

08/14/2002 18:53 FAX 718 794 4085

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AIRBORNE ASBESTOS ANALYSIS BY TRANSMISSION ELECTRON MICROSCOPY

PROJECT: NYC DEP, 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: (718) 784-7490

Fax: (718) 784-4085

LABORATORY RESULTS

CLIENT #	LAB. ID #	LOCATION	VOLUME (ft ³)	G.O.'s ANAL YZED	AREA ANALYZED (mm ²)	ANALYT. SENSITIV. (fibre/cm ²)	TOTAL ASBESTOS AIR CONC. (fibre/cm ³)	TOTAL ASBESTOS FILTER CONC. (fibre/cm ²)	AIR CONC. FOR STRUCT. 0.55S-5µm	AIR CONC. FOR STRUCT. >5.0µm	ASBEST. TYPE CHRY.	ANALYT. ASBEST. TYPE SPECIFY
01	T02-08-061-1509	At North east corner left side 36th floor	1760	4	0.0497	0.0044	<0.0044	<20.13	NA	NA	NA	NA
02	T02-08-061-1510	At North east corner right side 36th floor	1760	4	0.0497	0.0044	<0.0044	<20.13	NA	NA	NA	NA
03	T02-08-061-1511	At center of roof 36th floor	1760	4	0.0497	0.0044	<0.0044	<20.13	NA	NA	NA	NA
04	T02-08-061-1512	At North west corner left side 5th floor	1760	4	0.0497	0.0044	<0.0044	<20.13	NA	NA	NA	NA
05	T02-08-061-1513	At north west corner right side 5th floor	1760	4	0.0497	0.0044	<0.0044	<20.13	NA	NA	NA	NA

[Signature]
 ANALYST
 E. Dimitrakas

[Signature]
 LABORATORY DIRECTOR
 Spiro Dougatis

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 canisters 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.

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238 East 45th Street
New York, NY 10017
(212) 922-4072
Fax (212) 922-0630

WARREN & PANZER ENGINEERS, P.C.

AIR MONITORING LOG SHEET/CHAIN-OF-CUSTODY FORM

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

P.O.

PAGE 1 OF 1

CLIENT: NYC DEP
PROJECT: FRONT
LOCATION: 50 Broadway W/holding
TECHNICIAN: CHETSON KAMEN

W&P FILE #: 1029-01-02
LABORATORY: ANALYSIS METHOD PCM TEM TEM
circle one 7400 AHERA EPA LEVEL II

CONTACT: A. NARAN

SAMPLE NUMBER	SAMPLE DESCRIPTION/LOCATION	SAMPLE TYPE	PUMP #	FLOWRATE START STOP	TIME ON	TIME OFF	TOTAL TIME	VOLUME (liters)	CONCENTR. (lb./cc.)
01	At North East corner of 50 th St & Broadway	3		4	09:50	17:10	4:40	1760	
02	At North East corner of 50 th St & Broadway	3		4	09:51	17:11	4:40	1760	
03	At corner of 50 th St & Broadway	3		4	09:52	17:12	4:40	1760	
04	At corner of 50 th St & Broadway	3		4	09:53	17:13	4:40	1760	
05	At North East corner of 50 th St & Broadway	3		4	09:55	17:15	4:40	1760	
06	FILED								
07	BLANK								
08									

COMMENTS:

T02-08-061

SAMPLE BY: CHETSON KAMEN DATE: 08/15/02
SIGNATURE: Chetson Kamen
RELEASED BY: CHETSON KAMEN DATE: 08/15/02
SIGNATURE: Chetson Kamen
RECEIVED BY: C. Simon DATE: 8/13/02
SIGNATURE: C. Simon

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


ATHENICA

ENVIRONMENTAL SERVICES INC.

Tel. (718) 784-7490

Fax. (718) 784-1045

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: NYCDER, 50 Broadway

DATE OF REPORT: 08/13/02

DATE OF ANALYSIS: 08/13/02

 EFFECTIVE FILTER AREA (mm²): 385

AIRBORNE ASBESTOS ANALYSIS BY TRANSMISSION ELECTRON MICROSCOPY

LABORATORY RESULTS

CLIENT #	LAB. ID #	LOCATION	VOLUME (M)	G.O. 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. 0.5-5µm	AIR CONC. FOR STRUCT. 8-25µm	ASBEST. TYPE CHRYS.	AHERA 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

 ANALYST
E. Dimitrakas

 LABORATORY DIRECTOR
Spiro Donganis

LABORATORY CERTIFICATION NUMBERS: NYLAP 101958, 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.
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228 East 43rd Street
New York, NY 10017
(212) 922-0077
Fax (212) 922-0638

WARREN & PANZER ENGINEERS, P.C.

AIR MONITORING LOG SHEET/CHAIN-OF-CUSTODY FORM

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

P.O.

PAGE ____ OF ____

CLIENT:

AEP

W&P FILE #: 10

CONTACT:

M. M. M. M.

PROJECT: WTC-50 REPAIR
LOCATION: Bldg 200

TECHNICIAN:

LABORATORY:

ANALYSIS METHOD: PCM

circle one

7400

TEM
AHERA
EPA LEVEL II

SAMPLE NUMBER	SAMPLE DESCRIPTION/LOCATION	SAMPLE TYPE	PUMP #	FLOWRATE START STOP	TIME ON OFF	TOTAL TIME	VOLUME (liters)	CONCENTR. (lb/cc)
01	For 35 E-Unit	3		3	0835 1540	205	1155	
02	For 35 West	3		3	0636 1501	385	1155	
03	For 35 E-Unit	3		3	0837 1502	385	1155	
04	5 West	3		3	0840 1503	383	1149	
05	5 South	3		3	0844 1505	399	1137	
06	5 E-Unit							
07	5 E-Unit							
08	5 E-Unit							

COMMENTS:

T02-08-058

SAMPLE BY: D. Heston DATE: 8-11-02

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