



**Department of
Environmental
Protection**

59-17 Junction Boulevard
Corona, New York
11368-5107

**Joel A. Miele Sr., P.E.
Commissioner**

TO: Sam Benson
OEM

FROM: Michael Gilsonen 
Assistant Commissioner

DATE: March 25, 2002

RE: Rooftop and Facade Remediation and Air Monitoring

As requested by Diana Chapin, attached are draft Scopes of Work and cost estimates for the rooftop and building facade remediation, as well as air monitoring.

Also attached is a draft letter to FEMA for your consideration and use, justifying the continuation of air monitoring at 20 sites in the World Trade Center Vicinity. They had requested a letter in order to prepare a worksheet to allocate the estimated \$189,000 required to continue the City's air monitoring efforts beyond April 4, 2002.

If you require any additional information, please feel free to contact me, or Virginia Smyth, of my staff.



www.ci.nyc.ny.us/dep

(718) DEP-HELP

DRAFT

TO: Emily Chacon
Paul Barry
FEMA

FROM: OEM?

DATE:

RE: Air Monitoring at 20 sites in World Trade Center Vicinity

As you know, we have been conducting air monitoring at 20 sites in the vicinity of the World Trade Center. The existing contract with Riverpoint is due to expire on April 4, 2002.

It has been determined that it would be prudent and in the best interests of public health and safety to continue this monitoring while remediation efforts and excavation are underway. A new contract is in the process of being developed and bid to provide for this service. This contract will also include the task of air monitoring during remediation of roof tops and building facades.

It is critical that we monitor the air during these ongoing operations. A copy of the scope of work is attached. The total cost of the contract is estimated to be \$548,200 which includes an estimate for the 20 sites of \$189,000. The contract is to be in effect for a period of 120 days.

If you require any additional information, please contact Virginia Smyth or myself.

**NEW YORK CITY
DEPARTMENT OF ENVIRONMENTAL PROTECTION
ASBESTOS CONTROL PROGRAM
AIR MONITORING AND ANALYSIS
BID SHEET
ESTIMATED COST**

The cost of each item must include the preparation, quality assurance and control, clean-up, storage of samples etc., normally associated with the sampling, visual inspection and analysis and producing the reports requested.

Item No	Description of Item	Turnaround Time (hours)	Unit Price	Estimated Quantity	Cost
1	Air Monitoring Technician(Conduct Air Sampling)	N/A	\$ 35.00 /hour	5120 hours	\$ 179,200
2	TEM Sample Analysis by AHERA Method	24 hours	\$ 45 /sample	2000 samples	\$ 90,000
3	Air Monitoring Technician(Conduct visual clearance inspection)	N/A	\$ 225.00 /inspection	400 visual inspections	\$ 90,000

(PROJECT 1)

BID TOTAL PROJECT 1 = Sum of Cost, Item 1-3 \$ 359,200

Item No	Description of Item	Turnaround Time (hours)	Unit Price	Estimated Quantity	Cost
1	Air Monitoring Technician(Conduct Air Sampling)	N/A	\$ 35.00 /hour	4000 hours	\$ 140,000
2	TEM Sample Analysis by AHERA Method	24 hours	\$ 45 /sample	200 samples	\$ 9,000
3	PCM Sample Analysis by NIOSH 7400 METHOD	24 hours	\$ 20 /sample	2000 SAMPLES	\$ 40,000

(PROJECT 2)

BID TOTAL PROJECT 2 = Sum of Cost, Item 1-3 \$ 189,000

NYC DEPARTMENT OF ENVIRONMENTAL PROTECTION

Total Number of buildings 250

CLEAN UP COST - ROOF

<u>Estimated area</u> <u>of contamination</u> <u>Sq.ft</u>	<u>% of</u> <u>buildings</u>	<u>Number of</u> <u>Buildings</u>	<u>Clean-up</u> <u>cost</u>	<u>Total cost</u>
10000	10	25	\$3	\$750,000
5000	20	50	\$4	\$1,000,000
2500	70	175	\$8	\$3,500,000
		250		
Total Cost for cleaning roofs				\$5,250,000

CLEAN UP COST - FAÇADE

Total number of facades 150 (114+36)

<u>Estimated area</u> <u>of contamination</u> <u>Sq.ft</u>	<u>% of</u> <u>buildings</u>	<u>Number of</u> <u>Buildings</u>	<u>Clean-up</u> <u>cost</u>	<u>Total cost</u>
10000	20	30	\$5	\$1,500,000
5000	80	120	\$5	\$3,000,000
Total cleaning cost for façade				\$4,500,000

AIR MONITORING COST

1 Cost for air monitoring tech	\$35 per hour	
2 Cost TEM anaysis	\$45 per sample	
	Roof	
3 Number of sites		250
4 Number of samples per site		5
5 Total number of samples		1250
6 Estimated number of man-days		400
7 Number of man-hours		3200
8 Total cost for air monitoring tech.		\$112,000
9 Total cost for sample analysis		\$56,250
10 Total cost Sampling & Analysis		\$168,250
11 Air Monitring Technician - visual clearance inspector	\$90,000	
12 Total Cost of sampling & analysis for both façade & roof	\$269,200	
13 TOTAL COST for inspection, sampling & analysis	\$359,200	

CLEAN UP & AIR MONITORING COST

14 Total Cost for cleaning roofs	\$5,250,000
15 Total cleaning cost for façade	
16 Total	\$5,418,250
17 TOTAL COST OF THE PROJECT	\$10,288,400