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 / 100 TRINITY PLACE, NEW YORK, NY 10006 (HS FOR ECONOMICS & FINANCE (M833)) Project No. 14584-0790

Analysis Date 10/04/01 Analyst E. A. CUARTEROS Batch No. 19579

1 Field No. 01	Stereoscopic Exam	PLM Optical Properties	Asbestos Results PLM %	Other Fibrous %	Non Fibrous %	Gravimetric (NOB) Results %
Gravimetric (NOB) Required ☐	Color ____ Texture ____	Morphology ____ Extinction ____	____ Chrysotile	✓ Cellulose	✓ Mineral Filler	____ Organic
Recommended ☐	Homogenity ____	RI ∥ ____ 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: DUST SAMPLE			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 ____ Texture ____	Morphology ____ Extinction ____	____ Chrysotile	✓ Cellulose	✓ Mineral Filler	____ Organic
Recommended ☐	Homogenity ____	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 Paint	____ Other
Gravimetric (NOB) TEM ☐	Comments: DUST SAMPLE			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 ____ Texture ____	Morphology ____ Extinction ____	____ Chrysotile	✓ Cellulose	✓ Mineral Filler	____ Organic
Recommended ☐	Homogenity ____	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: DUST SAMPLE			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 ____ Texture ____	Morphology ____ Extinction ____	____ Chrysotile	✓ Cellulose	✓ Mineral Filler	____ Organic
Recommended ☐	Homogenity ____	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: DUST SAMPLE			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_00927953 4

NYC-WTC_000340236

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NVLAP 101187
ELAP 10879
Microscope OLYP BH 2

MS FOR ECONOMICS & FINANCE (M833)

Client / Project NYC-BOE / 100 TRINITY PLACE, NEW YORK, NY 10006 Project No. 14584-C790

Analysis Date 10/04/01 Analyst E. A. CABALLEROS Batch No. 19579

	Field No.	Stereoscopic Exam	PLM Optical Properties	Asbestos Results PLM %	Other Fibrous %	Non Fibrous %	Gravimetric (NOB) Results %
1	05	Color ____ Texture ____ Homogenity ____ # of Layers ____ Asbestos ☐ ☒ Color of Layer ____ Detected Yes No Comments: DUST SAMPLE Method: ☐ ELAP + EPA¹ ☐ ELAP ☐ EPA¹ ☒ OTHER ☐ SCANNING OPTION: ELAP (P.C.) & EPA¹ First 4 preps Asbestos = 0	Morphology ____ Extinction ____ RI ∥ ____ RI ⊥ ____ DS Color ____ Color,Pleo ____ Biref ____ Sign ____	____ Chrysotile ____ Amosite ____ Other	✓ Cellulose ✓ Fiberglass ____ Other Q.C. ☐	✓ Mineral Filler ____ Organic Binders ____ Vermiculite ____ Other	____ Organic ____ Residue ____ Carbonate ____ Other ____ Asbestos
2	06	Color ____ Texture ____ Homogenity ____ # of Layers ____ Asbestos ☐ ☒ Color of Layer ____ Detected Yes No Comments: DUST SAMPLE Method: ☐ ELAP + EPA¹ ☐ ELAP ☐ EPA¹ ☒ OTHER ☐ SCANNING OPTION: ELAP (P.C.) & EPA¹ First 4 preps Asbestos = 0	Morphology ____ Extinction ____ RI ∥ ____ RI ⊥ ____ DS Color ____ Color,Pleo ____ Biref ____ Sign ____	____ Chrysotile ____ Amosite ____ Other	✓ Cellulose ✓ Fiberglass ____ Other Q.C. ☐	✓ Mineral Filler ____ Organic Binders ____ Vermiculite ____ Other	____ Organic ____ Residue ____ Carbonate ____ Other ____ Asbestos
3	07	Color ____ Texture ____ Homogenity ____ # of Layers ____ Asbestos ☐ ☒ Color of Layer ____ Detected Yes No Comments: DUST SAMPLE Method: ☐ ELAP + EPA¹ ☐ ELAP ☐ EPA¹ ☒ OTHER ☐ SCANNING OPTION: ELAP (P.C.) & EPA¹ First 4 preps Asbestos = 0	Morphology ____ Extinction ____ RI ∥ ____ RI ⊥ ____ DS Color ____ Color,Pleo ____ Biref ____ Sign ____	____ Chrysotile ____ Amosite ____ Other	✓ Cellulose ✓ Fiberglass ____ Other Q.C. ☐	✓ Mineral Filler ____ Organic Binders ____ Vermiculite ____ Other	____ Organic ____ Residue ____ Carbonate ____ Other ____ Asbestos
4	08	Color ____ Texture ____ Homogenity ____ # of Layers ____ Asbestos ☐ ☒ Color of Layer ____ Detected Yes No Comments: DUST SAMPLE Method: ☐ ELAP + EPA¹ ☐ ELAP ☐ EPA¹ ☒ OTHER ☐ SCANNING OPTION: ELAP (P.C.) & EPA¹ First 4 preps Asbestos = 0	Morphology ____ Extinction ____ RI ∥ ____ RI ⊥ ____ DS Color ____ Color,Pleo ____ Biref ____ Sign ____	____ Chrysotile ____ Amosite ____ Other	✓ Cellulose ✓ Fiberglass ____ Other Q.C. ☐	✓ 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

CITY_21MC100_00927953S

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NYLAP 101187
ELAP 10879
Microscope OLYP BH-2

HS For Economics & Finance (M833)

Client / Project NYC-BOE/100 Trinity Place New York, NY 10006 Project No. 14584-0796

Analysis Date 10/04/01 Analyst E. A. Cuadrado Batch No. 19579

1 Field No. 09	Stereoscopic Exam	PLM Optical Properties	Asbestos Results PLM %	Other Fibrous %	Non Fibrous %	Gravimetric (NOB) Results %
Gravimetric (NOB) Required ☐ Recommended ☐ Gravimetric PREP ☐ Gravimetric (NOB) PLM ☐ Gravimetric (NOB) TEM ☐	Color ____ Texture ____ Homogenity ____ # of Layers ____ Asbestos ☐ ☒ Color of Layer ____ Detected Yes No	Morphology ____ Extinction ____ RI ∥ ____ RI ⊥ ____ DS Color ____ Color,Pleo ____ Biref ____ Sign ____	____ Chrysotile ____ Amosite ____ Other	✓ Cellulose ✓ Fiberglass ____ Other	✓ Mineral Filler ____ Organic Binders ____ Vermiculite ____ Other	____ Organic ____ Residue ____ Carbonate ____ Other ____ Asbestos
Comments: Dust Sample				Q.C. ☐		
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 ☐ Recommended ☐ Gravimetric PREP ☐ Gravimetric (NOB) PLM ☐ Gravimetric (NOB) TEM ☐	Color ____ Texture ____ Homogenity ____ # of Layers ____ Asbestos ☐ ☒ Color of Layer ____ Detected Yes No	Morphology ____ Extinction ____ RI ∥ ____ RI ⊥ ____ DS Color ____ Color,Pleo ____ Biref ____ Sign ____	____ Chrysotile ____ Amosite ____ Other	✓ Cellulose ✓ Fiberglass ____ Other	✓ Mineral Filler ____ Organic Binders ____ Vermiculite ____ Other	____ Organic ____ Residue ____ Carbonate ____ Other ____ Asbestos
Comments: Dust Sample				Q.C. ☐		
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 ☐ Recommended ☐ Gravimetric PREP ☐ Gravimetric (NOB) PLM ☐ Gravimetric (NOB) TEM ☐	Color ____ Texture ____ Homogenity ____ # of Layers ____ Asbestos ☐ ☒ Color of Layer ____ Detected Yes No	Morphology ____ Extinction ____ RI ∥ ____ RI ⊥ ____ DS Color ____ Color,Pleo ____ Biref ____ Sign ____	____ Chrysotile ____ Amosite ____ Other	✓ Cellulose ✓ Fiberglass ____ Other	✓ Mineral Filler ____ Organic Binders ____ Vermiculite ____ Other	____ Organic ____ Residue ____ Carbonate ____ Other ____ Asbestos
Comments: Dust Sample				Q.C. ☐		
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 ☐ Recommended ☐ Gravimetric PREP ☐ Gravimetric (NOB) PLM ☐ Gravimetric (NOB) TEM ☐	Color ____ Texture ____ Homogenity ____ # of Layers ____ Asbestos ☐ ☒ Color of Layer ____ Detected Yes No	Morphology ____ Extinction ____ RI ∥ ____ RI ⊥ ____ DS Color ____ Color,Pleo ____ Biref ____ Sign ____	____ Chrysotile ____ Amosite ____ Other	✓ Cellulose ✓ Fiberglass ____ Other	✓ Mineral Filler ____ Organic Binders ____ Vermiculite ____ Other	____ Organic ____ Residue ____ Carbonate ____ Other ____ Asbestos
Comments: Dust Sample				Q.C. ☐		
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_009279536

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NVLAP 101187
ELAP 10878
Microscope OLYP BH 2

MS FOR ECONOMICS & FINANCE (M833)

Client / Project NYC-BOE / 100 TRINITY PLACE, NEW YORK, NY 10006 Project No. 14584-C79C

Analysis Date 10/04/01 Analyst E. A. CARREROS Batch No. 19579

1 Field No. 13	Stereoscopic Exam	PLM Optical Properties	Asbestos Results PLM %	Other Fibrous %	Non Fibrous %	Gravimetric (NOB) Results %
Gravimetric (NOB) Required ☐	Color ____ Texture ____	Morphology ____ Extinction ____	____ Chrysotile	✓ Cellulose	✓ Mineral Filler	____ Organic
Recommended ☐	Homogenity ____	RI ∥ ____ 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: DUST SAMPLE			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. 14	Stereoscopic Exam	PLM Optical Properties	Asbestos Results PLM %	Other Fibrous %	Non Fibrous %	Gravimetric (NOB) Results %
Gravimetric (NOB) Required ☐	Color ____ Texture ____	Morphology ____ Extinction ____	____ Chrysotile	✓ Cellulose	✓ Mineral Filler	____ Organic
Recommended ☐	Homogenity ____	RI ∥ ____ 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: DUST SAMPLE			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. 15	Stereoscopic Exam	PLM Optical Properties	Asbestos Results PLM %	Other Fibrous %	Non Fibrous %	Gravimetric (NOB) Results %
Gravimetric (NOB) Required ☐	Color ____ Texture ____	Morphology ____ Extinction ____	____ Chrysotile	✓ Cellulose	✓ Mineral Filler	____ Organic
Recommended ☐	Homogenity ____	RI ∥ ____ 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: DUST SAMPLE			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. 16	Stereoscopic Exam	PLM Optical Properties	Asbestos Results PLM %	Other Fibrous %	Non Fibrous %	Gravimetric (NOB) Results %
Gravimetric (NOB) Required ☐	Color ____ Texture ____	Morphology ____ Extinction ____	____ Chrysotile	✓ Cellulose	✓ Mineral Filler	____ Organic
Recommended ☐	Homogenity ____	RI ∥ ____ 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: DUST SAMPLE			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

MS FOR ECONOMICS & FINANCE (M 833)

Client / Project NYC-BOE / 100 TRINITY PLACE NEW YORK, NY 10006 Project No. 14584-C790

Analysis Date 10/04/01 Analyst E. A. CUARTEROS Batch No. 19579

	Stereoscopic Exam	PLM Optical Properties	Asbestos Results PLM %	Other Fibrous %	Non Fibrous %	Gravimetric (NOB) Results %
1 Field No. 17	Color ____ Texture ____	Morphology ____ Extinction ____	____ Chrysotile	✓ Cellulose	✓ Mineral Filler	____ Organic
Gravimetric (NOB) Required ☐	Homogenity ____	RI ∥ ____ RI ⊥ ____	____ Amosite	✓ Fiberglass	____ Organic Binders	____ Residue
Recommended ☐	# of Layers ____ Asbestos ☐ ☒	DS Color ____ Color,Pleo ____	____ Other	____ Other	____ Vermiculite	____ Carbonate
Gravimetric PREP ☐					____ Other	____ Other
Gravimetric (NOB) PLM ☐	Color of Layer ____ Detected Yes / No	Bref ____ Sign ____				____ Asbestos
Gravimetric (NOB) TEM ☐	Comments: DUST SAMPLE			Q.C. ☐		
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 ____ Texture ____	Morphology ____ Extinction ____	____ Chrysotile	✓ Cellulose	✓ Mineral Filler	____ Organic
	Homogenity ____	RI ∥ ____ RI ⊥ ____	____ Amosite	✓ Fiberglass	____ Organic Binders	____ Residue
Recommended ☐	# of Layers ____ Asbestos ☐ ☒	DS Color ____ Color,Pleo ____	____ Other	____ Other	____ Vermiculite	____ Carbonate
Gravimetric PREP ☐					____ Other	____ Other
Gravimetric (NOB) PLM ☐	Color of Layer ____ Detected Yes No	Bref ____ Sign ____				____ Asbestos
Gravimetric (NOB) TEM ☐	Comments: DUST SAMPLE			Q.C. ☐		
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 ____ Texture ____	Morphology ____ Extinction ____	____ Chrysotile	✓ Cellulose	✓ Mineral Filler	____ Organic
	Homogenity ____	RI ∥ ____ RI ⊥ ____	____ Amosite	✓ Fiberglass	____ Organic Binders	____ Residue
Recommended ☐	# of Layers ____ Asbestos ☐ ☒	DS Color ____ Color,Pleo ____	____ Other	____ Other	____ Vermiculite	____ Carbonate
Gravimetric PREP ☐					____ Other	____ Other
Gravimetric (NOB) PLM ☐	Color of Layer ____ Detected Yes No	Bref ____ Sign ____				____ Asbestos
Gravimetric (NOB) TEM ☐	Comments: DUST SAMPLE			Q.C. ☐		
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 ____ Texture ____	Morphology ____ Extinction ____	____ Chrysotile	✓ Cellulose	✓ Mineral Filler	____ Organic
	Homogenity ____	RI ∥ ____ RI ⊥ ____	____ Amosite	✓ Fiberglass	____ Organic Binders	____ Residue
Recommended ☐	# of Layers ____ Asbestos ☐ ☒	DS Color ____ Color,Pleo ____	____ Other	____ Other	____ Vermiculite	____ Carbonate
Gravimetric PREP ☐					____ Other	____ Other
Gravimetric (NOB) PLM ☐	Color of Layer ____ Detected Yes No	Bref ____ Sign ____				____ Asbestos
Gravimetric (NOB) TEM ☐	Comments: DUST SAMPLE			Q.C. ☐		
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_0092795 38

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NVLAP 101187
ELAP 10870
Microscope OLYP BH 2

MS FOR ECONOMICS & FINANCE (M833)

Client / Project NYC-BOE / 100 TRINITY PLACE NEW YORK, NY 10006 Project No. 14584-C790

Analysis Date 10/04/01 Analyst E. A. CHARTERS Batch No. 19579

1 Field No. 21	Stereoscopic Exam	PLM Optical Properties	Asbestos Results PLM %	Other Fibrous %	Non Fibrous %	Gravimetric (NOB) Results %
Gravimetric (NOB) Required ☐	Color ____ Texture ____	Morphology ____ Extinction ____	____ Chrysotile	✓ Cellulose	✓ Mineral Filler	____ Organic
Recommended ☐	Homogenity ____	RI ∥ ____ 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: DUST SAMPLE			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 ____ Texture ____	Morphology ____ Extinction ____	____ Chrysotile	✓ Cellulose	✓ Mineral Filler	____ Organic
Recommended ☐	Homogenity ____	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: DUST SAMPLE			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 ____ Texture ____	Morphology ____ Extinction ____	____ Chrysotile	✓ Cellulose	✓ Mineral Filler	____ Organic
Recommended ☐	Homogenity ____	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: DUST SAMPLE			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 ____ Texture ____	Morphology ____ Extinction ____	____ Chrysotile	✓ Cellulose	✓ Mineral Filler	____ Organic
Recommended ☐	Homogenity ____	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: DUST SAMPLE			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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ELAP 10879
Microscope OLYP BH-2

MS FOR ECONOMICS & FINANCE (M833)

Client / Project NYC-BOE / 100 TRINITY PLACE, NEW YORK, NY 10006 Project No. 14584-C796

Analysis Date 10/04/01 Analyst E. A. CUARTEROS Batch No. 19579

	Stereoscopic Exam	PLM Optical Properties	Asbestos Results PLM %	Other Fibrous %	Non Fibrous %	Gravimetric (NOB) Results %
1 Field No. 25	Color ____ Texture ____	Morphology ____ Extinction ____	☐ Chrysotile	☑ Cellulose	☑ Mineral Filler	____ Organic
Gravimetric (NOB) Required ☐	Homogenity ____	RI ∥ ____ RI ⊥ ____	☐ Amosite	☑ Fiberglass	____ Organic Binders	____ Residue
Recommended ☐	# of Layers ____ Asbestos ☐ ☒	DS Color ____ Color,Pleo ____	☐ Other	____ Other	____ Vermiculite	____ Carbonate
Gravimetric PREP ☐	Color of Layer ____ Detected Yes No	Biref ____ Sign ____			____ Other	____ Other
Gravimetric (NOB) PLM ☐	Comments: DUST SAMPLE			Q.C. ☐		____ Asbestos
Gravimetric (NOB) TEM ☐	Method: ☐ ELAP + EPA¹ ☐ ELAP ☐ EPA¹ ☒ OTHER ☐ SCANNING OPTION: ELAP (P.C.) & EPA¹ First 4 preps. Asbestos = 0					
POINT COUNT RESULTS ON THE BACK						
2 Field No. 26	Color ____ Texture ____	Morphology ____ Extinction ____	☐ Chrysotile	☑ Cellulose	☑ Mineral Filler	____ Organic
Gravimetric (NOB) Required ☐	Homogenity ____	RI ∥ ____ RI ⊥ ____	☐ Amosite	☑ Fiberglass	____ Organic Binders	____ Residue
Recommended ☐	# of Layers ____ Asbestos ☐ ☒	DS Color ____ Color,Pleo ____	☐ Other	____ Other	____ Vermiculite	____ Carbonate
Gravimetric PREP ☐	Color of Layer ____ Detected Yes No	Biref ____ Sign ____			____ Other	____ Other
Gravimetric (NOB) PLM ☐	Comments: DUST SAMPLE			Q.C. ☐		____ Asbestos
Gravimetric (NOB) TEM ☐	Method: ☐ ELAP + EPA¹ ☐ ELAP ☐ EPA¹ ☒ OTHER ☐ SCANNING OPTION: ELAP (P.C.) & EPA¹ First 4 preps. Asbestos = 0					
POINT COUNT RESULTS ON THE BACK						
3 Field No. 27	Color ____ Texture ____	Morphology ____ Extinction ____	☐ Chrysotile	☑ Cellulose	☑ Mineral Filler	____ Organic
Gravimetric (NOB) Required ☐	Homogenity ____	RI ∥ ____ RI ⊥ ____	☐ Amosite	☑ Fiberglass	____ Organic Binders	____ Residue
Recommended ☐	# of Layers ____ Asbestos ☐ ☒	DS Color ____ Color,Pleo ____	☐ Other	____ Other	____ Vermiculite	____ Carbonate
Gravimetric PREP ☐	Color of Layer ____ Detected Yes No	Biref ____ Sign ____			____ Other	____ Other
Gravimetric (NOB) PLM ☐	Comments: DUST SAMPLE			Q.C. ☐		____ Asbestos
Gravimetric (NOB) TEM ☐	Method: ☐ ELAP + EPA¹ ☐ ELAP ☐ EPA¹ ☒ OTHER ☐ SCANNING OPTION: ELAP (P.C.) & EPA¹ First 4 preps. Asbestos = 0					
POINT COUNT RESULTS ON THE BACK						
4 Field No. 28	Color ____ Texture ____	Morphology ____ Extinction ____	☐ Chrysotile	☑ Cellulose	☑ Mineral Filler	____ Organic
Gravimetric (NOB) Required ☐	Homogenity ____	RI ∥ ____ RI ⊥ ____	☐ Amosite	☑ Fiberglass	____ Organic Binders	____ Residue
Recommended ☐	# of Layers ____ Asbestos ☐ ☒	DS Color ____ Color,Pleo ____	☐ Other	____ Other	____ Vermiculite	____ Carbonate
Gravimetric PREP ☐	Color of Layer ____ Detected Yes No	Biref ____ Sign ____			____ Other	____ Other
Gravimetric (NOB) PLM ☐	Comments: DUST SAMPLE			Q.C. ☐		____ Asbestos
Gravimetric (NOB) TEM ☐	Method: ☐ ELAP + EPA¹ ☐ ELAP ☐ EPA¹ ☒ OTHER ☐ SCANNING OPTION: ELAP (P.C.) & EPA¹ First 4 preps. Asbestos = 0					
POINT COUNT RESULTS ON THE BACK						

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NVLAP 101187
ELAP 10879
Microscope OLYP BH-2

HS FOR ECONOMICS & FINANCE (M833)

Client / Project NYC-BOE / 100 TRINITY PLACE NEW YORK, NY 10006 Project No. 14584-C796

Analysis Date 10/04/01 Analyst E. G. CANTEROS Batch No. 19579

1 Field No. 29	Stereoscopic Exam	PLM Optical Properties	Asbestos Results PLM %	Other Fibrous %	Non Fibrous %	Gravimetric (NOB) Results %
Gravimetric (NOB) Required ☐	Color ____ Texture ____	Morphology ____ Extinction ____	____ Chrysotile	✓ Cellulose	✓ Mineral Filler	____ Organic
Recommended ☐	Homogenity ____	RI ∥ ____ 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: DUST SAMPLE			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 ____ Texture ____	Morphology ____ Extinction ____	____ Chrysotile	✓ Cellulose	✓ Mineral Filler	____ Organic
Recommended ☐	Homogenity ____	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: DUST SAMPLE			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 ____ Texture ____	Morphology ____ Extinction ____	____ Chrysotile	✓ Cellulose	✓ Mineral Filler	____ Organic
Recommended ☐	Homogenity ____	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: DUST SAMPLE			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 ____ Texture ____	Morphology ____ Extinction ____	____ Chrysotile	✓ Cellulose	✓ Mineral Filler	____ Organic
Recommended ☐	Homogenity ____	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: DUST SAMPLE			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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HS FOR ECONOMICS & FINANCE (M833)

Client / Project NYC-BOE / 100 TRINITY PLACE, NEW YORK, NY 10006 Project No. 14584-C796

Analysis Date 10/04/01 Analyst E. A. CARTEROS Batch No. 19579

	Stereoscopic Exam	PLM Optical Properties	Asbestos Results PLM %	Other Fibrous %	Non Fibrous %	Gravimetric (NOB) Results %
1 Field No. 33	Color ____ Texture ____	Morphology ____ Extinction ____	____ Chrysotile	✓ Cellulose	✓ Mineral Filler	____ Organic
Gravimetric (NOB) Required ☐	Homogenity ____	RI ∥ ____ RI ⊥ ____	____ Amosite	✓ Fiberglass	____ Organic Binders	____ Residue
Recommended ☐	# of Layers ____ Asbestos ☐ ☒	DS Color ____ Color,Pleo ____	____ Other	____ Other	____ Vermiculite	____ Carbonate
Gravimetric PREP ☐					____ Other	____ Other
Gravimetric (NOB) PLM ☐	Color of Layer ____ Detected Yes No	Biref ____ Sign ____				____ Asbestos
Gravimetric (NOB) TEM ☐	Comments: DUST SAMPLE			Q.C. ☐		
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 ____ Texture ____	Morphology ____ Extinction ____	____ Chrysotile	✓ Cellulose	✓ Mineral Filler	____ Organic
Gravimetric (NOB) Required ☐	Homogenity ____	RI ∥ ____ RI ⊥ ____	____ Amosite	✓ Fiberglass	____ Organic Binders	____ Residue
Recommended ☐	# of Layers ____ Asbestos ☐ ☒	DS Color ____ Color,Pleo ____	____ Other	____ Other	____ Vermiculite	____ Carbonate
Gravimetric PREP ☐					____ Other	____ Other
Gravimetric (NOB) PLM ☐	Color of Layer ____ Detected Yes No	Biref ____ Sign ____				____ Asbestos
Gravimetric (NOB) TEM ☐	Comments: DUST SAMPLE			Q.C. ☐		
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 ____ Texture ____	Morphology ____ Extinction ____	____ Chrysotile	✓ Cellulose	✓ Mineral Filler	____ Organic
Gravimetric (NOB) Required ☐	Homogenity ____	RI ∥ ____ RI ⊥ ____	____ Amosite	✓ Fiberglass	____ Organic Binders	____ Residue
Recommended ☐	# of Layers ____ Asbestos ☐ ☒	DS Color ____ Color,Pleo ____	____ Other	____ Other	____ Vermiculite	____ Carbonate
Gravimetric PREP ☐					____ Other	____ Other
Gravimetric (NOB) PLM ☐	Color of Layer ____ Detected Yes No	Biref ____ Sign ____				____ Asbestos
Gravimetric (NOB) TEM ☐	Comments: DUST SAMPLE			Q.C. ☐		
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 ____ Texture ____	Morphology ____ Extinction ____	____ Chrysotile	✓ Cellulose	✓ Mineral Filler	____ Organic
Gravimetric (NOB) Required ☐	Homogenity ____	RI ∥ ____ RI ⊥ ____	____ Amosite	✓ Fiberglass	____ Organic Binders	____ Residue
Recommended ☐	# of Layers ____ Asbestos ☐ ☒	DS Color ____ Color,Pleo ____	____ Other	____ Other	____ Vermiculite	____ Carbonate
Gravimetric PREP ☐					____ Other	____ Other
Gravimetric (NOB) PLM ☐	Color of Layer ____ Detected Yes No	Biref ____ Sign ____				____ Asbestos
Gravimetric (NOB) TEM ☐	Comments: DUST SAMPLE			Q.C. ☐		
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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ELAP 10878
Microscope OLYP BH 2

HS FOR ECONOMICS & FINANCE (M833)

Client / Project NYC-BOE / 100 TRINITY PLACE, NEW YORK, NY 10006 Project No. 14584-C796

Analysis Date 10/ /01 Analyst _____ Batch No. 19579

1 Field No. 37	Stereoscopic Exam	PLM Optical Properties	Asbestos Results PLM %	Other Fibrous %	Non Fibrous %	Gravimetric (NOB) Results %
Gravimetric (NOB) Required ☐	Color _____ Texture _____	Morphology _____ Extinction _____	___ Chrysotile	✓ Cellulose	✓ Mineral Filler	___ Organic
Recommended ☐	Homogenity _____	RI ∥ _____ 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: DUST SAMPLE			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 _____ Texture _____	Morphology _____ Extinction _____	___ Chrysotile	✓ Cellulose	✓ Mineral Filler	___ Organic
Recommended ☐	Homogenity _____	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: DUST SAMPLE			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 _____ Texture _____	Morphology _____ Extinction _____	___ Chrysotile	✓ Cellulose	✓ Mineral Filler	___ Organic
Recommended ☐	Homogenity _____	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: DUST SAMPLE			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 _____ Texture _____	Morphology _____ Extinction _____	___ Chrysotile	✓ Cellulose	✓ Mineral Filler	___ Organic
Recommended ☐	Homogenity _____	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: DUST SAMPLE			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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MS FOR ECONOMICS & FINANCE (M833)

Client / Project NYC-BOE / 100 TRINITY PLACE, NEW YORK, NY 10006 Project No. 14584-C790

Analysis Date 10/04/01 Analyst E. M. CARSTENS Batch No. 19579

1 Field No. 41	Stereoscopic Exam	PLM Optical Properties	Asbestos Results PLM %	Other Fibrous %	Non Fibrous %	Gravimetric (NOB) Results %
Gravimetric (NOB) Required ☐	Color ____ Texture ____	Morphology ____ Extinction ____	____ Chrysotile	✓ Cellulose	✓ Mineral Filler	____ Organic
Recommended ☐	Homogenity ____	RI ∥ ____ 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: DUST SAMPLE			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. 42	Stereoscopic Exam	PLM Optical Properties	Asbestos Results PLM %	Other Fibrous %	Non Fibrous %	Gravimetric (NOB) Results %
Gravimetric (NOB) Required ☐	Color ____ Texture ____	Morphology ____ Extinction ____	____ Chrysotile	✓ Cellulose	✓ Mineral Filler	____ Organic
Recommended ☐	Homogenity ____	RI ∥ ____ 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: DUST SAMPLE			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. 43	Stereoscopic Exam	PLM Optical Properties	Asbestos Results PLM %	Other Fibrous %	Non Fibrous %	Gravimetric (NOB) Results %
Gravimetric (NOB) Required ☐	Color ____ Texture ____	Morphology ____ Extinction ____	____ Chrysotile	✓ Cellulose	✓ Mineral Filler	____ Organic
Recommended ☐	Homogenity ____	RI ∥ ____ 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: DUST SAMPLE			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. 44	Stereoscopic Exam	PLM Optical Properties	Asbestos Results PLM %	Other Fibrous %	Non Fibrous %	Gravimetric (NOB) Results %
Gravimetric (NOB) Required ☐	Color ____ Texture ____	Morphology ____ Extinction ____	____ Chrysotile	✓ Cellulose	✓ Mineral Filler	____ Organic
Recommended ☐	Homogenity ____	RI ∥ ____ 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: DUST SAMPLE			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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HS FOR ECONOMICS & FINANCE (M833)

Client / Project NYC-BOE/100 TRINITY PLACE, NEW YORK, NY 10006 Project No. 14584-C790

Analysis Date 10/04/01 Analyst E. A. CHARTERS Batch No. 19579

1 Field No. 45	Stereoscopic Exam	PLM Optical Properties	Asbestos Results PLM %	Other Fibrous %	Non Fibrous %	Gravimetric (NOB) Results %
Gravimetric (NOB) Required ☐	Color ____ Texture ____	Morphology ____ Extinction ____	____ Chrysotile	✓ Cellulose	✓ Mineral Filler	____ Organic
Recommended ☐	Homogenity ____	RI ∥ ____ 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: Dust Sample			a.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. 46	Stereoscopic Exam	PLM Optical Properties	Asbestos Results PLM %	Other Fibrous %	Non Fibrous %	Gravimetric (NOB) Results %
Gravimetric (NOB) Required ☐	Color ____ Texture ____	Morphology ____ Extinction ____	____ Chrysotile	✓ Cellulose	✓ Mineral Filler	____ Organic
Recommended ☐	Homogenity ____	RI ∥ ____ 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: Dust Sample			a.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. 47	Stereoscopic Exam	PLM Optical Properties	Asbestos Results PLM %	Other Fibrous %	Non Fibrous %	Gravimetric (NOB) Results %
Gravimetric (NOB) Required ☐	Color ____ Texture ____	Morphology ____ Extinction ____	____ Chrysotile	✓ Cellulose	✓ Mineral Filler	____ Organic
Recommended ☐	Homogenity ____	RI ∥ ____ 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: Dust Sample			a.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. 48	Stereoscopic Exam	PLM Optical Properties	Asbestos Results PLM %	Other Fibrous %	Non Fibrous %	Gravimetric (NOB) Results %
Gravimetric (NOB) Required ☐	Color ____ Texture ____	Morphology ____ Extinction ____	____ Chrysotile	✓ Cellulose	✓ Mineral Filler	____ Organic
Recommended ☐	Homogenity ____	RI ∥ ____ 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: Dust Sample			a.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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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

MS FOR ECONOMICS & FINANCE (M833)

Client / Project NYC-BOE/100 TRINITY PLACE, NEW YORK, NY 10006 Project No. 14584-C796

Analysis Date 12/04/01 Analyst E. A. CHARTERS Batch No. 19579

1 Field No. 49	Stereoscopic Exam	PLM Optical Properties	Asbestos Results PLM %	Other Fibrous %	Non Fibrous %	Gravimetric (NOB) Results %
Gravimetric (NOB) Required ☐	Color ____ Texture ____	Morphology ____ Extinction ____	____ Chrysotile	✓ Cellulose	✓ Mineral Filler	____ Organic
Recommended ☐	Homogenity ____	RI ∥ ____ 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: Dust Sample			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. 50	Stereoscopic Exam	PLM Optical Properties	Asbestos Results PLM %	Other Fibrous %	Non Fibrous %	Gravimetric (NOB) Results %
Gravimetric (NOB) Required ☐	Color ____ Texture ____	Morphology ____ Extinction ____	____ Chrysotile	✓ Cellulose	✓ Mineral Filler	____ Organic
Recommended ☐	Homogenity ____	RI ∥ ____ 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: Dust Sample			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. 51	Stereoscopic Exam	PLM Optical Properties	Asbestos Results PLM %	Other Fibrous %	Non Fibrous %	Gravimetric (NOB) Results %
Gravimetric (NOB) Required ☐	Color ____ Texture ____	Morphology ____ Extinction ____	____ Chrysotile	✓ Cellulose	✓ Mineral Filler	____ Organic
Recommended ☐	Homogenity ____	RI ∥ ____ 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: Dust Sample			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. 52	Stereoscopic Exam	PLM Optical Properties	Asbestos Results PLM %	Other Fibrous %	Non Fibrous %	Gravimetric (NOB) Results %
Gravimetric (NOB) Required ☐	Color ____ Texture ____	Morphology ____ Extinction ____	____ Chrysotile	✓ Cellulose	✓ Mineral Filler	____ Organic
Recommended ☐	Homogenity ____	RI ∥ ____ 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: Dust Sample			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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