February 7, 2002

Mr. Bernard P. Orlan
Director, Environmental Health & Safety
New York City Board of Education
28-11 Queens Plaza North
Long Island City, NY 11101-4008

Re: **Summary of wipe and air sampling for asbestos, respirable particulates concentrations, Mercury, PCBs, Silica, Fiberglass, Hydrocarbons, Dioxins, Metals, and cyanide @ P.S. / I.S. 89M**

Dear Mr. Orlan:

At you request, ATC Associates Inc. (ATC) is pleased to provide you with the summary of results for the wipe and air sampling performed at P.S. / I.S. 89 M. All the results were tabulated in the attached tables.

It is our pleasure to provide these wipe/air sampling services to the New York City Board of Education. If you have any questions about this report, please call (212) 353-8280, extension 261 or 298.

Sincerely,
ATC ASSOCIATES INC.

Arnel Javal
Project Manager

Reviewed by:

Andreas C. Andreou
Senior Regional Manager

P.S. / I.S. 89M – AMBIENT AREA AIR TEM, SETTLED DUST & BULK SAMPLE RESULTS					
	TEM Ambient Air Sampling (Structure / mm^2)		Settled Dust Bulk sampling for Asbestos		Bulk and Magic scotch tape sampling for asbestos (Playground and soil areas)
Date	# of Sample	Results of TEM Asbestos Analysis (structure/mm^2)	# of Sample	Results of Settled Dust Bulk Sample for Asbestos	
11/02/01			39	Trace or Non Detected	33 Bulk Samples = Trace or Non Detected 29 Scotch Magic Tape Samples = Trace or Non Detected
			6	>1% Asbestos (settled dust in soil found outside the building)	
11/05/01	25	One structure (22.24 Structure/mm^2) was found in each of the following locations: Room 502, room 402, 1st Floor corridor, and corridor adj. to room 143.			
12/11/01			6	2 samples = Trace amount of Asbestos 4 Samples = No Asbestos Fibers found	
01/11/02					11 bulk samples = Non Detected 5 Scotch Magic Tape Sample = Non Detected
01/12/02	4	No Structures Detected			
01/16/02	12	One structure (22.24 Structure/mm^2) found in one sample in the north playground and another structure (22.24 structure/mm^2) found on the 3rd floor hallway southside.			
01/17/02	12	No Structures Detected			
01/18/02	12	No Structures Detected			
01/19/02	6	No Structures Detected			
01/21/02	11	No Structures Detected			
01/22/02	16	No Structures Detected			
01/24/02	15	No Structures Detected			
01/25/02	16	One structure (22.24 Structure/mm^2) found in one sample in the cafet.			
01/26/02	16	No Structures Detected			
01/27/02	16	One structure (22.24 Structure/mm^2) found in one sample on the roof.			
01/28/02	16	No Structures Detected			
01/29/02	16	No Structures Detected			
01/30/02	16	No Structures Detected			
01/31/02	16	No Structures Detected			
02/01/02	16	No Structures Detected			
02/02/02	15	No Structures Detected			
02/03/02	16	No Structures Detected			
2/04/02	16	No Structures Detected			
2/05/02	16	No Structures Detected			
2/06/02	16	No Structures Detected			

PS/IS 89 M – RESPIRABLE PARTICULATES CONCENTRATIONS

Date	Type of sampling	No. of readings	Number of Indoor readings >40 to ≤65 µg/m³ (24 hrs average)	Number of Indoor readings >65 µg/m³ (24 hrs average)	Range of Indoor respirable particulates concentration (µg/m³)	Average Indoor respirable particulates concentration (µg/m³)	Range of outdoor respirable particulates concentration (µg/m³)	Average outdoor respirable particulates concentration (µg/m³)
1/15-16/02	24-hour monitoring	24	0	0	10 – 34	20	7 – 40	15
1/11-12/02	24-hour monitoring using Dust-Trak & Gravimetric samplers	4			12 and 16 using Dust Trak <6.94 and 9.03 MEM			
1/11/02	Direct Readings	61	0	0	6 – 18	9	36	
1/15/02	Direct Readings	10	3	0	30 – 60	46	80 - 82	80
1/16/02	Direct Readings	30	0	0	4 – 11	8	10 - 13	11
1/17/02	Direct Readings	50	2	0	39 – 44	21	41 - 46	43
1/18/02	Direct Readings	50	0	0	18 – 32	24	35 and 36	
1/21/02	Direct Readings	61	17	0	29 – 61	40	70 and 71	
1/22/02	Direct Readings	73	0	0	8 – 38	20	19 – 61	39
1/23/02	Direct Readings	80	0	0	8 – 17	11	12 – 20	16
1/24/02	Direct Readings	80	44	0	21 – 63	42	54 – 83	66
1/25/02	Direct Readings	80	0	0	6 – 28	13	9 – 30	18
1/25-26/02	24-hour monitoring using Dust-Trak & Gravimetric samplers	4			12 and 18 using Dust Trak 5.4 and 10 MEM			
1/28/02	Direct Readings	93	28	1	21 – 85	42	30 – 106	91 (AM) 28 (PM)
1/29/02	Direct Readings	86	20	0	25 – 49	38	38 – 91	83 (AM) 45 (PM)
1/30/02	Direct Readings	82	28	0	30 – 60 (AM) 7 – 17(PM)	44 (AM) 12 (PM)	63 – 90 (AM) 18 – 35 (PM)	73 (AM) 25 (PM)
1/30-31/02	24-hour monitoring using Gravimetric sampler	1			11.8 using a gravimetric sampler			

PS/IS 89 M – RESPIRABLE PARTICULATES CONCENTRATIONS

Date	Type of sampling	No. of readings	Number of indoor readings >40 to ≤65 µg/m³ (24 hrs average)	Number of indoor readings >65 µg/m³ (24 hrs average)	Range of indoor respirable particulates concentration (µg/m³)	Average indoor respirable particulates concentration (µg/m³)	Range of outdoor respirable particulates concentration (µg/m³)	Average outdoor respirable particulates concentration (µg/m³)
1/31/02	Direct Readings	82	0	0	13 – 23 (AM) 16 – 29 (PM)	18 (AM) 21 (PM)	25 – 39 (AM) 35 – 42 (PM)	29 (AM) 38 (PM)
2/01/02	Direct Readings	82	19	0	12 – 29 (AM) 46 – 59 (PM)	23 (AM) 49 (PM)	39 – 45 (AM) 88 – 91 (PM)	41 (AM) 90 (PM)
1/31/02 – 2/1/02	24-hour monitoring using Dust-Trak & Gravimetric samplers	4			18 and 25 using Dust Trak <0.0035 and 13.9 MEM			
2/04/02	Direct Readings	80	0	0	18 – 35(AM) 9 – 22 (PM)	27 (AM) 15 (AM)	48 – 52 (AM) 24 – 31 (PM)	50 (AM) 28 (PM)
2/1-2/02	24-hour monitoring using Gravimetric sampler	1			<0.00347 using a gravimetric sampler			
2/2-3/02	24-hour monitoring using Dust-Trak & Gravimetric samplers	4			12 and 12 using Dust Trak 6.25 and 6.94 MEM			
2/05/02	Direct Readings	80	0	0	6 – 19 (AM) 6 – 13 (PM	12 (AM) 9 (PM)	13 – 28 (AM) 9 – 13 (PM)	23 (AM) 10 (PM)
2/06/02	Direct Readings	80	0	0	11 – 34 (AM) 17 – 30 (PM)	24 (AM) 23 (AM)	45 – 53 (AM) 38 – 44 (AM)	49 (AM) 42 (PM)

PUBLIC/INTERMEDIATE SCHOOL 89M

Date	LEAD-IN-WIPE-DUST SAMPLE			MERCURY	PCB'S AND CYANIDE	SILICA (RESPIRABLE DUST)		FIBER GLASS	TVOC AND POLYNUCLEAR AROMATIC HYDROCARBONS (PAH)		DIOXINS SAMPLES		METALS	
	# of Sample	Lead Conc. On Floor (ug/ft²)	Lead Conc. On Window Sill (ug/ft²)	Mercury Conc. (4-samples per day) (mg/m³)	Concentration (3 samples per day) (ug/cm2)	Range of Indoor Conc. (mg/m³)	Range of Outdoor Conc. (mg/m³)	Results	Indoor Readings	Outdoor Reading	Indoor Surfaces Range of Conc. (ug/m²)	Air Plenum Conc. (ng/m³)	Indoor Readings (mg/m³)	Outdoor Reading (mg/m³)
2/5/02				Non Detected at levels greater than detected in the blank.	3 PCB samples = Below Limit of Detection (0.5 ug/Sample) 1 Cyanide sample = Non Detected				One Aromatic Hydrocarbon Sample: 2-Methylnaphthalene = 0.000345 mg/m³ Naphthalene = 0.00033 mg/m3 2 TVOC Samples: Benzene = 1.9 ppb Ethylbenzene = 0.7 to 1.9 ppb Heptane = 0.9 ppb Methylene Chloride = ND Toluene = 1.3 to 10.4 ppb Xylenes = 12 ppb	Two Aromatic Hydrocarbon Sample: 2-Methylnaphthalene = 0.000028 mg/m³ Naphthalene = 0.00029 mg/m3 OSHA PEL for PAHs = 0.2 mg/m³ 2 TVOC Samples: Benzene = 0.6 ppb Ethylbenzene = 0.4 ppb Heptane = ND Methylene-Chloride = 0.9 to 2.7 ppb Toluene = 0.9 to 1.5 ppb Xylenes = ND	2 indoor air samples = 0.00006013 to 0.0000923	2 outdoor air samples = 0.00001039 to 0.00006043	Copper = 0.171 to 1.02 ug/m³ in rooms 202 and cafeteria hallway	Copper = 0.223 ug/m³ in rest playground
2/5/02					10 PCBs =below reporting limits of 2 micrograms per sample				2 PAH = below the reporting limits of 5 nanograms per sample		10 indoor wipe samples = 0.0010 to 0.832		Detectable levels of 10 metals were found in the samples from 10 interior surfaces.	

PUBLIC/INTERMEDIATE SCHOOL 89M														
	LEAD-IN-WIPE-DUST SAMPLE			MERCURY	PCB'S AND CYANIDE	SILICA (RESPIRABLE DUST)		FIBER GLASS	TVOC AND POLYNUCLEAR AROMATIC HYDROCARBONS (PAH)		DIOXINS SAMPLES		METALS	
Date	# of Sample	Lead Conc. On Floor (ug/ft²)	Lead Conc. On Window Sill (ug/ft²)	Mercury Conc. (4 samples per day) (mg/m³)	Concentration (3 samples per day) (ug/cm2)	Range of Indoor Conc. (mg/m³)	Range of Outdoor Conc. (mg/m³)	Results	Indoor Readings	Outdoor Reading	Indoor Surfaces Range of Conc. (ng/m²)	Air Plenum Conc. (ng/m³)	Indoor Readings (mg/m³)	Outdoor Reading (mg/m³)
01/03/2002	30	Below guidance level	Below guidance level			2 Air Samples = Below Detection Limit	1 Sample = 0.0159 (Above detection limit)	16 samples = Non Detected	2 TVOC Samples Benzene = 0.49 and 0.51 ppb Ethylbenzene = BDL Methylene Chloride = 0.92 and 2.25 ppb Toluene = 0.61 to 0.62 ppb Xylenes = 0.28 and 0.26 ppb	1 TVOC Sample Benzene = 0.95 ppb Ethylbenzene = 0.34 ppb Methylene Chloride = BDL Toluene = 1.32 ppb Xylenes = 0.90 ppb				Al = 18.3 to 26 ug/m³ Cr = 0.23 to 0.278 ug/m³ Cu = 1.23 to 2.48 ug/m³ Fe = 5.30 to 858 ug/m³ Mg = 30.8 to 83.3 ug/m³ Mn = 1.82 to 3.75 ug/m³ Zn = 3.23 to 11.6 ug/m³
01/25/02	10	Below Guidance Level	Below Guidance Level	Non detected above detection limit.	PCBs = Below reporting limits of 2.0 ug/sample			1 sample along South end, 2nd floor Hallway = 2% fiberglass. 4 samples = less than 1% fiberglass fibers.	Non detected above detection limit.	Non detected above detection limit			Al = 1.24 (1st Flr Hallway) Cr = 0.89 (South Playground)	
01/29/02								Non detected (3 follow up samples, after clean up).					Blank = 0.491	
01/31/02	30	Below Guidance Level	Below Guidance Level					8 samples = <1% fiberglass						

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 10870
Microscope OLYP BH-2

Client / Project NYC - BOE / PS 89 M

Project No. 14584-0819

Analysis Date 11/02/01 Analyst YReye

Batch No. 19693

1 Field No. 21	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 ____ Homogeneity ____ # of Layers ____ Color of Layer ____ Asbestos 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
POINT COUNT Results on the back	Comments:			Q.C. ☐		
	Method: ☐ EPA ☐ ELAP ☐ EPA ☑ OTHER ☐ SCANNING OPTION: ELAP (P.C.) & EPA 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 ☐ Recommended ☐ Gravimetric PREP ☐ Gravimetric (NOB) PLM ☐ Gravimetric (NOB) TEM ☐	Color ____ Texture ____ Homogeneity ____ # of Layers ____ Color of Layer ____ Asbestos 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
POINT COUNT Results on the back	Comments:			Q.C. ☐		
	Method: ☐ EPA ☐ ELAP ☐ EPA ☑ OTHER ☐ SCANNING OPTION: ELAP (P.C.) & EPA 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 ☐ Recommended ☐ Gravimetric PREP ☐ Gravimetric (NOB) PLM ☐ Gravimetric (NOB) TEM ☐	Color ____ Texture ____ Homogeneity ____ # of Layers ____ Color of Layer ____ Asbestos 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
POINT COUNT Results on the back	Comments:			Q.C. ☐		
	Method: ☐ EPA ☐ ELAP ☐ EPA ☑ OTHER ☐ SCANNING OPTION: ELAP (P.C.) & EPA 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 ☐ Recommended ☐ Gravimetric PREP ☐ Gravimetric (NOB) PLM ☐ Gravimetric (NOB) TEM ☐	Color ____ Texture ____ Homogeneity ____ # of Layers ____ Color of Layer ____ Asbestos 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
POINT COUNT Results on the back	Comments:			Q.C. ☐		
	Method: ☐ EPA ☐ ELAP ☐ EPA ☑ OTHER ☐ SCANNING OPTION: ELAP (P.C.) & EPA First 4 preps. Asbestos = 0					

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NVLAP 101007
ELAP 10851
Microscope OLYT OH-2

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

Analysis Date 11/02/01 Analyst E. A. Cuarteros Batch No. 19694

1 Field No. 13	Stereoscopic Exam	PLM Optical Properties	Asbestos Results PLM %	Other Fibrous %	Non Fibrous %	Gravimetric (NOB) Results %
Gravimetric (NOB) Required ☐	Color Brown Texture F	Morphology Way Extinction P	0.25 Chrysotile	13.75 Cellulose	26 Mineral Filler	___ Organic
Recommended ☒	Homogenity Y	RI ∥ 1.549 RI ⊥ 1.556	___ Amosite	60 Fiberglass	___ Organic Binders	___ Residue
Gravimetric PREP ☐	# of Layers ___ Asbestos ☒ ☐	OS Color B/M Color,Pleo W	___ Other	___ Other	___ Vermiculite	___ Carbonate
Gravimetric (NOB) PLM ☐	Color of Layer ___ Detected Yes No	Biref L 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 grps. 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 Brown Texture Gr.	Morphology ___ Extinction ___	___ Chrysotile	Tr Cellulose	100 Mineral Filler	___ Organic
Recommended ☐	Homogenity Y	RI ∥ ___ RI ⊥ ___	___ Amosite	___ Fiberglass	___ Organic Binders	___ Residue
Gravimetric PREP ☐	# of Layers ___ Asbestos ☐ ☒	OS 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 grps. 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 Brown Texture F	Morphology Way Extinction P	Tr Chrysotile	15 Cellulose	27 Mineral Filler	___ Organic
Recommended ☒	Homogenity Y	RI ∥ 1.549 RI ⊥ 1.556	___ Amosite	58 Fiberglass	___ Organic Binders	___ Residue
Gravimetric PREP ☐	# of Layers ___ Asbestos ☒ ☐	OS Color B/M Color,Pleo W	___ Other	___ Other	___ Vermiculite	___ Carbonate
Gravimetric (NOB) PLM ☐	Color of Layer ___ Detected Yes No	Biref L 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 grps. 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 Brown Texture F	Morphology Way Extinction P	0.75 Chrysotile	19.25 Cellulose	20 Mineral Filler	___ Organic
Recommended ☒	Homogenity Y	RI ∥ 1.549 RI ⊥ 1.556	___ Amosite	60 Fiberglass	___ Organic Binders	___ Residue
Gravimetric PREP ☐	# of Layers ___ Asbestos ☒ ☐	OS Color B/M Color,Pleo W	___ Other	___ Other	___ Vermiculite	___ Carbonate
Gravimetric (NOB) PLM ☐	Color of Layer ___ Detected Yes No	Biref L 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 grps. Asbestos = 0					

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NVLAP 101167
ELAP 10870
Microscope OLYP BH-2

Client / Project NYC - BOE / P.S 89 M

Project No. 14584-0819

Analysis Date 11/02/01 Analyst Reyes

Batch No. 19693

1 Field No. 25	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 ____ Homogeneity ____ # 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
POINT COUNT (Results on the back)	Comments:			Q.C. ☐		
	Method: ☐ EMP + EPA¹ ☐ EMP ☐ EPA¹ ☑ OTHER ☐ SCANNING OPTION: EMP (P.C.) & EPA¹ First 4 pnts. Asbestos = 0					

2 Field No. 26	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 ____ Homogeneity ____ # 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
POINT COUNT (Results on the back)	Comments:			Q.C. ☐		
	Method: ☐ EMP + EPA¹ ☐ EMP ☐ EPA¹ ☑ OTHER ☐ SCANNING OPTION: EMP (P.C.) & EPA¹ First 4 pnts. Asbestos = 0					

3 Field No. 27	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 ____ Homogeneity ____ # 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
POINT COUNT (Results on the back)	Comments:			Q.C. ☐		
	Method: ☐ EMP + EPA¹ ☐ EMP ☐ EPA¹ ☑ OTHER ☐ SCANNING OPTION: EMP (P.C.) & EPA¹ First 4 pnts. Asbestos = 0					

4 Field No. 28	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 ____ Homogeneity ____ # 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
POINT COUNT (Results on the back)	Comments:			Q.C. ☐		
	Method: ☐ EMP + EPA¹ ☐ EMP ☐ EPA¹ ☑ OTHER ☐ SCANNING OPTION: EMP (P.C.) & EPA¹ First 4 pnts. Asbestos = 0					

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NVLAP 101197
ELAP 10870
Microscope OLYP BH-2

Client / Project NYC - BOE / P.S. 89M

Project No. 14584-0819

Analysis Date 11/02/01 Analyst URey

Batch No. 19693

1 Field No. 29	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 ____ Homogeneity ____ # 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
POINT COUNT RESULTS ON THE BACK	Comments:			Q.C. ☐		
	Method: ☐ ELAP + EPA ☐ ELAP ☐ EPA ☑ Grids ☐ SCANNING OPTION: ELAP (P.C.) & EPA Fast 4 preps. Asbestos = 0					

2 Field No.	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 ____ Homogeneity ____ # 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
POINT COUNT RESULTS ON THE BACK	Comments:			Q.C. ☐		
	Method: ☐ ELAP + EPA ☐ ELAP ☐ EPA ☐ Other ☐ SCANNING OPTION: ELAP (P.C.) & EPA Fast 4 preps. Asbestos = 0					

Field No.	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 ____ Homogeneity ____ # 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
POINT COUNT RESULTS ON THE BACK	Comments:			Q.C. ☐		
	Method: ☐ ELAP + EPA ☐ ELAP ☐ EPA ☐ Other ☐ SCANNING OPTION: ELAP (P.C.) & EPA Fast 4 preps. Asbestos = 0					

Field No.	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 ____ Homogeneity ____ # 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
POINT COUNT RESULTS ON THE BACK	Comments:			Q.C. ☐		
	Method: ☐ ELAP + EPA ☐ ELAP ☐ EPA ☐ Other ☐ SCANNING OPTION: ELAP (P.C.) & EPA Fast 4 preps. Asbestos = 0					

ATC ASSOCIATES INC.

104 East 25th Street
New York, New York 10010
212.353.8280
Fax 212.353.8306

January 11th, 2002

Mr. Donald Santo
NYC School Construction Authority
IEH Department
30-30 Thomson Avenue
Long Island City, NY 11101

Re: I.S. 89-M
201 Warren Street
NY, NY 10007

Dear Mr. Santo:

ATC Associates Inc has conducted aggressive air sampling on the 1st, 2nd, 3rd, 4th, 5th floors and the 6th floor mechanical room. at the above referenced school on January 10th, 2002. A total of 49 TEM Air Samples were collected. The analysis was performed in strict conformance with the methodology of the AHERA Final Rule (40 CFR Part 763, October 30th, 1987).

Therefore, based upon the visual inspection and TEM sample results, the aforementioned locations are safe for re-occupancy.

If any questions should arise, feel free to contact us (212) 353-8280 ext. 273.

Sincerely,

ATC ASSOCIATES, INC.

Remi Sanchez
Senior Project Manager

Cc: Alex Lempert

ATC ASSOCIATES INC.

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

January 11, 2002

N.Y.C. School Construction Authority
30-30 Thomson Avenue
Long Island City, NY 11101

15-21203-0089

Attn: Mr. Don Santo
Re: Report of TEM Analysis

Dear Mr. Santo:

Following are the results of transmission electron microscopy (TEM) analysis of air samples from our Group No. 6303:

Project Name: I.S. 89M, 201 Warren St., NY, NY
Location: Floors 1-6
Samples received: 01/10/02

These results will confirm and document the data transmitted today to Mr. Michael Parpounas, Director of Asbestos Services, of our office. The analyses were performed in strict conformance with the methodology of the AHERA Final Rule (CFR 763, Appendix A to Subpart E, October 30, 1987) for clearance of abatement sites.

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

Copies of the bench sheets are also included as stipulated by AHERA. MM1 TEM cassettes, Lot No. 1358, were used. Results reported as Struct/cc are a function of air volume collected in the field and are, as such, not verifiable by this laboratory. This report may be reproduced only in its entirety and not without prior permission of this laboratory. If post-abatement inside samples pass, the response action may be considered to have been completed. The analyses were supervised by Dr. Michael A. Gorycki, Director of Electron Microscopy.

We are pleased to note that our TEM lab has received full accreditation from NVLAP, as is currently required for recognized analysis of TEM air samples for AHERA projects, and also approval under the NY State DOH ELAP program. These analyses were performed by ATC d/b/a ATC Associates Inc. Please contact me regarding any questions relating to these materials.

Very truly yours,

Michael A. Gorycki, Ph.D.
Director of Electron Microscopy

ATC Associates

104 East 25 Street, New York, NY 10010

Phone: (212) 353-8280 Fax: (212) 353-8306

Attn:

N.Y.C. School Construction Authority
30-30 Thomson Avenue
Long Island City NY 11101

Fax: Phone:

Project: I.S. 89M
201 Warren Street, New York, NY

Received: 1/11/02 5:30:00 AM

ATC Group #: 6303

Analysis Date: 1/11/02

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

Sample	Volume	Area Analyzed	Non Asb	Asbestos Type(s)	Structures 0.5µ-5	Structures 5µ	Analytical Sensitivity (S/cc)	Asbestos Concentration (S/mm²)	Asbestos Concentration (S/cc)	Notes
03 6303 -1	1890.00	0.0450	0	None Detected	0	0	0.0045	<22.24	<0.0045	
04 6303 -2	1890.00	0.0450	0	None Detected	0	0	0.0045	<22.24	<0.0045	
05 6303 -3	1899.00	0.0450	0	None Detected	0	0	0.0045	<22.24	<0.0045	
06 6303 -4	1899.00	0.0450	0	None Detected	0	0	0.0045	<22.24	<0.0045	
07 6303 -5	1908.00	0.0450	0	None Detected	0	0	0.0045	<22.24	<0.0045	
08 6303 -6	1881.00	0.0450	0	None Detected	0	0	0.0046	<22.24	<0.0046	
09 6303 -7	1881.00	0.0450	0	None Detected	0	0	0.0046	<22.24	<0.0046	
10 6303 -8	1872.00	0.0450	0	None Detected	0	0	0.0046	<22.24	<0.0046	

ROMAN PEYSAKHOV
Analyzed by: RPey

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

Accredited for NVLAP PLM/TEM #101187-0, NY State ELAP #10879

Attn:
N.Y.C. School Construction Authority
30-30 Thomson Avenue
Long Island City NY 11101

Fax: Phone:

Project: I.S. 89M
201 Warren Street, New York, NY

Received: 1/11/02 5:30:00 AM
ATC Group #: 6303
Analysis Date: 1/11/02

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

Sample	Volume	Area Analyzed	Non Asb	Asbestos Type(s)	Structures 0.5µ-5	Structures 5µ	Analytical Sensitivity (S/cc)	Asbestos Concentration (S/mm²)	Asbestos Concentration (S/cc)	Notes
11 6303 -9	1872.00	0.0450	0	None Detected	0	0	0.0046	<22.24	<0.0046	
12 6303 -10	1881.00	0.0450	0	None Detected	0	0	0.0046	<22.24	<0.0046	
12A 6303 -11	1881.00	0.0450	0	None Detected	0	0	0.0046	<22.24	<0.0046	
13 6303 -12	1863.00	0.0450	0	None Detected	0	0	0.0046	<22.24	<0.0046	
14 6303 -13	1863.00	0.0450	0	None Detected	0	0	0.0046	<22.24	<0.0046	
15 6303 -14	1845.00	0.0450	0	None Detected	0	0	0.0046	<22.24	<0.0046	
16 6303 -15	1845.00	0.0450	0	None Detected	0	0	0.0046	<22.24	<0.0046	
17 6303 -16	1845.00	0.0450	0	None Detected	0	0	0.0046	<22.24	<0.0046	
18 6303 -17	1845.00	0.0450	0	None Detected	0	0	0.0046	<22.24	<0.0046	
19 6303 -18	1845.00	0.0450	0	None Detected	0	0	0.0046	<22.24	<0.0046	

ROMAN PEYSAKHOV
Analyzed by: RRey

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

Disclaimer: The laboratory is not responsible for data reported in structures/cc, which is dependent on volume collected by non-laboratory personnel. This lab is only responsible for data reported in structures/mm². This report may not be reproduced, except in full, without written approval by ATC Associates Inc. This report may not be used to claim product endorsement by NVLAP or any other agency of the U.S. Government. This reports relates only to the samples reported above. Quality control data (including 95% confidence limits and laboratory and analysis' accuracy and precision) is available upon request.

Accredited for NVLAP PLM/TEM #101187-0, NY State ELAP #10879

Attn:

N.Y.C. School Construction Authority
30-30 Thomson Avenue
Long Island City NY 11101

Fax: Phone:

Project: I.S. 89M
201 Warren Street, New York, NY

Received: 1/11/02 5:30:00 AM

ATC Group #: 6303

Analysis Date: 1/11/02

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

Sample	Volume	Area Analyzed	Non Asb	Asbestos Type(s)	Structures 0.5μ-5	Structures 5μ	Analytical Sensitivity (S/cc)	Asbestos Concentration (S/mm²)	Asbestos Concentration (S/cc)	Notes
20 6303 -19	1854.00	0.0450	0	None Detected	0	0	0.0046	<22.24	<0.0046	
21 6303 -20	1845.00	0.0450	0	None Detected	0	0	0.0046	<22.24	<0.0046	
22 6303 -21	1845.00	0.0450	0	None Detected	0	0	0.0046	<22.24	<0.0046	
23 6303 -22	1836.00	0.0450	0	None Detected	0	0	0.0047	<22.24	<0.0047	
24 6303 -23	1836.00	0.0450	0	None Detected	0	0	0.0047	<22.24	<0.0047	
25 6303 -24	1836.00	0.0450	0	None Detected	0	0	0.0047	<22.24	<0.0047	
26 6303 -25	1845.00	0.0450	0	None Detected	0	0	0.0046	<22.24	<0.0046	
27 6303 -26	1845.00	0.0450	0	None Detected	0	0	0.0046	<22.24	<0.0046	
28 6303 -27	1845.00	0.0450	0	None Detected	0	0	0.0046	<22.24	<0.0046	
29 6303 -28	1827.00	0.0450	0	None Detected	0	0	0.0047	<22.24	<0.0047	

ROMAN PEYSAKHOV
Analyzed by: RRey

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

Accredited for NVLAP PLM/TEM #101187-0, NY State ELAP #10879

Attn:

N.Y.C. School Construction Authority
30-30 Thomson Avenue
Long Island City NY 11101

Fax: Phone:

Project: I.S. 89M
201 Warren Street, New York, NY

Received: 1/11/02 5:30:00 AM
ATC Group #: 6303
Analysis Date: 1/11/02

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

Sample	Volume	Area Analyzed	Non Asb	Asbestos Type(s)	Structures 0.5μ-5	Structures 5μ	Analytical Sensitivity (S/cc)	Asbestos Concentration (S/mm²)	Asbestos Concentration (S/cc)	Notes
30 6303 -29	1827.00	0.0450	0	None Detected	0	0	0.0047	<22.24	<0.0047	
31 6303 -30	1836.00	0.0450	0	None Detected	0	0	0.0047	<22.24	<0.0047	
32 6303 -31	1836.00	0.0450	0	None Detected	0	0	0.0047	<22.24	<0.0047	
33 6303 -32	1845.00	0.0450	0	None Detected	0	0	0.0046	<22.24	<0.0046	
34 6303 -33	1854.00	0.0450	0	None Detected	0	0	0.0046	<22.24	<0.0046	
35 6303 -34	1863.00	0.0450	0	None Detected	0	0	0.0046	<22.24	<0.0046	
36 6303 -35	1863.00	0.0450	0	None Detected	0	0	0.0046	<22.24	<0.0046	
37 6303 -36	1863.00	0.0450	0	None Detected	0	0	0.0046	<22.24	<0.0046	
38 6303 -37	1863.00	0.0450	0	None Detected	0	0	0.0046	<22.24	<0.0046	
39 6303 -38	1872.00	0.0450	0	None Detected	0	0	0.0046	<22.24	<0.0046	

ROMAN PEYSAKHOV
Analyzed by: RPey

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

Accredited for NVLAP PLM/TEM #101187-0, NY State ELAP #10879

Attn:

N.Y.C. School Construction Authority
30-30 Thomson Avenue
Long Island City NY 11101

Fax: Phone:

Project: I.S. 89M
201 Warren Street, New York, NY

Received: 1/11/02 5:30:00 AM

ATC Group #: 6303

Analysis Date: 1/11/02

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

Sample	Volume	Area Analyzed	Non Asb	Asbestos Type(s)	Structures 0.5µ-5	Structures 5µ	Analytical Sensitivity (S/cc)	Asbestos Concentration (S/mm²)	Asbestos Concentration (S/cc)	Notes
40 6303 -39	1872.00	0.0450	0	None Detected	0	0	0.0046	<22.24	<0.0046	
41 6303 -40	1872.00	0.0450	0	None Detected	0	0	0.0046	<22.24	<0.0046	
42 6303 -41	1872.00	0.0450	0	None Detected	0	0	0.0046	<22.24	<0.0046	
43 6303 -42	1881.00	0.0450	0	None Detected	0	0	0.0046	<22.24	<0.0046	
44 6303 -43	1881.00	0.0450	0	None Detected	0	0	0.0046	<22.24	<0.0046	
45 6303 -44	1872.00	0.0450	0	None Detected	0	0	0.0046	<22.24	<0.0046	
46 6303 -45	1872.00	0.0450	0	None Detected	0	0	0.0046	<22.24	<0.0046	

ROMAN PEYSAKHOV
Analyzed by: RRM

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

Disclaimer: The laboratory is not responsible for data reported in structures/cc, which is dependent on volume collected by non-laboratory personnel. This lab is only responsible for data reported in structures/mm². This report may not be reproduced, except in full, without written approval by ATC Associates Inc. This report may not be used to claim product endorsement by NVLAP or any other agency of the U.S. Government. This reports relates only to the samples reported above. Quality control data (including 95% confidence limits and laboratory and analysis' accuracy and precision) is available upon request.

Accredited for NVLAP PLM/TEM #101187-0, NY State ELAP #10879

AIR MONITORING DATA AND CHAIN OF CUSTODY FORM

6303 45/50 69590 69639

Page 1 of 7

TURNAROUND TIME
☐ 2 hrs ☐ 6 hrs ☐ 48 hrs ☐ Standard
☐ 4 hrs ☐ 24 hrs ☐ 72 hrs ☐ Other ____

PROJECT INFORMATION

Client:	2. Project Name	3. Project #	4. Project Monitor:	4c. Rotameter Number:
MACCA	I.S. 89-M	21203-059	ZB Kownacki / Tecumseh	APHO
Date:	**2a. Project Address**	**3a. Task #**	**4a. Air Sampler:**	
9-10-02	201 WARREN ST.	01	ZB Kownacki / Tecumseh	

6. Abatement Location:	7. ☐ PCM (0.8 micron MCE)	8. ☒ TEM (0.45 micron MCE)	9. Type:
6th. FLOOR	Cassette/Filter Manufacture ____ Lot # ____	Cassette/Filter Manufacture ____ Lot # 13.5B	a. ☐ Background b. ☐ Pre-Abate c. ☐ Abatement d. ☐ Post-Abate e. ☐ OSHA f. ☐ Environmental g. ☒ Ambient h. ☐ Other

DAILY AIR SAMPLE RECORD

Sample I.D. Number	11. Pump Number	12. Sample Location 12a. IWA	12b. OWA	12c. Sample Coordinates	13. Time (24 hrs clock) 13a. Start	13b. End	13c. Total	14. Flow Rate (L/min.) 14a. Start	14b. End	14b. Avg	15. Total Air Vol. (liters)	16. # Fibers/Fields Minus Blank	17. Fiber Conc. F/CC
01				Field Blank Pen 30sec + close									
02				Field Blank Pen 30sec + close									
03		X		6th Floor: Corridor @ entrance to Boiler Room	15:35	19:05	210	9.0	9.0	9.0	1890		
04		X		6TH FLOOR BOILER ROOM 10 FT. FROM ENTRANCE	15:36	19:06	210	9.0	9.0	9.0	1890		
05		X		6TH FL. BOILER ROOM BY WATER CHILLER.	15:37	19:08	211	9.0	9.0	9.0	1899		
06		X		6TH FLOOR MECH. ROOM @ ENTRANCE.	15:38	19:09	211	9.0	9.0	9.0	1899		
07		X		6TH FLOOR MECH. ROOM BY LADDER TO 2ND LEVEL	15:39	19:11	212	9.0	9.0	9.0	1908		

CHAIN OF CUSTODY

Relinquished By:	19. Received By:	20. Date:	21. Time:
		9-10-02	
	TD	9/11/02	5:30am

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

22. Lab Name: ATC-TEM	23. Date:	24. Time:
a. Analyzed By: RRM	9/10/02	8:00
b. QC By:		
c. Lab Batch #:		

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

Analysis Methodology
PCM - NIOSH 7400A
TEM - AHERA

ATC Project Manager: Irene Hanely

27. Result To: Irene Hanely
Beeper/Phone #'s 646-279-1137 #11852

28. Comments:

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

NY-1 (1/01)

ATC ASSOCIATES INC.

6303

AIR MONITORING DATA AND CHAIN OF CUSTODY FORM

TURNAROUND TIME

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

PROJECT INFORMATION

Client: NYCSCA	2. Project Name: FCF9M	3. Project #: 2-12-03 of 9	4. Project Monitor: 2B Kowalski / T. Scavella	4c. Rotameter Number: HP110
	2a. Project Address: 201 Warren St.	3a. Task #: 01	4a. Air Sampler: 2B Kowalski / T. Scavella	
Date: 1-10-02	6. Abatement Location: 5th Floor	7. ☐ PCM (0.8 micron MCE) Cassette/Filter Manufacture ____ Lot # ____	8. ☒ TEM (0.45 micron MCE) Cassette/Filter Manufacture ____ Lot # 1358	9. Type: a. ☐ Background b. ☐ Pre-Abate c. ☐ Abatement d. ☐ Post-Abate e. ☐ OSHA f. ☐ Environmental g. ☒ Ambient h. ☐ Other

DAILY AIR SAMPLE RECORD

Sample I.D. Number	11. Pump Number	12a. IWA	12b. OWA	12c. Sample Coordinates	13a. Start	13b. End	13c. Total	14a. Start	14b. End	14b. Avg	15. Total Air Vol. (liters)	16. # Fibers/Fields Minus Blank	17. Fiber Conc. F/CC
				Field Blank									
				Field Blank									
08		X		Inside Room #501	1545	1914	209	9.0	9.0	9.0	1881		
09		X		In Corridor outside Room #506 + Elevator	1546	1915	209	9.0	9.0	9.0	1881		
10		X		Inside Room #510	1548	1917	209	9.0	9.0	9.0	1881		
11		X		Inside Exit #2	1550	1918	208	9.0	9.0	9.0	1872		
12		X		In Corridor by Room #526	1551	1920	209	9.0	9.0	9.0	1881		
12A		X		Inside Room #506	1552	1921	209	9.0	9.0	9.0	1881		

CHAIN OF CUSTODY

Relinquished By:	19. Received By:	20. Date:	21. Time:
[signature]		1-10-02	
	JD	1/11/02	5:30

ATC Project Manager: [signature]

27. Result To: Remi Aorley

Beeper/Phone #'s: 1800 107 9223 #11652

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

22. Lab Name: ATC-TEM	23. Date:	24. Time:
a. Analyzed By: [signature]	1/11/02	8:00
b. QC By:		
c. Lab Batch #:		

28. Comments:

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

Analysis Methodology
PCM - NIOSH 7400A
TEM - AHERA

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

NY-1 (1/01)

ATC ASSOCIATES INC.

6303

AIR MONITORING DATA AND CHAIN OF CUSTODY FORM

TURNAROUND TIME

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

PROJECT INFORMATION

1. Client:	2. Project Name	3. Project #	4. Project Monitor:	4c. Rotameter Number:
NYCSCA	PS 89M	21203.089	ZB Kowalski / J. Scarcella	1/C 4P
5. Date:	**6. Abatement Location:**	**7. ☐ PCM (0.8 micron MCE)**	**8. ☒ TEM (0.45 micron MCE)**	**9. Type:**
1-10-02	STFL Library	Cassette/Filter Manufacture _____ Lot # _____	Cassette/Filter Manufacture _____ Lot # 1358	a. ☐ Background b. ☐ Pre-Abate c. ☐ Abatement d. ☐ Post-Abate e. ☐ OSHA f. ☐ Environmental g. ☒ Ambient h. ☐ Other

2a. Project Address	3a. Task #	4a. Air Sampler:
201 Warren ST	01	ZB Kowalski / J. Scarcella

DAILY AIR SAMPLE RECORD

Sample I.D. Number	11. Pump Number	12. Sample Location 12a. IWA	12b. OWA	12c. Sample Coordinates	13. Time (24 hrs clock) 13a. Start	13b. End	13c. Total	14. Flow Rate (L/min.) 14a. Start	14b. End	14b. Avg	15. Total Air Vol. (liters)	16. # Fibers/Fields Minus Blank	17. Fiber Conc. F/CC
				Field Blank									
				Field Blank									
13		X		Fwside Library North Side	1555	1922	207	9.0	9.0	9.0	1863.		
14		X		Fwside Library Conference Room 517	1556	1923	207	9.0	9.0	9.0	1863.		

CHAIN OF CUSTODY

Relinquished By:	19. Received By:	20. Date:	21. Time:
		1-10-02	
	TD	1/11/02	5:30 am

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

22. Lab Name: ATC-TEM	23. Date:	24. Time:
a. Analyzed By: RKim	1/11/02	8:00
b. QC By:		
c. Lab Batch #:		

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

Analysis Methodology
PCM - NIOSH 7400A
TEM - AHERA

ATC Project Manager: Tom Hardy

27. Result To: LAB FOR 6232 & ATC

Beeper/Phone #'s Tom Hardy

28. Comments:

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

NY-1 (1/01)

ATC ASSOCIATES INC.

AIR MONITORING DATA AND CHAIN OF CUSTODY FORM

TURNAROUND TIME: ☐ 2 hrs ☐ 4 hrs ☐ 6 hrs ☐ 24 hrs ☐ 48 hrs ☐ 72 hrs ☐ Standard ☐ Other ____

6303

PROJECT INFORMATION

Client:	NYCSCA
2. Project Name	PS 89M
2a. Project Address	201 Warren ST.
3. Project #	21203-089
3a. Task #	01
4. Project Monitor:	ZB Kowalski / T. Scarcella
4a. Air Sampler:	ZB Kowalski / T. Scarcella
4c. Rotameter Number:	ATI(?)
Date:	1-10-02
6. Abatement Location:	4th FLOOR
7. ☐ PCM (0.8 micron MCE)	Cassette/Filter Manufacture ____ Lot # ____
8. ☒ TEM (0.45 micron MCE)	Cassette/Filter Manufacture ____ Lot # 1358
9. Type:	a. ☐ Background b. ☐ Pre-Abate c. ☐ Abatement d. ☐ Post-Abate e. ☐ OSHA f. ☐ Environmental g. ☒ Ambient h. ☐ Other

DAILY AIR SAMPLE RECORD

Sample I.D. Number	11. Pump Number	12a. IWA	12b. OWA	12c. Sample Coordinates	13a. Start	13b. End	13c. Total	14a. Start	14b. End	14b. Avg	15. Total Air Vol. (liters)	16. # Fibers/Fields Minus Blank	17. Fiber Conc. F/CC
				Field Blank									
				Field Blank									
5		X		Inside Room # 402	1600	1925	205	9.0	9.0	9.0	1845		
6		X		Corridor by Room # 406	1601	1926	205	9.0	9.0	9.0	1845		
7		X		Inside Room # 406	1602	1927	205	9.0	9.0	9.0	1845		
8		X		Corridor in Front of Room # 426	1603	1928	205	9.0	9.0	9.0	1845		
9		X		Inside Room # 428	1604	1929	205	9.0	9.0	9.0	1845		
0		X		Inside Stairwell # 1	1605	1931	206	9.0	9.0	9.0	1854		

CHAIN OF CUSTODY

Relinquished By:	19. Received By:	20. Date:	21. Time:
[signature]		1-10-02	
	TR	1/11/02	5:30

ATC Project Manager: [signature]

27. Result To: [signature]

Beeper/Phone #'s: 800 807 4433 # NYC

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

22. Lab Name: ATC - TEM	23. Date:	24. Time:
a. Analyzed By: RRNJ	1/11/02	8:00
b. QC By:		
c. Lab Batch #:		

28. Comments:

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

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

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

ATC ASSOCIATES INC. 6303

AIR MONITORING DATA AND CHAIN OF CUSTODY FORM

Page 5 of 9

TURNAROUND TIME
☐ 2 hrs ☐ 6 hrs ☐ 48 hrs ☐ Standard
☐ 4 hrs ☐ 24 hrs ☐ 72 hrs ☐ Other

PROJECT INFORMATION

1. Client: NYC SCA
2. Project Name: PS 89M
2a. Project Address: 201 WARREN St. NY NY
3. Project #: 02203-89
3a. Task #:
4. Project Monitor: [illegible] / [illegible]
4a. Air Sampler: [illegible] / [illegible]
4c. Rotameter Number: UP110
5. Date: -10-02
6. Abatement Location: 3rd FLOOR
7. ☐ PCM (0.8 micron MCE) Cassette/Filter Manufacture ____ Lot # ____
8. ☑ TEM (0.45 micron MCE) Cassette/Filter Manufacture ____ Lot # 1358
9. Type: a. ☐ Background b. ☐ Pre-Abate c. ☐ Abatement d. ☐ Post-Abate e. ☐ OSHA f. ☐ Environmental g. ☑ Ambient h. ☐ Other

DAILY AIR SAMPLE RECORD

Sample I.D. Number	11. Pump Number	12a. IWA	12b. OWA	12c. Sample Coordinates	13a. Start	13b. End	13c. Total	14a. Start	14b. End	14b. Avg	15. Total Air Vol. (liters)	16. # Fibers/Fields Minus Blank	17. Fiber Conc. F/CC
				Field Blank									
				Field Blank									
21		✓		Inside Room # 301	1610	1935	205	9.0	9.0	9.0	1845		
22		✓		Inside Stairwell # 3	1611	1936	205	9.0	9.0	9.0	1845		
23		✓		Inside Room # 304	1613	1937	204	9.0	9.0	9.0	1836		
24		✓		Corridor Adj To Room # 304	1614	1938	204	9.0	9.0	9.0	1836		
25		✓		Inside Gym, North side	1616	1940	204	9.0	9.0	9.0	1836		
26		X		Inside Gym South side	1617	1942	205	9.0	9.0	9.0	1845		
27		X		Inside Room # 326	1618	1943	205	9.0	9.0	9.0	1845		

(13. Time (24 hrs clock); 14. Flow Rate (L/min.))

CHAIN OF CUSTODY

18. Relinquished By:	19. Received By:	20. Date:	21. Time:
[signature]		1/10/02	
	JD	1/10/02	5:30

ATC Project Manager: D SANCHEZ

27. Result To: D SANCHEZ
Beeper/Phone #'s ____

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

22. Lab Name: ATC - TEM	23. Date:	24. Time:
a. Analyzed By: RKing	1/11/02	8:00
b. QC By:		
c. Lab Batch #:		

28. Comments:

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

Analysis Methodology
PCM - NIOSH 7400A
TEM - AHERA

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

NY-1 (1/01)

ATC ASSOCIATES INC.

AIR MONITORING DATA AND CHAIN OF CUSTODY FORM

6303

TURNAROUND TIME
☐ 2 hrs ☐ 6 hrs ☐ 48 hrs ☐ Standard
☐ 4 hrs ☐ 24 hrs ☐ 72 hrs ☐ Other ____

PROJECT INFORMATION

Client: NYC SCA
Date: -10-02
2. Project Name: PS 89 M
2a. Project Address: 201 Warren St.
3. Project #: 21203-089
3a. Task #: 01
4. Project Monitor: [illegible] / [illegible]
4a. Air Sampler: [illegible] / [illegible]
4c. Rotameter Number: [illegible]
6. Abatement Location: 3rd Floor - 2nd Floor
7. ☐ PCM (0.8 micron MCE) Cassette/Filter Manufacture ____ Lot # ____
8. ☒ TEM (0.45 micron MCE) Cassette/Filter Manufacture ____ Lot # 1358
9. Type: a. ☐ Background b. ☐ Pre-Abate c. ☐ Abatement d. ☐ Post-Abate e. ☐ OSHA f. ☐ Environmental g. ☒ Ambient h. ☐ Other

DAILY AIR SAMPLE RECORD

Sample I.D. Number	11. Pump Number	12a. IWA	12b. OWA	12c. Sample Coordinates	13a. Start	13b. End	13c. Total	14a. Start	14b. End	14b. Avg	15. Total Air Vol. (liters)	16. # Fibers/Fields Minus Blank	17. Fiber Conc. F/CC
				Field Blank									
				Field Blank									
28		Y		In Corridor next to Room #326 3rd FL	1619	1944	205	9.0	9.0	9.0	1845		
29		Y		Inside Room #202 2nd FL	1626	1949	203	9.0	9.0	9.0	1827		
30		Y		Corridor adj to Room #202	1627	1950	203	9.0	9.0	9.0	1827		
31		Y		Inside Room #204	1628	1952	204	9.0	9.0	9.0	1836		
32		Y		Inside General Offices	1629	1953	204	9.0	9.0	9.0	1836		
33		Y		Auditorium - Stage West [illegible]	1630	1955	205	9.0	9.0	9.0	1845		

CHAIN OF CUSTODY

Relinquished By:	19. Received By:	20. Date:	21. Time:
[signature]		1-10-02	
	[signature]	1/11/02	9:30

TC Project Manager: [signature]
27. Result To: [signature]
Beeper/Phone #'s [illegible]

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

22. Lab Name: ATC - TEM	23. Date:	24. Time:
a. Analyzed By: [signature]	1/12/02	8:00
b. QC By:		
c. Lab Batch #:		

28. Comments:

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

Analysis Methodology
PCM - NIOSH 7400A
TEM - AHERA

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

NY-1 (1/01)

ATC ASSOCIATES INC.

6303

AIR MONITORING DATA AND CHAIN OF CUSTODY FORM

TURNAROUND TIME: ☐ 2 hrs ☐ 4 hrs ☐ 6 hrs ☐ 24 hrs ☐ 48 hrs ☐ 72 hrs ☐ Standard ☐ Other ____

PROJECT INFORMATION

1. Client: NYC SCA
2. Project Name: PS 89 M
2a. Project Address: 201 WARREN ST. NYNY
3. Project #: 2203-89
3a. Task #:
4. Project Monitor: [illegible]
4a. Air Sampler: [illegible]
4c. Rotameter Number: KP40
5. Date: 1-10-02
6. Abatement Location: 2nd FLOOR
7. ☐ PCM (0.8 micron MCE) Cassette/Filter Manufacture ____ Lot # ____
8. ☒ TEM (0.45 micron MCE) Cassette/Filter Manufacture ____ Lot # 1318
9. Type: a. ☐ Background b. ☐ Pre-Abate c. ☐ Abatement d. ☐ Post-Abate e. ☐ OSHA f. ☐ Environmental g. ☒ Ambient h. ☐ Other

DAILY AIR SAMPLE RECORD

Sample I.D. Number	11. Pump Number	12a. IWA	12b. OWA	12c. Sample Coordinates	13a. Start	13b. End	13c. Total	14a. Start	14b. End	14b. Avg	15. Total Air Vol. (liters)	16. # Fibers/Fields Minus Blank	17. Fiber Conc. F/CC
				Field Blank									
				Field Blank									
34		Y		Auditorium - East side	1631	1957	206	9.0	9.0	9.0	1854		
35		Y		STAIRWELL #2	1632	1959	207	9.0	9.0	9.0	1863		
36		Y		Corridor Adj. To Room #228	1633	2000	207	9.0	9.0	9.0	1863		

CHAIN OF CUSTODY

18. Relinquished By:	19. Received By:	20. Date:	21. Time:
[signature]		1-10-02	
	[signature]	1/11/02	5:30

ATC Project Manager: P SANCHEZ

27. Result To: P SANCHEZ
Beeper/Phone #'s ____

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

22. Lab Name: ATC - TEM	23. Date:	24. Time:
a. Analyzed By: [signature]	1/11/02	8:30
b. QC By:		
c. Lab Batch #:		

28. Comments:

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

Analysis Methodology
PCM - NIOSH 7400A
TEM - AHERA

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

NY-1 (1/01)

ATC ASSOCIATES INC.

6303

AIR MONITORING DATA AND CHAIN OF CUSTODY FORM

TURNAROUND TIME
☐ 2 hrs ☐ 6 hrs ☐ 48 hrs ☐ Standard
☐ 4 hrs ☐ 24 hrs ☐ 72 hrs ☐ Other ____

PROJECT INFORMATION

Client: NYC SCA
2. Project Name: PS 89M
2a. Project Address: 201 Warren St NY NY
3. Project #: 21223-89
3a. Task #:
4. Project Monitor: Townsend P. Caparo
4a. Air Sampler: Townsend P. Caparo
4c. Rotameter Number: HP110
Date: -10-02
6. Abatement Location: 1st Floor
7. ☐ PCM (0.8 micron MCE) Cassette/Filter Manufacture ____ Lot # ____
8. ☒ TEM (0.45 micron MCE) Cassette/Filter Manufacture ____ Lot # 1358
9. Type: a. ☐ Background b. ☐ Pre-Abate c. ☐ Abatement d. ☐ Post-Abate e. ☐ OSHA f. ☐ Environmental g. ☒ Ambient h. ☐ Other

DAILY AIR SAMPLE RECORD

Sample I.D. Number	11. Pump Number	12a. IWA	12b. OWA	12c. Sample Coordinates	13a. Start	13b. End	13c. Total	14a. Start	14b. End	14b. Avg	15. Total Air Vol. (liters)	16. # Fibers/Fields Minus Blank	17. Fiber Conc. F/CC
				Field Blank									
				Field Blank									
37		✓		Kitchen -	1635	2002	207	9.0	9.0	9.0	1863.		
38		✓		Kitchen - Serving Area	1636	2003	207	9.0	9.0	9.0	1863.		
39		✓		Cafeteria	1637	2005	208	9.0	9.0	9.0	1872.		
40		✓		Cafeteria	1638	2006	208	9.0	9.0	9.0	1872.		
41		✓		Stairwell # 3	1639	2007	208	9.0	9.0	9.0	1872		
42		✓		corridor 1st FL by stairwell #3	1640	2008	208	9.0	9.0	9.0	1872		

CHAIN OF CUSTODY

Relinquished By:	19. Received By:	20. Date:	21. Time:
[signature]		1-10-02	
	JD	1/11/02	5:30

ATC Project Manager: R. Sanchez
27. Result To: R. Sanchez
Beeper/Phone #'s ____

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

22. Lab Name: ATC - TEM	23. Date:	24. Time:
a. Analyzed By: RRay	1/11/02	8:00
b. QC By:		
c. Lab Batch #:		

28. Comments:

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

Analysis Methodology
PCM - NIOSH 7400A
TEM - AHERA

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

NY-1 (1/01)

ATC ASSOCIATES INC.

6303

AIR MONITORING DATA AND CHAIN OF CUSTODY FORM

TURNAROUND TIME
☐ 2 hrs ☐ 6 hrs ☐ 48 hrs ☐ Standard
☐ 4 hrs ☐ 24 hrs ☐ 72 hrs ☐ Other ____

OJECT INFORMATION

Client: NYC SCA
2. Project Name: PS 89 M
2a. Project Address: 201 WARREN ST. NY NY
3. Project #: 2203.89
3a. Task #:
4. Project Monitor: [illegible]
4a. Air Sampler: [illegible]
4c. Rotameter Number: HP 110
Date: -10.02
6. Abatement Location: 1st FLOOR
7. ☐ PCM (0.8 micron MCE) Cassette/Filter Manufacture ____ Lot # ____
8. ☒ TEM (0.45 micron MCE) Cassette/Filter Manufacture ____ Lot # 1358
9. Type: a. ☐ Background b. ☐ Pre-Abate c. ☐ Abatement d. ☐ Post-Abate e. ☐ OSHA f. ☐ Environmental g. ☒ Ambient h. ☐ Other

LY AIR SAMPLE RECORD

Sample I.D. Number	11. Pump Number	12a. IWA	12b. OWA	12c. Sample Coordinates	13a. Start	13b. End	13c. Total	14a. Start	14b. End	14b. Avg	15. Total Air Vol. (liters)	16. # Fibers/Fields Minus Blank	17. Fiber Conc. F/CC
				Field Blank									
				Field Blank									
43		X		Corydor 1st Flo By North exit	1641	2010	209	9.0	9.0	9.0	1881		
44		X		Room #128 (inside)	1642	2011	209	9.0	9.0	9.0	1881		
45		X		Inside R# 132B	1644	2012	208	9.0	9.0	9.0	1872		
46		X		Inside Room #134	1645	2013	208	9.0	9.0	9.0	1872		
47				Open 30sec + close									
48				open 30sec + close									
49				Sealed BLANK									

N OF CUSTODY

linquished By:	19. Received By:	20. Date:	21. Time:
[signature]		1-10-02	
	TP	1/11/02	5:30

C Project Manager: P. SANCHEZ

27. Result To: P. SANCHEZ
Beeper/Phone #'s ____

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

22. Lab Name: ATC - TEM	23. Date:	24. Time:
a. Analyzed By: ARM	1/11/02	8:00
b. QC By:		
c. Lab Batch #:		

28. Comments:

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

Analysis Methodology
PCM - NIOSH 7400A
TEM - AHERA

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

NY-1 (1/01)

VATC ASSOCIATES INC.

AIR MONITORING DATA AND CHAIN OF CUSTODY FORM

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

PROJECT INFORMATION

1. Client:	2. Project Name / 2a. Project Address	3. Project #	4. Project Monitor / 4a. Air Sampler	4c. Rotameter Number
NYC - SCA	P.S. 89 M / 201 WARREN STR.	21203-089	J. Scarcella / M. Balota	HP-99

5. Date:	6. Abatement Location:	7. ☒ PCM (0.8 micron MCE)	8. ☐ TEM (0.45 micron MCE)	9. Type:
11.29.01	5th floor	Cassette/Filter Manufacture: Multi Lot #: METRICS - 915	Cassette/Filter Manufacture: Lot #:	a. ☐ Background b. ☐ Pre-Abate c. ☐ Abatement d. ☐ Post-Abate e. ☐ OSHA f. ☐ Environmental g. ☒ Ambient h. ☐ Other

DAILY AIR SAMPLE RECORD

Sample I.D. Number	11. Pump Number	12. Sample Location 12a. IWA	12b. OWA	12c. Sample Coordinates	13. Time (24 hrs clock) 13a. Start	13b. End	13c. Total	14. Flow Rate (L/min.) 14a. Start	14b. End	14b. Avg	15. Total Air Vol. (liters)	16. # Fibers/Fields Minus Blank	17. Fiber Conc. F/CC
01				Field Blank								0/100	
02				Field Blank								0/100	
03		✓		5th floor - Staircase #3 landing	09.33	11.38	125	14.5	14.5	14.5	1812.5	2.5/100	<0.003
04		✓		5th floor - corridor Adj. to Room # 507	09.35	11.40	125	14.5	14.5	14.5	1812.5	1/100	<0.003
05		✓		5th floor - Room # 510 Inside the Room	09.36	11.41	125	14.5	14.5	14.5	1812.5	1.5/100	<0.003
06		✓		5th floor - corridor Adj. to Room # 530	09.38	11.43	125	14.5	14.5	14.5	1812.5	1/100	<0.003
07		✓		5th floor - Library Next to Book Room	09.39	11.44	125	14.5	14.5	14.5	1812.5	1/100	<0.003

CHAIN OF CUSTODY

18. Relinquished By:	19. Received By:	20. Date:	21. Time:
M. Balota			
	A. Ebert	11.29.01	13:20

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

22. Lab Name:	23. Date:	24. Time:
a. Analyzed By: A. Ebert	11.29.01	14:30
b. QC By:		
c. Lab Batch #: 98123		

25. Microscope Make/Serial #:
☐ Olympus CH-2 ☐ Nikon Labophot 238913 ☐ Nikon Labophot 238917 ☐ Nikon Labophot 239079

Analysis Methodology
PCM - NIOSH 7400A
TEM - AHERA

ATC Project Manager: J. Sanchez

27. Result To: Remi Sanchez
Beeper/Phone #'s: ATC ext 273

28. Comments:

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

AIR MONITORING DATA AND CHAIN OF CUSTODY FORM

TURNAROUND TIME
☐ 2 hrs ☐ 6 hrs ☐ 48 hrs ☐ Standard
☐ 4 hrs ☐ 24 hrs ☐ 72 hrs ☐ Other ____

PROJECT INFORMATION

Client:	2. Project Name	3. Project #	4. Project Monitor:	4c. Rotameter Number:
NYC - SCA	P.S. 89 M 2a. Project Address: 201 WARREN STR.	21203 - 089	4a. Air Sampler: M. Balotta	HP-99

Date:	6. Abatement Location:	7. ☒ PCM (0.8 micron MCE)	8. ☐ TEM (0.45 micron MCE)	9. Type:
11.29.01	4th floor	Cassette/Filter Manufacture: MULTI Lot #: METRICS - 915	Cassette/Filter Manufacture: Lot #:	a. ☐ Background b. ☐ Pre-Abate c. ☐ Abatement d. ☐ Post-Abate e. ☐ OSHA f. ☐ Environmental g. ☒ Ambient h. ☐ Other

DAILY AIR SAMPLE RECORD

Sample I.D. Number	11. Pump Number	12. Sample Location 12a. IWA	12b. OWA	12c. Sample Coordinates	13. Time (24 hrs clock) 13a. Start	13b. End	13c. Total	14. Flow Rate (L/min.) 14a. Start	14b. End	14b. Avg	15. Total Air Vol. (liters)	16. # Fibers/Fields Minus Blank	17. Fiber Conc. F/CC
				Field Blank									
				Field Blank									
08		✓		4th floor - Staircase # 3 Landing	09.44	11.49	125	14.5	14.5	14.5	1812.5	1/100	<0.003
09		✓		4th floor - corridor Next to Room # 407	09.46	11.51	125	14.5	14.5	14.5	1812.5	2/100	<0.003
10		✓		4th floor - corridor Adj. to Room # 426	09.48	11.53	125	14.5	14.5	14.5	1812.5	1/100	<0.003
11		✓		4th floor - Room # 430 Inside the room	09.49	11.54	125	14.5	14.5	14.5	1812.5	1.5/100	<0.003
12		✓		4th floor - Staircase # 1 Landing	09.50	11.55	125	14.5	14.5	14.5	1812.5	2/100	<0.003

CHAIN OF CUSTODY

Relinquished By:	19. Received By:	20. Date:	21. Time:
M. Balla			
	A. Elbert	11.29.01	13:30

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

22. Lab Name:	23. Date:	24. Time:
a. Analyzed By: A. Elbert	12/3/01	14:30
b. QC By:		
c. Lab Batch #: 98123		

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

Analysis Methodology:
PCM - NIOSH 7400A
TEM - AHERA

ATC Project Manager: Remi Sanchez

27. Result To: R. Sanchez
Beeper/Phone #'s: ATC ext 273

28. Comments:

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

NY-1 (1/00)

ATC ASSOCIATES INC.

AIR MONITORING DATA AND CHAIN OF CUSTODY FORM

TURNAROUND TIME
☐ 2 hrs ☐ 6 hrs ☐ 48 hrs ☐ Standard
☐ 4 hrs ☐ 24 hrs ☐ 72 hrs ☐ Other

PROJECT INFORMATION

Client: NYC-SCA
2. Project Name: P.S. 89M
2a. Project Address: 201 WARREN STR.
3. Project #: 21203-089
4. Project Monitor: J. Scarcella
4a. Air Sampler: M. Balota
4c. Rotameter Number: HP-99
Date: 11.29.01
6. Abatement Location: 3rd floor
7. ☒ PCM (0.8 micron MCE) Cassette/Filter Manufacture: MULTI Lot #: METRICS - 915
8. ☐ TEM (0.45 micron MCE) Cassette/Filter Manufacture: Lot #:
9. Type: a. ☐ Background b. ☐ Pre-Abate c. ☐ Abatement d. ☐ Post-Abate e. ☐ OSHA f. ☐ Environmental g. ☒ Ambient h. ☐ Other

DAILY AIR SAMPLE RECORD

Sample I.D. Number	11. Pump Number	12a. IWA	12b. OWA	12c. Sample Coordinates	13a. Start	13b. End	13c. Total	14a. Start	14b. End	14b. Avg	15. Total Air Vol. (liters)	16. # Fibers/Fields Minus Blank	17. Fiber Conc. F/CC
				Field Blank									
				Field Blank									
13		✓		3rd floor - corridor Adj. to Room # 302	09.57	12.02	125	14.5	14.5	14.5	1812.5	1/100	<0.003
14		✓		3rd floor - Room # 304 Inside the room	09.58	12.03	125	14.5	14.5	14.5	1812.5	1/100	<0.003
15		✓		3rd floor - Gym In the middle	09.59	12.04	125	14.5	14.5	14.5	1812.5	1/100	<0.003
16		✓		3rd floor - Staircase # B Landing	10.00	12.05	125	14.5	14.5	14.5	1812.5	1/100	<0.003
17		✓		3rd floor - corridor Adj. to Room # 328	10.01	12.06	125	14.5	14.5	14.5	1812.5	2/100	<0.003

CHAIN OF CUSTODY

Relinquished By:	19. Received By:	20. Date:	21. Time:
M. Balota	A. Elbaut	11/29/01	13:20

ATC Project Manager: Remi Sanchez
27. Result To: Remi Sanchez
Beeper/Phone #'s: AR ext 273

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

22. Lab Name:		23. Date:	24. Time:
a. Analyzed By:	A. Elbaut	11.29.01	14:30
b. QC By:			
c. Lab Batch #:	98123		

28. Comments:

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

Analysis Methodology
PCM - NIOSH 7400A (circled)
TEM - AHERA

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

NY-1 (1/00)

VATC ASSOCIATES INC.

AIR MONITORING DATA AND CHAIN OF CUSTODY FORM

TURNAROUND TIME
☐ 2 hrs ☐ 6 hrs ☐ 48 hrs ☐ Standard
☐ 4 hrs ☐ 24 hrs ☐ 72 hrs ☐ Other ____

PROJECT INFORMATION

1. Client:	2. Project Name	3. Project #	4. Project Monitor:	4c. Rotameter Number:
NYC-SCA	P.S. 89 M	21203-089	J. SCANDELLA	HP. 50
	2a. Project Address: 201 WARREN STR.		4a. Air Sampler: M. BAZOTA	

Date:	6. Abatement Location:	7. ☒ PCM (0.8 micron MCE)	8. ☐ TEM (0.45 micron MCE)	9. Type:
11.29.01.	2nd floor	Cassette/Filter Manufacture: MULM Lot #: MERIES - 915	Cassette/Filter Manufacture: ____ Lot #: ____	a. ☐ Background b. ☐ Pre-Abate c. ☐ Abatement d. ☐ Post-Abate e. ☐ OSHA f. ☐ Environmental g. ☒ Ambient h. ☐ Other

DAILY AIR SAMPLE RECORD

Sample I.D. Number	11. Pump Number	12. Sample Location 12a. IWA	12b. OWA	12c. Sample Coordinates	13. Time (24 hrs clock) 13a. Start	13b. End	13c. Total	14. Flow Rate (L/min.) 14a. Start	14b. End	14b. Avg	15. Total Air Vol. (liters)	16. # Fibers/Fields Minus Blank	17. Fiber Conc. F/CC
				Field Blank									
				Field Blank									
18		✓		2nd floor - corridor Next to room # 202	10.05	12.10	125	14.5	14.5	14.5	18125	1/100	<0.003
19		✓		2nd floor - Room # 201 Inside the room	10.06	12.11	125	14.5	14.5	14.5	1812.5	1/100	<0.003
20		✓		2nd floor - corridor Across Room # 326	10.08	12.13	125	14.5	14.5	14.5	1812.5	2/100	<0.003
21		✓		2nd floor - Audit. Stage In the middle	10.10	12.15	125	14.5	14.5	14.5	1812.5	1.5/100	<0.003
22		✓		2nd floor - Staircase # 3 Landing	10.11	12.16	125	14.5	14.5	14.5	1812.5	1/100	<0.003

CHAIN OF CUSTODY

Relinquished By:	19. Received By:	20. Date:	21. Time:
M. Balk	A. Elbert	11/29/01	13:22

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

22. Lab Name:	23. Date:	24. Time:
a. Analyzed By: A. Elbert	11/29/01	14:50
b. QC By:		
c. Lab Batch #: 78123		

25. Microscope Make/Serial #:
☒ Nikon Labophot 238913 (26625)
☐ Nikon Labophot 238917
☐ Nikon Labophot 239079

Analysis Methodology
(PCM - NIOSH 7400A)
TEM - AHERA

ATC Project Manager: Remi Sanchez

27. Result To: Remi Sanchez
Beeper/Phone #'s: ATC ext 273

28. Comments:

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

AIR MONITORING DATA AND CHAIN OF CUSTODY FORM

ATC ASSOCIATES INC.

TURNAROUND TIME
☐ 2 hrs ☐ 6 hrs ☐ 48 hrs ☐ Standard
☐ 4 hrs ☐ 24 hrs ☐ 72 hrs ☐ Other ____

PROJECT INFORMATION

Client:	2. Project Name	3. Project #	4. Project Monitor:	4c. Rotameter Number:
NYC - DCA	P.S. 89 M	21203-089	J. Saucedo	
	2a. Project Address: 201 WARREN STR.		4a. Air Sampler: M. Balota	HP 99

Date:	6. Abatement Location:	7. ☒ PCM (0.8 micron MCE)	8. ☐ TEM (0.45 micron MCE)	9. Type:
11.29.01.	1st floor	Cassette/Filter Manufacture: MULM Lot #: METRICS - 915	Cassette/Filter Manufacture: ____ Lot #: ____	a. ☐ Background b. ☐ Pre-Abate c. ☐ Abatement d. ☐ Post-Abate e. ☐ OSHA f. ☐ Environmental g. ☒ Ambient h. ☐ Other

DAILY AIR SAMPLE RECORD

Sample I.D. Number	11. Pump Number	12. Sample Location 12a. IWA	12b. OWA	12c. Sample Coordinates	13. Time (24 hrs clock) 13a. Start	13b. End	13c. Total	14. Flow Rate (L/min.) 14a. Start	14b. End	14b. Avg	15. Total Air Vol. (liters)	16. # Fibers/Fields Minus Blank	17. Fiber Conc. F/CC
				Field Blank									
				Field Blank									
23		✓		1st floor - corridor At the Main Entrance	10.18	12.23	125	14.5	14.5	14.5	18125	4/100	<0.003
24		✓		1st floor - corridor Adj. to Room # 128	10.21	12.26	125	14.5	14.5	14.5	1812.5	1/100	<0.003
25		✓		1st floor - Staircase # 2 Landing	10.22	12.27	125	14.5	14.5	14.5	1812.5	1.5/100	<0.003
26		✓		1st floor - Cafeteria In the middle	10.24	12.29	125	14.5	14.5	14.5	1812.5	1/100	<0.003
27		✓		1st floor - Kitchen In the middle	10.25	12.30	125	14.5	14.5	14.5	1812.5	9/100	<0.003
28				Field Blank Open 30 sec								0/100	

CHAIN OF CUSTODY

Relinquished By:	19. Received By:	20. Date:	21. Time:
M. Balota	A. Elbaz	11/29/01	13.20

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

22. Lab Name:	23. Date:	24. Time:
a. Analyzed By: A. Elbaz	11/29/01	14.30
b. QC By:		
c. Lab Batch #: 98123		

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

ATC Project Manager:	27. Result To:	28. Comments:
Remi Sanchez	Remi Sanchez Beeper/Phone #'s: ATC ext 213	

Analysis Methodology: PCM - NIOSH 7400A (circled) TEM - AHERA

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

NY-1 (1/00)

NEW YORK CITY SCHOOL
CONSTRUCTION AUTHORITY

Nov 20, 2001

Monitor Proceed Order

Date: November 20, 2001

ATC Environmental
104 E. 25th Street
New York, NY 10010

Program: WTC PROGRAM Contract #: 0018710 Job #: 14528
BOE Work Order #(s): N/A
LLW#(s): 028804

This document shall serve as notice that ATC Environmental is directed to proceed immediately to:

Facility:	M089
School:	P.S./I.S. 89
Address:	201 WAREEN STREET
District:	02
Borough of:	Manhattan

and perform all necessary environmental health and safety work in accordance with SCA specifications and as directed by the Industrial and Environmental Hygiene Division. See the attachment to this document for detailed instructions.

Payment requests for work performed shall be prepared and submitted in accordance with the requirements specified within contract documents for contract 0018710 by and between New York City School Construction Authority and ATC Environmental. Payments will be approved only after receipt of a completed Request for Payment form and all appropriate documentation.

NOTE: NO WORK SHALL BE PERFORMED WHILE SCHOOL IS OCCUPIED.
All work designated for student areas shall be performed during non-school hours (on school days) or on Saturdays, Sundays or school holidays. No work shall commence without prior notification to the SCA representative and the school custodian.

Approved 11/20/01 Date

Copy To: Active Job Folder
Custodian:
Custodian Phone:
SCA Inspector: Donald Santo Phone: (718)472-8514

Industrial and Environmental Hygiene Division

New York City
School Construction Authority
Industrial and Environmental Hygiene

Monitor Job Scope

Facility: M089
School: P.S./I.S. 89
District: 02
Contract No: 0018710
Consultant: ATC Environmental
Job #: 14528

Consultant/Contractor shall furnish the services described in the areas identified below in accordance with the terms of the contract, and will follow current legal requirements.

Floor	Room	Quantity	Unit Price	Item Price
entir	entire	1	30,000.00	30,000.00
Description: Provide Monitor + Air Sampling Services				
			Total Price:	$30,000.00

NEW YORK ENVIRONMENTAL & MATERIAL TESTING LABORATORIES, INC.
AN INDEPENDENT FULL SERVICE TESTING AND CONSULTING FIRM

88 HARBOR ROAD
PORT WASHINGTON, N.Y. 11050
(516) 944-9500 • FAX (516) 944-9507

January 15, 2001

Mr. Don Santo
New York City School Construction Authority
Industrial and Environmental Hygiene
30-30 Thomson Avenue
Long Island City, New York 11011

Re: Public School 89M (WTC Program)
201 Warren Street New York, New York
Job Number: M089-14528
LLW Number: 028804

Dear Mr. Santo,

New York Environmental and Material Testing Laboratories, NYE & MTL, performed quality control air sampling at the above referenced site on January 10, 2002. NYE & MTL project monitors Mr. Al Palermo and Mr. Maher Abraham collected the quality control air samples throughout the project. Athenica Environmental Services, Inc., a third party independent laboratory, performed the transmission electron microscopy (TEM) for the project.

NYE & MTL was directed by the New York City School Construction Authority's Industrial and Environmental Hygiene department to collect 25% of the total number of air samples collected by ATC Associates, Inc. NYE & MTL collected a total of twenty-four (24) TEM samples on January 10, 2002. The samples were collected simultaneously, in the same locations as samples being collected by ATC Associates. NYE & MTL collected the TEM air samples in accordance with AHERA protocol using high-volume sampling pumps that were calibrated before, during and after each sample collected.

The samples were transported to Athenica Environmental Services, Inc. on January 10, 2002. Athenica performed the TEM air sample analysis in accordance with AHERA protocol on January 11, 2002. The sample results were reported to SCA Industrial and Environmental Hygiene via facsimile, followed by a hard copy delivered by NYE & MTL on January 11, 2002.

All environmental consulting services performed throughout this project were conducted in strict accordance with New York State ICR 56, New York City Title 15, AHERA, NYC SCA requirements and all other applicable federal, state and local guidelines.

If you have any questions pertaining to this project, please do not hesitate to contact me.

Best regards,

Scot Saliani
Project Manager

ATHENICA
ENVIRONMENTAL SERVICES INC.
Tel. (718) 784-7490
Fax. (718) 784-4985

AIRBORNE ASBESTOS ANALYSIS BY TRANSMISSION ELECTRON MICROSCOPY

CLIENT: New York Environmental
LABORATORY ID #: T02-01-002
ANALYT. METHODOLOGY: AHERA
FILTER TYPE: M.C.E.
AVERAGE G.O. AREA (mm^2): 0.009936

PROJECT: P.S. 89M
DATE OF REPORT: 01/11/02
DATE OF ANALYSIS: 01/11/02
EFFECTIVE FILTER AREA (mm^2): 385

LABORATORY RESULTS

CLIENT #	LAB. ID #	LOCATION	VOLUME (lt)	G.O.'s ANALYZED	AREA ANALYZED (mm^2)	ANALYT. SENSITIV. (struct./cm^3)	TOTAL ASBESTOS AIR CONC. (struc./cm^3)	TOTAL ASBESTOS FILTER CONC. (str./mm^2)	AIR CONC. FOR STRUCT. 0.5≤S<5µm	AIR CONC. FOR STRUCT. S≥5.0µm	ASBEST. TYPE CHRYS.	AMPHIB. ASBEST TYPE SPECIFY
A-1	T02-01-002-004	6th floor in stair #3	1818	5	0.0497	0.0043	<0.0043	<20.13	NA	NA	NA	NA
A-2	T02-01-002-005	6th floor in boiler room	1818	5	0.0497	0.0043	<0.0043	<20.13	NA	NA	NA	NA
A-3	T02-01-002-006	6th floor elevator room	1809	5	0.0497	0.0043	<0.0043	<20.13	NA	NA	NA	NA
A-4	T02-01-002-007	6th floor fan room	1800	5	0.0497	0.0043	0.0043	20.13	0.0043	<0.0043	Chrys.	NA
A-5	T02-01-002-008	In room 506	1800	5	0.0497	0.0043	<0.0043	<20.13	NA	NA	NA	NA
A-6	T02-01-002-009	5th floor hall, o/s room 507	1809	5	0.0497	0.0043	<0.0043	<20.13	NA	NA	NA	NA

ANALYST

LABORATORY DIRECTOR

LABORATORY CERTIFICATION NUMBERS: NVLAP 101958, ELAP 10955

- Athenica Environmental Services Inc. (AES), is responsible only for information pertaining to samples taken by its employees.
- Air sampling cassettes will be stored for sixty (60) days. AES Inc., should be notified within this time frame for a true duplicate analysis.
- If AES Inc., did not conduct the sampling, the reported airborne concentration was derived based on information provided by the client. Under these circumstances, the air concentration data is supplied solely for the convenience of the client.
- The report relates only to items tested. This report must not be used to claim product endorsement by NVLAP or any other agency of the U.S. Government. Test reports may not be reproduced except in full and with prior approval of AES Inc.
- The liability of Athenica Environmental Services Inc. with respect to the services charged, shall in no event exceed the amount of the invoice.

ATHENICA
ENVIRONMENTAL SERVICES INC.
Tel. (718) 784-7490
Fax. (718) 784-4885

AIRBORNE ASBESTOS ANALYSIS BY TRANSMISSION ELECTRON MICROSCOPY

CLIENT: New York Environmental
LABORATORY ID #: T02-01-002
ANALYT. METHODOLOGY: AHERA
FILTER TYPE: M.C.E.
AVERAGE G.O. AREA (mm^2): 0.009936

PROJECT: P.S. 89M
DATE OF REPORT: 01/11/02
DATE OF ANALYSIS: 01/11/02
EFFECTIVE FILTER AREA (mm^2): 385

LABORATORY RESULTS

CLIENT #	LAB. ID #	LOCATION	VOLUME (lt)	G.O.'s ANALYZED	AREA ANALYZED (mm^2)	ANALYT. SENSITIV. (struct./cm^3)	TOTAL ASBESTOS AIR CONC. (struc./cm^3)	TOTAL ASBESTOS FILTER CONC. (str./mm^2)	AIR CONC. FOR STRUCT. 0.5≤S<5µm	AIR CONC. FOR STRUCT. S≥5.0µm	ASBEST. TYPE CHRYS.	AMPHIB. ASBEST TYPE SPECIFY
A-7	T02-01-002-010	5th floor hall o/s room 527	1809	5	0.0497	0.0043	0.0043	20.13	0.0043	<0.0043	Chrys.	NA
A-8	T02-01-002-011	5th floor in stair #2	1809	5	0.0497	0.0043	<0.0043	<20.13	NA	NA	NA	NA
A-9	T02-01-002-012	4th floor in stair #1	1809	5	0.0497	0.0043	0.0086	40.26	0.0086	<0.0043	Chrys.	NA
A-10	T02-01-002-013	In room 428	1800	5	0.0497	0.0043	<0.0043	<20.13	NA	NA	NA	NA
A-11	T02-01-002-014	In room 406	1809	5	0.0497	0.0043	<0.0043	<20.13	NA	NA	NA	NA
A-12	T02-01-002-015	4th floor hall o/s room 415	1809	5	0.0497	0.0043	<0.0043	<20.13	NA	NA	NA	NA

for G

ANALYST

for SO

LABORATORY DIRECTOR

LABORATORY CERTIFICATION NUMBERS: NVLAP 101958, ELAP 10955

- Athenica Environmental Services Inc. (AES), is responsible only for information pertaining to samples taken by its employees.
- Air sampling cassettes will be stored for sixty (60) days. AES Inc., should be notified within this time frame for a true duplicate analysis.
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ENVIRONMENTAL SERVICES INC.
Tel. (718) 784-7490
Fax. (718) 784-4885

AIRBORNE ASBESTOS ANALYSIS BY TRANSMISSION ELECTRON MICROSCOPY

CLIENT: New York Environmental
LABORATORY ID #: T02-01-002
ANALYT. METHODOLOGY: AHERA
FILTER TYPE: M.C.E.
AVERAGE G.O. AREA (mm^2): 0.009936

PROJECT: P.S. 89M
DATE OF REPORT: 01/11/02
DATE OF ANALYSIS: 01/11/02
EFFECTIVE FILTER AREA (mm^2): 385

LABORATORY RESULTS

CLIENT #	LAB. ID #	LOCATION	VOLUME (lt)	G.O.'s ANALYZED	AREA ANALYZED (mm^2)	ANALYT. SENSITIV. (struct./cm^3)	TOTAL ASBESTOS AIR CONC. (struc./cm^3)	TOTAL ASBESTOS FILTER CONC. (str./mm^2)	AIR CONC. FOR STRUCT. 0.5≤S<5µm	AIR CONC. FOR STRUCT. S≥5.0µm	ASBEST. TYPE CHRYS.	AMPHIB. ASBEST TYPE SPECIFY
A-13	T02-01-002-016	3rd floor in stair #3	1818	5	0.0497	0.0043	<0.0043	<20.13	NA	NA	NA	NA
A-14	T02-01-002-017	3rd floor hall o/s room 301	1818	5	0.0497	0.0043	<0.0043	<20.13	NA	NA	NA	NA
A-15	T02-01-002-018	3rd floor in Gym	1809	5	0.0497	0.0043	<0.0043	<20.13	NA	NA	NA	NA
A-16	T02-01-002-019	3rd floor hall o/s Gym	1809	5	0.0497	0.0043	<0.0043	<20.13	NA	NA	NA	NA
A-17	T02-01-002-020	2nd floor hall o/s room 201	1809	5	0.0497	0.0043	<0.0043	<20.13	NA	NA	NA	NA
A-18	T02-01-002-021	In room 204	1809	5	0.0497	0.0043	<0.0043	<20.13	NA	NA	NA	NA

ANALYST

LABORATORY DIRECTOR

LABORATORY CERTIFICATION NUMBERS: NVLAP 101958, ELAP 10955

- Athenica Environmental Services Inc. (AES), is responsible only for information pertaining to samples taken by its employees.
- Air sampling cassettes will be stored for sixty (60) days. AES Inc., should be notified within this time frame for a true duplicate analysis.
- If AES Inc., did not conduct the sampling, the reported airborne concentration was derived based on information provided by the client. Under these circumstances, the air concentration data is supplied solely for the convenience of the client.
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ATHENICA
ENVIRONMENTAL SERVICES INC.
Tel. (718) 784-7490
Fax. (718) 784-4985

AIRBORNE ASBESTOS ANALYSIS BY TRANSMISSION ELECTRON MICROSCOPY

CLIENT: New York Environmental
LABORATORY ID #: T02-01-002
ANALYT. METHODOLOGY: AHERA
FILTER TYPE: M.C.E.
AVERAGE G.O. AREA (mm^2): 0.009936

PROJECT: P.S. 89M
DATE OF REPORT: 01/11/02
DATE OF ANALYSIS: 01/11/02
EFFECTIVE FILTER AREA (mm^2): 385

LABORATORY RESULTS

CLIENT #	LAB. ID #	LOCATION	VOLUME (lt)	G.O.'s ANALYZED	AREA ANALYZED (mm^2)	ANALYT. SENSITIV. (struct./cm^3)	TOTAL ASBESTOS AIR CONC. (struc./cm^3)	TOTAL ASBESTOS FILTER CONC. (str./mm^2)	AIR CONC. FOR STRUCT. 0.5≤S<5µm	AIR CONC. FOR STRUCT. S≥5.0µm	ASBEST. TYPE CHRYS.	AMPHIB. ASBEST TYPE SPECIFY
A-19	T02-01-002-022	2nd floor hall o/s room 226	1800	5	0.0497	0.0043	<0.0043	<20.13	NA	NA	NA	NA
A-20	T02-01-002-023	2nd floor in stair #2	1800	5	0.0497	0.0043	0.0086	40.26	0.0086	<0.0043	Chrys.	NA
A-21	T02-01-002-024	1st floor hall o/s room 127	1809	5	0.0497	0.0043	<0.0043	<20.13	NA	NA	NA	NA
A-22	T02-01-002-025	In cafeteria	1809	5	0.0497	0.0043	<0.0043	<20.13	NA	NA	NA	NA
A-23	T02-01-002-026	1st floor hall o/s stair #3	1818	5	0.0497	0.0043	<0.0043	<20.13	NA	NA	NA	NA
A-24	T02-01-002-027	1st floor in stair #3	1818	5	0.0497	0.0043	<0.0043	<20.13	NA	NA	NA	NA

for ES

ANALYST

for SD

LABORATORY DIRECTOR

LABORATORY CERTIFICATION NUMBERS: NVLAP 101958, ELAP 10955

- Athenica Environmental Services Inc. (AES), is responsible only for information pertaining to samples taken by its employees.
- Air sampling cassettes will be stored for sixty (60) days. AES Inc., should be notified within this time frame for a true duplicate analysis.
- If AES Inc., did not conduct the sampling, the reported airborne concentration was derived based on information provided by the client. Under these circumstances, the air concentration data is supplied solely for the convenience of the client.
- The report relates only to items tested. This report must not be used to claim product endorsement by NVLAP or any other agency of the U.S. Government. Test reports may not be reproduced except in full and with prior approval of AES Inc.
- The liability of Athenica Environmental Services Inc. with respect to the services charged, shall in no event exceed the amount of the invoice.

AIR MONITORING & CHAIN OF CUSTODY RECORD

CLIENT		☐ PCM	☑ TEM	☐ BACKGROUND	☐ PRE-ABATE	TURNAROUND	TIME
NYCSCA - PS 89M							
PROJECT NO.	DATE	CASSETTE MFG. & LOT NO. ENVIR. 410FKA	☐ OTHER	☐ DURING-ABATE	☐ POST-ABATE	☐ IMMEDIATE	☑ 6 HR
M089-14528	1-10-02						
ADDRESS		WORK AREA		ROTOMETER NO.		☐ 12 HR	☐ 24 HR
201 Warren St. NY. N.Y.		1st Floor to 6th Fl.		NYE #3	Ambient		

NYE QC NO	SAMPLE NO.		SAMPLE LOCATION	FLOW B/E (L)	FLOW AVG (L)	BEGIN TIME	END TIME	TOTAL MINUTES	TOTAL VOL (L)	FIBERS/[illegible]	FIBERS (F/CC)
	API-10-02 A-1	☑ IWA ☐ OWA	6th Fl. in stair #3	9/9	9	1535	1857	202	1818	<20.13	<0.0043
	A-2	☑ IWA ☐ OWA	6th Fl. in boiler RM	9/9	9	1536	1858	202	1818	<20.13	<0.0043
	A-3	☑ IWA ☐ OWA	6th Fl. elevator RM	9/9	9	1538	1859	201	1809	<20.13	<0.0043
	A-4	☑ IWA ☐ OWA	6th Fl Fan RM	9/9	9	1540	1900	200	1800	20.13	0.0043
	A-5	☑ IWA ☐ OWA	IN Room 506	9/9	9	1542	1902	200	1800	<20.13	<0.0043
	A-6	☑ IWA ☐ OWA	5th Fl. hall o/s RM 507	9/9	9	1543	1904	201	1809	<20.13	<0.0043
	A-7	☑ IWA ☐ OWA	5th Fl. hall o/s RM 527	9/9	9	1544	1905	201	1809	20.13	0.0043
	A-8	☑ IWA ☐ OWA	5th Fl. in stair #2	9/9	9	1545	1906	201	1809	<20.13	<0.0043
	A-9	☑ IWA ☐ OWA	4th Fl. in stair #1	9/9	9	1547	1908	201	1809	40.26	0.0086
	A-10	☑ IWA ☐ OWA	IN Room 428	9/9	9	1549	1909	200	1800	<20.13	<0.0043
	A-11	☑ IWA ☐ OWA	IN Room 406	9/9	9	1550	1911	201	1809	<20.13	<0.0043
	A-12	☑ IWA ☐ OWA	4th Fl. hall o/s RM 415	9/9	9	1551	1912	201	1809	<20.13	<0.0043
	A-13	☑ IWA ☐ OWA	3rd Fl. in stair #3	9/9	9	1552	1914	202	1818	<20.13	<0.0043

RELINQUISHED (PRINT)	SIGNATURE	DATE	TIME	RECEIVED (PRINT)	SIGNATURE	DATE	TIME
A. Palermo	A. Palermo	1-10	2000	E. Sinkin	[signature]	01/10/02	21:00
M. Abraham	[signature]	1-10-02	2100				
ANALYST (PRINT)	SIGNATURE	DATE	TIME	COMMENTS		MANAGER	
E.S.	[signature]	01/11/02	05:30	FAX(516)944-9507			

AIR MONITORING & CHAIN OF CUSTODY RECORD

CLIENT: NYCSCA - PS89M | ☐ PCM | ☑ TEM | ☐ BACKGROUND | ☐ PRE-ABATE | TURNAROUND: ☐ IMMEDIATE ☑ 6 HR | TIME

PROJECT NO.: M089-14528 | DATE: 1-10-02 | CASSETTE MFG. & LOT NO.: ENVEXP. 410FKA | ☐ OTHER | ☐ DURING-ABATE | ☐ POST-ABATE | ☐ 12 HR | ☐ 24 HR

ADDRESS: 201 Warren St. NY. NY. | WORK AREA: 1st Fl. to 6th Floor | ROTOMETER NO.: Ambient

NYE QC NO	SAMPLE NO.		SAMPLE LOCATION	FLOW B/E (L)	FLOW AVG (L)	BEGIN TIME	END TIME	TOTAL MINUTES	TOTAL VOL (L)	FIBERS/~~100~~ mm²	FIBERS (F/CC)
	AP 1-10-02	☑ TWA ☐ OWA									
	A-14	☑ TWA ☐ OWA	3rd Fl. hall o/s Rm 301	9/9	9	1553	1915	202	1818	<20.13	<0.0043
	A-15	☑ TWA ☐ OWA	3rd Fl. hall o/s Gym	9/9	9	1555	1916	201	1809	<20.13	<0.0043
	A-16	☑ TWA ☐ OWA	3rd Fl. in Gym	9/9	9	1557	1918	201	1809	<20.13	<0.0043
	A-17	☑ TWA ☐ OWA	2nd Fl. hall o/s Rm 201	9/9	9	1559	1920	201	1809	<20.13	<0.0043
	A-18	☑ TWA ☐ OWA	in Room 204	9/9	9	1600	1921	201	1809	<20.13	<0.0043
	A-19	☑ TWA ☐ OWA	2nd Fl. hall o/s Rm 226	9/9	9	1602	1922	200	1800	<20.13	<0.0043
	A-20	☑ TWA ☐ OWA	2nd Fl. in stair #2	9/9	9	1603	1923	200	1800	40.26	0.0086
	A-21	☑ TWA ☐ OWA	1st Fl. hall o/s Rm 127	9/9	9	1606	1927	201	1809	<20.13	<0.0043
	A-22	☑ TWA ☐ OWA	in cafeteria	9/9	9	1607	1928	201	1809	<20.13	<0.0043
	A-23	☑ TWA ☐ OWA	1st Fl. hall o/s stair #3	9/9	9	1608	1930	202	1818	<20.13	<0.0043
	A-24	☑ TWA ☐ OWA	1st Fl. in stair #3	9/9	9	1609	1931	202	1818	<20.13	<0.0043
	FBC-1	☑ TWA ☐ OWA	Field Blank-1	—/—	—	—	—	—	—		
	FBC-2	☑ TWA ☐ OWA	Field Blank-2	—/—	—	—	—	—	—		

RELINQUISHED (PRINT)	SIGNATURE	DATE	TIME	RECEIVED (PRINT)	SIGNATURE	DATE	TIME
Al Palermo		1-10	2000	E. Siwek		01/10/02	21:00
RELINQUISHED (PRINT)	SIGNATURE	DATE	TIME	RECEIVED (PRINT)	SIGNATURE	DATE	TIME
M. Abraham		1-10-02	2100				
ANALYST (PRINT)	SIGNATURE	DATE	TIME	COMMENTS		MANAGER	
E.S.		01/11/02	05:30	T02-01-002			

AIR MONITORING & CHAIN OF CUSTODY RECORD

CLIENT		☐ PCM	☑ ~~TEM~~	☐ BACKGROUND	☐ PRE-ABATE	TURNAROUND	TIME
NYCSCA - PS 89M							
PROJECT NO.	DATE	CASSETTE MFG. & LOT NO. Env Grp. 410 FCA	☐ OTHER	☐ DURING-ABATE	☐ POST-ABATE	☐ IMMEDIATE	☑ ~~6~~ HR
M089-14528	1-10-02						
ADDRESS		WORK AREA		ROTOMETER NO.	Ambient	☐ 12 HR	☐ 24 HR
201 Warren St. NY. NY.		1st Fl. to 6th Fl.					

NYE QC NO	SAMPLE NO.		SAMPLE LOCATION	FLOW B/E (L)	FLOW AVG (L)	BEGIN TIME	END TIME	TOTAL MINUTES	TOTAL VOL (L)	FIBERS/~~100~~ FIELDS	FIBERS (F/CC)
	AP1-10-02	☐ IWA ☐ OWA									
	F3C-3	☐ IWA ☐ OWA	Field Blank-3	— —	—	—	—	—	—		
	F3L-4	☐ IWA ☐ OWA	Field Blank-4- sealed	— —	—	—	—	—	—		
		☐ IWA ☐ OWA									
		☐ IWA ☐ OWA									
		☐ IWA ☐ OWA									
		☐ IWA ☐ OWA									
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		☐ IWA ☐ OWA									
		☐ IWA ☐ OWA									

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A. Palermo		1-10	2000	E. Siarkli		01/10/02	21:00
RELINQUISHED (PRINT)	SIGNATURE	DATE	TIME	RECEIVED (PRINT)	SIGNATURE	DATE	TIME
M. Abraham		1-10-02	2100				
ANALYST (PRINT)	SIGNATURE	DATE	TIME	COMMENTS		MANAGER	
E.S.		01/11/02		T02-01-002			