

From: "Maria Wright" <MWright@db-eng.com>
To: <lmlewis@gw.dec.state.ny.us>
CC: <neputnam@gw.dec.state.ny.us>
Date: 2/18/2010 12:39 PM
Subject: 123 Post Avenue - OU2
Attachments: addendum1.hw.130088.pdf

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

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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

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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

Page Two

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

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

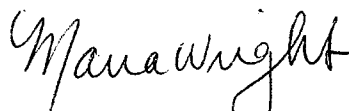
Page Three

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

Item	Estimated Units	Zebra Environmental		ARS Technologies		Total Estimated Cost
		Reimbursement Rate	Estimated Cost	Reimbursement Rate	Estimated Cost	
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	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)	17	\$3,200.00 PER DAY	\$54,400.00	\$2,800.00 PER DAY	47,600.00	
8040DT PROBE	17	(INCLUDED IN ABOVE COSTS)		\$250.00 PER DAY	4,250.00	
SUPPORT VEHICLE						
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: D004446-21

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

<u>Item</u>	<u>Maximum Reimbursement Rate</u>	<u>Estimated No. of Units</u>	<u>Total Estimated Costs</u>
1. A. MOBILIZATION/DEMOBILIZATION, Lump Sum	\$2,000.00	1	\$2,000.00
B. CONSTRUCTION AND REMOVAL OF DECON PAD, Lump Sum	\$900.00	1	\$900.00
C. WELL/BORING SET-UP, Per Well/Boring	\$250.00	9	\$2,250.00
2. HOLLOW STEM AUGER DRILLING			
(1) 0-50 FEET IN DEPTH			
C. 3.25" ID HOLLOW STEM AUGERS, Lineal Foot	\$18.00	450	\$8,100.00
(2) 50-100 FEET IN DEPTH			
B. 3.25" ID HOLLOW STEM AUGERS, Lineal Foot	\$18.00	450	\$8,100.00
(3) 100-200 FEET IN DEPTH			
B. 3.25" ID HOLLOW STEM AUGERS, Lineal Foot	\$22.00	450	\$9,900.00
3. BOREHOLE SAMPLING			
A. SPLIT SPOON SAMPLING			
(1) 2-INCH OD, Per Sample	\$40.00	21	\$840.00
4. BOREHOLE ABANDONMENT			
B. 4 TO 8 INCH DIAMETER BOREHOLE, Per Foot	\$10.00	360	\$3,600.00
4. WELL SCREEN - SCHEDULE 40 PVC			
A. 1" ID, Per Foot	\$4.00		\$0.00
B. 2" ID, Per Foot	\$7.00		\$0.00
5. WELL SCREEN - STAINLESS, SCHEDULE 5, TYPE 304			
A. 2" ID, Per Foot	\$40.00		\$0.00
6. WELL RISER - SCHEDULE 40 PVC			
A. 1" ID, Per Foot	\$3.00		\$0.00
B. 2" ID, Per Foot	\$6.00		\$0.00
7. STAINLESS SCHEDULE 5 TYPE 304			
A. 2" ID, Per Foot	\$30.00		\$0.00
6. WELL SCREEN SANDPACK MATERIAL	Bag (94 lbs.)		\$0.00
7. BENTONITE			
A. PELLETS, 5 Gallon Pail	\$65.00		\$0.00
B. POWDER, Bag (50 lbs.)	\$30.00		\$0.00
8. GROUT			
B. PORTLAND CEMENT TYPE-II, Bag (94 lbs.)	\$18.00		\$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	\$150.00		\$0.00
Per Lock	\$18.00		\$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	Per 55 Gallon Drum	100	\$5,000.00
B. FILLING, MOVING, STAGING 55 GALLON DRUMS ON-SITE ON PALLETS	Per 55 Gallon Drum	100	\$3,000.00
C. MOVE FILLED DRUMS TO SECONDARY LOCATION WITHIN 1 MILE OF DRILL SITE	Per 55 Gallon Drum	100	\$3,500.00
11. WELL DEVELOPMENT (Purging from vertical profile wells)			
B. PUMP AND SURGE (submersible, centrifugal), Per Hour	\$200.00	153	\$30,600.00
12. ON-SITE RESTORATION			
A. TOPSOIL, Cubic Yard	\$30.00		\$0.00
B. GRASS SEEDING, Square Yard	\$15.00		\$0.00
C. ASPHALT PAVING, Bag (60 lbs.)	\$25.00		\$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		<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	\$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		<hr/> \$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)		\$185,166

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	7	0	0	0	12	0	19.5
Task 2	0	0	0	1	0	0	0	20	0	21
Task 3	0	0	0	0	0	0	0	0	0	0
Total 2006 Hours	0.5	0	0	7	0	0	0	12	0	19.5
Total 2007 Hours	0	0	0	1	0	0	0	16	0	17
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	3	0	3
TOTAL	0.5	0	0	8	0	0	0	31	0	39.5
Total Direct Labor Cost	\$31	\$0	\$0	\$367	\$0	\$0	\$0	\$750	\$0	\$1,148

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	II	I		
TASK 1																								
TASK 2																								
TASK 3																								
TOTAL	0	0	0	0	0	0	0	0	0	6	0	0	0	0	0	0	0	0	0	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	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	31	0	0.0	0	0	0	0	0

ADMIN ACTIVITY	MISCELLANEOUS												Total Adm. LOE (hrs)											
	Update NSPE List						Equipment Use and Inventory						Word Proc. and Report Preparation											
NSPE	VIII	VII	VI	V	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													0.0			1					19			
TASK 3													0.0			0					0			
TOTAL	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	0.0	31.0	0.0	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*				
Express Mail	\$200.00	set	0	\$0.00
Sample Shipping	\$25.00	package	5	\$125.00
	\$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) 1

EQUIPMENT PURCHASED UNDER THE CONTRACT SUMMARY

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

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

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

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

UNIT PRICE SUBCONTRACTS

GEOPROBE COMPARISON

123 Post Avenue Site - Operable Unit 2

Work Assignment No. D004446-21.A

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

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

<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

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
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				\$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

<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>
<u>Soil Vapor/Ambient Air</u> VOCs	USEPA Method TO-15 \$195.00 per sample	13	\$2,535.00
SUBTOTAL			\$2,535
SUBCONTRACT MANAGEMENT FEE			\$127
TOTAL			\$2,662

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

<u>NAME OF SUBCONTRACTOR</u>	<u>SERVICES TO BE PERFORMED</u>	<u>SUBCONTRACT PRICE</u>	<u>MANAGEMENT FEE</u>
Jamaica Blueprint Company, Inc.	Printing	\$0	\$0
<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	0 sets	\$0
Drawing Sets, 10 drawings each	\$14 per set	0 sets	\$0
Draft Final Plans and Specifications			
Specifications, 1,000 double-sided sheets each	\$105 per set	0 sets	\$0
Drawing Sets, 10 drawings each	\$14 per set	0 sets	\$0
Draft Plans and Specifications			
Specifications, 1,000 double-sided sheets each	\$85 per set	0 sets	\$0
Drawing Sets, 10 drawings each	\$9 per set	0 sets	\$0
SUBTOTAL			\$0
SUBCONTRACT MANAGEMENT FEE			\$0
TOTAL			\$0

Date

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)	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 (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>Management Fee</u>		<u>Total Costs To Date</u>	
				<u>Approved Budget</u>	<u>Budget</u>	<u>Paid</u>	<u>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		

Schedule 2.11 (h)

Date Prepared:
Billing Period
Invoice No.

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

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/ 2	0/ 8	0/ 0	0/ 0	0/ 322	0/ 60	0/ 108	0/ 44	0/ 20	0/ 564
Task 3	0/ 0	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/ 12	0/ 190
Total 2007 Hours	0/ 2	0/ 0	0/ 0	0/ 12	0/ 22	0/ 40	0/ 132	0/ 8	0/ 16	0/ 216
Total 2008 Hours	0/ 0	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/ 0	0/ 208
Total 2010 Hours	0/ 0	0/ 6	0/ 0	0/ 0	0/ 254	0/ 60	0/ 24	0/ 12	0/ 3	0/ 356
TOTAL HOURS	0/ 8	0/ 8	0/ 0	0/ 62	0/ 368	0/ 110	0/ 320	0/ 94	0/ 31	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(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 (<u>including</u> equipment purchases & rentals; <u>excluding</u> 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) 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

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.

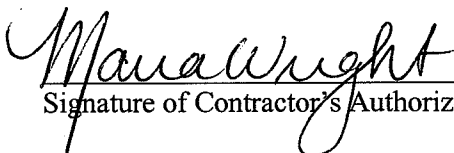
Note: If unable to obtain a sufficient number of quotes, obtain and attach a minimum of 2 responsive quotes. Attach documentation of attempts made to obtain additional quotes **and** an engineer's estimate to support cost reasonableness.

- ☐ 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.



Signature of Contractor's Authorized Representative

2/18/10

Date

Dvirka and Bartilucci Consulting Engineers

Contractor Name

D004446-21A

Contract/WA No.

Mitkem Laboratories

Subcontractor Name

Rev. 02/11/10