzed By:		
24c. QC By:		

27. Comments (Lab): 40 PCM

Filename P:\USERS\DATA\WP96\WP\FORMS\NY-13.XLS

Form NY-13

CONFIDENTIAL, CITY_21MC100_011771259

SUBJECT TO PROTECTIVE ORDER NO. 2, SEPT. 2008

NYC-WTC_000411332

NYC 9/11 Public Portal Document

ATC ASSOCIATES INC.

BATCH NO. 20286

BULK SAMPLE DATA AND CHAIN OF CUSTODY FORM

PROJECT INFORMATION

1. Client: NYC - BOE	2. Project Nam AHERA REINSPECTION	3. Project # 14584-0819	4. Project Manager: Yiannis Efstathiou
	2a. Project Address: 201 warren street, New York, NY10282		4a. Investigator: Mark Nakhumovich

5. Date:	6. Building Name: P.S.89M	8. Turnaround Time:	9. Comments (Field):
4.19.02	7. Sampling Areas:	☑ STAT ☐ 24 HRS ☐ 72 HRS ☐ OTHER ☐ 6 HRS ☐ 48 HOURS ☐ NORMAL	Analyzed all of them for fiberglass 10. Time in / Time out:

H.A.#	SAMPLE ID NUMBER	MATERIAL DESCRIPTION	LOCATION	FLOOR NUMBER	RESULTS
11	PS89M-4/19/02-Fiberglass-	Settled Dust	2nd floor Hallway floor South side		ND
12	PS89M-4/19/02-Fiberglass-	Settled Dust	Auditorium		ND
13	PS89M-4/19/02-Fiberglass-	Settled Dust	Gymnasium floor		ND
14	PS89M-4/19/02-Fiberglass-	Settled Dust	R 304 floor		ND
15	PS89M-4/19/02-Fiberglass-	Settled Dust	R.402 floor		ND
16	PS89M-4/19/02-Fiberglass-	Settled Dust	R 328 floor		ND
17	PS89M-4/19/02-Fiberglass-	Settled Dust	4th floor HALLWAY South side floor		ND
18	PS89M-4/19/02-Fiberglass-	Settled Dust	R201 floor		ND
19	PS89M-4/19/02-Fiberglass-	Settled Dust	R 202 floor		ND
20	PS89M-4/19/02-Fiberglass-	Settled Dust	R 204 floor		ND

CHAIN OF CUSTODY

17. Relinquished By:	18. Date:	19. Time:	20. Received By:	21. Date:	22. Time:	23. Method of Submittal:	
M. Nakhumovich	4.19.02		E. A. Cantero	04/19/02		FIELD	
						WALK IN	
						US MAIL	
						FED-X	
						OTHER	

LAB INFORMATION

24. Name and Signature:	25. Date:	26. Time:	27. Comments (Lab):
24a. Analyzed By: E. A. Cantero	4/19/02	PM	
24b. Analyzed By:			
24c. QC By:			

Filename: P:\USERS\DATA\WP96\WP\FORMS\NY-13.XLS

Form NY-13

CONFIDENTIAL, CITY_21MC100_011771260

SUBJECT TO PROTECTIVE ORDER NO. 2, SEPT. 2008

NYC-WTC_000411333

ATC ASSOCIATES INC.

BATCH NO. 20286

BULK SAMPLE DATA AND CHAIN OF CUSTODY FORM

PROJECT INFORMATION

1. Client: NYC - BOE	2. Project Name: AHERA REINSPECTION	3. Project # 14584-0819	4. Project Manager: Yiannis Efstathiou
	2a. Project Address: 201 warren street, New York, NY10282		4a. Investigator: Mark Nakhumovich
5. Date: 4·19·02	6. Building Name: P.S.89M	8. Turnaround Time: ☑ STAT ☐ 24 HRS ☐ 72 HRS ☐ OTHER	9. Comments (Field): Analyzed all of them for fiberglass
	7. Sampling Areas:	☐ 6 HRS ☐ 48 HOURS ☐ NORMAL	10. Time in / Time out:

H.A.#	SAMPLE ID NUMBER	MATERIAL DESCRIPTION	LOCATION	FLOOR NUMBER	RESULTS
21	PS89M-4/19/02-Fiberglass-	Settled Dust	R504 floor		ND
22	PS89M-4/19/02-Fiberglass-	Settled Dust	R 226 floor		ND
23	PS89M-4/19/02-Fiberglass-	Settled Dust	R 232 floor		ND
24	PS89M-4/19/02-Fiberglass-	Settled Dust	R 230 floor		ND
25	PS89M-4/19/02-Fiberglass-	Settled Dust	R 219 floor		ND
26	PS89M-4/19/02-Fiberglass-	Settled Dust	R 302 floor		ND
27	PS89M-4/19/02-Fiberglass-	Settled Dust	R 301 floor		ND
28	PS89M-4/19/02-Fiberglass-	Settled Dust	R 316 floor		ND
29	PS89M-4/19/02-Fiberglass-	Settled Dust	R 308 floor		ND
30	PS89M-4/19/02-Fiberglass-	Settled Dust	R 326 floor		ND

CHAIN OF CUSTODY

17. Relinquished By:	18. Date:	19. Time:	20. Received By:	21. Date:	22. Time:
M. Nakhumovich	4·19·02		E. A. Clarkens	04/19/02	1900

23. Method of Submittal:	
FIELD	
WALK IN	
US MAIL	
FED-X	
OTHER	

LAB INFORMATION

24. Name and Signature:	25. Date:	26. Time:
24a. Analyzed By: E. A. Clarkens	4/19/02	PM
24b. Analyzed By:		
24c. QC By:		

27. Comments (Lab):

Filename: P:\USERS\DATA\WP96\WP\FORMS\NY-13.XLS

Form NY-13

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ATC ASSOCIATES INC.

BATCH NO. 20286

BULK SAMPLE DATA AND CHAIN OF CUSTODY FORM

PROJECT INFORMATION

1. Client: NYC - BOE	2. Project Nam AHERA REINSPECTION	3. Project # 14584-0819	4. Project Manager: Yiannis Efstathiou
	2a. Project Address: 201 warren street, New York, NY10282		4a. Investigator: Mark Nakhumovich

5. Date:	6. Building Name: P.S.89M	8. Turnaround Time:	9. Comments (Field):
4·19·02	7. Sampling Areas:	☐ STAT ☐ 24 HRS ☐ 72 HRS ☐ OTHER ☐ 6 HRS ☐ 48 HOURS ☐ NORMAL	Analyzed all of them for fiberglass 10. Time in / Time out:

H.A.#	SAMPLE ID NUMBER	MATERIAL DESCRIPTION	LOCATION	FLOOR NUMBER	RESULTS
31	PS89M-4/19/02-Fiberglass-	Settled Dust	R401 floor		ND
32	PS89M-4/19/02-Fiberglass-	Settled Dust	R404 floor		ND
33	PS89M-4/19/02-Fiberglass-	Settled Dust	R408 floor		ND
34	PS89M-4/19/02-Fiberglass-	Settled Dust	R426 floor		ND
35	PS89M-4/19/02-Fiberglass-	Settled Dust	R428 floor		ND
36	PS89M-4/19/02-Fiberglass-	Settled Dust	R512 floor		ND
37	PS89M-4/19/02-Fiberglass-	Settled Dust	R506 floor		ND
38	PS89M-4/19/02-Fiberglass-	Settled Dust	R526 floor		ND
39	PS89M-4/19/02-Fiberglass-	Settled Dust	R528 floor		ND
40	PS89M-4/19/02-Fiberglass-	Settled Dust	R532 floor		ND

CHAIN OF CUSTODY

17. Relinquished By:	18. Date:	19. Time:	20. Received By:	21. Date:	22. Time:
M. Nakhumovich	4·19·02		E. A. Cimafranca	04/19/02	1900

23. Method of Submittal:	
FIELD	
WALK IN	
US MAIL	
FED-X	
OTHER	

LAB INFORMATION

24. Name and Signature:	25. Date:	26. Time:
24a. Analyzed By: E. A. Cimafranca	04/19/02	
24b. Analyzed By:		
24c. QC By:		

27. Comments (Lab):

CONFIDENTIAL,

CITY_21MC100_011771262

SUBJECT TO PROTECTIVE ORDER NO. 2, SEPT. 2008

NYC-WTC_000411335

NYC-WTC_000411336

SUBJECT TO PROTECTIVE ORDER NO. 2, SEPT. 2008

CONFIDENTIAL,

CITY_21MC100_0117712 63

NYC 9/11 Public Portal Document

ATC ASSOCIATES INC - NEW YORK BULK ASBESTOS ANALYSIS SHEET

104 East 25th Street, 10th Floor . New York, NY 10010 . Phone (212) 353 - 8280, FAX (212) 353 - 3599 or 8306

NVLAP 101187
ELAP 10878
Microscope OLYC BH-2

Client / Project NYC- BOE/PS 89M, 201 Warren St. NY, NY 10282 Project No. 14584.0819

Analysis Date 04/19/02 Analyst E. A. Charters Batch No. 20286

1 Field No. 01	Stereoscopic Exam	PLM Optical Properties	Asbestos Results PLM %	Other Fibrous %	Non Fibrous %	Gravimetric (NOB) Results %
Gravimetric (NOB) Required ☐	Color Brown Texture Gr.	Morphology ___ Extinction ___	___ Chrysotile	___ Cellulose	100 Mineral Filler	___ Organic
Recommended ☐	Homogenity X	RI ∥ ___ RI ⊥ ___	___ Amosite	___ Fiberglass	___ Organic Binders	___ Residue
Gravimetric PREP ☐	# of Layers ___ Asbestos ☐ ☒	DS Color ___ Color,Pleo ___	___ Other	___ Other	___ Vermiculite	___ Carbonate
Gravimetric (NOB) PLM ☐	Color of Layer ___ Detected Yes No	Biref ___ Sign ___			___ Other	___ Other
Gravimetric (NOB) TEM ☐	Comments:			Q.C. ☐		___ Asbestos
POINT COUNT RESULTS ON THE BACK	Method: ☐ ELAP + EPA¹ ☐ ELAP ☐ EPA¹ ☐ OTHER ☒ SCANNING OPTION: ELAP (P.C.) & EPA¹ First 4 preps. Asbestos = 0					

2 Field No. 02	Stereoscopic Exam	PLM Optical Properties	Asbestos Results PLM %	Other Fibrous %	Non Fibrous %	Gravimetric (NOB) Results %
Gravimetric (NOB) Required ☐	Color Brown Texture Gr.	Morphology ___ Extinction ___	___ Chrysotile	___ Cellulose	100 Mineral Filler	___ Organic
Recommended ☐	Homogenity X	RI ∥ ___ RI ⊥ ___	___ Amosite	___ Fiberglass	___ Organic Binders	___ Residue
Gravimetric PREP ☐	# of Layers ___ Asbestos ☐ ☒	DS Color ___ Color,Pleo ___	___ Other	___ Other	___ Vermiculite	___ Carbonate
Gravimetric (NOB) PLM ☐	Color of Layer ___ Detected Yes No	Biref ___ Sign ___			___ Other	___ Other
Gravimetric (NOB) TEM ☐	Comments:			Q.C. ☐		___ Asbestos
POINT COUNT RESULTS ON THE BACK	Method: ☐ ELAP + EPA¹ ☐ ELAP ☐ EPA¹ ☐ OTHER ☒ SCANNING OPTION: ELAP (P.C.) & EPA¹ First 4 preps. Asbestos = 0					

3 Field No. 03	Stereoscopic Exam	PLM Optical Properties	Asbestos Results PLM %	Other Fibrous %	Non Fibrous %	Gravimetric (NOB) Results %
Gravimetric (NOB) Required ☐	Color Brown Texture Gr.	Morphology ___ Extinction ___	___ Chrysotile	___ Cellulose	100 Mineral Filler	___ Organic
Recommended ☐	Homogenity X	RI ∥ ___ RI ⊥ ___	___ Amosite	___ Fiberglass	___ Organic Binders	___ Residue
Gravimetric PREP ☐	# of Layers ___ Asbestos ☐ ☒	DS Color ___ Color,Pleo ___	___ Other	___ Other	___ Vermiculite	___ Carbonate
Gravimetric (NOB) PLM ☐	Color of Layer ___ Detected Yes No	Biref ___ Sign ___			___ Other	___ Other
Gravimetric (NOB) TEM ☐	Comments:			Q.C. ☐		___ Asbestos
POINT COUNT RESULTS ON THE BACK	Method: ☐ ELAP + EPA¹ ☐ ELAP ☐ EPA¹ ☐ OTHER ☒ SCANNING OPTION: ELAP (P.C.) & EPA¹ First 4 preps. Asbestos = 0					

4 Field No. 04	Stereoscopic Exam	PLM Optical Properties	Asbestos Results PLM %	Other Fibrous %	Non Fibrous %	Gravimetric (NOB) Results %
Gravimetric (NOB) Required ☐	Color Brown Texture Gr.	Morphology ___ Extinction ___	___ Chrysotile	___ Cellulose	100 Mineral Filler	___ Organic
Recommended ☐	Homogenity X	RI ∥ ___ RI ⊥ ___	___ Amosite	___ Fiberglass	___ Organic Binders	___ Residue
Gravimetric PREP ☐	# of Layers ___ Asbestos ☐ ☒	DS Color ___ Color,Pleo ___	___ Other	___ Other	___ Vermiculite	___ Carbonate
Gravimetric (NOB) PLM ☐	Color of Layer ___ Detected Yes No	Biref ___ Sign ___			___ Other	___ Other
Gravimetric (NOB) TEM ☐	Comments:			Q.C. ☐		___ Asbestos
POINT COUNT RESULTS ON THE BACK	Method: ☐ ELAP + EPA¹ ☐ ELAP ☐ EPA¹ ☐ OTHER ☒ SCANNING OPTION: ELAP (P.C.) & EPA¹ First 4 preps. Asbestos = 0					

NYC-WTC_000411337

SUBJECT TO PROTECTIVE ORDER NO. 2, SEPT. 2008, CONFIDENTIAL,

CITY_21MC100_011771264

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ATC ASSOCIATES INC - NEW YORK BULK ASBESTOS ANALYSIS SHEET

104 East 25th Street, 10th Floor . New York, NY 10010 . Phone (212) 353 - 8280, FAX (212) 353 - 3599 or 8306

NVLAP 101187
ELAP 10879
Microscope OLYP BH-2

Client / Project NYC-BOE/PS 89M, 201 Warren St. NY, NY 10282 Project No. 14584.0819

Analysis Date 04/19/02 Analyst E. A. Cabrera Batch No. 20286

1 Field No. 05	Stereoscopic Exam	PLM Optical Properties	Asbestos Results PLM %	Other Fibrous %	Non Fibrous %	Gravimetric (NOB) Results %
Gravimetric (NOB) Required ☐	Color Brown Texture Gr.	Morphology ___ Extinction ___	___ Chrysotile	___ Cellulose	100 Mineral Filler	___ Organic
Recommended ☐	Homogenity Y	RI ‖ ___ RI ⊥ ___	___ Amosite	___ Fiberglass	___ Organic Binders	___ Residue
Gravimetric PREP ☐	# of Layers ___ Asbestos ☐ ☒	DS Color ___ Color,Pleo ___	___ Other	___ Other	___ Vermiculite	___ Carbonate
Gravimetric (NOB) PLM ☐	Color of Layer ___ Detected Yes No	Biref ___ Sign ___			___ Other	___ Other
Gravimetric (NOB) TEM ☐	Comments:			Q.C. ☐		___ Asbestos
POINT COUNT RESULTS ON THE BACK	Method: ☐ ELAP + EPA¹ ☐ ELAP ☐ EPA¹ ☐ OTHER ☒ SCANNING OPTION: ELAP (P.C.) & EPA¹ First 4 preps. Asbestos = 0					

2 Field No. 06	Stereoscopic Exam	PLM Optical Properties	Asbestos Results PLM %	Other Fibrous %	Non Fibrous %	Gravimetric (NOB) Results %
Gravimetric (NOB) Required ☐	Color Brown Texture Gr.	Morphology ___ Extinction ___	___ Chrysotile	___ Cellulose	100 Mineral Filler	___ Organic
Recommended ☐	Homogenity Y	RI ‖ ___ RI ⊥ ___	___ Amosite	___ Fiberglass	___ Organic Binders	___ Residue
Gravimetric PREP ☐	# of Layers ___ Asbestos ☐ ☒	DS Color ___ Color,Pleo ___	___ Other	___ Other	___ Vermiculite	___ Carbonate
Gravimetric (NOB) PLM ☐	Color of Layer ___ Detected Yes No	Biref ___ Sign ___			___ Other	___ Other
Gravimetric (NOB) TEM ☐	Comments:			Q.C. ☐		___ Asbestos
POINT COUNT RESULTS ON THE BACK	Method: ☐ ELAP + EPA¹ ☐ ELAP ☐ EPA¹ ☐ OTHER ☒ SCANNING OPTION: ELAP (P.C.) & EPA¹ First 4 preps. Asbestos = 0					

3 Field No. 07	Stereoscopic Exam	PLM Optical Properties	Asbestos Results PLM %	Other Fibrous %	Non Fibrous %	Gravimetric (NOB) Results %
Gravimetric (NOB) Required ☐	Color Brown Texture Gr.	Morphology ___ Extinction ___	___ Chrysotile	___ Cellulose	100 Mineral Filler	___ Organic
Recommended ☐	Homogenity Y	RI ‖ ___ RI ⊥ ___	___ Amosite	___ Fiberglass	Tr Organic Binders	___ Residue
Gravimetric PREP ☐	# of Layers ___ Asbestos ☐ ☒	DS Color ___ Color,Pleo ___	___ Other	___ Other	___ Vermiculite	___ Carbonate
Gravimetric (NOB) PLM ☐	Color of Layer ___ Detected Yes No	Biref ___ Sign ___			___ Other	___ Other
Gravimetric (NOB) TEM ☐	Comments:			Q.C. ☐		___ Asbestos
POINT COUNT RESULTS ON THE BACK	Method: ☐ ELAP + EPA¹ ☐ ELAP ☐ EPA¹ ☐ OTHER ☒ SCANNING OPTION: ELAP (P.C.) & EPA¹ First 4 preps. Asbestos = 0					

4 Field No. 08	Stereoscopic Exam	PLM Optical Properties	Asbestos Results PLM %	Other Fibrous %	Non Fibrous %	Gravimetric (NOB) Results %
Gravimetric (NOB) Required ☐	Color Brown Texture Gr.	Morphology ___ Extinction ___	___ Chrysotile	___ Cellulose	95 Mineral Filler	___ Organic
Recommended ☐	Homogenity Y	RI ‖ ___ RI ⊥ ___	___ Amosite	___ Fiberglass	5 Organic Binders	___ Residue
Gravimetric PREP ☐	# of Layers ___ Asbestos ☐ ☒	DS Color ___ Color,Pleo ___	___ Other	___ Other	___ Vermiculite	___ Carbonate
Gravimetric (NOB) PLM ☐	Color of Layer ___ Detected Yes No	Biref ___ Sign ___			___ Other	___ Other
Gravimetric (NOB) TEM ☐	Comments:			Q.C. ☐		___ Asbestos
POINT COUNT RESULTS ON THE BACK	Method: ☐ ELAP + EPA¹ ☐ ELAP ☐ EPA¹ ☐ OTHER ☒ SCANNING OPTION: ELAP (P.C.) & EPA¹ First 4 preps. Asbestos = 0					

ATC ASSOCIATES INC - NEW YORK BULK ASBESTOS ANALYSIS SHEET

104 East 25th Street, 10th Floor . New York, NY 10010 . Phone (212) 353 - 8280, FAX (212) 353 - 3599 or 8306

NVLAP 101187
ELAP 10879
Microscope OLYP BH-7

Client / Project NYC-BOE/PS 89M, 201 Warren St. NY, NY 10282 Project No. 14584-0819

Analysis Date 04/19/02 Analyst E. A. Cuarterds Batch No. 20286

1 Field No. 09	Stereoscopic Exam	PLM Optical Properties	Asbestos Results PLM %	Other Fibrous %	Non Fibrous %	Gravimetric (NOB) Results %
Gravimetric (NOB) Required ☐	Color Brown Texture F	Morphology ___ Extinction ___	Chrysotile	15 Cellulose	80 Mineral Filler	Organic
Recommended ☐	Homogenity Y	RI I ___ RI II ___	Amosite	Fiberglass	5 Organic Binders	Residue
Gravimetric PREP ☐	# of Layers ___ Asbestos ☐ ☒	DS Color ___ Color,Pleo ___	Other	Other	Vermiculite	Carbonate
Gravimetric (NOB) PLM ☐	Color of Layer ___ Detected Yes No	Biref ___ Sign ___			Other	Other
Gravimetric (NOB) TEM ☐	Comments:			Q.C. ☐		Asbestos
POINT COUNT RESULTS ON THE BACK	Method: ☐ ELAP + EPA¹ ☐ ELAP ☐ EPA¹ ☐ OTHER ☒ SCANNING OPTION: ELAP (P.C.) & EPA¹ First 4 preps Asbestos = 0					

2 Field No. 10	Stereoscopic Exam	PLM Optical Properties	Asbestos Results PLM %	Other Fibrous %	Non Fibrous %	Gravimetric (NOB) Results %
Gravimetric (NOB) Required ☐	Color Brown Texture F	Morphology ___ Extinction ___	Chrysotile	50 Cellulose	10 Mineral Filler	Organic
Recommended ☐	Homogenity Y	RI I ___ RI II ___	Amosite	Fiberglass	Organic Binders	Residue
Gravimetric PREP ☐	# of Layers ___ Asbestos ☐ ☒	DS Color ___ Color,Pleo ___	Other	40 Other	Vermiculite	Carbonate
Gravimetric (NOB) PLM ☐	Color of Layer ___ Detected Yes No	Biref ___ Sign ___		Synthetic & Hair	Other	Other
Gravimetric (NOB) TEM ☐	Comments:			Q.C. ☒ ND [illegible]		Asbestos
POINT COUNT RESULTS ON THE BACK	Method: ☐ ELAP + EPA¹ ☐ ELAP ☐ EPA¹ ☐ OTHER ☒ SCANNING OPTION: ELAP (P.C.) & EPA¹ First 4 preps Asbestos = 0					

3 Field No. 11	Stereoscopic Exam	PLM Optical Properties	Asbestos Results PLM %	Other Fibrous %	Non Fibrous %	Gravimetric (NOB) Results %
Gravimetric (NOB) Required ☐	Color Brown Texture F	Morphology ___ Extinction ___	Chrysotile	55 Cellulose	10 Mineral Filler	Organic
Recommended ☐	Homogenity Y	RI I ___ RI II ___	Amosite	Fiberglass	Organic Binders	Residue
Gravimetric PREP ☐	# of Layers ___ Asbestos ☐ ☒	DS Color ___ Color,Pleo ___	Other	35 Other	Vermiculite	Carbonate
Gravimetric (NOB) PLM ☐	Color of Layer ___ Detected Yes No	Biref ___ Sign ___		Synthetic	Other	Other
Gravimetric (NOB) TEM ☐	Comments:			Q.C. ☐		Asbestos
POINT COUNT RESULTS ON THE BACK	Method: ☐ ELAP + EPA¹ ☐ ELAP ☐ EPA¹ ☐ OTHER ☒ SCANNING OPTION: ELAP (P.C.) & EPA¹ First 4 preps. Asbestos = 0					

4 Field No. 12	Stereoscopic Exam	PLM Optical Properties	Asbestos Results PLM %	Other Fibrous %	Non Fibrous %	Gravimetric (NOB) Results %
Gravimetric (NOB) Required ☐	Color Brown Texture F	Morphology ___ Extinction ___	Chrysotile	50 Cellulose	10 Mineral Filler	Organic
Recommended ☐	Homogenity Y	RI I ___ RI II ___	Amosite	Fiberglass	Organic Binders	Residue
Gravimetric PREP ☐	# of Layers ___ Asbestos ☐ ☒	DS Color ___ Color,Pleo ___	Other	40 Other	Vermiculite	Carbonate
Gravimetric (NOB) PLM ☐	Color of Layer ___ Detected Yes No	Biref ___ Sign ___		Synthetic & Hair	Other	Other
Gravimetric (NOB) TEM ☐	Comments:			Q.C. ☐		Asbestos
POINT COUNT RESULTS ON THE BACK	Method: ☐ ELAP + EPA¹ ☐ ELAP ☐ EPA¹ ☐ OTHER ☒ SCANNING OPTION: ELAP (P.C.) & EPA¹ First 4 preps. Asbestos = 0					

CONFIDENTIAL,
SUBJECT TO PROTECTIVE ORDER NO. 2, SEPT. 2008
CITY_21MC100_011771265
NYC-WTC_000411338

NYC-WTC_000411339

SUBJECT TO PROTECTIVE ORDER NO. 2, SEPT. 2008, CONFIDENTIAL,

CITY_21MC100_011771266

NYC 9/11 Public Portal Document

ATC ASSOCIATES INC - NEW YORK BULK ASBESTOS ANALYSIS SHEET

104 East 25th Street, 10th Floor · New York, NY 10010 · Phone (212) 353 - 8280, FAX (212) 353 - 3599 or 8306

NVLAP 101187
ELAP 10879
Microscope OLYP BH-2

Client / Project NYC-BOE/PS 89M, 201 Warren St. NY, NY 10282 Project No. 14184.0819

Analysis Date 04/19/02 Analyst E. A Canizeros Batch No. 20286

	Field No.	Stereoscopic Exam	PLM Optical Properties	Asbestos Results PLM %	Other Fibrous %	Non Fibrous %	Gravimetric (NOB) Results %
1	13	Color Brown; Texture F; Homogenity Y; # of Layers ___; Asbestos ☐ ☒; Color of Layer ___; Detected Yes No; Comments:	Morphology ___; Extinction ___; RI ∥ ___; RI ⊥ ___; DS Color ___; Color,Pleo ___; Biref ___; Sign ___	Chrysotile / Amosite / Other	50 Cellulose; ___ Fiberglass; 35 Other Synthetic	15 Mineral Filler; ___ Organic Binders; ___ Vermiculite; ___ Other	___ Organic; ___ Residue; ___ Carbonate; ___ Other; ___ Asbestos
2	14	Color Brown; Texture F; Homogenity Y; # of Layers ___; Asbestos ☐ ☒; Color of Layer ___; Detected Yes No; Comments:	Morphology ___; Extinction ___; RI ∥ ___; RI ⊥ ___; DS Color ___; Color,Pleo ___; Biref ___; Sign ___	Chrysotile / Amosite / Other	50 Cellulose; ___ Fiberglass; 40 Other Synthetic & Hair	10 Mineral Filler; ___ Organic Binders; ___ Vermiculite; ___ Other	___ Organic; ___ Residue; ___ Carbonate; ___ Other; ___ Asbestos
3	15	Color Brown; Texture F; Homogenity Y; # of Layers ___; Asbestos ☐ ☒; Color of Layer ___; Detected Yes No; Comments:	Morphology ___; Extinction ___; RI ∥ ___; RI ⊥ ___; DS Color ___; Color,Pleo ___; Biref ___; Sign ___	Chrysotile / Amosite / Other	40 Cellulose; ___ Fiberglass; 50 Other Synthetic & Hair	10 Mineral Filler; ___ Organic Binders; ___ Vermiculite; ___ Other	___ Organic; ___ Residue; ___ Carbonate; ___ Other; ___ Asbestos
4	16	Color Brown/White; Texture F/F; Homogenity N; # of Layers ___; Asbestos ☐ ☒; Color of Layer ___; Detected Yes No; Comments:	Morphology ___; Extinction ___; RI ∥ ___; RI ⊥ ___; DS Color ___; Color,Pleo ___; Biref ___; Sign ___	Chrysotile / Amosite / Other	60 Cellulose; ___ Fiberglass; 30 Other Synthetic & Hair	10 Mineral Filler; ___ Organic Binders; ___ Vermiculite; ___ Other	___ Organic; ___ Residue; ___ Carbonate; ___ Other; ___ Asbestos

Gravimetric (NOB) Required ☐ Recommended ☐ Gravimetric PREP ☐ Gravimetric (NOB) PLM ☐ Gravimetric (NOB) TEM ☐

POINT COUNT RESULTS ON THE BACK

O.C. ☐

Method: ☐ ELAP + EPA¹ ☐ ELAP ☐ EPA¹ ☐ OTHER ☒ SCANNING OPTION: ELAP (P.C.) & EPA¹ First 4 preps. Asbestos = 0

NYC-WTC_000411340

SUBJECT TO PROTECTIVE ORDER NO. 2, SEPT. 2008

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NVLAP 101187
ELAP 10879
Microscope (N YP BIL-2

Client / Project NYC-BOE/PS 89M, 201 WARREN ST. NY, NY 10282 Project No. 14584.0819

Analysis Date 04/19/02 Analyst E. A. CANTEROS Batch No. 20286

1 Field No. 17	Stereoscopic Exam	PLM Optical Properties	Asbestos Results PLM %	Other Fibrous %	Non Fibrous %	Gravimetric (NOB) Results %
Gravimetric (NOB) Required ☐	Color Brown Texture F	Morphology ___ Extinction ___	___ Chrysotile	45 Cellulose	10 Mineral Filler	___ Organic
Recommended ☐	Homogenity Y	RI I ___ RI II ___	___ Amosite	___ Fiberglass	___ Organic Binders	___ Residue
Gravimetric PREP ☐	# of Layers ___ Asbestos ☐ ☒	DS Color ___ Color,Pleo ___	___ Other	45 Other Synthetic Fiber	___ Vermiculite	___ Carbonate
Gravimetric (NOB) PLM ☐	Color of Layer ___ Detected Yes No	Bref ___ Sign ___			___ Other	___ Other
Gravimetric (NOB) TEM ☐	Comments:					___ Asbestos
POINT COUNT RESULTS ON THE BACK	Method: ☐ ELAP + EPA¹ ☐ ELAP ☐ EPA¹ ☐ OTHER ☒ SCANNING OPTION I: ELAP (P.C.) & EPA¹ First 4 preps. Asbestos = 0			O.C. ☐		

2 Field No. 18	Stereoscopic Exam	PLM Optical Properties	Asbestos Results PLM %	Other Fibrous %	Non Fibrous %	Gravimetric (NOB) Results %
Gravimetric (NOB) Required ☐	Color Brown Texture F	Morphology ___ Extinction ___	___ Chrysotile	60 Cellulose	15 Mineral Filler	___ Organic
Recommended ☐	Homogenity Y	RI I ___ RI II ___	___ Amosite	___ Fiberglass	___ Organic Binders	___ Residue
Gravimetric PREP ☐	# of Layers ___ Asbestos ☐ ☒	DS Color ___ Color,Pleo ___	___ Other	25 Other Synthetic	___ Vermiculite	___ Carbonate
Gravimetric (NOB) PLM ☐	Color of Layer ___ Detected Yes No	Bref ___ Sign ___			___ Other	___ Other
Gravimetric (NOB) TEM ☐	Comments:					___ Asbestos
POINT COUNT RESULTS ON THE BACK	Method: ☐ ELAP + EPA¹ ☐ ELAP ☐ EPA¹ ☐ OTHER ☒ SCANNING OPTION I: ELAP (P.C.) & EPA¹ First 4 preps. Asbestos = 0			O.C. ☐		

3 Field No. 19	Stereoscopic Exam	PLM Optical Properties	Asbestos Results PLM %	Other Fibrous %	Non Fibrous %	Gravimetric (NOB) Results %
Gravimetric (NOB) Required ☐	Color Brown Texture F	Morphology ___ Extinction ___	___ Chrysotile	20 Cellulose	10 Mineral Filler	___ Organic
Recommended ☐	Homogenity Y	RI I ___ RI II ___	___ Amosite	___ Fiberglass	___ Organic Binders	___ Residue
Gravimetric PREP ☐	# of Layers ___ Asbestos ☐ ☒	DS Color ___ Color,Pleo ___	___ Other	20 Other Synthetic	___ Vermiculite	___ Carbonate
Gravimetric (NOB) PLM ☐	Color of Layer ___ Detected Yes No	Bref ___ Sign ___			___ Other	___ Other
Gravimetric (NOB) TEM ☐	Comments:					___ Asbestos
POINT COUNT RESULTS ON THE BACK	Method: ☐ ELAP + EPA¹ ☐ ELAP ☐ EPA¹ ☐ OTHER ☒ SCANNING OPTION I: ELAP (P.C.) & EPA¹ First 4 preps. Asbestos = 0			O.C. ☐		

4 Field No. 20	Stereoscopic Exam	PLM Optical Properties	Asbestos Results PLM %	Other Fibrous %	Non Fibrous %	Gravimetric (NOB) Results %
Gravimetric (NOB) Required ☐	Color Brown Texture F	Morphology ___ Extinction ___	___ Chrysotile	40 Cellulose	10 Mineral Filler	___ Organic
Recommended ☐	Homogenity Y	RI I ___ RI II ___	___ Amosite	___ Fiberglass	___ Organic Binders	___ Residue
Gravimetric PREP ☐	# of Layers ___ Asbestos ☐ ☒	DS Color ___ Color,Pleo ___	___ Other	50 Other Synthetic Fiber	___ Vermiculite	___ Carbonate
Gravimetric (NOB) PLM ☐	Color of Layer ___ Detected Yes No	Bref ___ Sign ___			___ Other	___ Other
Gravimetric (NOB) TEM ☐	Comments:					___ Asbestos
POINT COUNT RESULTS ON THE BACK	Method: ☐ ELAP + EPA¹ ☐ ELAP ☐ EPA¹ ☐ OTHER ☒ SCANNING OPTION I: ELAP (P.C.) & EPA¹ First 4 preps. Asbestos = 0			O.C. ☒ ND /fc		

NYC-WTC_000411341

SUBJECT TO PROTECTIVE ORDER NO. 2, SEPT. 2008

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NVLAP 101187
ELAP 10879
Microscope OLYP BH-2

Client / Project NYC - BOE / PS 89M, 201 Warren St NY, NY 10282 Project No. 14584.0819

Analysis Date 04/19/02 Analyst E. A. Cuartero Batch No. 20286

1 Field No. 21	Stereoscopic Exam	PLM Optical Properties	Asbestos Results PLM %	Other Fibrous %	Non Fibrous %	Gravimetric (NOB) Results %
Gravimetric (NOB) Required ☐	Color Brown Texture F	Morphology ___ Extinction ___	___ Chrysotile	15 Cellulose	80 Mineral Filler	___ Organic
Recommended ☐	Homogenity Y	RI ∥ ___ RI ⊥ ___	___ Amosite	___ Fiberglass	5 Organic Binders	___ Residue
Gravimetric PREP ☐	# of Layers ___ Asbestos ☐ ☒	DS Color ___ Color,Pleo ___	___ Other	___ Other	___ Vermiculite	___ Carbonate
Gravimetric (NOB) PLM ☐	Color of Layer ___ Detected Yes No	Biref ___ Sign ___			___ Other	___ Other
Gravimetric (NOB) TEM ☐	Comments:			Q.C. ☐		___ Asbestos
POINT COUNT RESULTS ON THE BACK	Method: ☐ ELAP + EPA¹ ☐ ELAP ☐ EPA¹ ☐ OTHER ☒ SCANNING OPTION: ELAP (P.C.) & EPA¹ First 4 preps. Asbestos = 0					

2 Field No. 22	Stereoscopic Exam	PLM Optical Properties	Asbestos Results PLM %	Other Fibrous %	Non Fibrous %	Gravimetric (NOB) Results %
Gravimetric (NOB) Required ☐	Color Brown Texture F	Morphology ___ Extinction ___	___ Chrysotile	45 Cellulose	15 Mineral Filler	___ Organic
Recommended ☐	Homogenity Y	RI ∥ ___ RI ⊥ ___	___ Amosite	___ Fiberglass	___ Organic Binders	___ Residue
Gravimetric PREP ☐	# of Layers ___ Asbestos ☐ ☒	DS Color ___ Color,Pleo ___	___ Other	40 Other	___ Vermiculite	___ Carbonate
Gravimetric (NOB) PLM ☐	Color of Layer ___ Detected Yes No	Biref ___ Sign ___		Synthetic Hair	___ Other	___ Other
Gravimetric (NOB) TEM ☐	Comments:			Q.C. ☐		___ Asbestos
POINT COUNT RESULTS ON THE BACK	Method: ☐ ELAP + EPA¹ ☐ ELAP ☐ EPA¹ ☐ OTHER ☒ SCANNING OPTION: ELAP (P.C.) & EPA¹ First 4 preps. Asbestos = 0					

3 Field No. 23	Stereoscopic Exam	PLM Optical Properties	Asbestos Results PLM %	Other Fibrous %	Non Fibrous %	Gravimetric (NOB) Results %
Gravimetric (NOB) Required ☐	Color Brown Texture F	Morphology ___ Extinction ___	___ Chrysotile	45 Cellulose	10 Mineral Filler	___ Organic
Recommended ☐	Homogenity Y	RI ∥ ___ RI ⊥ ___	___ Amosite	___ Fiberglass	___ Organic Binders	___ Residue
Gravimetric PREP ☐	# of Layers ___ Asbestos ☐ ☒	DS Color ___ Color,Pleo ___	___ Other	45 Other	___ Vermiculite	___ Carbonate
Gravimetric (NOB) PLM ☐	Color of Layer ___ Detected Yes No	Biref ___ Sign ___		Synthetic Hair	___ Other	___ Other
Gravimetric (NOB) TEM ☐	Comments:			Q.C. ☐		___ Asbestos
POINT COUNT RESULTS ON THE BACK	Method: ☐ ELAP + EPA¹ ☐ ELAP ☐ EPA¹ ☐ OTHER ☒ SCANNING OPTION: ELAP (P.C.) & EPA¹ First 4 preps. Asbestos = 0					

4 Field No. 24	Stereoscopic Exam	PLM Optical Properties	Asbestos Results PLM %	Other Fibrous %	Non Fibrous %	Gravimetric (NOB) Results %
Gravimetric (NOB) Required ☐	Color Brown Texture F	Morphology ___ Extinction ___	___ Chrysotile	40 Cellulose	20 Mineral Filler	___ Organic
Recommended ☐	Homogenity Y	RI ∥ ___ RI ⊥ ___	___ Amosite	___ Fiberglass	___ Organic Binders	___ Residue
Gravimetric PREP ☐	# of Layers ___ Asbestos ☐ ☒	DS Color ___ Color,Pleo ___	___ Other	40 Other	___ Vermiculite	___ Carbonate
Gravimetric (NOB) PLM ☐	Color of Layer ___ Detected Yes No	Biref ___ Sign ___		Synthetic Hair	___ Other	___ Other
Gravimetric (NOB) TEM ☐	Comments:			Q.C. ☐		___ Asbestos
POINT COUNT RESULTS ON THE BACK	Method: ☐ ELAP + EPA¹ ☐ ELAP ☐ EPA¹ ☐ OTHER ☒ SCANNING OPTION: ELAP (P.C.) & EPA¹ First 4 preps. Asbestos = 0					

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NVLAP 101187
ELAP 10879
Microscope OLYP BH-2

Client / Project NYC- BOE/PS 89M, 201 Warren St NY, NY 10282 Project No. 14784.0819

Analysis Date 04/19/02 Analyst E. A. Canters Batch No. 20286

1 Field No. 25	Stereoscopic Exam	PLM Optical Properties	Asbestos Results PLM %	Other Fibrous %	Non Fibrous %	Gravimetric (NOB) Results %
Gravimetric (NOB) Required ☐	Color Brown Texture F	Morphology ___ Extinction ___	___ Chrysotile	15 Cellulose	30 Mineral Filler	___ Organic
Recommended ☐	Homogenity Y	RI] ___ RI] ___	___ Amosite	___ Fiberglass	15 Organic Binders	___ Residue
Gravimetric PREP ☐	# of Layers ___ Asbestos ☐ ☒	DS Color ___ Color,Pleo ___	___ Other	20 Other	___ Vermiculite	___ Carbonate
Gravimetric (NOB) PLM ☐	Color of Layer ___ Detected Yes No	Biref ___ Sign ___		Synthetic	___ Other	___ Other
Gravimetric (NOB) TEM ☐	Comments:			Q.C. ☐		___ Asbestos
POINT COUNT RESULTS ON THE BACK	Method: ☐ ELAP + EPA¹ ☐ ELAP ☐ EPA¹ ☐ OTHER ☒ SCANNING OPTION: ELAP (P.C.) & EPA¹ First 4 preps. Asbestos = 0					

2 Field No. 26	Stereoscopic Exam	PLM Optical Properties	Asbestos Results PLM %	Other Fibrous %	Non Fibrous %	Gravimetric (NOB) Results %
Gravimetric (NOB) Required ☐	Color Brown Texture F	Morphology ___ Extinction ___	___ Chrysotile	5 Cellulose	70 Mineral Filler	___ Organic
Recommended ☐	Homogenity Y	RI] ___ RI] ___	___ Amosite	___ Fiberglass	15 Organic Binders	___ Residue
Gravimetric PREP ☐	# of Layers ___ Asbestos ☐ ☒	DS Color ___ Color,Pleo ___	___ Other	10 Other	___ Vermiculite	___ Carbonate
Gravimetric (NOB) PLM ☐	Color of Layer ___ Detected Yes No	Biref ___ Sign ___		Synthetic	___ Other	___ Other
Gravimetric (NOB) TEM ☐	Comments:			Q.C. ☐		___ Asbestos
POINT COUNT RESULTS ON THE BACK	Method: ☐ ELAP + EPA¹ ☐ ELAP ☐ EPA¹ ☐ OTHER ☒ SCANNING OPTION: ELAP (P.C.) & EPA¹ First 4 preps. Asbestos = 0					

3 Field No. 27	Stereoscopic Exam	PLM Optical Properties	Asbestos Results PLM %	Other Fibrous %	Non Fibrous %	Gravimetric (NOB) Results %
Gravimetric (NOB) Required ☐	Color Brown Texture F	Morphology ___ Extinction ___	___ Chrysotile	5 Cellulose	85 Mineral Filler	___ Organic
Recommended ☐	Homogenity Y	RI] ___ RI] ___	___ Amosite	___ Fiberglass	10 Organic Binders	___ Residue
Gravimetric PREP ☐	# of Layers ___ Asbestos ☐ ☒	DS Color ___ Color,Pleo ___	___ Other	___ Other	___ Vermiculite	___ Carbonate
Gravimetric (NOB) PLM ☐	Color of Layer ___ Detected Yes No	Biref ___ Sign ___			___ Other	___ Other
Gravimetric (NOB) TEM ☐	Comments:			Q.C. ☐		___ Asbestos
POINT COUNT RESULTS ON THE BACK	Method: ☐ ELAP + EPA¹ ☐ ELAP ☐ EPA¹ ☐ OTHER ☒ SCANNING OPTION: ELAP (P.C.) & EPA¹ First 4 preps. Asbestos = 0					

4 Field No. 28	Stereoscopic Exam	PLM Optical Properties	Asbestos Results PLM %	Other Fibrous %	Non Fibrous %	Gravimetric (NOB) Results %
Gravimetric (NOB) Required ☐	Color Brown Texture F	Morphology ___ Extinction ___	___ Chrysotile	20 Cellulose	50 Mineral Filler	___ Organic
Recommended ☐	Homogenity Y	RI] ___ RI] ___	___ Amosite	___ Fiberglass	30 Organic Binders	___ Residue
Gravimetric PREP ☐	# of Layers ___ Asbestos ☐ ☒	DS Color ___ Color,Pleo ___	___ Other	___ Other	___ Vermiculite	___ Carbonate
Gravimetric (NOB) PLM ☐	Color of Layer ___ Detected Yes No	Biref ___ Sign ___			___ Other	___ Other
Gravimetric (NOB) TEM ☐	Comments:			Q.C. ☐		___ Asbestos
POINT COUNT RESULTS ON THE BACK	Method: ☐ ELAP + EPA¹ ☐ ELAP ☐ EPA¹ ☐ OTHER ☒ SCANNING OPTION: ELAP (P.C.) & EPA¹ First 4 preps. Asbestos = 0					

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NVLAP 101187
ELAP 10878
Microscope OLYP-BH-2

Client / Project NYC- BOE/PS 89M, 201 Warren St. NY, NY 10282 Project No. 14784.0819

Analysis Date 04/19/02 Analyst E. A Guardiol Batch No. 20286

1 Field No. 29	Stereoscopic Exam	PLM Optical Properties	Asbestos Results PLM %	Other Fibrous %	Non Fibrous %	Gravimetric (NOB) Results %
Gravimetric (NOB) Required ☐	Color Brown Texture F	Morphology ___ Extinction ___	___ Chrysotile	20 Cellulose	60 Mineral Filler	___ Organic
Recommended ☐	Homogenity Y	RI ∥ ___ RI ⊥ ___	___ Amosite	___ Fiberglass	20 Organic Binders	___ Residue
Gravimetric PREP ☐	# of Layers ___ Asbestos ☐ ☒	DS Color ___ Color,Pleo ___	___ Other	___ Other	___ Vermiculite	___ Carbonate
Gravimetric (NOB) PLM ☐	Color of Layer ___ Detected Yes No	Biref ___ Sign ___			___ Other	___ Other
Gravimetric (NOB) TEM ☐	Comments:			Q.C. ☐		___ Asbestos
POINT COUNT RESULTS ON THE BACK	Method: ☐ ELAP + EPA¹ ☐ ELAP ☐ EPA¹ ☐ OTHER ☒ SCANNING OPTION : ELAP (P.C.) & EPA¹ First 4 preps. Asbestos = 0					

2 Field No. 30	Stereoscopic Exam	PLM Optical Properties	Asbestos Results PLM %	Other Fibrous %	Non Fibrous %	Gravimetric (NOB) Results %
Gravimetric (NOB) Required ☐	Color Brown Texture F	Morphology ___ Extinction ___	___ Chrysotile	30 Cellulose	45 Mineral Filler	___ Organic
Recommended ☐	Homogenity Y	RI ∥ ___ RI ⊥ ___	___ Amosite	___ Fiberglass	25 Organic Binders	___ Residue
Gravimetric PREP ☐	# of Layers ___ Asbestos ☐ ☒	DS Color ___ Color,Pleo ___	___ Other	___ Other	___ Vermiculite	___ Carbonate
Gravimetric (NOB) PLM ☐	Color of Layer ___ Detected Yes No	Biref ___ Sign ___			___ Other	___ Other
Gravimetric (NOB) TEM ☐	Comments:			Q.C. ☐		___ Asbestos
POINT COUNT RESULTS ON THE BACK	Method: ☐ ELAP + EPA¹ ☐ ELAP ☐ EPA¹ ☐ OTHER ☒ SCANNING OPTION : ELAP (P.C.) & EPA¹ First 4 preps. Asbestos = 0					

3 Field No. 31	Stereoscopic Exam	PLM Optical Properties	Asbestos Results PLM %	Other Fibrous %	Non Fibrous %	Gravimetric (NOB) Results %
Gravimetric (NOB) Required ☐	Color Brown Texture F	Morphology ___ Extinction ___	___ Chrysotile	10 Cellulose	70 Mineral Filler	___ Organic
Recommended ☐	Homogenity Y	RI ∥ ___ RI ⊥ ___	___ Amosite	___ Fiberglass	20 Organic Binders	___ Residue
Gravimetric PREP ☐	# of Layers ___ Asbestos ☐ ☒	DS Color ___ Color,Pleo ___	___ Other	___ Other	___ Vermiculite	___ Carbonate
Gravimetric (NOB) PLM ☐	Color of Layer ___ Detected Yes No	Biref ___ Sign ___			___ Other	___ Other
Gravimetric (NOB) TEM ☐	Comments:			Q.C. ☐		___ Asbestos
POINT COUNT RESULTS ON THE BACK	Method: ☐ ELAP + EPA¹ ☐ ELAP ☐ EPA¹ ☐ OTHER ☒ SCANNING OPTION : ELAP (P.C.) & EPA¹ First 4 preps. Asbestos = 0					

4 Field No. 32	Stereoscopic Exam	PLM Optical Properties	Asbestos Results PLM %	Other Fibrous %	Non Fibrous %	Gravimetric (NOB) Results %
Gravimetric (NOB) Required ☐	Color Brown Texture F	Morphology ___ Extinction ___	___ Chrysotile	___ Cellulose	60 Mineral Filler	___ Organic
Recommended ☐	Homogenity Y	RI ∥ ___ RI ⊥ ___	___ Amosite	___ Fiberglass	10 Organic Binders	___ Residue
Gravimetric PREP ☐	# of Layers ___ Asbestos ☐ ☒	DS Color ___ Color,Pleo ___	___ Other	30 Other Sy. fiber/Hair	___ Vermiculite	___ Carbonate
Gravimetric (NOB) PLM ☐	Color of Layer ___ Detected Yes No	Biref ___ Sign ___			___ Other	___ Other
Gravimetric (NOB) TEM ☐	Comments:			Q.C. ☐		___ Asbestos
POINT COUNT RESULTS ON THE BACK	Method: ☐ ELAP + EPA¹ ☐ ELAP ☐ EPA¹ ☐ OTHER ☒ SCANNING OPTION : ELAP (P.C.) & EPA¹ First 4 preps. Asbestos = 0					

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NVLAP 101187
ELAP 10879
Microscope OLYP BH2

Client / Project NYC BOE/PS 89M, 201 Warren St NY, NY 10282 Project No. 14184.0819

Analysis Date 04/19/02 Analyst E. A. Cabrera Batch No. 20286

1 Field No. 33	Stereoscopic Exam	PLM Optical Properties	Asbestos Results PLM %	Other Fibrous %	Non Fibrous %	Gravimetric (NOB) Results %
Gravimetric (NOB) Required ☐ Recommended ☐ Gravimetric PREP ☐ Gravimetric (NOB) PLM ☐ Gravimetric (NOB) TEM ☐ POINT COUNT RESULTS ON THE BACK	Color Brown Texture F Homogenity Y # of Layers ____ Asbestos ☐ ☑ Color of Layer ____ Detected Yes No Comments:	Morphology ____ Extinction ____ RI ∥ ____ RI ⊥ ____ DS Color ____ Color,Pleo ____ Biref ____ Sign ____	____ Chrysotile ____ Amosite ____ Other	20 Cellulose ____ Fiberglass 40 Other Synthetic / Hair Q.C. ☐	35 Mineral Filler 5 Organic Binders ____ Vermiculite ____ Other	____ Organic ____ Residue ____ Carbonate ____ Other ____ Asbestos
	Method: ☐ ELAP + EPA¹ ☐ ELAP ☐ EPA¹ ☐ OTHER	SCANNING OPTION: ELAP (P.C.) & EPA¹	First 4 preps. Asbestos = 0			

2 Field No. 34	Stereoscopic Exam	PLM Optical Properties	Asbestos Results PLM %	Other Fibrous %	Non Fibrous %	Gravimetric (NOB) Results %
Gravimetric (NOB) Required ☐ Recommended ☐ Gravimetric PREP ☐ Gravimetric (NOB) PLM ☐ Gravimetric (NOB) TEM ☐ POINT COUNT RESULTS ON THE BACK	Color Brown Texture F Homogenity Y # of Layers ____ Asbestos ☐ ☑ Color of Layer ____ Detected Yes No Comments:	Morphology ____ Extinction ____ RI ∥ ____ RI ⊥ ____ DS Color ____ Color,Pleo ____ Biref ____ Sign ____	____ Chrysotile ____ Amosite ____ Other	40 Cellulose ____ Fiberglass 10 Other Synthetic Q.C. ☐	50 Mineral Filler ____ Organic Binders ____ Vermiculite ____ Other	____ Organic ____ Residue ____ Carbonate ____ Other ____ Asbestos
	Method: ☐ ELAP + EPA¹ ☐ ELAP ☐ EPA¹ ☐ OTHER	☑ SCANNING OPTION: ELAP (P.C.) & EPA¹	First 4 preps. Asbestos = 0			

3 Field No. 35	Stereoscopic Exam	PLM Optical Properties	Asbestos Results PLM %	Other Fibrous %	Non Fibrous %	Gravimetric (NOB) Results %
Gravimetric (NOB) Required ☐ Recommended ☐ Gravimetric PREP ☐ Gravimetric (NOB) PLM ☐ Gravimetric (NOB) TEM ☐ POINT COUNT RESULTS ON THE BACK	Color Brown Texture F Homogenity Y # of Layers ____ Asbestos ☐ ☑ Color of Layer ____ Detected Yes No Comments:	Morphology ____ Extinction ____ RI ∥ ____ RI ⊥ ____ DS Color ____ Color,Pleo ____ Biref ____ Sign ____	____ Chrysotile ____ Amosite ____ Other	40 Cellulose ____ Fiberglass ____ Other Q.C. ☐	55 Mineral Filler 5 Organic Binders ____ Vermiculite ____ Other	____ Organic ____ Residue ____ Carbonate ____ Other ____ Asbestos
	Method: ☐ ELAP + EPA¹ ☐ ELAP ☐ EPA¹ ☐ OTHER	☑ SCANNING OPTION: ELAP (P.C.) & EPA¹	First 4 preps. Asbestos = 0			

4 Field No. 36	Stereoscopic Exam	PLM Optical Properties	Asbestos Results PLM %	Other Fibrous %	Non Fibrous %	Gravimetric (NOB) Results %
Gravimetric (NOB) Required ☐ Recommended ☐ Gravimetric PREP ☐ Gravimetric (NOB) PLM ☐ Gravimetric (NOB) TEM ☐ POINT COUNT RESULTS ON THE BACK	Color Brown Texture F Homogenity Y # of Layers ____ Asbestos ☐ ☑ Color of Layer ____ Detected Yes No Comments:	Morphology ____ Extinction ____ RI ∥ ____ RI ⊥ ____ DS Color ____ Color,Pleo ____ Biref ____ Sign ____	____ Chrysotile ____ Amosite ____ Other	30 Cellulose ____ Fiberglass 20 Other Hair Q.C. ☐	50 Mineral Filler ____ Organic Binders ____ Vermiculite ____ Other	____ Organic ____ Residue ____ Carbonate ____ Other ____ Asbestos
	Method: ☐ ELAP + EPA¹ ☐ ELAP ☐ EPA¹ ☐ OTHER	☑ SCANNING OPTION: ELAP (P.C.) & EPA¹	First 4 preps. Asbestos = 0			

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NVLAP 101187
ELAP 10879
Microscope OLYP BH 2

Client / Project NYC-BOE/PS 89M, 201 WARREN ST. NY, NY 10282 Project No. 14584.0819

Analysis Date 04/19/02 Analyst E. A. CANTERAS Batch No. 20286

1 Field No. 37	Stereoscopic Exam	PLM Optical Properties	Asbestos Results PLM %	Other Fibrous %	Non Fibrous %	Gravimetric (NOB) Results %
Gravimetric (NOB) Required ☐	Color Brown Texture F	Morphology ___ Extinction ___	___ Chrysotile	10 Cellulose	80 Mineral Filler	___ Organic
Recommended ☐	Homogenity Y	RI ∥ ___ RI ⊥ ___	___ Amosite	___ Fiberglass	___ Organic Binders	___ Residue
Gravimetric PREP ☐	# of Layers ___ Asbestos ☐ ☒	DS Color ___ Color,Pleo ___	___ Other	10 Other	___ Vermiculite	___ Carbonate
Gravimetric (NOB) PLM ☐	Color of Layer ___ Detected Yes No	Biref ___ Sign ___		Hair	___ Other	___ Other
Gravimetric (NOB) TEM ☐	Comments:			Q.C. ☐		___ Asbestos
POINT COUNT RESULTS ON THE BACK	Method: ☐ ELAP + EPA¹ ☐ ELAP ☐ EPA¹ ☐ OTHER ☒ SCANNING OPTION: ELAP (P.C.) & EPA¹ First 4 preps. Asbestos = 0					

2 Field No. 38	Stereoscopic Exam	PLM Optical Properties	Asbestos Results PLM %	Other Fibrous %	Non Fibrous %	Gravimetric (NOB) Results %
Gravimetric (NOB) Required ☐	Color Brown Texture F	Morphology ___ Extinction ___	___ Chrysotile	10 Cellulose	70 Mineral Filler	___ Organic
Recommended ☐	Homogenity Y	RI ∥ ___ RI ⊥ ___	___ Amosite	___ Fiberglass	10 Organic Binders	___ Residue
Gravimetric PREP ☐	# of Layers ___ Asbestos ☐ ☒	DS Color ___ Color,Pleo ___	___ Other	10 Other	___ Vermiculite	___ Carbonate
Gravimetric (NOB) PLM ☐	Color of Layer ___ Detected Yes No	Biref ___ Sign ___		Hair	___ Other	___ Other
Gravimetric (NOB) TEM ☐	Comments:			Q.C. ☐		___ Asbestos
POINT COUNT RESULTS ON THE BACK	Method: ☐ ELAP + EPA¹ ☐ ELAP ☐ EPA¹ ☐ OTHER ☒ SCANNING OPTION: ELAP (P.C.) & EPA¹ First 4 preps. Asbestos = 0					

3 Field No. 39	Stereoscopic Exam	PLM Optical Properties	Asbestos Results PLM %	Other Fibrous %	Non Fibrous %	Gravimetric (NOB) Results %
Gravimetric (NOB) Required ☐	Color Brown Texture F	Morphology ___ Extinction ___	___ Chrysotile	25 Cellulose	40 Mineral Filler	___ Organic
Recommended ☐	Homogenity Y	RI ∥ ___ RI ⊥ ___	___ Amosite	___ Fiberglass	5 Organic Binders	___ Residue
Gravimetric PREP ☐	# of Layers ___ Asbestos ☐ ☒	DS Color ___ Color,Pleo ___	___ Other	30 Other	___ Vermiculite	___ Carbonate
Gravimetric (NOB) PLM ☐	Color of Layer ___ Detected Yes No	Biref ___ Sign ___		Synthetic & Hair	___ Other	___ Other
Gravimetric (NOB) TEM ☐	Comments:			Q.C. ☐		___ Asbestos
POINT COUNT RESULTS ON THE BACK	Method: ☐ ELAP + EPA¹ ☐ ELAP ☐ EPA¹ ☐ OTHER ☒ SCANNING OPTION: ELAP (P.C.) & EPA¹ First 4 preps. Asbestos = 0					

4 Field No. 40	Stereoscopic Exam	PLM Optical Properties	Asbestos Results PLM %	Other Fibrous %	Non Fibrous %	Gravimetric (NOB) Results %
Gravimetric (NOB) Required ☐	Color Brown/Pink Texture F/Fb	Morphology ___ Extinction ___	1 Chrysotile	65 Cellulose	15 Mineral Filler	___ Organic
Recommended ☐	Homogenity N	RI ∥ ___ RI ⊥ ___	___ Amosite	___ Fiberglass	___ Organic Binders	___ Residue
Gravimetric PREP ☐	# of Layers ___ Asbestos ☐ ☒	DS Color ___ Color,Pleo ___	___ Other	20 Other	___ Vermiculite	___ Carbonate
Gravimetric (NOB) PLM ☐	Color of Layer ___ Detected Yes No	Biref ___ Sign ___		Synthetic & Hair	___ Other	___ Other
Gravimetric (NOB) TEM ☐	Comments:			Q.C. ☒ UP		___ Asbestos
POINT COUNT RESULTS ON THE BACK	Method: ☐ ELAP + EPA¹ ☐ ELAP ☐ EPA¹ ☐ OTHER ☒ SCANNING OPTION: ELAP (P.C.) & EPA¹ First 4 preps. Asbestos = 0					