

Gilsenan, Michael

From: Theodorellys, Penny
Sent: Wednesday, August 21, 2002 11:36 AM
To: [REDACTED] PII; 'morrowy@assembly.state.ny.us'; 'callahan.kathy@epamail.epa.gov'; 'fitzpatrick.robert@epamail.epa.gov'; 'joe@samsonmanagement.com'; 'laposta.dore@epamail.epa.gov'
Cc: Gilsenan, Michael
Subject: 125 Cedar Street Monitoring Contractor Scope of Work



125CedarMonitorin
g Scope (1).d...

**New York City Department of Environmental Protection
Bureau of Environmental Compliance**

**Monitoring Contractor
Scope of Work for 125 Cedar Street, Manhattan**

Background

A follow-up visit to 125 Cedar Street revealed debris and significant dust accumulation present on surfaces throughout the interior of the building. The interior cleaning is to be accomplished by a licensed asbestos abatement contractor and monitored by a Monitoring Contractor.

Purpose

The Monitoring Contractor shall provide personnel experienced, trained, and certified in environmental sampling and asbestos air monitoring to be on-site, full-time, during work area preparation and cleaning phases of building interiors (12 stories and a penthouse-5,000 to 6,000 square feet in total). The Monitoring Contractor shall provide qualified staff to observe the work, conduct air monitoring, and monitor the cleanup of the building interiors to ensure compliance with the project specifications and appropriate regulatory requirements. The Monitoring Contractor shall provide clearance sampling and analyses.

The Monitoring Contractor shall provide qualified staff to collect samples for lead, polyaromatic hydrocarbons (PAHs), dioxin, fibrous glass, crystalline silica and mercury.

An accredited laboratory shall perform all sample analyses.

The Work shall be performed 24 hours per day, seven (7) days per week

Air Monitoring/Construction Inspection Services

Air monitoring by a Monitoring Contractor shall be conducted during all cleanup activities. The Monitoring Contractor shall provide individuals certified as project monitors and air sampling technicians to perform daily air sampling and inspections from the commencement of the project through final air clearance sampling. The Monitoring Contractor shall provide sufficient equipment and experienced personnel to monitor work area preparation and cleaning phases of the building interiors.

Qualifications

Project Monitoring

The Project Monitors must possess valid NYS Asbestos Project Monitor certificates. Monitors must have served as a third party project monitor on at least 25 asbestos abatement projects. Project Monitor must have performed final clearance inspections on at least 25 asbestos abatement projects. A single individual with Asbestos Project Monitor and Asbestos Project Sampling Technician certification shall not perform the functions of both Monitor and Technician during this project.

Air Sampling Technicians

Air monitoring technicians must possess valid NYS Asbestos Project Sampling Technician (APST) certificates. Technicians must have performed air sampling for at least 6 months. At a minimum at least 5 Air Sampling Technicians must be assigned to this project. A single individual with Asbestos Project Monitor and Asbestos Project Sampling Technician certification shall not perform the functions of both Monitor and Technician during this project.

Wipe Sampling Technicians

Wipe sampling technicians must have 1-year experience in wipe sampling for a variety of contaminants and have received state certified training in dust sampling. At a minimum at least 2 Wipe Sampling Technicians must be assigned to this project.

Equipment

Sampling equipment must be in sufficient quantity to provide the amount and type of samples required for this project. At a minimum the following equipment are required: air-sampling pumps with flow rate capacities of 2 to 10 liters per minute, tripods, rotometers, sample cassettes with mixed cellulose ester filters having pore size of 0.8µm, micro vacuum, disposable porous cellulosic towellettes moistened with wetting agent and solvent-wetted sampling agent.

Analytical Laboratory

The environmental laboratory must be certified by the New York State Department of Health. Certification for all the analytes specified herein must have been maintained for at least six (6) consecutive proficiency testing rounds. The laboratory must possess a gas chromatograph equipped with a capillary column and high-resolution mass spectrometer for analyzing dioxin and inductively coupled plasma for total metals. Cold Vapor Method apparatus shall be used for mercury analysis.

Proof of qualifications must be presented to the NYCDEP prior to commencement of work. The NYCDEP reserves the right to disqualify any individual(s) from work on this project for non-compliance with these specifications or the requirements of applicable rules and regulations.

Specifications

It is anticipated that the work will be completed within three (3) weeks.

Sampling and Analytical Procedures for Lead, PAHs, Dioxin, Fibrous Glass, Silica, and Mercury

1. Sampling for lead, PAHs, dioxin, fibrous glass, crystalline silica and mercury shall be performed by the wipe sampling technician. A completed chain of custody must accompany all samples. A unique sample number shall be assigned to each sample. A complete written description and/or diagram shall clearly identify each sampling location.
2. Post cleaning air samples for fibrous glass and silica shall be collected concurrently with the asbestos clearance air sampling procedures specified herein. Five samples for fibrous glass and one sample for silica shall be collected in each apartment.

- Wipe samples shall be collected before and after cleaning for lead, mercury, dioxin, and PAHs.

Prior to the cleaning activities, three wipe samples shall be collected for each of these parameters in each apartment. The sampling locations shall be a wall, a bare floor, and a counter or tabletop.

After cleaning activities, three wipe samples shall be collected for each of these parameters in each apartment. The sampling locations shall be a wall, a bare floor, and a counter or tabletop; preferably at the same location as the pre-cleaning samples.

- The required sampling and analytical procedures are specified in Table 1.

Table 1: Sampling and Analytical Methods

Parameter	Description	Sampling Methodology	Analytical Method
Lead	Wipe samples	HUD Appendix 13.1	EPA Method SW-846-6010B
PAHs	Wipe samples	ASTM D6661-01	ASTM-6661-01 EPA SW-846-8270C
Dioxin	Wipe samples	ASTM 6661-01	ASTM 6661-01 EPA Method SW-846-8290
Fibrous Glass	Air samples	NIOSH 7400	NIOSH 7400, Counting Method "B"
Crystalline Silica	Air samples	NIOSH 7500	NIOSH 7500 (XRD)
Mercury	Wipe samples	HUD Appendix 13.1	EPA Method SW-846 7471A

Asbestos Air Sample Collection and Analysis

- All asbestos air samples collected during clean-up activities shall be analyzed via TEM. The method of analysis and sampling methodologies shall be in accordance with the applicable sections of Title 15, Chapter 1 of the Rules of the City of New York. and AHERA.
- A turnaround time of 24 hours is required for all samples.
- Asbestos clearance air samples shall be analyzed in accordance with the NIOSH 7400 Method, and analyzed by PCM followed by TEM. The laboratory shall report a PCMe value of all fibers greater than 5 microns in length. Therefore, the lab shall report PCM, TEM and PCMe values for each sample.

Asbestos Air Monitoring

- At a minimum, five (5) TEM samples shall be collected per day during cleanup activities.
- Samples shall be collected at isolation barriers outside the work area, the clean room of the worker/waste decontamination facility, and outside of the building.
- Sample collection during clean up activities shall be in accordance with Title 15, Chapter 1 of the Rules of the City of New York (RCNY) and AHERA regarding documentation, sample locations, rate of flow, and required volumes to achieve the necessary analytical sensitivity.

4. Sampling equipment shall be placed at representative locations and away from obstruction. Sampling cassette must be placed on a tripod and not taped to existing surfaces. All air sampling equipment shall be pre- and post- calibrated to insure accurate air sampling volumes.
5. The Air Sampling Technician shall perform clearance air sampling after the areas are free of dust accumulations as determined by the Project Monitor. All surfaces must be completely dry prior to the start of sampling. Clearance air sampling shall be performed at each apartment. Five samples shall be collected in each apartment and two samples shall be collected in each common space. The elevator shaft and first floor commercial spaces shall be cleared separately. Clearance air monitoring shall be performed after the completion of all clean up activities at the work site. Clearance air sampling shall be aggressive and performed in accordance with Title 15, Chapter 1 of the RCNY Section 1-43 (a)-(d).
6. Clearance air samples shall be collected in accordance with the procedures specified in the NIOSH 7400 Method. The flow rate for collection of air samples shall be at least 10 liters per minute and no more than 15 liters per minute. Air sampling cassettes must be monitored to ensure the filters do not develop dark spots that would indicate clogging. The minimum sampling volume is 3600 liters. If clogging develops, the cassette must be changed.
7. All clearance air samples and completed chain of custody forms must be transported to the laboratory immediately after sampling is completed.

Clearance Criteria

1. The following clearance levels have been established by the USEPA for clean up activities resulting from the collapse of the WTC.

<i>Parameter</i>	<i>Clearance Level</i>	<i>Note</i>
Asbestos in air	0.0009 f/cc PCMe	Primary clearance level
Lead in settled dust	<25 µg/ft ²	Primary clearance level
Dioxin in settled dust	<4ng/m ²	Primary clearance level
Fibrous glass in air	<0.01 f/cc	Secondary clearance level
Crystalline silica in air	0.5µg/m ³	Secondary clearance level
PAHs in settled dust	<0.3 mg/m ²	Secondary clearance level
Mercury	between 1 and 2 mg/m ²	Secondary clearance level

2. Cleaning shall not be considered complete unless the primary clearance levels are achieved. The apartment will be re-cleaned and retested if the primary clearance levels are not achieved. These clearance levels may be re-evaluated and revised if determined necessary based on field conditions and analytical limitations. Secondary clearance levels shall be considered in determining the need for additional cleanup, however failure to meet the secondary clearance levels does not automatically trigger the re-cleaning.

Project Monitoring

1. The project monitor shall provide oversight of clean-up activities to ensure compliance with project specifications, tenants authorizations, and applicable rules and regulations. The project monitor shall be present on site during all cleaning activities. The project monitor shall coordinate all scheduling requirements for timely completion of the work (completion of work area preparation and cleaning activities within three (3) weeks. The project monitor shall maintain the inventory of valuable items in each unit as provided by tenants. A copy of the contractor requirements is attached. For additional and specific tasks, refer to this attachment.
2. The project monitor shall provide daily monitoring of all work activities to insure compliance with the scope-of-work, the applicable rules and regulations, and the contracts. This includes but is not limited to the verification of worker certification status, the use of proper engineering controls and appropriate work practices.
3. The project monitor shall direct corrective actions when appropriate and shall be responsible to stop work until corrections are made. Findings must be reported immediately to DEP via telephone call. Written notification of observation and corrective actions must be received by the DEP within 48 hours of telephone call.
4. A final report shall be submitted to the DEP within days of project completion. The report shall clearly identify the work performed in each unit and shall include all laboratory reports, chain-of-custody forms, field notes, copies of employee credentials (i.e. certificates), tenant and owner authorizations, etc.