



ATHENICA
ENVIRONMENTAL SERVICES INC.

Tel. (718) 784-7490
Fax. (718) 784-1085

AIRBORNE ASBESTOS ANALYSIS BY TRANSMISSION ELECTRON MICROSCOPY

CLIENT: Warren & Panzer Engineers, P. C.
LABORATORY ID #: T02-08-058
ANALYT. METHODOLOGY: AHERA
FILTER TYPE: M.C.E.
AVERAGE G.O. AREA (mm²): 0.012422

PROJECT: NYC DEP, 50 Broadway
DATE OF REPORT: 08/13/02
DATE OF ANALYSIS: 08/13/02
EFFECTIVE FILTER AREA (mm²): 385

LABORATORY RESULTS

CLIENT #	LAB. ID #	LOCATION	VOLUME (M)	G.O.'s ANALYZED	AREA ANALYZED (mm ²)	ANALYT. SENSITIVITY (strand/cm ²)	TOTAL ASBESTOS AIR CONC. (strand/cm ²)	TOTAL ASBESTOS FILTER CONC. (strand/cm ²)	AIR CONC. FOR STRUCT. 0.5-5.0µm	AIR CONC. FOR STRUCT. 5-10µm	ASBEST. TYPE CHYRS.	ADHER. ASBEST. TYPE SPECTRY
01	T02-08-058-1494	Floor 35 East	1155	6	0.0745	0.0045	<0.0045	<13.42	NA	NA	NA	NA
02	T02-08-058-1495	Floor 35 West	1155	6	0.0745	0.0045	<0.0045	<13.42	NA	NA	NA	NA
03	T02-08-058-1496	Floor 35 Entrance	1155	6	0.0745	0.0045	<0.0045	<13.42	NA	NA	NA	NA
04	T02-08-058-1497	Floor 5 West	1149	6	0.0745	0.0045	<0.0045	<13.42	NA	NA	NA	NA
05	T02-08-058-1498	Floor 5 South	1137	6	0.0745	0.0045	<0.0045	<13.42	NA	NA	NA	NA

E. Dimitrakas

ANALYST
E. Dimitrakas

Spiro Donganis

LABORATORY DIRECTOR
Spiro Donganis

LABORATORY CERTIFICATION NUMBERS: NYLAP 101958, ELAP 10955

- Air sampling cassette 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 NVA, AP 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.

228 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

PAGE OF
P.O.

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

W&P FILE #: 60

CONTACT: M. H. H. H. H.

CLIENT: VER
PROJECT: WTC-50 Broadway
LOCATION: 50 Broadway

LABORATORY: TEM
ANALYSIS METHOD: PCM TEM
circle one 7400 AHERA EPA LEVEL II

TECHNICIAN:

SAMPLE NUMBER	SAMPLE DESCRIPTION/LOCATION	SAMPLE TYPE	PUMP #	FLOWRATE START STOP	TIME ON OFF	TOTAL TIME	VOLUME (liters)	CONCENTR. (lib./cc.)
01	AW 35 Inside	3		3	08:25 15:00	285	1155	
02	AW 35 West	3		3	08:36 15:01	385	1155	
03	AW 35 Entry	3		3	08:37 15:02	385	1155	
04	5 West	3		3	08:40 15:03	383	1149	
05	5 South	3		3	08:44 15:05	399	1157	
06	F. Blank							
07	F. Blank							
08	F. Blank							

COMMENTS:

SAMPLE BY: O. West DATE: 8-11-01

SIGNATURE: [Signature]

RELEASED BY: [Signature] DATE:

SIGNATURE:

RECEIVED BY: E. S. S. S. DATE: 8/14/02

SIGNATURE: [Signature]

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

SEE REVERSE SIDE FOR ANALYSIS INFORMATION

08/14/2002 18:53 FAX 719 734 4065

6010

AIRBORNE ASBESTOS ANALYSIS BY TRANSMISSION ELECTRON MICROSCOPY

PROJECT: NYCDHP, 50 Broadway Street, NY
 DATE OF REPORT: 08/13/02
 DATE OF ANALYSIS: 08/13/02
 EFFECTIVE FILTER AREA (mm²): 385

CLIENT: Warren & Panzer Engineers, P. C.
 LABORATORY ID #: T02-08-061
 ANALYT. METHODOLOGY: AHERA
 FILTER TYPE: M.C.E.
 AVERAGE G.O. AREA (mm²): 0.012422

**ATHENICA**

ENVIRONMENTAL SERVICES INC.

Tel: (765) 784-7440
 Fax: (719) 734-4065

LABORATORY RESULTS

CLIENT #	LAB. ID #	LOCATION	VOLUME (ft ³)	G.O.'S ANAL YZED	AREA ANALY ZED (mm ²)	ANALYT. SENSITIV. (fibers/cm ²)	TOTAL ASBESTOS AIR CONC. (fibers/cm ³)	TOTAL ASBESTOS FILTER CONC. (fibers/cm ³)	AIR CONC. FOR STRUCT. >5.0µm	ASBEST. TYPE CHRYS.	AMPHIB. ASBEST. TYPE SPECIFY
01	T02-08-061-1509	At North east corner left side 3 rd floor	1760	4	0.0497	0.0044	<0.0044	<20.13	NA	NA	NA
02	T02-08-061-1510	At North east corner right side 3 rd floor	1760	4	0.0497	0.0044	<0.0044	<20.13	NA	NA	NA
03	T02-08-061-1511	At center of roof 3 rd floor	1760	4	0.0497	0.0044	<0.0044	<20.13	NA	NA	NA
04	T02-08-061-1512	At North west corner left side 5 th floor	1760	4	0.0497	0.0044	<0.0044	<20.13	NA	NA	NA
05	T02-08-061-1513	At north west corner right side 5 th floor	1760	4	0.0497	0.0044	<0.0044	<20.13	NA	NA	NA

ANALYST
 E. Durnitrakas

LABORATORY DIRECTOR
 Spiro Douganis

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 certificates 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.
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AIR MONITORING LOG SHEET/CHAIN-OF-CUSTODY FORM

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

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W&P FILE #: 1079-01-02

CONTACT: *Mr. Nozawa*

CLIENT: ALYCE DEB

PROJECT:	ANALYSIS METHOD:	PCM	TEM	TEM
✓ File A/E				

LOCATION: 50 Broadway
M/Hattery
circle one 7400
TECHNICIAN: C. H. E. L. A. M.
ANERA EPA LEVEL II KAMPAL

SAMPLE NUMBER	SAMPLE DESCRIPTION/LOCATION	SAMPLE TYPE	PUMP #	FLOWRATE START STOP	TIME ON OFF	TOTAL TIME	VOLUME (liters)	CONCENTR. (lb./cc.)
01	At northern end of corner opposite 36 ft	3		4	09:50 17:10	4:40	1760	
02	At northern end of corner opposite 36 ft	3		4	09:51 17:11	4:40	1760	
03	At center of road 36 ft	3		4	09:52 17:12	4:40	1760	
04	At corner east corner opposite 5 ft	3		4	09:53 17:13	4:40	1760	
05	At corner west corner opposite 5 ft	3		4	09:55 17:15	4:40	1760	
06	FIELD							
07	BLANK							
08								

COMMENTS:

790-80-601

SAMPLE BY: CHETRAM Ramon DATE: 08/12/20

SIGNATURE: Chapman Pearson

RELEASED BY: C:457 RAY Campa DATE: 08/10/02

SIGNATURE: *Edokam Korwa*

RECEIVED BY: C. Simola DATE: 8/13/02

RECEIVED BY: S. J. [Signature]

SIGNATURE:

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

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