

DDD:

The collapse of the World Trade Centers (WTC) on September 11, 2001 caused a massive cloud of pulverized concrete and dust to impact neighboring buildings blocks away from the World Trade Center complex. The Murry Bergtraum High School for Business Carriers (M520) is located at 411 Pearl Street, approximately 2000 feet from the Ground Zero disaster area. The dust cloud from the collapse of the WTC buildings directly impacted the school and covered the building with a layer of dust. The New York City Board of Education contracted ATC Associates to perform indoor air quality assessments and air monitoring services, as well as water quality testing to ensure that the air and water quality was acceptable for the re-occupancy of students and staff.

SOW:

Work complete consisted of the expenses incurred by the New York City Board of Education (BoE) for the work performed by ATC Associates, a contractor to BoE at Murry High School. The total eligible work is a compilation of two invoices (that are attached to this project worksheet). These include:

Payment #4 include technical services costs and sample analyses costs to conduct air quality testing in November 01, as indicated on invoice. Actual labor was performed between November 13 to 18, 2001. The total eligible contract cost for Payment #4 was \$20,620.00. See Narrative for a detailed breakdown of costs.

Payment #16 include technical services costs, equipment costs and sample analyses costs to conduct air quality testing from November 01 to March 02, as indicated on invoice. Actual labor was performed between November 15 - 19, 2001. The total eligible contract cost for Payment #16 was \$5,337.50. See Narrative for a detailed breakdown of costs.

Payment #30 includes technical services costs, equipment costs and sample analyses costs to conduct air quality testing from July 1 to September 10, 2002. The total eligible contract cost for Payment #30 was \$15,133.50.

Total eligible contract cost for this project worksheet is \$41,091.00.

DECLARATION NO: FEMA- 1391 -DR- NY	PROJECT NO.	FIPS NO. 061-51000-22	DATE 03/17/03	CATEGORY B
DAMAGE FACILITY Air Quality Testing			WORK COMPLETE AS OF: 09/10/02 : 100 %	
APPLICANT New York City, Board of Education		COUNTY New York		

NARRATIVE

ATC Associates conducted air and waster testing at downtown schools. At Murry High School (also referred to as M520) between November 2001 and September 2002 air testing was completed for asbestos and respirable particulates. Invoices #4, #16 and #30 are additions to Invoice #68 for \$4,790 eligible cost for the Murry School, incurred between October - November 2001 and funded under PW #1075 - Air Quality Testing for New York City Schools.

Payment #4 includes technical services costs and sample analyses costs to conduct air quality testing in November 2001, as indicated on payment, for BoE contract 3E75253. ATC Associates' eligible contract work for this invoice was divided in two categories: labor and testing. ATC Associates labor consisted of 5 technicians working a total of 64 hours at a total cost of \$3,520.00 and 1 project manager working a total of 2.5 hours at a total cost of \$200.00. ATC performed only asbestos air sample analysis, in particular Transmission Electron Microscopy (TEM). The 130 TEM ambient air tests were conducted at a total cost of \$16,900.00. **The total eligible contract cost for Payment #4 was \$20,620.00.**

Payment #16 includes technical services costs, equipment costs and sample analyses costs to conduct air quality testing from November 2001 to March 2002, as indicated on payment, for BoE contract 3U75378. ATC Associates' eligible contract work for this invoice was divided in two categories: labor and equipment. ATC Associates labor consisted of 3 technicians working 62 hours at a cost of \$3,720.00, 3 project managers working a total of 9.0 eligible hours at a cost of \$892.50. Total labor cost was \$4,612.50. Equipment used by ATC included different types of air monitors that were placed around the school, as well as handheld monitors that checked for respirable particulates. This equipment charges are per day, and the 3 various monitors were used for a total of 13 days at cost of \$725.00. Only air monitoring was done at this period using, and there were no additional laboratory costs included with this invoice. **The total eligible contract cost for Payment #16 was \$5,337.50.**

Payment #30 includes technical services costs, equipment costs and sample analyses costs to conduct air quality testing from July to October, 2002, as indicated on payment, for BoE contract 3E75253. Although the invoice goes through October 2002, actual work for this period was complete as of September 10, 2002. ATC Associates' eligible contract work for this invoice was divided in three categories: labor, equipment and testing. ATC Associates labor consisted of 3 technicians working 31.5 hours at a cost of \$1,890.00, 2 project managers working a total of 14.5 hours at a cost of \$1,015.00, and 4 inspectors working 22 hours at a cost of \$1,462.50. ATC performed tested air and dust for metals, asbestos, lead, dioxin, PCB and particulate matter, for a total cost of \$10,271.00. Total labor cost was \$4,367.50. Equipment used by ATC included different types of air monitors that were placed around the school, as well as handheld monitors that checked for respirable particulates. The equipment charges are per day, at a total cost of \$495.00. **The total eligible contract cost for Payment #30 was \$15,133.50.**

Payments #4, #16 and #30 are electronic attachments to this PW and include work completed as of September 10, 2002. The backup information includes field verification forms of hours spent by technicians on the site, field notes and ATC billable labor costs. ATC Associates, Inc. performing under specification #OMA007L-01, contract #3U75378 as an environmental services laboratory and/or consultant, is not covered under New York State Labor Law Section 220 and or Section 230, and as such, is not required to submit payroll reports.

Samples were taken and billed labor hours checked against the payment. In particular, all 7 employees' labor hours included with Payment #4 were checked against the field verification form and found to be correct.

DECLARATION NO: FEMA- 1391 -DR- NY	PROJECT NO.	FIPS NO. 061-51000-22	DATE 03/17/03	CATEGORY B
DAMAGE FACILITY Air Quality Testing			WORK COMPLETE AS OF: 09/10/02 : 100 %	
APPLICANT New York City, Board of Education		COUNTY New York		

Murry Bergtraum High School (M520)**Payment #4****Labor Costs**

Name	Title	Hours	Unit Cost	Total Cost
D. Balota	Technician	16	\$ 55.00	\$ 880.00
J. Choy	Technician	16	\$ 55.00	\$ 880.00
A. Kholodenko	Technician	16	\$ 55.00	\$ 880.00
C. Matthew	Technician	8.5	\$ 55.00	\$ 467.50
J. Phillips	Technician	7.5	\$ 55.00	\$ 412.50
			\$ -	\$ -
Total Labor Cost				\$ 3,520.00

Name	Title	Hours	Unit Cost	Total Cost
A. Andreou	Project Manager	2.5	\$ 80.00	\$ 200.00
			\$ -	\$ -
Total Labor Cost				\$ 200.00

Analysis & Testing Costs

Test	Type	No. (Tests)	Unit Cost	Total Cost
Asbestos/Fiberglass Air	TEM, Rush TAT	130	\$ 130.00	\$ 16,900.00
			\$ -	\$ -
			\$ -	\$ -
Total Analysis & Testing Costs				\$ 16,900.00

Total Eligible Cost for Payment #4

Labor Costs	\$ 3,720.00
Analysis & Testing Costs	\$ 16,900.00
TOTAL	\$ 20,620.00

DECLARATION NO: FEMA- 1391 -DR- NY	PROJECT NO.	FIPS NO. 061-51000-22	DATE 03/17/03	CATEGORY B
DAMAGE FACILITY Air Quality Testing			WORK COMPLETE AS OF: 09/10/02 : 100 %	
APPLICANT New York City, Board of Education		COUNTY New York		

Murry Bergtraum High School (M520)**Payment #16****Labor Costs**

Name	Title	Hours	Unit Cost	Total Cost
W. Abdelshahid	IH Technician	32	\$ 60.00	\$ 1,920.00
T. Namgyal	IH Technician	16	\$ 60.00	\$ 960.00
Y. Efsthathiou	IH Technician	14	\$ 60.00	\$ 840.00
A. Andreou	Project Manager	1.5	\$ 80.00	\$ 120.00
J. Cohn	Project Manager	0.5	\$ 110.00	\$ 55.00
A. Andreou	Project Manager	3.5	\$ 80.00	\$ 280.00
M. Parpounas	Project Manager	3.5	\$ 125.00	\$ 437.50
			\$ -	\$ -
Total Labor Cost				\$ 4,612.50

Equipment Costs

Equipment	Type	No. (Days)	Unit Cost	Total Cost
Monitor	Q-TRAC	3	\$ 75.00	\$ 225.00
Monitor	Hand held, aerosol	5	\$ 50.00	\$ 250.00
Monitor	PID	5	\$ 50.00	\$ 250.00
			\$ -	\$ -
Total Equipment Cost				\$ 725.00

Total Eligible Cost for Payment #16

Labor Costs	\$ 4,612.50
Equipment Costs	\$ 725.00
TOTAL	\$ 5,337.50

DECLARATION NO: FEMA- 1391 -DR- NY	PROJECT NO.	FIPS NO. 061-51000-22	DATE 03/17/03	CATEGORY B
DAMAGE FACILITY Air Quality Testing			WORK COMPLETE AS OF: 09/10/02 : 100 %	
APPLICANT New York City, Board of Education		COUNTY New York		

Murry Bergtraum High School (M520)**Payment #30****Labor Costs**

Name	Title	Hours	Unit Cost	Total Cost
M. Nakhumovich	IAQ Technician	4	\$ 60.00	\$ 240.00
T. Namgyal	IAQ Technician	15	\$ 60.00	\$ 900.00
S. Ramlal	IAQ Technician	12.5	\$ 60.00	\$ 750.00
	<i>Subtotal:</i>		\$	1,890.00
A. Javal	Project Management	7	\$ 70.00	\$ 490.00
Y. Efstathiou	Project Management	7.5	\$ 70.00	\$ 525.00
	<i>Subtotal:</i>		\$	1,015.00
T. Astislavskiy	Sampling Technician	10.5	\$ 55.00	\$ 577.50
M. Nakhumovich	Certified Lead Inspector	4	\$ 65.00	\$ 260.00
M. Nakhumovich	NYC Investigator	4	\$ 60.00	\$ 240.00
J. Cohn	CIH	3.5	\$ 110.00	\$ 385.00
	<i>Subtotal:</i>		\$	1,462.50
Total Labor Cost				\$ 4,367.50

Analysis & Testing Costs

Test	Type	No. (Tests)	Unit Cost	Total Cost
12 metals (ICP scan)	Air	60	\$ 26.50	\$ 1,590.00
Hydrocarbons	Air	4	\$ 125.00	\$ 500.00
Mercury	Air	4	\$ 43.50	\$ 174.00
Silica Dust	Air	4	\$ 120.00	\$ 480.00
Asbestos/Fiberglass Air	Dust	11	\$ 20.00	\$ 220.00
Lead	Dust	12	\$ 25.00	\$ 300.00
Dioxin	Dust wipe	4	\$ 900.00	\$ 3,600.00
PCB	Dust wipe	4	\$ 100.00	\$ 400.00
Asbestos/Fiberglass Air	Air, TEM - RUSH	23	\$ 130.00	\$ 2,990.00
Particulate Matter	Air	1	\$ 17.00	\$ 17.00
			\$ -	\$ -
Total Analysis & Testing Costs				\$ 10,271.00

Equipment Costs

Equipment	Type	No. (Days)	Unit Cost	Total Cost
Pump	Low volume air	12	10	\$ 120.00
Monitor	Micro	2	100	\$ 200.00
Monitor	Hand held, aerosol	1	50	\$ 50.00
Monitor	PID	1	\$ 50.00	\$ 50.00
Monitor	Q-TRAK	1	\$ 75.00	\$ 75.00
			\$ -	\$ -
Total Equipment Cost				\$ 495.00

Total Eligible Cost for Payment #30

Labor Costs	\$	4,367.50
Analysis & Testing Costs	\$	10,271.00
Equipment Costs	\$	495.00
TOTAL	\$	15,133.50

DECLARATION NO: FEMA- 1391 -DR- NY	PROJECT NO.	FIPS NO. 061-51000-22	DATE 03/17/03	CATEGORY B
DAMAGE FACILITY Air Quality Testing			WORK COMPLETE AS OF: 09/10/02 : 100 %	
APPLICANT New York City, Board of Education		COUNTY New York		

Murry Bergtraum High School (M520)

Total Eligible Cost

Payment #4 : November 2001	\$ 20,620.00
Payment #16 : November - March 2002	\$ 5,337.50
Payment #30 : July - October 2002	\$ 15,133.50
Total Eligible Actual Costs	\$ 41,091.00

Murry Bergtraum High School (M520)**Total Eligible Cost**

Payment #4 : November 2001	\$	20,620.00
Payment #16 : November - March 2002	\$	5,337.50
Payment #30 : July - October 2002	\$	15,133.50
Total Eligible Actual Costs	\$	41,091.00

Murry Bergtraum High School (M520)**Payment #4****Labor Costs**

Name	Title	Hours	Unit Cost	Total Cost
D. Balota	Technician	16	\$ 55.00	\$ 880.00
J. Choy	Technician	16	\$ 55.00	\$ 880.00
A. Kholodenko	Technician	16	\$ 55.00	\$ 880.00
C. Matthew	Technician	8.5	\$ 55.00	\$ 467.50
J. Phillips	Technician	7.5	\$ 55.00	\$ 412.50
			\$ -	\$ -
Total Labor Cost				\$ 3,520.00

Name	Title	Hours	Unit Cost	Total Cost
A. Andreou	Project Manager	2.5	\$ 80.00	\$ 200.00
			\$ -	\$ -
Total Labor Cost				\$ 200.00

Analysis & Testing Costs

Test	Type	No. (Tests)	Unit Cost	Total Cost
Asbestos/Fiberglass Air	TEM, Rush TAT	130	\$ 130.00	\$ 16,900.00
			\$ -	\$ -
			\$ -	\$ -
Total Analysis & Testing Costs				\$ 16,900.00

Total Eligible Cost for Payment #4

Labor Costs	\$ 3,720.00
Analysis & Testing Costs	\$ 16,900.00
TOTAL	\$ 20,620.00

Murry Bergtraum High School (M520)**Payment #16****Labor Costs**

Name	Title	Hours	Unit Cost	Total Cost
W. Abdelshahid	IH Technician	32	\$ 60.00	\$ 1,920.00
T. Namgyal	IH Technician	16	\$ 60.00	\$ 960.00
Y. Efstathiou	IH Technician	14	\$ 60.00	\$ 840.00
A. Andreou	Project Manager	1.5	\$ 80.00	\$ 120.00
J. Cohn	Project Manager	0.5	\$ 110.00	\$ 55.00
A. Andreou	Project Manager	3.5	\$ 80.00	\$ 280.00
M. Parpounas	Project Manager	3.5	\$ 125.00	\$ 437.50
			\$ -	\$ -
Total Labor Cost				\$ 4,612.50

Equipment Costs

Equipment	Type	No. (Days)	Unit Cost	Total Cost
Monitor	Q-TRAC	3	\$ 75.00	\$ 225.00
Monitor	Hand held, aerosol	5	\$ 50.00	\$ 250.00
Monitor	PID	5	\$ 50.00	\$ 250.00
			\$ -	\$ -
Total Equipment Cost				\$ 725.00

Total Eligible Cost for Payment #16

Labor Costs	\$ 4,612.50
Equipment Costs	\$ 725.00
TOTAL	\$ 5,337.50

Murry Bergtraum High School (M520)**Payment #30****Labor Costs**

Name	Title	Hours	Unit Cost	Total Cost
M. Nakhumovich	IAQ Technician	4	\$ 60.00	\$ 240.00
T. Namgyal	IAQ Technician	15	\$ 60.00	\$ 900.00
S. Ramlal	IAQ Technician	12.5	\$ 60.00	\$ 750.00
	<i>Subtotal:</i>	\$		1,890.00
A. Javal	Project Management	7	\$ 70.00	\$ 490.00
Y. Efstathiou	Project Management	7.5	\$ 70.00	\$ 525.00
	<i>Subtotal:</i>	\$		1,015.00
T. Astislavskiy	Sampling Technician	10.5	\$ 55.00	\$ 577.50
M. Nakhumovich	Certified Lead Inspector	4	\$ 65.00	\$ 260.00
M. Nakhumovich	NYC Investigator	4	\$ 60.00	\$ 240.00
J. Cohn	CIH	3.5	\$ 110.00	\$ 385.00
	<i>Subtotal:</i>	\$		1,462.50
Total Labor Cost				\$ 4,367.50

Analysis & Testing Costs

Test	Type	No. (Tests)	Unit Cost	Total Cost
12 metals (ICP scan)	Air	60	\$ 26.50	\$ 1,590.00
Hydrocarbons	Air	4	\$ 125.00	\$ 500.00
Mercury	Air	4	\$ 43.50	\$ 174.00
Silica Dust	Air	4	\$ 120.00	\$ 480.00
Asbestos/Fiberglass Air	Dust	11	\$ 20.00	\$ 220.00
Lead	Dust	12	\$ 25.00	\$ 300.00
Dioxin	Dust wipe	4	\$ 900.00	\$ 3,600.00
PCB	Dust wipe	4	\$ 100.00	\$ 400.00
TEM	Air	23	\$ 130.00	\$ 2,990.00
Particulate Matter	Air	1	\$ 17.00	\$ 17.00
			\$ -	\$ -
Total Analysis & Testing Costs				\$ 10,271.00

Equipment Costs

Equipment	Type	No. (Days)	Unit Cost	Total Cost
Pump	Low volume air	12	10	\$ 120.00
Monitor	Micro	2	100	\$ 200.00
Monitor	Hand held, aerosol	1	50	\$ 50.00
Monitor	PID	1	\$ 50.00	\$ 50.00
Monitor	Q-TRAK	1	\$ 75.00	\$ 75.00
			\$ -	\$ -
Total Equipment Cost				\$ 495.00

Total Eligible Cost for Payment #30

Labor Costs	\$ 4,367.50
-------------	-------------

Analysis & Testing Costs	\$	10,271.00
Equipment Costs	\$	495.00
TOTAL	\$	15,133.50