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Environmental Monitoring Update
Data reported to NYC DOH 9/26/01 as of 4 pm

Asbestos

Ambient air monitoring

Agency	Date	Location	N samples	N above 0.01 fibers/cc *	N above OSHA PEL @	Maximum (fibers/cc)	Comment
USEPA	**9/22/01-9/23/01**	Fresh Kills Landfill	12	0	0	--	All were less than detection limit; highest detection limit was <0.011 by TEM.
		Inside controlled zone	18	5	0	0.016 by PCM	Highest was Location #A at Location A, W. Broadway & Barclay. TEM was <0.004.
		Perimeter of controlled zone	6	0	0	0.006 by PCM	All were less than detection limit; highest detection limit was <0.006 by PCM.
		Neighborhood near controlled zone	4	0	0	0.005 by PCM	Highest locations were #H One Chase Plaza and also #M Broad & Liberty. TEM was <0.004.

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This data was rec'd from DEP today - Ambient air monitoring

Agency	Date	Location	N samples	N above 0.01 fibers/cc *	N above OSHA PEL @	Maximum (fibers/cc)	Comment
NYCDEP	**9/15/01-9/16/01**	Inside controlled zone	4	4	0	0.076 PCM	Highest value sampled at Greenwich and Park Place. No TEM given.
		Perimeter of controlled zone	15	15	0	0.050 PCM	Highest value sampled at Murray between Church and Broadway. No TEM given
	9/17/01-9/18/01	Perimeter of controlled zone	10	9	0	0.062 PCM	Highest value sampled at Liberty and Barclay. No TEM given
		Battery Park City	1	0	0	0.007 PCM	Highest value sampled at West end of Warren St. No TEM given
	9/19/01-9/20/01	Inside controlled zone	1	1	0	0.012 PCM	Highest value sampled at River Terrace and Vesey St. No TEM given
		Perimeter of controlled zone	4	2	0	0.020 PCM	Highest value sampled at Fulton and Church. No TEM given
		Battery Park City North	11	4	0	0.050 PCM	Highest value sampled at North End Ave and Park Place west. No TEM given
		Battery Park City South	12	4	0	0.050 PCM	Highest value sampled at West St and Albany. No TEM given
	9/20/01-9/21/01	Perimeter of controlled zone	9	0	0	0.008 PCM	Highest value sampled at Fulton and Church. No TEM given
		Battery Park City North	6	2	0	0.02 PCM	Highest value sampled at North End Ave and River Terrace. No TEM given
		Battery Park City South	6	1	0	0.014 PCM	Highest value sampled at Gateway Plaza and Park. No TEM given

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NYC-WTC_000232094

NYC 9/11 Public Portal Document

NYCDEP (continued)	**9/22/01**	Perimeter of controlled zone	4	1	0	0.010 PCM	Highest value sampled at Murray and Church
		Battery Park City North	6	0	0	0.009 PCM	Highest value sampled at River Terrace and Chambers. No TEM given
		Battery Park City South	6	1	0	0.010 PCM	Highest at West St. & Albany also Gateway Plaza Park Ave.
	9/23/01 – 9 /2401	Perimeter of controlled zone	11	3	0	0.017 PCM	Highest value sampled at Murray and Church. No TEM given.
		Battery Park City North	12	1	0	0.012 PCM	Highest value sampled at North End and Park Pl West. No TEM given.
		Battery Park City South	12	5	0	0.039 PCM	Highest value sampled at Rector Place by City Hall Park. No TEM given.

* Approximately equivalent to indoor clearance level for residences or schools. EPA results by TEM method, NYC-DEP by PCM

@ 0.1 fibers per cc by PCM method; US-OSHA permissible exposure limit for 8 hour time weighted average.

Interpretation: Dusty work in control zone or Fresh Kills Landfill continues to have the potential to generate elevated levels of asbestos fibers. Continued use of appropriate respiratory protection for workers in or near potentially dusty locations or tasks is indicated. Dust suppression measures should be enhanced. Additional personal monitoring underway.

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Indoor Ambient Air Sampling

Agency	Date	Location	N samples	N above 0.01 fibers/cc *	N above OSHA PEL @	Maximum (fibers/cc)	Comment
NYCDEP	**9/16 – 9/18**	Perimeter of controlled zone (City Hall)	2	2	0	0.022 PCM	Highest Value taken at the 2nd Floor of City Hall. No TEM given..
		Neighborhood (400 Chambers St.)	6	1	0	0.014 PCM	Highest value sampled at 400 Chambers St Lobby. No TEM given.
		Perimeter of controlled zone (225 Rector Pl)	2	2	0	0.044 PCM	Highest value sampled at 225 Rector Pl Lobby. No TEM given.
	9/22/01	Inside controlled zone (?) (101 Murray)	4	0	0	0.003 PCM	One sample was 0.003 but the other 3 were non-detects.

* Equivalent to indoor clearance level for residences or schools; NYC-DEP by PCM

@ 0.1 fibers per cc by PCM method; US-OSHA permissible exposure limit for 8 hour time weighted average.

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NYC 9/11 Public Portal Document

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Bulk (settled) dust

Agency	Date	Location	N samples	N asbestos detected	N > 1%	Maximum (%)	Comment
USEPA	**9/23/01**	Inside Control Zone	11	0	0	N/A	

Interpretation: While asbestos containing materials in dust at WTC and Fresh Kills is generally below permissible exposure limits for occupational exposure, the potential for higher exposures exist based on bulk dust and debris samples. Continued use of appropriate respiratory protection for workers in or near potentially dusty locations or tasks is indicated. Dust suppression measures should be expanded. Additional personal monitoring underway.

Locations are defined according to:

Inside controlled zone

- Location #A = West Broadway & Barclay
- Location #B = Church & Dey
- Location #D = Greenwich & Albany
- Location #E = South End & Liberty
- Location #F = West & Vesey
- Location #K = West & Albany
- Location #O = Pier 25 (West and N. Moore)
- Location #P-1, South End & Albany (used 'P' twice, see below)

Perimeter of controlled zone

- Location #C = Broadway & Liberty
- Location #I = Broadway & Wall Street
- Location #J = West & Warren

Neighborhood near controlled zone

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Location #H = One Chase Plaza (Nassau, William and Cedar)
Location #G = Church & Duane
Location #N = West side highway near Community College
Location #M= Broad and Liberty
Location #P = West and Harrison

Neighborhoods distant from controlled zone

Fresh Kills Landfill

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