

workplan.hw.130088.2011-03-31.D004446-21_DBCE.pdf

New York State Department of Environmental Conservation

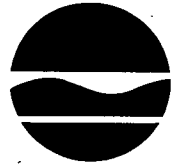
Division of Environmental Remediation

Bureau of Program Management, 12th Floor

625 Broadway, Albany, NY 12233-7012

Phone: (518) 402-9764 • **Fax:** (518) 402-9722

Website: www.dec.ny.gov



Joe Martens
Commissioner

March 31, 2011

Mr. Richard Walka
Dvirka & Bartilucci Consulting Engineers
330 Crossways Park Drive
Woodbury, NY 11797-2015

**RE: Schedule 2.11s Approval
Work Assignment #D004446-21.1
123 Post Avenue, Site #130088
Remedial Design**

Dear Mr. Walka:

The New York State Department of Environmental Conservation's Division of Environmental Remediation hereby approves the attached Schedule 2.11s for the above referenced work assignment (WA), increasing the present budget by \$249,992 for a total WA budget of \$435,159. D & B may now submit a request for reimbursement for work completed under this WA.

If you have any questions regarding this WA, please contact the Project Manager, Nathan Putnam, at (518) 402-9621.

Sincerely,

Eric R. Obrecht, P.E.
Chief
Contracts and Payments Section
Bureau of Program Management
Division of Environmental Remediation

Attachment

cc: rwalka@db-eng.com
N. Putnam, PM
L. Lewis, CM
E. Obrecht
D. Desnoyers
R. Schick
D. Weigel
J. Harrington
G. Bobersky
D. Finlayson
T. Wolosen
M/WBE Unit

From: Nathan Putnam
To: Lisa Lewis
Date: 3/31/2011 1:20 PM
Subject: Re: 123 Post Avenue - OU1 - Comments on budget pages

Lisa,

I Nathan Putnam the project manager of the site, approve the amended 2.11s.

Please note that this project is for the OU2 not OU1.

Thanks,

Nathan E. Putnam, P.E.
Environmental Engineer
NYS DEC
Division of Environmental Remediation
518-402-9621

>>> Lisa Lewis 3/29/2011 1:08 PM >>>
Hi Maria-

I've completed my review of the Post Ave amendment 2.11s and I am satisfied with them as is (including the two revised pages you've already submitted).

I need only a couple of minor revisions from you:

1. On the first page of the cover letter, please write "Work Assignment D004446-21.1" and delete the line that says "Amendment No. 1." (Don't worry about changing all the other pages that say D004446-21A.1 - they're fine as is.) Also, in the first paragraph, the date of the NYSDEC e-mail should be November 18, **2010** - not 2011.

2. On Schedule (b-1), the hours are fine. However, for some reason some costs at the bottom aren't totaling correctly. Level IX should be **\$97**, Level II should be **\$1,010**, and the total overall (b-1) cost should be **\$1,471**.

If you send me those two revised sheets I'll replace them at my end.

Nathan - Please send me your approval of the Schedule 2.11s.

Thanks,
Lisa

Lisa M. Lewis
Contract Manager
NYS Dept. of Environmental Conservation
Division of Environmental Remediation
Bureau of Program Management
Contracts & Payments Section
625 Broadway, 12th Floor
Albany, NY 12233-7012

Phone: (518) 402-9601
Fax: (518) 402-9722

Email: lmlewis@gw.dec.state.ny.us

>>> "Maria Wright" <MWright@db-eng.com> 3/21/2011 1:44 PM >>>
Lisa-

Please find attached the amendment for the above referenced site. If you have any questions or require any additional information, please give me a call.

Thank you, <<amendment.hw.130088..pdf>>

Maria Wright, P.E.
db | Dvirka and Bartilucci Consulting Engineers
(516) 364-9890 x 3060 (phone)
(516) 364-9045 (fax)
330 Crossways Park Drive
Woodbury, NY 11797

P Please consider the environment before printing this e-mail.

CONFIDENTIALITY NOTICE: This e-mail message, including attachments, is for the sole use of the intended recipient and may contain confidential, proprietary, and/or privileged information. Any unauthorized review, use, disclosure, or distribution is prohibited. If you are not an intended recipient or you have received this e-mail in error, please contact the sender by reply e-mail and destroy all copies of the original message.

From: "Maria Wright" <MWright@db-eng.com>
To: <lmlewis@gw.dec.state.ny.us>
Date: 3/28/2011 11:48 AM
Subject: FW: Utilization Plan Approved for Contract Number D004446

Hi Lisa-

Just wanted to make sure you received the revised pages for 123 Post Avenue I sent Friday. Also, I believe this is the UP approval for 123 Post Avenue - I did not see that you were copied on the email so I just wanted to make sure you were notified.

Thanks,

Maria Wright, P.E.
db | Dvirka and Bartilucci Consulting Engineers
(516) 364-9890 x 3060 (phone)
(516) 364-9045 (fax)
330 Crossways Park Drive
Woodbury, NY 11797

P Please consider the environment before printing this e-mail.

CONFIDENTIALITY NOTICE: This e-mail message, including attachments, is for the sole use of the intended recipient and may contain confidential, proprietary, and/or privileged information. Any unauthorized review, use, disclosure, or distribution is prohibited. If you are not an intended recipient or you have received this e-mail in error, please contact the sender by reply e-mail and destroy all copies of the original message.

-----Original Message-----

From: Michele June [mailto:majune@gw.dec.state.ny.us]
Sent: Monday, March 28, 2011 11:44 AM
To: Maria Wright
Subject: Utilization Plan Approved for Contract Number D004446

Dear Sir/Madam:

The Bureau of Affirmative Action and Minority and Women's Business Programs (BAA/W/WBP) is responsible for the administration of the Department of Environmental Conservation's (DEC) Minority and Women's Business Enterprise-Equal Employment Opportunity (M/WBE-EEO) Program. The M/WBE-EEO Program serves to assure that NY State certified minority and women-owned business enterprises (M/WBEs) are provided access to contracting opportunities. The program also ensures that minorities and women are provided equal access to employment opportunities (EEO) created by the expenditure of public funds. The Office of Minority and Women's Business Programs is in receipt of your firm's utilization plan. Based on our review, the following comments are provided for your information

A. The contractor's detailed M/WBE utilization plan for the above contract/work assignment has been approved.

B. To be in compliance with the M/WBE-EEO program requirements, please ensure that the following procedures are followed:

That legally signed and executed M/WBE subcontracts are maintained in your files for review by the NYSDEC.

That copies of purchase orders (if used) along with copies of both sides of legally signed and canceled checks; need to be kept to verify actual payment to M/WBE's. These documents are to be kept in your files and made available when requested, for review by the NYSDEC.

Please provide this office, within fifteen (15) business days of the close of each federal fiscal quarter, a quarterly report listing of all M/WBE subcontracts on record for each prime contract and/or legally signed purchase orders. Please include date of award for each M/WBE subcontract, total dollar value and scope of work.

The OMWBP must be notified immediately of changes to the approved Utilization Plan along with the following documentation:

Records indicating reasonable steps to promptly replace and MBE or WBE subcontractor that is unable to perform successfully with another MBE or WBE; Copies of the correspondence or any information relevant to the change.

If you require assistance in obtaining the names of NYS certified M/WBEs that specialize in the tasks contained in your documents, you may access the Empire State Development Corporation's M/WBE Directory via the Internet at: <http://www.nylovesmwbe.ny.gov/cf/search.cfm> or contact me at (518) 402-9311.

Sincerely,

Compliance Specialist I/Minority
Business Specialist I

Cost Review for Schedule 2.11 Package

Contractor Name: Dvirka & Bartilucci

Date: 3/30/11

WA # and Name: 123 Post Avenue OU#1, D004446-21.1

Reviewer: Lisa Lewis

GENERAL COST REVIEW CHECKLIST		Yes	No	Comments
	A complete set of 2.11 Schedules (a) through (h) is attached.	X		
	Budget package includes a cover letter and an M/WBE Utilization Plan.	X		
1	Cover Letter			
	Provides brief justification of the budget supported by the 2.11s.	X		
	Anticipated completion date(s) for the work are included. For amendments, there is an explanation of how the submittal affects the existing schedule.	X		
	Duration of anticipated work does not exceed the next fiscal year. (Work subsequent to that should be part of a future amendment or new work assignment.)	X		
	If proposing work for multiple years, a brief justification is included.	~	~	N/A
	Includes anticipated billings by State fiscal year. For amendments, both the unexpended budget and the new costs being added are identified.	X		
	If an amendment, the current status of work (what's completed/billed, what remains) is provided.	X		
2	Schedule 2.11(b) - Direct Labor			
	Average reimbursement rates are used for each year. Future years escalate 3%.	X		
	Hours are segregated by year.	X		
	Total cost for each NSPE level is shown.	X		
	Total direct labor costs match amounts on Schedule 2.11(a).	X		
	The Principal's (NSPE IX) labor hours charged to WA are less than 2% of the total.	X		
	Total labor hours match hours on Schedule 2.11(h).	X		
3	Schedule 2.11(b-1) - Direct Administrative Labor Hours			
	Breakdown of Schedule 2.11(b-1) is reasonable, i.e., admin LOE is within acceptable guideline of <4% of overall WA LOE. Justification is attached for any exceedance.	X		
4	Schedules 2.11(c) and (d) - Direct Non-Salary Costs			
	Rates listed in Schedule 2.11(c) are consistent with contract.	X		
	Rates for in-house and/or misc. costs match contract Schedule 2.10(b) or 2.10(c) (2).	X		
	Quotes are included for any non-contract item (including equipment purchases & rentals; excluding air fare) >\$1k. If sufficient number of quotes are unavailable, an engineer's estimate must be provided. The low quote has been selected.	~	~	N/A
	All costs are allowable, e.g., office telephone and office shipping cannot be reimbursed as a direct cost if they're included in ICR. Field costs must be receipted.	X		
	Appropriate lodging/per diem/mileage rates are used.	X		
	Schedule 2.11(d)1 - All equipment purchased is supported by cost justification that's acceptable to the CM. Equipment is to be maintained by the contractor or turned over to DEC, and it must be added to contractor's inventory list (include a revised copy).	~	~	N/A
	Schedule 2.11(d)2 - Rates for consultant-owned equipment match Schedule 2.10(c).	~	~	N/A
	Schedule 2.11(d)4 - Includes equipment to be used only on the WA (such as blower purchased to upgrade SVE system).	X		
	Other direct costs (no. of field days, lodging, and field equipment usage) are reasonable based on field work schedule or supporting documentation.	X		
	Total of direct non-salary costs matches the amount on Schedule 2.11(a).	X		

5	Schedule 2.11(e) - Cost-plus-fixed-fee subcontracts			
	Proposed subconsultant is on standby or has DEC-approved rates with another standby consultant. Otherwise, financial information required for cost analysis must be submitted.	X		
	Standby subcontract is active and rates (salary, direct and indirect costs, and fixed fee) match contract rates.	X		
	A breakdown of direct non-salary costs is provided.	X		
	Total subcontract cost matches amount on Schedule 2.11(a).	X		
	Subcontractor has justified/obtained adequate quotes for any further subcontracted work.	~	~	N/A
	Subcontractor certification(s) have been submitted.	X		
6	Schedule 2.11(f) - Unit Price Subcontracts			
	There are quotes for non-standby subcontracts >\$1k. Bids are comparable (quantities and items) and provide unit costs plus job total. If sufficient number of quotes are unavailable, an engineer's estimate must be provided. The low quote has been selected.	~	~	All subs are continued
	<i>Standby Drillers</i> (Two phase process) - Quotes from all standbys are attached. Proper unit costs and mobilization/demobilization costs are used. The low quote has been selected. <u>Explanation for declinations has been provided.</u>	X		
	<i>Standby Labs and Data Validators</i> (rotate use) - Unit costs match those in contract(s).	X		
	<i>M/WBE</i> - Cost reasonableness of sole/single source M/WBE contracts <\$10k are documented by an engineer's estimate.	~	~	N/A
	Cost reasonableness of sole/single source contracts are documented by an engineer's estimate or other cost comparisons (e.g., historical costs, pricing guides).	~	~	N/A
	Placeholders are used only for non-standby subcontractors.	~	~	N/A
	Cost reasonableness of placeholder subcontractors are documented by an engineer's estimate or other cost comparisons.	~	~	N/A
	Correct contract management fee is calculated only on non-professional unit priced subs >\$10k and M/WBE firms from \$1. (Management fee is not allowed on professional engineering firms, architects, or surveyors unless the contract specifically allows it.)	X		
	Total subcontract costs match the amounts on Schedule 2.11(a).	X		
	Justification is attached for subcontracts >\$100,000 supporting a determination not to design and competitively bid the work. Response-type activities (drum removals, other construction-type activities) must be competitively bid unless otherwise approved.	~	~	N/A
	Subcontractor certification(s) have been submitted.	X		
7	Schedule 2.11(g) - Cost Control Report			
	Individual 2.11(g)s equal Summary 2.11(g) and costs match those on 2.11(a).	X		
8	Schedule 2.11(g) - Supplemental - Cost Control Report (subs)			
	Includes all applicable subcontracts and management fees (for unit price only).	X		
9	Schedule 2.11(a)			
	Rates for indirect and fixed fee match contract rates.	X		
	All numbers rolled up into Schedule 2.11(a) add up.	X		

rev. 8/23/10



Dvirka and Bartilucci

CONSULTING ENGINEERS

330 Crossways Park Drive, Woodbury, New York 11797-2015
516-364-9890 • 718-460-3634 • Fax: 516-364-9045
www.dvirkaandbartilucci.com

✓ APPROVED
LML 3/30/11

Board of Directors

Henry J. Chlupsa, P.E.
President & Chairman

Steven A. Fangmann, P.E., BCEE
Executive Vice President

Robert L. Raab, P.E.
Vice President

Vice Presidents

Richard M. Walka
Senior Vice President

Dennis F. Koehler, P.E.
Senior Vice President

Joseph H. Marturano
Senior Vice President

Garrett M. Byrnes, P.E.
Vice President

Thomas P. Fox, P.G.
Vice President

William D. Merklin, P.E.
Vice President

Harvey P. Moutal, P.E., BCEE
Vice President

Michael Neuberger, P.E.
Vice President

Kenneth J. Pritchard, P.E.
Vice President

Theodore S. Pytlar, Jr.
Vice President

Michael E. Urtnowski
Vice President

Brian M. Velth, P.E.
Vice President

Charles J. Wachsmuth, P.E.
Vice President

Senior Associates

Steven M. Cabrera

Christopher M. Clement

Rob J. DeGiorgio, P.E., CPESC

Joseph A. Fioraliso, P.E.

Michael R. Hofgren

Richard W. Lenz, P.E.

Phillip R. Sachs, P.E.

Daniel Shabat, P.E.

Associates

Joseph F. Baader

Rudolph F. Cannavale

Ellen R. DeOrsay

Matthew R. DeVinney, P.E.

Frank DeVita

Christopher W. Francis

Christopher Koegel

Christopher M. LeHanka

James J. Magda

Olga Mubarak-Jaramillo

Roger W. Owens

Robbin A. Petrella

Edward J. Reilly

Jason R. Tonne

March 16, 2011

Lisa Lewis, Contract Manager
Division of Environmental Remediation
New York State Department of Environmental Conservation
625 Broadway
Albany, NY 12233-7010

Re: 123 Post Avenue – Operable Unit 02
NYSDEC Site Registry No. 1-30-088
Work Assignment D004446-21.1
D&B No. 2599

Dear Ms. Lewis:

The New York State Department of Environmental Conservation (NYSDEC) has requested Dvirka and Bartilucci Consulting Engineers (D&B) to prepare an amendment to the above-referenced work assignment to undertake a chemical oxidation injection at the 123 Post Avenue - OU2 site. Per an e-mail we received from NYSDEC on November 18, 2010, the Department has requested D&B to design a chemical oxidation injection plan in the area of Lennox Avenue, Bedford Avenue, and along South Grand Street as necessary (see Figure 1). We understand that the overall goals of the Department with respect to this assignment include:

- the depth of the injection wells should target the highest contamination above 120 feet below grade;
- an appropriate number of injection wells should be installed;
- an appropriate number of monitoring wells should be installed to show the impact of the injections;
- an appropriate number of monitoring wells should be installed to show the transport of injected material toward the supply well; and
- an appropriate number of monitoring wells should be installed to show the transport of injected materials to depths greater than 120 feet below grade.

Lisa Lewis, Contract Manager
Division of Environmental Remediation
New York State Department of Environmental Conservation
March 16, 2011

Page 2

NYSDEC also indicated that the installation of the injection and monitoring wells, as well as the injection of the chemical oxidant, will be performed by a NYSDEC call out contractor.

A description of the additional work is discussed below:

Task 3A – Scoping/Amendment Preparation(to be performed during Fiscal Years 2010–2011 and 2011-2012)

This subtask will include the cost to develop the scope of work and prepare the amendment (including Schedule 2.11s) for the project. The original work assignment was rebudgeted in April 2010 to reallocate funds to perform additional deep groundwater sampling which was performed in the Spring of 2010. The cost to complete the work described below has been incorporated into to Task 3 of the work assignment, which has been renamed Chemical Oxidation Injection.

D&B will prepare a scope of work for the installation of the injection and groundwater monitoring wells to be provided to a NYSDEC standby contractor. The plan will include details regarding well installation and construction.

The scope of work will also include the details for the chemical oxidation injection. The scope of work will include the type and volume of oxidant to be injected and details regarding the minimum requirements for injection. Either sodium permanganate or potassium permanganate will be the oxidant utilized; both of which will be evaluated during the preparation of the scope of work.

A draft scope of work will be provided to the NYSDEC for review and comment. Once finalized and provided to the contractor, D&B will coordinate with the contractor to initiate performance of the injection.

Task 3B – Installation of Injection Wells and Groundwater Monitoring Wells (to be performed during Fiscal Year 2011-2012)

As detailed above, the Injection Area is defined as the area between Lennox Avenue, Bedford Avenue, and along South Grand Street. This area has been delineated on Figure 1 as a 300 foot by 200 foot area in the vicinity of groundwater monitoring well OU2-3. In order to address the "highest levels of contamination above 120 feet," the injection depths will be from 90 to 120 feet below ground surface. Based on our experience in performance of pilot studies within the Upper Glacial aquifer, as well as information obtained from contractors experienced with injecting

Lisa Lewis, Contract Manager
Division of Environmental Remediation
New York State Department of Environmental Conservation
March 16, 2011

Page 3

chemical oxidants, the horizontal radius of influence of an injection is anticipated to be less than 20 feet and the vertical influence is anticipated to be up to 40 feet.

At this time, we are not proposing to collect additional groundwater data prior to installation of the proposed groundwater monitoring wells and injection wells. The groundwater monitoring well and injection well locations shown on Figure 1 have been located based on the most recent available groundwater data from March 2010. Note that as shown in the recent and historic groundwater sampling, this is a narrow plume which has been difficult to define. Therefore, the results of the initial groundwater sampling may not yield results that will be comparable to the March 2010 data. As appropriate, adjustments to the chemical oxidation injection will be made upon review of the initial round of groundwater sampling.

D&B proposes to install two monitoring well clusters, each with two wells, along 5th Avenue to evaluate upgradient groundwater contamination in the Upper Glacial aquifer upgradient of the injection area (see Figure 1). One well in each cluster will be installed to a depth of 85 feet with 10 feet of screen and a deeper well will be installed to a depth of 120 feet with 10 feet of well screen. Although provision to collect split spoon samples are not included as part of the installation of these wells, each well will be gamma logged.

Four injection wells will be installed along Lennox Avenue. Each well will be installed to a depth of 95 feet and will have a 5 foot well screen. Similar to the groundwater monitoring wells, split spoon samples will not be collected during installation of the injection wells; however, gamma logging will be performed in each well.

Three downgradient groundwater monitoring well clusters will be installed along Bedford Avenue. Each cluster will have three wells. The proposed depths of the wells are 100 feet, 125 feet and 150 feet. Each well will have a 10 foot well screen. Each well will also be gamma logged to obtain information regarding the geology of the lower Upper Glacial aquifer and upper Magothy aquifer.

In order to monitor the transport of injected material towards the Westbury Water District Well No. 11, one deep groundwater monitoring well (approximately 200 feet deep) will be advanced on Lafayette Avenue. Prior to installation of this well, a soil boring will be advanced and split spoon samples will be collected every 5 feet from 80 feet to 200 feet to evaluate the geology of the upper Magothy aquifer and ensure installation of the monitoring well in a permeable zone. As discussed above, this boring will also be gamma logged.

Lisa Lewis, Contract Manager
Division of Environmental Remediation
New York State Department of Environmental Conservation
March 16, 2011

Page 4

Note that since injection and monitoring wells will only be located within available rights-of-way compounded by the additional ground and underground utilities, the ability to monitor transport of the oxidant may be somewhat limited.

After construction, each injection well and monitoring well will be developed to ensure adequate hydraulic connection to the aquifer. Each well will be developed for a maximum of two hours. Well development water will be containerized, transferred to the Westbury Public Works yard and, once tested, if appropriate, discharged to the Nassau County Sanitary Sewer System. Provision has also been made to survey each of the newly installed wells.

Task 3C – Chemical Oxidation Injection (to be performed during Fiscal Year 2011-2012)

The total volume of oxidant to be injected will be determined as part of the development of the specifications. The volume of oxidant injected into each injection well will be conservative and will be calculated to overcome the estimated soil oxidant demand (based on the treatability study performed in 2004). Although the area to be treated has been defined as a 300 by 200 foot area, it will not be possible to treat this entire area with a single injection along Lennox Avenue. Although it is not anticipated to detect permanganate in the downgradient well clusters, it is anticipated that a reduction in concentrations of volatile organic compounds (VOCs) will be observed.

As noted above, all work will need to be performed within available rights-of-way and therefore, D&B will work with NYSDEC to coordinate with local agencies to obtain access to drilling locations as well as the Village of Westbury Department of Public Works to accommodate the storage of equipment and drill cuttings. The standby contractor will be required to prepare a spill prevention and control plan, work and waste handling plan and health and safety plan, for use by its personnel at the site.

D&B has also proposed to utilize the services of Dr. Dan Bryant from GeoCleanse International to provide subconsulting services for the preparation of the injection specifications. Dr. Bryant has extensive experience in the field of chemical oxidation and has proven to be very valuable to both D&B and NYSDEC particularly with his assistance with the chemical oxidation pilot study performed at the Jimmy's Dry Cleaner site, located in Roosevelt, New York.

Lisa Lewis, Contract Manager
Division of Environmental Remediation
New York State Department of Environmental Conservation
March 16, 2011

Page 5

Task 3D – Pre/Post Injection Monitoring (to be performed during Fiscal Year 2011-2012)

Prior to injection of the chemical oxidant, groundwater samples will be collected from the 14 new groundwater monitoring wells and four injection wells, and analyzed for target compound list (TCL) VOCs by NYSDEC ASP Method OLMO 4.2. Groundwater samples will also be collected from six existing groundwater monitoring wells, OU2-1, OU2-2, OU2-3, OU2-4, OU2-5 and PSW-4D. Groundwater samples will be collected using low flow procedures, and purge water will be contained for discharge to Nassau County sanitary sewer system. Field parameters, including depth to water, pH, ORP, DO, turbidity and temperature, will also be measured at each well at the time of sample collection.

Based on an estimated groundwater flow of 2 feet per day, it is estimated that it will take several months for the oxidant impacted groundwater to migrate to the downgradient clusters. During the injection in the initial injection well, the three remaining injection wells and OU2-3 will be monitored daily for water levels and field parameters, including temperature, DO, turbidity, ORP, conductivity, permanganate level and pH, until permanganate or elevated ORP is detected in a well. Similarly, during the injection at the second injection well, OU2-3 and the two remaining injection wells will be monitored daily for water levels and field parameters.

Approximately 12 weeks and either 16 or 18 weeks after completion of the injection, groundwater samples will be collected from ten downgradient monitoring wells for TCL VOCs by NYSDEC ASP Method OLMO 4.2. Groundwater samples will be collected using low flow procedures, and purge water will be contained for discharge to Nassau County sanitary sewer system. As noted above, field parameters, including water level, pH, ORP, DO, turbidity and temperature, will also be measured at the time of sample collection.

Although it is not anticipated that there will be any impacts to soil vapor as part of the chemical oxidation injection, D&B proposes to monitor the three existing soil vapor monitoring points (SV-7, SV-8 and SV-9) installed and sampled as part of this investigation in 2006. Since these points have not been sampled since 2006, the points will be evaluated to ensure they are suitable for use as part of this investigation. These points will be monitored prior to injection and 24 hours after the completion of the injection at all four injection points. Prior to sample collection, the probes will be purged using a photoionization detector (PID) to evaluate, in real time, whether significant levels of VOCs are present in the soil vapor. Samples will be collected using Summa canisters, at a maximum flow rate of 0.2 liters per minutes, and analyzed for VOCs using USEPA Method TO-15. If necessary, these points will also be monitored 12 weeks after injection, concurrent with the groundwater sampling at that time. During each sampling event, one ambient air sample will also be collected. Duplicate soil vapor samples will not be collected

Lisa Lewis, Contract Manager
Division of Environmental Remediation
New York State Department of Environmental Conservation
March 16, 2011

Page 6

during these events. As a result, it is anticipated that six soil vapor samples and two ambient air samples will be collected and analyzed for VOCs.

Task 3E – Injection Summary Report(to be performed in Fiscal Year 2011-2012)

After completion of the injection program and receipt of the analytical data from all rounds of groundwater and soil vapor/ambient air monitoring, a letter report will be prepared describing the results of the injection. A draft report will be provided to NYSDEC within 4 weeks after receipt of the last round of sampling data. The report will include a description of the injection and monitoring well installation, injection, notation of any deviations from the work plan, interpretation of the data, conclusions and recommendations. As discussed above, draft data from the initial round of groundwater sampling will be submitted to NYSDEC prior to the performance of the injection.

Cost

Please find attached revised Schedule 2.11s in Attachment 1. At this time, Task 1 – Scoping and Task 2 – Pre-Design Investigation have been completed. Task 3 – Pilot Study is the only remaining task currently in this Work Assignment. The current work assignment budget was \$185,167 of which \$182,625 has been expended. This amendment increases the overall work assignment cost to \$435,159. The increase of approximately \$250,000 was added to Task 3 to perform the pilot study. Task 3 is anticipated be completed within fiscal year 2011-2012.

The enclosed costs do not include costs for the installation of injection or monitoring wells nor does the cost estimate include the cost to perform the chemical oxidation injection. The costs only include the level of effort for D&B personnel to provide oversight for the injection and monitoring well installation, sample analysis and chemical oxidation injection. The Schedule 2.11s also include the costs for subcontractors/subconsultants to provide laboratory analysis, surveying and chemical oxidation technical consultant. As mentioned above, Dr. Dan Bryant from Geo-Cleanse International is proposed for the technical consultant for the chemical oxidation pilot study. Dr. Bryant has extensive experience in chemical oxidation and was utilized under the Jimmy's Dry Cleaner Project (Work Assignment No. D004446-4). His hourly rate is within the current acceptable range for Level 1X personnel, for which Dr. Bryant was approved under Work Assignment No. D004446-4. A subcontractor certification has been provided for Geo-Cleanse International Inc. in Attachment 2. A subcontractor certification has also been provided for YEC, Inc. in Attachment 2 and the Cost Review Checklist is provided in Attachment 3. Cost reasonableness for the rental equipment is provided in Attachment 4.

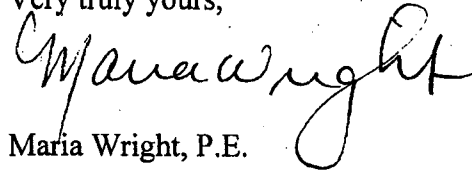
Dvirka and Bartilucci
CONSULTING ENGINEERS

Lisa Lewis, Contract Manager
Division of Environmental Remediation
New York State Department of Environmental Conservation
March 16, 2011

Page 7

Once you have had an opportunity to review the enclosed information, please contact me at
(516) 364-9890, Ext. 3060.

Very truly yours,

A handwritten signature in cursive script, appearing to read "Maria Wright".

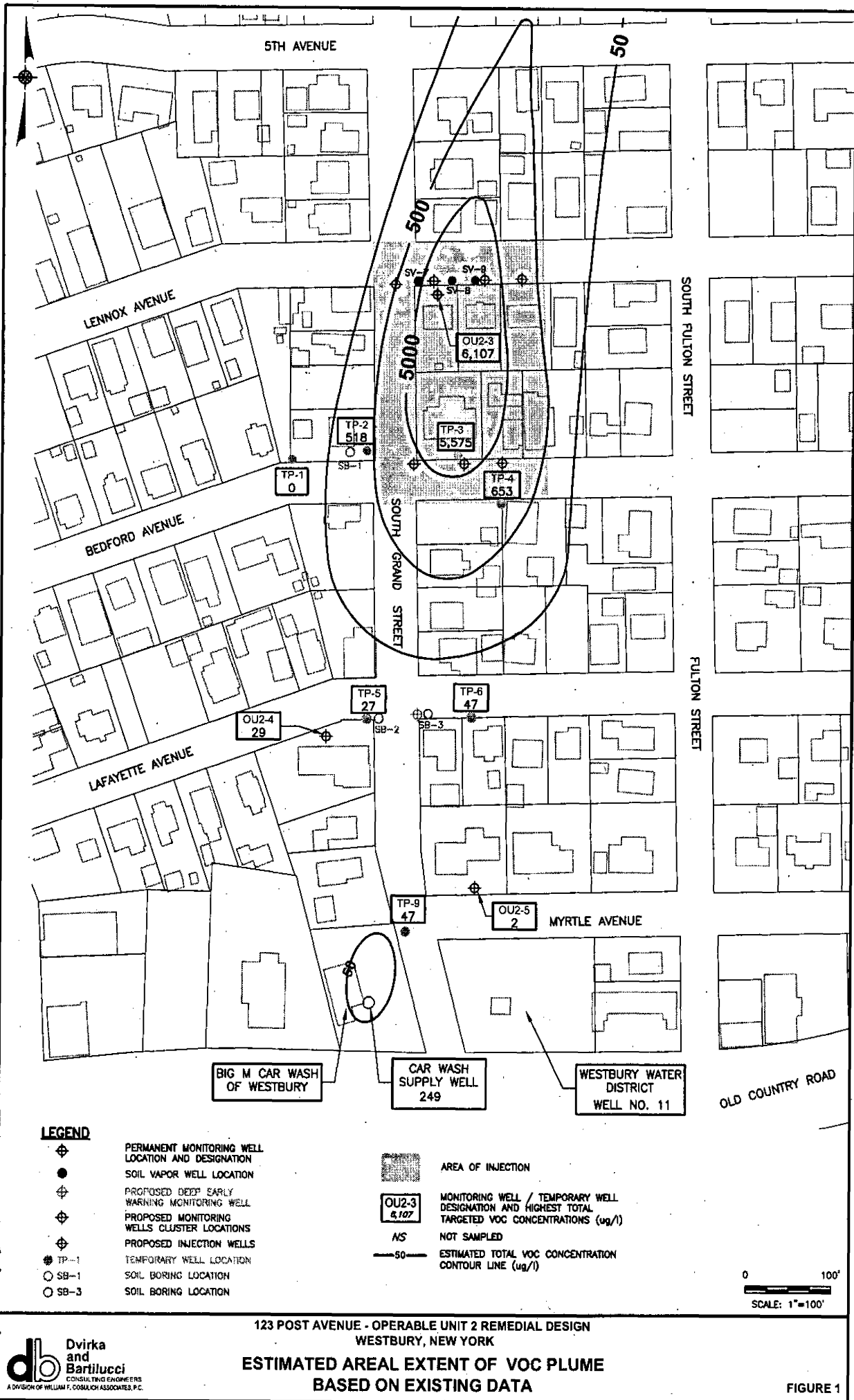
Maria Wright, P.E.

MDW(t)/j

cc: N. Putnam, NYSDEC

R. Walka, D&B

◆2599MDW031411-LL.doc(R02)



ATTACHMENT 1

SCHEDULE 2.11s

Schedule 2.11 (a)

Summary of Work Assignment Price
123 Post Avenue Remedial Design

Work Assignment Number D004446-21A.1

- | | | |
|----|--|-------------|
| 1. | Direct Salary Costs (Schedules 2.10 (a) and 2.11(b)) | \$107,738 ✓ |
| 2. | Indirect Costs (Schedule 2.10 (g)) | \$162,684 ✓ |
| 3. | Direct Non-Salary Costs (Schedules 2.11 (c) and (d)) | \$36,829 ✓ |

Subcontract Costs

Cost-Plus-Fixed-Fee Subcontracts (Schedules 2.11(e))

<u>Name of Subcontractor</u>	<u>Services To Be Performed</u>	<u>Subcontract Price</u>
YEC, Inc.	Surveying	\$5,536
GeoCleanse International	Technical Consultant	\$6,086

- | | | |
|----|--|------------------|
| 4. | Total Cost-Plus-Fixed-Fee Subcontracts | <hr/> \$11,622 ✓ |
|----|--|------------------|

Unit Price Subcontracts (Schedules 2.11(f))

<u>Name of Subcontractor</u>	<u>Services To Be Performed</u>	<u>Subcontract Price</u>
Zebra Environmental Corp.	Direct Push Services	\$63,050
Mitkem Corporation (MBE)	Sample Analysis	\$13,205
Con-Test Analytical Laboratory	Soil Vapor Analysis	\$4,875

- | | | |
|----|---|------------------|
| 5. | Total Unit Price Subcontracts | <hr/> \$81,130 ✓ |
| 6. | Subcontract Management Fee | \$4,057 ✓ |
| 7. | Total Subcontract Costs (lines 4 + 5 + 6) | \$96,809 ✓ |
| 8. | Fixed Fee (Schedule 2.10 (h)) | \$31,099 ✓ |
| 9. | Total Work Assignment Price (lines 1 + 2 + 3 + 7 + 8) | \$435,159 ✓ |

SCHEDULE 2.11 (b)
SUMMARY
123 Post Avenue Remedial Design
WORK ASSIGNMENT NUMBER D004446-21A.1

Average NSPE Wage Rates	IX	VIII	VII	VI	V	IV	III	II	I	TOTAL HOURS
as of January 1, 2006	\$61.60	\$54.95	\$51.32	\$45.44	\$36.10	\$33.51	\$29.09	\$23.13	\$18.10	
as of January 1, 2007	\$63.45	\$56.60	\$52.86	\$46.80	\$37.18	\$34.52	\$29.96	\$23.82	\$18.64	
as of January 1, 2008	\$65.91	\$58.80	\$54.91	\$48.62	\$38.63	\$35.86	\$31.13	\$24.75	\$19.37	
as of January 1, 2009	\$66.53	\$59.35	\$55.43	\$49.08	\$38.99	\$36.19	\$31.42	\$24.98	\$19.55	
as of January 1, 2010	\$68.22	\$60.85	\$56.83	\$50.32	\$39.98	\$37.11	\$32.21	\$25.61	\$20.04	
as of January 1, 2011	\$69.20	\$61.73	\$57.65	\$51.05	\$40.55	\$37.65	\$32.68	\$25.98	\$20.33	
Task 1 - Pilot Test Program	6	0	0	62	46	50	212	30	0	406
Task 2 - Remedial Design	2	8	0	0	348	60	108	64	0	590
Task 3 - Pre-Award Services	10	0	0	248	1030	0	414	146	0	1848
Total 2006 Hours	4	0	0	50	24	10	80	22	0	190
Total 2007 Hours	2	0	0	12	22	40	132	8	0	216
Total 2008 Hours	0	0	0	0	0	0	0	0	0	0
Total 2009 Hours	2	2	0	0	68	0	84	52	0	208
Total 2010 Hours	0	6	0	0	280	60	24	12	0	382
Total 2011 Hours	10	0	0	248	1030	0	414	146	0	1,848
TOTAL	18	8	0	310	1424	110	734	240	0	2844
Total Direct Labor Cost	\$1,198	\$484	\$0	\$15,494	\$57,297	\$3,943	\$23,224	\$6,099	\$0	\$107,738

SCHEDULE 2.11 (b)-1
SUMMARY
123 Post Avenue Remedial Design
WORK ASSIGNMENT NUMBER D004446-21A.1



Average NSPE Wage Rates	IX	VIII	VII	VI	V	IV	III	II	I	TOTAL HOURS
as of January 1, 2006	\$61.60	\$54.95	\$51.32	\$45.44	\$36.10	\$33.51	\$29.09	\$23.13	\$18.10	
as of January 1, 2007	\$63.45	\$56.60	\$52.86	\$46.80	\$37.18	\$34.52	\$29.96	\$23.82	\$18.64	
as of January 1, 2008	\$65.91	\$58.80	\$54.91	\$48.62	\$38.63	\$35.86	\$31.13	\$24.75	\$19.37	
as of January 1, 2009	\$66.53	\$59.35	\$55.43	\$49.08	\$38.99	\$36.19	\$31.42	\$24.98	\$19.55	
as of January 1, 2010	\$68.22	\$60.85	\$56.83	\$50.32	\$39.98	\$37.11	\$32.21	\$25.61	\$20.04	
as of January 1, 2011	\$69.20	\$61.73	\$57.65	\$51.05	\$40.55	\$37.65	\$32.68	\$25.98	\$20.33	
Task 1	0.5	0	0	8	0	0	0	12	0	20.5
Task 2	0.5	0	0	0	0	0	0	19	0	19.5
Task 3	0.5	0	0	0	0	0	0	10	0	10.5
Total 2006 Hours	0.5	0	0	8	0	0	0	12	0	20.5
Total 2007 Hours	0.5	0	0	0	0	0	0	8	0	8.5
Total 2008 Hours	0	0	0	0	0	0	0	0	0	0
Total 2009 Hours	0	0	0	0	0	0	0	0	0	0
Total 2010 Hours	0	0	0	0	0	0	0	11	0	11
Total 2011 Hours	0.5	0	0	0	0	0	0	10	0	10.5
TOTAL	1.5	0	0	8	0	0	0	41	0	50.5
Total Direct Labor Cost	\$98	\$0	\$0	\$364	\$0	\$0	\$0	\$1,017	\$0	\$1,479



**BREAKDOWN OF ADMINISTRATIVE
LOE HOURS ON SCHEDULE 2.11(b-1)**

ADMIN ACTIVITY	WORK PLAN DEVELOPMENT															REVIEW WORK ASSIGNMENT (WA) PROGRESS														
	Conflict of Interest Checks						Prepare 2.11 Schedules									Conduct Progress Reviews					Prepare Monthly Report & Update Schedules									
NSPE	IX	VIII	VII	VI	V	IV	VIII	VII	VI	V	IV	III	II	I	VIII	VII	VI	V	IV	III	VIII	VII	VI	V	IV	III	II	I		
TASK 1									6														2							
TASK 2																							0							
TASK 3																							0							
TOTAL	0	0	0	0	0	0	0	0	6	0	0	0	0	0	0	0	0	0	0	0	0	0	2	0	0	0	0	0		

ADMIN ACTIVITY	REVIEW WORK ASSIGNMENT (WA) PROGRESS														CAP PREPARATION											
	MBE/WBE Activities								Program Management						Prepare Monthly Cost Control Report & CAP						Oversee CAP					
NSPE	VIII	VII	VI	V	IV	III	II	I	IX	VIII	VII	VI	V	IV	VIII	VII	VI	V	IV	III	II	I	IX	VIII	VII	VI
TASK 1									0.5												12					
TASK 2									0.5												19					
TASK 3									0.5												10					
TOTAL	0	0	0	0	0	0	0	0	1.5	0	0	0	0	0	0	0	0	0	0	0	41	0	0.0	0	0	

ADMIN ACTIVITY	MISCELLANEOUS																								
	Update NSPE List								Equipment Use and Inventory				Word Proc. and Report Preparation				Total Adm. LOE (hrs)								
NSPE	VIII	VII	VI	V	IV	III	II	I	IV	III	II	I	IV	III	II	I	IX	VIII	VII	VI	V	IV	III	II	I
TASK 1																	0.5			8				12	
TASK 2																	0.5			0				19	
TASK 3																	0.5			0				10	
TOTAL	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1.5	0.0	0.0	8.0	0.0	0.0	0.0	41.0	0.0

SCHEDULE 2.11 (c)
DIRECT NON-SALARY COSTS
SUMMARY
 123 Post Avenue Remedial Design
 Work Assignment No. D004446-21A.1

ITEM	MAXIMUM REIMBURSEMENT RATE	UNIT	ESTIMATED NUMBER OF UNITS	TOTAL ESTIMATED COSTS
IN-HOUSE				
Outside Services*	\$200.00	set	0	\$0.00
Express Mail	\$25.00	package	5	\$125.00
Sample Shipping	\$50.00	shipment	23	\$1,150.00
Level D Safety Equipment	\$16.62	/person/day	115	\$1,911.30
TRAVEL				
Transportation (Personal Car)	\$0.445	mile	334	\$148.63
Transportation (Personal Car)	\$0.500	mile	488	\$244.00
Van Rental	\$100.00	day	8	\$800.00
Van Rental	\$500.00	week	15	\$7,500.00
Gas	\$50.00	day	8	\$400.00
Gas	\$50.00	week	15	\$750.00
TOTAL DIRECT NON-SALARY COSTS				\$13,028.93

* Includes photo finishing, slides and any other costs not associated with in-house capabilities.

SCHEDULE 2.11 (d) 1

**EQUIPMENT PURCHASED UNDER THE CONTRACT
SUMMARY**

123 Post Avenue Remedial Design
Work Assignment No. D004446-21A.1

ITEM	ESTIMATED PURCHASE PRICE	O&M RATE (\$/per month)	TERM OF USAGE (MONTHS)	ESTIMATED USAGE COST (COL. 2 + [3X4])
			TOTAL	\$0.00

Schedule 2.11 (d) 2
Summary

Maximum Reimbursement Rates for Consultant/Subconsultant - Owned Equipment
123 Post Avenue Remedial Design
Work Assignment No. D004446-21A.1

ITEM	PURCHASE PRICE X 85%	USAGE RATE (\$/day)	CAPITAL RECOVERY RATE (\$/Unit of Time)	O & M RATE (\$/Unit of Time)	ESTIMATED USAGE (days)	ESTIMATED USAGE COST (Col. 3x6)
						\$0
					TOTAL	\$0

Notes:

Usage Rate = Capital Recovery Rate + O&M rate

The maximum usage rate for an item of equipment reverts to the O&M rate when the total usage reimbursement exceed 85% of the purchase price.

SCHEDULE 2.11 (d) 3
EQUIPMENT
VENDOR RENTED
SUMMARY
 123 Post Avenue Remedial Design
 Work Assignment No. D004446-21A.1

ITEM	MAXIMUM REIMBURSEMENT RATE	TIME PERIOD	ESTIMATED USAGE (period of time)	ESTIMATED USAGE COST (Col. 2 X 3)
Century OVA 128	\$125.00	day	0	\$0.00
Photovac Microtip	\$125.00	day	0	\$0.00
MiniRAE 2000 PID Meter	\$200.00	week	15	\$3,000.00
MIE Miniram Digital Dust Indicator	\$190.00	week	15	\$2,850.00
Horiba Water Quality Meter	\$100.00	day	16	\$1,600.00
Horiba Water Quality Meter	\$300.00	week	15	\$4,500.00
Solinst Water Level Indicator	\$25.00	day	0	\$0.00
Solinst Water Level Indicator	\$300.00	week	15	\$4,500.00
Generator	\$60.00	day	0	\$0.00
Generator	\$135.00	week	10	\$1,350.00
Peristaltic Pump	\$50.00	day	0	\$0.00
Grundfos Pump	\$290.00	week	10	\$2,900.00
GoMac Helium Meter	\$75.00	day	6	\$450.00
			Total	\$21,150.00

SCHEDULE 2.11 (d) 4
SUMMARY
EXPENDABLE SUPPLIES
 123 Post Avenue Remedial Design
 Work Assignment No. D004446-21A.1

ITEM	ESTIMATED QUANTITY	UNITS	UNIT COST	TOTAL BUDGETED COST (COL. 2 X 3)
Polyethylene tubing	8200	feet	\$0.25	\$2,050.00
Disposable bailers	0.0	case of 24	\$200.00	\$0.00
			TOTAL	\$2,050.00



SCHEDULE 2.11 (d) 5
CONSUMABLE SUPPLIES
SUMMARY
 123 Post Avenue Remedial Design
 Work Assignment No. D004446-21A.1

ITEM	ESTIMATED QUANTITY	UNIT COST	TOTAL BUDGETED COST (COL. 2 X 3)
Miscellaneous Supplies	6	\$100.00	\$600.00
		TOTAL	\$600.00



Schedule 2.11 (e)
Cost Plus Fixed-Fee Subcontracts
123 Post Avenue OU2
Work Assignment No. D004446-21A.1

- cost reasonable
- used on D004446-4
for same work
and rates

NAME OF SUBCONTRACTOR
GeoCleanse International

SERVICES TO BE PERFORMED
Peer Review of Selected Technical
Documents

SUBCONTRACT PRICE
\$6,086.03 ✓

A. Direct Salary Costs

<u>Professional Responsibility Level</u>	<u>Labor Classification</u>	<u>Average Reimburse ment Rate (\$/Hr.)</u>	<u>Hours</u>	<u>Cost</u>
Principal	IX	60.97	40	\$2,438.80

Total Direct Salary Cost **\$2,438.80**

B. Indirect Salary Costs - 117% of Direct Salary Cost **\$2,853.40**

C. Maximum Reimbursement Rates for Direct Non-Salary Costs **\$0.00**

D. Fixed Fee (15% of Direct and Indirect Salary Costs) **\$793.83**

Schedule 2.11 (e)
Cost Plus Fixed-Fee Subcontracts

123 Post Avenue

March 14, 2011

NAME OF SUBCONTRACTOR
YEC, INC.

SERVICES TO BE PERFORMED
Surveying & CAD

SUBCONTRACT PRICE
\$5,536.21 ✓

A. Direct Salary Costs

Professional Responsibility Level	Labor Classification	Average Reimbursement Rate (\$/Hr.)	Maximum Reimbursement Rate (\$/Hr.)	Estimated Number of Hours	Total Estimated Direct Salary Cost (\$)
Principal	VIII	2010 71.30	2010 77.02	1	71.30
Senior Geologist/Scientist V / Engineer/		2010 47.14	2010 51.85	10	471.43
Staff Geologist/Scientist/Engineer IV		2010 40.95	2010 45.08	2	81.91
Staff Geologist/Scientist/Engineer III /CAD Operator		2010 35.58	2010 39.46	20	711.52
Senior Technician/Staff II Engineer/Scientist		2010 26.30	2010 29.48	20	525.92
Technician/Drafts person I		2010 23.82	2010 26.71	0	0.00
Total Direct Salary Costs:					1,862.08

B. Indirect Costs - 117% of direct salary cost

Indirect Costs: 2,178.63

C. Maximum Reimbursement Rates for Direct Non-Salary Costs:

Item	Rate	Estimated No. of Units	
Mileage	0.51 /mi.	240 miles	122.40
Tolls	18.50 /day	2 trips	37.00
Survey Equipment	65.00 /day	2 days	130.00
CAD Equipment	15.00 /hour	0 hours	0.00
GPS Tie-In (NYS Plane Coordinates)			600.00
Total Direct Non Salary Costs:			889.40

D. Fixed Fee (15% of Total Direct and Indirect Salary Costs)

Fixed Fee: 606.11

Assumptions:

Deliverable to be Excel spreadsheet and comma delimited text file
Datum will be NAD 1983 and NAVD 1988

- on standby

**SCHEDULE 2.11 (f) 1
UNIT PRICE SUBCONTRACTS
SUMMARY
123 Post Avenue Remedial Design
Work Assignment No. D004446-21A.1**

*- cont'd sub
- decreased cost*

<u>NAME OF SUBCONTRACTOR</u>	<u>SERVICES TO BE PERFORMED</u>	<u>SUBCONTRACT PRICE</u>	<u>MANAGEMENT FEE</u>
Zebra Environmental Corporation	Direct Push Services	\$63,050	\$3,153

<u>Item</u>	<u>Maximum Reimbursement Rate</u>	<u>Estimated No. of Units</u>	<u>Total Estimated Costs</u>
Groundwater Probes			
1a Mobilization and demobilization, including site set-up, breakdown, clean-up, repair and site restoration.	\$400 Lump sum	1 Event	\$400
b Non-mobile decontamination pad	\$105 Lump sum	0 Pad	\$0
2 Well set-up	\$10 Per location	0 Locations	\$0
3 Geoprobe System			
Truck/Van/ATV-mounted unit	\$1,150 Per 8-hour day	2 Days	\$2,300
Second crew member	\$195 Per 8-hour day	0 Days	\$0
4 Overtime charge for on-site work	\$75 Per person hour	0 Person hours	\$0
5 Soil vapor probe installation	\$5 Per foot	0 Feet	\$0
6 Groundwater sampling	\$9 Per sample	0 Samples	\$0
7 Flush-mounted manholes	\$55 Per manhole	0 Manholes	\$0
8 Portland cement	\$16 Per bag	0 Bags	\$0
9 Bentonite powder	\$35 Per bag	0 Bags	\$0
10 Asphalt patch	\$8 Per bag	0 Bags	\$0
11 Standby time	\$75 Per hour	0 Hours	\$0
Deep Groundwater/Soil Investigation			
1a Mobilization and demobilization, including site set-up, breakdown, clean-up, repair and site restoration. Non-mobile decontamination pad	\$2,095 Lump sum	1 Event	\$2,095
2 Geoprobe System			
8040	\$3,200 Per 8-hour day	16 Days	\$51,200
per diem	\$240 Per day	16 Days	\$3,840
3 Overtime charge for on-site work	\$75 Per person hour	0 Person hours	\$0
4 Groundwater sampling	\$25 Per sample	50 Samples	\$1,250
5 Soil Sampling	\$30 Per sample	25 Samples	\$750
6 Pump rental	\$295 Per week	3 Weeks	\$885
Drums	\$55 Per drum	6 Drums	\$330

**SUBTOTAL
SUBCONTRACT MANAGEMENT FEE
TOTAL**

**\$63,050
\$3,153
\$66,203**



**SCHEDULE 2.11 (f) 2
UNIT PRICE SUBCONTRACTS
SUMMARY
123 Post Avenue Remedial Design
Work Assignment No. D004446-21A.1**

*- Cont'd sub
- on standby*

NAME OF SUBCONTRACTOR	SERVICES TO BE PERFORMED	SUBCONTRACT PRICE	MANAGEMENT FEE
Mithkem Corporation	Sample Analysis	\$13,205	\$660

<u>Item</u>	<u>Method</u>	<u>Maximum Reimbursement Rate</u>	<u>Estimated Units</u>	<u>Total Estimated Cost</u>
<u>Groundwater</u>				
VOCs (4-week turnaround time)	EPA SOW OLM04.2 (6/00 ASP)	\$74.00 per sample	54	\$3,996.00
Target Analyte List metals	EPA SOW ILM04.0 (6/00 ASP)	\$68.00 per sample	5	\$340.00
Chloride		\$15.00 per sample	5	\$75.00
VOCs (24-hour turnaround time)	EPA SOW OLM04.2 (6/00 ASP)	\$148.00 per sample	21	\$3,108.00
<u>Soil Vapor/Ambient Air</u>				
VOCs	USEPA Method TO-15	\$270.00 per sample	0	\$0.00
<u>QA/QC Samples</u>				
<u>Groundwater</u>				
Matrix Spike/Matrix Spike Duplicate/Matrix Spike Blank				
VOCs (4-week turnaround time)	EPA SOW OLM04.2 (6/00 ASP)	\$74.00 per sample	6	\$444.00
Target Analyte List metals	EPA SOW ILM04.0 (6/00 ASP)	\$68.00 per sample	2	\$136.00
Trip Blank				
VOCs (4-week turnaround time)	EPA SOW OLM04.2 (6/00 ASP)	\$74.00 per sample	12	\$888.00
<u>Soil Vapor/Ambient Air</u>				
Blind Duplicate				
VOCs	USEPA Method TO-15	\$270.00 per sample	0	\$0.00

SUBTOTAL INITIAL SAMPLING \$8,987.00
SUBTOTAL SUBCONTRACT MANAGEMENT FEE \$449 ✓

<u>Groundwater</u>				
VOCs (4-week turnaround time)	EPA SOW OLM04.2 (6/00 ASP)	\$74.00 per sample	46	\$3,404.00
Target Analyte List metals	EPA SOW ILM04.0 (6/00 ASP)	\$68.00 per sample	0	\$0.00
Chloride		\$15.00 per sample	0	\$0.00
VOCs (24-hour turnaround time)	EPA SOW OLM04.2 (6/00 ASP)	\$148.00 per sample	0	\$0.00
<u>Soil Vapor/Ambient Air</u>				
VOCs	USEPA Method TO-15	\$270.00 per sample	0	\$0.00
<u>QA/QC Samples</u>				
<u>Groundwater</u>				
Matrix Spike/Matrix Spike Duplicate/Matrix Spike Blank				
VOCs (4-week turnaround time)	EPA SOW OLM04.2 (6/00 ASP)	\$74.00 per sample	3	\$222.00
Target Analyte List metals	EPA SOW ILM04.0 (6/00 ASP)	\$68.00 per sample	0	\$0.00
Trip Blank				
VOCs (4-week turnaround time)	EPA SOW OLM04.2 (6/00 ASP)	\$74.00 per sample	8	\$592.00
<u>Soil Vapor/Ambient Air</u>				
Blind Duplicate				
VOCs	USEPA Method TO-15	\$270.00 per sample	0	\$0.00

SUBTOTAL SECOND PHASE \$4,218.00
SUBTOTAL SUBCONTRACT MANAGEMENT FEE \$212.00 ✓

**SCHEDULE 2.11 (f) 3
UNIT PRICE SUBCONTRACTS
SUMMARY
123 Post Avenue Remedial Design
Work Assignment No. D004446-21A.1**

*- Cont'd sub
- on standby*

<u>NAME OF SUBCONTRACTOR</u>	<u>SERVICES TO BE PERFORMED</u>	<u>SUBCONTRACT PRICE</u>	<u>MANAGEMENT FEE</u>
Con-Test Analytical	Soil Vapor Sampling	\$4,875	\$244

<u>Item</u>	<u>Maximum Reimbursement Rate</u>	<u>Estimated No. of Units</u>	<u>Total Estimated Costs</u>
<u>Soil Vapor/Ambient Air</u> VOCs	USEPA Method TO-15 \$195.00 per sample	13	\$2,535.00
	SUBTOTAL		\$2,535
	SUBTOTAL SUBCONTRACT MANAGEMENT FEE		\$127 ✓
<u>Soil Vapor/Ambient Air</u> VOCs	USEPA Method TO-15 \$195.00 per sample	12	\$2,340.00
	SUBTOTAL		\$2,340
	SUBTOTAL SUBCONTRACT MANAGEMENT FEE		\$117 ✓

Project Name: 123 Post Avenue Remedial Design
 Work Assignment No.: D004446-21A.1
 Task No./Name: All Tasks
 Complete: 0.00%

SCHEDULE 2.11 (g)
 SUMMARY

Page 1 of 5
 Date Prepared:
 Billing Period:
 Invoice No.:



MONTHLY COST CONTROL REPORT SUMMARY OF FISCAL INFORMATION								
Expenditure Category	A Costs Claimed This Period	B Paid To Date	C Total Disallowed To Date	D Total Costs Incurred To Date (A+B+B1)	E Estimated Costs To Completion	F Total Work Assignment Price (A+B+E)	G Approved Budget	H Estimated Under/(Over) (G-F)
1. Direct Salary Costs	0.00	0.00	0.00	0.00	0.00	0.00	\$107,738	0.00
2. Indirect	0.00	0.00	0.00	0.00	0.00	0.00	\$162,684	0.00
3. Subtotal Direct Salary Costs and Indirect Costs	0.00	0.00	0.00	0.00	0.00	0.00	\$270,422	0.00
4. Travel	0.00	0.00	0.00	0.00	0.00	0.00	\$9,843	0.00
5. Other Non-Salary Costs	0.00	0.00	0.00	0.00	0.00	0.00	\$26,986	0.00
6. Subtotal Direct Non-Salary Costs	0.00	0.00	0.00	0.00	0.00	0.00	\$36,829	0.00
7. Subcontractors	0.00	0.00	0.00	0.00	0.00	0.00	\$92,752	0.00
7a. Management Fee	0.00	0.00	0.00	0.00	0.00	0.00	\$4,057	0.00
8. Total Work Assignment Cost	0.00	0.00	0.00	0.00	0.00	0.00	\$404,059	0.00
9. Fixed Fee	0.00	0.00	0.00	0.00	0.00	0.00	\$31,099	0.00
10. Total Work Assignment Price	0.00	0.00	0.00	0.00	0.00	0.00	\$435,159	0.00

Project Manager (Engineer) _____

Date _____

Project Name: 123 Post Avenue Remedial Design
 Work Assignment No.: D004446-21A.1
 Task No./Name: 1/Scoping
 Complete: 0.00%

SCHEDULE 2.11 (g)

Page 2 of 5
 Date Prepared:
 Billing Period:
 Invoice No.:

MONTHLY COST CONTROL REPORT SUMMARY OF FISCAL INFORMATION								
Expenditure Category	A Costs Claimed This Period	B Paid To Date	C Total Disallowed To Date	D Total Costs Incurred To Date (A+B+B1)	E Estimated Costs To Completion	F Total Work Assignment Price (A+B+E)	G Approved Budget	H Estimated Under/(Over) (G-F)
1. Direct Salary Costs	0.00	0.00	0.00	0.00	0.00	0.00	\$13,589	0.00
2. Indirect	0.00	0.00	0.00	0.00	0.00	0.00	\$20,519	0.00
3. Subtotal Direct Salary Costs and Indirect Costs	0.00	0.00	0.00	0.00	0.00	0.00	\$34,107	0.00
4. Travel	0.00	0.00	0.00	0.00	0.00	0.00	\$1,349	0.00
5. Other Non-Salary Costs	0.00	0.00	0.00	0.00	0.00	0.00	\$2,450	0.00
6. Subtotal Direct Non-Salary Costs	0.00	0.00	0.00	0.00	0.00	0.00	\$3,799	0.00
7. Subcontractors	0.00	0.00	0.00	0.00	0.00	0.00	\$74,572	0.00
7a. Management Fee	0.00	0.00	0.00	0.00	0.00	0.00	\$3,729	0.00
8. Total Work Assignment Cost	0.00	0.00	0.00	0.00	0.00	0.00	\$116,206	0.00
9. Fixed Fee	0.00	0.00	0.00	0.00	0.00	0.00	\$3,922	0.00
10. Total Work Assignment Price	0.00	0.00	0.00	0.00	0.00	0.00	\$120,129	0.00

Project Manager (Engineer) _____

Date _____

Project Name: 123 Post Avenue Remedial Design
 Work Assignment No.: D004446-21A.1
 Task No./Name: 2/Pre-Design Investigation
 Complete: 0.00%

SCHEDULE 2.11 (g)

Page 3 of 5
 Date Prepared:
 Billing Period:
 Invoice No.:

MONTHLY COST CONTROL REPORT
 SUMMARY OF FISCAL INFORMATION

Expenditure Category	A Costs Claimed This Period	B Paid To Date	C Total Disallowed To Date	D Total Costs Incurred To Date (A+B+B1)	E Estimated Costs To Completion	F Total Work Assignment Price (A+B+E)	G Approved Budget	H Estimated Under/(Over) (G-F)
1. Direct Salary Costs	0.00	0.00	0.00	0.00	0.00	0.00	\$21,708	0.00
2. Indirect	0.00	0.00	0.00	0.00	0.00	0.00	\$32,779	0.00
3. Subtotal Direct Salary Costs and Indirect Costs	0.00	0.00	0.00	0.00	0.00	0.00	\$54,487	0.00
4. Travel	0.00	0.00	0.00	0.00	0.00	0.00	\$204	0.00
5. Other Non-Salary Costs	0.00	0.00	0.00	0.00	0.00	0.00	\$2,024	0.00
6. Subtotal Direct Non-Salary Costs	0.00	0.00	0.00	0.00	0.00	0.00	\$2,228	0.00
7. Subcontractors	0.00	0.00	0.00	0.00	0.00	0.00	\$0	0.00
7a. Management Fee	0.00	0.00	0.00	0.00	0.00	0.00	\$0	0.00
8. Total Work Assignment Cost	0.00	0.00	0.00	0.00	0.00	0.00	\$56,715	0.00
9. Fixed Fee	0.00	0.00	0.00	0.00	0.00	0.00	\$6,266	0.00
10. Total Work Assignment Price	0.00	0.00	0.00	0.00	0.00	0.00	\$62,980	0.00

Project Manager (Engineer) _____

Date _____

Project Name: 123 Post Avenue Remedial Design
 Work Assignment No.: D004446-21A.1
 Task No./Name: 3/Pilot Study
 Complete: 0.00%

SCHEDULE 2.11 (g)

Page 4 of 5
 Date Prepared:
 Billing Period:
 Invoice No.:

MONTHLY COST CONTROL REPORT
 SUMMARY OF FISCAL INFORMATION

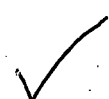
Expenditure Category	A Costs Claimed This Period	B Paid To Date	C Total Disallowed To Date	D Total Costs Incurred To Date (A+B+C)	E Estimated Costs To Completion	F Total Work Assignment Price (A+B+E)	G Approved Budget	H Estimated Under/(Over) (G-F)
1. Direct Salary Costs	0.00	0.00	0.00	0.00	0.00	0.00	\$72,442	0.00
2. Indirect	0.00	0.00	0.00	0.00	0.00	0.00	\$109,387	0.00
3. Subtotal Direct Salary Costs and Indirect Costs	0.00	0.00	0.00	0.00	0.00	0.00	\$181,828	0.00
4. Travel	0.00	0.00	0.00	0.00	0.00	0.00	\$8,290	0.00
5. Other Non-Salary Costs	0.00	0.00	0.00	0.00	0.00	0.00	\$22,512	0.00
6. Subtotal Direct Non-Salary Costs	0.00	0.00	0.00	0.00	0.00	0.00	\$30,802	0.00
7. Subcontractors	0.00	0.00	0.00	0.00	0.00	0.00	\$18,180	0.00
7a. Management Fee	0.00	0.00	0.00	0.00	0.00	0.00	\$328	0.00
8. Total Work Assignment Cost	0.00	0.00	0.00	0.00	0.00	0.00	\$231,139	0.00
9. Fixed Fee	0.00	0.00	0.00	0.00	0.00	0.00	\$20,910	0.00
10. Total Work Assignment Price	0.00	0.00	0.00	0.00	0.00	0.00	\$252,049	0.00

Project Manager (Engineer) _____

Date _____

Project Name: 123 Post Avenue Remedial Design
Work Assignment No.: D004446-21A.1

SCHEDULE 2.11 (g) SUPPLEMENTAL
MONTHLY COST CONTROL REPORT
SUBCONTRACTS

Page 5 of 5
Date Prepared:
Billing Period:
Invoice No.: 

<u>Subcontract Name</u>	<u>Subcontract Costs Claimed This Application Incl. Resubmittals</u>	<u>Subcontract Costs Approved for Payment on Previous Application</u>	<u>Total Subcontract costs to Date (A plus B)</u>	<u>Subcontract Approved Budget</u>	<u>Management Fee Budget</u>	<u>Management Fee Paid</u>	<u>Total Costs To Date</u>
1. Zebra Environmental Corp.	\$0.00	\$0.00	\$0.00	\$63,050	\$3,153		
2. Mitkem Corporation	\$0.00	\$0.00	\$0.00	\$13,205	\$660		
3. Con-Test Analytical Laboratory	\$0.00	\$0.00	\$0.00	\$4,875	\$244		
4. Geo-Cleanse International	\$0.00	\$0.00	\$0.00	\$6,086	\$0		
5. YEC, Inc.	\$0.00	\$0.00	\$0.00	\$5,536	\$0		
Total				\$92,752	\$4,057		

Schedule 2.11 (h)

Project Name: 123 Post Avenue Remedial Design
Work Assignment No.: D004446-21A.1

Date Prepared:
Billing Period
Invoice No.



Monthly Cost Control Report
Summary of Labor Hours
Expended to Date/Estimated To Completion

NSPE Labor Classification	IX EXP/EST	VIII EXP/EST	VII EXP/EST	VI EXP/EST	V EXP/EST	IV EXP/EST	III EXP/EST	I & II EXP/EST	TOTAL NUMBER OF DIRECT LABOR HOURS EXP/EST
Task 1	0/ 6	0/ 0	0/ 0	0/ 62	0/ 46	0/ 50	0/ 212	0/ 30	0/ 406
Task 2	0/ 2	0/ 8	0/ 0	0/ 0	0/ 348	0/ 60	0/ 108	0/ 64	0/ 590
Task 3	0/ 10	0/ 0	0/ 0	0/ 248	0/ 1030	0/ 0	0/ 414	0/ 146	0/ 1,848
Total 2006 Hours	0/ 4	0/ 0	0/ 0	0/ 50	0/ 24	0/ 10	0/ 80	0/ 22	0/ 190
Total 2007 Hours	0/ 2	0/ 0	0/ 0	0/ 12	0/ 22	0/ 40	0/ 132	0/ 8	0/ 216
Total 2008 Hours	0/ 0	0/ 0	0/ 0	0/ 0	0/ 0	0/ 0	0/ 0	0/ 0	0/ 0
Total 2009 Hours	0/ 2	0/ 2	0/ 0	0/ 0	0/ 68	0/ 0	0/ 84	0/ 52	0/ 208
Total 2010 Hours	0/ 0	0/ 6	0/ 0	0/ 0	0/ 280	0/ 60	0/ 24	0/ 12	0/ 382
Total 2011 Hours	0/ 10	0/ 0	0/ 0	0/ 248	0/ 1030	0/ 0	0/ 414	0/ 146	0/ 1,848
TOTAL HOURS	0/ 18	0/ 8	0/ 0	0/ 310	0/ 1424	0/ 110	0/ 734	0/ 240	0/ 3,256

ATTACHMENT 2

SUBCONTRACTOR CERTIFICATION

Subcontract Solicitation Record and Certification for Standby Engineering Contracts

NEW YORK STATE DEPARTMENT OF ENVIRONMENTAL CONSERVATION
Division of Environmental Remediation

Site/Spill Name 123 Post Avenue Site – OU2

Site/Spill Number 1-30-088 Contract/WA # D004446-21A.1

NOTE: Standby Contractor must obtain Contract Manager approval prior to award of subcontract.

Check the appropriate box and complete the chart below:

- ☐ Standby cost-plus-fixed-fee subconsultant selected on rotational basis.
- ☐ Standby laboratory or data validator selected on rotational basis. If the work includes site-specific or other items which are not listed in the standby contract, obtain and attach complete quotes from all standby subcontractors. (Declinations to bid must be explained in the attached back-up.)
- ☐ Standby driller selected as lowest quote: Obtain and attach complete quotes from all standby drillers, including mob/demob costs and any site-specific items. (Declinations to bid must be explained in the attached back-up.)

For other unit-price or lump-sum subcontracting work, obtain the necessary number of quotes and complete the chart below:

- ☐ Total estimated costs are less than \$10,000; three responsive quotes must be obtained (verbal is allowed).
- ☐ Total estimated costs range from \$10,000 to \$20,000; three written responsive quotes must be obtained and attached.
- ☐ Total estimated costs are over \$20,000; five written responsive quotes must be obtained and attached.

Note: If unable to obtain a sufficient number of quotes, obtain and attach a minimum of 2 responsive quotes. Attach documentation of attempts made to obtain additional quotes and an engineer's estimate to support cost reasonableness.

- ☒ Single/sole source procurement (including the usage of an M/WBE firm with estimated costs under \$10,000). Complete the chart below and attach rationale for selecting subcontractor along with the basis for determining cost reasonableness (e.g., an engineer's estimate or one comparative quote).

<i>Subcontractor/Subconsultant</i>	<i>Phone Number</i>	<i>Date</i>	<i>Price Quote</i>
GeoCleanse International	732-970-6696	3/18/11	\$6086

On behalf of the Contractor named below, I hereby certify that the subcontract named below was procured in accordance with the terms of the prime contract and all applicable requirements of the State of New York. I also hereby certify that the executed subcontract includes all appropriate language and all required documents were completed appropriately and were acceptable. Specifically, I hereby certify the following:

1. The Contractor has determined that the subcontractor is qualified. A statement of qualifications for the subcontractor is maintained. It includes a statement of compliance with all licenses, certifications and permits, if applicable. (Note: For laboratories, this can be determined at <http://www.wadsworth.org/labservices.htm>).
2. The Contractor has determined the costs are reasonable. A procurement record supporting the determination is maintained.
3. The Contractor performed a Conflict of Interest (COI) check, if applicable, and documented it in writing. Refer to Appendix B, clause III (e) for applicability. (Note that for standby subcontractors selected on a WA, a new subcontract certification must be submitted.)
4. For subcontracts in excess (or anticipated to be in excess) of \$10,000, the subcontractor submitted an acceptable New York State Vendor Responsibility Questionnaire. Information related to vendor responsibility can be found at <http://www.osc.state.ny.us/agencies/gbull/g221.htm>.
5. The subcontract includes pass down requirements from Appendix B of the prime contract related to Minority and Women Business Enterprises (M/WBE) and Conflict of Interest (COI).
6. The subcontract includes the termination clause required in the prime contract.
7. The subcontract does not include "pay if paid" type clauses which are unenforceable in New York State.
8. Insurance carriers associated with the subcontract are licensed to do business in New York State. The State of New York and the Department of Environmental Conservation are named as additional insurers on the policies. Insurance limits meet prime contract requirements. (Note that licensed insurance can be determined at <http://www.ins.state.ny.us> and Best's Rating can be determined at <http://www.ambest.com>). Pollution liability insurance (for example, drilling subcontractors) and professional liability insurance (for example, subcontracts for professional services and laboratories) are included as appropriate.
9. Documentation supporting this certification is maintained by the Contractor and will be provided within 10 days of any request.

Maureen Wright
Signature of Contractor's Authorized Representative

3/21/11
Date

Dvirka and Bartilucci Consulting Engineers
Contractor Name

D004446-21A.1
Contract/WA No.

Geo-Cleanse International Inc.
Subcontractor Name

Rev. 02/11/10

Subcontract Solicitation Record and Certification for Standby Engineering Contracts

NEW YORK STATE DEPARTMENT OF ENVIRONMENTAL CONSERVATION
Division of Environmental Remediation

Site/Spill Name 123 Post Avenue Site – OU2

Site/Spill Number 1-30-088 Contract/WA # D004446-21A.1

NOTE: Standby Contractor must obtain Contract Manager approval prior to award of subcontract.

Check the appropriate box and complete the chart below:

- ☐ Standby cost-plus-fixed-fee subconsultant selected on rotational basis.
- ☒ Standby laboratory or data validator selected on rotational basis. If the work includes site-specific or other items which are not listed in the standby contract, obtain and attach complete quotes from all standby subcontractors. (Declinations to bid must be explained in the attached back-up.)
- ☐ Standby driller selected as lowest quote: Obtain and attach complete quotes from all standby drillers, including mob/demob costs and any site-specific items. (Declinations to bid must be explained in the attached back-up.)

For other unit-price or lump-sum subcontracting work, obtain the necessary number of quotes and complete the chart below:

- ☐ Total estimated costs are less than \$10,000; three responsive quotes must be obtained (verbal is allowed).
- ☐ Total estimated costs range from \$10,000 to \$20,000; three written responsive quotes must be obtained and attached.
- ☐ Total estimated costs are over \$20,000; five written responsive quotes must be obtained and attached.

Note: If unable to obtain a sufficient number of quotes, obtain and attach a minimum of 2 responsive quotes. Attach documentation of attempts made to obtain additional quotes and an engineer's estimate to support cost reasonableness.

- ☐ Single/sole source procurement (including the usage of an M/WBE firm with estimated costs under \$10,000). Complete the chart below and attach rationale for selecting subcontractor along with the basis for determining cost reasonableness (e.g., an engineer's estimate or one comparative quote).

<i>Subcontractor/Subconsultant</i>	<i>Phone Number</i>	<i>Date</i>	<i>Price/Quote</i>
Mitkem Laboratories	401-732-3400	3/18/11	\$13,205

On behalf of the Contractor named below, I hereby certify that the subcontract named below was procured in accordance with the terms of the prime contract and all applicable requirements of the State of New York. I also hereby certify that the executed subcontract includes all appropriate language and all required documents were completed appropriately and were acceptable. Specifically, I hereby certify the following:

1. The Contractor has determined that the subcontractor is qualified. A statement of qualifications for the subcontractor is maintained. It includes a statement of compliance with all licenses, certifications and permits, if applicable. (Note: For laboratories, this can be determined at <http://www.wadsworth.org/labservices.htm>).
2. The Contractor has determined the costs are reasonable. A procurement record supporting the determination is maintained.
3. The Contractor performed a Conflict of Interest (COI) check, if applicable, and documented it in writing. Refer to Appendix B, clause III (e) for applicability. (Note that for standby subcontractors selected on a WA, a new subcontract certification must be submitted.)
4. For subcontracts in excess (or anticipated to be in excess) of \$10,000, the subcontractor submitted an acceptable New York State Vendor Responsibility Questionnaire. Information related to vendor responsibility can be found at <http://www.osc.state.ny.us/agencies/gbull/g221.htm>
5. The subcontract includes pass down requirements from Appendix B of the prime contract related to Minority and Women Business Enterprises (M/WBE) and Conflict of Interest (COI).
6. The subcontract includes the termination clause required in the prime contract.
7. The subcontract does not include "pay if paid" type clauses which are unenforceable in New York State.
8. Insurance carriers associated with the subcontract are licensed to do business in New York State. The State of New York and the Department of Environmental Conservation are named as additional insurers on the policies. Insurance limits meet prime contract requirements. (Note that licensed insurance can be determined at <http://www.ins.state.ny.us> and Best's Rating can be determined at <http://www.ambest.com>). Pollution liability insurance (for example, drilling subcontractors) and professional liability insurance (for example, subcontracts for professional services and laboratories) are included as appropriate.
9. Documentation supporting this certification is maintained by the Contractor and will be provided within 10 days of any request.

Mana Wright 3/21/11
Signature of Contractor's Authorized Representative Date

Dvirka and Bartilucci Consulting Engineers D004446-21A.1
Contractor Name Contract/WA No.

Mikem Corporation.
Subcontractor Name

Rev. 02/11/10

Subcontract Solicitation Record and Certification for Standby Engineering Contracts

NEW YORK STATE DEPARTMENT OF ENVIRONMENTAL CONSERVATION Division of Environmental Remediation

Site/Spill Name 123 Post Avenue Site – OU2

Site/Spill Number 1-30-088 Contract/WA # D004446-21A.1

NOTE: Standby Contractor must obtain Contract Manager approval prior to award of subcontract.

Check the appropriate box and complete the chart below:

- ☐ Standby cost-plus-fixed-fee subconsultant selected on rotational basis.
- ☒ Standby laboratory or data validator selected on rotational basis. If the work includes site-specific or other items which are not listed in the standby contract, obtain and attach complete quotes from all standby subcontractors. (Declinations to bid must be explained in the attached back-up.)
- ☐ Standby driller selected as lowest quote: Obtain and attach complete quotes from all standby drillers, including mob/demob costs and any site-specific items. (Declinations to bid must be explained in the attached back-up.)

For other unit-price or lump-sum subcontracting work, obtain the necessary number of quotes and complete the chart below:

- ☐ Total estimated costs are less than \$10,000; three responsive quotes must be obtained (verbal is allowed).
- ☐ Total estimated costs range from \$10,000 to \$20,000; three written responsive quotes must be obtained and attached.
- ☐ Total estimated costs are over \$20,000; five written responsive quotes must be obtained and attached.

Note: If unable to obtain a sufficient number of quotes, obtain and attach a minimum of 2 responsive quotes. Attach documentation of attempts made to obtain additional quotes and an engineer's estimate to support cost reasonableness.

- ☐ Single/sole source procurement (including the usage of an M/WBE firm with estimated costs under \$10,000). Complete the chart below and attach rationale for selecting subcontractor along with the basis for determining cost reasonableness (e.g., an engineer's estimate or one comparative quote).

Subcontractor/Subconsultant	Phone Number	Date	Price/Quote
Con-Test Laboratories	413-525-2332	3/11/11	\$4,875

On behalf of the Contractor named below, I hereby certify that the subcontract named below was procured in accordance with the terms of the prime contract and all applicable requirements of the State of New York. I also hereby certify that the executed subcontract includes all appropriate language and all required documents were completed appropriately and were acceptable. Specifically, I hereby certify the following:

1. The Contractor has determined that the subcontractor is qualified. A statement of qualifications for the subcontractor is maintained. It includes a statement of compliance with all licenses, certifications and permits, if applicable. (Note: For laboratories, this can be determined at <http://www.wadsworth.org/labservices.htm>).
2. The Contractor has determined the costs are reasonable. A procurement record supporting the determination is maintained.
3. The Contractor performed a Conflict of Interest (COI) check, if applicable, and documented it in writing. Refer to Appendix B, clause III (e) for applicability. (Note that for standby subcontractors selected on a WA, a new subcontract certification must be submitted.)
4. For subcontracts in excess (or anticipated to be in excess) of \$10,000, the subcontractor submitted an acceptable New York State Vendor Responsibility Questionnaire. Information related to vendor responsibility can be found at <http://www.osc.state.ny.us/agencies/gbull/g221.htm>
5. The subcontract includes pass down requirements from Appendix B of the prime contract related to Minority and Women Business Enterprises (M/WBE) and Conflict of Interest (COI).
6. The subcontract includes the termination clause required in the prime contract.
7. The subcontract does not include "pay if paid" type clauses which are unenforceable in New York State.
8. Insurance carriers associated with the subcontract are licensed to do business in New York State. The State of New York and the Department of Environmental Conservation are named as additional insurers on the policies. Insurance limits meet prime contract requirements. (Note that licensed insurance can be determined at <http://www.ins.state.ny.us> and Best's Rating can be determined at <http://www.ambest.com>). Pollution liability insurance (for example, drilling subcontractors) and professional liability insurance (for example, subcontracts for professional services and laboratories) are included as appropriate.
9. Documentation supporting this certification is maintained by the Contractor and will be provided within 10 days of any request.

M. A. Wright 3/21/11
Signature of Contractor's Authorized Representative Date

Dvirka and Bartilucci Consulting Engineers D004446-21A.1
Contractor Name Contract/WA No.

Con-Test Analytical Laboratory
Subcontractor Name

Rev. 02/11/10

Subcontract Solicitation Record and Certification for Standby Engineering Contracts

NEW YORK STATE DEPARTMENT OF ENVIRONMENTAL CONSERVATION
Division of Environmental Remediation

Site/Spill Name 123 Post Avenue Site – OU2

Site/Spill Number 1-30-088 Contract/WA # D004446-21A.1

NOTE: Standby Contractor must obtain Contract Manager approval prior to award of subcontract.

Check the appropriate box and complete the chart below:

☒ Standby cost-plus-fixed-fee subconsultant selected on rotational basis.

☐ Standby laboratory or data validator selected on rotational basis. If the work includes site-specific or other items which are not listed in the standby contract, obtain and attach complete quotes from all standby subcontractors. (Declinations to bid must be explained in the attached back-up.)

☐ Standby driller selected as lowest quote: Obtain and attach complete quotes from all standby drillers, including mob/demob costs and any site-specific items. (Declinations to bid must be explained in the attached back-up.)

For other unit-price or lump-sum subcontracting work, obtain the necessary number of quotes and complete the chart below:

☐ Total estimated costs are less than \$10,000; three responsive quotes must be obtained (verbal is allowed).

☐ Total estimated costs range from \$10,000 to \$20,000; three written responsive quotes must be obtained and attached.

☐ Total estimated costs are over \$20,000; five written responsive quotes must be obtained and attached.

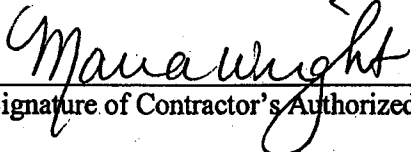
Note: If unable to obtain a sufficient number of quotes, obtain and attach a minimum of 2 responsive quotes. Attach documentation of attempts made to obtain additional quotes and an engineer's estimate to support cost reasonableness.

☐ Single/sole source procurement (including the usage of an M/WBE firm with estimated costs under \$10,000). Complete the chart below and attach rationale for selecting subcontractor along with the basis for determining cost reasonableness (e.g., an engineer's estimate or one comparative quote).

Subcontractor/Subconsultant	Phone Number	Date	Price Quote
YEC Inc.	(845) 268-3203	3/18/11	\$5,536.21

On behalf of the Contractor named below, I hereby certify that the subcontract named below was procured in accordance with the terms of the prime contract and all applicable requirements of the State of New York. I also hereby certify that the executed subcontract includes all appropriate language and all required documents were completed appropriately and were acceptable. Specifically, I hereby certify the following:

1. The Contractor has determined that the subcontractor is qualified. A statement of qualifications for the subcontractor is maintained. It includes a statement of compliance with all licenses, certifications and permits, if applicable. (Note: For laboratories, this can be determined at <http://www.wadsworth.org/labservices.htm>).
2. The Contractor has determined the costs are reasonable. A procurement record supporting the determination is maintained.
3. The Contractor performed a Conflict of Interest (COI) check, if applicable, and documented it in writing. Refer to Appendix B, clause III (e) for applicability. (Note that for standby subcontractors selected on a WA, a new subcontract certification must be submitted.)
4. For subcontracts in excess (or anticipated to be in excess) of \$10,000, the subcontractor submitted an acceptable New York State Vendor Responsibility Questionnaire. Information related to vendor responsibility can be found at <http://www.osc.state.ny.us/agencies/gbull/g221.htm>
5. The subcontract includes pass down requirements from Appendix B of the prime contract related to Minority and Women Business Enterprises (M/WBE) and Conflict of Interest (COI).
6. The subcontract includes the termination clause required in the prime contract.
7. The subcontract does not include "pay if paid" type clauses which are unenforceable in New York State.
8. Insurance carriers associated with the subcontract are licensed to do business in New York State. The State of New York and the Department of Environmental Conservation are named as additional insurers on the policies. Insurance limits meet prime contract requirements. (Note that licensed insurance can be determined at <http://www.ins.state.ny.us> and Best's Rating can be determined at <http://www.ambest.com>). Pollution liability insurance (for example, drilling subcontractors) and professional liability insurance (for example, subcontracts for professional services and laboratories) are included as appropriate.
9. Documentation supporting this certification is maintained by the Contractor and will be provided within 10 days of any request.

	<u>3/17/11</u>
Signature of Contractor's Authorized Representative	Date
<u>Dvirka and Bartilucci Consulting Engineers</u>	<u>D004446-21A.1</u>
Contractor Name	Contract/WA No.

YEC Inc.
Subcontractor Name

Rev. 02/11/10

ATTACHMENT 3

COST CONTROL CHECKLIST

Cost Review for Schedule 2.11 Package

Contractor Name: Dvirka and Bartilucci Consulting Engineers

Date: 3-11-11

WA # and Name: D004446-21A.1

Reviewer: M. Wright

GENERAL COST REVIEW CHECKLIST		Yes	No	Comments
	A complete set of 2.11 Schedules (a) through (h) is attached.	X		
	Budget package includes a cover letter and an M/WBE Utilization Plan.	X		
1	Cover Letter			
	Provides brief justification of the budget supported by the 2.11s.	X		
	Anticipated completion date(s) for the work are included. For amendments, there is an explanation of how the submittal affects the existing schedule.	X		
	Duration of anticipated work does not exceed the next fiscal year. (Work subsequent to that should be part of a future amendment or new work assignment.)	X		
	If proposing work for multiple years, a brief justification is included.	X		
	Includes anticipated billings by State fiscal year. For amendments, both the unexpended budget and the new costs being added are identified.	X		
	If an amendment, the current status of work (what's completed/billed, what remains) is provided.	X		
2	Schedule 2.11(b) - Direct Labor			
	Average reimbursement rates are used for each year. Future years escalate 3%.	X		
	Hours are segregated by year.	X		
	Total cost for each NSPE level is shown.	X		
	Total direct labor costs match amounts on Schedule 2.11(a).	X		
	The Principal's (NSPE IX) labor hours charged to WA are less than 2% of the total.	X		
	Total labor hours match hours on Schedule 2.11(h).	X		
3	Schedule 2.11(b-1) - Direct Administrative Labor Hours			
	Breakdown of Schedule 2.11(b-1) is reasonable, i.e., admin LOE is within acceptable guideline of <4% of overall WA LOE. Justification is attached for any exceedance.	X		
4	Schedules 2.11(c) and (d) - Direct Non-Salary Costs			
	Rates listed in Schedule 2.11(c) are consistent with contract.	X		
	Rates for in-house and/or misc. costs match contract Schedule 2.10(b) or 2.10(c) (2).			NA
	Quotes are included for any non-contract item (including equipment purchases & rentals; excluding air fare) >\$1k. If sufficient number of quotes are unavailable, an engineer's estimate must be provided. The low quote has been selected.	X		
	All costs are allowable, e.g., office telephone and office shipping cannot be reimbursed as a direct cost if they're included in ICR. Field costs must be receipted.	X		
	Appropriate lodging/per diem/mileage rates are used.	X		
	Schedule 2.11(d)1 - All equipment purchased is supported by cost justification that's acceptable to the CM. Equipment is to be maintained by the contractor or turned over to DEC, and it must be added to contractor's inventory list (include a revised copy).			NA
	Schedule 2.11(d)2 - Rates for consultant-owned equipment match Schedule 2.10(c).			NA
	Schedule 2.11(d)4 - Includes equipment to be used only on the WA (such as blower purchased to upgrade SVE system).	X		
	Other direct costs (no. of field days, lodging, and field equipment usage) are reasonable based on field work schedule or supporting documentation.	X		
	Total of direct non-salary costs matches the amount on Schedule 2.11(a).	X		

5	Schedule 2.11(f) - Cost-plus-fixed-fee subcontracts		
	Proposed subconsultant is on standby or has DEC-approved rates with another standby consultant. Otherwise, financial information required for cost analysis must be submitted.	X	Note: GeoCleanse approved under D004446-4 WA.
	Standby subcontract is active and rates (salary, direct and indirect costs, and fixed fee) match contract rates.	X	
	A breakdown of direct non-salary costs is provided.	X	
	Total subcontract cost matches amount on Schedule 2.11(a).	X	
	Subcontractor has justified/obtained adequate quotes for any further subcontracted work.		NA
	Subcontractor certification(s) have been submitted.		Attached.
6	Schedule 2.11(f) - Unit Price Subcontracts		
	There are quotes for non-standby subcontracts >\$1k. Bids are comparable (quantities and items) and provide unit costs plus job total. If sufficient number of quotes are unavailable, an engineer's estimate must be provided. The low quote has been selected.		NA
	<i>Standby Drillers</i> (Two phase process) - Quotes from all standbys are attached. Proper unit costs and mobilization/demobilization costs are used. The low quote has been selected. Explanation for declinations has been provided.		NA
	<i>Standby Labs and Data Validators</i> (rotate use) - Unit costs match those in contract(s).	X	
	M/WBE - Cost reasonableness of sole/single source M/WBE contracts <\$10k are documented by an engineer's estimate.		NA
	Cost reasonableness of sole/single source contracts are documented by an engineer's estimate or other cost comparisons (e.g., historical costs, pricing guides).		NA
	Placeholders are used only for non-standby subcontractors.		NA
	Cost reasonableness of placeholder subcontractors are documented by an engineer's estimate or other cost comparisons.		NA
	Correct contract management fee is calculated only on non-professional unit priced subs >\$10k and M/WBE firms from \$1. (Management fee is not allowed on professional engineering firms, architects, or surveyors unless the contract specifically allows it.)	X	
	Total subcontract costs match the amounts on Schedule 2.11(a).	X	
	Justification is attached for subcontracts >\$100,000 supporting a determination not to design and competitively bid the work. Response-type activities (drum removals, other construction-type activities) must be competitively bid unless otherwise approved.		NA
	Subcontractor certification(s) have been submitted.		Attached.
7	Schedule 2.11(g) - Cost Control Report		
	Individual 2.11(g)s equal Summary 2.11(g) and costs match those on 2.11(a).	X	
8	Schedule 2.11(g) - Supplemental Cost Control Report (sub)		
	Includes all applicable subcontracts and management fees (for unit price only).	X	
9	Schedule 2.11(h)		
	Rates for indirect and fixed fee match contract rates.	X	
	All numbers rolled up into Schedule 2.11(a) add up.	X	

rev. 8/23/10

ATTACHMENT 4

COST REASONABLENESS DOCUMENTATION

EQUIPMENT RENTAL RATES

Equipment	ENVIRENT Corp.	Field Environmental Instruments, Inc.	Pine Environmental	Superior Rental
Water Level Meter	\$50/week	\$50/week	\$60/week	--
MiniRAE 2000 PID Meter	\$195/week	\$225/week	\$200/week	--
MIE PDR 1000 Dust Meter	\$190/week	\$200/week	\$190/week	--
Horiba U22 Water Quality Meter With Flow Cell	\$300/week	\$370/week	\$300/week	--
Generator	\$150/week	NA	\$135/week	\$267/week
Grunfos 2" Pump with Converter	\$285/week	\$475/week	\$290/week	--
Shipping/Delivery	\$50/shipment	\$450/shipment	Included	Included

New York State Department Of Environmental Conservation

Office of Minority and Women's Business Program

625 Broadway, 10th Floor, Albany, New York 12233-5028

Phone: 518.402.9311 Fax: 518.402.9230

Website: www.dec.ny.gov Email: mwbe@gw.dec.state.ny.us



Version 2.1

Consultant / Contractor Detailed M/WBE-EEO Utilization Plan

Contractor Name:	DVIRKA AND BARTILUCCI CONSULTING ENGINEERS		
NYSDEC Contract No:	D004446	Contractor Federal ID:	112393559
Contract Start Date:	11/30/2005	Contract End Date:	11/30/2012
		Date Submitted:	03/22/2011
Contractor Address:	330 CROSSWAYS PARK DRIVE		
City:	WOODBURY	State:	New York
		Zip Code	11797
Contractor E-mail:	mwright@db-eng.com		Contractor Phone Number:
			(516) 364-9890

Contract Type:	Services / Technologies
Project Goals Based on:	Work Assignments
Project County:	Nassau
Authorized Representative Name:	MARIA WRIGHT
Authorized Representative Title:	CONTRACT MANAGER

M/WBE Contract Summary	%	Amount	EEO Contract Summary	%	No of Employees
1. NYSDEC Contract Amount	(A)	\$11,949,000.00	7. Total Employees in this project	100 %	146
2. Recipient Share (If Applicable)	(B)		8. Total Goal -Minority Employees %	10	14.6
3. Total Project Amount (A + B) *	100 %	\$11,949,000.00	9. Total Goal - Female Employees %	10	14.6
4. MBE Project Goal %	15.	\$1,792,350.00	10. EEO Combined Totals %	20	29.2
5. WBE Project Goal %	5.	\$597,450.00	* - Goals apply on Total Project Amount		
6. M/WBE Total %	20	\$2,389,800.00			

Section II - EEO Information: In order to achieve the EEO Goals, Minorities and Females are expected to be employed in the following Job categories. Please provide breakdown of Minority and Female Employees assigned to this project Only. If the EEO goals are not met please provide an explanation in the comments area.

Job Categories	Total Count of Minority Employees	Breakdown of Total Count of Minority Employees by Gender		Breakdown of Total Count of Minority Employees by Ethnicity				
		Male	Female	African American	Asian	Native American	Hispanic	White
Officials/Managers								
Professionals	31	13	18	2	8		6	15
Technicians	1		1					1
Sales Workers								
Office/Clerical	18	2	16	1	1	1	2	13
Craftsman								
Laborers								
Service / Workers								
Totals	50	15	35	3	9	1	8	29

Comments:

Please don't remove previous comments

Work Assignment No. D004446-21.1 - 123 Post Avenue OU1 - This submittal is for the first amendment for the 123 Post Avenue OU1 - Remedial Design . The scope of work for this amendment is to perform a pilot study at the site. The amendment includes the addition of increased utilization of Mitkem Laboratories, Con-Test Analytical Laboratories an MBE and YEC Inc an MBE. It also includes the reduction of Jamaica Blueprint since their services will no longer be utilized under this work assignment.

Section III - M/WBE Information: In order to achieve the M/WBE Goals, New York State Certified MINORITY/WOMEN-OWNED firms are expected to participate in the following manner.

Important: If there is NO M/WBE Vendor Participation please provide brief summary of Good Faith Documentation in the Comments. Do not enter NA or NONE in Vendor Name.

M/WBE Vendor Name	Federal ID	Vendor Status	Subcontract Amount	Start Date	End Date	Payment Date	Work Description
MITKEM CORPORATION	050476460	MBE	\$336,834.00	12/01/2005	11/30/2012		Sample analysis
OM P POPLI ENGINEERS	161424510	MBE	\$10,968.00	12/01/2005	11/30/2012		Surveying
ECOLOGIC, LLC	164536712	WBE	\$73,531.00	12/01/2005	11/30/2012		Wetlands survey and field oversight
DELTA WELL AND PUMP	112841186	WBE	\$467,066.00	12/01/2005	11/30/2012		Drilling services
JAMAICA BLUEPRINTING	112123329	WBE	\$92,643.00	12/01/2005	11/30/2012		Reproduction services
MATRIX ENV & GEOTECHNICAL SERVICES	223057511	WBE	\$86,187.00	12/01/2005	11/30/2012		Geotechnical services
COASTAL ENVIRONMENTAL	061495737	MBE	\$16,070.00	12/01/2005	11/30/2012		Investigation Derived Waste Disposal
PROPERTY CONSTRUCTION SERVICES LLC	202238341	WBE	\$6,600.00	12/01/2005	11/30/2012		Landscaping
YEC INC	133256907	MBE	\$40,048.00	12/01/2005	11/30/2012		SVE System Monitoring/ Surveying
CON-TEST ANALYTICAL LAB	161243205	MBE	\$31,814.00	12/01/2005	11/30/2012		Sample analysis
HAGER-RICHTER GEOSCIENCE INC	020381614	WBE	\$2,250.00	12/01/2005	11/30/2012		Utility Survey
	Total Subcontract Amount		\$1,164,011.00				

By printing name below, Contractor: 1. Certifies that the above information is true and complete as of this date. 2. If required, Will Provide good faith effort documentation to NYSDEC.

Important: Please don't attach this form manually to E-Mail instead Click Submit by E-mail button to send form via E-Mail.

Authorized Representative Signature (Print Name)

MARIA WRIGHT

FOR NYSDEC MWBE UNIT USE ONLY

Approved By:

Approved Date:

New York State Department of Environmental Conservation

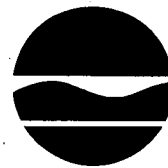
Division of Environmental Remediation

Bureau of Program Management, 12th Floor

625 Broadway, Albany, NY 12233-7012

Phone: (518) 402-9764 • **Fax:** (518) 402-9722

Website: www.dec.ny.gov



Alexander B. Grannis
Commissioner

April 23, 2010

Mr. Richard Walka
Dvirka & Bartilucci Consulting Engineers
330 Crossways Park Drive
Woodbury, NY 11797-2015

**RE: Schedule 2.11s Rebudget Approval
Work Assignment #D004446-21A
123 Post Avenue, Site #130088**

Dear Mr. Walka:

The New York State Department of Environmental Conservation's Division of Environmental Remediation hereby approves the attached revised Schedule 2.11s for the above referenced work assignment (WA), keeping the present budget at \$185,167 but reallocating money from labor expenses to subcontractor and direct non-salary costs. D & B may now submit a request for reimbursement for work completed under this WA.

If you have any questions regarding this WA, please contact the Project Manager, Nathan Putnam, at (518) 402-9621.

Sincerely,

Michael J. Cruden, P.E.
Chief
Contracts and Payments Section
Bureau of Program Management
Division of Environmental Remediation

Attachment

cc: rwalka@db-eng.com
N. Putnam, PM
L. Lewis, CM
M. Cruden
D. Desnoyers
S. Ervolina
D. Weigel
G. Bobersky
C. Vasudevan
D. Finlayson
T. Wolosen
M/WBE Unit

From: Nathan Putnam
To: Lisa Lewis
Date: 4/23/2010 3:34 PM
Subject: Re: 123 Post Avenue - OU2 - Approval of revised re-budget package

Lisa,

The entire revised re-budget as described in "workplan.hw130088.2010-04-23.D&B_D004446-21A_rebudget211s_Fin.pdf" is acceptable.

Nathan E. Putnam
Environmental Engineer
NYS DEC
Division of Environmental Remediation
518-402-9621

>>> Lisa Lewis 4/23/2010 2:30 PM >>>
Nathan-

Please confirm that the entire revised re-budget package for D004446-21 is acceptable to you (see attachment).

Thanks,
Lisa

Lisa M. Lewis
Contract Manager
NYS Dept. of Environmental Conservation
Division of Environmental Remediation
Bureau of Program Management
Contracts & Payments Section
625 Broadway, 12th Floor
Albany, NY 12233-7012

Phone: (518) 402-9601
Fax: (518) 402-9722
Email: lmlewis@gw.dec.state.ny.us

>>> Nathan Putnam 2/25/2010 2:15 PM >>>
Maria, Lisa,

The estimate, utilizing Zebra as the apparent low bid, looks good from my end.

Nathan

Nathan E. Putnam
Environmental Engineer
NYS DEC
Division of Environmental Remediation
518-402-9621

>>> "Maria Wright" <MWright@db-eng.com> 2/18/2010 12:35 PM >>>
Lisa-

Please find attached Addendum No. 1 for the above referenced site. As noted in my cover letter, I will sign a subcontract certification for Zebra Environmental once I have received confirmation from you that their costs are reasonable and we sign an amendment to their current contract. If you have any questions, please contact me.

Also, please let me know if you would like a hard copy of the attached.

Thanks, <<addendum1.hw.130088.pdf>>

Maria Wright, P.E.
db | Dvirka and Bartilucci Consulting Engineers
(516) 364-9890 x 3060 (phone)
(516) 364-9045 (fax)
330 Crossways Park Drive
Woodbury, NY 11797

P Please consider the environment before printing this e-mail.

CONFIDENTIALITY NOTICE: This e-mail message, including attachments, is for the sole use of the intended recipient and may contain confidential, proprietary, and/or privileged information. Any unauthorized review, use, disclosure, or distribution is prohibited. If you are not an intended recipient or you have received this e-mail in error, please contact the sender by reply e-mail and destroy all copies of the original message.

Cost Review for Work Plan or Amendment

Contractor Name: Dvirka & Bartilucci

Date: 4/23/10

WA # and Name: 123 Post Avenue RD, D004446-21A

Reviewer: Lisa Lewis

GENERAL COST REVIEW CHECKLIST		Yes	No	Comments
	A complete set of 2.11 Schedules (a) through (h) is attached.	X		
	Budget package includes a cover letter and an M/WBE Utilization Plan.	X		UP = N/A
1.	Schedule 2.11(b) – Direct Labor			
	Average reimbursement rates are used for each year. Future years escalate 3%.	X		
	Hours are segregated by year.	X		
	Total cost for each NSPE level is shown.	X		
	Total direct labor costs match amounts on Schedule 2.11(a).	X		
	The Principal's (NSPE level 9) labor hours charged to WA are less than 2% of the total.	X		
	Total labor hours match hours on Schedule 2.11(h).	X		
2.	Schedule 2.11(b-1) – Direct Administrative Labor Hours			
	Breakdown of Schedule 2.11(b-1) is reasonable, i.e., admin LOE is within acceptable guideline of <4% of overall WA LOE. Justification is attached for any exceedance.	X		
3.	Schedules 2.11(c) and (d) - Direct Non-Salary Costs			
	Rates listed in Schedule 2.11(c) are consistent with contract.	X		
	Rates for in-house and/or misc. costs match contract Schedule 2.10(b) or 2.10(c)2.	X		
	Quotes are included for any non-contract item (including equipment purchases & rentals; excluding air fare) >\$1k. If sufficient number of quotes are unavailable, an engineer's estimate must be provided. The low quote has been selected.	---	---	N/A
	All costs are allowable, e.g., office telephone and office shipping cannot be reimbursed as a direct cost if they're included in ICR. Field costs must be receipted.	X		
	Appropriate lodging/per diem/mileage rates are used.	X		
	Schedule 2.11(d)1 - All equipment purchased is supported by cost justification that's acceptable to the CM. Equipment is to be maintained by the contractor or turned over to DEC, and it must be added to contractor's inventory list (include a revised copy).	---	---	N/A
	Schedule 2.11(d)2 - Rates for consultant-owned equipment match Schedule 2.10(c).	---	---	N/A
	Schedule 2.11(d)4 - Includes equipment to be used only on this WA (such as a blower purchased to upgrade SVE system).	X		
	Other direct costs (no. of field days, lodging, and field equipment usage) are reasonable based on field work schedule or supporting documentation.	X		
	Total of direct non-salary costs matches the amount on Schedule 2.11(a).	X		
4.	Schedule 2.11(e) - Cost-plus-fixed-fee Subcontracts			
	Proposed subconsultant is on standby or has DEC-approved rates with another standby consultant. Otherwise, financial information required for cost analysis must be submitted.	---	---	N/A

	Schedule 2.11(e) - Continued	Yes	No	Comments
	Standby subcontract is active and rates (salary, direct and indirect costs, and fixed fee) match contract rates.	---	---	N/A
	A breakdown of direct non-salary costs is provided.	---	---	
	Total subcontract cost matches amount on Schedule 2.11(a).	---	---	
	Subcontractor has justified/obtained adequate quotes for any further subcontracted work.	---	---	
	Subcontractor certification(s) have been submitted.	---	---	
5.	Schedule 2.11(f) - Unit Price Subcontracts			
	There are quotes for non-standby subcontracts >\$1k. Bids are comparable (quantities and items) and provide unit costs plus job total. If sufficient number of quotes are unavailable, an engineer's estimate must be provided. The low quote has been selected.	X		Most subs cont'd from orig WA
	<i>Standby Drillers</i> (Two phase process) - Quotes from all standbys are attached. Proper unit costs and mobilization/demobilization costs are used. The low quote has been selected. Explanation for declinations has been provided.	---	---	N/A
	<i>Standby Labs and Data Validators</i> (rotate use) - Unit costs match those in contract(s).	X		
	M/WBE - Cost reasonableness of sole/single source M/WBE contracts <\$10k are documented by an engineer's estimate.	---	---	N/A
	Cost reasonableness of sole/single source contracts are documented by an engineer's estimate or other cost comparisons (e.g., historical costs, pricing guides).	X		
	Placeholders are used only for non-standby subcontractors.	---	---	N/A
	Cost reasonableness of placeholder subcontractors are documented by an engineer's estimate or other cost comparisons.	---	---	N/A
	Correct management fee is calculated only on non-professional unit priced subs >\$10k and M/WBE firms from \$1. (Management fee is not allowed on professional engineering firms, architects, or surveyors unless the contract specifically allows it.)	X		
	Total subcontract costs match the amounts on Schedule 2.11(a).	X		
	Justification is attached for subcontracts >\$100,000 supporting a determination not to design and competitively bid the work. Response-type activities (drum removals, other construction-type activities) must be competitively bid unless otherwise approved.	---	---	N/A
	Subcontractor certification(s) have been submitted.	X		Contest = N/A
6.	Schedule 2.11(g) - Cost Control Report			
	Individual 2.11(g)s equal Summary 2.11(g) and costs match those on 2.11(a).	X		
7.	Schedule 2.11(g) Supplemental - Cost Control Report (subs)			
	Schedules include all applicable subcontracts and management fees (for unit price only).	X		
8.	Schedule 2.11(a)			
	Rates for indirect and fixed fee match contract rates.	X		
	All numbers rolled up into Schedule 2.11(a) add up.	X		

Rev. 6/17/09

Bst Ave #21 Rebudget

DSC	↓	3908
IC	↓	5901
DNSC	↑	2804
Subs	↑	8134
FF	↓	1128
Total	-	0



Dvirka and Bartilucci

CONSULTING ENGINEERS

330 Crossways Park Drive, Woodbury, New York 11797-2015
516-364-9890 • 718-460-3634 • Fax: 516-364-9045
e-mail: findingsolutions@db-eng.com

☒ APPROVED
LML 4/23/10

Board of Directors

Henry J. Chlupsa, P.E.
President

Steven A. Fangmann, P.E., BCEE
Executive Vice President

Nicholas J. Bartilucci, P.E., BCEE
Chairman

Vice Presidents

Richard M. Walka
Senior Vice President

Dennis F. Koehler, P.E.
Senior Vice President

Joseph H. Marturano
Senior Vice President

Garrett M. Bymes, P.E.
Vice President

Thomas P. Fox, P.G.
Vice President

William D. Merklin, P.E.
Vice President

Harvey P. Moutal, P.E.
Vice President

Michael Neuberger, P.E.
Vice President

Kenneth J. Pritchard, P.E.
Vice President

Theodore S. Pytlar, Jr.
Vice President

Brian M. Veith, P.E.
Vice President

Charles J. Wachsmuth, P.E.
Vice President

Senior Associates

Steven M. Cabrera

Christopher M. Clement

Rob J. DeGiorgio, P.E., CPESC

Joseph A. Fiorillo, P.E.

Michael R. Hofgren

Phillip R. Sachs, P.E.

Daniel Shabat, P.E.

Associates

Joseph F. Baader

Rudolph F. Cannavale

Ellen R. DeOrsay

Matthew R. DeVinney, P.E.

Frank DeVita

Christopher W. Francis

Christopher Koegel

Christopher M. LeHanka

James J. Magda

Olga Mubarak-Jaramillo

Roger W. Owens

Robbin A. Petrella

Edward J. Rellly

Jason R. Tonne

February 18, 2010

Ms. Lisa Lewis

Bureau of Program Management

Division of Environmental Remediation

New York State Department of Environmental Conservation

625 Broadway

Albany, NY 12233

Re: 123 Post Avenue – OU2
Additional Groundwater Investigation
Work Assignment No. D004446-21A
D&B No. 2599-02

Dear Ms. Lewis:

As discussed, the New York State Department of Environmental Conservation (NYSDEC) is interested in proceeding with further evaluation of the groundwater contamination detected in groundwater monitoring well OU2-3. As part of this evaluation, D&B will collect additional groundwater samples with depth in the vicinity of groundwater monitoring well OU2-3 and downgradient of monitoring well OU2-3. The following summarizes the tasks to be completed for this additional investigation.

Existing Groundwater Monitoring Wells

NYSDEC has requested that groundwater samples be collected from existing groundwater monitoring wells OU2-1, OU2-2, OU2-3, OU2-4, OU2-5 and PSW-4D, since the last time these wells were sampled was in the fall of 2008. Groundwater samples will be analyzed for volatile organic compounds (VOCs) in accordance with NYSDEC Analytical Services Protocol (ASP) OLM04.2.

It is anticipated that the additional groundwater sampling will take approximately 3 days to complete. This estimate includes the assumption that the Nassau County Department of Public Works (NCDPW) will allow discharge of the purge water to the Nassau County sanitary sewer system. NCDPW has, for past sampling events, allowed purge water to be discharged to the sewer system at a location south of the site and we will seek permission to discharge the purge water as part of this round of groundwater sampling. Once the results of the groundwater samples collected from the existing wells are received, the results will be tabulated, reviewed and provided to the NYSDEC. Review of the results of the groundwater sampling may require modification of the location of the temporary groundwater sampling points discussed below.

Ms. Lisa Lewis
Bureau of Program Management
Division of Environmental Remediation
New York State Department of Environmental Conservation
February 18, 2010

Soil Boring and Temporary Well Points

Three geologic borings will be installed at the intersection of Bedford Avenue and South Grand Street; the intersection of Lafayette and South Grand Street and further south on South Grand Street near Myrtle Avenue, adjacent to temporary well points TP-2, TP-5 and TP-9 (see attached figure). The soil borings will be drilled using direct push (Geoprobe) sampling technology to 150 feet, with soil samples collected every 10 feet for stratigraphic information.

Nine temporary groundwater well points (TP-1 through TP-9) will be installed downgradient of existing groundwater monitoring well OU2-3 using Geoprobe sampling technology (see attached Figure). The proposed locations will be installed as three transects across the projected plume which include the intersections of Bedford Avenue and South Grand Street, Lafayette Avenue and South Grand Street and within the McDonalds parking lot on Old Country Road. The proposed locations are subject to change based on the results of the groundwater sample results received from the existing groundwater monitoring wells, the results of the sampling from temporary well points TP-1, TP-2 and TP-3, as well as the results of the utility markouts for the area. Sample depths may also be modified based on the results of the soil boring. Groundwater samples will be collected every 10 feet from 150 feet to 90 feet. Groundwater samples will be analyzed for VOCs using NYSDEC ASP OLMO4.2. It is recommended to have expedited turnaround time for the groundwater samples collected from TP-1, TP-2 and TP-3 to potentially modify the groundwater sampling depths and locations at the remaining temporary well points.

Installation of the soil borings and seven of the well points will be in the rights-of-way of the roadways, and D&B will help with coordination between the drilling contractor and the Village of Westbury to obtain the permits needed to perform the work. We will also provide assistance to the NYSDEC to gain access to private property, including the parking lot of McDonalds.

Based on our discussions with two firms which have use of the Geoprobe 8040DT rig, they will not confirm that the direct push rig will be capable of achieving the desired depth; however, they did confirm that they have achieved depths of up to 170 feet at other locations on Long Island.

Water Supply Well Information

We have contacted Nassau County Health Department (NCHD) to determine if they had any recent data from the car wash well. They indicated that they had not sampled the well in at least 5 years. Therefore, we would recommend that we collect a sample from this well as part of the groundwater sampling of the existing wells. NCHD indicated they would help coordinate access to the property and collection of the sample.

Dvirka and Bartilucci
CONSULTING ENGINEERS

Page Three

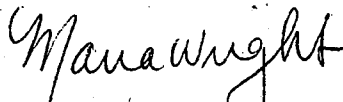
Ms. Lisa Lewis
Bureau of Program Management
Division of Environmental Remediation
New York State Department of Environmental Conservation
February __, 2010

In order to perform the required additional soil and groundwater investigation in a cost efficient manner, we would like to utilize a new direct push rig manufactured by Geoprobe Systems. The Geoprobe 8040DT has been demonstrated to achieve deeper sampling depths than previously available direct push rigs and therefore provides a cost efficient method for the collection of groundwater samples at deeper depths. We contacted Geoprobe Systems and were given the names of three Contractors in the tri-state area that have purchased the 8040DT. We were able to obtain two quotations for the work proposed to be completed at the 123 Post Avenue site. The third firm, Glacier Drilling located in Connecticut, declined to provide a quotation for the work. A comparison of the quotations we received from Zebra Environmental and ARS Technologies is provided as Attachment A. Estimated cost to complete the work using hollow stem augers using Delta Well and Pump, one of our standby drillers who has previously done work at the site, is provided as Attachment B. Note that in addition to the cost savings associated with the drilling, no soil cuttings would be generated using the Geoprobe method and therefore the additional cost for disposal of the drill cuttings would not be incurred.

In order to reallocate the costs for the use of Zebra Environmental to perform the work, we have revised the Schedule 2.11s. The revised Schedule 2.11s are provided as Attachment C. The Cost Review Checklist is provided as Attachment D. The subcontract certification for Zebra Environmental will be provided once we have finalized our agreement with Zebra to perform the work. Note that, although the subcontractor, Zebra Environmental Corp., anticipates the work will take 18 day to complete, we have modified the number of day to 17 days in order to remain within the overall work assignment budget and eliminate the need for an amendment at this time.

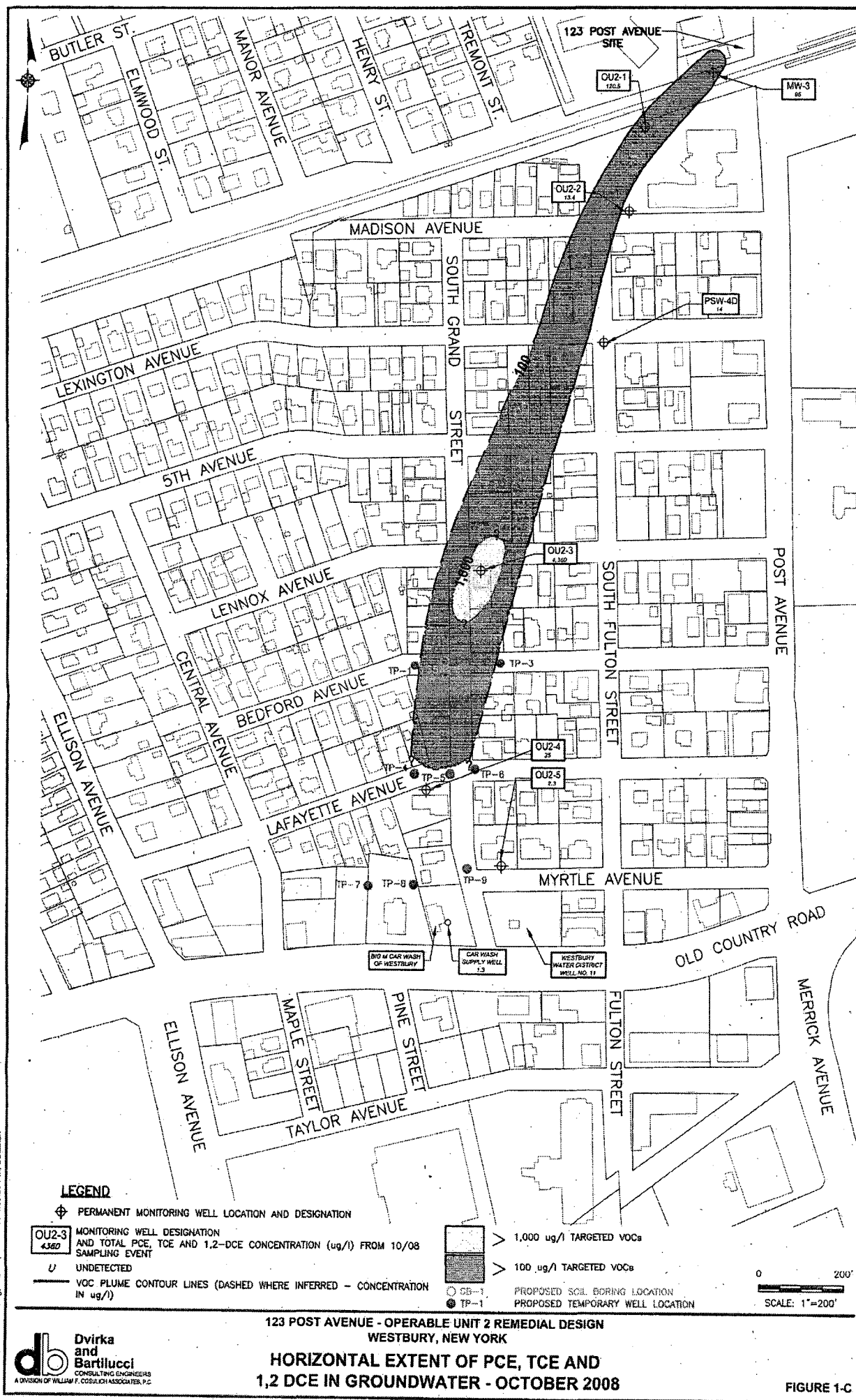
Once you have had the opportunity to review the enclosed information, please contact me at (516) 364-9890, Ext. 3060.

Very truly yours,


Maria Wright, P.E.

MDWt/jmy
Attachment(s)
cc: N. Putnam (NYSDEC)
♦2599\MDW020810LL.DOC(R02)

FIGURE



COST DOCUMENTATION

ATTACHMENT A

UNIT PRICE SUBCONTRACTS
GEOPROBE COMPARISON
123 Post Avenue Site - Operable Unit 2
Work Assignment No. D004446-21.A

<u>Item</u>	<u>Estimated Units</u>	<u>Zebra Environmental Reimbursement Rate</u>	<u>Total Estimated Cost</u>	<u>ARS Technologies Reimbursement Rate</u>	<u>Total Estimated Cost</u>
MOBILIZATION/DEMObILIZATION INCLUDING SITE SETUP/ BREAKDOWN, CLEANUP, REPAIR, INITIAL AND FINAL DECONTAM- INATION, PERMITS, UTILITY CLEARANCE AND LABOR FOR SITE RESTORATION	1	\$1,453.00 LUMP SUM	1,453.00	\$5,971.00 LUMP SUM	5,971.00
PER DIEM	17	\$240.00 PER DAY	\$4,080.00	\$375.00 PER DAY	6,375.00
CHARGEABLE EQUIPMENT RENTAL (PUMPS, ETC.)	3	\$295.00 PER WEEK	\$885.00	\$625.00 PER WEEK	1,875.00
GEOPROBE SYSTEM OR EQUIVALENT WITH ASSOCIATED TOOLS NECESSARY (W/ 2-PERSON CREW)					
8040DT PROBE	17	\$3,200.00 PER DAY	\$54,400.00	\$2,800.00 PER DAY	47,600.00
SUPPORT VEHICLE	17	(INCLUDED IN ABOVE COSTS)		\$250.00 PER DAY	4,250.00
GROUNDWATER SAMPLES	63	\$25.00 PER SAMPLE	\$1,575.00	\$100.00 PER SAMPLE	6,300.00
SOIL SAMPLES	36	\$30.00 PER SAMPLE	\$1,080.00	\$15.00 PER SAMPLE	540.00
PROBE HOLE ABANDONMENT	1790	(INCLUDED IN ABOVE COSTS)		\$2.00 PER WELL	3,580.00
55-GAL DRUMS	8	\$55.00 PER DRUM	\$440.00	\$55.00 PER DRUM	440.00
		TOTAL	\$63,913.00	TOTAL	\$76,931.00

ATTACHMENT B

SUMMARY
123 POST AVENUE OU2
Work Assignment Number: D004445-21

NAME OF SUBCONTRACTOR
Delta Well and Pump Company, Inc.

SERVICES TO BE PERFORMED

Drilling and Temporary Well Sampling

SUBCONTRACT
PRICE

\$78,590

MANAGEMENT
FEE

\$3,930

Item		Maximum Reimbursement Rate	Estimated No. of Units	Total Estimated Costs
1.	A. MOBILIZATION/DEMobilIZATION, B. CONSTRUCTION AND REMOVAL OF DECON PAD C. WELL/BORING SET-UP	Lump Sum Lump Sum Per Well/Boring	1 1 9	\$2,000.00 \$900.00 \$2,250.00
2	HOLLOW STEM AUGER DRILLING (1) 0-50 FEET IN DEPTH C. 3.25" ID HOLLOW STEM AUGERS (2) 50-100 FEET IN DEPTH B. 3.25" ID HOLLOW STEM AUGERS (3) 100-200 FEET IN DEPTH B. 3.25" ID HOLLOW STEM AUGERS	Lineal Foot Lineal Foot Lineal Foot	 450 450 450	 \$8,100.00 \$8,100.00 \$9,900.00
3.	BOREHOLE SAMPLING A. SPLIT SPOON SAMPLING (1) 2-INCH OD	Per Sample	21	\$840.00
4.	BOREHOLE ABANDONMENT B. 4 TO 6 INCH DIAMETER BOREHOLE	Per Foot	360	\$3,600.00
4	WELL SCREEN - SCHEDULE 40 PVC A. 1" ID B. 2" ID	Per Foot Per Foot	 	 \$0.00 \$0.00
5	WELL SCREEN - STAINLESS, SCHEDULE 5, TYPE 304 A. 2"ID	Per Foot		\$0.00
6	WELL RISER - SCHEDULE 40 PVC A. 1" ID B. 2" ID	Per Foot Per Foot	 	 \$0.00 \$0.00
7.	STAINLESS SCHEDULE 5 TYPE 304 A. 2"ID	Per Foot		\$0.00
6	WELL SCREEN SANDPACK MATERIAL	Bag (94 lbs.)		\$0.00
7.	BENTONITE A. PELLETS B. POWDER	5 Gallon Pail Bag (50 lbs.)	 	 \$0.00 \$0.00
8	GROUT B. PORTLAND CEMENT TYPE-II	Bag (94 lbs.)		\$0.00
9	INSTALLATION OF PROTECTIVE CASINGS 4" FLUSH MOUNT WITH LOCKING COVER, DRAIN HOLE SET IN A 2'X2' CONCRETE PAD EXTENDING AT LEAST 6 INCHES BELOW GROUND SURFACE KEYED ALIKE LOCKS	Per Casing Per Lock	 	 \$0.00 \$0.00
10	CONTAINERIZATION OF DRILLING MATERIAL, PURGE WATER AND STAGING (ON PALLETS) A. PROVIDE CLEAN EMPTY DOT APPROVED 55 GALLON DRUMS WITH SEALS, BUNGS, AND LIDS B. FILLING, MOVING, STAGING 55 GALLON DRUMS ON-SITE ON PALLETS C. MOVE FILLED DRUMS TO SECONDARY LOCATION WITHIN 1 MILE OF DRILL SITE	Per 55 Gallon Drum Per 55 Gallon Drum Per 55 Gallon Drum	100 100 100	\$5,000.00 \$3,000.00 \$3,500.00
11	WELL DEVELOPMENT (Purging from vertical profile wells) B. PUMP AND SURGE (submersible, centrifugal)	Per Hour	153	\$30,600.00
12	ON-SITE RESTORATION A. TOPSOIL B. GRASS SEEDING C. ASPHALT PAVING	Cubic Yard Square Yard Bag (60 lbs.)	 	 \$0.00 \$0.00 \$0.00
13	SPECIALTY ITEMS (Road and Hydrant Permits)	Per Permit	4	\$800.00
14	STANDBY TIME	Per Hour		\$0.00
15	GAMMA LOGGING (includes mobilization/demobilization of equipment)	Per Well		\$0.00
SUBTOTAL				\$78,590.00
SUBCONTRACT MANAGEMENT FEE				\$3,930
TOTAL				\$82,520

ATTACHMENT C

Schedule 2.11 (a)

Summary of Work Assignment Price
123 Post Avenue Remedial Design

Work Assignment Number D004446-21A

1.	Direct Salary Costs (Schedules 2.10 (a) and 2.11(b))	\$34,257
2.	Indirect Costs (Schedule 2.10 (g))	\$51,728
3.	Direct Non-Salary Costs (Schedules 2.11 (c) and (d))	\$7,027

Subcontract Costs

Cost-Plus-Fixed-Fee Subcontracts (Schedules 2.11(e))

	<u>Name of Subcontractor</u>	<u>Services To Be Performed</u>	<u>Subcontract Price</u>
4.	Total Cost-Plus-Fixed-Fee Subcontracts		\$0

Unit Price Subcontracts (Schedules 2.11(f))

	<u>Name of Subcontractor</u>	<u>Services To Be Performed</u>	<u>Subcontract Price</u>
	Zebra Environmental Corp.	Direct Push Services	\$67,255
	Mitkem Corporation (MBE)	Sample Analysis	\$8,987
	Con-Test Analytical Laboratory	Soil Vapor Analysis	\$2,535
	Jamaica Blueprint Co., Inc. (WBE)	Reproduction Services	\$0
5.	Total Unit Price Subcontracts		\$78,777
6.	Subcontract Management Fee		\$3,490
7.	Total Subcontract Costs (lines 4 + 5 + 6)		\$82,267
8.	Fixed Fee (Schedule 2.10 (h))		\$9,888
9.	Total Work Assignment Price (lines 1 + 2 + 3 + 7 + 8)		\$185,167 ✓

SCHEDULE 2.11 (b)
SUMMARY
123 Post Avenue Remedial Design
WORK ASSIGNMENT NUMBER D004446-21A

Average NSPE Wage Rates	IX	VIII	VII	VI	V	IV	III	II	I	TOTAL HOURS
as of January 1, 2006	\$61.60	\$54.95	\$51.32	\$45.44	\$36.10	\$33.51	\$29.09	\$23.13	\$18.10	
as of January 1, 2007	\$63.45	\$56.60	\$52.86	\$46.80	\$37.18	\$34.52	\$29.96	\$23.82	\$18.64	
as of January 1, 2008	\$65.91	\$58.80	\$54.91	\$48.62	\$38.63	\$35.86	\$31.13	\$24.75	\$19.37	
as of January 1, 2009	\$66.53	\$59.35	\$55.43	\$49.08	\$38.99	\$36.19	\$31.42	\$24.98	\$19.55	
as of January 1, 2010	\$68.22	\$60.85	\$56.83	\$50.32	\$39.98	\$37.11	\$32.21	\$25.61	\$20.04	
Task 1 - Pilot Test Program	6	0	0	62	46	50	212	30	0	406
Task 2 - Remedial Design	2	8	0	0	322	60	108	64	0	564
Task 3 - Pre-Award Services	0	0	0	0	0	0	0	0	0	0
Total 2006 Hours	4	0	0	50	24	10	80	22	0	190
Total 2007 Hours	2	0	0	12	22	40	132	8	0	216
Total 2008 Hours	0	0	0	0	0	0	0	0	0	0
Total 2009 Hours	2	2	0	0	68	0	84	52	0	208
Total 2010 Hours	0	6	0	0	254	60	24	12	0	356
TOTAL	8	8	0	62	368	110	320	94	0	970
Total Direct Labor Cost	\$506	\$484	\$0	\$2,834	\$14,491	\$3,943	\$9,694	\$2,306	\$0	\$34,257

SCHEDULE 2.11 (b)-1
SUMMARY
123 Post Avenue Remedial Design
WORK ASSIGNMENT NUMBER D004446-21A

Average NSPE Wage Rates	IX	VIII	VII	VI	V	IV	III	II	I	TOTAL HOURS
as of January 1, 2006	\$61.60	\$54.95	\$51.32	\$45.44	\$36.10	\$33.51	\$29.09	\$23.13	\$18.10	
as of January 1, 2007	\$63.45	\$56.60	\$52.86	\$46.80	\$37.18	\$34.52	\$29.96	\$23.82	\$18.64	
as of January 1, 2008	\$65.91	\$58.80	\$54.91	\$48.62	\$38.63	\$35.86	\$31.13	\$24.75	\$19.37	
as of January 1, 2009	\$66.53	\$59.35	\$55.43	\$49.08	\$38.99	\$36.19	\$31.42	\$24.98	\$19.55	
as of January 1, 2010	\$68.22	\$60.85	\$56.83	\$50.32	\$39.98	\$37.11	\$32.21	\$25.61	\$20.04	
Task 1	0.5	0	0	8	0	0	0	12	0	20.5
Task 2	0	0	0	0	0	0	0	19	0	19
Task 3	0	0	0	0	0	0	0	0	0	0
Total 2006 Hours	0.5	0	0	8	0	0	0	12	0	20.5
Total 2007 Hours	0	0	0	0	0	0	0	8	0	8
Total 2008 Hours	0	0	0	0	0	0	0	0	0	0
Total 2009 Hours	0	0	0	0	0	0	0	0	0	0
Total 2010 Hours	0	0	0	0	0	0	0	11	0	11
TOTAL	0.5	0	0	8	0	0	0	31	0	39.5
Total Direct Labor Cost	\$31	\$0	\$0	\$364	\$0	\$0	\$0	\$757 \$750	\$0	\$4,152 \$1,145

Dvirka & Bartilucci Consulting Engineers
123 Post Avenue Remedial Design
Work Assignment Number: D004446-21A

**BREAKDOWN OF ADMINISTRATIVE
LOE HOURS ON SCHEDULE 2.11(b-1)**

ADMIN ACTIVITY	WORK PLAN DEVELOPMENT														REVIEW WORK ASSIGNMENT (WA) PROGRESS													
	Conflict of Interest Checks						Prepare 2.11 Schedules								Conduct Progress Reviews						Prepare Monthly Report & Update Schedules							
NSPE	IX	VIII	VII	VI	V	IV	VIII	VII	VI	V	IV	III	II	I	VIII	VII	VI	V	IV	III	VIII	VII	VI	V	IV	III	II	I
TASK 1									6														2					
TASK 2																							0					
TASK 3																												
TOTAL	0	0	0	0	0	0	0	0	6	0	0	0	0	0	0	0	0	0	0	0	0	0	2	0	0	0	0	0

ADMIN ACTIVITY	REVIEW WORK ASSIGNMENT (WA) PROGRESS														CAP PREPARATION											
	MBE/WBE Activities								Program Management						Prepare Monthly Cost Control Report & CAP							Oversee CAP				
NSPE	VIII	VII	VI	V	IV	III	II	I	IX	VIII	VII	VI	V	IV	VIII	VII	VI	V	IV	III	II	I	IX	VIII	VII	VI
TASK 1									0.5												12					
TASK 2									0.5												19					
TASK 3																										
TOTAL	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	31	0	0.0	0	0	0

ADMIN ACTIVITY	MISCELLANEOUS																								
	Update NSPE List								Equipment Use and Inventory				Word Proc. and Report Preparation				Total Adm. LOE (hrs)								
NSPE	VIII	VII	VI	V	IV	III	II	I	IV	III	II	I	IV	III	II	I	IX	VIII	VII	VI	V	IV	III	II	I
TASK 1																	0.5			8				12	
TASK 2																	0.0			0				19	
TASK 3																	0.0			0				0	
TOTAL	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.5	0.0	0.0	8.0	0.0	0.0	0.0	31.0	0.0

SCHEDULE 2.11 (c)
DIRECT NON-SALARY COSTS
SUMMARY
123 Post Avenue Remedial Design
Work Assignment No. D004446-21A

ITEM	MAXIMUM REIMBURSEMENT RATE	UNIT	ESTIMATED NUMBER OF UNITS	TOTAL ESTIMATED COSTS
IN-HOUSE				
Outside Services*	\$200.00	set	0	\$0.00
Express Mail	\$25.00	package	5	\$125.00
Sample Shipping	\$50.00	shipment	23	\$1,150.00
Level D Safety Equipment	\$16.62	/person/day	15	\$249.30
TRAVEL				
Transportation (Personal Car)	\$0.445	mile	334	\$148.63
Transportation (Personal Car)	\$0.500	mile	408	\$204.00
Van Rental	\$100.00	day	12	\$1,200.00
Gas	\$50.00	day	8	\$400.00
TOTAL DIRECT NON-SALARY COSTS				\$3,476.93

* Includes photo finishing, slides and any other costs not associated with in-house capabilities.

SCHEDULE 2.11 (d) 3
EQUIPMENT
VENDOR RENTED
SUMMARY

123 Post Avenue Remedial Design
Work Assignment No. D004446-21A

ITEM	MAXIMUM REIMBURSEMENT RATE	TIME PERIOD	ESTIMATED USAGE (period of time)	ESTIMATED USAGE COST (Col. 2 X 3)
Century OVA 128	\$125.00	day	0	\$0.00
Photovac Microtip	\$125.00	day	0	\$0.00
MIE Miniram Digital Dust Indicator	\$200.00	week	0	\$0.00
Horiba U22 Water Quality Meter	\$100.00	day	22	\$2,200.00
Solinst Water Level Indicator	\$25.00	day	0	\$0.00
Generator	\$60.00	day	0	\$0.00
Peristaltic Pump	\$50.00	day	6	\$300.00
Grunfos Pump	\$125.00	day	0	\$0.00
GoMac Helium Meter	\$75.00	day	3	\$225.00
			Total	\$2,725.00

SCHEDULE 2.11 (d) 4
SUMMARY
EXPENDABLE SUPPLIES
123 Post Avenue Remedial Design
Work Assignment No. D004446-21A

ITEM	ESTIMATED QUANTITY	UNITS	UNIT COST	TOTAL BUDGETED COST (COL. 2 X 3)
Polyethylene tubing	2500	feet	\$0.25	\$625.00
Disposable bailers	0.0	case of 24	\$200.00	\$0.00
			TOTAL	\$625.00

SCHEDULE 2.11 (d) 5
CONSUMABLE SUPPLIES
SUMMARY
 123 Post Avenue Remedial Design
 Work Assignment No. D004446-21A

ITEM	ESTIMATED QUANTITY	UNIT COST	TOTAL BUDGETED COST (COL. 2 X 3)
Miscellaneous Supplies	2	\$100.00	\$200.00
		TOTAL	\$200.00



**SCHEDULE 2.11 (f) 1
UNIT PRICE SUBCONTRACTS
SUMMARY
123 Post Avenue Remedial Design
Work Assignment No. D004446-21A**

*- cont'd sub
- new task/work
added (quotes
provided)*

<u>NAME OF SUBCONTRACTOR</u>	<u>SERVICES TO BE PERFORMED</u>	<u>SUBCONTRACT PRICE</u>	<u>MANAGEMENT FEE</u>
Zebra Environmental Corporation	Direct Push Services	\$67,255	\$3,363

<u>Item</u>	<u>Maximum Reimbursement Rate</u>	<u>Estimated No. of Units</u>	<u>Total Estimated Costs</u>
Groundwater Probes			
1a Mobilization and demobilization, including site set-up, breakdown, clean-up, repair and site restoration.	\$400 Lump sum	1 Event	\$400
b Non-mobile decontamination pad	\$105 Lump sum	0 Pad	\$0
2 Well set-up	\$10 Per location	0 Locations	\$0
3 Geoprobe System			
Truck/Van/ATV-mounted unit	\$1,150 Per 8-hour day	2 Days	\$2,300
Second crew member	\$195 Per 8-hour day	0 Days	\$0
4 Overtime charge for on-site work	\$75 Per person hour	0 Person hours	\$0
5 Soil vapor probe installation.	\$5 Per foot	0 Feet	\$0
6 Groundwater sampling	\$9 Per sample	0 Samples	\$0
7 Flush-mounted manholes	\$55 Per manhole	0 Manholes	\$0
8 Portland cement	\$16 Per bag	0 Bags	\$0
9 Bentonite powder	\$35 Per bag	0 Bags	\$0
10 Asphalt patch	\$8 Per bag	0 Bags	\$0
11 Standby time	\$75 Per hour	0 Hours	\$0
Deep Groundwater/Soil Investigation			
1a Mobilization and demobilization, including site set-up, breakdown, clean-up, repair and site restoration. Non-mobile decontamination pad	\$2,095 Lump sum	1 Event	\$2,095
2 Geoprobe System			
8040	\$3,200 Per 8-hour day	17 Days	\$54,400
per diem	\$240 Per day	17 Days	\$4,080
3 Overtime charge for on-site work	\$75 Per person hour	0 Person hours	\$0
4 Groundwater sampling	\$25 Per sample	63 Samples	\$1,575
5 Soil Sampling	\$30 Per sample	36 Samples	\$1,080
6 Pump rental	\$295 Per week	3 Weeks	\$885
Drums	\$55 Per drum	8 Drums	\$440
SUBTOTAL			\$67,255
SUBCONTRACT MANAGEMENT FEE			\$3,363
TOTAL			\$70,618

**SCHEDULE 2.11 (f) 2
UNIT PRICE SUBCONTRACTS
SUMMARY
123 Post Avenue Remedial Design
Work Assignment No. D004446-21A**

*- cont'd sub
- on standby
- decreased cost*

NAME OF SUBCONTRACTOR	SERVICES TO BE PERFORMED	SUBCONTRACT PRICE		MANAGEMENT FEE
Mitkem Corporation	Sample Analysis	\$8,987		
<u>Item</u>	<u>Method</u>	<u>Maximum Reimbursement Rate</u>	<u>Estimated Units</u>	<u>Total Estimated Cost</u>
<u>Groundwater</u>				
VOCs (4-week turnaround time)	EPA SOW OLM04.2 (6/00 ASP)	\$74.00 per sample	54	\$3,996.00
Target Analyte List metals	EPA SOW ILM04.0 (6/00 ASP)	\$68.00 per sample	5	\$340.00
Chloride		\$15.00 per sample	5	\$75.00
VOCs (24-hour turnaround time)	EPA SOW OLM04.2 (6/00 ASP)	\$148.00 per sample	21	\$3,108.00
<u>Soil Vapor/Ambient Air</u>				
VOCs	USEPA Method TO-15	\$270.00 per sample	0	\$0.00
<u>QA/QC Samples</u>				
<u>Groundwater</u>				
Matrix Spike/Matrix Spike Duplicate/Matrix Spike Blank				
VOCs (4-week turnaround time)	EPA SOW OLM04.2 (6/00 ASP)	\$74.00 per sample	6	\$444.00
Target Analyte List metals	EPA SOW ILM04.0 (6/00 ASP)	\$68.00 per sample	2	\$136.00
<u>Trip Blank</u>				
VOCs (4-week turnaround time)	EPA SOW OLM04.2 (6/00 ASP)	\$74.00 per sample	12	\$888.00
<u>Soil Vapor/Ambient Air</u>				
Blind Duplicate				
VOCs	USEPA Method TO-15	\$270.00 per sample	0	\$0.00
SUBTOTAL				\$8,987.00
SUBCONTRACT MANAGEMENT FEE				\$0
TOTAL				\$8,987.00 ✓

SCHEDULE 2.11 (f) 3
UNIT PRICE SUBCONTRACTS
SUMMARY
 123 Post Avenue Remedial Design
 Work Assignment No. D004446-21A

- on standby
 - work already
 done in 2006

<u>NAME OF SUBCONTRACTOR</u>	<u>SERVICES TO BE PERFORMED</u>	<u>SUBCONTRACT PRICE</u>	<u>MANAGEMENT FEE</u>
Con-Test Analytica	Soil Vapor Sampling	\$2,535	\$127

<u>Item</u>	<u>Maximum Reimbursement Rate</u>	<u>Estimated No. of Units</u>	<u>Total Estimated Costs</u>
Soil Vapor/Ambient Air VOCs	USEPA Method TO-15 \$195.00 per sample	13	\$2,535.00
SUBTOTAL			\$2,535
SUBCONTRACT MANAGEMENT FEE			\$127
TOTAL			\$2,662 ✓

Project Name: 123 Post Avenue Remedial Design
 Work Assignment No.: D004446-21A
 Task No./Name: All Tasks
 Complete: 0.00%

SCHEDULE 2.11 (g)
 SUMMARY

Page 1 of 5
 Date Prepared:
 Billing Period:
 Invoice No.:



MONTHLY COST CONTROL REPORT
 SUMMARY OF FISCAL INFORMATION

Expenditure Category	A Costs Claimed This Period	B Paid To Date	C Total Disallowed To Date	D Total Costs Incurred To Date (A+B+B1)	E Estimated Costs To Completion	F Total Work Assignment Price (A+B+E)	G Approved Budget	H Estimated Under/(Over) (G-F)
1. Direct Salary Costs	0.00	0.00	0.00	0.00	0.00	0.00	\$34,257	0.00
2. Indirect	0.00	0.00	0.00	0.00	0.00	0.00	\$51,728	0.00
3. Subtotal Direct Salary Costs and Indirect Costs	0.00	0.00	0.00	0.00	0.00	0.00	\$85,985	0.00
4. Travel	0.00	0.00	0.00	0.00	0.00	0.00	\$1,953	0.00
5. Other Non-Salary Costs	0.00	0.00	0.00	0.00	0.00	0.00	\$5,074	0.00
6. Subtotal Direct Non-Salary Costs	0.00	0.00	0.00	0.00	0.00	0.00	\$7,027	0.00
7. Subcontractors	0.00	0.00	0.00	0.00	0.00	0.00	\$78,777	0.00
7a. Management Fee	0.00	0.00	0.00	0.00	0.00	0.00	\$3,490	0.00
8. Total Work Assignment Cost	0.00	0.00	0.00	0.00	0.00	0.00	\$175,278	0.00
9. Fixed Fee	0.00	0.00	0.00	0.00	0.00	0.00	\$9,888	0.00
10. Total Work Assignment Price	0.00	0.00	0.00	0.00	0.00	0.00	\$185,167	0.00


Project Manager (Engineer) _____

Date _____

Project Name: 123 Post Avenue Remedial Design
Work Assignment No.: D004446-21A

SCHEDULE 2.11 (g) SUPPLEMENTAL
MONTHLY COST CONTROL REPORT
SUBCONTRACTS

Page 5 of 5
Date Prepared:
Billing Period:
Invoice No.:



<u>Subcontract Name</u>	<u>Subcontract Costs Claimed This Application Incl. Resubmittals</u>	<u>Subcontract Costs Approved for Payment on Previous Application</u>	<u>Total Subcontract costs to Date (A plus B)</u>	<u>Subcontract Approved Budget</u>	<u>Management Fee Budget</u>	<u>Management Fee Paid</u>	<u>Total Costs To Date</u>
1. Zebra Environmental Corp.	\$0.00	\$0.00	\$0.00	\$67,255	\$3,363		
2. Mitkem Corporation	\$0.00	\$0.00	\$0.00	\$8,987	\$0		
3. Con-Test Analytical Laboratory	\$0.00	\$0.00	\$0.00	\$2,535	\$127		
4. Jamaica Blueprint Co., Inc.	\$0.00	\$0.00	\$0.00	\$0	\$0		
Total				\$78,777	\$3,490		

Project Name: 123 Post Avenue Remedial Design
 Work Assignment No.: D004446-21A
 Task No./Name: 1/Pilot Test Program
 Complete: 0.00%

SCHEDULE 2.11 (g)

Page 2 of 5
 Date Prepared:
 Billing Period:
 Invoice No.:

MONTHLY COST CONTROL REPORT
 SUMMARY OF FISCAL INFORMATION

Expenditure Category	A Costs Claimed This Period	B Paid To Date	C Total Disallowed To Date	D Total Costs - Incurred To Date (A+B+B1)	E Estimated Costs To Completion	F Total Work Assignment Price (A+B+E)	G Approved Budget	H Estimated Under/(Over) (G-F)
1. Direct Salary Costs	0.00	0.00	0.00	0.00	0.00	0.00	\$13,589	0.00
2. Indirect	0.00	0.00	0.00	0.00	0.00	0.00	\$20,519	0.00
3. Subtotal Direct Salary Costs and Indirect Costs	0.00	0.00	0.00	0.00	0.00	0.00	\$34,107	0.00
4. Travel	0.00	0.00	0.00	0.00	0.00	0.00	\$1,749	0.00
5. Other Non-Salary Costs	0.00	0.00	0.00	0.00	0.00	0.00	\$3,050	0.00
6. Subtotal Direct Non-Salary Costs	0.00	0.00	0.00	0.00	0.00	0.00	\$4,799	0.00
7. Subcontractors	0.00	0.00	0.00	0.00	0.00	0.00	\$78,777	0.00
7a. Management Fee	0.00	0.00	0.00	0.00	0.00	0.00	\$3,490	0.00
8. Total Work Assignment Cost	0.00	0.00	0.00	0.00	0.00	0.00	\$121,172	0.00
9. Fixed Fee	0.00	0.00	0.00	0.00	0.00	0.00	\$3,922	0.00
10. Total Work Assignment Price	0.00	0.00	0.00	0.00	0.00	0.00	\$125,095	0.00

Project Manager (Engineer) _____

Date _____

Project Name: 123 Post Avenue Remedial Design
 Work Assignment No.: D004446-21A
 Task No./Name: 2/Remedial Design
 Complete: 0.00%

SCHEDULE 2.11 (g)

Page 3 of 5
 Date Prepared:
 Billing Period:
 Invoice No.:

MONTHLY COST CONTROL REPORT
 SUMMARY OF FISCAL INFORMATION

Expenditure Category	A Costs Claimed This Period	B Paid To Date	C Total Disallowed To Date	D Total Costs Incurred To Date (A+B+C)	E Estimated Costs To Completion	F Total Work Assignment Price (A+B+E)	G Approved Budget	H Estimated Under/(Over) (G-F)
1. Direct Salary Costs	0.00	0.00	0.00	0.00	0.00	0.00	\$20,668	0.00
2. Indirect	0.00	0.00	0.00	0.00	0.00	0.00	\$31,209	0.00
3. Subtotal Direct Salary Costs and Indirect Costs	0.00	0.00	0.00	0.00	0.00	0.00	\$51,877	0.00
4. Travel	0.00	0.00	0.00	0.00	0.00	0.00	\$204	0.00
5. Other Non-Salary Costs	0.00	0.00	0.00	0.00	0.00	0.00	\$2,024	0.00
6. Subtotal Direct Non-Salary Costs	0.00	0.00	0.00	0.00	0.00	0.00	\$2,228	0.00
7. Subcontractors	0.00	0.00	0.00	0.00	0.00	0.00	\$0	0.00
7a. Management Fee	0.00	0.00	0.00	0.00	0.00	0.00	\$0	0.00
8. Total Work Assignment Cost	0.00	0.00	0.00	0.00	0.00	0.00	\$54,106	0.00
9. Fixed Fee	0.00	0.00	0.00	0.00	0.00	0.00	\$5,966	0.00
10. Total Work Assignment Price	0.00	0.00	0.00	0.00	0.00	0.00	\$60,072	0.00

Project Manager (Engineer) _____

Date _____

Project Name: 123 Post Avenue Remedial Design
 Work Assignment No.: D004446-21A
 Task No./Name: 3/Pre-Award Services
 Complete: 0.00%

SCHEDULE 2.11 (g)

Page 4 of 5
 Date Prepared:
 Billing Period:
 Invoice No.:

MONTHLY COST CONTROL REPORT
 SUMMARY OF FISCAL INFORMATION

Expenditure Category	A Costs Claimed This Period	B Paid To Date	C Total Disallowed To Date	D Total Costs Incurred To Date (A+B+B1)	E Estimated Costs To Completion	F Total Work Assignment Price (A+B+E)	G Approved Budget	H Estimated Under/(Over) (G-F)
1. Direct Salary Costs	0.00	0.00	0.00	0.00	0.00	0.00	\$0	0.00
2. Indirect	0.00	0.00	0.00	0.00	0.00	0.00	\$0	0.00
3. Subtotal Direct Salary Costs and Indirect Costs	0.00	0.00	0.00	0.00	0.00	0.00	\$0	0.00
4. Travel	0.00	0.00	0.00	0.00	0.00	0.00	\$0	0.00
5. Other Non-Salary Costs	0.00	0.00	0.00	0.00	0.00	0.00	\$0	0.00
6. Subtotal Direct Non-Salary Costs	0.00	0.00	0.00	0.00	0.00	0.00	\$0	0.00
7. Subcontractors	0.00	0.00	0.00	0.00	0.00	0.00	\$0	0.00
7a. Management Fee	0.00	0.00	0.00	0.00	0.00	0.00	\$0	0.00
8. Total Work Assignment Cost	0.00	0.00	0.00	0.00	0.00	0.00	\$0	0.00
9. Fixed Fee	0.00	0.00	0.00	0.00	0.00	0.00	\$0	0.00
10. Total Work Assignment Price	0.00	0.00	0.00	0.00	0.00	0.00	\$0	0.00

Project Manager (Engineer) _____

Date _____

Schedule 2.11 (h)

Project Name: 123 Post Avenue Remedial Design
Work Assignment No.: D004446-21A

Date Prepared:
Billing Period
Invoice No.



Monthly Cost Control Report
Summary of Labor Hours
Expended to Date/Estimated To Completion

NSPE Labor Classification	IX EXP/EST	VIII EXP/EST	VII EXP/EST	VI EXP/EST	V EXP/EST	IV EXP/EST	III EXP/EST	I & II EXP/EST	TOTAL NUMBER OF DIRECT LABOR HOURS EXP/EST
Task 1	0/ 6	0/ 0	0/ 0	0/ 62	0/ 46	0/ 50	0/ 212	0/ 30	0/ 406
Task 2	0/ 2	0/ 8	0/ 0	0/ 0	0/ 322	0/ 60	0/ 108	0/ 64	0/ 564
Task 3	0/ 0	0/ 0	0/ 0	0/ 0	0/ 0	0/ 0	0/ 0	0/ 0	0/ 0
Total 2006 Hours	0/ 4	0/ 0	0/ 0	0/ 50	0/ 24	0/ 10	0/ 80	0/ 22	0/ 190
Total 2007 Hours	0/ 2	0/ 0	0/ 0	0/ 12	0/ 22	0/ 40	0/ 132	0/ 8	0/ 216
Total 2008 Hours	0/ 0	0/ 0	0/ 0	0/ 0	0/ 0	0/ 0	0/ 0	0/ 0	0/ 0
Total 2009 Hours	0/ 2	0/ 2	0/ 0	0/ 0	0/ 68	0/ 0	0/ 84	0/ 52	0/ 208
Total 2010 Hours	0/ 0	0/ 6	0/ 0	0/ 0	0/ 254	0/ 60	0/ 24	0/ 12	0/ 356
TOTAL HOURS	0/ 8	0/ 8	0/ 0	0/ 62	0/ 368	0/ 110	0/ 320	0/ 94	0/ 970

ATTACHMENT D

Cost Review for Work Plan or Amendment

Contractor Name: Dvirka and Bartilucci Consulting Engineers
WA # and Name: D004446-21A/123 Post Avenue

Date: 2/18/10
Reviewer: M. Wright

	GENERAL COST REVIEW CHECKLIST	Yes	No	Comments
	A complete set of 2.11 Schedules (a) through (h) is attached.	X		
	Budget package includes a cover letter and an M/WBE Utilization Plan.	X		The contract wide M/WBE Utilization Plan will be revised to incorporate this budget addendum. A copy of the plan will be sent to DEC under separate cover.
1.	Schedule 2.11(h) - Direct Labor			
	Average reimbursement rates are used for each year. Future years escalate 3%.	X		
	Hours are segregated by year.	X		
	Total cost for each NSPE level is shown.	X		
	Total direct labor costs match amounts on Schedule 2.11(a).	X		
	The Principal's (NSPE level 9) labor hours charged to WA are less than 2% of the total.	X		
	Total labor hours match hours on Schedule 2.11(h).	X		
2.	Schedule 2.11(b-1) - Direct Administrative Labor Hours			
	Breakdown of Schedule 2.11(b-1) is reasonable, i.e., admin LOE is within acceptable guideline of <4% of overall WA LOE. Justification is attached for any exceedance.	X		
3.	Schedules 2.11(c) and (d) - Direct Non-Salary Costs			
	Rates listed in Schedule 2.11(c) are consistent with contract.	X		
	Rates for in-house and/or misc. costs match contract Schedule 2.10(b) or 2.10(c)2.	X		
	Quotes are included for any non-contract item (including equipment purchases & rentals; excluding air fare) >\$1k. If sufficient number of quotes are unavailable, an engineer's estimate must be provided. The low quote has been selected.	X		
	All costs are allowable, e.g., office telephone and office shipping cannot be reimbursed as a direct cost if they're included in ICR. Field costs must be receipted.	X		
	Appropriate lodging/per diem/mileage rates are used.			Not applicable.
	Schedule 2.11(d)1 - All equipment purchased is supported by cost justification that's acceptable to the CM. Equipment is to be maintained by the contractor or turned over to DEC, and it must be added to contractor's inventory list (include a revised copy).			Not applicable.
	Schedule 2.11(d)2 - Rates for consultant-owned equipment match Schedule 2.10(c).			Not applicable.

3.	Schedules 2.11(c) and (d) - Direct Non-Salary Costs (continued)		
	Schedule 2.11(d)4 - Includes equipment to be used only on this WA (such as a blower purchased to upgrade SVE system).	X	
	Other direct costs (no. of field days, lodging, and field equipment usage) are reasonable based on field work schedule or supporting documentation.	X	
	Total of direct non-salary costs matches the amount on Schedule 2.11(a).	X	
4.	Schedule 2.11(e) - Cost-plus-fixed-fee subcontracts		
	Proposed subconsultant is on standby or has DEC-approved rates with another standby consultant. Otherwise, financial information required for cost analysis must be submitted.		Not applicable.
	Standby subcontract is active and rates (salary, direct and indirect costs, and fixed fee) match contract rates.		Not applicable.
	A breakdown of direct non-salary costs is provided.		Not applicable.
	Total subcontract cost matches amount on Schedule 2.11(a).		Not applicable.
	Subcontractor has justified/obtained adequate quotes for any further subcontracted work.		Not applicable.
	Subcontractor certification(s) have been submitted.		Not applicable.
5.	Schedule 2.11(f) - Unit Price Subcontracts		
	There are quotes for non-standby subcontracts >\$1k. Bids are comparable (quantities and items) and provide unit costs plus job total. If sufficient number of quotes are unavailable, an engineer's estimate must be provided. The low quote has been selected.	X	
	<i>Standby Drillers</i> (Two phase process) - Quotes from all standbys are attached. Proper unit costs and mobilization/demobilization costs are used. The low quote has been selected. Explanation for declinations has been provided.		Not applicable.
	<i>Standby Labs and Data Validators</i> (rotate use) - Unit costs match those in contract(s).	X	
	<i>M/WBE</i> - Cost reasonableness of sole/single source M/WBE contracts <\$10k are documented by an engineer's estimate.		Not applicable.
	Cost reasonableness of sole/single source contracts are documented by an engineer's estimate or other cost comparisons (e.g., historical costs, pricing guides).	X	
	Placeholders are used only for non-standby subcontractors.		Not applicable.
	Cost reasonableness of placeholder subcontractors are documented by an engineer's estimate or other cost comparisons.		Not applicable.
	Correct management fee is calculated only on non-professional unit priced subs >\$10k and M/WBE firms from \$1. (Management fee is not allowed on professional engineering firms, architects, or surveyors unless the contract specifically allows it.)	X	
	Total subcontract costs match the amounts on Schedule 2.11(a).	X	
	Justification is attached for subcontracts >\$100,000 supporting a determination not to design and competitively bid the work. Response-type activities (drum removals, other construction-type activities) must be competitively bid unless otherwise approved.		Not applicable.

5.	Schedule 2.11(f) - Unit Price Subcontracts (continued)		
	Subcontractor certification(s) have been submitted.		Subcontract certification for Zebra Environmental Corp. will be submitted once an amendment to current contract is in place.
6.	Schedule 2.11(g) - Cost Control Report		
	Individual 2.11(g)s equal Summary 2.11(g) and costs match those on 2.11(a).	X	
7.	Schedule 2.11(g) Supplement(s) - Cost Control Report (subs)		
	Schedules include all applicable subcontracts and management fees (for unit price only).	X	
8.	Schedule 2.11(a)		
	Rates for indirect and fixed fee match contract rates.	X	
	All numbers rolled up into Schedule 2.11(a) add up.	X	

Rev. 6/17/09

Subcontract Solicitation Record and Certification for Standby Engineering Contracts

NEW YORK STATE DEPARTMENT OF ENVIRONMENTAL CONSERVATION
Division of Environmental Remediation

Site/Spill Name 123 Post Avenue Site – OU2

Site/Spill Number 1-30-088 Contract/WA # D004446-21A

NOTE: Standby Contractor must obtain Contract Manager approval prior to award of subcontract.

Check the appropriate box and complete the chart below:

☐ Standby cost-plus-fixed-fee subconsultant selected on rotational basis.

☒ Standby laboratory or data validator selected on rotational basis. If the work includes site-specific or other items which are not listed in the standby contract, obtain and attach complete quotes from all standby subcontractors. (Declinations to bid must be explained in the attached back-up.)

☐ Standby driller selected as lowest quote: Obtain and attach complete quotes from all standby drillers, including mob/demob costs and any site-specific items. (Declinations to bid must be explained in the attached back-up.)

For other unit-price or lump-sum subcontracting work, obtain the necessary number of quotes and complete the chart below:

☐ Total estimated costs are less than \$10,000; three responsive quotes must be obtained (verbal is allowed).

☐ Total estimated costs range from \$10,000 to \$20,000; three **written** responsive quotes must be obtained and attached.

☐ Total estimated costs are over \$20,000; five **written** responsive quotes must be obtained and attached.

Note: If unable to obtain a sufficient number of quotes, obtain and attach a minimum of 2 responsive quotes. Attach documentation of attempts made to obtain additional quotes **and** an engineer's estimate to support cost reasonableness.

☐ Single/sole source procurement (including the usage of an M/WBE firm with estimated costs under \$10,000). Complete the chart below and attach rationale for selecting subcontractor along with the basis for determining cost reasonableness (e.g., an engineer's estimate or one comparative quote).

<i>Subcontractor/Subconsultant</i>	<i>Phone Number</i>	<i>Date</i>	<i>Price Quote</i>
Mitkem Laboratories	401-732-3400	2//18/10	\$8,987.00

On behalf of the Contractor named below, I hereby certify that the subcontract named below was procured in accordance with the terms of the prime contract and all applicable requirements of the State of New York. I also hereby certify that the executed subcontract includes all appropriate language and all required documents were completed appropriately and were acceptable. Specifically, I hereby certify the following:

1. The Contractor has determined that the subcontractor is qualified. A statement of qualifications for the subcontractor is maintained. It includes a statement of compliance with all licenses, certifications and permits, if applicable. (Note: For laboratories, this can be determined at <http://www.wadsworth.org/labservices.htm>).
2. The Contractor has determined the costs are reasonable. A procurement record supporting the determination is maintained.
3. The Contractor performed a Conflict of Interest (COI) check, if applicable, and documented it in writing. Refer to Appendix B, clause III (e) for applicability. (Note that for standby subcontractors selected on a WA, a new subcontract certification must be submitted.)
4. For subcontracts in excess (or anticipated to be in excess) of \$10,000, the subcontractor submitted an acceptable New York State Vendor Responsibility Questionnaire. Information related to vendor responsibility can be found at <http://www.osc.state.ny.us/agencies/gbull/g221.htm>
5. The subcontract includes pass down requirements from Appendix B of the prime contract related to Minority and Women Business Enterprises (M/WBE) and Conflict of Interest (COI).
6. The subcontract includes the termination clause required in the prime contract.
7. The subcontract does not include "pay if paid" type clauses which are unenforceable in New York State.
8. Insurance carriers associated with the subcontract are licensed to do business in New York State. The State of New York and the Department of Environmental Conservation are named as additional insurers on the policies. Insurance limits meet prime contract requirements. (Note that licensed insurance can be determined at <http://www.ins.state.ny.us> and Best's Rating can be determined at <http://www.ambest.com>). Pollution liability insurance (for example, drilling subcontractors) and professional liability insurance (for example, subcontracts for professional services and laboratories) are included as appropriate.
9. Documentation supporting this certification is maintained by the Contractor and will be provided within 10 days of any request.

Manawright
Signature of Contractor's Authorized Representative

2/18/10
Date

Dvirka and Bartilucci Consulting Engineers

D004446-21A

Contractor Name

Contract/WA No.

Mitkem Laboratories

Subcontractor Name

Rev. 02/11/10

Subcontract Solicitation Record and Certification for Standby Engineering Contracts

NEW YORK STATE DEPARTMENT OF ENVIRONMENTAL CONSERVATION Division of Environmental Remediation

Site/Spill Name 123 Post Avenue Site – OU2

Site/Spill Number 1-30-088 Contract/WA # D004446-21A

NOTE: Standby Contractor must obtain Contract Manager approval prior to award of subcontract.

Check the appropriate box and complete the chart below:

- ☐ Standby cost-plus-fixed-fee subconsultant selected on rotational basis.
- ☐ Standby laboratory or data validator selected on rotational basis. If the work includes site-specific or other items which are not listed in the standby contract, obtain and attach complete quotes from all standby subcontractors. (Declinations to bid must be explained in the attached back-up.)
- ☐ Standby driller selected as lowest quote: Obtain and attach complete quotes from all standby drillers, including mob/demob costs and any site-specific items. (Declinations to bid must be explained in the attached back-up.)

For other unit-price or lump-sum subcontracting work, obtain the necessary number of quotes and complete the chart below:

- ☐ Total estimated costs are less than \$10,000; three responsive quotes must be obtained (verbal is allowed).
- ☐ Total estimated costs range from \$10,000 to \$20,000; three **written** responsive quotes must be obtained and attached.
- ☐ Total estimated costs are over \$20,000; five **written** responsive quotes must be obtained and attached.

Note: If unable to obtain a sufficient number of quotes, obtain and attach a minimum of 2 responsive quotes. Attach documentation of attempts made to obtain additional quotes **and** an engineer's estimate to support cost reasonableness.

- ☒ Single/sole source procurement (including the usage of an M/WBE firm with estimated costs under \$10,000). Complete the chart below and attach rationale for selecting subcontractor along with the basis for determining cost reasonableness (e.g., an engineer's estimate or one comparative quote).

<i>Subcontractor/Subconsultant</i>	<i>Phone Number</i>	<i>Date</i>	<i>Price Quote</i>
Zebra Environmental Corp.	516-596-6300	1/13/10	\$63,913.00
ARS Technologies, Inc.	510-868-0177	1/12/10	\$76,931.00
Delta Well and Pump Co. Inc.	631-981-2255	Standby Contract Rates 12/20/06	\$78,590.00 (using standard drilling methods)

On behalf of the Contractor named below, I hereby certify that the subcontract named below was procured in accordance with the terms of the prime contract and all applicable requirements of the State of New York. I also hereby certify that the executed subcontract includes all appropriate language and all required documents were completed appropriately and were acceptable. Specifically, I hereby certify the following:

1. The Contractor has determined that the subcontractor is qualified. A statement of qualifications for the subcontractor is maintained. It includes a statement of compliance with all licenses, certifications and permits, if applicable. (Note: For laboratories, this can be determined at <http://www.wadsworth.org/labservices.htm>).
2. The Contractor has determined the costs are reasonable. A procurement record supporting the determination is maintained.
3. The Contractor performed a Conflict of Interest (COI) check, if applicable, and documented it in writing. Refer to Appendix B, clause III (e) for applicability. (Note that for standby subcontractors selected on a WA, a new subcontract certification must be submitted.)
4. For subcontracts in excess (or anticipated to be in excess) of \$10,000, the subcontractor submitted an acceptable New York State Vendor Responsibility Questionnaire. Information related to vendor responsibility can be found at <http://www.osc.state.ny.us/agencies/gbull/g221.htm>
5. The subcontract includes pass down requirements from Appendix B of the prime contract related to Minority and Women Business Enterprises (M/WBE) and Conflict of Interest (COI).
6. The subcontract includes the termination clause required in the prime contract.
7. The subcontract does not include "pay if paid" type clauses which are unenforceable in New York State.
8. Insurance carriers associated with the subcontract are licensed to do business in New York State. The State of New York and the Department of Environmental Conservation are named as additional insurers on the policies. Insurance limits meet prime contract requirements. (Note that licensed insurance can be determined at <http://www.ins.state.ny.us> and Best's Rating can be determined at <http://www.ambest.com>). Pollution liability insurance (for example, drilling subcontractors) and professional liability insurance (for example, subcontracts for professional services and laboratories) are included as appropriate.
9. Documentation supporting this certification is maintained by the Contractor and will be provided within 10 days of any request.

Manawright
Signature of Contractor's Authorized Representative

3/25/10
Date

Dvirka and Bartilucci Consulting Engineers
Contractor Name

D004446-21A
Contract/WA No.

Zebra Environmental Corp.
Subcontractor Name

Rev. 02/11/10



New York State Department of Environmental Conservation

MEMORANDUM

To: **File**
 From: Lisa Lewis, Contract Manager, CPS, BPM, DER
 Subject: Review of Cost Sections for CONSULTANT Work Assignment #D00XXXX-XX Final Work Plan for the _____ Site
 Date: _____, 2006

4446-21

123 Post Ave

I have reviewed the cost sections for the above referenced WA. The cost sections appear to be reasonable and satisfactorily completed. The following checklist outlines the review process and review comments. Please see me if you have any questions.

GENERAL COST REVIEW CHECKLIST		Yes	No	Comments
	Are the costs for Task 1 and the total WA within the budget on the Conceptual Approval?	X		Transferred WA
	Is there a complete set of 2.11 Schedules (a) through (h)?	X		W/notes
1.	Schedule 2.11(a)			
	Do rates for indirect costs and fixed-fee match contract rates? (Are sliding rates applicable?)	X		
	Do numbers add up?	X		
2.	Schedule 2.11(b) - Direct Labor Hours			
	Are average reimbursement rates used for each year? (Check rates in contract vs. time period of WA.)	X		
	Are hours segregated by year?	X		
	Is total cost for each NSPE level shown?	X		
	Does total direct labor costs match amount on Schedule 2.11(a)?	X		
	Do total hours match hours on Schedule 2.11(h)?	X		
	Is the Principal's (NSPE level 9) time less than 2% of total time?	X		
3.	Schedule 2.11(b-1) - Direct Administrative Labor Hours			
	Is breakdown of Schedule 2.11(b-1) reasonable (i.e. within the acceptable guidelines of 4% administrative hours and 2% for Principal, both out of total project hours)? If not, did Consultant submit acceptable justification?	X		
4.	Schedules 2.11(c) and (d) - Direct Non-Salary			
	Are rates listed in Schedule 2.11(c) consistent with contract?	X		
	Are rates for in-house and/or miscellaneous costs in their contract (Schedule 2.10(b))? If not, are quotes included for any item (including equipment purchases & rentals; excluding air fare) >\$1k? (For estimated cost, not unit cost.)		X	
	Are there any unallowable costs? (e.g. Telephone and shipping cannot be reimbursed as a direct cost if included in ICR; if an item is not in ICR, it should be on 2.10(b) or 2.10(c).)		X	
	Are appropriate lodging/per diem rates used?	X		W/notes
	Are rates approved for consultant-owned equipment (Schedule 2.10(c))?			W/notes

GENERAL COST REVIEW CHECKLIST		Yes	No	Comments
	Does total direct non-salary costs match amount on Schedule 2.11(a)?	X		
	Are other direct costs (# of travel days, lodging, and field equipment usage) reasonable based on field work schedule or supporting documentation from consultant? (Ask PM)			
5.	Schedule 2.11(e) - Cost-plus-fixed-fee subcontracts (typically don't need quotes)			N/A
	Is proposed subconsultant on standby? If not, does proposed subconsultant have DEC approved rates with another standby consultant?			↓
	Is subconsultant contract active and do rates (direct salary costs, indirect costs, direct non-salary costs, and fixed-fee) match?			
	Is there a breakdown of direct non-salary costs (i.e. are additional Sch. 2.11's needed)?			
	Does total subcontract amount match Schedule 2.11(a)?			
	Has subcontractor justified/obtained adequate quotes for any further subcontracted work?			↓
6.	Schedule 2.11(f) - Unit Price Subcontracts (aka per diem, lump sum)			
	Are proposed subcontractors on standby? If not, are there quotes for subcontracts >\$1k? Bids should be comparable (quantities and items) and provide unit costs plus job total.		X	*
	<i>Standby Drillers</i> (Two-step process) - Are costs from at least 3 standbys compared? If not, an additional quote from a non-standby driller may be needed. Are proper unit costs and mob/demob costs used?	X		<i>[Signature]</i>
	<i>Standby Lab and Data Validators</i> (Used on a rotational basis) - Do unit cost per sample match unit cost in standby contract?	X		
	<i>Other</i> - Standard solicitation rules (quotes) apply for services >\$1k.		X	**
	<i>M/WBE</i> - Are sole-source M/WBE contracts <\$5k and cost-reasonableness documented?	X		
	Is management fee calculated only on non-professional unit priced subs >\$10k? Appropriate rate? (Fee cannot be calculated on professional engineers, architects, or surveyors.)	X		
7.	Schedule 2.11(g) - Cost Control Report			
	Do individual 2.11(g)s equal the summary 2.11(g) and do those costs match 2.11(a)?	X		
8.	Supplemental 2.11(g) - Cost Control Report (subs)			
	Do schedules include all applicable subcontracts and management fee? (Unit price only.)	X		
9.	Schedule 2.11(h) - Summary of Labor Hours			
	Do hours on 2.11(h) match those on 2.11(b)?	X		
10.	Supplemental Supporting Cost Information			
	Has additional cost info. been supplied which has not been incorporated into WA budget documentation? List: <div style="margin-left: 40px;"> ** Sub for Chem Oxid. Pilot Test must be approved prior to fund expenditure. * All subs transferred from D003600-48. </div>			



**Dvirka
and
Bartilucci**

CONSULTING ENGINEERS

330 Crossways Park Drive, Woodbury, New York 11797-2015
516-364-9890 • 718-460-3634 • Fax: 516-364-9045
e-mail: findingsolutions@db-eng.com

October 11, 2006

Principals

Nicholas J. Bartilucci, P.E.
President

Henry J. Chlupsa, P.E.
Executive Vice President

Steven A. Fangmann, P.E.
Senior Vice President

Richard M. Walka
Senior Vice President

John A. Mirando, P.E.
Vice President

Garrett M. Byrnes, P.E.
Vice President

Anthony O. Conetta, P.E.
Vice President

Dennis F. Koehler, P.E.
Vice President

Joseph H. Marturano
Vice President

Kenneth J. Pritchard, P.E.
Vice President

Theodore S. Pytlar, Jr.
Vice President

Brian M. Veith, P.E.
Vice President

Senior Associates

Thomas P. Fox, P.G.

Robert L. Haynie, P.E.

William D. Merklin, P.E.

Michael Neuberger, P.E.

Kenneth P. Wenz, Jr., C.P.G.

Associates

Joseph F. Baader

Steven M. Cabrera

Rudolph F. Cannavale

Christopher M. Clement

Eileen R. DeOrsay

Stefanos J. Eapen, R.A.

Joseph A. Fioraliso, P.E.

Christopher W. Francis

Michael R. Hofgren

Sean Pepling, P.G.

Edward J. Reilly

Daniel Shabat, P.E.

Charles J. Wachsmuth, P.E.

Ms. Lisa Lewis

Contracts/Payments Section

Bureau of Program Management

Division of Environmental Remediation

New York State Department of Environmental Conservation

625 Broadway, 12th Floor

Albany, NY 12233-7012

Re: Project Transfer Work Plan
123 Post Avenue, Westbury, New York
(Site No. 1-30-088)
Work Assignment #D004446-21
D&B 2599

Dear Ms. Lewis:

The purpose of this letter is to provide a work plan for the transfer of the referenced project from Contract D003600 to Contract D004446. Work completed under Contract D003600 included preparation of draft and final remedial design work plans for the project and implementation of pre-design groundwater sampling. The remaining tasks to be conducted for this project include conducting a pilot test for the selected remedy (in-situ chemical oxidation), preparing remedial design documents (plans and specifications) for public bidding, and providing pre-award assistance to the New York State Department of Environmental Conservation (NYSDEC). The activities that will be conducted as part of each of these tasks are described below. Also presented below are a revised project schedule and budget.

Task 1 – Pilot Test

Soil Vapor Sampling

Based on the results of the recently conducted groundwater sampling, soil vapor samples will be collected at nine locations to evaluate whether significant concentrations of VOCs are migrating from groundwater into the overlying

Ms. Lisa Lewis
Contracts/Payments Section
Bureau of Program Management
Division of Environmental Remediation
New York State Department of Environmental Conservation
October 11, 2006

Page 2

unsaturated zone. As currently planned, three of these sample locations will be along South Fulton Street between Madison Avenue and Lexington Avenue, three locations will be along Lexington Avenue between South Fulton Street and South Grand Street, and three locations will be along Lenox Avenue in the vicinity of existing monitoring well OU2-3.

The soil vapor samples will be collected from a depth of 10 to 12 feet below grade, the approximate depth of building basements. Since these monitoring points may also be utilized during the pilot test, permanent probes will be installed in accordance with NYSDOH guidance using the direct push method.

Prior to sampling, one to three probe volumes will be purged, at a maximum flow rate of 0.2 liters per minute. Each sample will be collected over a period of at least 4 hours, at a maximum flow rate of 0.2 liters per minute. In accordance with NYSDOH guidance, a tracer gas (helium) will be used during sample collection. The helium concentration in soil vapor will be measured immediately after purging to verify the integrity of the soil vapor sampling point. One duplicate and one ambient air sample will also be collected as part of the soil vapor sampling task. The duplicate sample will be collected concurrently with the original sample, using a "T" fitting on the sample tubing.

Each of the eleven samples (nine soil vapor, one duplicate soil vapor and one ambient air) will be analyzed for VOCs using Method TO-15. Standard (4-week) laboratory turnaround time will be utilized for the soil vapor and ambient air samples. Since these results will be used for screening purposes only, batch-certified canisters will be used.

Pilot Test

In order to further evaluate the effectiveness of chemical oxidation for remediation of contaminated groundwater, as well as determine design parameters (i.e., injection well dosage rates, spacing, etc.), a pilot test will be performed. The objectives of the pilot test include the following:

- Determine the optimum number and location of the injection points for full-scale implementation;
- Determine the effective zone of influence of the injection point and whether groundwater mounding will occur due to the injection of oxidant;
- Determine the optimum injection depths;

Ms. Lisa Lewis
Contracts/Payments Section
Bureau of Program Management
Division of Environmental Remediation
New York State Department of Environmental Conservation
October 11, 2006

- Determine the optimum injection pressures;
- Determine the optimum mass and volume of oxidant to be injected at each location; and
- Determine the effect of the oxidant and by-products on groundwater quality.

A Request for Proposal (RFP) package will be prepared for procuring a contractor to conduct the pilot test. A draft solicitation package will be provided to NYSDEC for review and comment. A preliminary cost for the pilot test has been estimated at \$46,000 and is included in the project budget (see enclosed Schedule 2.11 forms). The vendor and actual cost will be determined using the RFP process.

The RFP will require information from the vendors with respect to their experience in conducting treatability studies and pilot studies, and full-scale projects that would provide the data required to verify the applicability of the technology to remediate contamination downgradient of the 123 Post Avenue Site. The RFP will include the following sections: project description; contaminant concentrations and groundwater characteristics (based on existing data); project objectives; scope of work; general requirements; minimum pilot study requirements; injection well construction requirements; minimum monitoring requirements; parameters to be analyzed; safety requirements; QA/QC requirements; proposal submittal requirements; reporting requirements; project schedule; and experience and qualifications.

Each potential vendor will also be provided with a copy of D&B's standard subcontractor agreement and the master agreement with NYSDEC. Once finalized, the RFP package will be sent to subcontractors for bidding. Once received, quotations will be reviewed and recommendations will be provided to NYSDEC with regard to subcontractor selection.

It is anticipated that the pilot study will include the installation of one injection point and three groundwater monitoring wells with monitoring at the new and existing groundwater monitoring wells in close proximity to, and downgradient of the injection point. The injection will likely be performed in one of the areas where the elevated VOC concentrations were detected in groundwater during the recent sampling activities (Lexington Avenue near South Fulton Street or Lenox Avenue near South Grand Street). The exact location for the pilot test will be determined during preparation of the RFP.

Ms. Lisa Lewis
Contracts/Payments Section
Bureau of Program Management
Division of Environmental Remediation
New York State Department of Environmental Conservation
October 11, 2006

Page 4

Groundwater samples will be collected by the subcontractor from the newly installed monitoring wells and three selected existing monitoring wells, if warranted, prior to injection of the oxidant, 24 hours after the injection, and at intervals of 1 week, 2 weeks, 4 weeks and 6 weeks after injection, to evaluate the dispersion of the oxidant and the effectiveness of the oxidant at reducing the contaminants of concern in groundwater samples. Groundwater samples will be collected using low flow procedures and purge water will be contained for discharge to the Nassau County sanitary sewer system. Each sample will be analyzed for VOCs, TAL metals, residual permanganate and chloride. Field parameters, including water level, color, pH, oxidation-reduction potential (ORP), dissolved oxygen (DO) and temperature, will also be measured at the time of sample collection. Following completion of the pilot test, D&B will collect samples from the wells sampled during the pilot test at intervals of 9, 12 and 16 weeks after oxidant injection. These samples will also be collected using low flow procedures and the purge water will also be contained for discharge to the Nassau County sanitary sewer system. The samples will be analyzed for the same parameters that were analyzed during the pilot test, except for residual permanganate, which is a proprietary analysis, with standard (4-week) laboratory turnaround time. Sample results will be included in the Engineering Design Report (described below).

In order to evaluate soil vapor impacts from the pilot test, it is anticipated that four soil vapor monitoring points will be installed by the subcontractor as part of the pilot study. The subcontractor will be required to monitor these points prior to injection, 24 hours after injection and 1 week after injection. Prior to sample collection, the probes will be purged using a photoionization detector (PID) to evaluate, in real time, whether significant levels of VOCs are present in the soil vapor. D&B will monitor the points at 9 weeks and 12 weeks after injection, concurrent with the groundwater sampling. During each sampling event, one ambient air sample will also be collected. Duplicate soil vapor samples will not be collected during these events. As a result, it is anticipated that eight soil vapor samples and two ambient air samples will be collected by D&B and analyzed for VOCs. D&B's sample results will be included in the Engineering Design Report (described below).

D&B will oversee the pilot test and monitoring well construction. After completion of the pilot test, D&B will perform the required groundwater monitoring. D&B's sample results will be included in the Engineering Design Report (described below). The scope of work for the pilot test is subject to change based on further development of the scope of work during preparation of the solicitation for pilot test services.

Ms. Lisa Lewis
Contracts/Payments Section
Bureau of Program Management
Division of Environmental Remediation
New York State Department of Environmental Conservation
October 11, 2006

Page 5

Pilot Test Report

After completion of the pilot test and receipt of the analytical data from the groundwater monitoring, a pilot test report will be prepared by the subcontractor. The report will include a description of the pilot test, notation of any deviations from the work plan, interpretation of the data, and conclusions and recommendations, with special consideration of the factors that may influence the remedial design or full-scale implementation of the selected remedy.

The report will also provide an evaluation and recommendations regarding full-scale oxidant injection (e.g., number, depth and locations of injection points, volume and mass of oxidant required, duration of the full-scale remediation, monitoring requirements, etc.), assuming that the pilot study results demonstrate that the technology will be effective for full-scale implementation. Groundwater sample data will be validated by the subcontractor and the results of the validation will be presented in the Pilot Study Report.

Site Reconnaissance

Task 1 also includes a reconnaissance of the project area to evaluate potential locations for injection wells, monitoring points for groundwater and soil vapor, and staging of equipment and materials that will be required for pilot testing and full-scale implementation of the selected remedy. The reconnaissance will also identify limitations that may impact implementation of the remedy, such as aboveground or underground utilities and existing structures (houses, driveways, etc.). It is assumed that all injection wells will be installed in rights-of-way and will consist of individual injection wells without interconnecting piping and, therefore, no survey work will need to be performed prior to preparation of the Plans and Specifications.

Task 2 – Plans and Specifications

Draft, pre-final and final specifications and drawings will be prepared for the purpose of competitively bidding the remedial construction in conformance with the NYSDEC Standard Contract Documents. The design documents will conform to the selected remedy in the Record of Decision and will conform to New York State laws, rules, regulations and guidelines. As noted below, this task includes optional items that may be conducted at the request of the NYSDEC.

Ms. Lisa Lewis
Contracts/Payments Section
Bureau of Program Management
Division of Environmental Remediation
New York State Department of Environmental Conservation
October 11, 2006

The specifications will contain contractor submittal requirements, including preparation of a project schedule; site-specific sampling and analysis plan (SAP), including details for verification sampling analysis and reporting; QA/QC plan; a site-specific health and safety plan (HASP), which will include a community air monitoring plan; and an operations, maintenance and monitoring plan. The specifications will also include requirements for mobilization/demobilization, site preparation and restoration, waste management and disposal, and site security. In addition, the Contract Documents will contain a bid sheet, estimated quantities for each bid item, and a maximum time period for substantial completion and final completion.

The design documents will specify requirements for the following:

- Site preparation;
- Injection of oxidant to treat VOC-contaminated groundwater in the unconsolidated aquifer at predetermined locations and depths;
- Monitoring the success and effectiveness of the remedy;
- Maintenance of traffic (as required);
- Various permit requirements;
- Construction of new groundwater monitoring wells for long-term monitoring of the effectiveness of the remediation;
- Soil vapor and/or indoor air monitoring, if required;
- Noise, odor and dust controls; and
- Site restoration.

Preliminary Design Submittal (30% Complete)

The preliminary design submittal will consist of preliminary drawings and an outline of the specifications, and will be submitted to the NYSDEC when the design is approximately 30% complete. The preliminary drawing set will include a title sheet, index of drawings with symbols and abbreviations, existing conditions plan showing known utilities and preliminary plan showing the area to be targeted for oxidant injection. Five copies of the preliminary design package will be provided to NYSDEC for review and comment.

Ms. Lisa Lewis
Contracts/Payments Section
Bureau of Program Management
Division of Environmental Remediation
New York State Department of Environmental Conservation
October 11, 2006

Supporting documentation, including the basis for design, supporting data, documentation and design calculations, will be summarized in a letter report. The letter report will also identify potentially impacted property owners and property rights, and include a preliminary list of anticipated temporary or permanent easements, rights-of-way and permits necessary to perform the remediation, and identification of non-property permits with which the remediation must be in substantial compliance. It is assumed that NYSDEC will obtain the necessary permits, access agreements and/or easements.

Intermediate Design Submittal (60% Complete)

The intermediate design submittal is an optional task as outlined in the work assignment. If requested by the NYSDEC, an additional draft of the plans and specifications will be submitted when the intermediate design is complete. The estimated cost for this work assignment (see enclosed Schedule 2.11 forms) does not include pricing for Intermediate Design.

Engineering Design Report

A draft Engineering Design Report will be prepared and submitted with the pre-final design as discussed below. The Engineering Design Report will present the results of the pre-design/post-pilot test soil vapor and groundwater sampling, including documentation of field activities, notation of any deviations from the approved work plan, a presentation of the data collected, interpretation of the data and conclusions, and recommendations appropriate to the site, including further investigation, if necessary. The pilot test report will be included as an appendix to the Engineering Design Report.

Additionally, the Engineering Design Report will present a description of the major elements of the project, the basis of design, and assumptions and uncertainties associated with the design effort. A draft Engineering Design Report will be submitted for NYSDEC review and comment. The draft Engineering Design Report will be revised based on NYSDEC comments.

Pre-Final and Final Design Submittal

Upon completion of the design documents, five copies of the pre-final plans and specifications and design report will be submitted to NYSDEC for final review. Each copy of the bid package will include a complete set of drawings, a complete specifications package, bid forms, measurement and payment provisions and NYSDEC Standard Contract Documents.

Ms. Lisa Lewis
Contracts/Payments Section
Bureau of Program Management
Division of Environmental Remediation
New York State Department of Environmental Conservation
October 11, 2006

Page 8

NYSDEC comments will be incorporated into the final plans and specifications. After approval, up to 75 copies of the Contract Documents will be provided to the NYSDEC. In addition, an electronic copy in Portable Document Format (PDF) will be provided. The final drawings and specifications will be sealed and signed by a Professional Engineer licensed to practice in New York State. For budget purposes, it is assumed that each set of the Contract Documents will be comprised of 1,000 double-sided pages and ten 30-inch by 40-inch drawings.

Project Cost Estimate

A detailed construction, operation and maintenance cost estimate for the project will be prepared under this subtask. The estimate will be prepared on a bid item basis, consistent with the bid schedule in the Contract Documents, in order to provide a cost estimate for each bid item. Based upon comments from the NYSDEC, D&B will revise and submit the final cost estimate with the final drawings and specifications.

Citizen Participation Activities

If requested by the NYSDEC, D&B will attend one public meeting to answer questions regarding the project design, construction techniques and project schedule. D&B will also prepare minutes of the meeting and will provide them to the NYSDEC.

Task 3 -- Pre-Award Services

D&B will provide pre-award services in conjunction with the competitive bidding of the remedial construction project, if requested by the Department. The services under this task have been organized into three subtasks as described below. It is assumed that advertising for bids and distribution of bid documents and any addenda will be performed by the NYSDEC. D&B will provide assistance, as needed, with the content of advertisements and addenda.

Pre-Bid Conference

D&B will attend and assist the NYSDEC with an on-site pre-bid conference and site walkover. At the pre-bid conference, D&B will emphasize to the prospective bidders important aspects of the project. D&B will prepare and submit meeting minutes for the pre-bid conference and respond to technical questions regarding the plans and specifications.

Ms. Lisa Lewis
Contracts/Payments Section
Bureau of Program Management
Division of Environmental Remediation
New York State Department of Environmental Conservation
October 11, 2006

Page 9

Addenda

D&B will prepare written responses to questions raised at the pre-bid conference and any necessary addenda to the plans and specifications for the timely transmittal by the NYSDEC to the prospective bidders. D&B will provide up to 25 copies of addenda to the NYSDEC for distribution to the bidders. For budget purposes, it is assumed that one addendum will be prepared.

Bid Review

Following the receipt of bids, D&B will perform a technical evaluation of the bids and prepare a tabulation of the bid prices that will be submitted to the NYSDEC. Additionally, as part of this subtask, D&B will review the apparent lowest bidder's technical pre-award submittals to determine conformance with the requirements of the Contract Documents.

Project Schedule

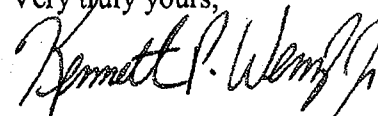
The project schedule is enclosed. Please note that the schedule is based on a work plan approval date of October 16, 2006.

Project Budget

The budget for the tasks described above is provided in the enclosed Schedule 2.11 forms. For estimating purposes, rates for calendar year 2007 have been increased by 4% from the calendar year 2006 rates.

If you have any questions or require any additional information regarding the information in this letter, please contact me at (516) 364-9890.

Very truly yours,



Kenneth P. Wenz, Jr., CPG
Senior Associate

KPWt/jmy
Enclosures

cc: Nathan Putnam (NYSDEC)
♦2599\KPW10116 LL-LTR.DOC

PROJECT SCHEDULE
123 POST AVENUE REMEDIAL DESIGN

<u>Task</u>	<u>Start Date</u>	<u>Duration (weeks)</u>	<u>Completion Date</u>
<u>Task 1 - Pilot Test</u>	10/16/06		
1 Soil Vapor/Ambient Air Sampling ¹		5	11/20/06
2 Area Reconnaissance ²		0	11/20/06
3 Pre-Design Investigation Report ²		2	12/4/06
4 Contractor Procurement			
Preparation of Draft Bid Documents		4	11/13/06
NYSDEC Review		2	11/27/06
Preparation and Transmittal of Final Bid Documents		3	12/18/06
Receipt and Review of Bids		3	1/8/07
Contractor Selection and Contract Execution		2	1/22/07
5 Conduct Pilot Test and Follow-up Sampling		6	3/5/07
6 Draft Pilot Test Report		4	4/2/07
7 NYSDEC and D&B Review of Draft Report		1	4/9/07
8 Final Pilot Test Report		2	4/23/07
9 NYSDEC and D&B Review of Final Report		1	4/30/07
10 Additional Groundwater and Soil Vapor Sampling ^{1,2}		10	5/28/07
<u>Task 2 - Plans and Specifications</u>	4/30/07		
11 Preliminary (30%) Design		6	6/11/07
12 Intermediate (60%) Design (if requested) ³		4	7/9/07
13 Pre-Final and Final Design ³		4	8/6/07
14 Engineering Design Report ²		0	8/6/07
<u>Task 3 - Pre-Award Services</u>			
15 Copying of Bid Documents			4
16 Pre-Bid Conference			4
17 Addendum to Contract Documents (if required)			4
18 Bid Review and Contractor Selection			4

¹ Includes laboratory analysis with 4-week turnaround time.

² Item to be conducted concurrently with other items under this task.

³ It is assumed that NYSDEC review of previous submittals will occur concurrently with this item.

⁴ Schedule to be determined.

Schedule 2.11 (a)

Summary of Work Assignment Price
123 Post Avenue Remedial Design

Work Assignment Number D004446-21

1.	Direct Salary Costs (Schedules 2.10 (a) and 2.11(b))	\$38,165	✓
2.	Indirect Costs (Schedule 2.10 (g))	\$57,629	✓
3.	Direct Non-Salary Costs (Schedules 2.11 (c) and (d))	\$4,223	✓

Subcontract Costs

Cost-Plus-Fixed-Fee Subcontracts (Schedules 2.11(e))

<u>Name of Subcontractor</u>	<u>Services To Be Performed</u>	<u>Subcontract Price</u>
4.	Total Cost-Plus-Fixed-Fee Subcontracts	\$0

Unit Price Subcontracts (Schedules 2.11(f))

<u>Name of Subcontractor</u>	<u>Services To Be Performed</u>	<u>Subcontract Price</u>
Zebra Environmental Corp.	Direct Push Services	\$6,000
Mitkem Corporation (MBE)	Sample Analysis	\$9,996
To Be Determined	Chemical Oxidation Pilot Test	\$46,000
Jamaica Blueprint Co., Inc. (WBE)	Reproduction Services	\$8,892

5.	Total Unit Price Subcontracts	\$70,888	✓
6.	Subcontract Management Fee	\$3,244	✓
7.	Total Subcontract Costs (lines 4 + 5 + 6)	\$74,133	✓
8.	Fixed Fee (Schedule 2.10 (h))	\$11,016	✓
9.	Total Work Assignment Price (lines 1 + 2 + 3 + 7 + 8)	\$185,167	✓

SCHEDULE 2.11 (b)
SUMMARY
123 Post Avenue Remedial Design
WORK ASSIGNMENT NUMBER D004446-21

Average NSPE Wage Rates	IX	VIII	VII	VI	V	IV	III	II	I	TOTAL HOURS
as of January 1, 2006	\$61.60	\$54.95	\$51.32	\$45.44	\$36.10	\$33.51	\$29.09	\$23.13	\$18.10	
as of January 1, 2007	\$64.06	\$57.15	\$53.37	\$47.26	\$37.54	\$34.85	\$30.25	\$24.06	\$18.82	
Task 1 - Pilot Test Program	6	0	0	62	46	50	212	30	0	406 ✓
Task 2 - Remedial Design	6	12	0	2	108	0	368	164	0	660 ✓
Task 3 - Pre-Award Services	8	0	0	32	8	0	48	18	0	114 ✓
Total 2006 Hours	4	0	0	50	24	10	80	22	0	190 ✓
Total 2007 Hours	16	12	0	46	138	40	548	190	0	990 ✓
Total Direct Labor Cost	\$1,271	\$686	\$0	\$4,446	\$6,047	\$1,729	\$18,906	\$5,079	\$0	\$38,165 ✓

SCHEDULE 2.11 (b)-1
SUMMARY
123 Post Avenue Remedial Design
WORK ASSIGNMENT NUMBER D004446-21

Average NSPE Wage Rates	IX	VIII	VII	VI	V	IV	III	II	I	TOTAL HOURS
as of January 1, 2006	\$61.60	\$54.95	\$51.32	\$45.44	\$36.10	\$33.51	\$29.09	\$23.13	\$18.10	
as of January 1, 2007	\$64.06	\$57.15	\$53.37	\$47.26	\$37.54	\$34.85	\$30.25	\$24.06	\$18.82	
Task 1	0.5	0	0	7	0	0	0	12	0	19.5
Task 2	0.5	0	0	1	0	0	0	14	0	15.5
Task 3	0.5	0	0	1	0	0	0	4	0	5.5
Total 2006 Hours	0.5	0	0	7	0	0	0	12	0	19.5
Total 2007 Hours	1	0	0	2	0	0	0	18	0	21
Total Direct Labor Cost	\$95	\$0	\$0	\$413	\$0	\$0	\$0	\$711	\$0	\$1,218

**BREAKDOWN OF ADMINISTRATIVE
LOE HOURS ON SCHEDULE 2.11(b-1)**

ADMIN ACTIVITY	WORK PLAN DEVELOPMENT															REVIEW WORK ASSIGNMENT (WA) PROGRESS														
	Conflict of Interest Checks						Prepare 2.11 Schedules									Conduct Progress Reviews						Prepare Monthly Report & Update Schedules								
NSPE	IX	VIII	VII	VI	V	IV	VIII	VII	VI	V	IV	III	II	I	VIII	VII	VI	V	IV	III	VIII	VII	VI	V	IV	III	II	I		
TASK 1									6														1							
TASK 2																							1							
TASK 3																							1							
TOTAL	0	0	0	0	0	0	0	0	6	0	0	0	0	0	0	0	0	0	0	0	0	0	3	0	0	0	0	0		

ADMIN ACTIVITY	REVIEW WORK ASSIGNMENT (WA) PROGRESS														CAP PREPARATION											
	MBE/WBE Activities								Program Management						Prepare Monthly Cost Control Report & CAP								Oversee CAP			
NSPE	VIII	VII	VI	V	IV	III	II	I	IX	VIII	VII	VI	V	IV	VIII	VII	VI	V	IV	III	II	I	IX	VIII	VII	VI
TASK 1									0.5												12					
TASK 2									0.5												14					
TASK 3									0.5												4					
TOTAL	0	0	0	0	0	0	0	0	1.5	0	0	0	0	0	0	0	0	0	0	0	30	0	0.0	0	0	0

ADMIN ACTIVITY	MISCELLANEOUS																								
	Update NSPE List								Equipment Use and Inventory				Word Proc. and Report Preparation				Total Adm. LOE (hrs)								
NSPE	VIII	VII	VI	V	IV	III	II	I	IV	III	II	I	IV	III	II	I	IX	VIII	VII	VI	V	IV	III	II	I
TASK 1																	0.5			7					12
TASK 2																	0.5			1					14
TASK 3																	0.5			1					4
TOTAL	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1.5	0.0	0.0	9.0	0.0	0.0	0.0	30.0	0.0

SCHEDULE 2.11 (c)
DIRECT NON-SALARY COSTS
SUMMARY
123 Post Avenue Remedial Design
Work Assignment No. D004446-21

ITEM	MAXIMUM REIMBURSEMENT RATE	UNIT	ESTIMATED NUMBER OF UNITS	TOTAL ESTIMATED COSTS
IN-HOUSE				
Outside Services*	\$200.00	set	0	\$0.00
Express Mail	\$25.00	package	4	\$100.00
Sample Shipping	\$50.00	shipment	18	\$900.00
Level D Safety Equipment	✓ \$16.62	/person/day	15	\$249.30
TRAVEL				
Transportation (Personal Car)	✓ \$0.445	mile	334	\$148.63
Van Rental	\$100.00	day	6	\$600.00
Gas	\$50.00	day	6	\$300.00
TOTAL DIRECT NON-SALARY COSTS				\$2,297.93 ✓

* Includes photo finishing, slides and any other costs not associated with in-house capabilities.

SCHEDULE 2.11 (d) 1

EQUIPMENT PURCHASED UNDER THE CONTRACT
SUMMARY

123 Post Avenue Remedial Design
Work Assignment No. D004446-21

ITEM	ESTIMATED PURCHASE PRICE	O&M RATE (\$/per month)	TERM OF USAGE (MONTHS)	ESTIMATED USAGE COST (COL. 2 + [3X4])
			TOTAL	\$0.00

Schedule 2.11 (d) 2
Summary

Maximum Reimbursement Rates for Consultant/Subconsultant - Owned Equipment
123 Post Avenue Remedial Design
Work Assignment No. D004446-21

ITEM	PURCHASE PRICE X 85%	USAGE RATE (\$/day)	CAPITAL RECOVERY RATE (\$/Unit of Time)	O & M RATE (\$/Unit of Time)	ESTIMATED USAGE (days)	ESTIMATED USAGE COST (Col. 3x6)
						\$0
					TOTAL	\$0

Notes:

Usage Rate = Capital Recovery Rate + O&M rate

The maximum usage rate for an item of equipment reverts to the O&M rate when the total usage reimbursement exceed 85% of the purchase price.

SCHEDULE 2.11 (d) 3
 EQUIPMENT
 VENDOR RENTED
 SUMMARY
 123 Post Avenue Remedial Design
 Work Assignment No. D004446-21

ITEM	MAXIMUM REIMBURSEMENT RATE	TIME PERIOD	ESTIMATED USAGE (period of time)	ESTIMATED USAGE COST (Col. 2 X 3)
Century OVA 128	\$125.00	day	0	\$0.00
Photovac Microtip	\$125.00	day	0	\$0.00
MIE Miniram Digital Dust Indicator	\$200.00	week	0	\$0.00
Horiba U22 Water Quality Meter	\$100.00	day	6	\$600.00
Solinst Water Level Indicator	\$25.00	day	0	\$0.00
Generator	\$60.00	day	0	\$0.00
Peristaltic Pump	\$50.00	day	0	\$0.00
Grunfos Pump	\$125.00	day	0	\$0.00
GoMac Helium Meter	\$75.00	day	3	\$225.00
			Total	\$825.00

SCHEDULE 2.11 (d) 4
SUMMARY
EXPENDABLE SUPPLIES
123 Post Avenue Remedial Design
Work Assignment No. D004446-21

ITEM	ESTIMATED QUANTITY	UNITS	UNIT COST	TOTAL BUDGETED COST (COL. 2 X 3)
Polyethylene tubing	2000	feet	\$0.25	\$500.00
Disposable bailers	0.0	case of 24	\$200.00	\$0.00
			TOTAL	\$500.00

SCHEDULE 2.11 (d) 5
CONSUMABLE SUPPLIES
SUMMARY
123 Post Avenue Remedial Design
Work Assignment No. D004446-21

ITEM	ESTIMATED QUANTITY	UNIT COST	TOTAL BUDGETED COST (COL. 2 X 3)
Miscellaneous Supplies	6	\$100.00	\$600.00
		TOTAL	\$600.00

**SCHEDULE 2.11 (f) 1
UNIT PRICE SUBCONTRACTS
SUMMARY
123 Post Avenue Remedial Design
Work Assignment No. D004446-21**

<u>NAME OF SUBCONTRACTOR</u>	<u>SERVICES TO BE PERFORMED</u>	<u>SUBCONTRACT PRICE</u>	<u>MANAGEMENT FEE</u>
Zebra Environmental Corporation	Direct Push Services	\$6,000	\$0
<u>Item</u>	<u>Maximum Reimbursement Rate</u>	<u>Estimated No. of Units</u>	<u>Total Estimated Costs</u>
1a Mobilization and demobilization, including site set-up, breakdown, clean-up, repair and site restoration.	\$400 Lump sum	1 Event	\$400
b Non-mobile decontamination pad	\$105 Lump sum	1 Pad	\$105
2 Well set-up	\$10 Per location	9 Locations	\$90
3 Geoprobe System			
Truck/Van/ATV-mounted unit	\$1,150 Per 8-hour day	2 Days	\$2,300
Second crew member	\$195 Per 8-hour day	2 Days	\$390
4 Overtime charge for on-site work	\$75 Per person hour	4 Person hours	\$300
5 Soil vapor probe installation	\$5 Per foot	135 Feet	\$675
6 Groundwater sampling	\$9 Per sample	0 Samples	\$0
7 Flush-mounted manholes	\$55 Per manhole	9 Manholes	\$495
8 Portland cement	\$16 Per bag	4 Bags	\$64
9 Bentonite powder	\$35 Per bag	29 Bags	\$1,015
10 Asphalt patch	\$8 Per bag	2 Bags	\$16
11 Standby time	\$75 Per hour	2 Hours	\$150
SUBTOTAL			\$6,000
SUBCONTRACT MANAGEMENT FEE			\$0
TOTAL			\$6,000

SCHEDULE 2.11 (f) 2
UNIT PRICE SUBCONTRACTS
SUMMARY
123 Post Avenue Remedial Design
Work Assignment No. D004446-21

NAME OF SUBCONTRACTOR	SERVICES TO BE PERFORMED	SUBCONTRACT PRICE		MANAGEMENT FEE
Mitkem Corporation	Sample Analysis	\$9,996		\$500
<u>Item</u>	<u>Method</u>	<u>Maximum Reimbursement Rate</u>	<u>Estimated Units</u>	<u>Total Estimated Cost</u>
<u>Groundwater</u>				
VOCs (4-week turnaround time)	EPA SOW OLM04.2 (6/00 ASP)	\$74.00 per sample	18	\$1,332.00
Target Analyte List metals	EPA SOW ILM04.0 (6/00 ASP)	\$68.00 per sample	18	\$1,224.00
Chloride		\$15.00 per sample	18	\$270.00
<u>Soil Vapor/Ambient Air</u>				
VOCs	USEPA Method TO-15	\$270.00 per sample	20	\$5,400.00
<u>QA/QC Samples</u>				
<u>Groundwater</u>				
Matrix Spike/Matrix Spike Duplicate/Matrix Spike Blank				
VOCs (4-week turnaround time)	EPA SOW OLM04.2 (6/00 ASP)	\$74.00 per sample	9	\$666.00
Target Analyte List metals	EPA SOW ILM04.0 (6/00 ASP)	\$68.00 per sample	9	\$612.00
<u>Trip Blank</u>				
VOCs (4-week turnaround time)	EPA SOW OLM04.2 (6/00 ASP)	\$74.00 per sample	3	\$222.00
<u>Soil Vapor/Ambient Air</u>				
Blind Duplicate				
VOCs	USEPA Method TO-15	\$270.00 per sample	1	\$270.00
SUBTOTAL				\$9,996.00
SUBCONTRACT MANAGEMENT FEE				\$500
TOTAL				\$10,495.80

SCHEDULE 2.11 (f) 3
UNIT PRICE SUBCONTRACTS
SUMMARY
123 Post Avenue Remedial Design
Work Assignment No. D004446-21

<u>NAME OF SUBCONTRACTOR</u>	<u>SERVICES TO BE PERFORMED</u>	<u>SUBCONTRACT PRICE</u>	<u>MANAGEMENT FEE</u>
To Be Determined	Pilot Test	\$46,000	\$2,300
<u>Item</u>	<u>Maximum Reimbursement Rate</u>	<u>Estimated No. of Units</u>	<u>Total Estimated Costs</u>
Conduct In-situ Chemical Oxidation Pilot Test	\$60,000 per test	1 Test	\$46,000
SUBTOTAL			\$46,000
SUBCONTRACT MANAGEMENT FEE			\$2,300
TOTAL			\$48,300

**SCHEDULE 2.11 (f) 4
UNIT PRICE SUBCONTRACTS
SUMMARY
123 Post Avenue Remedial Design
Work Assignment No. D004446-21**

<u>NAME OF SUBCONTRACTOR</u>	<u>SERVICES TO BE PERFORMED</u>	<u>SUBCONTRACT PRICE</u>	<u>MANAGEMENT FEE</u>
Jamaica Blueprint Company, Inc.	Printing	\$8,892	\$445
<u>Item</u>	<u>Maximum Reimbursement Rate</u>	<u>Estimated No. of Units</u>	<u>Total Estimated Costs</u>
Draft Plans and Specifications			
Specifications, 1,000 double-sided sheets each	\$105 per set	7 sets	\$735
Drawing Sets, 10 drawings each	\$14 per set	7 sets	\$95
Draft Final Plans and Specifications			
Specifications, 1,000 double-sided sheets each	\$105 per set	7 sets	\$735
Drawing Sets, 10 drawings each	\$14 per set	7 sets	\$95
Draft Plans and Specifications			
Specifications, 1,000 double-sided sheets each	\$85 per set	77 sets	\$6,541
Drawing Sets, 10 drawings each	\$9 per set	77 sets	\$693
SUBTOTAL			\$8,892
SUBCONTRACT MANAGEMENT FEE			\$445
TOTAL			\$9,337

Project Name: 123 Post Avenue Remedial Design
 Work Assignment No.: D004446-21
 Task No./Name: All Tasks
 Complete: 0.00%

SCHEDULE 2.11 (g)
 SUMMARY

Page 1 of 5
 Date Prepared:
 Billing Period:
 Invoice No.:

MONTHLY COST CONTROL REPORT
 SUMMARY OF FISCAL INFORMATION

Expenditure Category	A Costs Claimed This Period	B Paid To Date	C Total Disallowed To Date	D Total Costs Incurred To Date (A+B+B1)	E Estimated Costs To Completion	F Total Work Assignment Price (A+B+E)	G Approved Budget	H Estimated Under/(Over) (G-F)
1. Direct Salary Costs	0.00	0.00	0.00	0.00	0.00	0.00	\$38,165	✓ 0.00
2. Indirect	0.00	0.00	0.00	0.00	0.00	0.00	\$57,629	✓ 0.00
3. Subtotal Direct Salary Costs and Indirect Costs	0.00	0.00	0.00	0.00	0.00	0.00	\$95,795	✓ 0.00
4. Travel	0.00	0.00	0.00	0.00	0.00	0.00	\$1,049	✓ 0.00
5. Other Non-Salary Costs	0.00	0.00	0.00	0.00	0.00	0.00	\$3,174	✓ 0.00
6. Subtotal Direct Non-Salary Costs	0.00	0.00	0.00	0.00	0.00	0.00	\$4,223	✓ 0.00
7. Subcontractors	0.00	0.00	0.00	0.00	0.00	0.00	\$70,888	✓ 0.00
7a. Management Fee	0.00	0.00	0.00	0.00	0.00	0.00	\$3,244	✓ 0.00
8. Total Work Assignment Cost	0.00	0.00	0.00	0.00	0.00	0.00	\$174,150	✓ 0.00
9. Fixed Fee	0.00	0.00	0.00	0.00	0.00	0.00	\$11,016	✓ 0.00
10. Total Work Assignment Price	0.00	0.00	0.00	0.00	0.00	0.00	\$185,167	✓ 0.00

Project Manager (Engineer) _____

Date _____

Project Name: 123 Post Avenue Remedial Design
 Work Assignment No.: D004446-21
 Task No./Name: 1/Pilot Test Program
 Complete: 0.00%

SCHEDULE 2.11 (g)

Page 2 of 5
 Date Prepared:
 Billing Period:
 Invoice No.:

MONTHLY COST CONTROL REPORT
 SUMMARY OF FISCAL INFORMATION

Expenditure Category	A Costs Claimed This Period	B Paid To Date	C Total Disallowed To Date	D Total Costs Incurred To Date (A+B+B1)	E Estimated Costs To Completion	F Total Work Assignment Price (A+B+E)	G Approved Budget	H Estimated Under/(Over) (G-F)
1. Direct Salary Costs	0.00	0.00	0.00	0.00	0.00	0.00	\$13,657	0.00
2. Indirect	0.00	0.00	0.00	0.00	0.00	0.00	\$20,622	0.00
3. Subtotal Direct Salary Costs and Indirect Costs	0.00	0.00	0.00	0.00	0.00	0.00	\$34,279	0.00
4. Travel	0.00	0.00	0.00	0.00	0.00	0.00	\$999	0.00
5. Other Non-Salary Costs	0.00	0.00	0.00	0.00	0.00	0.00	\$3,074	0.00
6. Subtotal Direct Non-Salary Costs	0.00	0.00	0.00	0.00	0.00	0.00	\$4,073	0.00
7. Subcontractors	0.00	0.00	0.00	0.00	0.00	0.00	\$61,996	0.00
7a. Management Fee	0.00	0.00	0.00	0.00	0.00	0.00	\$2,800	0.00
8. Total Work Assignment Cost	0.00	0.00	0.00	0.00	0.00	0.00	\$103,148	0.00
9. Fixed Fee	0.00	0.00	0.00	0.00	0.00	0.00	\$3,942	0.00
10. Total Work Assignment Price	0.00	0.00	0.00	0.00	0.00	0.00	\$107,090	0.00

Project Manager (Engineer) _____

Date _____

Project Name: 123 Post Avenue Remedial Design
 Work Assignment No.: D004446-21
 Task No./Name: 2/Remedial Design
 Complete: 0.00%

SCHEDULE 2.11 (g)

Page 3 of 5
 Date Prepared:
 Billing Period:
 Invoice No.:

MONTHLY COST CONTROL REPORT
 SUMMARY OF FISCAL INFORMATION

Expenditure Category	A Costs Claimed This Period	B Paid To Date	C Total Disallowed To Date	D Total Costs Incurred To Date (A+B+B1)	E Estimated Costs To Completion	F Total Work Assignment Price (A+B+E)	G Approved Budget	H Estimated Under/(Over) (G-F)
1. Direct Salary Costs	0.00	0.00	0.00	0.00	0.00	0.00	\$20,298	0.00
2. Indirect	0.00	0.00	0.00	0.00	0.00	0.00	\$30,650	0.00
3. Subtotal Direct Salary Costs and Indirect Costs	0.00	0.00	0.00	0.00	0.00	0.00	\$50,947	0.00
4. Travel	0.00	0.00	0.00	0.00	0.00	0.00	\$0	0.00
5. Other Non-Salary Costs	0.00	0.00	0.00	0.00	0.00	0.00	\$100	0.00
6. Subtotal Direct Non-Salary Costs	0.00	0.00	0.00	0.00	0.00	0.00	\$100	0.00
7. Subcontractors	0.00	0.00	0.00	0.00	0.00	0.00	\$8,892	0.00
7a. Management Fee	0.00	0.00	0.00	0.00	0.00	0.00	\$445	0.00
8. Total Work Assignment Cost	0.00	0.00	0.00	0.00	0.00	0.00	\$60,385	0.00
9. Fixed Fee	0.00	0.00	0.00	0.00	0.00	0.00	\$5,859	0.00
10. Total Work Assignment Price	0.00	0.00	0.00	0.00	0.00	0.00	\$66,244	0.00

Project Manager (Engineer) _____

Date _____

Project Name: 123 Post Avenue Remedial Design
 Work Assignment No.: D004446-21
 Task No./Name: 3/Pre-Award Services
 Complete: 0.00%

SCHEDULE 2.11 (g)

Page 4 of 5
 Date Prepared:
 Billing Period:
 Invoice No.:

MONTHLY COST CONTROL REPORT
 SUMMARY OF FISCAL INFORMATION

Expenditure Category	A Costs Claimed This Period	B Paid To Date	C Total Disallowed To Date	D Total Costs Incurred To Date (A+B+B1)	E Estimated Costs To Completion	F Total Work Assignment Price (A+B+E)	G Approved Budget	H Estimated Under/(Over) (G-F)
1. Direct Salary Costs	0.00	0.00	0.00	0.00	0.00	0.00	\$4,210	0.00
2. Indirect	0.00	0.00	0.00	0.00	0.00	0.00	\$6,358	0.00
3. Subtotal Direct Salary Costs and Indirect Costs	0.00	0.00	0.00	0.00	0.00	0.00	\$10,568	0.00
4. Travel	0.00	0.00	0.00	0.00	0.00	0.00	\$50	0.00
5. Other Non-Salary Costs	0.00	0.00	0.00	0.00	0.00	0.00	\$0	0.00
6. Subtotal Direct Non-Salary Costs	0.00	0.00	0.00	0.00	0.00	0.00	\$50	0.00
7. Subcontractors	0.00	0.00	0.00	0.00	0.00	0.00	\$0	0.00
7a. Management Fee	0.00	0.00	0.00	0.00	0.00	0.00	\$0	0.00
8. Total Work Assignment Cost	0.00	0.00	0.00	0.00	0.00	0.00	\$10,618	0.00
9. Fixed Fee	0.00	0.00	0.00	0.00	0.00	0.00	\$1,215	0.00
10. Total Work Assignment Price	0.00	0.00	0.00	0.00	0.00	0.00	\$11,833	0.00

Project Manager (Engineer)

Date

Project Name: 123 Post Avenue Remedial Design
Work Assignment No.: D004446-21

SCHEDULE 2.11 (g) SUPPLEMENTAL
MONTHLY COST-CONTROL REPORT
SUBCONTRACTS

Page 5 of 5
Date Prepared:
Billing Period:
Invoice No.:

<u>Subcontract Name</u>	<u>Subcontract Costs Claimed This Application Incl. Resubmittals</u>	<u>Subcontract Costs Approved for Payment on Previous Application</u>	<u>Total Subcontract costs to Date (A plus B)</u>	<u>Subcontract Approved Budget</u>	<u>Management Fee Budget</u>	<u>Management Fee Paid</u>	<u>Total Costs To Date</u>
1. Zebra Environmental Corp.	\$0.00	\$0.00	\$0.00	\$6,000	\$0		
2. Mitkem Corporation	\$0.00	\$0.00	\$0.00	\$9,996	\$500		
3. Pilot Test Contractor (TBD)	\$0.00	\$0.00	\$0.00	\$46,000	\$2,300		
4. Jamaica Blueprint Co., Inc.	\$0.00	\$0.00	\$0.00	\$8,892	\$445		
Total				\$70,888	\$3,244		

Schedule 2.11 (h)

Project Name: 123 Post Avenue Remedial Design
 Work Assignment No.: D004446-21

Date Prepared:
 Billing Period
 Invoice No.

Monthly Cost Control Report
 Summary of Labor Hours
 Expended to Date/Estimated To Completion

NSPE Labor Classification	IX EXP/EST	VIII EXP/EST	VII EXP/EST	VI EXP/EST	V EXP/EST	IV EXP/EST	III EXP/EST	I & II EXP/EST	ADMIN/ SUPPORT	TOTAL NUMBER OF DIRECT LABOR HOURS EXP/EST
Task 1	0/ 6	0/ 0	0/ 0	0/ 62	0/ 46	0/ 50	0/ 212	0/ 18	0/ 12	0/ 406
Task 2	0/ 6	0/ 12	0/ 0	0/ 2	0/ 108	0/ 0	0/ 368	0/ 150	0/ 14	0/ 660
Task 3	0/ 8	0/ 0	0/ 0	0/ 32	0/ 8	0/ 0	0/ 48	0/ 14	0/ 4	0/ 114
Total 2006 Hours	0/ 4	0/ 0	0/ 0	0/ 50	0/ 24	0/ 10	0/ 80	0/ 10	0/ 12	0/ 190
Total 2007 Hours	0/ 16	0/ 12	0/ 0	0/ 46	0/ 138	0/ 40	0/ 548	0/ 172	0/ 18	0/ 990
TOTAL HOURS	0/ 20	0/ 12	0/ 0	0/ 96	0/ 162	0/ 50	0/ 628	0/ 182	0/ 30	0/ 1,180

MBE/WBE
UTILIZATION PLAN
SUMMARY
123 Post Avenue Remedial Design
Work Assignment No. D004446-21

<u>Areas to be Subcontracted</u>	<u>Subcontractor Name</u>	<u>MBE/WBE</u>	<u>Total Subcontract Value</u>	<u>% MBE/WBE Utilization</u>
1. Sample Analysis	Mitkem Corporation	MBE	\$9,996	5.4%
2. Reproduction Services	Jamaica Blueprint Co., Inc.	WBE	\$8,892	4.8%
Total MBE Utilization	<u>MBE Subcontract Value</u> Total Contract Value	=	<u>\$9,996</u> \$185,167	5.4%
Total WBE Utilization	<u>WBE Subcontract Value</u> Total Contract Value	=	<u>\$8,892</u> \$185,167	4.8%
Total MBE/WBE Utilization	<u>MBE/WBE Subcontract Value</u> Total Contract Value	=	<u>\$18,888</u> \$185,167	10.2%

K60382
Post Ave
Amend #1
~~Need CA memo~~
~~to approval~~

From: Sal Ervolina
To: Vasudevan, Chittibabu
Date: 11/30/2007 5:38:43 PM
Subject: Re: 123 Post Avenue, Site No. 130088, WA amendment

I approve the conceptual approval memo to amend the Remedial Design WA for the 123 Post Avenue Site.

>>> Chittibabu Vasudevan 11/29/2007 4:29 PM >>>

Sal: Attached memo is submitted to you for your conceptual approval for the remedial design standby contract work assignment amendment for the 123 Post Avenue, Site No. 130088, project. This amendment is to increase the budget to \$345,549 based on bids received for the pilot test. This is a budget increase only.

Thanks

Chittibabu Vasudevan, Ph.D.,P.E.("Vasu")
Director, Remedial Bureau A
Division of Environmental Remediation
625 Broadway, 11th Floor
Albany, NY 12233-7015
Phone: (518) 402-9625
Fax: (518) 402-9627
e-mail: cxvasude@gw.dec.state.ny.us

CC: Bobersky, Guy; Cruden, Michael; Finlayson, David; Parish, Walter; Paulsen, Lucretia; Putnam, Nathan; Weigel, Donna; Wolosen, Tim

**New York State Department of Environmental Conservation
Division of Environmental Remediation**

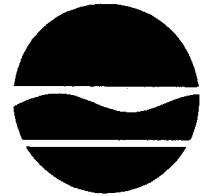
Remedial Bureau A

625 Broadway, 11th Floor

Albany, New York 12233-7015

Phone: (518) 402-9621 • Fax: (518) 402-9020/ (518) 402-9627

Website: www.dec.state.ny.us



Alexander B. Grannis
Commissioner

MEMORANDUM

TO: Salvatore Ervolina, PE, Assistant Division Director, DER

FROM: Chittibabu Vasudevan, Bureau Director, Bureau A

RE: **Conceptual Approval Memo for Proposed Engineering Standby Contract
Work Assignment Amendment - 123 Post Ave, Site Code #130088**

DATE: November 29, 2007

Site No., Name and Location: Site Code #130088, 123 Post Ave, located in Westbury in the town of North Hempstead, Nassau County, New York.

Program Element: Remedial Design

Project Duration: 24 months

Contractor Preference: Dvirka and Bartilucci is the consultant for the RA/RD and will continue with amended assignment

Estimated WA Budget: To design the remedy for 123 Post Ave based on the March 2004 Record of Decision, the estimated budget is \$345,599 an increase from \$185,167.

Funding Source: State Superfund

Brief Project Description: This project was referred to State Superfund by the DEE on February 9, 2005. The site owner has declined to fund the Remedial Design. The Work Assignment is for consulting services to provide the design details required to construct, operate, and monitor the selected Remedial Action. The Remedial Design will address the off-site contaminated groundwater. The selected remedy is in-situ chemical oxidation. This contamination has impacted the EPA designated sole source aquifer. The original work plan was approved for a

\$209,750 at the Notice To Proceed for contract D003600. The work was transferred to D&B's new contract D004446 with a Budget of \$185,167.

This amendment is to increase the budget from \$185,167 to \$345,549 based on bids received for the pilot test. The pilot study will be conducted by, ARS Technologies. ARS Technologies submitted the low bid, \$198,745. The four bids for the work ranged from \$198,745 to \$396,212. The original estimate, at the Notice to Proceed, for the pilot test was \$60,000. The information gathered from the pilot will be used to determine the design details for full scale Remedial Action.

ec: Nathan Putnam
Guy Bobersky
Walter Parish
Michael Cruden
Donna Weigel
Tim Wolosen

ATTACHMENT 1

SCHEDLE 211's

Schedule 2.11 (a)

Summary of Work Assignment Price
123 Post Avenue Remedial Design

Work Assignment Number D004446-21.1

1.	Direct Salary Costs (Schedules 2.10 (a) and 2.11(b))	\$38,165
2.	Indirect Costs (Schedule 2.10 (g))	\$57,629
3.	Direct Non-Salary Costs (Schedules 2.11 (c) and (d))	\$4,223

Subcontract Costs

Cost-Plus-Fixed-Fee Subcontracts (Schedules 2.11(e))

	<u>Name of Subcontractor</u>	<u>Services To Be Performed</u>	<u>Subcontract Price</u>
4.	Total Cost-Plus-Fixed-Fee Subcontracts		<hr/> \$0

Unit Price Subcontracts (Schedules 2.11(f))

	<u>Name of Subcontractor</u>	<u>Services To Be Performed</u>	<u>Subcontract Price</u>
	Zebra Environmental Corp.	Direct Push Services	\$6,000
	Mitkem Corporation (MBE)	Sample Analysis	\$9,996
	ARS Technologies	Chemical Oxidation Pilot Test	\$198,745
	Jamaica Blueprint Co., Inc. (WBE)	Reproduction Services	\$8,892
5.	Total Unit Price Subcontracts		<hr/> \$223,633
6.	Subcontract Management Fee		\$10,882
7.	Total Subcontract Costs (lines 4 + 5 + 6)		\$234,515
8.	Fixed Fee (Schedule 2.10 (h))		\$11,016
9.	Total Work Assignment Price (lines 1 + 2 + 3 + 7 + 8)		\$345,549

SCHEDULE 2.11 (b)
SUMMARY
123 Post Avenue Remedial Design
WORK ASSIGNMENT NUMBER D004446-21.1

Average NSPE Wage Rates	IX	VIII	VII	VI	V	IV	III	II	I	TOTAL HOURS
as of January 1, 2006	\$61.60	\$54.95	\$51.32	\$45.44	\$36.10	\$33.51	\$29.09	\$23.13	\$18.10	
as of January 1, 2007	\$64.06	\$57.15	\$53.37	\$47.26	\$37.54	\$34.85	\$30.25	\$24.06	\$18.82	
Task 1 - Pilot Test Program	6	0	0	62	46	50	212	30	0	406
Task 2 - Remedial Design	6	12	0	2	108	0	368	164	0	660
Task 3 - Pre-Award Services	8	0	0	32	8	0	48	18	0	114
Total 2006 Hours	4	0	0	50	24	10	80	22	0	190
Total 2007 Hours	16	12	0	46	138	40	548	190	0	990
Total Direct Labor Cost	\$1,271	\$686	\$0	\$4,446	\$6,047	\$1,729	\$18,906	\$5,079	\$0	\$38,165

SCHEDULE 2.11 (b)-1
SUMMARY
123 Post Avenue Remedial Design
WORK ASSIGNMENT NUMBER D004446-21.1

Average NSPE Wage Rates	IX	VIII	VII	VI	V	IV	III	II	I	TOTAL HOURS
as of January 1, 2006	\$61.60	\$54.95	\$51.32	\$45.44	\$36.10	\$33.51	\$29.09	\$23.13	\$18.10	
as of January 1, 2007	\$64.06	\$57.15	\$53.37	\$47.26	\$37.54	\$34.85	\$30.25	\$24.06	\$18.82	
Task 1	0.5	0	0	7	0	0	0	12	0	19.5
Task 2	0.5	0	0	1	0	0	0	14	0	15.5
Task 3	0.5	0	0	1	0	0	0	4	0	5.5
Total 2006 Hours	0.5	0	0	7	0	0	0	12	0	19.5
Total 2007 Hours	1	0	0	2	0	0	0	18	0	21
Total Direct Labor Cost	\$95	\$0	\$0	\$413	\$0	\$0	\$0	\$711	\$0	\$1,218

BREAKDOWN OF ADMINISTRATIVE
LOE HOURS ON SCHEDULE 2.11(b-1)

ADMIN ACTIVITY	WORK PLAN DEVELOPMENT														REVIEW WORK ASSIGNMENT (WA) PROGRESS													
	Conflict of Interest Checks							Prepare 2.11 Schedules							Conduct Progress Reviews							Prepare Monthly Report & Update Schedules						
NSPE	IX	VIII	VII	VI	V	IV	VIII	VII	VI	V	IV	III	II	I	VIII	VII	VI	V	IV	III	VIII	VII	VI	V	IV	III	II	I
TASK 1									6														1					
TASK 2																							1					
TASK 3																							1					
TOTAL	0	0	0	0	0	0	0	0	6	0	0	0	0	0	0	0	0	0	0	0	0	0	3	0	0	0	0	0

ADMIN ACTIVITY	REVIEW WORK ASSIGNMENT (WA) PROGRESS														CAP PREPARATION											
	MBE/WBE Activities								Program Management						Prepare Monthly Cost Control Report & CAP						Oversee CAP					
NSPE	VIII	VII	VI	V	IV	III	II	I	IX	VIII	VII	VI	V	IV	VIII	VII	VI	V	IV	III	II	I	IX	VIII	VII	VI
TASK 1									0.5												12					
TASK 2									0.5												14					
TASK 3									0.5												4					
TOTAL	0	0	0	0	0	0	0	0	1.5	0	0	0	0	0	0	0	0	0	0	0	30	0	0.0	0	0	0

ADMIN ACTIVITY	MISCELLANEOUS																								
	Update NSPE List								Equipment Use and Inventory				Word Proc. and Report Preparation				Total Adm. LOE (hrs)								
NSPE	VIII	VII	VI	V	IV	III	II	I	IV	III	II	I	IV	III	II	I	IX	VIII	VII	VI	V	IV	III	II	I
TASK 1																	0.5			7				12	
TASK 2																	0.5			1				14	
TASK 3																	0.5			1				4	
TOTAL	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1.5	0.0	0.0	9.0	0.0	0.0	0.0	30.0	0.0

SCHEDULE 2.11 (c)
DIRECT NON-SALARY COSTS
SUMMARY
123 Post Avenue Remedial Design
Work Assignment No. D004446-21.1

ITEM	MAXIMUM REIMBURSEMENT RATE	UNIT	ESTIMATED NUMBER OF UNITS	TOTAL ESTIMATED COSTS
IN-HOUSE				
Outside Services*	\$200.00	set	0	\$0.00
Express Mail	\$25.00	package	4	\$100.00
Sample Shipping	\$50.00	shipment	18	\$900.00
Level D Safety Equipment	\$16.62	/person/day	15	\$249.30
TRAVEL				
Transportation (Personal Car)	\$0.445	mile	334	\$148.63
Van Rental	\$100.00	day	6	\$600.00
Gas	\$50.00	day	6	\$300.00
TOTAL DIRECT NON-SALARY COSTS				\$2,297.93

* Includes photo finishing, slides and any other costs not associated with in-house capabilities.

SCHEDULE 2.11 (d) 1

**EQUIPMENT PURCHASED UNDER THE CONTRACT
SUMMARY**

123 Post Avenue Remedial Design
Work Assignment No. D004446-21.1

ITEM	ESTIMATED PURCHASE PRICE	O&M RATE (\$/per month)	TERM OF USAGE (MONTHS)	ESTIMATED USAGE COST (COL. 2 + [3X4])
			TOTAL	\$0.00

Schedule 2.11 (d) 2
Summary

Maximum Reimbursement Rates for Consultant/Subconsultant - Owned Equipment
123 Post Avenue Remedial Design
Work Assignment No. D004446-21.1

ITEM	PURCHASE PRICE X 85%	USAGE RATE (\$/day)	CAPITAL RECOVERY RATE (\$/Unit of Time)	O & M RATE (\$/Unit of Time)	ESTIMATED USAGE (days)	ESTIMATED USAGE COST (Col. 3x6)
						\$0
					TOTAL	\$0

Notes:

Usage Rate = Capital Recovery Rate + O&M rate

The maximum usage rate for an item of equipment reverts to the O&M rate when the total usage reimbursement exceed 85% of the purchase price.

SCHEDULE 2.11 (d) 3
EQUIPMENT
VENDOR RENTED
SUMMARY
 123 Post Avenue Remedial Design
 Work Assignment No. D004446-21.1

ITEM	MAXIMUM REIMBURSEMENT RATE	TIME PERIOD	ESTIMATED USAGE (period of time)	ESTIMATED USAGE COST (Col. 2 X 3)
Century OVA 128	\$125.00	day	0	\$0.00
Photovac Microtip	\$125.00	day	0	\$0.00
MIE Miniram Digital Dust Indicator	\$200.00	week	0	\$0.00
Horiba U22 Water Quality Meter	\$100.00	day	6	\$600.00
Solinst Water Level Indicator	\$25.00	day	0	\$0.00
Generator	\$60.00	day	0	\$0.00
Peristaltic Pump	\$50.00	day	0	\$0.00
Grunfos Pump	\$125.00	day	0	\$0.00
GoMac Helium Meter	\$75.00	day	3	\$225.00
			Total	\$825.00

SCHEDULE 2.11 (d) 4
SUMMARY
EXPENDABLE SUPPLIES
 123 Post Avenue Remedial Design
 Work Assignment No. D004446-21.1

ITEM	ESTIMATED QUANTITY	UNITS	UNIT COST	TOTAL BUDGETED COST (COL. 2 X 3)
Polyethylene tubing	2000	feet	\$0.25	\$500.00
Disposable bailers	0.0	case of 24	\$200.00	\$0.00
			TOTAL	\$500.00

SCHEDULE 2.11 (d) 5
CONSUMABLE SUPPLIES
SUMMARY
123 Post Avenue Remedial Design
Work Assignment No. D004446-21.1

ITEM	ESTIMATED QUANTITY	UNIT COST	TOTAL BUDGETED COST (COL. 2 X 3)
Miscellaneous Supplies	6	\$100.00	\$600.00
		TOTAL	\$600.00

**SCHEDULE 2.11 (f) 1
UNIT PRICE SUBCONTRACTS
SUMMARY
123 Post Avenue Remedial Design
Work Assignment No. D004446-21.1**

<u>NAME OF SUBCONTRACTOR</u>	<u>SERVICES TO BE PERFORMED</u>	<u>SUBCONTRACT PRICE</u>	<u>MANAGEMENT FEE</u>
Zebra Environmental Corporation	Direct Push Services	\$6,000	\$0

<u>Item</u>	<u>Maximum Reimbursement Rate</u>	<u>Estimated No. of Units</u>	<u>Total Estimated Costs</u>
1a Mobilization and demobilization, including site set-up, breakdown, clean-up, repair and site restoration.	\$400 Lump sum	1 Event	\$400
b Non-mobile decontamination pad	\$105 Lump sum	1 Pad	\$105
2 Well set-up	\$10 Per location	9 Locations	\$90
3 Geoprobe System			
Truck/Van/ATV-mounted unit	\$1,150 Per 8-hour day	2 Days	\$2,300
Second crew member	\$195 Per 8-hour day	2 Days	\$390
4 Overtime charge for on-site work	\$75 Per person hour	4 Person hours	\$300
5 Soil vapor probe installation	\$5 Per foot	135 Feet	\$675
6 Groundwater sampling	\$9 Per sample	0 Samples	\$0
7 Flush-mounted manholes	\$55 Per manhole	9 Manholes	\$495
8 Portland cement	\$16 Per bag	4 Bags	\$64
9 Bentonite powder	\$35 Per bag	29 Bags	\$1,015
10 Asphalt patch	\$8 Per bag	2 Bags	\$16
11 Standby time	\$75 Per hour	2 Hours	\$150
SUBTOTAL			\$6,000
SUBCONTRACT MANAGEMENT FEE			\$0
TOTAL			\$6,000

SCHEDULE 2.11 (f) 2
UNIT PRICE SUBCONTRACTS
SUMMARY
 123 Post Avenue Remedial Design
 Work Assignment No. D004446-21.1

NAME OF SUBCONTRACTOR	SERVICES TO BE PERFORMED	SUBCONTRACT PRICE		MANAGEMENT FEE
Mitkem Corporation	Sample Analysis	\$9,996		\$500
<u>Item</u>	<u>Method</u>	Maximum Reimbursement Rate	Estimated Units	Total Estimated Cost
<u>Groundwater</u>				
VOCs (4-week turnaround time)	EPA SOW OLM04.2 (6/00 ASP)	\$74.00 per sample	18	\$1,332.00
Target Analyte List metals	EPA SOW ILM04.0 (6/00 ASP)	\$68.00 per sample	18	\$1,224.00
Chloride		\$15.00 per sample	18	\$270.00
<u>Soil Vapor/Ambient Air</u>				
VOCs	USEPA Method TO-15	\$270.00 per sample	20	\$5,400.00
<u>QA/QC Samples</u>				
<u>Groundwater</u>				
Matrix Spike/Matrix Spike Duplicate/Matrix Spike Blank				
VOCs (4-week turnaround time)	EPA SOW OLM04.2 (6/00 ASP)	\$74.00 per sample	9	\$666.00
Target Analyte List metals	EPA SOW ILM04.0 (6/00 ASP)	\$68.00 per sample	9	\$612.00
<u>Trip Blank</u>				
VOCs (4-week turnaround time)	EPA SOW OLM04.2 (6/00 ASP)	\$74.00 per sample	3	\$222.00
<u>Soil Vapor/Ambient Air</u>				
Blind Duplicate				
VOCs	USEPA Method TO-15	\$270.00 per sample	1	\$270.00
SUBTOTAL				\$9,996.00
SUBCONTRACT MANAGEMENT FEE				\$500
TOTAL				\$10,495.80

SCHEDULE 2.11 (f) 3
UNIT PRICE SUBCONTRACTS
SUMMARY
123 Post Avenue Remedial Design
Work Assignment No. D004446-21.1

<u>NAME OF SUBCONTRACTOR</u>	<u>SERVICES TO BE PERFORMED</u>	<u>SUBCONTRACT PRICE</u>	<u>MANAGEMENT FEE</u>
ARS Technologies	Pilot Test	\$198,745	\$9,937
<u>Item</u>	<u>Maximum Reimbursement Rate</u>	<u>Estimated No. of Units</u>	<u>Total Estimated Costs</u>
Conduct In-situ Chemical Oxidation Pilot Test	\$198,745 per test	1 Test	\$198,745
SUBTOTAL			\$198,745
SUBCONTRACT MANAGEMENT FEE			\$9,937
TOTAL			\$208,682

**SCHEDULE 2.11 (f) 4
UNIT PRICE SUBCONTRACTS
SUMMARY
123 Post Avenue Remedial Design
Work Assignment No. D004446-21.1**

<u>NAME OF SUBCONTRACTOR</u>	<u>SERVICES TO BE PERFORMED</u>	<u>SUBCONTRACT PRICE</u>	<u>MANAGEMENT FEE</u>
Jamaica Blueprint Company, Inc.	Printing	\$8,892	\$445
<u>Item</u>	<u>Maximum Reimbursement Rate</u>	<u>Estimated No. of Units</u>	<u>Total Estimated Costs</u>
Draft Plans and Specifications			
Specifications, 1,000 double-sided sheets each	\$105 per set	7 sets	\$735
Drawing Sets, 10 drawings each	\$14 per set	7 sets	\$95
Draft Final Plans and Specifications			
Specifications, 1,000 double-sided sheets each	\$105 per set	7 sets	\$735
Drawing Sets, 10 drawings each	\$14 per set	7 sets	\$95
Draft Plans and Specifications			
Specifications, 1,000 double-sided sheets each	\$85 per set	77 sets	\$6,541
Drawing Sets, 10 drawings each	\$9 per set	77 sets	\$693
SUBTOTAL			\$8,892
SUBCONTRACT MANAGEMENT FEE			\$445
TOTAL			\$9,337

Project Name: 123 Post Avenue Remedial Design
 Work Assignment No.: D004446-21.1
 Task No./Name: All Tasks
 Complete: 0.00%

SCHEDULE 2.11 (g)
 SUMMARY

Page 1 of 5
 Date Prepared:
 Billing Period:
 Invoice No.:

MONTHLY COST CONTROL REPORT
 SUMMARY OF FISCAL INFORMATION

Expenditure Category	A Costs Claimed This Period	B Paid To Date	C Total Disallowed To Date	D Total Costs Incurred To Date (A+B+B1)	E Estimated Costs To Completion	F Total Work Assignment Price (A+B+E)	G Approved Budget	H Estimated Under/(Over) (G-F)
1. Direct Salary Costs	0.00	0.00	0.00	0.00	0.00	0.00	\$38,165	0.00
2. Indirect	0.00	0.00	0.00	0.00	0.00	0.00	\$57,629	0.00
3. Subtotal Direct Salary Costs and Indirect Costs	0.00	0.00	0.00	0.00	0.00	0.00	\$95,795	0.00
4. Travel	0.00	0.00	0.00	0.00	0.00	0.00	\$1,049	0.00
5. Other Non-Salary Costs	0.00	0.00	0.00	0.00	0.00	0.00	\$3,174	0.00
6. Subtotal Direct Non-Salary Costs	0.00	0.00	0.00	0.00	0.00	0.00	\$4,223	0.00
7. Subcontractors	0.00	0.00	0.00	0.00	0.00	0.00	\$223,633	0.00
7a. Management Fee	0.00	0.00	0.00	0.00	0.00	0.00	\$10,882	0.00
8. Total Work Assignment Cost	0.00	0.00	0.00	0.00	0.00	0.00	\$334,533	0.00
9. Fixed Fee	0.00	0.00	0.00	0.00	0.00	0.00	\$11,016	0.00
10. Total Work Assignment Price	0.00	0.00	0.00	0.00	0.00	0.00	\$345,549	0.00

Project Manager (Engineer) _____

Date _____

Project Name: 123 Post Avenue Remedial Design
 Work Assignment No.: D004446-21.1
 Task No./Name: 1/Pilot Test Program
 Complete: 0.00%

SCHEDULE 2.11 (g)

Page 2 of 5
 Date Prepared:
 Billing Period:
 Invoice No.:

MONTHLY COST CONTROL REPORT
 SUMMARY OF FISCAL INFORMATION

Expenditure Category	A Costs Claimed This Period	B Paid To Date	C Total Disallowed To Date	D Total Costs Incurred To Date (A+B+B1)	E Estimated Costs To Completion	F Total Work Assignment Price (A+B+E)	G Approved Budget	H Estimated Under/(Over) (G-F)
1. Direct Salary Costs	0.00	0.00	0.00	0.00	0.00	0.00	\$13,657	0.00
2. Indirect	0.00	0.00	0.00	0.00	0.00	0.00	\$20,622	0.00
3. Subtotal Direct Salary Costs and Indirect Costs	0.00	0.00	0.00	0.00	0.00	0.00	\$34,279	0.00
4. Travel	0.00	0.00	0.00	0.00	0.00	0.00	\$999	0.00
5. Other Non-Salary Costs	0.00	0.00	0.00	0.00	0.00	0.00	\$3,074	0.00
6. Subtotal Direct Non-Salary Costs	0.00	0.00	0.00	0.00	0.00	0.00	\$4,073	0.00
7. Subcontractors	0.00	0.00	0.00	0.00	0.00	0.00	\$214,741	0.00
7a. Management Fee	0.00	0.00	0.00	0.00	0.00	0.00	\$10,437	0.00
8. Total Work Assignment Cost	0.00	0.00	0.00	0.00	0.00	0.00	\$263,530	0.00
9. Fixed Fee	0.00	0.00	0.00	0.00	0.00	0.00	\$3,942	0.00
10. Total Work Assignment Price	0.00	0.00	0.00	0.00	0.00	0.00	\$267,472	0.00

Project Manager (Engineer) _____

Date _____

Project Name: 123 Post Avenue Remedial Design
 Work Assignment No.: D004446-21
 Work Assignment No.: D004446-21.1
 Complete: 0.00%

SCHEDULE 2.11 (g)

Page 3 of 5
 Date Prepared:
 Billing Period:
 Invoice No.:

MONTHLY COST CONTROL REPORT
 SUMMARY OF FISCAL INFORMATION

Expenditure Category	A Costs Claimed This Period	B Paid To Date	C Total Disallowed To Date	D Total Costs Incurred To Date (A+B+C)	E Estimated Costs To Completion	F Total Work Assignment Price (A+B+E)	G Approved Budget	H Estimated Under/(Over) (G-F)
1. Direct Salary Costs	0.00	0.00	0.00	0.00	0.00	0.00	\$20,298	0.00
2. Indirect	0.00	0.00	0.00	0.00	0.00	0.00	\$30,650	0.00
3. Subtotal Direct Salary Costs and Indirect Costs	0.00	0.00	0.00	0.00	0.00	0.00	\$50,947	0.00
4. Travel	0.00	0.00	0.00	0.00	0.00	0.00	\$0	0.00
5. Other Non-Salary Costs	0.00	0.00	0.00	0.00	0.00	0.00	\$100	0.00
6. Subtotal Direct Non-Salary Costs	0.00	0.00	0.00	0.00	0.00	0.00	\$100	0.00
7. Subcontractors	0.00	0.00	0.00	0.00	0.00	0.00	\$8,892	0.00
7a. Management Fee	0.00	0.00	0.00	0.00	0.00	0.00	\$445	0.00
8. Total Work Assignment Cost	0.00	0.00	0.00	0.00	0.00	0.00	\$60,385	0.00
9. Fixed Fee	0.00	0.00	0.00	0.00	0.00	0.00	\$5,859	0.00
10. Total Work Assignment Price	0.00	0.00	0.00	0.00	0.00	0.00	\$66,244	0.00

Project Manager (Engineer)

Date

Project Name: 123 Post Avenue Remedial Design
 Work Assignment No.: D004446-21.1
 Task No./Name: 3/Pre-Award Services
 Complete: 0.00%

SCHEDULE 2.11 (g)

Page 4 of 5
 Date Prepared:
 Billing Period:
 Invoice No.:

MONTHLY COST CONTROL REPORT
 SUMMARY OF FISCAL INFORMATION

Expenditure Category	A Costs Claimed This Period	B Paid To Date	C Total Disallowed To Date	D Total Costs Incurred To Date (A+B+B1)	E Estimated Costs To Completion	F Total Work Assignment Price (A+B+E)	G Approved Budget	H Estimated Under/(Over) (G-F)
1. Direct Salary Costs	0.00	0.00	0.00	0.00	0.00	0.00	\$4,210	0.00
2. Indirect	0.00	0.00	0.00	0.00	0.00	0.00	\$6,358	0.00
3. Subtotal Direct Salary Costs and Indirect Costs	0.00	0.00	0.00	0.00	0.00	0.00	\$10,568	0.00
4. Travel	0.00	0.00	0.00	0.00	0.00	0.00	\$50	0.00
5. Other Non-Salary Costs	0.00	0.00	0.00	0.00	0.00	0.00	\$0	0.00
6. Subtotal Direct Non-Salary Costs	0.00	0.00	0.00	0.00	0.00	0.00	\$50	0.00
7. Subcontractors	0.00	0.00	0.00	0.00	0.00	0.00	\$0	0.00
7a. Management Fee	0.00	0.00	0.00	0.00	0.00	0.00	\$0	0.00
8. Total Work Assignment Cost	0.00	0.00	0.00	0.00	0.00	0.00	\$10,618	0.00
9. Fixed Fee	0.00	0.00	0.00	0.00	0.00	0.00	\$1,215	0.00
10. Total Work Assignment Price	0.00	0.00	0.00	0.00	0.00	0.00	\$11,833	0.00

Project Manager (Engineer) _____

Date _____

Project Name: 123 Post Avenue Remedial Design
Work Assignment No.: D004446-21.1

SCHEDULE 2.11 (g) SUPPLEMENTAL
MONTHLY COST CONTROL REPORT
SUBCONTRACTS

Page 5 of 5
Date Prepared:
Billing Period:
Invoice No.:

<u>Subcontract Name</u>	<u>Subcontract Costs Claimed This Application Incl. Resubmittals</u>	<u>Subcontract Costs Approved for Payment on Previous Application</u>	<u>Total Subcontract costs to Date (A plus B)</u>	<u>Subcontract Approved Budget</u>	<u>Management Fee Budget</u>	<u>Management Fee Paid</u>	<u>Total Costs To Date</u>
1. Zebra Environmental Corp.	\$0.00	\$0.00	\$0.00	\$6,000	\$0		
2. Mitkem Corporation	\$0.00	\$0.00	\$0.00	\$9,996	\$500		
3. ARS Technologies	\$0.00	\$0.00	\$0.00	\$198,745	\$9,937		
4. Jamaica Blueprint Co., Inc.	\$0.00	\$0.00	\$0.00	\$8,892	\$445		
Total				\$223,633	\$10,882		

Schedule 2.11 (h)

Project Name: 123 Post Avenue Remedial Design
 Work Assignment No.: D004446-21.1

Date Prepared:
 Billing Period
 Invoice No.

Monthly Cost Control Report
 Summary of Labor Hours
 Expended to Date/Estimated To Completion

NSPE Labor Classification	IX EXP/EST	VIII EXP/EST	VII EXP/EST	VI EXP/EST	V EXP/EST	IV EXP/EST	III EXP/EST	I & II EXP/EST	ADMIN/ SUPPORT	TOTAL NUMBER OF DIRECT LABOR HOURS EXP/EST
Task 1	0/ 6	0/ 0	0/ 0	0/ 62	0/ 46	0/ 50	0/ 212	0/ 18	0/ 12	0/ 406
Task 2	0/ 6	0/ 12	0/ 0	0/ 2	0/ 108	0/ 0	0/ 368	0/ 150	0/ 14	0/ 660
Task 3	0/ 8	0/ 0	0/ 0	0/ 32	0/ 8	0/ 0	0/ 48	0/ 14	0/ 4	0/ 114
Total 2006 Hours	0/ 4	0/ 0	0/ 0	0/ 50	0/ 24	0/ 10	0/ 80	0/ 10	0/ 12	0/ 190
Total 2007 Hours	0/ 16	0/ 12	0/ 0	0/ 46	0/ 138	0/ 40	0/ 548	0/ 172	0/ 18	0/ 990
TOTAL HOURS	0/ 20	0/ 12	0/ 0	0/ 96	0/ 162	0/ 50	0/ 628	0/ 182	0/ 30	0/ 1,180

MBE/WBE
 UTILIZATION PLAN
 SUMMARY
 123 Post Avenue Remedial Design
 Work Assignment No. D004446-21.1

<u>Areas to be Subcontracted</u>	<u>Subcontractor Name</u>	<u>MBE/WBE</u>	<u>Total Subcontract Value</u>	<u>% MBE/WBE Utilization</u>
1. Sample Analysis	Mitkem Corporation	MBE	\$9,996	2.9%
2. Reproduction Services	Jamaica Blueprint Co., Inc.	WBE	\$8,892	2.6%
Total MBE Utilization	<u>MBE Subcontract Value</u> Total Contract Value	=	<u>\$9,996</u> \$345,549	2.9%
Total WBE Utilization	<u>WBE Subcontract Value</u> Total Contract Value	=	<u>\$8,892</u> \$345,549	2.6%
Total MBE/WBE Utilization	<u>MBE/WBE Subcontract Value</u> Total Contract Value	=	<u>\$18,888</u> \$345,549	5.5%

From: Lisa Lewis
To: MWright@db-eng.com
Date: 10/30/2007 9:07:26 AM
Subject: RE: Fwd: 123 Post Ave D&B WA 4446-21

Maria-

On the bid summary Nathan gave me, there are four bids shown: ARS, Geo-Cleanse, Panther, and Innovative Environmental. If this information is correct, I think that was sufficient effort on your part, and ARS is approved. I will keep an eye out for the amendment paperwork in the next few weeks.

Lisa

>>> <MWright@db-eng.com> 10/29/2007 6:22 PM >>>

Lisa-

I think that Nathan is just not sure how the procedure is to work - He mentioned to me last week that he was going to get the "amendment started". I said let me know if there is anything you need from me.

I am happy to send you a set of revised 2.11s which will include the cost for ARS - I just was not sure that the cost for ARS was approved - either conceptually or through you since we only received three bids.

Let me know or I will contact Nathan and discuss it with him directly.

Thanks,

Maria Wright, P.E.
Dvirka and Bartilucci Consulting Engineers
330 Crossways Park Drive
Woodbury, NY 11797
(516) 364-9890; 9045 (fax)
MWright@db-eng.com

-----Original Message-----

From: Lisa Lewis [<mailto:lmlewis@gw.dec.state.ny.us>]
Sent: Monday, October 29, 2007 3:59 PM
To: MWright@db-eng.com
Subject: Re: Fwd: 123 Post Ave D&B WA 4446-21

Maria-

I'm not sure who is confused here: me or Nathan. My interpretation is that you need to prepare an amendment like you've done for any other WA. Nathan seems to think that ARS will prepare the "work plan." Nathan gave me a 2.11(a) which had a total cost of \$309,917, but that would have to be corrected, as I noted before.

Please let me know what the story is with this WA...

Thanks,
Lisa

>>> Nathan Putnam 10/26/2007 10:54 AM >>>

Lisa,

I have attached the bid summaries. I believe these are professional services so D&B would not receive management fees for them, unless you say otherwise.

Nathan

>>> Lisa Lewis 10/24/2007 3:34:58 PM >>>

Nathan-

I only need the table of bid totals when the amendment comes in. Also, you can attach the UIS Registry Info for the CA memo if it's acceptable to Sal, but I am forwarding to you in a separate e-mail the Conceptual Approval process that was approved by Dale last October. Attached below is an old set of directions for doing amendments, but steps 1-5 still basically apply. As I told you before, the number of copies submitted, etc. has since changed. It's the same basic procedure that's followed for setting up new work assignments.

Lisa

>>> Nathan Putnam 10/24/2007 1:50 PM >>>

I think they are providing a professional service, and their own work plan for the pilot test. I have their bids/work plans in electronic form on the S drive \\CS1-DATA2\DATA2\DER-SHARE\BURA-REM A\neputnam if you are able to access it.

Do you want just a table of the bid totals or do you need to see the whole submission?

Are the amendment conceptual approvals generated through UIS like the original conceptual approvals or is there a guidance document for this. I have the old August 2005 guidebook otherwise.

Thanks,

Nathan

>>> Lisa Lewis 10/24/2007 10:41:13 AM >>>

Hi Nathan-

This will require an amendment because the price difference is so high. Please prepare a CA memo for the total amount of \$316,153 and get Sal's approval. This includes the amount of money needed to cover the additional \$124,750 and its associated subcontract management fee of \$6,238 for the Pilot Test. Have Maria adjust her 2.11s to allow for the increase in fee, which is not shown on the 2.11(a) you sent me.

I assume ARS Technologies had the lowest bid for the job, but I'll need to see all the quotes when the amendment WP comes in. Let me know if there's any other questions. Oh, and D&B has been informed that all my section needs as far as "paperwork" is a PDF of the work plan. If a PM wants hard copies, he needs to ask the consultant for them directly.

Lisa

Lisa M. Lewis
Contract Manager
NYS Dept. of Environmental Conservation
Division of Environmental Remediation
Bureau of Program Management
Contracts & Payments Section
625 Broadway, 12th Floor
Albany, NY 12233-7012

Phone: (518) 402-9601
Fax: (518) 402-9722
Email: lmlewis@gw.dec.state.ny.us

>>> Ralph Burger 10/24/2007 9:15 AM >>>

Lisa, please respond to Nathan. Nathan, Lisa is back at work and is the contract manager for D&B so she can help you now.

>>> Nathan Putnam 10/24/2007 8:52 AM >>>

Ralph

This WA was for Remedial design with a pilot test. The bids to conduct the pilot came in over the budget estimate. The Old budget total was roughly \$ 209,000 the new estimate is \$ 310,000(attached 2.11 summary). What do I need to send through to get this new amount approved?

Please let me know, Thanks.

Nathan

From: Lisa Lewis
To: Putnam, Nathan
Date: 10/24/2007 10:41:13 AM
Subject: Re: Fwd: 123 Post Ave D&B WA 4446-21

Hi Nathan-

This will require an amendment because the price difference is so high. Please prepare a CA memo for the total amount of \$316,153 and get Sal's approval. This includes the amount of money needed to cover the additional \$124,750 and its associated subcontract management fee of \$6,238 for the Pilot Test. Have Maria adjust her 2.11s to allow for the increase in fee, which is not shown on the 2.11(a) you sent me.

I assume ARS Technologies had the lowest bid for the job, but I'll need to see all the quotes when the amendment WP comes in. Let me know if there's any other questions. Oh, and D&B has been informed that all my section needs as far as "paperwork" is a PDF of the work plan. If a PM wants hard copies, he needs to ask the consultant for them directly.

Lisa

Lisa M. Lewis
Contract Manager
NYS Dept. of Environmental Conservation
Division of Environmental Remediation
Bureau of Program Management
Contracts & Payments Section
625 Broadway, 12th Floor
Albany, NY 12233-7012

Phone: (518) 402-9601
Fax: (518) 402-9722
Email: lmlewis@gw.dec.state.ny.us

>>> Ralph Burger 10/24/2007 9:15 AM >>>

Lisa, please respond to Nathan. Nathan, Lisa is back at work and is the contract manager for D&B so she can help you now.

>>> Nathan Putnam 10/24/2007 8:52 AM >>>

Ralph

This WA was for Remedial design with a pilot test. The bids to conduct the pilot came in over the budget estimate. The Old budget total was roughly \$ 209,000 the new estimate is \$ 310,000(attached 2.11 summary). What do I need to send through to get this new amount approved?

Please let me know, Thanks.

Nathan



**Dvirka
and
Bartilucci**

CONSULTING ENGINEERS

330 Crossways Park Drive, Woodbury, New York 11797-2015
516-364-9890 • 718-460-3634 • Fax: 516-364-9045
e-mail: findingsolutions@db-eng.com

October 11, 2006

Principals

Nicholas J. Bartilucci, P.E.
President

Henry J. Chlupsa, P.E.
Executive Vice President

Steven A. Fangmann, P.E.
Senior Vice President

Richard M. Walka
Senior Vice President

John A. Mirando, P.E.
Vice President

Garrett M. Byrnes, P.E.
Vice President

Anthony O. Conetta, P.E.
Vice President

Dennis F. Koehler, P.E.
Vice President

Joseph H. Marturano
Vice President

Kenneth J. Pritchard, P.E.
Vice President

Theodore S. Pytlar, Jr.
Vice President

Brian M. Veith, P.E.
Vice President

Senior Associates

Thomas P. Fox, P.G.

Robert L. Haynie, P.E.

William D. Merklin, P.E.

Michael Neuberger, P.E.

Kenneth P. Wenz, Jr., C.P.G.

Associates

Joseph F. Baader

Steven M. Cabrera

Rudolph F. Cannavale

Christopher M. Clement

Ellen R. DeOrsay

Stefanos J. Eapen, R.A.

Joseph A. Fioraliso, P.E.

Christopher W. Francis

Michael R. Hofgren

Sean Pepling, P.G.

Edward J. Reilly

Daniel Shabat, P.E.

Charles J. Wachsmuth, P.E.

Ms. Lisa Lewis

Contracts/Payments Section

Bureau of Program Management

Division of Environmental Remediation

New York State Department of Environmental Conservation

625 Broadway, 12th Floor

Albany, NY 12233-7012

Re: Project Transfer Work Plan
123 Post Avenue, Westbury, New York
(Site No. 1-30-088)
Work Assignment #D004446-21
D&B 2599

Dear Ms. Lewis:

The purpose of this letter is to provide a work plan for the transfer of the referenced project from Contract D003600 to Contract D004446. Work completed under Contract D003600 included preparation of draft and final remedial design work plans for the project and implementation of pre-design groundwater sampling. The remaining tasks to be conducted for this project include conducting a pilot test for the selected remedy (in-situ chemical oxidation), preparing remedial design documents (plans and specifications) for public bidding, and providing pre-award assistance to the New York State Department of Environmental Conservation (NYSDEC). The activities that will be conducted as part of each of these tasks are described below. Also presented below are a revised project schedule and budget.

Task 1 – Pilot Test

Soil Vapor Sampling

Based on the results of the recently conducted groundwater sampling, soil vapor samples will be collected at nine locations to evaluate whether significant concentrations of VOCs are migrating from groundwater into the overlying

Ms. Lisa Lewis
Contracts/Payments Section
Bureau of Program Management
Division of Environmental Remediation
New York State Department of Environmental Conservation
October 11, 2006

Page 2

unsaturated zone. As currently planned, three of these sample locations will be along South Fulton Street between Madison Avenue and Lexington Avenue, three locations will be along Lexington Avenue between South Fulton Street and South Grand Street, and three locations will be along Lenox Avenue in the vicinity of existing monitoring well OU2-3.

The soil vapor samples will be collected from a depth of 10 to 12 feet below grade, the approximate depth of building basements. Since these monitoring points may also be utilized during the pilot test, permanent probes will be installed in accordance with NYSDOH guidance using the direct push method.

Prior to sampling, one to three probe volumes will be purged, at a maximum flow rate of 0.2 liters per minute. Each sample will be collected over a period of at least 4 hours, at a maximum flow rate of 0.2 liters per minute. In accordance with NYSDOH guidance, a tracer gas (helium) will be used during sample collection. The helium concentration in soil vapor will be measured immediately after purging to verify the integrity of the soil vapor sampling point. One duplicate and one ambient air sample will also be collected as part of the soil vapor sampling task. The duplicate sample will be collected concurrently with the original sample, using a "T" fitting on the sample tubing.

Each of the eleven samples (nine soil vapor, one duplicate soil vapor and one ambient air) will be analyzed for VOCs using Method TO-15. Standard (4-week) laboratory turnaround time will be utilized for the soil vapor and ambient air samples. Since these results will be used for screening purposes only, batch-certified canisters will be used.

Pilot Test

In order to further evaluate the effectiveness of chemical oxidation for remediation of contaminated groundwater, as well as determine design parameters (i.e., injection well dosage rates, spacing, etc.), a pilot test will be performed. The objectives of the pilot test include the following:

- Determine the optimum number and location of the injection points for full-scale implementation;
- Determine the effective zone of influence of the injection point and whether groundwater mounding will occur due to the injection of oxidant;
- Determine the optimum injection depths;

Ms. Lisa Lewis
Contracts/Payments Section
Bureau of Program Management
Division of Environmental Remediation
New York State Department of Environmental Conservation
October 11, 2006

Page 3

- Determine the optimum injection pressures;
- Determine the optimum mass and volume of oxidant to be injected at each location;
and
- Determine the effect of the oxidant and by-products on groundwater quality.

A Request for Proposal (RFP) package will be prepared for procuring a contractor to conduct the pilot test. A draft solicitation package will be provided to NYSDEC for review and comment. A preliminary cost for the pilot test has been estimated at \$46,000 and is included in the project budget (see enclosed Schedule 2.11 forms). The vendor and actual cost will be determined using the RFP process.

The RFP will require information from the vendors with respect to their experience in conducting treatability studies and pilot studies, and full-scale projects that would provide the data required to verify the applicability of the technology to remediate contamination downgradient of the 123 Post Avenue Site. The RFP will include the following sections: project description; contaminant concentrations and groundwater characteristics (based on existing data); project objectives; scope of work; general requirements; minimum pilot study requirements; injection well construction requirements; minimum monitoring requirements; parameters to be analyzed; safety requirements; QA/QC requirements; proposal submittal requirements; reporting requirements; project schedule; and experience and qualifications.

Each potential vendor will also be provided with a copy of D&B's standard subcontractor agreement and the master agreement with NYSDEC. Once finalized, the RFP package will be sent to subcontractors for bidding. Once received, quotations will be reviewed and recommendations will be provided to NYSDEC with regard to subcontractor selection.

It is anticipated that the pilot study will include the installation of one injection point and three groundwater monitoring wells with monitoring at the new and existing groundwater monitoring wells in close proximity to, and downgradient of the injection point. The injection will likely be performed in one of the areas where the elevated VOC concentrations were detected in groundwater during the recent sampling activities (Lexington Avenue near South Fulton Street or Lenox Avenue near South Grand Street). The exact location for the pilot test will be determined during preparation of the RFP.

Ms. Lisa Lewis
Contracts/Payments Section
Bureau of Program Management
Division of Environmental Remediation
New York State Department of Environmental Conservation
October 11, 2006

Page 4

Groundwater samples will be collected by the subcontractor from the newly installed monitoring wells and three selected existing monitoring wells, if warranted, prior to injection of the oxidant, 24 hours after the injection, and at intervals of 1 week, 2 weeks, 4 weeks and 6 weeks after injection, to evaluate the dispersion of the oxidant and the effectiveness of the oxidant at reducing the contaminants of concern in groundwater samples. Groundwater samples will be collected using low flow procedures and purge water will be contained for discharge to the Nassau County sanitary sewer system. Each sample will be analyzed for VOCs, TAL metals, residual permanganate and chloride. Field parameters, including water level, color, pH, oxidation-reduction potential (ORP), dissolved oxygen (DO) and temperature, will also be measured at the time of sample collection. Following completion of the pilot test, D&B will collect samples from the wells sampled during the pilot test at intervals of 9, 12 and 16 weeks after oxidant injection. These samples will also be collected using low flow procedures and the purge water will also be contained for discharge to the Nassau County sanitary sewer system. The samples will be analyzed for the same parameters that were analyzed during the pilot test, except for residual permanganate, which is a proprietary analysis, with standard (4-week) laboratory turnaround time. Sample results will be included in the Engineering Design Report (described below).

In order to evaluate soil vapor impacts from the pilot test, it is anticipated that four soil vapor monitoring points will be installed by the subcontractor as part of the pilot study. The subcontractor will be required to monitor these points prior to injection, 24 hours after injection and 1 week after injection. Prior to sample collection, the probes will be purged using a photoionization detector (PID) to evaluate, in real time, whether significant levels of VOCs are present in the soil vapor. D&B will monitor the points at 9 weeks and 12 weeks after injection, concurrent with the groundwater sampling. During each sampling event, one ambient air sample will also be collected. Duplicate soil vapor samples will not be collected during these events. As a result, it is anticipated that eight soil vapor samples and two ambient air samples will be collected by D&B and analyzed for VOCs. D&B's sample results will be included in the Engineering Design Report (described below).

D&B will oversee the pilot test and monitoring well construction. After completion of the pilot test, D&B will perform the required groundwater monitoring. D&B's sample results will be included in the Engineering Design Report (described below). The scope of work for the pilot test is subject to change based on further development of the scope of work during preparation of the solicitation for pilot test services.

Ms. Lisa Lewis
Contracts/Payments Section
Bureau of Program Management
Division of Environmental Remediation
New York State Department of Environmental Conservation
October 11, 2006

Page 5

Pilot Test Report

After completion of the pilot test and receipt of the analytical data from the groundwater monitoring, a pilot test report will be prepared by the subcontractor. The report will include a description of the pilot test, notation of any deviations from the work plan, interpretation of the data, and conclusions and recommendations, with special consideration of the factors that may influence the remedial design or full-scale implementation of the selected remedy.

The report will also provide an evaluation and recommendations regarding full-scale oxidant injection (e.g., number, depth and locations of injection points, volume and mass of oxidant required, duration of the full-scale remediation, monitoring requirements, etc.), assuming that the pilot study results demonstrate that the technology will be effective for full-scale implementation. Groundwater sample data will be validated by the subcontractor and the results of the validation will be presented in the Pilot Study Report.

Site Reconnaissance

Task 1 also includes a reconnaissance of the project area to evaluate potential locations for injection wells, monitoring points for groundwater and soil vapor, and staging of equipment and materials that will be required for pilot testing and full-scale implementation of the selected remedy. The reconnaissance will also identify limitations that may impact implementation of the remedy, such as aboveground or underground utilities and existing structures (houses, driveways, etc.). It is assumed that all injection wells will be installed in rights-of-way and will consist of individual injection wells without interconnecting piping and, therefore, no survey work will need to be performed prior to preparation of the Plans and Specifications.

Task 2 – Plans and Specifications

Draft, pre-final and final specifications and drawings will be prepared for the purpose of competitively bidding the remedial construction in conformance with the NYSDEC Standard Contract Documents. The design documents will conform to the selected remedy in the Record of Decision and will conform to New York State laws, rules, regulations and guidelines. As noted below, this task includes optional items that may be conducted at the request of the NYSDEC.

Ms. Lisa Lewis
Contracts/Payments Section
Bureau of Program Management
Division of Environmental Remediation
New York State Department of Environmental Conservation
October 11, 2006

Page 6

The specifications will contain contractor submittal requirements, including preparation of a project schedule; site-specific sampling and analysis plan (SAP), including details for verification sampling analysis and reporting; QA/QC plan; a site-specific health and safety plan (HASP), which will include a community air monitoring plan; and an operations, maintenance and monitoring plan. The specifications will also include requirements for mobilization/demobilization, site preparation and restoration, waste management and disposal, and site security. In addition, the Contract Documents will contain a bid sheet, estimated quantities for each bid item, and a maximum time period for substantial completion and final completion.

The design documents will specify requirements for the following:

- Site preparation;
- Injection of oxidant to treat VOC-contaminated groundwater in the unconsolidated aquifer at predetermined locations and depths;
- Monitoring the success and effectiveness of the remedy;
- Maintenance of traffic (as required);
- Various permit requirements;
- Construction of new groundwater monitoring wells for long-term monitoring of the effectiveness of the remediation;
- Soil vapor and/or indoor air monitoring, if required;
- Noise, odor and dust controls; and
- Site restoration.

Preliminary Design Submittal (30% Complete)

The preliminary design submittal will consist of preliminary drawings and an outline of the specifications, and will be submitted to the NYSDEC when the design is approximately 30% complete. The preliminary drawing set will include a title sheet, index of drawings with symbols and abbreviations, existing conditions plan showing known utilities and preliminary plan showing the area to be targeted for oxidant injection. Five copies of the preliminary design package will be provided to NYSDEC for review and comment.

Ms. Lisa Lewis
Contracts/Payments Section
Bureau of Program Management
Division of Environmental Remediation
New York State Department of Environmental Conservation
October 11, 2006

Supporting documentation, including the basis for design, supporting data, documentation and design calculations, will be summarized in a letter report. The letter report will also identify potentially impacted property owners and property rights, and include a preliminary list of anticipated temporary or permanent easements, rights-of-way and permits necessary to perform the remediation, and identification of non-property permits with which the remediation must be in substantial compliance. It is assumed that NYSDEC will obtain the necessary permits, access agreements and/or easements.

Intermediate Design Submittal (60% Complete)

The intermediate design submittal is an optional task as outlined in the work assignment. If requested by the NYSDEC, an additional draft of the plans and specifications will be submitted when the intermediate design is complete. The estimated cost for this work assignment (see enclosed Schedule 2.11 forms) does not include pricing for Intermediate Design.

Engineering Design Report

A draft Engineering Design Report will be prepared and submitted with the pre-final design as discussed below. The Engineering Design Report will present the results of the pre-design/post-pilot test soil vapor and groundwater sampling, including documentation of field activities, notation of any deviations from the approved work plan, a presentation of the data collected, interpretation of the data and conclusions, and recommendations appropriate to the site, including further investigation, if necessary. The pilot test report will be included as an appendix to the Engineering Design Report.

Additionally, the Engineering Design Report will present a description of the major elements of the project, the basis of design, and assumptions and uncertainties associated with the design effort. A draft Engineering Design Report will be submitted for NYSDEC review and comment. The draft Engineering Design Report will be revised based on NYSDEC comments.

Pre-Final and Final Design Submittal

Upon completion of the design documents, five copies of the pre-final plans and specifications and design report will be submitted to NYSDEC for final review. Each copy of the bid package will include a complete set of drawings, a complete specifications package, bid forms, measurement and payment provisions and NYSDEC Standard Contract Documents.

Ms. Lisa Lewis
Contracts/Payments Section
Bureau of Program Management
Division of Environmental Remediation
New York State Department of Environmental Conservation
October 11, 2006

Page 8

NYSDEC comments will be incorporated into the final plans and specifications. After approval, up to 75 copies of the Contract Documents will be provided to the NYSDEC. In addition, an electronic copy in Portable Document Format (PDF) will be provided. The final drawings and specifications will be sealed and signed by a Professional Engineer licensed to practice in New York State. For budget purposes, it is assumed that each set of the Contract Documents will be comprised of 1,000 double-sided pages and ten 30-inch by 40-inch drawings.

Project Cost Estimate

A detailed construction, operation and maintenance cost estimate for the project will be prepared under this subtask. The estimate will be prepared on a bid item basis, consistent with the bid schedule in the Contract Documents, in order to provide a cost estimate for each bid item. Based upon comments from the NYSDEC, D&B will revise and submit the final cost estimate with the final drawings and specifications.

Citizen Participation Activities

If requested by the NYSDEC, D&B will attend one public meeting to answer questions regarding the project design, construction techniques and project schedule. D&B will also prepare minutes of the meeting and will provide them to the NYSDEC.

Task 3 – Pre-Award Services

D&B will provide pre-award services in conjunction with the competitive bidding of the remedial construction project, if requested by the Department. The services under this task have been organized into three subtasks as described below. It is assumed that advertising for bids and distribution of bid documents and any addenda will be performed by the NYSDEC. D&B will provide assistance, as needed, with the content of advertisements and addenda.

Pre-Bid Conference

D&B will attend and assist the NYSDEC with an on-site pre-bid conference and site walkover. At the pre-bid conference, D&B will emphasize to the prospective bidders important aspects of the project. D&B will prepare and submit meeting minutes for the pre-bid conference and respond to technical questions regarding the plans and specifications.

Ms. Lisa Lewis
Contracts/Payments Section
Bureau of Program Management
Division of Environmental Remediation
New York State Department of Environmental Conservation
October 11, 2006

Page 9

Addenda

D&B will prepare written responses to questions raised at the pre-bid conference and any necessary addenda to the plans and specifications for the timely transmittal by the NYSDEC to the prospective bidders. D&B will provide up to 25 copies of addenda to the NYSDEC for distribution to the bidders. For budget purposes, it is assumed that one addendum will be prepared.

Bid Review

Following the receipt of bids, D&B will perform a technical evaluation of the bids and prepare a tabulation of the bid prices that will be submitted to the NYSDEC. Additionally, as part of this subtask, D&B will review the apparent lowest bidder's technical pre-award submittals to determine conformance with the requirements of the Contract Documents.

Project Schedule

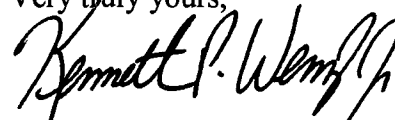
The project schedule is enclosed. Please note that the schedule is based on a work plan approval date of October 16, 2006.

Project Budget

The budget for the tasks described above is provided in the enclosed Schedule 2.11 forms. For estimating purposes, rates for calendar year 2007 have been increased by 4% from the calendar year 2006 rates.

If you have any questions or require any additional information regarding the information in this letter, please contact me at (516) 364-9890.

Very truly yours,



Kenneth P. Wenz, Jr., CPG
Senior Associate

KPWt/jmy
Enclosures
cc: Nathan Putnam (NYSDEC)
♦2599\KPW10116 LL-LTR.DOC

PROJECT SCHEDULE
123 POST AVENUE REMEDIAL DESIGN

<u>Task</u>	<u>Start Date</u>	<u>Duration (weeks)</u>	<u>Completion Date</u>
<u>Task 1 - Pilot Test</u>	10/16/06		
1 Soil Vapor/Ambient Air Sampling ¹		5	11/20/06
2 Area Reconnaissance ²		0	11/20/06
3 Pre-Design Investigation Report ²		2	12/4/06
4 Contractor Procurement			
Preparation of Draft Bid Documents		4	11/13/06
NYSDEC Review		2	11/27/06
Preparation and Transmittal of Final Bid Documents		3	12/18/06
Receipt and Review of Bids		3	1/8/07
Contractor Selection and Contract Execution		2	1/22/07
5 Conduct Pilot Test and Follow-up Sampling		6	3/5/07
6 Draft Pilot Test Report		4	4/2/07
7 NYSDEC and D&B Review of Draft Report		1	4/9/07
8 Final Pilot Test Report		2	4/23/07
9 NYSDEC and D&B Review of Final Report		1	4/30/07
10 Additional Groundwater and Soil Vapor Sampling ^{1,2}		10	5/28/07
<u>Task 2 - Plans and Specifications</u>	4/30/07		
11 Preliminary (30%) Design		6	6/11/07
12 Intermediate (60%) Design (if requested) ³		4	7/9/07
13 Pre-Final and Final Design ³		4	8/6/07
14 Engineering Design Report ²		0	8/6/07
<u>Task 3 - Pre-Award Services</u>			
15 Copying of Bid Documents			4
16 Pre-Bid Conference			4
17 Addendum to Contract Documents (if required)			4
18 Bid Review and Contractor Selection			4

¹ Includes laboratory analysis with 4-week turnaround time.

² Item to be conducted concurrently with other items under this task.

³ It is assumed that NYSDEC review of previous submittals will occur concurrently with this item.

⁴ Schedule to be determined.

Schedule 2.11 (a)

Summary of Work Assignment Price
123 Post Avenue Remedial Design

Work Assignment Number D004446-21

1.	Direct Salary Costs (Schedules 2.10 (a) and 2.11(b))	\$38,165
2.	Indirect Costs (Schedule 2.10 (g))	\$57,629
3.	Direct Non-Salary Costs (Schedules 2.11 (c) and (d))	\$4,223

Subcontract Costs

Cost-Plus-Fixed-Fee Subcontracts (Schedules 2.11(e))

	<u>Name of Subcontractor</u>	<u>Services To Be Performed</u>	<u>Subcontract Price</u>
4.	Total Cost-Plus-Fixed-Fee Subcontracts		<hr/> \$0

Unit Price Subcontracts (Schedules 2.11(f))

	<u>Name of Subcontractor</u>	<u>Services To Be Performed</u>	<u>Subcontract Price</u>
	Zebra Environmental Corp.	Direct Push Services	\$6,000
	Mitkem Corporation (MBE)	Sample Analysis	\$9,996
	To Be Determined	Chemical Oxidation Pilot Test	\$46,000
	Jamaica Blueprint Co., Inc. (WBE)	Reproduction Services	\$8,892
5.	Total Unit Price Subcontracts		<hr/> \$70,888
6.	Subcontract Management Fee		\$3,244
7.	Total Subcontract Costs (lines 4 + 5 + 6)		\$74,133
8.	Fixed Fee (Schedule 2.10 (h))		\$11,016
9.	Total Work Assignment Price (lines 1 + 2 + 3 + 7 + 8)		\$185,167

SCHEDULE 2.11 (b)
SUMMARY
123 Post Avenue Remedial Design
WORK ASSIGNMENT NUMBER D004446-21

Average NSPE Wage Rates	IX	VIII	VII	VI	V	IV	III	II	I	TOTAL HOURS
as of January 1, 2006	\$61.60	\$54.95	\$51.32	\$45.44	\$36.10	\$33.51	\$29.09	\$23.13	\$18.10	
as of January 1, 2007	\$64.06	\$57.15	\$53.37	\$47.26	\$37.54	\$34.85	\$30.25	\$24.06	\$18.82	
Task 1 - Pilot Test Program	6	0	0	62	46	50	212	30	0	406
Task 2 - Remedial Design	6	12	0	2	108	0	368	164	0	660
Task 3 - Pre-Award Services	8	0	0	32	8	0	48	18	0	114
Total 2006 Hours	4	0	0	50	24	10	80	22	0	190
Total 2007 Hours	16	12	0	46	138	40	548	190	0	990
Total Direct Labor Cost	\$1,271	\$686	\$0	\$4,446	\$6,047	\$1,729	\$18,906	\$5,079	\$0	\$38,165

SCHEDULE 2.11 (b)-1
SUMMARY
123 Post Avenue Remedial Design
WORK ASSIGNMENT NUMBER D004446-21

Average NSPE Wage Rates	IX	VIII	VII	VI	V	IV	III	II	I	TOTAL HOURS
as of January 1, 2006	\$61.60	\$54.95	\$51.32	\$45.44	\$36.10	\$33.51	\$29.09	\$23.13	\$18.10	
as of January 1, 2007	\$64.06	\$57.15	\$53.37	\$47.26	\$37.54	\$34.85	\$30.25	\$24.06	\$18.82	
Task 1	0.5	0	0	7	0	0	0	12	0	19.5
Task 2	0.5	0	0	1	0	0	0	14	0	15.5
Task 3	0.5	0	0	1	0	0	0	4	0	5.5
Total 2006 Hours	0.5	0	0	7	0	0	0	12	0	19.5
Total 2007 Hours	1	0	0	2	0	0	0	18	0	21
Total Direct Labor Cost	\$95	\$0	\$0	\$413	\$0	\$0	\$0	\$711	\$0	\$1,218

**BREAKDOWN OF ADMINISTRATIVE
LOE HOURS ON SCHEDULE 2.11(b-1)**

ADMIN ACTIVITY	WORK PLAN DEVELOPMENT														REVIEW WORK ASSIGNMENT (WA) PROGRESS													
	Conflict of Interest Checks						Prepare 2.11 Schedules								Conduct Progress Reviews						Prepare Monthly Report & Update Schedules							
NSPE	IX	VIII	VII	VI	V	IV	VIII	VII	VI	V	IV	III	II	I	VIII	VII	VI	V	IV	III	VIII	VII	VI	V	IV	III	II	I
TASK 1									6														1					
TASK 2																							1					
TASK 3																							1					
TOTAL	0	0	0	0	0	0	0	0	6	0	0	0	0	0	0	0	0	0	0	0	0	0	3	0	0	0	0	0

ADMIN ACTIVITY	REVIEW WORK ASSIGNMENT (WA) PROGRESS														CAP PREPARATION											
	MBE/WBE Activities								Program Management						Prepare Monthly Cost Control Report & CAP						Oversee CAP					
NSPE	VIII	VII	VI	V	IV	III	II	I	IX	VIII	VII	VI	V	IV	VIII	VII	VI	V	IV	III	II	I	IX	VIII	VII	VI
TASK 1									0.5												12					
TASK 2									0.5												14					
TASK 3									0.5												4					
TOTAL	0	0	0	0	0	0	0	0	1.5	0	0	0	0	0	0	0	0	0	0	0	30	0	0.0	0	0	0

ADMIN ACTIVITY	MISCELLANEOUS																								
	Update NSPE List								Equipment Use and Inventory				Word Proc. and Report Preparation				Total Adm. LOE (hrs)								
NSPE	VIII	VII	VI	V	IV	III	II	I	IV	III	II	I	IV	III	II	I	IX	VIII	VII	VI	V	IV	III	II	I
TASK 1																	0.5			7				12	
TASK 2																	0.5			1				14	
TASK 3																	0.5			1				4	
TOTAL	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1.5	0.0	0.0	9.0	0.0	0.0	0.0	30.0	0.0

SCHEDULE 2.11 (c)
DIRECT NON-SALARY COSTS
SUMMARY
123 Post Avenue Remedial Design
Work Assignment No. D004446-21

ITEM	MAXIMUM REIMBURSEMENT RATE	UNIT	ESTIMATED NUMBER OF UNITS	TOTAL ESTIMATED COSTS
IN-HOUSE				
Outside Services*	\$200.00	set	0	\$0.00
Express Mail	\$25.00	package	4	\$100.00
Sample Shipping	\$50.00	shipment	18	\$900.00
Level D Safety Equipment	\$16.62	/person/day	15	\$249.30
TRAVEL				
Transportation (Personal Car)	\$0.445	mile	334	\$148.63
Van Rental	\$100.00	day	6	\$600.00
Gas	\$50.00	day	6	\$300.00
TOTAL DIRECT NON-SALARY COSTS				\$2,297.93

* Includes photo finishing, slides and any other costs not associated with in-house capabilities.

SCHEDULE 2.11 (d) 1

EQUIPMENT PURCHASED UNDER THE CONTRACT
SUMMARY

123 Post Avenue Remedial Design
Work Assignment No. D004446-21

ITEM	ESTIMATED PURCHASE PRICE	O&M RATE (\$/per month)	TERM OF USAGE (MONTHS)	ESTIMATED USAGE COST (COL. 2 + [3X4])
			TOTAL	\$0.00

Schedule 2.11 (d) 2
Summary

Maximum Reimbursement Rates for Consultant/Subconsultant - Owned Equipment
123 Post Avenue Remedial Design
Work Assignment No. D004446-21

ITEM	PURCHASE PRICE X 85%	USAGE RATE (\$/day)	CAPITAL RECOVERY RATE (\$/Unit of Time)	O & M RATE (\$/Unit of Time)	ESTIMATED USAGE (days)	ESTIMATED USAGE COST (Col. 3x6)
						\$0
					TOTAL	\$0

Notes:

Usage Rate = Capital Recovery Rate + O&M rate

The maximum usage rate for an item of equipment reverts to the O&M rate when the total usage reimbursement exceed 85% of the purchase price.

SCHEDULE 2.11 (d) 3
EQUIPMENT
VENDOR RENTED
SUMMARY
123 Post Avenue Remedial Design
Work Assignment No. D004446-21

ITEM	MAXIMUM REIMBURSEMENT RATE	TIME PERIOD	ESTIMATED USAGE (period of time)	ESTIMATED USAGE COST (Col. 2 X 3)
Century OVA 128	\$125.00	day	0	\$0.00
Photovac Microtip	\$125.00	day	0	\$0.00
MIE Miniram Digital Dust Indicator	\$200.00	week	0	\$0.00
Horiba U22 Water Quality Meter	\$100.00	day	6	\$600.00
Solinst Water Level Indicator	\$25.00	day	0	\$0.00
Generator	\$60.00	day	0	\$0.00
Peristaltic Pump	\$50.00	day	0	\$0.00
Grunfos Pump	\$125.00	day	0	\$0.00
GoMac Helium Meter	\$75.00	day	3	\$225.00
Total				\$825.00

SCHEDULE 2.11 (d) 4
SUMMARY
EXPENDABLE SUPPLIES
123 Post Avenue Remedial Design
Work Assignment No. D004446-21

ITEM	ESTIMATED QUANTITY	UNITS	UNIT COST	TOTAL BUDGETED COST (COL. 2 X 3)
Polyethylene tubing	2000	feet	\$0.25	\$500.00
Disposable bailers	0.0	case of 24	\$200.00	\$0.00
			TOTAL	\$500.00

SCHEDULE 2.11 (d) 5
 CONSUMABLE SUPPLIES
 SUMMARY
 123 Post Avenue Remedial Design
 Work Assignment No. D004446-21

ITEM	ESTIMATED QUANTITY	UNIT COST	TOTAL BUDGETED COST (COL. 2 X 3)
Miscellaneous Supplies	6	\$100.00	\$600.00
		TOTAL	\$600.00

**SCHEDULE 2.11 (f) 1
UNIT PRICE SUBCONTRACTS
SUMMARY
123 Post Avenue Remedial Design
Work Assignment No. D004446-21**

<u>NAME OF SUBCONTRACTOR</u>	<u>SERVICES TO BE PERFORMED</u>	<u>SUBCONTRACT PRICE</u>	<u>MANAGEMENT FEE</u>
Zebra Environmental Corporation	Direct Push Services	\$6,000	\$0
<u>Item</u>	<u>Maximum Reimbursement Rate</u>	<u>Estimated No. of Units</u>	<u>Total Estimated Costs</u>
1a Mobilization and demobilization, including site set-up, breakdown, clean-up, repair and site restoration.	\$400 Lump sum	1 Event	\$400
b Non-mobile decontamination pad	\$105 Lump sum	1 Pad	\$105
2 Well set-up	\$10 Per location	9 Locations	\$90
3 Geoprobe System			
Truck/Van/ATV-mounted unit	\$1,150 Per 8-hour day	2 Days	\$2,300
Second crew member	\$195 Per 8-hour day	2 Days	\$390
4 Overtime charge for on-site work	\$75 Per person hour	4 Person hours	\$300
5 Soil vapor probe installation	\$5 Per foot	135 Feet	\$675
6 Groundwater sampling	\$9 Per sample	0 Samples	\$0
7 Flush-mounted manholes	\$55 Per manhole	9 Manholes	\$495
8 Portland cement	\$16 Per bag	4 Bags	\$64
9 Bentonite powder	\$35 Per bag	29 Bags	\$1,015
10 Asphalt patch	\$8 Per bag	2 Bags	\$16
11 Standby time	\$75 Per hour	2 Hours	\$150
SUBTOTAL			\$6,000
SUBCONTRACT MANAGEMENT FEE			\$0
TOTAL			\$6,000

SCHEDULE 2.11 (f) 2
UNIT PRICE SUBCONTRACTS
SUMMARY
123 Post Avenue Remedial Design
Work Assignment No. D004446-21

NAME OF SUBCONTRACTOR	SERVICES TO BE PERFORMED	SUBCONTRACT PRICE		MANAGEMENT FEE
Mitkem Corporation	Sample Analysis	\$9,996		\$500
<u>Item</u>	<u>Method</u>	<u>Maximum Reimbursement Rate</u>	<u>Estimated Units</u>	<u>Total Estimated Cost</u>
<u>Groundwater</u>				
VOCs (4-week turnaround time)	EPA SOW OLM04.2 (6/00 ASP)	\$74.00 per sample	18	\$1,332.00
Target Analyte List metals	EPA SOW ILM04.0 (6/00 ASP)	\$68.00 per sample	18	\$1,224.00
Chloride		\$15.00 per sample	18	\$270.00
<u>Soil Vapor/Ambient Air</u>				
VOCs	USEPA Method TO-15	\$270.00 per sample	20	\$5,400.00
<u>QA/QC Samples</u>				
<u>Groundwater</u>				
Matrix Spike/Matrix Spike Duplicate/Matrix Spike Blank				
VOCs (4-week turnaround time)	EPA SOW OLM04.2 (6/00 ASP)	\$74.00 per sample	9	\$666.00
Target Analyte List metals	EPA SOW ILM04.0 (6/00 ASP)	\$68.00 per sample	9	\$612.00
<u>Trip Blank</u>				
VOCs (4-week turnaround time)	EPA SOW OLM04.2 (6/00 ASP)	\$74.00 per sample	3	\$222.00
<u>Soil Vapor/Ambient Air</u>				
Blind Duplicate				
VOCs	USEPA Method TO-15	\$270.00 per sample	1	\$270.00
SUBTOTAL				\$9,996.00
SUBCONTRACT MANAGEMENT FEE				\$500
TOTAL				\$10,495.80

SCHEDULE 2.11 (f) 3
UNIT PRICE SUBCONTRACTS
SUMMARY
123 Post Avenue Remedial Design
Work Assignment No. D004446-21

<u>NAME OF SUBCONTRACTOR</u>	<u>SERVICES TO BE PERFORMED</u>	<u>SUBCONTRACT PRICE</u>	<u>MANAGEMENT FEE</u>
To Be Determined	Pilot Test	\$46,000	\$2,300
<u>Item</u>	<u>Maximum Reimbursement Rate</u>	<u>Estimated No. of Units</u>	<u>Total Estimated Costs</u>
Conduct In-situ Chemical Oxidation Pilot Test	\$60,000 per test	1 Test	\$46,000
	SUBTOTAL		\$46,000
	SUBCONTRACT MANAGEMENT FEE		\$2,300
	TOTAL		\$48,300

SCHEDULE 2.11 (f) 4
UNIT PRICE SUBCONTRACTS
SUMMARY
123 Post Avenue Remedial Design
Work Assignment No. D004446-21

<u>NAME OF SUBCONTRACTOR</u>	<u>SERVICES TO BE PERFORMED</u>	<u>SUBCONTRACT PRICE</u>	<u>MANAGEMENT FEE</u>
Jamaica Blueprint Company, Inc.	Printing	\$8,892	\$445
<u>Item</u>	<u>Maximum Reimbursement Rate</u>	<u>Estimated No. of Units</u>	<u>Total Estimated Costs</u>
Draft Plans and Specifications			
Specifications, 1,000 double-sided sheets each	\$105 per set	7 sets	\$735
Drawing Sets, 10 drawings each	\$14 per set	7 sets	\$95
Draft Final Plans and Specifications			
Specifications, 1,000 double-sided sheets each	\$105 per set	7 sets	\$735
Drawing Sets, 10 drawings each	\$14 per set	7 sets	\$95
Draft Plans and Specifications			
Specifications, 1,000 double-sided sheets each	\$85 per set	77 sets	\$6,541
Drawing Sets, 10 drawings each	\$9 per set	77 sets	\$693
SUBTOTAL			\$8,892
SUBCONTRACT MANAGEMENT FEE			\$445
TOTAL			\$9,337

Project Name: 123 Post Avenue Remedial Design
 Work Assignment No.: D004446-21
 Task No./Name: All Tasks
 Complete: 0.00%

SCHEDULE 2.11 (g)
SUMMARY

Page 1 of 5
 Date Prepared:
 Billing Period:
 Invoice No.:

MONTHLY COST CONTROL REPORT
 SUMMARY OF FISCAL INFORMATION

Expenditure Category	A Costs Claimed This Period	B Paid To Date	C Total Disallowed To Date	D Total Costs Incurred To Date (A+B+B1)	E Estimated Costs To Completion	F Total Work Assignment Price (A+B+E)	G Approved Budget	H Estimated Under/(Over) (G-F)
1. Direct Salary Costs	0.00	0.00	0.00	0.00	0.00	0.00	\$38,165	0.00
2. Indirect	0.00	0.00	0.00	0.00	0.00	0.00	\$57,629	0.00
3. Subtotal Direct Salary Costs and Indirect Costs	0.00	0.00	0.00	0.00	0.00	0.00	\$95,795	0.00
4. Travel	0.00	0.00	0.00	0.00	0.00	0.00	\$1,049	0.00
5. Other Non-Salary Costs	0.00	0.00	0.00	0.00	0.00	0.00	\$3,174	0.00
6. Subtotal Direct Non-Salary Costs	0.00	0.00	0.00	0.00	0.00	0.00	\$4,223	0.00
7. Subcontractors	0.00	0.00	0.00	0.00	0.00	0.00	\$70,888	0.00
7a. Management Fee	0.00	0.00	0.00	0.00	0.00	0.00	\$3,244	0.00
8. Total Work Assignment Cost	0.00	0.00	0.00	0.00	0.00	0.00	\$174,150	0.00
9. Fixed Fee	0.00	0.00	0.00	0.00	0.00	0.00	\$11,016	0.00
10. Total Work Assignment Price	0.00	0.00	0.00	0.00	0.00	0.00	\$185,167	0.00

Project Manager (Engineer) _____

Date _____

Project Name: 123 Post Avenue Remedial Design
 Work Assignment No.: D004446-21
 Task No./Name: 1/Pilot Test Program
 Complete: 0.00%

SCHEDULE 2.11 (g)

Page 2 of 5
 Date Prepared:
 Billing Period:
 Invoice No.:

MONTHLY COST CONTROL REPORT
 SUMMARY OF FISCAL INFORMATION

Expenditure Category	A Costs Claimed This Period	B Paid To Date	C Total Disallowed To Date	D Total Costs Incurred To Date (A+B+B1)	E Estimated Costs To Completion	F Total Work Assignment Price (A+B+E)	G Approved Budget	H Estimated Under/(Over) (G-F)
1. Direct Salary Costs	0.00	0.00	0.00	0.00	0.00	0.00	\$13,657	0.00
2. Indirect	0.00	0.00	0.00	0.00	0.00	0.00	\$20,622	0.00
3. Subtotal Direct Salary Costs and Indirect Costs	0.00	0.00	0.00	0.00	0.00	0.00	\$34,279	0.00
4. Travel	0.00	0.00	0.00	0.00	0.00	0.00	\$999	0.00
5. Other Non-Salary Costs	0.00	0.00	0.00	0.00	0.00	0.00	\$3,074	0.00
6. Subtotal Direct Non-Salary Costs	0.00	0.00	0.00	0.00	0.00	0.00	\$4,073	0.00
7. Subcontractors	0.00	0.00	0.00	0.00	0.00	0.00	\$61,996	0.00
7a. Management Fee	0.00	0.00	0.00	0.00	0.00	0.00	\$2,800	0.00
8. Total Work Assignment Cost	0.00	0.00	0.00	0.00	0.00	0.00	\$103,148	0.00
9. Fixed Fee	0.00	0.00	0.00	0.00	0.00	0.00	\$3,942	0.00
10. Total Work Assignment Price	0.00	0.00	0.00	0.00	0.00	0.00	\$107,090	0.00

Project Manager (Engineer) _____

Date _____

Project Name: 123 Post Avenue Remedial Design
 Work Assignment No.: D004446-21
 Task No./Name: 2/Remedial Design
 Complete: 0.00%

SCHEDULE 2.11 (g)

Page 3 of 5
 Date Prepared:
 Billing Period:
 Invoice No.:

MONTHLY COST CONTROL REPORT
 SUMMARY OF FISCAL INFORMATION

Expenditure Category	A Costs Claimed This Period	B Paid To Date	C Total Disallowed To Date	D Total Costs Incurred To Date (A+B+B1)	E Estimated Costs To Completion	F Total Work Assignment Price (A+B+E)	G Approved Budget	H Estimated Under/(Over) (G-F)
1. Direct Salary Costs	0.00	0.00	0.00	0.00	0.00	0.00	\$20,298	0.00
2. Indirect	0.00	0.00	0.00	0.00	0.00	0.00	\$30,650	0.00
3. Subtotal Direct Salary Costs and Indirect Costs	0.00	0.00	0.00	0.00	0.00	0.00	\$50,947	0.00
4. Travel	0.00	0.00	0.00	0.00	0.00	0.00	\$0	0.00
5. Other Non-Salary Costs	0.00	0.00	0.00	0.00	0.00	0.00	\$100	0.00
6. Subtotal Direct Non-Salary Costs	0.00	0.00	0.00	0.00	0.00	0.00	\$100	0.00
7. Subcontractors	0.00	0.00	0.00	0.00	0.00	0.00	\$8,892	0.00
7a. Management Fee	0.00	0.00	0.00	0.00	0.00	0.00	\$445	0.00
8. Total Work Assignment Cost	0.00	0.00	0.00	0.00	0.00	0.00	\$60,385	0.00
9. Fixed Fee	0.00	0.00	0.00	0.00	0.00	0.00	\$5,859	0.00
10. Total Work Assignment Price	0.00	0.00	0.00	0.00	0.00	0.00	\$66,244	0.00

Project Manager (Engineer) _____

Date _____

Project Name: 123 Post Avenue Remedial Design
 Work Assignment No.: D004446-21
 Task No./Name: 3/Pre-Award Services
 Complete: 0.00%

SCHEDULE 2.11 (g)

Page 4 of 5
 Date Prepared:
 Billing Period:
 Invoice No.:

MONTHLY COST CONTROL REPORT
 SUMMARY OF FISCAL INFORMATION

Expenditure Category	A Costs Claimed This Period	B Paid To Date	C Total Disallowed To Date	D Total Costs Incurred To Date (A+B+B1)	E Estimated Costs To Completion	F Total Work Assignment Price (A+B+E)	G Approved Budget	H Estimated Under/(Over) (G-F)
1. Direct Salary Costs	0.00	0.00	0.00	0.00	0.00	0.00	\$4,210	0.00
2. Indirect	0.00	0.00	0.00	0.00	0.00	0.00	\$6,358	0.00
3. Subtotal Direct Salary Costs and Indirect Costs	0.00	0.00	0.00	0.00	0.00	0.00	\$10,568	0.00
4. Travel	0.00	0.00	0.00	0.00	0.00	0.00	\$50	0.00
5. Other Non-Salary Costs	0.00	0.00	0.00	0.00	0.00	0.00	\$0	0.00
6. Subtotal Direct Non-Salary Costs	0.00	0.00	0.00	0.00	0.00	0.00	\$50	0.00
7. Subcontractors	0.00	0.00	0.00	0.00	0.00	0.00	\$0	0.00
7a. Management Fee	0.00	0.00	0.00	0.00	0.00	0.00	\$0	0.00
8. Total Work Assignment Cost	0.00	0.00	0.00	0.00	0.00	0.00	\$10,618	0.00
9. Fixed Fee	0.00	0.00	0.00	0.00	0.00	0.00	\$1,215	0.00
10. Total Work Assignment Price	0.00	0.00	0.00	0.00	0.00	0.00	\$11,833	0.00

Project Manager (Engineer)

Date

SCHEDULE 2.11 (g) SUPPLEMENTAL
MONTHLY COST CONTROL REPORT
SUBCONTRACTS

<u>Subcontract Name</u>	<u>Subcontract Costs Claimed This Application Incl. Resubmittals</u>	<u>Subcontract Costs Approved for Payment on Previous Application</u>	<u>Total Subcontract costs to Date (A plus B)</u>	<u>Subcontract Approved Budget</u>	<u>Management Fee Budget</u>	<u>Management Fee Paid</u>	<u>Total Costs To Date</u>
1. Zebra Environmental Corp.	\$0.00	\$0.00	\$0.00	\$6,000	\$0		
2. Mitkem Corporation	\$0.00	\$0.00	\$0.00	\$9,996	\$500		
3. Pilot Test Contractor (TBD)	\$0.00	\$0.00	\$0.00	\$46,000	\$2,300		
4. Jamaica Blueprint Co., Inc.	\$0.00	\$0.00	\$0.00	\$8,892	\$445		
Total				\$70,888	\$3,244		

Schedule 2.11 (h)

Project Name: 123 Post Avenue Remedial Design
 Work Assignment No.: D004446-21

Date Prepared:
 Billing Period
 Invoice No.

Monthly Cost Control Report
 Summary of Labor Hours
 Expended to Date/Estimated To Completion

NSPE Labor Classification	IX EXP/EST	VIII EXP/EST	VII EXP/EST	VI EXP/EST	V EXP/EST	IV EXP/EST	III EXP/EST	I & II EXP/EST	ADMIN/ SUPPORT	TOTAL NUMBER OF DIRECT LABOR HOURS EXP/EST
Task 1	0/ 6	0/ 0	0/ 0	0/ 62	0/ 46	0/ 50	0/ 212	0/ 18	0/ 12	0/ 406
Task 2	0/ 6	0/ 12	0/ 0	0/ 2	0/ 108	0/ 0	0/ 368	0/ 150	0/ 14	0/ 660
Task 3	0/ 8	0/ 0	0/ 0	0/ 32	0/ 8	0/ 0	0/ 48	0/ 14	0/ 4	0/ 114
Total 2006 Hours	0/ 4	0/ 0	0/ 0	0/ 50	0/ 24	0/ 10	0/ 80	0/ 10	0/ 12	0/ 190
Total 2007 Hours	0/ 16	0/ 12	0/ 0	0/ 46	0/ 138	0/ 40	0/ 548	0/ 172	0/ 18	0/ 990
TOTAL HOURS	0/ 20	0/ 12	0/ 0	0/ 96	0/ 162	0/ 50	0/ 628	0/ 182	0/ 30	0/ 1,180

MBE/WBE
UTILIZATION PLAN
SUMMARY
123 Post Avenue Remedial Design
Work Assignment No. D004446-21

<u>Areas to be Subcontracted</u>	<u>Subcontractor Name</u>	<u>MBE/WBE</u>	<u>Total Subcontract Value</u>	<u>% MBE/WBE Utilization</u>
1. Sample Analysis	Mitkem Corporation	MBE	\$9,996	5.4%
2. Reproduction Services	Jamaica Blueprint Co., Inc.	WBE	\$8,892	4.8%
Total MBE Utilization	<u>MBE Subcontract Value</u> Total Contract Value	=	<u>\$9,996</u> \$185,167	5.4%
Total WBE Utilization	<u>WBE Subcontract Value</u> Total Contract Value	=	<u>\$8,892</u> \$185,167	4.8%
Total MBE/WBE Utilization	<u>MBE/WBE Subcontract Value</u> Total Contract Value	=	<u>\$18,888</u> \$185,167	10.2%