Avaltroni, Robert
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Sent: Saturday, March 09, 2002 3:48 AM
To: Chapin, Diana
Subject: RE: fema mission assignment proposal

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From: Chapin, Diana
Sent: Friday, March 08, 2002 2:53 PM
To: Avaltroni, Robert; Gilsenan, Michael; Radhakrishnan, Krish
Subject: FW: fema mission assignment proposal
Importance: High

Please review and comment asap.

-----Original Message-----
From: Ronald J. Tramontano [mailto:rjt03@health.state.ny.us]
Sent: Friday, March 08, 2002 1:25 PM
To: LaPosta.Dore@epamail.epa.gov
Cc: Callahan.Kathy@epamail.epa.gov; david.ippolito@osha.gov; dianac@dep.nyc.gov; jleighto@health.nyc.gov; marianne.jackson@fema.gov; rcw1@cdc.gov; reed.larry@epamail.epa.gov; sbenson@oem.nyc.gov; nkk01
Subject: Re: fema mission assignment proposal

is this for the work group or the task force? the distribution doesn't seem to be complete for either one.

LaPosta.Dore@epamail.epa.gov
03/08/02 01:17 PM

To: dianac@dep.nyc.gov, jleighto@health.nyc.gov, sbenson@oem.nyc.gov, Ronald J. Tramontano/CEH/OPH/DOH@NYSDOH, rcw1@cdc.gov, marianne.jackson@fema.gov, david.ippolito@osha.gov, reed.larry@epamail.epa.gov
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(See attached file: wtcfemamission.wpd)

Dore LaPosta
732 321-6686 phone
732 321-6616 fax
laposta.dore@epa.gov
(See attached file: wtcfemamission.wpd)

wtcfemamission.wpd

NYC 9/11 Public Portal Document

Mission Assignment to FEMA on World Trade Center Monitoring and Cleanup
March 11, 2002

1) Follow-up Sampling Activities Related to the NYCDOH/ATSDR/EPA Indoor Pilot Residential Sampling

In November and December, 2001, 30 residential buildings were sampled to determine whether residents were being exposed to concentrations of materials that may be harmful and to determine whether areas cleaned up posed a public health concern. The air samples from inside the buildings showed no elevated levels of asbestos, however low levels of asbestos and fibrous glass were found in the settled dust in some of the residential units, common areas, and outdoor areas. Both fibrous glass and asbestos were found in residences previously cleaned, however elevated levels were not found in any of the 5 background sampling locations.

It is estimated that approximately 50 of the 98 areas (residential units, common areas, and outdoor areas) sampled during the November/December Pilot Residential pilot may require re-sampling after additional cleanup is completed. This sampling event will help to ensure the effectiveness of cleanup techniques (e.g., wet wipes, HEPA-vacuum) as well as to ensure that the residences are safe.

Cost Estimates

Conduct Follow-up Sampling for locations:		
Equipment and Laboratory Costs:		$450,000
Travel and Per Diem for Sampling Team:		$150,000
	Total:	**$600,000**

2) New York City Department of Environmental Protection Outdoor Building Inspection Program

The New York City Department of Environmental Protection Asbestos Control Program (ACP) with assistance from representatives of the NYS Department of Labor (NYS DOL) and EPA performed site visits at buildings in the WTC vicinity to assess visible debris on building exteriors in January and February 2002. These assessments were conducted to follow-up on activities performed in October and November 2001, in which letters were sent to building owners identifying visual observations of building exteriors and the requirements for assessment and clean up, if necessary.

The visual assessments disclosed the presence of various amounts of debris with various dispersal patterns. The majority of buildings had isolated areas of debris specifically at the perimeter of the roofs, at the base of parapet walls, and in gutters. Debris was also visible at

NYC-WTC_000153002

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horizontal surfaces on building facades. For some buildings, building facades facing the street were cleaned while the facades at the rear remained dirty. The observed debris was characteristic of the debris from the WTC collapse of September 11, 2001.

Samples collected from various buildings indicated that some of the debris contained asbestos-containing material. Other samples did not disclose the presence of asbestos, and others were trace or below 1% asbestos. In the absence of sampling data for specific buildings, it is recommended that NYS DOL licensed asbestos contractors with NYC DEP and NYS DOL certified workers perform the clean-up activities. In addition, an independent third party must perform air monitoring during the clean-up activities. This activity is necessary to address concerns by the community of re-entrainment of ambient dust to the interior of buildings. Wet methods and HEPA vacuums will be used for cleaning roofs, terraces, and other outside areas of the buildings.

Costs to Cleanup 250 Buildings

Area Size	**# Buildings**	**Costs/Sq ft**	**Building Costs**
10,000 sq. ft	25	$3	$750,000
5,000 sq. ft	50	$4	$1,000,000
1000-5000 sq. ft	175	$8	$3,500,000
			$5,250,000
Air Monitoring Costs			**$200,000**
Facade Cleaning Costs (includes contingency costs)			**$5,000,000**
Total Costs			**$10,450,000**

3) Provide Indoor Cleaning and Sampling for Residences/Commercial Buildings where contamination may still exist

Ambient sampling results do indicate that the source of contamination is disappearing from the WTC site, since the fires are extinguished and recent sampling results rarely indicate any elevated levels. Federal, State, and New York City agencies are confident that the methods of cleaning (e.g., wet wipes, HEPA-vacuums) recommended to residences and commercial buildings are appropriate. However, it is also known that these methods are not always 100% effective, and that there will be instances where apartment owners and commercial facilities will not clean up as recommended.

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Based on the 2000 Consensus, there are approximately 11,000 residences in the 10 block radius of the WTC. NYC DEP has estimated there are 2500 commercial buildings south of Canal St. A subset of these buildings have not been abated at this time. Cleaning of these buildings followed by confirmatory sampling may need to be conducted. In order to determine an appropriate protocol for dust abatement, EPA will abate the interior of one apartment building completely. This will be followed by the cleanup and sampling of the interior of a subset of buildings according to the procedures established above. Background buildings will be identified (e.g., above 59th st) and sampled to determine appropriate benchmarks for chemicals of concern for buildings affected by the WTC collapse.

Residential - Establish a Protocol for Dust Abatement of Test Apartment Building

Crews will complete cleanup of a small apartment building (e.g. 24 apartments). New York City Office of Emergency Management is identifying a representative building. The process will occur in 3 stages: setup, cleanup, and tear down. Setup involves videotaping, moving furniture and establishing negative pressure using blowers and vizqueen. Cleanup includes HEPA vacuuming carpeting, furniture, drapes and wet-moping hard surfaces such as wood floors and counter tops. Tear down includes post cleanup sampling and analysis, and removal of cleaning equipment and setup materials. Replacement costs for furniture, drapery and other porous materials are not included here, this is viewed as a last resort.

Test Apartment Building Costs:

Set Up, Cleanup, and Testing of Each Apartment - $12,000 - $16,000

Total Costs (24 apartments) - $384,000

OSHA's Procedures for Oversight of Cleanup Contractors for Commercial and Residential Buildings

Create **Contract Language** for Agencies to use that specifically addresses employee health issues related to building cleaning such as administrative controls, employee PPE, employee training, cleaning practices, and disposal procedures. Create **Pre-qualification Contract Bid Specifications** to ensure that properly qualified contractors are hired. These specifications will include effective safety and health programs, competency of staff and OSHA citation history.

Implement **Oversight Contract Adherence (OCA)** -- OSHA will retain a environmental abatement contractor to ensure compliance with the contract performance specifications and to ensure employees are properly protected and trained. This contractor will also collect oversight data and organize it into a database.

OSHA Costs

Contract Language/Bid Specifications -	2 FTE
Travel including per diem(1 month)	$67,000

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Oversight Contract Adherence	1 FTE
Travel including per diem (4 months)	$117,000
Contractor Costs (4 months)	$460,000
Total Costs	**$644,400**

Residential/Commercial Indoor Cleaning and Sampling

The sampling and cleanup of residences may be needed at certain locations. EPA is still waiting to hear estimates from New York City Agencies on the total number of buildings that may need interior abatement. At this time, EPA is estimating that up to 5000 residences may require cleanup and sampling. This estimate is approximately 45% of the 11,000 residences identified in a 10-block radius of the WTC. Cleanup of the interiors of the building will proceed according to lessons learned above. Chemicals of concern will be developed with the assistance of the advisory/peer review group based on information collected to date.

Cost of Cleanup and Sampling: 5,000 Residencies
$80 Million

Range of Commercial Cleanup and Sampling - TBD

4) Communications Clearinghouse/Outreach Efforts

a) Establish an Office (Clearinghouse) to Respond to Community Concerns

EPA and its federal, state and local partners have completed an extensive amount of communication and outreach activities in response to the collapse of the WTC. Each of the Agencies has provided information through web sites, press releases, and community meetings. However, the WTC was an unprecedented event and there is a requirement to extend our outreach activities to instill confidence and to ensure the public that regulatory Agencies are taking the proper steps to protect human health. As a first step, a location (e.g., trailer, rental space) will be established and staffed daily with multi-agency support for lower Manhattan citizens to visit and ask questions about clean up and sampling.

General Costs:	**$400,000**
OSHA Costs: (per diem, travel/4months)	**$120,000**
Total	**$520,000**

b) Develop and maintain a database of cleanup progress of buildings

The database will consist of approximately 100,000 sample analyses and survey results received

by NYC DEP that have been conducted by building owners, residences, and contractors.

Database Costs: $500,000

c) Develop a coordinated public information campaign.

The public information campaign will likely include releasing radio Public Service Announcements, establishing community meetings, and developing outreach materials such as posters, pamphlets, flyers, and other informational tools which will be available at the clearinghouse. A video demonstrating indoor cleanup techniques may also be developed and disseminated via the clearinghouse. Information from ATSDR's and other on-site work will be used to develop enhanced cleaning protocols, as appropriate.

General Outreach Costs:	**$75,000**
OSHA contract staff (4 months)	**$150,000**
OSHA FTE (travel, per diem/4 months)	**$130,000**

d) Establish a community liaison position

A liaison will be identified to work with local parties to resolve indoor air quality issues.

Costs: $200,000

Total Costs for Communications Clearinghouse is approximately $1,575,000 million

5) Establish an Advisory/Peer Review Group

An advisory/peer review group will be created to provide input to the Indoor Air Task Force. The group would consist of individuals with extensive experience in evaluating indoor air contamination. This advisory group would help comment on such activities as, effectiveness of recommended cleaning procedures for WTC-affected dwellings, identification of contaminants-of-concern, and associated health screening values for the indoor environment. Costs would reimburse group members for their expenses associated with these activities such as travel and per diem. Funds may also be needed to provide stipends for participation by peer review experts.

Cost: $1 million

GRAND TOTAL: $94,653,400

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