

AIRBORNE ASBESTOS ANALYSIS BY TRANSMISSION ELECTRON MICROSCOPY

CLIENT: Warren & Panzer Engineers, P.C.
LABORATORY ID #: T02-07-038
ANALYT. METHODOLOGY: AHERA
AVERAGE G.O. AREA (mm²): 0.008643

PROJECT: NYC DEP, 50 Broadway
DATE OF REPORT: 07/29/02
DATE OF ANALYSIS: 07/29/02
EFFECTIVE FILTER AREA (mm²): 385



ATHENICA

ENVIRONMENTAL SERVICES INC.
PA (718) 794-7490
Fax (718) 784-4065

LABORATORY RESULTS

CLIENT #	LAB. ID #	LOCATION	VOLUME (L)	G.O. ANAL. YIELD	AREA ANALYZED (mm ²)	ANALYT. SENSITIVITY (hrad/cm ²)	TOTAL ASBESTOS AIR CONC. (atrac/cm ³)	TOTAL ASBESTOS FILTER CONC. (str./mm ²)	AIR CONC. FOR STRUCT. 0.55<4um	AIR CONC. FOR STRUCT. >5.0um	ASBEST. TYPE CHRYS.	AMPHIB. ASBEST. TYPE SPECIFY
1	T02-07-038-1134	In Remote Decon	1440	7	0.0605	0.0044	<0.0044	<16.53	NA	NA	NA	NA
2	T02-07-038-1135	East side of Roof	1440	7	0.0605	0.0044	<0.0044	<16.53	NA	NA	NA	NA
3	T02-07-038-1136	West Side of Roof	1440	7	0.0605	0.0044	<0.0044	<16.53	NA	NA	NA	NA
4	T02-07-038-1137	North East Roof	1440	7	0.0605	0.0044	<0.0044	<16.53	NA	NA	NA	NA
5	T02-07-038-1138	South side Roof	1440	7	0.0605	0.0044	<0.0044	<16.53	NA	NA	NA	NA

ANALYST
E. Dimitrakas

LABORATORY DIRECTOR
Spiro Dongaris

LABORATORY CERTIFICATION NUMBERS: NVLAP 161958, ELAP 10955

- 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.

2228 East 45th Street
New York, NY 10017
(212) 922-0077
Fax (212) 922-0630

WARREN & PANZER ENGINEERS, P. C.
AIR MONITORING LOG SHEET/CHAIN-OF-CUSTODY FORM

Fax (212) 922-0690

24 hr⁺/a 12 hr⁺/a 6 hr⁺/a 3 hr⁺/a Immediate⁺/a

W&P FILE #: 1079.01.02

W&P FILE #:
LABORATORY:

CLIENT: NYC DEP
PROJECT: ROOFS/FACADES
LOCATION: 50 BROADWAY

LABORATORY:

ANALYSIS METHOD:	PCM	TEM	TEM
circle one	7400	ANALYST	EPA LEVEL II

TECHNICIAN: EDWIN B. ELLIS

CONTACT:

[illegible]

COMMENTS:

000-10-7011

SAMPLE BY: E. ELLS	DATE: 7/28/02
SIGNATURE: [Signature]	
RELEASED BY: [Signature]	DATE: 7/28/02
SIGNATURE: [Signature]	
RECEIVED BY: G. S. Joubert	DATE: 7/29/02
SIGNATURE: [Signature]	

SAMPLE TYPE CODES	
1 - Blank	5 - Final Clearance (inside)
2 - Pre-Abatement	6 - Final Clearance (outside)
3 - <u>During Abatement</u>	7 - Personal
4 - During Glove Bag Removal	8 - Background

SEE REVERSE SIDE FOR ANALYSIS INFORMATION

TEL:

Sep 17, 00

1:59 No.001 P.03



ATHENICA
ENVIRONMENTAL SERVICES INC.
Tel: (718) 794-7400
Fax: (718) 794-4035

CLIENT: Warren & Panzer Engineers, P.C.
LABORATORY ID #: T02-07-031
ANALYT. METHODOLOGY: AHERA
FILTER TYPE: M.C.E.
AVERAGE G.O. AREA (mm²): 0.008643

PROJECT: NYC DEP, 50 Broadway
DATE OF REPORT: 07/28/02
DATE OF ANALYSIS: 07/28/02
EFFECTIVE FILTER AREA (mm²): 385

AIRBORNE ASBESTOS ANALYSIS BY TRANSMISSION ELECTRON MICROSCOPY

LABORATORY RESULTS

CLIENT #	LAR ID #	LOCATION	VOLUME (ft ³)	G.O. ANALYZED	AREA ANALYZED (mm ²)	ANALYT. SENSITIVITY (mmol/cm ³)	TOTAL ASBESTOS AIR CONC. (mmol/cm ³)	TOTAL ASBESTOS FILTER CONC. (mmol/cm ³)	AIR CONC. FOR STRUCT. 0.45-5.0um	AIR CONC. FOR STRUCT. 5.0-10um	ASBEST. TYPE CHRY.	ASBEST. TYPE SPECIF.
01	T02-07-031-1099	By remote down	1500	6	0.0519	0.0049	<0.0049	<19.28	NA	NA	NA	NA
02	T02-07-031-1100	East side of roof	1500	6	0.0519	0.0049	<0.0049	<19.28	NA	NA	NA	NA
03	T02607-031-1101	West side of roof	1500	6	0.0519	0.0049	<0.0049	<19.28	NA	NA	NA	NA
04	T02-07-031-1102	Northeast of roof	1500	6	0.0519	0.0049	<0.0049	<19.28	NA	NA	NA	NA
05	T02-07-031-1103	Middle of roof	1500	6	0.0519	0.0049	<0.0049	<19.28	NA	NA	NA	NA

ANALYST
E. Stokri

LABORATORY DIRECTOR
Spino Duganis

LABORATORY CERTIFICATION NUMBERS: NVLAP 101958, ELAP 10955

- Athenica Environmental Services Inc. (AESI), is responsible only for information pertaining to samples taken by its employees.
- Air sampling cascades will be carried for only (60) days. AESI Inc. should be notified within this time frame for a true duplicate analysis.
- If AESI 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 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 AESI Inc.
- The liability of Athenica Environmental Services Inc. with respect to the services charged, shall in no event exceed the amount of the invoice.

