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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

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Environmental Monitoring Update
Data reported to NYC DOH 9/22/01 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	**9/21/01**	Data not received at DOH by 4pm					
NYC-DEP	**9/21/01**	5 schools, distant from controlled zone	15	0	0	0.002 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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Other Monitoring

Total Dust and Lead in ambient air: As reported by Union of Operating Engineers National Hazmat Program Sampling Data (collected 9/20/01): 5 air samples collected on heavy equipment operators working in the controlled zone. No lead detected. Maximum total dust was 3.2 mg/m3.

Interpretation: No immediate public or occupational health threat from lead exposure.

Particulate monitoring (PM 2.5)

Agency	Date	Location	N samples	N above threshold *	Max	Comment
NYSDEC	**9/21/01**	Fresh Kills Landfill (Met)	24 samples (continuous monitoring)	0	22.97	

* Proposed National Ambient Air Quality Standard is d is 65 ug/m3 maximum for a 24 hour period and 15 ug/m3 annual arithmetic mean.

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

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Personal air monitoring

Agency	Date	Location (see notes on page 3)	Activity	N samples	N above OSHA PEL*	Maximum (fibers per cc)	Comment
Con Ed	**9/21/01**	Data not received at DOH by 4pm					
OSHA	**9/20/01**	Inside controlled zone	Walking	9	0	0.035 by PCM	Maximum was walking West St to Albany, to Liberty, to Washington. TEM was <0.005
		Perimeter of controlled zone	Observing	5	0	0.029 by PCM	Highest at Liberty & West Street. TEM was 0.007
		Neighborhood near controlled zone	Observing	1	0	0.005 by PCM	Maximum at West & Chambers. Not analyzed by TEM.
Union of Operating Engineers	**9/20/01**	Inside controlled zone	Heavy equipment operators	3	1	0.74 by TEM	Maximum west side of Tower 1, edge of debris pile.

* 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 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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