

LAW OFFICES OF
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New Jersey, New York, Vermont

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June 4, 2003

M E M O R A N D U M

To: Gerould J. McCoy, Compliance Officer
cc: Mark D. Hoffer, Esq., General Counsel
From: A. Patrick Nucciarone, Monitor
re: Asbestos abatement at 66 John Street

I refer to your April 3, 2003 memo, which enclosed a memo from Deputy Commissioner Avaltroni regarding asbestos testing and abatement on the 10th Floor at 66 John Street in Manhattan. I would like more information about the actual cleaning methods used and the sampling results. Please furnish the following:

- a) the dates of the initial cleaning (the memo refers to the landlord's agreement to "re-clean" on April 1 through 4, 2003 with a "wet extraction method");
- b) a description of the actual methods used both on April 1 through 4, 2003 and on the earlier dates; and
- c) the results of the April 4, 2003 air sampling by BEC personnel..

I would appreciate the information by June 20, 2003.
Thank you.

Bob -
Could you
prepare a
draft response
and send to
me by 6/17/03?

[Signature]
Gyu

Specializing in the resolution of complex environmental disputes

Faxed to
Krish ✓
6/10/03

x



**Department of
Environmental
Protection**

59-17 Junction Boulevard
Flushing, New York
11373-5108

**Christopher O. Ward
Commissioner**

DRAFT

M E M O R A N D U M

TO: Gerould J. McCoy
Agency Compliance Officer
Office of Environmental Health and Safety Compliance

FROM: Robert C. Avaltroni *RC*
Deputy Commissioner
Bureau of Environmental Compliance

DATE: June 16, 2003

SUBJECT: 66 John Street

Please find the additional information related to 66 John Street.

Carpeting was cleaned with water extraction methods. Water extraction methods include the use of industrial-quality HEPA-filtered vacuums with power extraction. Water is sprayed on the carpet surface. The carpet fibers are agitated and the water is extracted from the carpeting.

The USEPA tested various cleaning methods after the WTC and found that the use of standard cleaning methods of vacuuming and wet wiping significantly reduced levels of WTC-related contamination with each cleaning event and was successful in reducing concentrations.

Information provided to the DEP Asbestos Control Program (ACP) Enforcement Staff indicated the carpets were cleaned several times between September 11, 2003 and April 2003 through the use of carpet shampoos and water extraction. In addition, the staff was informed that the building is on a periodic cleaning program cycle. Specific dates are not available in the ACP files, but should be available from the building owner and/or cleaning contractor. The last set of cleaning at DEP's request began on April 1, 2003 and was completed on April 4, 2003.

The air sampling was performed on April 5, 2003 rather than on April 4, 2003 as had originally been projected. The sample results are attached for your perusal.

Please feel free to call me if you need additional information.

Attachments



(718) DEP-HELP



U.S. Environmental Protection Agency - Region 2

New Jersey, New York, Puerto Rico and the U.S. Virgin Islands
290 Broadway - New York, New York 10007-1866

www.epa.gov/region2

Contact: Mary Mears 212-637-3669

**EPA RELEASES STUDY THAT SHOWS RECOMMENDED METHODS
FOR CLEANING WORLD TRADE CENTER DUST WORK**

FOR RELEASE: Wednesday, June 4, 2003

(#03064) New York, New York - The U.S. Environmental Protection Agency (EPA) today released the results of a study confirming that cleaning methods used by residents and professionals in lower Manhattan in the aftermath of the World Trade Center collapse are effective. In its Confirmation Cleaning Study, the Agency tested a variety of cleaning methods in a heavily impacted building near Ground Zero. The Agency also released its study of levels of pollution in homes not impacted by the collapse. Both studies were funded by the Federal Emergency Management Agency and conducted in cooperation with New York City.

EPA conducted its Confirmation Cleaning Study to determine the adequacy of various methods that were used by residents and professional cleaning companies to clean World Trade Center (WTC) dust in residential spaces in lower Manhattan. For its study, EPA used a five-story, mixed use building containing thirteen apartments and five commercial spaces located at 110 Liberty Street. The apartments and businesses in this building had varying amounts of dust and debris present after the World Trade Center collapse. EPA tested the effectiveness of several different cleaning techniques, including using high efficiency particulate air (HEPA) filtered vacuums, mops and wet cloths. In addition, the Agency cleaned carpets and cleaned air ducts using standard methods. Before and after cleaning, EPA tested for lead, dioxin, polycyclic aromatic hydrocarbons (PAHs), man-made vitreous fibers (fibrous glass) and crystalline silica and tested the air for asbestos. The study found that the cleaning methods all reduced concentrations of WTC-related contaminants to levels below health-based benchmarks. In some cases, repeated cleaning was necessary. The results are reassuring and show that residents who followed the recommendations are likely to have effectively eliminated the potential threat posed by residual WTC dust. The Agency recommends that any resident who may have lingering concerns about dust in their homes clean several times using methods EPA has recommended since September 2001, which include wet wiping and mopping, and the use of a HEPA vacuum. These methods will allow residents to be certain that they have removed as much of the dust as possible.

EPA also conducted a Background Study to determine indoor concentrations of contaminants of potential concern in areas of New York City that were not physically impacted by the dust or debris from the WTC collapse. The data collected from this study are consistent with other studies and background data.

For full reports of these studies or for more information on EPA's Indoor Air Residential Assistance Program, visit the Agency's Web site at www.epa.gov/wtc.

#

New York City Department of Environmental Protection
Asbestos Control Program

66 John Street, Manhattan
9th and 10th Floors

Commissioner Ward received information from NYCDEP employees concerned about the results of a carpet sample taken from the 10th floor of 66 John Street. The Commissioner contacted the Bureau of Environmental Compliance (BEC) and the Office of Environmental Health & Safety Compliance (OEHSC). OEHSC then provided the BEC Asbestos Control Program (ACP) with the result of the carpet sonication sample. The sample result was an excerpt of a report which neither ACP, OEHSC nor the Commissioner has received. The sample result indicated a concentration of 393,061 structures/cm². Carpet sonication is not a New York State Department of Health approved method for the collection and analysis of asbestos-containing or asbestos-contaminated material. Further, this sampling method has not been adopted as a Federal, State or local standard.

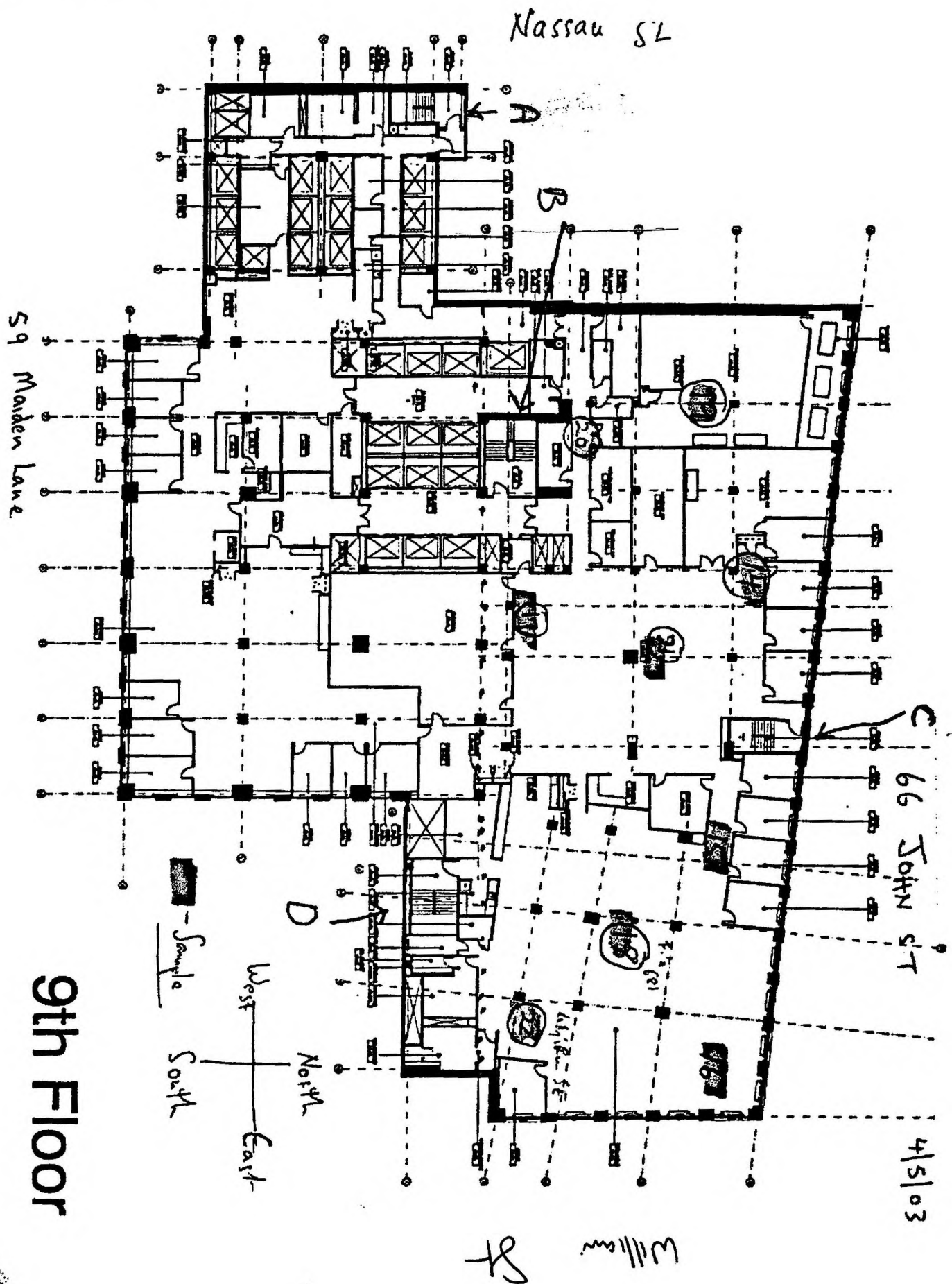
A single direct relationship between asbestos-containing dust and potential human exposure has not been established. Although, a direct relationship between dust levels and exposure has been documented for other contaminants, e.g. lead, this relationship has not been documented for asbestos fibers probably due to the unique aerodynamic aspects of asbestos fibers. Asbestos fibers do not pose a health hazard unless the fibers become airborne and are inhaled.

The ACP had responded to calls from concerned building occupants and reviewed air and bulk sample results received from the building owner. ACP then conducted site visits at the building. These site visits did not disclose the presence of visible debris within the interior of the building. According to the information in the ACP records, 54 air samples were collected within the building on September 14th, 15th, and 16th, 2001. The samples were analyzed by phase contrast microscopy and were each below 0.01f/cc. Ten bulk samples were collected from exterior surfaces during early July 2002. The results indicated the material was not ACM. On November 1, 2002, 9 additional bulk samples were collected from building exterior surfaces. The results indicated the material was not asbestos-containing material.

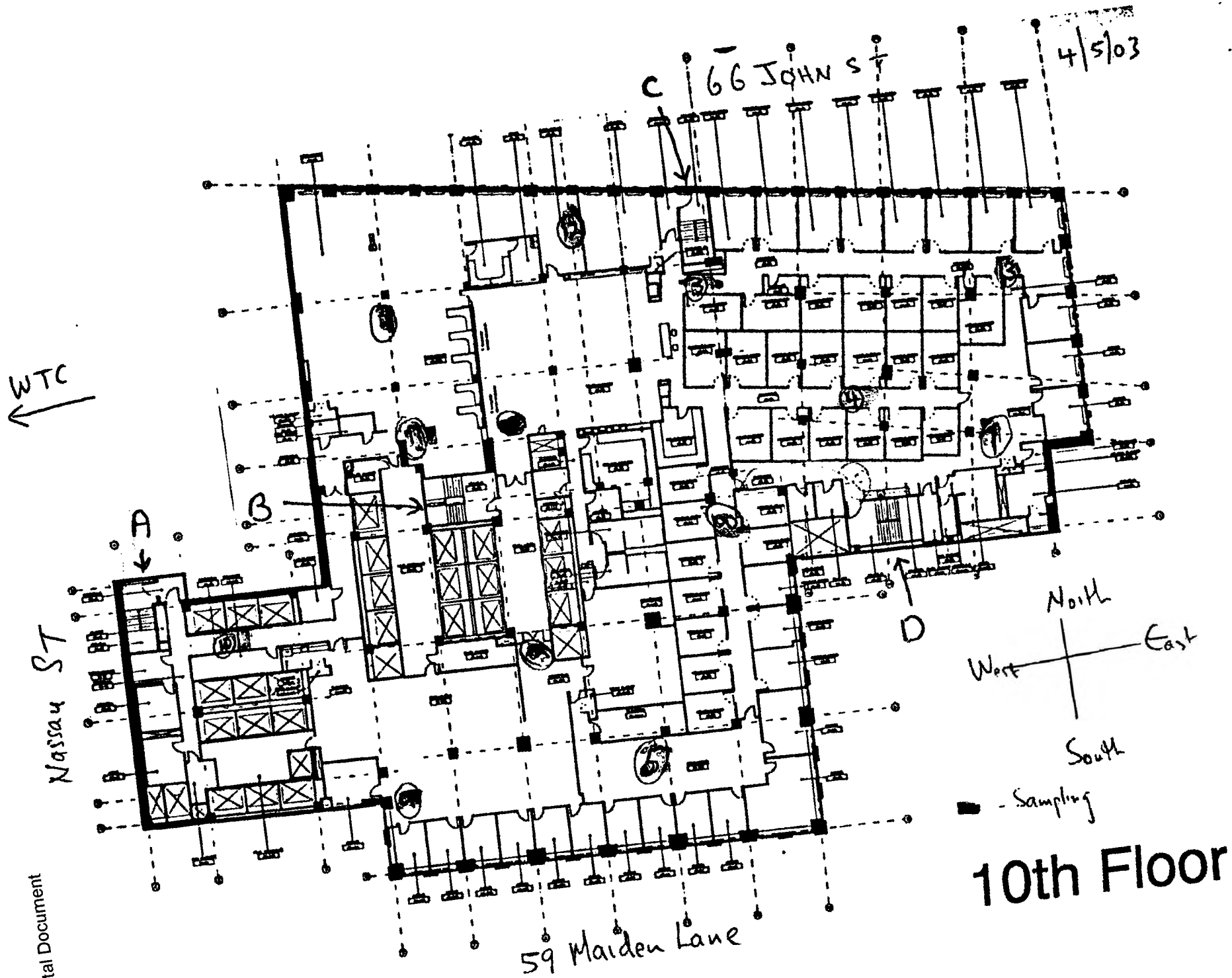
As a result of complaints, the building owner initiated air sampling on March 7, 2003. The air samples were collected on the 9th, 10th, and 11th floors. The samples were analyzed by phase contrast microscopy (PCM) and transmission electron microscopy (TEM). The samples were below the clearance levels. Specifically, the clearance level for PCM samples is 0.01 f/cc and for TEM samples is 70 s/mm². The ACP asked for and reviewed the data from the air samples after it became aware of complaints regarding the above premises.

Although, the results of several previous site visits and the review of submitted results did not indicate a requirement for further action, the Commissioner requested the building owner to re-clean the carpeting. The building owner agreed to the request and initiated cleaning of the carpet using wet extraction procedures. The cleaning began on April 1, 2003 and is expected to be completed by April 4, 2003. BEC will perform air sampling on April 4, 2003. The results will be evaluated using the clearance criteria indicated above.

4/3/03



9th Floor



34/07/2003 15:41 FAX

2

AIR MONITORING DATA SHEET
&
CHAIN OF CUSTODY FORM

T03-04-006

PROJECT INFORMATION

1. PROJECT NAME: <u>Monteflon ECB 10F/002</u>		2. ADDRESS: <u>59 Maiden Lane 166 John St.</u>		3. BORO: <u>Manhattan</u>
4. DATE: <u>4-5-03</u>	5. AIR MONITOR: <u>Ahmad Soloki</u>	6. (a) Background: <u> </u> (b) OSHA: <u> </u> (c) Pre-Abate: <u> </u> (d) Post-Abate: <u> </u> (e) Abatement: <u> </u> (f) Ambient: <u> </u> (g) PCM (0.8µMCE) <u> </u> (h) TEM (0.45µMCE) <u>X</u>		

AIR SAMPLING DATA

ROTMETER No:

SAMPLING TIME

FLOW RATE OF PUMP (l/min)

7. Sample ID	8. Pump No.	9. Sample Location	10. Start Time	11. End Time	12. Total Mins	13. Start Flow	14. End Flow	15. Avg Flow	16. Total Vol (L)	17. ME STA
302/001	2	WAITING Room entrance Room	11:25 AM	11:35 AM	150	10	10	10	1500	219.50
302/002	1	WORKING AREA North	11:07 AM	11:37 AM	150	10	10	10	1500	219.50
302/003	6	WAITING AREA John St. SIDE EXIT North	11:10 AM	11:40 AM	150	10	10	10	1500	219.50
302/004	5	IFO hearing Room #27	11:13 AM	11:43 AM	150	10	10	10	1500	219.50
302/005	4	IFO hearing RM 645	11:15 AM	11:45 AM	150	10	10	10	1500	219.50

CHAIN OF CUSTODY

Turnaround Time: 2hrs 4hrs 24hrs 48hrs 72hrs

18. Relinquished by	19. Received by	20. Date	21. Time	22. Analysis Requested
A. Soloki	L. ATTALONE	4/05/03	2:00 PM	WOSH 7408: <u> </u> AHRA: <u>X</u> OTHER: <u> </u>
A. Soloki	L. ATTALONE	4/5/03	4:00 PM	
L. ATTALONE	E. Spaulski			
A. Soloki				

New York City Department of Environmental Protection
Bureau of Air, Noise & Hazardous Materials
Division of Emergency Response and Technical Assessment
96-05 Horne Harding Expressway
Corona, New York 11368

0008

201 P

BANIM LABORATORY UNIT

APR-07-2003 17:39

NYC-WTC_000156132

AIR MONITORING DATA SHEET
&
CHAIN OF CUSTODY FORM

T03-04-006

①

PROJECT INFORMATION

1. PROJECT NAME:		2. ADDRESS: 66 JOHN STREET		3. BORO: MAN
4. DATE: 4/5/03	5. AIR MONITOR: GEORGE ANAKHU		6. (a) Background: — (b) OSMA: — (c) Pre-Abate: — (d) Post-Abate: — (e) Abatement: — (f) Ambient: — (g) PCM (0.0µMCE) — (h) TEM (0.45µMCE) X	

AIR SAMPLING DATA

ROTMETER No:

SAMPLING TIME

FLOW RATE OF PUMP (L/min)

1. Sample ID	2. Pump No.	3. Sample Location	4. Start Time	5. End Time	6. Total Vol (L)	7. Start Flow	8. End Flow	9. Avg. Flow	10. Total Vol (L)	11. ASB-57R
L03/006	6	10 th FL ENTRANCE MARDEN LANE SIDE	11:10	11:10	150	10	11	10.3	1500	419.50
007	7	10 th FL SOUTH OF ROOM 35	11:10	11:55	150	10	10	10.0	1500	419.50
008	8	10 th FL JANTRY STAIR CASE	11:30	2:00	150	10	10	10.0	1500	419.50
Field Blank										
Field Blank										

CHAIN OF CUSTODY

Turnaround Time: 2hrs — 6hrs — 24hrs — 48hrs — 72hrs —

1. Relinquished by	2. Received by	3. Date	4. Time	5. Analysis Requested
GEORGE ANAKHU	L. ATTILONE	04/05/03	2:10 PM	NIOSH 7400: — AHRA: X OTHER: —
George Anakhu	X. Attalony	4/5/03	4:00 PM	— — —
L. ATTILONE	E. Simberi			
L. Attalony	X			

New York City Department of Environmental Protection
Bureau of Air, Noise & Hazardous Materials
Division of Emergency Response and Technical Assessment
96-85 Horne Harding Expressway
Corona, New York 11368

LEONARD ATTILONE (917) 769-0129
FAX # (718) 595-6307

04/07/2003 15:42 FAX

AIR MONITORING DATA SHEET
&
CHAIN OF CUSTODY FORM

T03-04-006

PROJECT INFORMATION

1. PROJECT NAME: 66 JONES ST 10th Floor ADDRESS: 66 JONES ST 2. PORT: MN.

3. DATE: 4/5/03 4. AIR MONITOR: Emmanuel Beatus

5. (a) Background: (b) OSHA: (c) Pre-Abate: (d) Post-Abate: (e) Abatement: (f) Ambient: (g) PCM (0.8µMCE) (h) TEM (0.45µMCE) X

AIR SAMPLING DATA

ROTMETER No:

SAMPLING TIME

FLOW RATE OF PUMP (L/min)

Sample ID	Pump No.	Sample Location	Start Time	End Time	Total Min	Start Flow	End Flow	Avg Flow	Total Vol (L)	Asst. 5th
307/009	9	South West Corner Madison Ln & Nelson St	11:12	01:48	256	10	10	10	1560	219.50
307/010	10	Pantry Area	11:15	01:51	156	10	10	10	1560	219.50
307/011	11	Corridor between Electrical Closet & Storage	11:18	01:53	155	10	10	10	1560	219.50
307/012	12	John St Side by cuticle 32-10th	11:22	01:53	159	10	10	10	1530	219.50
307/013	13	Area of Room 22 & 23, Corner John St & William St	11:25	01:57	152	10	10	10	1520	219.50

CHAIN OF CUSTODY

Turnaround Time: 2hrs 4hrs 24hrs 48hrs 72hrs

Relinquished by	Received by	Date	Time	Analysis Requested
E. Beatus	L. ATTENORNEY	04/05/03	2:01 PM	NIOSH 7600:
E. Beatus	A. Attelony			ANRA: X
L. ATTENORNEY	E. Siytki	4/5/03	4:00 PM	OTHER:
A. Attelony				

New York City Department of Environmental Protection
Bureau of Air, Noise & Hazardous Materials
Division of Emergency Response and Technical Assessment
96-03 Horace Harding Expressway
Corona, New York 11368

0008

NYC-WTC_000156134

P.04

BANIM LABORATORY UNIT

APR-07-2003 17:41


ATHENICA

ENVIRONMENTAL SERVICES INC.

Tel (718) 784-7490

Fax (718) 784-4085

AIRBORNE ASBESTOS ANALYSIS BY TRANSMISSION ELECTRON MICROSCOPY

CLIENT: NYC DEP

LABORATORY ID #: T03-04-006

ANALYT. METHODOLOGY: AHERA

FILTER TYPE: M.C.E.

 AVERAGE G.O. AREA (mm²): 0.012820

PROJECT: 66 John Street.

DATE OF REPORT: 04/07/03

DATE OF ANALYSIS: 04/05/03

 EFFECTIVE FILTER AREA (mm²): 385

LABORATORY RESULTS

CLIENT #	LAB. ID #	LOCATION	VOLUME (l)	G.O.'s ANALYZED	AREA ANALYZED (mm ²)	ANALYT. SENSITIV. (struct./cm ²)	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
Lab3 006	T03-04-006-638	10 th floor entrance Maiden Lane side	1550	4	0.0513	0.0048	<0.0048	<19.50	NA	NA	NA	NA
Lab3 007	T03-04-006-639	10 th floor south of room 35	1500	4	0.0513	0.0050	<0.0050	<19.50	NA	NA	NA	NA
Lab3 008	T03-04-006-640	10 th floor pantry stair case	1500	4	0.0513	0.0050	<0.0050	<19.50	NA	NA	NA	NA
102/001	T03-04-006-641	Waiting room entrance	1500	4	0.0513	0.0050	<0.0050	<19.50	NA	NA	NA	NA
102/002	T03-04-006-642	Working area north	1500	4	0.0513	0.0050	<0.0050	<19.50	NA	NA	NA	NA

 ANALYST
B. Sioukri

 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.
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ATHENICA

ENVIRONMENTAL SERVICES INC.

Tel (718) 784-7490

Fax (718) 784-4085

AIRBORNE ASBESTOS ANALYSIS BY TRANSMISSION ELECTRON MICROSCOPY

CLIENT: NYC DEP

LABORATORY ID #: T03-04-006

ANALYT. METHODOLOGY: AHERA

FILTER TYPE: M.C.E.

 AVERAGE G.O. AREA (mm²): 0.012820

PROJECT: 66 John Street

DATE OF REPORT: 04/07/03

DATE OF ANALYSIS: 04/05/03

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LABORATORY RESULTS

CLIENT #	LAB. ID #	LOCATION	VOLUME (l)	G.O.'s ANALYZED	AREA ANALYZED (mm ²)	ANALYT. SENSITIV. (struct./cm ²)	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
302/003	T03-04-006-643	Waiting area John St. side exit north	1500	4	0.0513	0.0050	<0.0050	<19.50	NA	NA	NA	NA
302/004	T03-04-006-644	IPO hearing room #27	1500	4	0.0513	0.0050	<0.0050	<19.50	NA	NA	NA	NA
302/005	T03-04-006-645	IPO hearing room #45	1500	4	0.0513	0.0050	<0.0050	<19.50	NA	NA	NA	NA
307/009	T03-04-006-646	South west corner Maiden Lane & Nassau St.	1560	4	0.0513	0.0048	<0.0048	<19.50	NA	NA	NA	NA
307/010	T03-04-006-647	Pantry Area	1560	4	0.0513	0.0048	<0.0048	<19.50	NA	NA	NA	NA

 ANALYST
E. Sioukri

 LABORATORY DIRECTOR
Spiro Dangaris

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ATHENICA

ENVIRONMENTAL SERVICES INC.

Tel (718) 784-7490

Fax (718) 784-4885

AIRBORNE ASBESTOS ANALYSIS BY TRANSMISSION ELECTRON MICROSCOPY

CLIENT: NYC DEP

LABORATORY ID #: T03-04-006

ANALYT. METHODOLOGY: AHERA

FILTER TYPE: M.C.E.

 AVERAGE C.O. AREA (mm²): 0.012820

PROJECT: 66 John Street

DATE OF REPORT: 04/07/03

DATE OF ANALYSIS: 04/05/03

 EFFECTIVE FILTER AREA (mm²): 385

LABORATORY RESULTS

CLIENT #	LAB. ID #	LOCATION	VOLUME (ft)	G.O.'s ANALYZED	AREA ANALYZED (mm ²)	ANALYT. SENSITIV. (fibers/cm ²)	TOTAL ASBESTOS AIR CONC. (fibers/cm ³)	TOTAL ASBESTOS FILTER CONC. (fibers/cm ²)	AIR CONC. FOR STRUCT. 0.5<S<5µm	AIR CONC. FOR STRUCT. S≥5.0µm	ASBEST. TYPE CHRYS.	AMPHIB. ASBEST. TYPE SPECIFY
307/011	T03-04-006-648	Corridor between electrical closet & file storage 10C	1550	4	0.0513	0.0048	<0.0048	<19.50	NA	NA	NA	NA
307/012	T03-04-006-649	John Street by cubicle 32-10 th	1530	4	0.0513	0.0049	<0.0049	<19.50	NA	NA	NA	NA
307/013	T03-04-006-650	Area of room 22&23 corner John St. & William St.	1520	4	0.0513	0.0049	<0.0049	<19.50	NA	NA	NA	NA

 ANALYST
E. Sioukri

 LABORATORY DIRECTOR
Spiro Dongaris

LABORATORY CERTIFICATION NUMBERS: NVLAP 101958, ELAP 10955

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APR-08-2003 15:39

BANHM LABORATORY UNIT

P.02/06

AIR MONITORING DATA SHEET

CHAIN OF CUSTODY FORM

PROJECT INFORMATION

1. PROJECT NAME: <u>Monmouth EcB</u>	2. ADDRESS: <u>59 Madison Ave</u>	3. BORO: <u>Mon</u>
4. DATE: <u>1-5-03</u>	5. AIR MONITOR: <u>Air mod 80661</u>	6. PRE-ABATE: <u>(d) Post Abate</u>
7. (a) Background: <u>---</u> (b) OSM: <u>---</u> (c) Pre-Abate: <u>---</u> (d) Abatement: <u>---</u> (e) Ambient: <u>---</u> (f) PCM (0.5-1.2) <u>---</u> (g) TEM (0.45-1.2) <u>---</u>		

AIR SAMPLING DATA

[illegible]

CHINA OF CISTORY

1. Requisitioned by	2. Received by	3. Date	4. Time	5. Analysis Requested
' A. Solak'	'			NIOSH 7400: _____
' <i>bb</i>	'			MEHA: _____
'	' E. Simpson	4/5/03	7:10 PM	OTHER: _____
'	'			_____
'	'			_____
'	'			_____

**New York City Department of Environmental Protection
Bureau of Air, Noise & Hazardous Materials
Division of Emergency Response and Technical Assistance
96-65 Horace Harding Expressway
Corona, New York 11368**

APR-06-2003 15:39

BAMM LABORATORY UNIT

P. 03/06

AIR MONITORING DATA SHEET
&
CHAIN OF CUSTODY FORM

703-04-007

PROJECT INFORMATION

1. PROJECT NAME:	2. ADDRESS: 66 JOHN STREET		3. HORO: MN
4. DATE: 4/5/03	5. AIR MONITOR: GEORGE ANAKHU	6. (a) Background: (b) OSHA: (c) Pre-Absorb: (d) Post-Absorb: (e) Absorbent: (f) Ambient: (g) PCM (8.0µMCE) (h) TEM (0.45µMCE)	

AIR SAMPLING DATA

ROTONETER No:

SAMPLING TIME

FLOW RATE OF PUMP (L/min)

7. Sample ID	8. Pump No.	9. Sample Location	10. Start Time	11. End Time	12. Total Flow	13. Start Flow	14. End Flow	15. Avg. Flow	16. Total Vol (L)	17. Air Strs CC
1403/017	17	9 th FL DOF/CENTRAL FILE (OUTSIDE)	2:40	5:10	150	10	10	10	1500	1000
018	18	9 th FL FILE 681	2:55	5:35	150	10	10	10	1500	1000
020	22	9 th FL LADIES ROOM (OUTSIDE OF)	3:00	5:30	150	10	10	10	1500	1000

CHAIN OF CUSTODY

Turnaround Time: 2hrs 4hrs 20hrs 48hrs 72hrs

18. Relinquished by	19. Received by	20. Date	21. Time	22. Analysis Requested
GEORGE ANAKHU	A-Sokolci	04/05/03	6:30 PM	HOUSE 200: ☒ OTHER: ☐
GEORGE ANAKHU	D.D.	4/5/03	7:10 PM	HOUSE 200: ☒ OTHER: ☐
	E. Sienka			HOUSE 200: ☒ OTHER: ☐
				HOUSE 200: ☒ OTHER: ☐
				HOUSE 200: ☒ OTHER: ☐
				HOUSE 200: ☒ OTHER: ☐

New York City Department of Environmental Protection
 Bureau of Air, Noise & Hazardous Materials
 Division of Emergency Response and Technical Assessment
 96-05 Horace Harding Expressway
 Corona, New York 11368

APR-07-2003 17:04

96%

P. 03

APR-08-2003 15:40

BAMM LABORATORY UNIT

P. 04/05

AIR MONITORING DATA SHEET
&
CHAIN OF CUSTODY FORM

T03-04-007

PROJECT INFORMATION

1. PROJECT NAME: <u>ECB, Manhattan</u>		2. ADDRESS: <u>66 John St</u>		3. BORO: <u>Manh</u>	
4. DATE: <u>4/5/03</u>	5. AIR MONITOR: <u>Emmanuel Brutus</u>		6. (a) Background: ___ (b) OSMA: ___ (c) Pre-Abate: ___ (d) Post-Abate: ___ (e) Abatement: ___ (f) Ambient: ___ (g) PCM (0.6µMCE) ___ (h) TEM (0.45µMCE) ___		

AIR SAMPLING DATA

ROTORMETER No:

SAMPLING TIME

FLOW RATE OF PUMP (L/min)

7. Sample ID	8. Pump No.	9. Sample Location	10. Start Time	11. End Time	12. Total Mins	13. Start Flow	14. End Flow	15. Avg. Flow	16. Total Vol (L)	17. 15% TSP (µg/m³)	18. 15% PM10 (µg/m³)
307/019		Next to 'DOF Imaging' Room	2:25	4:55	150	10	10	10	1500	6.00	11
307/020		Next to 'Central File' Room	2:27	4:57	150	10	9.5	9.75	1462.50	6.00	11
307/021		At the center of front of vehicle #28	2:40	5:10	150	10	10	10	1500	6.00	11
		Floral Room									

CHAIN OF CUSTODY

Turnaround Time: 2hrs ___ 6hrs ___ 24hrs ___ 48hrs ___ 72hrs ___

19. Relinquished by	20. Received by	21. Date	22. Time	23. Analysis Requested
E. Brutus	A. Sogici	04/05/03	5:30 PM	NIOSH 7400: _____ AMRA: _____ OTHER: _____
E. R.	J. S.			
	E. S. Jankin	4/5/03	7:10 PM	

New York City Department of Environmental Protection
Bureau of Air, Noise & Hazardous Materials
Division of Emergency Response and Technical Assessment
96-05 Horne Harding Expressway
Corona, New York 11368

NYC-WTC_000156140

APR-07-2003 17:05

97%

P. 04

APR-08-2003 15:41

BRINM LABORATORY UNIT

P.05/06



ATHENICA
ENVIRONMENTAL SERVICES INC.
Tel (718) 784-7498
Fax (718) 784-4085

AIRBORNE ASBESTOS ANALYSIS BY TRANSMISSION ELECTRON MICROSCOPY

CLIENT: NYC DEP
LABORATORY ID #: T03-04-007
ANALYT. METHODOLOGY: AHERA
FILTER TYPE: M.C.E.
AVERAGE G.O. AREA (mm²): 0.012820

PROJECT: 59 Maiden Lane & 66 John Street.
DATE OF REPORT: 04/07/03
DATE OF ANALYSIS: 04/05/03
EFFECTIVE FILTER AREA (mm²): 385

LABORATORY RESULTS

CLIENT #	LAB. ID #	LOCATION	VOLUME (#)	G.O. ANALYZED	AREA ANALYZED (mm ²)	ANALYT. SENSITIVITY (struct./mm ²)	TOTAL ASBESTOS AIR CONC. (struct./cm ³)	TOTAL ASBESTOS FILTER CONC. (str./mm ²)	AIR CONC. FOR STRUCT. 0.5-5.0 μm	AIR CONC. FOR STRUCT. 5-10 μm	ASBEST. TYPE CHRYS.	AMPHIB. ASBEST. TYPE SPECIFY
Lab37022	T03-04-007-656	9 th floor ladies room (outside of)	1500	4	0.0513	0.0050	<0.0050	<19.50	NA	NA	NA	NA
3077019	T03-04-007-657	Next to DOP imaging room	1500	4	0.0513	0.0050	<0.0050	<19.50	NA	NA	NA	NA
3077020	T03-04-007-658	Next to Central file room	1462.50	5	0.0641	0.0041	<0.0041	<15.60	NA	NA	NA	NA
3077021	T03-04-007-659	At the center in front of cubicle #28	1500	4	0.0513	0.0050	<0.0050	<19.50	NA	NA	NA	NA


ANALYST
E. Sioukri


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.


ATHENICA

ENVIRONMENTAL SERVICES INC.

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AIRBORNE ASBESTOS ANALYSIS BY TRANSMISSION ELECTRON MICROSCOPY

CLIENT: NYC DEP

LABORATORY ID #: T03-04-007

ANALYT. METHODOLOGY: AHERA

FILTER TYPE: M.C.E.

 AVERAGE G.O. AREA (mm²): 0.012820

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LABORATORY RESULTS

CLIENT #	LAD. ID #	LOCATION	VOLUME (L)	G.O.'s ANALYZED	AREA ANALYZED (mm ²)	ANALYT. SENSITIV. (struc./cm ²)	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
302/014	T03-04-007-651	North side/John St. side -Nassau	1500	4	0.0513	0.0050	<0.0050	<19.50	NA	NA	NA	NA
302/015	T03-04-007-652	North side/John St. side	1500	4	0.0513	0.0050	<0.0050	<19.50	NA	NA	NA	NA
302/016	T03-04-007-653	North side/John St. side-William	1500	4	0.0513	0.0050	<0.0050	<19.50	NA	NA	NA	NA
Lab3/017	T03-04-007-654	9 th floor DOP/central file (outside of)	1500	4	0.0513	0.0050	<0.0050	<19.50	NA	NA	NA	NA
Lab3/018	T03-04-007-655	9 th floor file 681 (outside of)	1500	4	0.0513	0.0050	<0.0050	<19.50	NA	NA	NA	NA

 ANALYST
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 LABORATORY DIRECTOR
Spiro Dongaris

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TOTAL P.06

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U.S. Environmental Protection Agency - Region 2

New Jersey, New York, Puerto Rico and the U.S. Virgin Islands
290 Broadway - New York, New York 10007-1866

www.epa.gov/region2

Contact: Mary Mears 212-637-3669

**EPA RELEASES STUDY THAT SHOWS RECOMMENDED METHODS
FOR CLEANING WORLD TRADE CENTER DUST WORK**

FOR RELEASE: Wednesday, June 4, 2003

(#03064) New York, New York - The U.S. Environmental Protection Agency (EPA) today released the results of a study confirming that cleaning methods used by residents and professionals in lower Manhattan in the aftermath of the World Trade Center collapse are effective. In its Confirmation Cleaning Study, the Agency tested a variety of cleaning methods in a heavily impacted building near Ground Zero. The Agency also released its study of levels of pollution in homes not impacted by the collapse. Both studies were funded by the Federal Emergency Management Agency and conducted in cooperation with New York City.

EPA conducted its Confirmation Cleaning Study to determine the adequacy of various methods that were used by residents and professional cleaning companies to clean World Trade Center (WTC) dust in residential spaces in lower Manhattan. For its study, EPA used a five-story, mixed use building containing thirteen apartments and five commercial spaces located at 110 Liberty Street. The apartments and businesses in this building had varying amounts of dust and debris present after the World Trade Center collapse. EPA tested the effectiveness of several different cleaning techniques, including using high efficiency particulate air (HEPA) filtered vacuums, mops and wet cloths. In addition, the Agency cleaned carpets and cleaned air ducts using standard methods. Before and after cleaning, EPA tested for lead, dioxin, polycyclic aromatic hydrocarbons (PAHs), man-made vitreous fibers (fibrous glass) and crystalline silica and tested the air for asbestos. The study found that the cleaning methods all reduced concentrations of WTC-related contaminants to levels below health-based benchmarks. In some cases, repeated cleaning was necessary. The results are reassuring and show that residents who followed the recommendations are likely to have effectively eliminated the potential threat posed by residual WTC dust. The Agency recommends that any resident who may have lingering concerns about dust in their homes clean several times using methods EPA has recommended since September 2001, which include wet wiping and mopping, and the use of a HEPA vacuum. These methods will allow residents to be certain that they have removed as much of the dust as possible.

EPA also conducted a Background Study to determine indoor concentrations of contaminants of potential concern in areas of New York City that were not physically impacted by the dust or debris from the WTC collapse. The data collected from this study are consistent with other studies and background data.

For full reports of these studies or for more information on EPA's Indoor Air Residential Assistance Program, visit the Agency's Web site at www.epa.gov/wtc.

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