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. 14584-0819

Analysis Date 05/03/02 Analyst ELENA A. CUARTEROS Batch No. 20346

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	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				

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 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. 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	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. 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	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				

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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. 14584-0819

Analysis Date 05/03/02 Analyst ELENA A. CUARTEROS Batch No. 20346

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	3 Cellulose	94 Mineral Filler	___ Organic
Recommended ☐	Homogenity Y	RI ∥ ___ RI ⊥ ___	___ Amosite	___ Fiberglass	3 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	96 Mineral Filler	___ Organic
Recommended ☐	Homogenity Y	RI ∥ ___ RI ⊥ ___	___ Amosite	___ Fiberglass	4 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	93 Mineral Filler	___ Organic
Recommended ☐	Homogenity Y	RI ∥ ___ RI ⊥ ___	___ Amosite	___ Fiberglass	7 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 F	Morphology ___ Extinction ___	___ Chrysotile	50 Cellulose	30 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					

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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 05/03/02 Analyst ELENA A. CUARTEROS Batch No. 20346

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	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							

2 Field No. 10	Stereoscopic Exam		PLM Optical Properties		Asbestos Results PLM %	Other Fibrous %	Non Fibrous %	Gravimetric (NOB) Results %
Gravimetric (NOB) Required ☐	Color Tan	Texture F	Morphology	Extinction	Chrysotile	50 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	40 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. 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	5 Cellulose	75 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. 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	30 Cellulose	30 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 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							

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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 05/03/02 Analyst ELENA A. CUARTEROS Batch No. 20346

	Field No.	Stereoscopic Exam	PLM Optical Properties	Asbestos Results PLM %	Other Fibrous %	Non Fibrous %	Gravimetric (NOB) Results %
1	13	Color Brown Texture Gr. Homogenity Y # of Layers — Asbestos ☐ ☒ Color of Layer — Detected Yes No Comments:	Morphology — Extinction — RI l — RI ll — DS Color — Color,Pleo — Biref — Sign —	— Chrysotile — Amosite — Other	5 Cellulose — Fiberglass — Other	80 Mineral Filler 15 Organic Binders — Vermiculite — Other	— Organic — Residue — Carbonate — Other Asbestos
2	14	Color Brown Texture Gr Homogenity Y # of Layers — Asbestos ☐ ☒ Color of Layer — Detected Yes No Comments:	Morphology — Extinction — RI l — RI ll — DS Color — Color,Pleo — Biref — Sign —	— Chrysotile — Amosite — Other	— Cellulose — Fiberglass — Other	90 Mineral Filler 10 Organic Binders — Vermiculite — Other	— Organic — Residue — Carbonate — Other Asbestos
3	15	Color Brown Texture Fib. Homogenity Y # of Layers — Asbestos ☐ ☒ Color of Layer — Detected Yes No Comments:	Morphology — Extinction — RI l — RI ll — 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 Texture F Homogenity Y # of Layers — Asbestos ☐ ☒ Color of Layer — Detected Yes No Comments:	Morphology — Extinction — RI l — RI ll — DS Color — Color,Pleo — Biref — Sign —	— Chrysotile — Amosite — Other	10 Cellulose — Fiberglass 10 Other Synthetic	80 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. ☐

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

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NYC-WTC_000177706

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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. 14584-0819

Analysis Date 05/03/02 Analyst ELENA A. CUARTEROS Batch No. 20346

1 Field No. 17	Stereoscopic Exam	PLM Optical Properties	Asbestos Results PLM %	Other Fibrous %	Non Fibrous %	Gravimetric (NOB) Results %
Gravimetric (NOB) Required ☐	Color Black/Green Texture Fib.	Morphology ____ Extinction ____	____ Chrysotile	10 Cellulose	5 Mineral Filler	____ Organic
Recommended ☐	Homogenity N	RI ∥ ____ RI ⊥ ____	____ Amosite	____ Fiberglass	5 Organic Binders	____ Residue
Gravimetric PREP ☐	# of Layers ____ Asbestos ☐ ☒	DS Color ____ Color,Pleo ____	____ Other	80 Other Hair & 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. 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	30 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	____ 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. 19	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	90 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. 20	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	90 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		____ Asbestos
POINT COUNT RESULTS ON THE BACK	Method: ☐ ELAP + EPA¹ ☐ ELAP ☐ EPA¹ ☐ OTHER ☒ SCANNING OPTION: ELAP (P.C.) & EPA¹ First 4 preps. Asbestos = 0					

SUBJECT TO PROTECTIVE ORDER NO. 2, SEPT. 2008 CONFIDENTIAL, CITY_21MC100_0034738 39

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Analysis Date 05/03/02 Analyst ELENA A. CUARTEROS Batch No. 20346

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 Cr.	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. 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	5 Cellulose	75 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	___ 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. 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	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. 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	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 ___		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 10870
Microscope OLYP BH-2

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

Analysis Date 05/03/02 Analyst ELENA A. CUARTEROS Batch No. 20346

	Field No.	Stereoscopic Exam	PLM Optical Properties	Asbestos Results PLM %	Other Fibrous %	Non Fibrous %	Gravimetric (NOB) Results %
1	25	Color Brown; Texture F; Homogenity Y; # of Layers ___; Color of Layer ___; Asbestos ☐ ☒; Detected Yes No; Comments:	Morphology ___; Extinction ___; RI ∥ ___; RI ⊥ ___; DS Color ___; Color,Pleo ___; Biref ___; Sign ___	Chrysotile ___; Amosite ___; Other ___	Cellulose ___; Fiberglass ___; Other 20; Ha:	Mineral Filler 80; Organic Binders ___; Vermiculite ___; Other ___	Organic ___; Residue ___; Carbonate ___; Other ___; Asbestos ___
2	26	Color Brown; Texture Gr.; Homogenity Y; # of Layers ___; Color of Layer ___; Asbestos ☐ ☒; Detected Yes No; Comments:	Morphology ___; Extinction ___; RI ∥ ___; RI ⊥ ___; DS Color ___; Color,Pleo ___; Biref ___; Sign ___	Chrysotile ___; Amosite ___; Other ___	Cellulose ___; Fiberglass ___; Other ___	Mineral Filler 100; Organic Binders ___; Vermiculite ___; Other ___	Organic ___; Residue ___; Carbonate ___; Other ___; Asbestos ___
3	27	Color Brown; Texture F; Homogenity Y; # of Layers ___; Color of Layer ___; Asbestos ☐ ☒; Detected Yes No; Comments:	Morphology ___; Extinction ___; RI ∥ ___; RI ⊥ ___; DS Color ___; Color,Pleo ___; Biref ___; Sign ___	Chrysotile ___; Amosite ___; Other ___	Cellulose 20; Fiberglass ___; Other ___	Mineral Filler 70; Organic Binders 10; Vermiculite ___; Other ___	Organic ___; Residue ___; Carbonate ___; Other ___; Asbestos ___
4	28	Color Brown; Texture F; Homogenity Y; # of Layers ___; Color of Layer ___; Asbestos ☐ ☒; Detected Yes No; Comments:	Morphology ___; Extinction ___; RI ∥ ___; RI ⊥ ___; DS Color ___; Color,Pleo ___; Biref ___; Sign ___	Chrysotile ___; Amosite ___; Other ___	Cellulose 15; Fiberglass ___; Other ___	Mineral Filler 85; 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 1: ELAP (P.C.) & EPA¹ First 4 preps. Asbestos = 0

Q.C. ☐

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

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NYC 9/11 Public Portal Document

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/PS 89M, 201 Warren St. NY, NY10282 Project No. 14584-0819

Analysis Date 05/03/02 Analyst ELENA A. CUARTEROS Batch No. 20346

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	15 Cellulose	70 Mineral Filler	___ Organic
Recommended ☐	Homogenity Y	RI l ___ RI ll ___	___ Amosile	___ Fiberglass	15 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	10 Cellulose	80 Mineral Filler	___ Organic
Recommended ☐	Homogenity Y	RI l ___ RI ll ___	___ Amosile	___ 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 /nc.		___ 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	___ Cellulose	80 Mineral Filler	___ Organic
Recommended ☐	Homogenity Y	RI l ___ RI ll ___	___ Amosile	___ 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	50 Cellulose	20 Mineral Filler	___ Organic
Recommended ☐	Homogenity Y	RI l ___ RI ll ___	___ Amosile	___ 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					

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NVLAP 101187
ELAP 10870
Microscope OLYP BH-2

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

Analysis Date 05/03/02 Analyst ELENA A. CUARTEROS Batch No. 20346

	Stereoscopic Exam	PLM Optical Properties	Asbestos Results PLM %	Other Fibrous %	Non Fibrous %	Gravimetric (NOB) Results %
1 Field No. 33	Color Brown Texture F	Morphology ____ Extinction ____	____ Chrysotile	40 Cellulose	50 Mineral Filler	____ Organic
Gravimetric (NOB) Required ☐	Homogenity Y	RI ∥ ____ RI ⊥ ____	____ Amosile	____ Fiberglass	10 Organic Binders	____ Residue
Recommended ☐	# of Layers ____ Asbestos ☐ ☒	DS Color ____ Color,Pleo ____	____ Other	____ Other	____ Vermiculite	____ Carbonate
Gravimetric PREP ☐						
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	Color Brown Texture F	Morphology ____ Extinction ____	____ Chrysotile	10 Cellulose	60 Mineral Filler	____ Organic
Gravimetric (NOB) Required ☐	Homogenity Y	RI ∥ ____ RI ⊥ ____	____ Amosile	____ Fiberglass	____ Organic Binders	____ Residue
Recommended ☐	# of Layers ____ Asbestos ☐ ☒	DS Color ____ Color,Pleo ____	____ Other	30 Other Hair Synthetic	____ Vermiculite	____ Carbonate
Gravimetric PREP ☐						
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	Color Brown Texture F	Morphology ____ Extinction ____	____ Chrysotile	40 Cellulose	40 Mineral Filler	____ Organic
Gravimetric (NOB) Required ☐	Homogenity Y	RI ∥ ____ RI ⊥ ____	____ Amosile	____ Fiberglass	____ Organic Binders	____ Residue
Recommended ☐	# of Layers ____ Asbestos ☐ ☒	DS Color ____ Color,Pleo ____	____ Other	20 Other Synthetic	____ Vermiculite	____ Carbonate
Gravimetric PREP ☐						
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	Color Brown Texture GR.	Morphology ____ Extinction ____	____ Chrysotile	____ Cellulose	100 Mineral Filler	____ Organic
Gravimetric (NOB) Required ☐	Homogenity Y	RI ∥ ____ RI ⊥ ____	____ Amosile	____ Fiberglass	____ Organic Binders	____ Residue
Recommended ☐	# of Layers ____ Asbestos ☐ ☒	DS Color ____ Color,Pleo ____	____ Other	____ Other	____ Vermiculite	____ Carbonate
Gravimetric PREP ☐						
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 10870
Microscope OLYP BH-2

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

Analysis Date 05/03/02 Analyst ELENA A. CUARTEROS Batch No. 20346

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 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					

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 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. 39	Stereoscopic Exam	PLM Optical Properties	Asbestos Results PLM %	Other Fibrous %	Non Fibrous %	Gravimetric (NOB) Results %
Gravimetric (NOB) Required ☐	Color Brown/White Texture F	Morphology ___ Extinction ___	___ Chrysotile	30 Cellulose	10 Mineral Filler	___ Organic
Recommended ☐	Homogenity N	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 ___			50 Other Foam	___ 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 Texture F	Morphology ___ Extinction ___	___ Chrysotile	50 Cellulose	25 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 Hair	___ Vermiculite	___ Carbonate
Gravimetric (NOB) PLM ☐	Color of Layer ___ Detected Yes No	Biref ___ Sign ___			___ Other	___ Other
Gravimetric (NOB) TEM ☐	Comments:			Q.C. ☒ ND fib.		___ 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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