NYC 9/11 Public Portal Document

U.S. Environmental Protection Agency
Air / Bulk / Wipe Sampling Situation Report
Friday, September 21, 2001 (12:00pm)

Fixed Ambient Air Sampling Locations (Asbestos)

- NYC / ER
  - Round 10 (Sept 19, 2am - 10 am) - One sample marginally high with PCM analysis (Location J - West St / Warren St.). Confirmed non-detect with TEM.
  - Round ?? (not listed) (Sept 19 - Sept20, 5pm - 2am) - One marginally high with PCM analysis (Location G - Liberty St / South End Ave). Confirmed non-detect with TEM.
  - Round ?? (Sept 20, 2am - 10am) - One PCM analysis at criteria of 0.01 F/cc (Location F - West St. / Vessey St.). Confirmed non-detect with TEM
- New Jersey
  - Sept 18 (addition samples) and Sept 19 - All less than Detectable Levels

NYC Bulk Samples

- Sept 19 - 12 out of 16 with results 1 - 2.1 %, with most samples collected in the general area(s) of Stuyvesant HS and Battery Park.
- Sept 20 - All samples were Non-Detects with most samples collected within 2-3 blocks of the WTC

Landfill Air Sampling locations (Asbestos)

- Sept 19 / Sept 20
  - 3 Rounds of data
  - 25 of 27 were reported as less than detectable levels
  - All samples below OSHA PEL of 0.1 fibers/cc
- Particulate Monitoring Sept 18 - 20
  - Using 3x background for implementation of Dust Suppression Measures
  - All data collected, with exception of screening area, was well below the 3x Number.

Wipe Samples (metals) Analysis

- 6 samples collected at Jacob Javits Center (no EPA criteria Available)
- Lead Results are well below the HUD criteria (50 ug/ft^2)
- While no specific standards are available, the most toxic other metals (i.e. As, Be, Cd, Cr, etc.) were either Non Detects or trace.

Direct Reading Instruments

- Nothing of significance identified
- All data considered suspect due to moisture on that day

TOTAL P.02

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NYC-WTC_000332146

NYC Response
Asbestos Air Sampling Results at Fixed Locations (Round 10)

			Sample		PCM NIOSH 7400		TEM (AHERA)	
Date	Sample No.	S.L	Volume	Matrix	f/MM2	f/cc	<5μ (>5μ) S (f)	S/MM2 (S~f/cc)
9/19/01	552	G	471	Air	<7	<0.006		<0.0064
9/19/01	554	A	480	Air	<7	<0.006		<0.0064
9/19/01	556	B	480	Air	11.46	0.009		<0.0064
9/19/01	558	C	81	Air	<7	<0.033		<0.0380
9/19/01	564	D	480	Air	4.92	0.007		<0.0064
9/19/01	568	E	480	Air	<7	<0.006		<0.0064
9/19/01	580	H	480	Air	<7	<0.006		<0.0064
9/19/01	562	I	480	Air	11.46	0.009		<0.0064
9/19/01	571	J	480	Air	15.29	0.012		<0.0064
9/19/01	566	K	480	Air	10.19	0.008		<0.0064
9/19/01	575	N	480	Air	<7	<0.006		<0.0064

NA: not analyzed due to overloading of particulates
PCM: NIOSH 7400
Asbestos Fiber Analysis by Transmission Electron Microscopy (TEM) EPA 40CFR Part 763 (AHERA), S.L: Sampling Locations
Sample volume is below recommended limit of the method; ~480 Liters
'Structure (S) Roughly equivalent to Fiber (F)
Standard criteria: EPA 40CFR Part 763 (AHERA): 0.01fiber/cc (PCM), 70S/mm2, volume 1200L, for 25MM filter (TEM)
A: Intersection of Barclay+West Broadway
B: Intersection of Church+Dey St. Round 10 :2:00AM -10:00AM (9/19).
C: Intersection of Liberty+Trinity
D: Intersection of Greenwich+Albany;
E: Intersection of Liberty+South End Ave. E**: Duplicate
F: Intersection of Vesey+West St.
G: Intersection of Church and Duane
H: One Chase Plaza
I: Wall Street+Broadway
J: Corner of West and Warren
K: Corner of Albany and West
N: West Side Highway/ near community college ERT 9/28/01

4/21/01

CITY_DEP_WORBY_CANNATA_SUBP_000035234

NYC-WTC_000332147

NYC 9/11 Public Portal Document

NYC Response

Asbestos Air Sampling Results at Fixed Locations

Sampling Time: 5.00 PM 9/19/01 to 2.00 AM 9/20/01

Figure B (cont'd)

			Sample		PCM NIOSH 7400		TEM (AHERA)	
Date	Sample No.	S.L	Volume	Matrix	f/MM^2	f/cc	<5μ (>5μ) S (#)	S/MM^2 (S~f/cc)
9/20/01	01443	A	480	Air	<7.0	<0.006		<8.0 (<0.0064)
9/20/01	01445	B	480	Air	<7.0	<0.006		<8.0 (<0.0064)
9/20/01	01447	C	345	Air	9.55	0.001		<8.0 (<0.0089)
9/20/01	01449	D	480	Air	<7.0	<0.006		<8.0 (<0.0064)
9/20/01	01421	E	480	Air	7.64	0.008		<8.0 (<0.0064)
9/20/01	01423	F	480	Air	<7.0	<0.006		<8.0 (<0.0064)
9/20/01	01424	G	480	Air	21.88	0.017		<8.0 (<0.0064)
9/20/01	01442	H	115	Air	<7.0	<0.023		<8.0 (<0.0288)
9/20/01	01441	I	480	Air	<7.0	<0.006		<8.0 (<0.0064)
9/20/01	01427	J	480	Air	<7.0	<0.006		<8.0 (<0.0064)

ccs#04027

NA: not analyzed due to oveloading of particulates

PCM: NIOSH 7400

Asbestos Fiber Analysis by Transmission Electron Microscopy (TEM) EPA 40CFR Part 763 (AHERA), S.L: Sampling Locations

Sample volume is below recommended limit of the method: [redacted]

*Structure (S) Roughly equilvalent to Fiber (F)

Standard criteria: EPA 40CFR Part 763 (AHERA): 0.01fiber/cc (PCM), 70S/mm2, volume 1200L, for 25MM filter (TEM)

A: Barclay+West Broad

B: Church+Dey St.

C: Liberty+Broad

D: Chase Plaza

E: Albany + Greenwich

F: Albany + West

G: Liberty + Southend

H: West + Vessey

I: West + Warren

J: Harrison tree

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CITY_DEP_WORBY_CANNATA_SUBP_000035235

NYC-WTC_000332148

NYC 9/11 Public Portal Document

New York City Emergency Response
Asbestos Air Sampling Results at Fixed Locations
Sampling Time: 2.00 AM 9/20/01 to 10.00 AM 9/20/01

Ex. 12

			Sample		PCM NIOSH 7400		TEM (AHERA)	
Date	Sample No.	S.L	Volume	Matrix	f/MM^2	f/cc	<5μ (>5μ) S (#)	S/MM^2 (S~f/cc)
9/20/01	01444	A	424	Air	7.64	0.007		<8.00 (<0.0073)
9/20/01	01446	B	406	Air	<7.0	<0.007		<8.00 (<0.0075)
9/20/01	01448	C	480	Air	<7.0	<0.006		<8.00 (<0.0064)
9/20/01	01450	D	417	Air	<7.0	<0.006		<8.00 (<0.0074)
9/20/01	01422	E	215	Air	<7.0	<0.013		<8.00 (<0.0143)
9/20/01	01425	F	421	Air	10.83	0.010		<8.00 (<0.0073)
9/20/01	01426	G	401	Air	<7.0	<0.007		<8.00 (<0.0077)
9/20/01	01428	H	422	Air	<7.0	<0.006		<8.00 (<0.0073)

coc#01428

NA: not analyzed due to oveloading of particulates
PCM: NIOSH 7400
Asbestos Fiber Analysis by Transmission Electron Microscopy (TEM) EPA 40CFR Part 763 (AHERA), S:L: Sampling Locations
Sample volume is below recommended limit of the method: [redacted]s
*Structure (S) Roughly equilvalent to Fiber (F)
Standard criteria: EPA 40CFR Part 763 (AHERA): 0.01fiber/cc (PCM), 70S/mm2, volume 1200L, for 25MM filter (TEM)

A: Barclay+Broad
B: Church+Dey St.
C: Liberty+Broad
D: Broad + Wall
E: Albany + Greenwich
F: West + Vessey
G: West + Warren
H: Harrison Tree

ERT 9/21/01

CITY_DEP_WORBY_CANNATA_SUBP_000035236

NYC-WTC_000332149

NYC 9/11 Public Portal Document

NYC Response

Asbestos Air Sampling Results NYC ER/NJ DEP

			Sample		PCM NIOSH 7400		TEM [AHERA)	
Date	Sample No.	S.L	Volume	Matrix	f/MM^2	f/cc	<5μ (>5μ)	S/MM^2 (S~f/cc)
							S (#)	
9/18/2001	28604	A	720	Air	<7	<0.004		<8.89(<0.0048)
9/18/2001	28605	B	720	Air	<7	<0.004		<8.89(<0.0048)
9/18/2001	28606	C	720	Air	7.84	<0.004		<8.89(<0.0048)
9/18/2001	28607	D	720	Air	<7	<0.004		<8.89(<0.0048)

cocN1641

PCM: NIOSH 7400

Asbestos Fiber Analysis by Transmission Electron Microscopy (TEM) EPA 40CFR Part 763 (AHERA), S.L: Sampling Locations

Sample volume is below recommended limit of the method: ***480 Liters

*Structure (S) Roughly equilvalent to Fiber (F)

Standard criteria: EPA 40CFR Part 763 (AHERA): 0.01fiber/cc (PCM), 70S/mm2, volume 1200L, for 25MM filter (TEM)

A: Liberty Park
B: CITGO terminal
C: FMC Terminal
D: Shell Terminal

CITY_DEP_WORBY_CANNATA_SUBP_00035237

NYC-WTC_000332150

NYC 9/11 Public Portal Document

NYC Response
Asbestos Air Sampling Results NYC ER/NJ DEP

			Sample		PCM NIOSH 7400		TEM (AHERA)	
Date	Sample No.	S.L	Volume	Matrix	f/MM^2	f/cc	<5μ (>5μ) S (#)	S/MM^2 (S~f/cc)
9/19/2001	2990	A	720	Air	<7	<0.004		<8.89(<0.0048)
9/19/2001	2991	B	720	Air	<7	<0.004		<8.89(<0.0048)
9/19/2001	2992	D	720	Air	<7	<0.004		<8.89(<0.0048)
9/19/2001	2993	C	720	Air	<7	<0.004		<8.89(<0.0048)

cocM91841

PCM: NIOSH 7400
Asbestos Fiber Analysis by Transmission Electron Microscopy (TEM) EPA 40CFR Part 763 (AHERA), S.L: Sampling Locations
Sample volume is below recommended limit of the method: ***480 Liters
***Structure (S) Roughly equivalent to Fiber (F)**
Standard criteria: EPA 40CFR Part 763 (AHERA): 0.01fiber/cc (PCM), 70S/mm2, volume 1200L, for 25MM filter (TEM)

A: Liberty Park
B: CITGO terminal
C: FMC Terminal
D: Shell Terminal

CITY_DEP_WORBY_CANNATA_SUBP_000035238

NYC 9/11 Public Portal Document

NYC-WTC_000332151

NYC Response
Asbestos Bulk Sample Analysis Results

Date Sampled	Sample No.	Sampling Location	Matrix	PLM Results % Asbestos	Comments
9/19/01	06378	Stuyvesant HS East	Dust	1.4 Chrysotile	
9/19/01	06379	Stuyvesant HS Entrance	Dust	1.5 Chrysotile	
9/19/01	06380	Stuyvesant HS South	Dust	2.1 Chrysotile	
9/19/01	06381	455 North End Ave.	Dust	1.8 Chrysotile	
9/19/01	06382	400 Chambers Court Yard	Dust	1.4 Chrysotile	
9/19/01	06383	22 River Terrace	Dust	1.8 Chrysotile	
9/19/01	06384	400 Gateway Plaza	Dust	1.7 Chrysotile	
9/19/01	06385	Gateway Plaza West	Dust	1.7 Chrysotile	
9/19/01	06386	300 Albany Street	Dust	<1 Chrysotile	
9/19/01	06387	350 Hudson Tower	Dust	1.2 Chrysotile	
9/19/01	06388	225 Rector	Dust	1.3 Chrysotile	
9/19/01	06389	200 Rector	Dust	1.2 Chrysotile	
9/19/01	06390	70 Battery Place	Dust	1.8 Chrysotile	
9/19/01	06391	Washington Carlisle	Dust	<1 Chrysotile	
9/19/01	06392	Trinity and Dey	Dust	<1 Chrysotile	
9/19/01	06393	Church and Barclay	Dust	ND	

PLM Polarized Light Microscope by Method NY State ELAP 198.1

GRT 9:50 AM
9/21/01

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NYC-WTC_000332152

NYC Response
Asbestos Bulk Sample Analysis Results

Date Sampled	Sample No.	Sampling Location	Matrix	PLM Results % Asbestos	Comments
9/20/01	08151	100 Church	Dust	ND	
9/20/01	08152	Barclay CW & Broadway	Dust	ND	
9/20/01	08153	Greenwich & Park	Dust	ND	
9/20/01	08154	7 Bay Street	Dust	ND	
9/20/01	08175	Cedar & Broadway	Dust	ND	
9/20/01	08155	West S.Bridge	Dust	ND	
9/20/01	08156	Thames & West	Dust	ND	
PLM Polarized Light Microscope by Method NY State ELAP 198.1					

ND: Not Detected

ERT 9/21/01 9:50 AM

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NYC-WTC_000332153

NYC Response
Asbestos Air Sampling Results at Fresh Kill
Sampling Time: 7pm 9/18/01- 7am 9/19/01

				Sample	PCM: NIOSH 7400		TEM (AHERA)		
Date Sampled	Sample No.	S.L	Matrix	Volume	F/mm^2	f/cc	<5µm (>5µm) S(#)	S-f/cc	Comments
9/19/2001	00693	Location 1	Air	1440 Liters	<7.0	<0.002		<0.0043	
9/19/2001	00694	Location 2	Air	1440 Liters	<7.0	<0.002		<0.0043	
9/19/2001	00695	Location 3	Air	1440 Liters	<7.0	<0.002		<0.0043	
9/19/2001	00696	Location 4	Air	1440 Liters	<7.0	<0.002		<0.0043	
9/19/2001	00697	Location 5	Air	1440 Liters	<7.0	<0.002		<0.0043	
9/19/2001	00698	Location 6	Air	1440 Liters	<7.0	<0.002		<0.0043	
9/19/2001	00699	Location 7	Air	1440 Liters	<7.0	<0.002		<0.0043	
9/19/2001	00700	Location 8	Air	1440 Liters	11.16	0.003		<0.0043	

coc#04001

Asbestos Fiber Analysis by Transmission Electron Microscopy (TEM) EPA 40CFR Part 763 (AHERA), S.L: Sampling Location
***PCM NIOSH method 7400 Revision 3, Issue 2**
***Structure (S) Roughly equivalent to Fiber (F)**
Standard criteria: EPA 40CFR Part 763 (AHERA): 0.01fiber/cc (PCM), 70S/mm2, volume 1200L, for 25MM filter (TEM)

CITY_DEP_WORBY_CANNATA_SUBP_000035241

NYC-WTC_000332154

NYC 9/11 Public Portal Document

NYC Response
Asbestos Air Sampling Results at Fresh Kill
Sampling Time: 7am 9/19/01- 7pm 9/19/01

				Sample	PCM: NIOSH 7400		TEM (AHERA)		
Date Sampled	Sample No.	S.L	Matrix	Volume	F/mm^2	f/cc	<5µm (>5µm) S(#)	S~f/cc	Comments
9/19/2001	00710	Location 1	Air	1440 Liters	<7.0	<0.002		<0.0043	
9/19/2001	00703	Location 2	Air	1440 Liters	<7.0	<0.002		<0.0043	
9/19/2001	00704	Location 3	Air	1440 Liters	<7.0	<0.002		<0.0043	
9/19/2001	00705	Location 4	Air	1440 Liters	<7.0	<0.002		<0.0043	
9/19/2001	00706	Location 5	Air	1440 Liters	<7.0	<0.002		<0.0043	
9/19/2001	00707	Location 6	Air	1440 Liters	17.83	0.005	1 (0)	0.0043	
9/19/2001	00708	Location 7	Air	1440 Liters	<7.0	<0.002		<0.0043	
9/19/2001	00709	Location 8	Air	1440 Liters	<7.0	<0.002		<0.0043	
9/19/2001	00711	Location 9	Air	1440 Liters	36.94	0.010	6 (1)	0.0299	

coc#04015

Asbestos Fiber Analysis by Transmission Electron Microscopy (TEM) EPA 40CFR Part 763 (AHERA), S.L: Sampling Locat
***PCM NIOSH method 7400 Revision 3, Issue 2**
*Structure (S) Roughly equivalent to Fiber (F)
Standard criteria: EPA 40CFR Part 763 (AHERA): 0.01fiber/cc (PCM), 70S/mm2, volume 1200L, for 25MM filter (TEM)

CITY_DEP_WORBY_CANNATA_SUBP_000035242

NYC 9/11 Public Portal Document

NYC-WTC_000332155

NYC Response
Asbestos Air Sampling Results at Fresh Kill
Sampling Time: 7pm 9/19/01- 7am 9/20/01

				Sample	PCM: NIOSH 7400		TEM (AHERA)		
Date	Sample No.	S.L	Matrix	Volume	F/mm²	f/cc	<5µm (>5µm)	S~f/cc	Comments
Sampled							S(#)		
9/20/2001	00715	Location 1	Air	458 Liters	<7.0	<0.006		<0.0067	
9/20/2001	00720	Location 2	Air	720 Liters	<7.0	<0.004		<0.0048	
9/20/2001	00716	Location 3	Air	720 Liters	<7.0	<0.004		<0.0048	
9/20/2001	01601	Location 4	Air	720 Liters	7.01	<0.004		<0.0048	
9/20/2001	01602	Location 5	Air	720 Liters	<7.0	<0.004		<0.0048	
9/20/2001	00717	Location 6	Air	502 Liters	<7.0	<0.005		<0.0061	
9/20/2001	01603	Location 7	Air	720 Liters	<7.0	<0.004		<0.0048	
9/20/2001	01604	Location 8	Air	720 Liters	<7.0	<0.004		<0.0048	
9/20/2001	00719	Screening 2	Air	720 Liters	11.46	0.006	0(2)	0.0095	Chrysotile
9/20/2001	00718	Screening 3	Air	720 Liters	<7.0	<0.004		<0.0048	

ccc#04019

Asbestos Fiber Analysis by Transmission Electron Microscopy (TEM) EPA 40CFR Part 763 (AHERA), S.L: Sampling Locat
***PCM NIOSH method 7400 Revision 3, issue 2**
***Structure (S) Roughly equivalent to Fiber (F)**
Standard criteria: EPA 40CFR Part 763 (AHERA): 0.01fiber/cc (PCM), 70S/mm2, volume 1200L, for 25MM filter (TEM)

CITY_DEP_WORBY_CANNATA_SUBP_000035243

NYC-WTC_000332156

NYC 9/11 Public Portal Document

Daily DataRam Summary Sheet
Fresh Kills Landfill
September 18, 2001

Weather Info: No MET station data available, however winds primary out of the N-NNE

Location	DataRam ID	Tag #	Logged Points	Elapsed Time	Avg Time (sec)	Logging Periods	Calibration Factor	STEL ug/m3	MingConc ug/m3	AvgConc ug/m3	MaxConc ug/m3
1											
2											
3	2084	1	5041	21:00:15	10	00:00:15	100	0.0	0.0	48.0	1719.8
4	2012	1	27	06:45:00	10	00:15:00	100	0.0	0.0	36.0	980.5
5	2227	1	5442	22:40:30	10	00:00:15	100	0.0	0.0	34.6	191.8
6	2381	1	55	13:45:00	10	00:15:00	100	0.0	0.0	49.0	876.6
7	2226	1	5421	22:35:15	10	00:00:15	100	0.0	0.0	41.6	642.5
8	2224	1	5392	22:28:00	10	00:00:15	100	0.0	0.0	40.0	236.4
9a	2481	1	29		10	00:15:00	100	0.0	1.5	137.0	29289.7

Location 1 - -74.199795 40.565139
Location 2 - -74.198262 40.566883
Location 3 - -74.198685 40.570054
Location 4 - -74.201380 40.569790
Location 5 - -74.205873 40.568892
Location 6 - -74.207406 40.563818
Location 7 - -74. 40.
Location 8 - -74.203019 40.561915
Location 9 - -74.201433 40.564822 (1-3 locations with in the screening area)

CITY_DEP_WORBY_CANNATA_SUBP_000035244

NYC-WTC_000332157

NYC 9/11 Public Portal Document

Daily DataRam Summary Sheet
Fresh Kills Landfill
September 19, 2001

Weather Info: No MET station data available, however winds primary out of the N-NNE

Location	DataRam ID	Tag #	Logged Points	Elapsed Time	Avg Time (sec)	Logging Periods	Calibration Factor	STEL ug/m3	AvgConc ug/m3	AvgConc ug/m3	MaxConc ug/m3
1	2152	1	30	07:30:00	10	00:15:00	100	0.0	2.2	28.7	57.2
2	2226	1	33	08:15:00	10	00:15:00	100	0.0	0.0	22.9	129.4
3	2142	1	32	08:00:00	10	00:15:00	100	0.0	0.0	22.3	117.5
4	2227	1	16	04:00:00	10	00:15:00	100	0.0	6.7	17.9	121.8
5	2381	1	32	08:00:00	10	00:15:00	100	0.0	0.0	34.2	209.7
6	2224	1	34	08:30:00	10	00:15:00	100	0.0	5.3	34.7	2807.3
7	2481	1	29	07:15:00	10	00:15:00	100	0.0	8.4	31.4	148.1
8	2012	1	29	07:15:00	10	00:15:00	100	0.0	2.2	20.4	303.6
9a	2480	1	33	08:15:00	10	00:15:00	100	0.0	12.8	75.6	3250.2

Location 1 - -74.199795 40.565139
Location 2 - -74.198262 40.566883
Location 3 - -74.198685 40.570054
Location 4 - -74.201380 40.569790
Location 5 - -74.205873 40.568892
Location 6 - -74.207406 40.563818
Location 7 - -74. 40.
Location 8 - -74.203019 40.561915
Location 9 - -74.201433 40.564822 (1-3 locations with in the screening area)

CITY_DEP_WORBY_CANNATA_SUBP_000035245