



AIRBORNE ASBESTOS ANALYSIS BY TRANSMISSION ELECTRON MICROSCOPY

CLIENT: Warren & Panzer Engineers, P.C.
LABORATORY ID #: T02-10-032
ANALYT. METHODOLOGY: AHERA
FILTER TYPE: M.C.E.
AVERAGE G.O. AREA (mm²): 0.013838

PROJECT: NYC DEP, 22 & 24 John Street
DATE OF REPORT: 10/06/02
DATE OF ANALYSIS: 10/06/02
EFFECTIVE FILTER AREA (mm²): 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. (struct./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
01	T02-10-032-2835	On left side of Street towards east end	1500	4	0.0554	0.0046	<0.0046	<18.07	NA	NA	NA	NA
02	T02-10-032-2386	On right of Street towards east end	1500	4	0.0554	0.0046	<0.0046	<18.07	NA	NA	NA	NA
03	T02-10-032-2837	At the center of street	1500	4	0.0554	0.0046	<0.0046	<18.07	NA	NA	NA	NA
04	T02-10-032-2838	On right side of Street west end	1500	4	0.0554	0.0046	<0.0046	<18.07	NA	NA	NA	NA
05	T02-10-032-2839	On left side of Street towards west end	1500	4	0.0554	0.0046	<0.0046	<18.07	NA	NA	NA	NA

ANALYST
E. Dimitrakas

LABORATORY DIRECTOR
Spiro Dongaris

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.

ENVIRONMENTAL SERVICES INC.

Tel. (718) 784-7490
Fax (718) 784-4085

CLIENT: <i>Warren & Parizer NTC DEP</i>	DATE: <i>10/6/02</i>
PROJECT: <i>22724 John SW</i>	ANALYST: <i>CN2</i>
BATCH #: <i>T02.010.032.288</i>	CLIENT ID #: <i>01</i>
SAMPLE ID #: <i>T02.010.032.2835</i>	VOLUME (lt): <i>1500</i>
G.O. AREA (mm ²): <i>0.013838</i>	GO's TO ANALYZE: <i>4</i>
MAGNIFICATION: <i>196</i>	ACC. VOLTAGE (KeV): <i>100</i>
INSTRUMENT: JEOL 100CX II	FILTER AREA (mm ²): <i>.885</i>
ANALYTICAL METHODOLOGY: EPA FEDERAL REGISTER, VOL. 52, No 210, OCT. 30, 1987, #40 CFR, PART 763, APPENDIX A TO SUBPART E	

[illegible]

Analytical Sensitivity (str/cm ²):	0.0096	Eucentricity check :	✓
Concentration (str/cm ²) :	< 2.0046	*Grid acceptance criteria check :	(A)...✓ (B)...✓
Concentration (str/mm ²) :	< 18.07	**CHR. # STRUCT.:	F M C B
Number of Asbestos Structures :	0.5 ≤ S < 5 μm : 9....	**AMPH. # STRUCT.:	F M C B
	S ≥ 5 μm 0....	Specify AMPH. Type :	AM. ACT. TRE.
Number of Non-asbestos Structures:	 0.....	CRO. ANTH.	

** CHR.=chrysotile, AMPH.=amphibole, AM.=amosite, ACT.=actinolite, TRE.=tremolite, CRO.=crocidolite, ANTH.=anthophyllite.

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CLIENT : Warren & Parson NTC DEP	DATE : 10/6/02
PROJECT : 22124 John SW	ANALYST : CND
BATCH # : T02.010.032- ~~008~~	CLIENT ID # : 02
SAMPLE ID # : T02.010-032.2836	VOLUME (lt) : 1500
G.O. AREA (mm ²) : 0.013838	GO's TO ANALYZE : 4
MAGNIFICATION : 196	ACC. VOLTAGE (KeV) : 100
INSTRUMENT : JEOL 100CX II	FILTER AREA (mm ²) : 385
ANALYTICAL METHODOLOGY: EPA FEDERAL REGISTER, VOL. 52, No 210, OCT. 30, 1987, #40 CFR, PART 763, APPENDIX A TO SUBPART E	

[illegible]

Analytical Sensitivity (str/cm ³):	0.0046	Eucentricity check:	
Concentration (str/cm ³):	0.0046	*Grid acceptance criteria check:	(A)..... (B).....
Concentration (str/mm ²):	<18.07	**CHR. # STRUCT.:	F M C B
Number of Asbestos Structures:	0.5 ≤ S < 5 μm .0...	**AMPH. # STRUCT.:	F M C B
	S ≥ 5 μm 0...	Specify AMPH. Type:	AM. ACT. TRE.
Number of Non-asbestos Structures:	0.....	CRO. ANTH.	

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CLIENT: Warren & Porter NTC O&P	DATE: 10/6/02
PROJECT: 22524 John St	ANALYST: CW
BATCH #: 702.010.032- ~~308~~	CLIENT ID #: 03
SAMPLE ID #: 702.010-031.2831	VOLUME (lt): 1500
G.O. AREA (mm ²): 0.013838	GO's TO ANALYZE: 4
MAGNIFICATION: 194	ACC. VOLTAGE (KeV): 100
INSTRUMENT: JEOL 100CX II	FILTER AREA (mm ²): 385
ANALYTICAL METHODOLOGY: EPA FEDERAL REGISTER, VOL. 52, No 210, OCT. 30, 1987, #40 CFR, PART 763, APPENDIX A TO SUBPART E	

[illegible]

Analytical Sensitivity (str/cm ³):	0.0046	Eucentricity check:	J
Concentration (str/cm ³):	< 0.0046	*Grid acceptance criteria check:	(A)..... (B).....
Concentration (str/mm ²):	< 18.07	**CHR. # STRUCT.:	F M C B
Number of Asbestos Structures:	0.5 ≤ S < 5 μm. 0...	**AMPH. # STRUCT.:	F M C B
	S ≥ 5 μm 0...	Specify AMPH. Type:	AM. ACT. TRE.
Number of Non-asbestos Structures:	 0.....	CRO. ANTH.	

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ATHENICA

ENVIRONMENTAL SERVICES INC.

45-09 Greenpoint Avenue
Long Island City, N.Y. 11104

TEM DEPARTMENT

Tel. (718) 784-7480
Fax (718) 784-4085

TEM AHERA COUNTSHEET

CLIENT: <i>Novartis Partner NYC DEP</i>	DATE: <i>10/6/02</i>
PROJECT: <i>227 24 John St</i>	ANALYST: <i>CRD</i>
BATCH #: <i>702,010-032-888</i>	CLIENT ID #: <i>04</i>
SAMPLE ID #: <i>702,010-032,2838</i>	VOLUME (l): <i>1500</i>
G.O. AREA (mm ²): <i>0.013838</i>	GO's TO ANALYZE: <i>4</i>
MAGNIFICATION: <i>194</i>	ACC. VOLTAGE (KeV): <i>100</i>
INSTRUMENT: JEOL 100CX II	FILTER AREA (mm ²): <i>385</i>
ANALYTICAL METHODOLOGY: EPA FEDERAL REGISTER, VOL. 52, No 210, OCT. 30, 1987, #40 CFR, PART 763, APPENDIX A TO SUBPART E	

GRI D	GO ID	Str. #	Str. Classf.	L (μm)	W (μm)	Structure sketch	SAE D	EDXA	PHO TO#	ID
<i>B</i>	<i>G1</i>	<i>N20</i>								
	<i>G2</i>	<i>N20</i>								
<i>A</i>	<i>G1</i>	<i>N20</i>								
	<i>G3</i>	<i>N20</i>								

Analytical Sensitivity (str/cm ²): <i>0.0046</i>	Eucentricity check: <i>J</i>
Concentration (str/cm ²): <i>< 0.0046</i>	*Grid acceptance criteria check: (A) <i>✓</i> (B) <i>✓</i>
Concentration (str/mm ²): <i>< 18.07</i>	**CHR. # STRUCT.: F M C B
Number of Asbestos Structures: <i>0.5 ≤ S < 5 μm ... 0...</i>	**AMPH. # STRUCT.: F M C B
<i>S ≥ 5 μm ... 0...</i>	Specify AMPH. Type: AM. ACT. TRE.
Number of Non-asbestos Structures: <i>0...</i>	CRO. ANTH.

* Replica covers >50%, at least 20 GO's with no overlapping or folded replica, intact GO's have >50% coverage, <50% Undissolved filter, <5% holes or opaque areas, <10% particulate coverage.

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CLIENT: Warren & Parizer NTC DEP	DATE: 10/6/02
PROJECT: 22524 John SW	ANALYST: CR2
BATCH #: T02.010-032-208	CLIENT ID #: 05
SAMPLE ID #: T02.010-032.2839	VOLUME (lt): 1500
G.O. AREA (mm ²): 0.013838	GO's TO ANALYZE: 4
MAGNIFICATION: 196	ACC. VOLTAGE (KeV): 100
INSTRUMENT: JEOL 100CX II	FILTER AREA (mm ²): 385
ANALYTICAL METHODOLOGY: EPA FEDERAL REGISTER, VOL. 52, No 210, OCT. 30, 1987, #40 CFR, PART 763, APPENDIX A TO SUBPART E	

[illegible]

Analytical Sensitivity (str/cm ³):	0.0046	Eucentricity check:	
Concentration (str/cm ³):	< 0.0046	*Grid acceptance criteria check:	(A)..... (B).....
Concentration (str/mm ²):	< 18.07	**CHR. # STRUCT.:	F M C B
Number of Asbestos Structures:	0.5 ≤ S < 5 μm 0	**AMPH. # STRUCT.:	F M C B
	S ≥ 5 μm 0	Specify AMPH. Type:	AM. ACT. TRE.
Number of Non-asbestos Structures:	0	CRO. ANTH.	

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