NYC 9/11 Public Portal Document

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Environmental Monitoring Update
Data reported to NYC DOH 9/21/01 as of 4 pm (EPA & ConEd)

Asbestos

Ambient air monitoring

Agency	Date	Location (see notes on page 3)	N samples	N above 0.01 fibers/cc *	N above OSHA PEL @	Maximum (fibers/cc)	Comment
USEPA (round 10?, not specified)	**9/18/01-9/19/01**	New Jersey	8	0	0	--	All were less than detection limit; highest detection limit was <0.0048 by TEM.
	9/19/01-9/20/01	Inside controlled zone	15	0	0	0.010 by PCM	Highest was located at West and Vesey. TEM was <0.0073.
	9/19/01-9/20/01	Perimeter of controlled zone	8	0	0	0.012 by PCM	Highest was located at West and Warren. TEM was <0.0084.
	9/19/01-9/20/01	Neighborhood near controlled zone	6	0	0	0.017 by PCM	Highest was located at Liberty and South End. TEM was <0.0064.
	9/19/01-9/20/01	Fresh Kills Landfill	27	1	0	0.0299 by TEM	Highest was located at Location #9. PCM was 0.010.
NYC-DEP	**9/20/01**	5 schools, distant from controlled zone	12	0	0	0.003 by PCM	

* 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.

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NYC 9/11 Public Portal Document

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Personal air monitoring

Agency	Date	Location	Activity	N samples	N above OSHA PEL*	Maximum (fibers per cc)	Comment
Con Ed	**9/19/01**	Inside controlled zone	Electric	2	0	0.008 by PCM	Various locations, not too dusty, wind blowing to south.
OSHA	New data not received at DOH						
Federal Occupational Health	New data not received at DOH						

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

Bulk (settled) dust

Agency	Date	Location	N samples	N asbestos detected	N > 1%	Maximum (%)	Comment
USEPA	**9/19/01-9/20/01**	Inside controlled zone	22	14	11	2.1%	Highest at Stuyvesant HS South.
	9/19/01-9/20/01	Neighborhood near controlled zone	1	0	1	1.8%	70 Battery Place

Interpretation: The most recent ambient air samples in and around WTC and Fresh Kills, generally well below permissible exposure limits for occupational exposure and, in most cases, for community exposure. However, potential for higher exposures exist based on past personal air samples and presence of asbestos in dust and debris. 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.

CITY_21MC100_0030623 73

NYC-WTC_000337333

NYC 9/11 Public Portal Document

Other Compounds

All test results below provided by US EPA

Toxic metals & Lead in ambient air: As reported in the USEPA Report, Friday Sept 21: 6 samples were collected at the Jacob Javits Center. Lead results were well below the HUD criteria (50 ug/ft^2). Most other toxic metals were either non-detects or trace.

Interpretation: No immediate public or occupational health threat. Lead levels in ambient air remain well below levels for worker concern.

Particulate monitoring: As reported in the USEPA Report, Friday Sept 21: Using 3x background for implementation of Dust Suppression Measures. All data collected with exception of screening area, was well below the 3x number.

Interpretation: No immediate public or occupational health threat. (Personal air sampling pending.) Appropriate respiratory protection should continue to be worn.

Notes: WTC area 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

Perimeter of controlled zone
- Location #C = Broadway & Liberty
- Location #I = Broadway & Wall Street
- Location #J = West & Warren
- Location #N = West side highway near Community College

Neighborhood near controlled zone
- Location #H = One Chase Plaza
- Location #G = Church & Duane

CITY_21MC100_00306237 4