

ASBESTOS PROJECT MONITOR AND AIR SAMPLING CONTRACT

A. Introduction

All work performed under this contract must be in compliance with all applicable, relevant, and appropriate regulations and Scope of Work, including but not limited to those of the United States Environmental Protection Agency (USEPA), the United States Department of Labor, Occupational Safety and Health Administration (OSHA), the New York State Department of Labor (NYSDOL), the New York State Department of Health Environmental Laboratory Approval Program (ELAP) and the New York City Department of Environmental Protection (NYCDEP). This project shall involve coordinating and monitoring the clean up of debris and air sampling from building apartments in the vicinity of the World Trade Center explosion site.

B. Qualifications

The Third Party Air Monitor and Air Sampling Firm shall be independent of the asbestos abatement contractor. The firm shall have extensive experience in the performance of comparable work at large asbestos projects in the City of New York. The firm's violation history shall be a significant factor in meeting the qualification requirements.

Project Monitors

The Project Monitors must possess valid NYS Asbestos Project Monitor certificates. Monitors must have served as a third party project monitor on at least 20 asbestos abatement projects. Project Monitor must have performed final clearance inspections on at least 50 asbestos abatement projects.

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.

Proof of qualifications must be presented upon request.

Equipment

Sampling equipment must be in sufficient quantity to provide the amount and type of samples required for this project without delay of project completion time. 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 0.45 μ m(TEM).

C. Specifications

Clean up activities shall be scheduled for 20 to 30 units per day. Air sampling shall also be provided at 10 to 20 units where clean up activities are not scheduled. Sufficient personnel and equipment shall be available for project monitoring and sampling.

Work shall be performed seven days per week from 8:00 A.M. to 6:00 P.M.

The Project Monitor shall direct and coordinate all services and report all findings to USEPA. All work shall be performed with oversight and under the direction of the USEPA. The scope of this project will be as follows:

1. The Project Monitors shall be responsible for receiving information from the USEPA Hotline, scheduling cleaning-up activities and air sampling with the **tenants/owners, asbestos abatement contractors and air monitoring technicians** to the various apartments.

The Project Monitors shall be responsible for accessing a secure USEPA Web Site (URL, User name and password shall be provided by the USEPA). The monitors shall be responsible for accessing residential services requested, scheduling clean-up activities and air-sampling with the tenants/owners, asbestos abatement contractors, and air monitoring technicians to the various apartments. The Project Monitor will then supply information on activities within 24 hours back to the USEPA Indoor Air database via the secure USEPA Web Site.

2. The Project Monitor shall post notices in sufficient quantities and at conspicuous locations in the building lobby notifying occupants of the clean up activities within the building. Notices shall be posted at least 3 days prior to the start of clean up activities. The information to be included on the notices shall be provided by the USEPA and shall include at a minimum: *Units within the building have been scheduled for participation in the program and information to include other units by calling the hotline.*
3. Air monitoring technicians must be on-site during clean-up activities to collect final clearance samples.
4. The Project Monitor shall ensure that the clean up activities comply with the approved Scope of Work. The Project Monitor shall ensure corrective actions are implemented immediately and shall have the authority to stop work until all corrective actions are taken.

The contractor is required to maintain an accurate log of activities and staff present. The log must include entry and exit times from the unit. Activities performed within the unit shall be documented at a minimum two-hour intervals. The results of inspections by the Project Monitor and authorized agency representatives shall be entered in the log. The Project Monitor shall review the entries and make appropriate entries after inspections. Information regarding the results of inspections by the Project Monitor and authorized agency representatives shall be reported to the USEPA.

Post Clean-up Air Sampling Procedure must be as followed:

- a) Sampling shall not begin until a thorough visual inspection confirms the absence of visible debris. The Project Monitor shall perform all final visual inspections.

- b) All surfaces must be completely dry prior to the start of sampling.
- c) Sampling equipment shall be placed at representative locations within the work area and away from obstructions. **The sampling cassette must be placed on a tripod and not taped to existing surfaces.**
- d) Air conditioning units where applicable shall be run/operated at least 15 minutes prior to the start of sampling. The air conditioning units shall operate continuously throughout the sampling. HVAC systems shall be in operation during sampling.
- e) Forced air equipment (e.g. leaf blowers) may be used only after written authorization by the occupant or his/her authorized representative. The project monitor shall advise the occupant or his/her authorized representative on the advantages and disadvantages regarding the use of the equipment and obtain the individual's signature authorizing use. The authorization shall provide a summary of the advantages and disadvantages and shall be provided by the USEPA.

Before the start of sampling, forced air equipment (such as a 1 horsepower leaf blower) may be used to direct exhaust air against walls, ceilings, floor, ledges and other surfaces. When directing the exhaust, caution shall be taken to minimize disturbance and potential damage to furnishings and personal belongings.

One 20-inch fan shall be installed per 10,000 cubic feet of room space and run at low speed. The fan shall operate continuously throughout sampling and shall not be turned off until sampling is completed.

- f) For studio apartments 3 samples shall be collected. For 1-bedroom apartments and above 5 samples shall be collected. Technicians shall collect a volume of 3000 liters per sample using a flow rate of 10 liters per minute.
 - g) Samples must be labeled and accompanied with completed chain of custody forms before shipping to the designated laboratory.
5. All information must be maintained on a data based software program that is acceptable to the USEPA. Information in the database shall be updated every 24 hours. The information shall at a minimum include information on scheduling, posting of notices, dates of air monitoring and inspections, results of inspections, sampling results, completion dates, etc.

6. Project reports, including a project completion sign-off signed by the project monitor and the occupant or his/her authorized representative, must be typed and forwarded to USEPA with a copy to NYCDEP.

*Kruid
from Bob
Fitzpatrick*

Indoor Residential Cleaning

Scope of Work

All work performed under this contract must be in compliance with all applicable, relevant, and appropriate regulations, including but not limited to those of the United States Environmental Protection Agency (USEPA), the United States Department of Labor Occupational Safety and Health Administration (OSHA), the New York State Department of Labor (NYS DOL), and the New York City Department of Environmental Protection (DEP).

Background

The USEPA shall solicit participation in a direct assistance program for residents and residential building owners who are concerned that their apartments may have debris/dust from the collapse of the WTC. An USEPA telephone hotline shall be established to receive requests from the public. The assistance will include various options, including the cleaning within apartments and common spaces by licensed asbestos contractors with follow-up asbestos sampling, asbestos air sampling only, and providing HEPA vacuums.

NYSDOL licensed asbestos contractors shall perform clean up activities for residents who wish to have their homes cleaned. A third party air monitoring firm will monitor the work, perform a visual inspection, and perform asbestos air sampling when the clean up is completed.

Purpose

The purpose of this contract is to acquire the services of a NYS DOL licensed asbestos contractor with DEP and NYSDOL certified workers for the performance of clean-up activities at residential building in the vicinity of the WTC. The scope of work for the clean-up activities is attached.

Contract Term and Specifications

This contract shall be in force for 180 consecutive calendar days from the commencement date. Contractors must be prepared to mobilize within 72 hours of the contract award. Contractors shall provide a sufficient crew size to complete the clean up activities within each unit/apartment within 2 days. Only properly trained employees shall be allowed to clean apartments. Their training shall be equivalent to the A minimum of twenty (20) units/apartments shall be cleaned simultaneously. Activities shall be coordinated with the project monitor to ensure that the visual inspection is performed within two hours of the completion of clean up activities. The project monitor shall review and evaluate air sampling results for successful clearance criteria. Cleaning activities shall be considered completed when the project monitor and occupant signoff on the project completion.

Indoor Clean-up Activities Scope of Work

Application: These procedures apply to the clean-up of minimal dust accumulations (light coating). Cleaning shall include HEPA- vacuuming and wet-wiping. If a visual inspection indicates the presence of large debris accumulations from the collapse of the WTC, then these procedures shall not be applicable.

1. All work shall be performed by a NYS DOL licensed contractor with NYS DOL- and NYC DEP- certified workers. The clean-up activities must be performed in the presence of an authorized individual/occupant who shall be responsible for personal belongings.
2. A third party air monitoring firm shall perform air sampling after the clean up activities. The person who conducts sampling shall possess a valid NYS DOL certificate.
3. Individuals performing clean up activities are not required to wear personal protective equipment or respirators.
4. All surfaces shall be wet wiped/HEPA vacuumed. An encapsulating agent shall not be applied. Surfaces include but are not limited to walls, floors, ceilings, ledges, trims, furnishings, appliances, equipment, etc.

Carpets, curtains, upholstery, and other materials that cannot be cleaned by wet wiping shall be HEPA vacuumed two times. Dry sweeping is prohibited. Plants shall be cleaned by rinsing leaves with water. Paperwork and books shall be HEPA vacuumed.

The exterior of air condition units shall be wet wiped/HEPA vacuumed. The air condition units shall then be pulled into the interior space where the grills and unit shall be HEPA vacuumed and wet wiped.

5. A thorough visual inspection shall verify the absence of visible dust accumulations. Additional clean-up procedures shall be performed where visible dust is observed. Air sampling shall be performed after the area is free of dust accumulations.

6. Personal air monitoring shall be performed in accordance with USDOL OSHA requirements. In addition, personal air monitoring shall be performed on a minimum of one worker per shift during the clean up activities for the first ten (10) units. There after at least one personal sample shall be taken on employees cleaning every other unit. The results of this sampling shall be shared immediately with OSHA, the employer and the workers or their representatives. These results shall be submitted to the USEPA for review and shall include at a minimum the date and hours of sampling, name of the worker, his/her NYCDEP asbestos certification number, and specific description of activities in the unit during the sampling.

10. All debris shall be misted and bagged directly. Accumulation of water is prohibited. Water misting shall be sufficient to wet the material without water accumulations. After the removal of debris accumulations all surfaces shall be wet wiped and HEPA vacuumed. An encapsulating agent shall not be applied. Once all surfaces have been wet wiped and HEPA vacuumed a second cleaning shall be performed. Surfaces include but are not limited to walls, floors, ceilings, ledges, trims and furnishings.

Surfaces that may not be wiped shall be HEPA vacuumed three times or disposed as ACM waste. Disposal of material may not occur without prior authorization by the building owner and/or space occupant.

10. A thorough visual inspection shall verify the absence of visible dust accumulations.
12. After successful clearance air monitoring isolation barriers shall be removed in conjunction with the use of a HEPA vacuum.
13. All work shall be in compliance with all other applicable requirements of Title 15, Chapter 1 of the Rules of the City of New York and New York Industrial Code Rule 56. Transportation and disposal of generated waste shall be in compliance with all applicable rules and regulations.