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 NY10282 Project No. 14584-0819

Analysis Date 05/12/02 Analyst E. A. CANTEROS Batch No. 20396

1 Field No. C1	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. C2	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. C3	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					

4 Field No. C4	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					

CITY_21MC100_0004900027

NYC-WTC_000394366

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ATC ASSOCIATES INC - NEW YORK BULK ASBESTOS ANALYSIS SHEET

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NVLAP 101187
ELAP 10879
Microscope OLYP BH-2

Client / Project NYC-BOE / P.S. 89M, 201 WARREN ST. NY, NY10282 Project No. 14584-0819

Analysis Date 05/17/02 Analyst E. A. CHARIEROS Batch No. 20396

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	7 Cellulose	93 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	15 Cellulose	85 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	5 Cellulose	95 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					

4 Field No. 09	Stereoscopic Exam	PLM Optical Properties	Asbestos Results PLM %	Other Fibrous %	Non Fibrous %	Gravimetric (NOB) Results %
Gravimetric (NOB) Required ☐	Color Gray Texture Fib.	Morphology ___ Extinction ___	___ Chrysotile	75 Cellulose	___ Mineral Filler	___ Organic
Recommended ☐	Homogenity Y	RI ∥ ___ RI ⊥ ___	___ Amosite	___ Fiberglass	___ Organic Binders	___ Residue
Gravimetric PREP ☐	# of Layers ___ Asbestos ☐ ☑	DS Color ___ Color,Pleo ___	___ Other	25 Other Synthetic 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 10878
Microscope OLYP BH-2

Client / Project NYC-BOE / P.S. 89M, 201 WARREN ST. NY NY10282 Project No. 14584-0819

Analysis Date 05/17/02 Analyst E. A. CHANTERIS Batch No. 20396

1 Field No. 09	Stereoscopic Exam	PLM Optical Properties	Asbestos Results PLM %	Other Fibrous %	Non Fibrous %	Gravimetric (NOB) Results %
Gravimetric (NOB) Required ☐	Color Gray Texture Fib	Morphology ___ Extinction ___	___ Chrysotile	75 Cellulose	5 Mineral Filler	___ Organic
Recommended ☐	Homogenity Y	RI ∥ ___ RI ⊥ ___	___ Amosite	___ Fiberglass	___ Organic Binders	___ Residue
Gravimetric PREP ☐	# of Layers ___ Asbestos ☐ ☒	DS Color ___ Color,Pleo ___	___ Other	20 Other Synthetic & 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					

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 Gr.	Morphology ___ Extinction ___	___ Chrysotile	10 Cellulose	80 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. ☒ ND BK.		___ 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 Gr.	Morphology ___ Extinction ___	___ Chrysotile	10 Cellulose	90 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					

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 Fib.	Morphology ___ Extinction ___	___ Chrysotile	70 Cellulose	3 Mineral Filler	___ Organic
Recommended ☐	Homogenity Y	RI ∥ ___ RI ⊥ ___	___ Amosite	___ Fiberglass	___ Organic Binders	___ Residue
Gravimetric PREP ☐	# of Layers ___ Asbestos ☐ ☒	DS Color ___ Color,Pleo ___	___ Other	25 Other Synthetic & 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 BH-2

Client / Project NYC-BOE / P.S. 89M, 201 WARREN ST. NY, NY10282 Project No. 14584-0819

Analysis Date 05/17/02 Analyst E. A. CUARTEROS Batch No. 20396

	Field No.	Stereoscopic Exam	PLM Optical Properties	Asbestos Results PLM %	Other Fibrous %	Non Fibrous %	Gravimetric (NOB) Results %
1	13	Color Brown; Texture Gr.; Homogenity X; # of Layers ___; Asbestos ☐ ☒; Color of Layer ___; Detected Yes No; Comments:	Morphology ___; Extinction ___; RI ∥ ___; RI ⊥ ___; DS Color ___; Color,Pleo ___; Biref ___; Sign ___	___ Chrysotile; ___ Amosite; ___ Other	___ Cellulose; ___ Fiberglass; ___ Other	95 Mineral Filler; 5 Organic Binders; ___ Vermiculite; ___ Other	___ Organic; ___ Residue; ___ Carbonate; ___ Other; ___ Asbestos
2	14	Color Gray; Texture Fib.; Homogenity X; # of Layers ___; Asbestos ☐ ☒; Color of Layer ___; Detected Yes No; Comments:	Morphology ___; Extinction ___; RI ∥ ___; RI ⊥ ___; DS Color ___; Color,Pleo ___; Biref ___; Sign ___	___ Chrysotile; ___ Amosite; ___ Other	70 Cellulose; ___ Fiberglass; 30 Other Synthetic	___ Mineral Filler; ___ Organic Binders; ___ Vermiculite; ___ Other	___ Organic; ___ Residue; ___ Carbonate; ___ Other; ___ Asbestos
3	15	Color Gray; Texture Cic.; Homogenity X; # of Layers ___; Asbestos ☐ ☒; Color of Layer ___; Detected Yes No; Comments:	Morphology ___; Extinction ___; RI ∥ ___; RI ⊥ ___; DS Color ___; Color,Pleo ___; Biref ___; Sign ___	___ Chrysotile; ___ Amosite; ___ Other	___ Cellulose; ___ Fiberglass; ___ Other	100 Mineral Filler; ___ Organic Binders; ___ Vermiculite; ___ Other	___ Organic; ___ Residue; ___ Carbonate; ___ Other; ___ Asbestos
4	16	Color Gray; Texture Fib.; Homogenity X; # of Layers ___; Asbestos ☐ ☒; Color of Layer ___; Detected Yes No; Comments:	Morphology ___; Extinction ___; RI ∥ ___; RI ⊥ ___; DS Color ___; Color,Pleo ___; Biref ___; Sign ___	___ Chrysotile; ___ Amosite; ___ Other	80 Cellulose; ___ Fiberglass; 20 Other Synthetic	___ 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

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

Q.C. ☐

CITY_21MC100_000490030

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NVLAP 101187
ELAP 10878
Microscope OLYP BH-2

Client / Project NYC-BOE / P.S. 89M, 201 WARREN ST. NY, NY10282 Project No. 14584-0819

Analysis Date 05/17/02 Analyst E. A. CHARTERS Batch No. 20396

1 Field No. 17	Stereoscopic Exam	PLM Optical Properties	Asbestos Results PLM %	Other Fibrous %	Non Fibrous %	Gravimetric (NOB) Results %
Gravimetric (NOB) Required ☐	Color Gray Texture Fib.	Morphology ___ Extinction ___	___ Chrysotile	75 Cellulose	5 Mineral Filler	___ Organic
Recommended ☐	Homogenity Y	RI ∥ ___ RI ⊥ ___	___ Amosite	___ Fiberglass	___ Organic Binders	___ Residue
Gravimetric PREP ☐	# of Layers ___ Asbestos ☐ ☒	DS Color ___ Color,Pleo ___	___ Other	20 Other Synthetic & 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					

2 Field No. 18	Stereoscopic Exam	PLM Optical Properties	Asbestos Results PLM %	Other Fibrous %	Non Fibrous %	Gravimetric (NOB) Results %
Gravimetric (NOB) Required ☐	Color Gray Texture Fib	Morphology ___ Extinction ___	___ Chrysotile	65 Cellulose	5 Mineral Filler	___ Organic
Recommended ☐	Homogenity X	RI ∥ ___ RI ⊥ ___	___ Amosite	___ Fiberglass	___ Organic Binders	___ Residue
Gravimetric PREP ☐	# of Layers ___ Asbestos ☐ ☒	DS Color ___ Color,Pleo ___	___ Other	30 Other Synthetic & 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					

3 Field No. 19	Stereoscopic Exam	PLM Optical Properties	Asbestos Results PLM %	Other Fibrous %	Non Fibrous %	Gravimetric (NOB) Results %
Gravimetric (NOB) Required ☐	Color Gray Texture Fib.	Morphology ___ Extinction ___	___ Chrysotile	80 Cellulose	___ Mineral Filler	___ Organic
Recommended ☐	Homogenity Y	RI ∥ ___ RI ⊥ ___	___ Amosite	___ Fiberglass	___ Organic Binders	___ Residue
Gravimetric PREP ☐	# of Layers ___ Asbestos ☐ ☒	DS Color ___ Color,Pleo ___	___ Other	20 Other Synthetic & 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					

4 Field No. 20	Stereoscopic Exam	PLM Optical Properties	Asbestos Results PLM %	Other Fibrous %	Non Fibrous %	Gravimetric (NOB) Results %
Gravimetric (NOB) Required ☐	Color Gray Texture Fib.	Morphology ___ Extinction ___	___ Chrysotile	80 Cellulose	___ Mineral Filler	___ Organic
Recommended ☐	Homogenity Y	RI ∥ ___ RI ⊥ ___	___ 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	Biref ___ Sign ___			___ Other	___ Other
Gravimetric (NOB) TEM ☐	Comments:			Q.C. ☒ ND /ga		___ 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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Analysis Date 05/17/02 Analyst E. A. CARTEROS Batch No. 20396

1 Field No. 21	Stereoscopic Exam		PLM Optical Properties		Asbestos Results PLM %	Other Fibrous %	Non Fibrous %	Gravimetric (NOB) Results %
Gravimetric (NOB) Required ☐	Color Gray	Texture Fib.	Morphology ____	Extinction ____	____ Chrysotile	70 Cellulose	____ Mineral Filler	____ Organic
Recommended ☐	Homogenity Y		RI ∥ ____	RI ⊥ ____	____ Amosite	____ Fiberglass	____ Organic Binders	____ Residue
Gravimetric PREP ☐	# of Layers ____	Asbestos ☐ ☒	DS Color ____	Color,Pleo ____	____ Other	30 Other Synthetic & 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							

2 Field No. 22	Stereoscopic Exam		PLM Optical Properties		Asbestos Results PLM %	Other Fibrous %	Non Fibrous %	Gravimetric (NOB) Results %
Gravimetric (NOB) Required ☐	Color Gray	Texture Fib.	Morphology ____	Extinction ____	____ Chrysotile	75 Cellulose	____ Mineral Filler	____ Organic
Recommended ☐	Homogenity Y		RI ∥ ____	RI ⊥ ____	____ 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	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. 23	Stereoscopic Exam		PLM Optical Properties		Asbestos Results PLM %	Other Fibrous %	Non Fibrous %	Gravimetric (NOB) Results %
Gravimetric (NOB) Required ☐	Color Gray	Texture Fib.	Morphology ____	Extinction ____	____ Chrysotile	70 Cellulose	____ Mineral Filler	____ Organic
Recommended ☐	Homogenity Y		RI ∥ ____	RI ⊥ ____	____ Amosite	____ Fiberglass	____ Organic Binders	____ Residue
Gravimetric PREP ☐	# of Layers ____	Asbestos ☐ ☒	DS Color ____	Color,Pleo ____	____ Other	30 Other Synthetic & 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							

4 Field No. 24	Stereoscopic Exam		PLM Optical Properties		Asbestos Results PLM %	Other Fibrous %	Non Fibrous %	Gravimetric (NOB) Results %
Gravimetric (NOB) Required ☐	Color Gray	Texture Fib.	Morphology ____	Extinction ____	____ Chrysotile	75 Cellulose	____ Mineral Filler	____ Organic
Recommended ☐	Homogenity Y		RI ∥ ____	RI ⊥ ____	____ Amosite	____ Fiberglass	____ Organic Binders	____ Residue
Gravimetric PREP ☐	# of Layers ____	Asbestos ☐ ☒	DS Color ____	Color,Pleo ____	____ Other	25 Other Synthetic & 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							

CITY_21MC100_000490032

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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 OLYP BH-2

Client / Project NYC-BOE/P.S. 89M, 201 WARREN ST. NY NY10282 Project No. 14584-0819

Analysis Date 05/12/02 Analyst E. A. CUARTEROS Batch No. 20396

1 Field No. 25	Stereoscopic Exam	PLM Optical Properties	Asbestos Results PLM %	Other Fibrous %	Non Fibrous %	Gravimetric (NOB) Results %
Gravimetric (NOB) Required ☐	Color Gray Texture Fib.	Morphology ___ Extinction ___	___ Chrysotile	80 Cellulose	___ Mineral Filler	___ Organic
Recommended ☐	Homogenity Y	RI ∥ ___ RI ⊥ ___	___ 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	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. 26	Stereoscopic Exam	PLM Optical Properties	Asbestos Results PLM %	Other Fibrous %	Non Fibrous %	Gravimetric (NOB) Results %
Gravimetric (NOB) Required ☐	Color Gray Texture Fib.	Morphology ___ Extinction ___	___ Chrysotile	70 Cellulose	___ Mineral Filler	___ Organic
Recommended ☐	Homogenity Y	RI ∥ ___ RI ⊥ ___	___ Amosite	___ Fiberglass	___ Organic Binders	___ Residue
Gravimetric PREP ☐	# of Layers ___ Asbestos ☐ ☒	DS Color ___ Color,Pleo ___	___ Other	30 Other Synthetic & 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					

3 Field No. 27	Stereoscopic Exam	PLM Optical Properties	Asbestos Results PLM %	Other Fibrous %	Non Fibrous %	Gravimetric (NOB) Results %
Gravimetric (NOB) Required ☐	Color Gray 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					

4 Field No. 28	Stereoscopic Exam	PLM Optical Properties	Asbestos Results PLM %	Other Fibrous %	Non Fibrous %	Gravimetric (NOB) Results %
Gravimetric (NOB) Required ☐	Color Gray Texture Fib.	Morphology ___ Extinction ___	___ Chrysotile	80 Cellulose	___ Mineral Filler	___ Organic
Recommended ☐	Homogenity Y	RI ∥ ___ RI ⊥ ___	___ Amosite	___ Fiberglass	___ Organic Binders	___ Residue
Gravimetric PREP ☐	# of Layers ___ Asbestos ☐ ☒	DS Color ___ Color,Pleo ___	___ Other	20 Other Synthetic & 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					

CITY_21MC100_000490033

NYC-WTC_000394372

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NVLAP 101187
ELAP 10878
Microscope OLYP BH-2

Client / Project NYC-BOE / P.S. 89M, 201 Warren St. NY, NY10282 Project No. 14584-0819

Analysis Date 05/17/02 Analyst E. A. Cuaresma Batch No. 20396

1 Field No. 29	Stereoscopic Exam	PLM Optical Properties	Asbestos Results PLM %	Other Fibrous %	Non Fibrous %	Gravimetric (NOB) Results %
Gravimetric (NOB) Required ☐	Color Gray Texture Fib.	Morphology ___ Extinction ___	___ Chrysotile	60 Cellulose	___ 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					

2 Field No. 30	Stereoscopic Exam	PLM Optical Properties	Asbestos Results PLM %	Other Fibrous %	Non Fibrous %	Gravimetric (NOB) Results %
Gravimetric (NOB) Required ☐	Color Gray Texture Fib.	Morphology ___ Extinction ___	___ Chrysotile	75 Cellulose	___ Mineral Filler	___ Organic
Recommended ☐	Homogenity Y	RI ∥ ___ RI ⊥ ___	___ Amosite	___ Fiberglass	___ Organic Binders	___ Residue
Gravimetric PREP ☐	# of Layers ___ Asbestos ☐ ☒	DS Color ___ Color,Pleo ___	___ Other	25 Other	___ Vermiculite	___ Carbonate
Gravimetric (NOB) PLM ☐	Color of Layer ___ Detected Yes No	Biref ___ Sign ___		Synthetic	___ Other	___ Other
Gravimetric (NOB) TEM ☐	Comments:			Q.C. ☒ ND PLC.		___ 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 Gray Texture Coll.	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. 32	Stereoscopic Exam	PLM Optical Properties	Asbestos Results PLM %	Other Fibrous %	Non Fibrous %	Gravimetric (NOB) Results %
Gravimetric (NOB) Required ☐	Color Gray Texture F	Morphology ___ Extinction ___	___ Chrysotile	20 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	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					

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NVLAP 101187
ELAP 10878
Microscope OLYP BH-2

Client / Project NYC-BOE / P.S. 89M, 201 WARREN ST. NY NY10282 Project No. 14584-0819

Analysis Date 05/17/02 Analyst E. A. CUARTERO) Batch No. 20396

1 Field No. 33	Stereoscopic Exam	PLM Optical Properties	Asbestos Results PLM %	Other Fibrous %	Non Fibrous %	Gravimetric (NOB) Results %
Gravimetric (NOB) Required ☐	Color Gray Texture F	Morphology ___ Extinction ___	___ Chrysotile	10 Cellulose	80 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					

2 Field No. 34	Stereoscopic Exam	PLM Optical Properties	Asbestos Results PLM %	Other Fibrous %	Non Fibrous %	Gravimetric (NOB) Results %
Gravimetric (NOB) Required ☐	Color Gray Texture Fib.	Morphology ___ Extinction ___	___ Chrysotile	70 Cellulose	___ Mineral Filler	___ Organic
Recommended ☐	Homogenity Y	RI ∥ ___ RI ⊥ ___	___ Amosite	___ Fiberglass	___ Organic Binders	___ Residue
Gravimetric PREP ☐	# of Layers ___ Asbestos ☐ ☒	DS Color ___ Color,Pleo ___	___ Other	30 Other Synthetic + 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					

3 Field No. 35	Stereoscopic Exam	PLM Optical Properties	Asbestos Results PLM %	Other Fibrous %	Non Fibrous %	Gravimetric (NOB) Results %
Gravimetric (NOB) Required ☐	Color Gray Texture F	Morphology ___ Extinction ___	___ Chrysotile	20 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	___ 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. 36	Stereoscopic Exam	PLM Optical Properties	Asbestos Results PLM %	Other Fibrous %	Non Fibrous %	Gravimetric (NOB) Results %
Gravimetric (NOB) Required ☐	Color Gray Texture Fib.	Morphology ___ Extinction ___	___ Chrysotile	65 Cellulose	5 Mineral Filler	___ Organic
Recommended ☐	Homogenity Y	RI ∥ ___ RI ⊥ ___	___ Amosite	___ Fiberglass	___ Organic Binders	___ Residue
Gravimetric PREP ☐	# of Layers ___ Asbestos ☐ ☒	DS Color ___ Color,Pleo ___	___ Other	30 Other Synthetic	___ 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					

CITY_21MC100_000490035

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NVLAP 101187
ELAP 10879
Microscope OLYP BH-2

Client / Project NYC-BOE / P.S. 89M, 201 WARREN ST. NY NY10282 Project No. 14584-0819

Analysis Date 05/17/02 Analyst E. A. CONTEROS Batch No. 20396

	1 Field No. 37	2 Field No. 38	3 Field No. 39	4 Field No. 40
Gravimetric (NOB) Required	☐	☐	☐	☐
Recommended	☐	☐	☐	☐
Gravimetric PREP	☐	☐	☐	☐
Gravimetric (NOB) PLM	☐	☐	☐	☐
Gravimetric (NOB) TEM	☐	☐	☐	☐
POINT COUNT RESULTS ON THE BACK				
Stereoscopic Exam				
Color	Gray	Gray	Gray	Brown
Texture	F	F	Fib.	Gr.
Homogenity	Y	Y	Y	Y
# of Layers				
Asbestos	☐ ☒	☐ ☒	☐ ☒	☐ ☒
Color of Layer				
Detected	Yes No	Yes No	Yes No	Yes No
Comments:				
Method:	☐ ELAP + EPA¹ ☐ ELAP ☐ EPA¹ ☐ OTHER ☒ SCANNING OPTION: ELAP (P.C.) & EPA¹ First 4 preps. Asbestos = 0			
PLM Optical Properties				
Morphology				
Extinction				
RI |				
RI ⊥				
DS Color				
Color,Pleo				
Biref				
Sign				
Asbestos Results PLM %				
Chrysotile				
Amosite				
Other				
Other Fibrous %				
Cellulose	25	30	70	10
Fiberglass				
Other			20 Synthetic	
Q.C.	☐	☐	☐	☒ ND /jk.
Non Fibrous %				
Mineral Filler	70	60	10	80
Organic Binders	5	10		10
Vermiculite				
Other				
Gravimetric (NOB) Results %				
Organic				
Residue				
Carbonate				
Other				
Asbestos				

CITY_21MC100_0004900036

NYC-WTC_000394375