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SOIL VAPOR EXTRACTION PILOT TEST WORK PLAN

National Heatset Printing
Babylon, New York

Site Number 1-52-140

Prepared for:

New York State Department of Environmental Conservation
Bureau of Eastern Remedial Action
NYSDEC
625 Broadway
Albany, New York 12233-7015

Prepared by:

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September 2001

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APPROVED
11/14/01

APPROVED
11/19/01

1.0 INTRODUCTION

This Work Plan has been prepared in response to your request for a soil vapor extraction (SVE) system pilot test for the National Heatset Site (Site) in Babylon New York. IT Corporation recommends a SVE system pilot test at the Heatset site for venting of the Heatset building foundation. This Work Plan presents a scope of work for installing the SVE equipment, performing the pilot test and operating the system for one year following the pilot test.

2.0 PRE-SVE WORK SCOPES

Additional work scopes have been identified during the course of site activities. These work scopes were brought to the department for approval and then completed. Specifically these work scopes were:

- Additional drilling efforts to complete wells inside the warehouse building to the confining clay layer depth and
- Indoor air sampling (four air samples) of the warehouse area.

Costs for the scopes are included in the project cost proposal provided in **Appendix A.**

3.0 SVE PILOT TEST SCOPE OF WORK

To determine the effectiveness of SVE at the Site and gather site-specific response a field pilot test will be conducted. The pilot test will be conducted to measure site-specific vacuum and airflow response. This information will then be used to evaluate the effectiveness of an SVE system at removing Volatile Organic Compounds (VOCs), particularly tetrachloroethylene (PCE) from the vadose zone soils beneath the warehouse building.

3.1 Pilot Test

The SVE pilot test will be conducted using Monitoring Well F and temporary vacuum monitoring points that will be installed during the pilot test implementation. Monitoring Well F is an existing monitoring well, located in the northern portion of the Heatset building, constructed of 2-inch schedule-40 PVC with 0.02 slotted screens, screened from approximately 10 to 30-feet below ground surface (bgs).

Six vacuum monitoring points will be installed through the Heatset building foundation using a geoprobe rig and a concrete core. Three of the points (VP-1, VP-2, VP-3) will be located in the northern portion of the building proximate to monitoring well F and three (VP-4, VP-5, VP-6) will be located in the southern portion of the building (**Figure 1-1**). The points installed in the southern portion of the building will investigate the soil quality beneath this portion of the warehouse building and will measure any potential influence created in this area during the pilot test.

Each geoprobe location will require a six-inch diameter core be cut out of the concrete floor to access the soils beneath the floor. Based on previous work at the site it is expected that these cores will be six to eight inches deep. The geoprobe soil cores will be advanced through the six-inch opening in the concrete to a depth of 20 feet below the concrete slab. Soil samples will be collected continuously as the soil core continues to the 20-foot depth. These soil samples will be containerized in sample jars and the headspace of the soils will be field analyzed with a photo-ionization detector (PID). Two soil samples will be sent to the laboratory for VOC compounds from each of the three (VP-4, VP-5, VP-6) southern portion geoprobe locations (total of six soil samples). The laboratory samples will be the soils collected at the water table interface and the soils with the highest field headspace VOC concentrations. Once the soil cores are completed a vapor monitoring point will be installed in each geoprobe location. Each vapor monitoring point will be 1-inch diameter Schedule 40 PVC with 0.020 slotted screens, screened from 10 to 20-feet bgs. One additional indoor air sample will be collected from the unoccupied area of the warehouse prior to the SVE pilot test work.

A 1.5 Horsepower (Hp) regenerative blower will be installed as an SVE blower at the site in a location proximate to the suspected source area (area around monitoring well F). The soil gas extracted through the SVE blower will be piped through two granular activated carbon (GAC) canisters and then vented to the atmosphere through a vent stack attached to the northern warehouse building wall. IT expects that the area north of the source area (previously used for remediation equipment) will be used to house the SVE blower and associated GAC canisters. The area will be inspected prior to installation of the equipment confirm the area is adequate for the SVE equipment. Approximately one week is expected for the installation of the SVE equipment.

Using the SVE blower soil vapor will be extracted from Monitoring Well F in accordance to the procedures presented in **Appendix B**. PVC vacuum piping will be connected to the monitoring well from the blower and used to pull the soil gas from the subsurface. This piping will be installed in the floor slab to avoid impacts the warehouse operations. The vacuum applied to the SVE test well will be recorded using the pressure gauge at the blower and a sample location at the well head. Soil vapor will be extracted at three different flow rates during the testing.

Induced vacuum measurements will be obtained using magnehelic gauges at the six vacuum monitoring points (**Figure 1-1**) in accordance with the procedures provided in **Appendix B**. At each of the three test flow rates, the blower will be allowed to extract air until an apparent steady-state in vacuum response is reached at each vacuum monitoring point or for a period of 2 hours maximum.

The induced vacuum measurements will be used to determine the soil vapor flow characteristics in the area of the SVE well. A PID will be used to qualitatively measure the concentration of VOCs in the soil vapor extracted from monitoring well F. An effluent air sample will be collected at each operating vacuum in a Tedlar bag from Monitoring Well F and analyzed using EPA Method TO14 for VOCs.

Following the pilot testing the SVE blower will continue to operate. This will begin to vent the VOCs from beneath the foundation area and is expected to limit the ability of the VOCs to enter the indoor air.

3.2 Additional Venting Contingency

In the event that significant VOC impacts are detected in the unoccupied area of the site warehouse the following actions will be implemented with NYSDEC written approval.

- Installation of one additional SVE well
- Piping connections to the existing SVE blower system

This system would then be operated in conjunction with the well F system. SVE soil gas flow would be evaluated and adjusted with valves installed in the soil gas extraction piping balancing flow to allow the maximum VOC removal.

3.3 Operation and Maintenance

IT will prepare an Operation and Maintenance (O&M) Plan prior to initiating the pilot test. The O&M plan will describe the O&M tasks, samples, and reporting requirements.

IT will operate and maintain the SVE system for a period of one-year following the pilot test. The O&M of the system will include inspecting the system 2 and 4 weeks following the pilot test and then once a month for the remaining 11 months. During the inspections the following tasks will be completed:

- Visual inspection of the SVE system components (SVE well, blower, carbon, piping)
- Collection of operational data (vacuum, flow, temperature)
- Containerizing any collected liquids (from moisture separator)
- Collection of three air samples (one sample from each of the following locations, the blower discharge prior to GAC units, between the GAC units and the discharge stack).
- Air samples will be field analyzed with a PID for total VOC concentration and a dreager tube for total PCE concentration
- Each air sample will be sent off site for analysis by EPA Method TO14 for VOCs during the first month and then only the discharge sample will be sent off site in following monthly inspections.

The final site inspection (12 months following the pilot test) will be completed in conjunction with personnel from the NYSDEC so that continued O&M can be completed by the department.

3.4 Report Preparation

The results of the pilot test will be summarized in a letter report to be submitted to the NYSDEC approximately 10 business days following receipt of the laboratory data packages. The report will include a summary of the methods, results, and any potential recommendations for future work. At a minimum the SVE Pilot Test letter report will contain a summary of soil vapor extraction rates, induced vacuum, field measured soil vapor concentrations, and laboratory data. A computer model that predicts the radius of influence (ROI) based on site-specific contaminants and desired clean-up time will also be included.

The results of O&M inspections will be provided in a letter report submitted to NYSDEC approximately 10 business days following receipt of the laboratory data packages. This letter report will summarize data collected and results of the site inspections.

4.0 COST ESTIMATE

A cost estimate breakdown is included in **Table 1**. A detailed cost proposal is provided in **Appendix A**. A project schedule has been provided as **Figure 4-1**.

APPENDIX A

COST PROPOSAL

IT Engineering of New York P.C.

SUMMARY OF WORK ASSIGNMENT PRICE
Project Name: National Heatset Printing
Work Assignment #: D003666-29

The following documents provide a summary of Work Assignment costs in the required 2.11 series cost schedules. The following schedules are presented:

- **2.11(a) Summary of Work Assignment Price**
- **2.11(b) Task 1 Overall Summary, and sub-tasks**
- **2.11(b) Task 2 Overall Summary, and sub-tasks**
- **2.11(b) Task 3 Overall Summary, and sub-tasks**
- **2.11(b) Task 4 Overall Summary, and sub-tasks**
- **2.11(b) Task 5 Overall Summary, and sub-tasks**
- **2.11(c) Direct Non-Salary Costs (Travel and Office)**
- **2.11(d) Direct Non-Salary Costs (Equipment and Supplies)**
- **2.11(e) Cost-Plus-Fixed-Fee Subcontracts**
- **2.11(f) Unit Price Subcontracts**
- **2.11(g) Overall Summary of Fiscal Information, with separate schedules for individual tasks**
- **2.11(g) Monthly Cost Control Report for Subcontracts (Supplemental)**
- **2.11(h) Monthly Cost Control Report**

SCHEDULE 2.11(a)
SUMMARY OF WORK ASSIGNMENT PRICE
NATIONAL HEATSET PRINTING
Work Assignment #: D03666-29

1	**Direct Salary Costs (Schedules 2.10(a) and 2.11 (b))**		$111,200
2	**Indirect Costs (Schedule 2.10(a)) [1.63 x (1)]**		$181,256
3	**Direct Non-Salary Costs (Schedules 2.11(c) and (d))**		$43,663
4	**Cost-Plus-Fixed-Fee Subcontracts (Schedule 2.11(e))**		
	Name of Subcontractor	Services to be performed	
	a.) YEC, INC.	Surveying & CAD Mapping	$16,745
	Total Cost-Plus-Fixed-Fee Subcontracts		$16,745
5	**Unit Price Subcontracts (Schedule 2.11(f))**		
	Name of Subcontractor	Services to be performed	
	Eco-Tron	Disposal of Investigation Derived Waste	$6,488
	EDV	Data Validation, DUSR	$2,266
	SJB Services, Inc.	Drilling Services	$45,057
	Mitkem Corporation	Laboratory Analytical	$28,190
	Triangle	Printing/Reproduction	$8,610
	To Be Determined	Electrical Installation	$3,000
	Con-Test	Laboratory Analytical	$1,104
	Zebra Environmental	Geoprobe Services	$2,236
	Total Unit Price Subcontracts		$96,951
6	**Subcontract Management Fee (5% of Tasks in (5) over $10,000)**		$3,662
7	**Total Subcontract Costs (4+5+6)**		$117,358
8	**Fixed Fee (Schedule 2.10(h)) (6.4% of (1+2))**		$18,717
9	**Total Work Assignment Price (1+2+3+7+8)**		$472,195

ENGINEERING CONTRACT #: D003666
Project Name: NATIONAL HEATSET PRINTING
Work Assignment #: D003666-29

IT COST PROPOSAL SUMMARY - TASKS 1 THROUGH 7
INCLUDES SCHEDULES 2.11 (b)1 and 2.11 b

NSPE	VIII	VII	VI	V	IV	III	II	I	Total Hours
1999 Average Rates	$47.07	$39.02	$33.21	$26.40	$23.50	$19.08	$16.91	$13.68	
2000 Average Rates	$48.48	$40.19	$34.21	$29.25	$24.21	$19.66	$17.41	$14.09	
2001 Average Rates	$49.94	$41.39	$35.23	$30.13	$24.93	$20.25	$17.93	$14.51	
2002 Average Rates	$51.44	$42.64	$36.29	$31.03	$25.68	$20.85	$18.47	$14.95	
Task 1 - 1999	0	0	0	0	0	0	0	0	0
Task 1 - 2000	16	224	0	5	15	15	0	60	335
Task 1 - 2001	0	0	0	0	0	0	0	0	0
Task 1 - 2002									
Task 2 - 1999	0	0	0	0	0	0	0	0	0
Task 2 - 2000	16	8	4	234	106	160	50	209	787
Task 2 - 2001	14	68	4	192	296	116	132	30	852
Task 2 - 2002									
Task 3 - 1999	0	0	0	0	0	0	0	0	0
Task 3 - 2000	0	0	0	0	0	0	0	0	0
Task 3 - 2001	20	108	8	536	220	0	170	24	1086
Task 3 - 2002									
Task 4 - 1999	0	0	0	0	0	0	0	0	0
Task 4 - 2000	0	0	0	0	0	0	0	0	0
Task 4 - 2001	5	1	0	8	40	0	20	8	82
Task 4 - 2002									
Task 5 - 1999	0	0	0	0	0	0	0	0	0
Task 5 - 2000	0	0	0	0	0	0	0	0	0
Task 5 - 2001	8	18	0	136	68	0	16	12	258
Task 5 - 2002									
Task 6 - 1999	0	0	0	0	0	0	0	0	0
Task 6 - 2000	0	0	0	0	0	0	0	0	0
Task 6 - 2001	0	14	0	68	54	10	96	0	242
Task 6 - 2002	0	30	0	106	98	74	134	0	442
Task 7 - 1999	0	0	0	0	0	0	0	0	0
Task 7 - 2000	0	0	0	0	0	0	0	0	0
Task 7 - 2001	0	0	0	0	0	0	0	0	0
Task 7 - 2002	0	12	0	32	32	24	10	0	110
SUBTOTAL 1999 HOURS	0	0	0	0	0	0	0	0	0
SUBTOTAL 2000 HOURS	32	232	4	239	121	175	60	269	1122
SUBTOTAL 2001 HOURS	47	209	12	940	678	126	434	74	2520
SUBTOTAL 2002 HOURS	0	42	0	138	130	98	144	0	552
TOTAL HOURS	79	483	16	1317	929	399	628	343	4194
Task 1 - 1999 Direct Labor Costs	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -
Task 2 - 1999 Direct Labor Costs	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -
Task 3 - 1999 Direct Labor Costs	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -
Task 4 - 1999 Direct Labor Costs	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -
Task 5 - 1999 Direct Labor Costs	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -
Task 6 - 1999 Direct Labor Costs	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -
Task 7 - 1999 Direct Labor Costs	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -
SUBTOTAL 1999 DIRECT LABOR COSTS	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -
Task 1 - 2000 Direct Labor Costs	$ 775.68	$ 9,002.56	$ -	$ 146.25	$ 363.15	$ 294.90	$ -	$ 845.40	$ 11,427.94
Task 2 - 2000 Direct Labor Costs	$ 775.68	$ 321.52	$ 136.84	$ 6,844.50	$ 2,566.26	$ 3,145.60	$ 870.50	$2,944.61	$ 17,605.71
Task 3 - 2000 Direct Labor Costs	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -
Task 4 - 2000 Direct Labor Costs	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -
Task 5 - 2000 Direct Labor Costs	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -
Task 6 - 2000 Direct Labor Costs	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -
Task 7 - 2000 Direct Labor Costs	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -
SUBTOTAL 2000 DIRECT LABOR COSTS	$ 1,551.36	$ 9,324.08	$ 136.84	$ 6,990.75	$ 2,929.41	$ 3,440.50	$ 870.50	$3,790.21	$ 29,033.65
Task 1 - 2001 Direct Labor Costs	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -
Task 2 - 2001 Direct Labor Costs	$ 699.16	$ 2,814.52	$ 140.92	$ 5,784.96	$ 7,379.28	$ 2,349.00	$ 2,366.76	$ 435.30	$ 21,969.90
Task 3 - 2001 Direct Labor Costs	$ 998.80	$ 4,470.12	$ 281.84	$ 16,149.68	$ 5,484.60	$ -	$ 3,048.10	$ 348.24	$ 30,781.38
Task 4 - 2001 Direct Labor Costs	$ 249.70	$ 41.39	$ -	$ 241.04	$ 997.20	$ -	$ 358.60	$ 116.08	$ 2,004.01
Task 5 - 2001 Direct Labor Costs	$ 399.52	$ 745.02	$ -	$ 4,097.68	$ 1,695.24	$ -	$ 286.88	$ 174.12	$ 7,398.46
Task 6 - 2001 Direct Labor Costs	$ -	$ 579.46	$ -	$ 2,048.84	$ 1,346.22	$ 202.50	$ 1,721.28	$ -	$ 5,898.30
Task 7 - 2001 Direct Labor Costs	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -
SUBTOTAL 2001 DIRECT LABOR COSTS	$ 2,347.18	$ 8,650.51	$ 422.76	$ 28,322.20	$16,902.54	$ 2,551.50	$ 7,781.62	$1,073.74	$ 68,052.05
Task 1 - 2002 Direct Labor Costs	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -
Task 2 - 2002 Direct Labor Costs	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -
Task 3 - 2002 Direct Labor Costs	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -
Task 4 - 2002 Direct Labor Costs	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -
Task 5 - 2002 Direct Labor Costs	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -
Task 6 - 2002 Direct Labor Costs	$ -	$ 1,279.20	$ -	$ 3,289.18	$ 2,516.64	$ 1,542.90	$ 2,474.98	$ -	$ 11,102.90
Task 7 - 2002 Direct Labor Costs	$ -	$ 511.68	$ -	$ 992.96	$ 821.76	$ 500.40	$ 184.70	$ -	$ 3,011.50
SUBTOTAL 2002 DIRECT LABOR COSTS	$ -	$ 1,790.88	$ -	$ 4,282.14	$ 3,338.40	$ 2,043.30	$ 2,659.68	$ -	$ 14,114.40
TOTAL DIRECT LABOR COSTS	$ 3,898.54	$ 17,974.59	$ 559.60	$ 35,312.95	$19,831.95	$ 5,992.00	$ 8,652.12	$4,863.95	$ 111,200.10

ENGINEERING CONTRACT #: D003666
Project Name: NATIONAL HEATSET PRINTING
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SCHEDULE 2.11(b)1
DIRECT ADMINISTRATIVE LABOR HOURS BUDGETED

NSPE	VIII	VII	VI	V	IV	III	II	I	Total Hours
1999 Average Rates	$47.07	$39.02	$33.21	$28.40	$23.50	$19.08	$16.91	$13.68	
2000 Average Rates	$48.48	$40.19	$34.21	$29.25	$24.21	$19.66	$17.41	$14.09	
2001 Average Rates	$49.94	$41.39	$35.23	$30.13	$24.93	$20.25	$17.93	$14.51	
Task 1 - 1999									
Task 1 - 2000									
Task 1 - 2001									
Task 1 - TOTAL									
Task 2 - 1999									
Task 2 - 2000	6		4	12				17	39
Task 2 - 2001	6		4	12				17	39
Task 2 - TOTAL	12		8	24				34	78
Task 3 - 1999									
Task 3 - 2000									
Task 3 - 2001	8			16				16	40
Task 3 - TOTAL	8			16				16	40
Task 4 - 1999									
Task 4 - 2000									
Task 4 - 2001	4			8				8	20
Task 4 - TOTAL	4			8				8	20
Task 5 - 1999									
Task 5 - 2000									
Task 5 - 2001	8			8				8	24
Task 5 - TOTAL	8			8				8	24
SUBTOTAL 1999 HOURS									
SUBTOTAL 2000 HOURS	6		4	12				17	39
SUBTOTAL 2001 HOURS	26		4	44				49	123
TOTAL HOURS	32		8	56				66	162
Task 1 - 1999 Direct Labor Costs									
Task 2 - 1999 Direct Labor Costs									
Task 3 - 1999 Direct Labor Costs									
Task 4 - 1999 Direct Labor Costs									
Task 5 - 1999 Direct Labor Costs									
SUBTOTAL 1999 DIRECT LABOR COSTS									
Task 1 - 2000 Direct Labor Costs									
Task 2 - 2000 Direct Labor Costs	$290.88		$136.84	$351.00				$239.53	**$1,018.25**
Task 3 - 2000 Direct Labor Costs									
Task 4 - 2000 Direct Labor Costs									
Task 5 - 2000 Direct Labor Costs									
SUBTOTAL 2000 DIRECT LABOR COSTS	$290.88		$136.84	$351.00				$239.53	**$1,018.25**
Task 1 - 2001 Direct Labor Costs									
Task 2 - 2001 Direct Labor Costs	$299.64		$140.92	$361.56				$246.67	**$1,048.79**
Task 3 - 2001 Direct Labor Costs	$399.52			$482.08				$232.16	**$1,113.76**
Task 4 - 2001 Direct Labor Costs	$199.76			$241.04				$116.08	**$556.88**
Task 5 - 2001 Direct Labor Costs	$399.52			$241.04				$116.08	**$756.64**
SUBTOTAL 2001 DIRECT LABOR COSTS	$1,298.44		$140.92	$1,325.72				$710.99	**$3,476.07**
TOTAL DIRECT LABOR COSTS	$1,589.32		$277.76	$1,676.72				$950.52	**$4,494.32**

ENGINEERING CONTRACT #: D003666
Project Name: NATIONAL HEATSET PRINTING
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SCHEDULE 2.11(b)
TASK 1 SUMMARY

NSPE	VIII	VII	VI	V	IV	III	II	I	Total Hours
1999 Average Rates	$47.07	$39.02	$33.21	$28.40	$23.50	$19.08	$16.91	$13.68	
2000 Average Rates	$48.48	$40.19	$34.21	$29.25	$24.21	$19.66	$17.41	$14.09	
2001 Average Rates	$49.94	$41.39	$35.23	$30.13	$24.93	$20.25	$17.93	$14.51	
Task 1 - 1999 Task 1 - 2000 Task 1 - 2001	16	224		5	15	15		60	335
Task 2 - 1999 Task 2 - 2000 Task 2 - 2001									
Task 3 - 1999 Task 3 - 2000 Task 3 - 2001									
Task 4 - 1999 Task 4 - 2000 Task 4 - 2001									
Task 5 - 1999 Task 5 - 2000 Task 5 - 2001									
SUBTOTAL 1999 HOURS									
SUBTOTAL 2000 HOURS	16	224		5	15	15		60	335
SUBTOTAL 2001 HOURS									
TOTAL HOURS	16	224		5	15	15		60	335
SUBTOTAL 1999 DIRECT LABOR COSTS									
SUBTOTAL 2000 DIRECT LABOR COSTS	$775.68	$9,002.56		$146.25	$363.15	$294.90		$845.40	$11,427.94
SUBTOTAL 2001 DIRECT LABOR COSTS									
TOTAL DIRECT LABOR COSTS	$775.68	$9,002.56		$146.25	$363.15	$294.90		$845.40	$11,427.94

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SCHEDULE 2.11(b)

TASK 1, SUBTASK 1 - Background Review/Scoping Meeting (2.1.1)*

* Numbering refers to Work Plan subsection

NSPE	VIII	VII	VI	V	IV	III	II	I	Total Hours
1999 Average Rates	$47.07	$39.02	$33.21	$28.40	$23.50	$19.08	$16.91	$13.68	
2000 Average Rates	$48.48	$40.19	$34.21	$29.25	$24.21	$19.66	$17.41	$14.09	
2001 Average Rates	$49.94	$41.39	$35.23	$30.13	$24.93	$20.25	$17.93	$14.51	
Task 1 - 1999									
Task 1 - 2000		60							60
Task 1 - 2001									
Task 2 - 1999									
Task 2 - 2000									
Task 2 - 2001									
Task 3 - 1999									
Task 3 - 2000									
Task 3 - 2001									
Task 4 - 1999									
Task 4 - 2000									
Task 4 - 2001									
Task 5 - 1999									
Task 5 - 2000									
Task 5 - 2001									
SUBTOTAL 1999 HOURS									
SUBTOTAL 2000 HOURS		60							60
SUBTOTAL 2001 HOURS									
TOTAL HOURS		60							60
SUBTOTAL 1999 DIRECT LABOR COSTS									
SUBTOTAL 2000 DIRECT LABOR COSTS		$2,411.40							$2,411.40
SUBTOTAL 2001 DIRECT LABOR COSTS									
TOTAL DIRECT LABOR COSTS		$2,411.40							$2,411.40

ENGINEERING CONTRACT #: D003666
Project Name: NATIONAL HEATSET PRINTING
Work Assignment #: D003666-29

SCHEDULE 2.11(b)

TASK 1, SUBTASK 2 - Workplan Preparation (2.1.2)*

* Numbering refers to Work Plan subsection

NSPE	VIII	VII	VI	V	IV	III	II	I	Total Hours
1999 Average Rates	$47.07	$39.02	$33.21	$28.40	$23.50	$19.08	$16.91	$13.68	
2000 Average Rates	$48.48	$40.19	$34.21	$29.25	$24.21	$19.66	$17.41	$14.09	
2001 Average Rates	$49.94	$41.39	$35.23	$30.13	$24.93	$20.25	$17.93	$14.51	
Task 1 - 1999 Task 1 - 2000 Task 1 - 2001	16	164		5	15	15		60	275
Task 2 - 1999 Task 2 - 2000 Task 2 - 2001									
Task 3 - 1999 Task 3 - 2000 Task 3 - 2001									
Task 4 - 1999 Task 4 - 2000 Task 4 - 2001									
Task 5 - 1999 Task 5 - 2000 Task 5 - 2001									
SUBTOTAL 1999 HOURS									
SUBTOTAL 2000 HOURS	16	164		5	15	15		60	275
SUBTOTAL 2001 HOURS									
TOTAL HOURS	16	164		5	15	15		60	275
SUBTOTAL 1999 DIRECT LABOR COSTS									
SUBTOTAL 2000 DIRECT LABOR COSTS	$775.68	$6,591.16		$146.25	$363.15	$294.90		$845.40	$9,016.54
SUBTOTAL 2001 DIRECT LABOR COSTS									
TOTAL DIRECT LABOR COSTS	$775.68	$6,591.16		$146.25	$363.15	$294.90		$845.40	$9,016.54

ENGINEERING CONTRACT #: D003666
Project Name: NATIONAL HEATSET PRINTING
Work Assignment #: D003666-29

SCHEDULE 2.11(b)
TASK 2 - PDI SUMMARY

NSPE	VIII	VII	VI	V	IV	III	II	I	Total Hours
1999 Average Rates	$47.07	$39.02	$33.21	$28.40	$23.50	$19.08	$16.91	$13.68	
2000 Average Rates	$48.48	$40.19	$34.21	$29.25	$24.21	$19.66	$17.41	$14.09	
2001 Average Rates	$49.94	$41.39	$35.23	$30.13	$24.93	$20.25	$17.93	$14.51	
Task 1 - 1999									
Task 1 - 2000									
Task 1 - 2001									
Task 2 - 1999									
Task 2 - 2000	10	8		222	106	160	50	192	748
Task 2 - 2001	8	68		180	296	116	132	13	813
Task 3 - 1999									
Task 3 - 2000									
Task 3 - 2001									
Task 4 - 1999									
Task 4 - 2000									
Task 4 - 2001									
Task 5 - 1999									
Task 5 - 2000									
Task 5 - 2001									
SUBTOTAL 1999 HOURS									
SUBTOTAL 2000 HOURS	10	8		222	106	160	50	192	748
SUBTOTAL 2001 HOURS	8	68		180	296	116	132	13	813
TOTAL HOURS	18	76		402	402	276	182	205	1561
SUBTOTAL 1999 DIRECT LABOR COSTS									
SUBTOTAL 2000 DIRECT LABOR COSTS	$484.80	$321.52		$6,493.50	$2,566.26	$3,145.60	$870.50	$2,705.28	$16,587.46
SUBTOTAL 2001 DIRECT LABOR COSTS	$399.52	$2,814.52		$5,423.40	$7,379.28	$2,349.00	$2,366.76	$188.63	$20,921.11
TOTAL DIRECT LABOR COSTS	$884.32	$3,136.04		$11,916.90	$9,945.54	$5,494.60	$3,237.26	$2,893.91	$37,508.57

ENGINEERING CONTRACT #: D003666
Project Name: NATIONAL HEATSET PRINTING
Work Assignment #: D003666-29

SCHEDULE 2.11(b)

TASK 2, SUBTASK 1 - Source Area Investigations (2.2.1.1)*

* Numbering refers to Work Plan subsection

NSPE	VIII	VII	VI	V	IV	III	II	I	Total Hours
1999 Average Rates	$47.07	$39.02	$33.21	$28.40	$23.50	$19.08	$16.91	$13.68	
2000 Average Rates	$48.48	$40.19	$34.21	$29.25	$24.21	$19.66	$17.41	$14.09	
2001 Average Rates	$49.94	$41.39	$35.23	$30.13	$24.93	$20.25	$17.93	$14.51	
Task 1 - 1999									
Task 1 - 2000									
Task 1 - 2001									
Task 2 - 1999									
Task 2 - 2000					40	120			160
Task 2 - 2001									
Task 3 - 1999									
Task 3 - 2000									
Task 3 - 2001									
Task 4 - 1999									
Task 4 - 2000									
Task 4 - 2001									
Task 5 - 1999									
Task 5 - 2000									
Task 5 - 2001									
SUBTOTAL 1999 HOURS									
SUBTOTAL 2000 HOURS					40	120			160
SUBTOTAL 2001 HOURS									
TOTAL HOURS					40	120			160
SUBTOTAL 1999 DIRECT LABOR COSTS									
SUBTOTAL 2000 DIRECT LABOR COSTS					$968.40	$2,359.20			$3,327.60
SUBTOTAL 2001 DIRECT LABOR COSTS									
TOTAL DIRECT LABOR COSTS					$968.40	$2,359.20			$3,327.60

ENGINEERING CONTRACT #: D003666
Project Name: NATIONAL HEATSET PRINTING
Work Assignment #: D003666-29

SCHEDULE 2.11(b)
TASK 2, SUBTASK 2 -Source Area Treatability Study (2.2.1.2)*

* Numbering refers to Work Plan subsection

NSPE	VIII	VII	VI	V	IV	III	II	I	Total Hours
1999 Average Rates	$47.07	$39.02	$33.21	$28.40	$23.50	$19.08	$16.91	$13.68	
2000 Average Rates	$48.48	$40.19	$34.21	$29.25	$24.21	$19.66	$17.41	$14.09	
2001 Average Rates	$49.94	$41.39	$35.23	$30.13	$24.93	$20.25	$17.93	$14.51	
Task 1 - 1999									
Task 1 - 2000									
Task 1 - 2001									
Task 2 - 1999									
Task 2 - 2000				62	26		40	190	318
Task 2 - 2001									
Task 3 - 1999									
Task 3 - 2000									
Task 3 - 2001									
Task 4 - 1999									
Task 4 - 2000									
Task 4 - 2001									
Task 5 - 1999									
Task 5 - 2000									
Task 5 - 2001									
SUBTOTAL 1999 HOURS									
SUBTOTAL 2000 HOURS				62	26		40	190	318
SUBTOTAL 2001 HOURS									
TOTAL HOURS				62	26		40	190	318
SUBTOTAL 1999 DIRECT LABOR COSTS									
SUBTOTAL 2000 DIRECT LABOR COSTS				$1,813.50	$629.46		$696.40	$2,677.10	$5,816.46
SUBTOTAL 2001 DIRECT LABOR COSTS									
TOTAL DIRECT LABOR COSTS				$1,813.50	$629.46		$696.40	$2,677.10	$5,816.46

ENGINEERING CONTRACT #: D003666
Project Name: NATIONAL HEATSET PRINTING
Work Assignment #: D003666-29

SCHEDULE 2.11(b)

TASK 2, SUBTASK 3 - Source Area Delineation Report and Pilot Test Workplan (2.2.1.3)*

* Numbering refers to Work Plan subsection

NSPE	VIII	VII	VI	V	IV	III	II	I	Total Hours
1999 Average Rates	$47.07	$39.02	$33.21	$28.40	$23.50	$19.08	$16.91	$13.68	
2000 Average Rates	$48.48	$40.19	$34.21	$29.25	$24.21	$19.66	$17.41	$14.09	
2001 Average Rates	$49.94	$41.39	$35.23	$30.13	$24.93	$20.25	$17.93	$14.51	
Task 1 - 1999									
Task 1 - 2000									
Task 1 - 2001									
Task 2 - 1999									
Task 2 - 2000	10	8		160	20		10		208
Task 2 - 2001									
Task 3 - 1999									
Task 3 - 2000									
Task 3 - 2001									
Task 4 - 1999									
Task 4 - 2000									
Task 4 - 2001									
Task 5 - 1999									
Task 5 - 2000									
Task 5 - 2001									
SUBTOTAL 1999 HOURS									
SUBTOTAL 2000 HOURS	10	8		160	20		10		**208**
SUBTOTAL 2001 HOURS									
TOTAL HOURS	10	8		160	20		10		**208**
SUBTOTAL 1999 DIRECT LABOR COSTS									
SUBTOTAL 2000 DIRECT LABOR COSTS	$484.80	$321.52		$4,680.00	$484.20		$174.10		$6,144.62
SUBTOTAL 2001 DIRECT LABOR COSTS									
TOTAL DIRECT LABOR COSTS	$484.80	$321.52		$4,680.00	$484.20		$174.10		$6,144.62

ENGINEERING CONTRACT #: D003666
Project Name: NATIONAL HEATSET PRINTING
Work Assignment #: D003666-29

SCHEDULE 2.11(b)

TASK 2, SUBTASK 4 - Conduct Source Area Pilot Test (2.2.1.4)*

* Numbering refers to Work Plan subsection

NSPE	VIII	VII	VI	V	IV	III	II	I	Total Hours
1999 Average Rates	$47.07	$39.02	$33.21	$28.40	$23.50	$19.08	$16.91	$13.68	
2000 Average Rates	$48.48	$40.19	$34.21	$29.25	$24.21	$19.66	$17.41	$14.09	
2001 Average Rates	$49.94	$41.39	$35.23	$30.13	$24.93	$20.25	$17.93	$14.51	
Task 1 - 1999									
Task 1 - 2000									
Task 1 - 2001									
Task 2 - 1999									
Task 2 - 2000									
Task 2 - 2001		16		60		60	20		156
Task 3 - 1999									
Task 3 - 2000									
Task 3 - 2001									
Task 4 - 1999									
Task 4 - 2000									
Task 4 - 2001									
Task 5 - 1999									
Task 5 - 2000									
Task 5 - 2001									
SUBTOTAL 1999 HOURS									
SUBTOTAL 2000 HOURS									
SUBTOTAL 2001 HOURS		16		60		60	20		156
TOTAL HOURS		16		60		60	20		156
SUBTOTAL 1999 DIRECT LABOR COSTS									
SUBTOTAL 2000 DIRECT LABOR COSTS									
SUBTOTAL 2001 DIRECT LABOR COSTS		$662.24		$1,807.80		$1,215.00	$358.60		$4,043.64
TOTAL DIRECT LABOR COSTS		$662.24		$1,807.80		$1,215.00	$358.60		$4,043.64

ENGINEERING CONTRACT #: D003666
Project Name: NATIONAL HEATSET PRINTING
Work Assignment #: D003666-29

SCHEDULE 2.11(b)

TASK 2, SUBTASK 5 - Install Delineation/Aquifer Test Wells (2.2.2.1)*

* Numbering refers to Work Plan subsection

NSPE	VIII	VII	VI	V	IV	III	II	I	Total Hours
1999 Average Rates	$47.07	$39.02	$33.21	$28.40	$23.50	$19.08	$16.91	$13.68	
2000 Average Rates	$48.48	$40.19	$34.21	$29.25	$24.21	$19.66	$17.41	$14.09	
2001 Average Rates	$49.94	$41.39	$35.23	$30.13	$24.93	$20.25	$17.93	$14.51	
Task 1 - 1999									
Task 1 - 2000									
Task 1 - 2001									
Task 2 - 1999									
Task 2 - 2000					12	40			52
Task 2 - 2001									
Task 3 - 1999									
Task 3 - 2000									
Task 3 - 2001									
Task 4 - 1999									
Task 4 - 2000									
Task 4 - 2001									
Task 5 - 1999									
Task 5 - 2000									
Task 5 - 2001									
SUBTOTAL 1999 HOURS									
SUBTOTAL 2000 HOURS					12	40			**52**
SUBTOTAL 2001 HOURS									
TOTAL HOURS					12	40			**52**
SUBTOTAL 1999 DIRECT LABOR COSTS									
SUBTOTAL 2000 DIRECT LABOR COSTS					$290.52	$786.40			$1,076.92
SUBTOTAL 2001 DIRECT LABOR COSTS									
TOTAL DIRECT LABOR COSTS					$290.52	$786.40			$1,076.92

ENGINEERING CONTRACT #: D003666
Project Name: NATIONAL HEATSET PRINTING
Work Assignment #: D003666-29

SCHEDULE 2.11(b)
TASK 2, SUBTASK 6 - Pump Test Discharge Permit (2.2.2.2)*

* Numbering refers to Work Plan subsection

NSPE	VIII	VII	VI	V	IV	III	II	I	Total Hours
1999 Average Rates	$47.07	$39.02	$33.21	$28.40	$23.50	$19.08	$16.91	$13.68	
2000 Average Rates	$48.48	$40.19	$34.21	$29.25	$24.21	$19.66	$17.41	$14.09	
2001 Average Rates	$49.94	$41.39	$35.23	$30.13	$24.93	$20.25	$17.93	$14.51	
Task 1 - 1999									
Task 1 - 2000									
Task 1 - 2001									
Task 2 - 1999									
Task 2 - 2000					8			2	10
Task 2 - 2001									
Task 3 - 1999									
Task 3 - 2000									
Task 3 - 2001									
Task 4 - 1999									
Task 4 - 2000									
Task 4 - 2001									
Task 5 - 1999									
Task 5 - 2000									
Task 5 - 2001									
SUBTOTAL 1999 HOURS									
SUBTOTAL 2000 HOURS					8			2	10
SUBTOTAL 2001 HOURS									
TOTAL HOURS					8			2	10
SUBTOTAL 1999 DIRECT LABOR COSTS									
SUBTOTAL 2000 DIRECT LABOR COSTS					$193.68			$28.18	$221.86
SUBTOTAL 2001 DIRECT LABOR COSTS									
TOTAL DIRECT LABOR COSTS					$193.68			$28.18	$221.86

ENGINEERING CONTRACT #: D003666
Project Name: NATIONAL HEATSET PRINTING
Work Assignment #: D003666-29

SCHEDULE 2.11(b)

TASK 2, SUBTASK 7 -Aquifer Pump Test Implementation (2.2.2.3)*

* Numbering refers to Work Plan subsection

NSPE	VIII	VII	VI	V	IV	III	II	I	Total Hours
1999 Average Rates	$47.07	$39.02	$33.21	$28.40	$23.50	$19.08	$16.91	$13.68	
2000 Average Rates	$48.48	$40.19	$34.21	$29.25	$24.21	$19.66	$17.41	$14.09	
2001 Average Rates	$49.94	$41.39	$35.23	$30.13	$24.93	$20.25	$17.93	$14.51	
Task 1 - 1999									
Task 1 - 2000									
Task 1 - 2001									
Task 2 - 1999									
Task 2 - 2000									
Task 2 - 2001		8			96	56	72		232
Task 3 - 1999									
Task 3 - 2000									
Task 3 - 2001									
Task 4 - 1999									
Task 4 - 2000									
Task 4 - 2001									
Task 5 - 1999									
Task 5 - 2000									
Task 5 - 2001									
SUBTOTAL 1999 HOURS									
SUBTOTAL 2000 HOURS									
SUBTOTAL 2001 HOURS		8			96	56	72		232
TOTAL HOURS		8			96	56	72		232
SUBTOTAL 1999 DIRECT LABOR COSTS									
SUBTOTAL 2000 DIRECT LABOR COSTS									
SUBTOTAL 2001 DIRECT LABOR COSTS		$331.12			$2,393.28	$1,134.00	$1,290.96		$5,149.36
TOTAL DIRECT LABOR COSTS		$331.12			$2,393.28	$1,134.00	$1,290.96		$5,149.36

ENGINEERING CONTRACT #: D003666
Project Name: NATIONAL HEATSET PRINTING
Work Assignment #: D003666-29

SCHEDULE 2.11(b)

TASK 2, SUBTASK 8 - Source Area Engineering Report and 35% Design (2.2.6.2)*

* Numbering refers to Work Plan subsection

NSPE	VIII	VII	VI	V	IV	III	II	I	Total Hours
1999 Average Rates	$47.07	$39.02	$33.21	$28.40	$23.50	$19.08	$16.91	$13.68	
2000 Average Rates	$48.48	$40.19	$34.21	$29.25	$24.21	$19.66	$17.41	$14.09	
2001 Average Rates	$49.94	$41.39	$35.23	$30.13	$24.93	$20.25	$17.93	$14.51	
Task 1 - 1999									
Task 1 - 2000									
Task 1 - 2001									
Task 2 - 1999									
Task 2 - 2000									
Task 2 - 2001	4	4			120		20	8	156
Task 3 - 1999									
Task 3 - 2000									
Task 3 - 2001									
Task 4 - 1999									
Task 4 - 2000									
Task 4 - 2001									
Task 5 - 1999									
Task 5 - 2000									
Task 5 - 2001									
SUBTOTAL 1999 HOURS									
SUBTOTAL 2000 HOURS									
SUBTOTAL 2001 HOURS	4	4			120		20	8	**156**
TOTAL HOURS	4	4			120		20	8	**156**
SUBTOTAL 1999 DIRECT LABOR COSTS									
SUBTOTAL 2000 DIRECT LABOR COSTS									
SUBTOTAL 2001 DIRECT LABOR COSTS	$199.76	$165.56			$2,991.60		$358.60	$116.08	$3,831.60
TOTAL DIRECT LABOR COSTS	$199.76	$165.56			$2,991.60		$358.60	$116.08	$3,831.60

ENGINEERING CONTRACT #: D003666
Project Name: NATIONAL HEATSET PRINTING
Work Assignment #: D003666-29

SCHEDULE 2.11(b)

TASK 2, SUBTASK 9 - P&T/Recirculation Well Engineering Reports and 35% Designs (2.2.6.3)*

* Numbering refers to Work Plan subsection

NSPE	VIII	VII	VI	V	IV	III	II	I	Total Hours
1999 Average Rates	$47.07	$39.02	$33.21	$28.40	$23.50	$19.08	$16.91	$13.68	
2000 Average Rates	$48.48	$40.19	$34.21	$29.25	$24.21	$19.66	$17.41	$14.09	
2001 Average Rates	$49.94	$41.39	$35.23	$30.13	$24.93	$20.25	$17.93	$14.51	
Task 1 - 1999									
Task 1 - 2000									
Task 1 - 2001									
Task 2 - 1999									
Task 2 - 2000									
Task 2 - 2001	4	40		120	80		20	5	269
Task 3 - 1999									
Task 3 - 2000									
Task 3 - 2001									
Task 4 - 1999									
Task 4 - 2000									
Task 4 - 2001									
Task 5 - 1999									
Task 5 - 2000									
Task 5 - 2001									
SUBTOTAL 1999 HOURS									
SUBTOTAL 2000 HOURS									
SUBTOTAL 2001 HOURS	4	40		120	80		20	5	**269**
TOTAL HOURS	4	40		120	80		20	5	**269**
SUBTOTAL 1999 DIRECT LABOR COSTS									
SUBTOTAL 2000 DIRECT LABOR COSTS									
SUBTOTAL 2001 DIRECT LABOR COSTS	$199.76	$1,655.60		$3,615.60	$1,994.40		$358.60	$72.55	$7,896.51
TOTAL DIRECT LABOR COSTS	$199.76	$1,655.60		$3,615.60	$1,994.40		$358.60	$72.55	$7,896.51

ENGINEERING CONTRACT #: D003666
Project Name: NATIONAL HEATSET PRINTING
Work Assignment #: D003666-29

SCHEDULE 2.11(b)
TASK 3 SUMMARY

NSPE	VIII	VII	VI	V	IV	III	II	I	Total Hours
1999 Average Rates	$47.07	$39.02	$33.21	$28.40	$23.50	$19.08	$16.91	$13.68	
2000 Average Rates	$48.48	$40.19	$34.21	$29.25	$24.21	$19.66	$17.41	$14.09	
2001 Average Rates	$49.94	$41.39	$35.23	$30.13	$24.93	$20.25	$17.93	$14.51	
Task 1 - 1999									
Task 1 - 2000									
Task 1 - 2001									
Task 2 - 1999									
Task 2 - 2000									
Task 2 - 2001									
Task 3 - 1999									
Task 3 - 2000									
Task 3 - 2001	12	108	8	520	220		170	8	1046
Task 4 - 1999									
Task 4 - 2000									
Task 4 - 2001									
Task 5 - 1999									
Task 5 - 2000									
Task 5 - 2001									
SUBTOTAL 1999 HOURS									
SUBTOTAL 2000 HOURS									
SUBTOTAL 2001 HOURS	12	108	8	520	220		170	8	1046
TOTAL HOURS	12	108	8	520	220		170	8	1046
SUBTOTAL 1999 DIRECT LABOR COSTS									
SUBTOTAL 2000 DIRECT LABOR COSTS									
SUBTOTAL 2001 DIRECT LABOR COSTS	$599.28	$4,470.12	$281.84	$15,667.60	$5,484.60		$3,048.10	$116.08	$29,667.62
TOTAL DIRECT LABOR COSTS	$599.28	$4,470.12	$281.84	$15,667.60	$5,484.60		$3,048.10	$116.08	$29,667.62

ENGINEERING CONTRACT #: D003666
Project Name: NATIONAL HEATSET PRINTING
Work Assignment #: D003666-29

SCHEDULE 2.11(b)

TASK 3, SUBTASK 1 - Preliminary Source Area 65% Design (2.3.1)*

* Numbering refers to Work Plan subsection

NSPE	VIII	VII	VI	V	IV	III	II	I	Total Hours
1999 Average Rates	$47.07	$39.02	$33.21	$28.40	$23.50	$19.08	$16.91	$13.68	
2000 Average Rates	$48.48	$40.19	$34.21	$29.25	$24.21	$19.66	$17.41	$14.09	
2001 Average Rates	$49.94	$41.39	$35.23	$30.13	$24.93	$20.25	$17.93	$14.51	
Task 1 - 1999									
Task 1 - 2000									
Task 1 - 2001									
Task 2 - 1999									
Task 2 - 2000									
Task 2 - 2001									
Task 3 - 1999									
Task 3 - 2000									
Task 3 - 2001		20		80	100		10		210
Task 4 - 1999									
Task 4 - 2000									
Task 4 - 2001									
Task 5 - 1999									
Task 5 - 2000									
Task 5 - 2001									
SUBTOTAL 1999 HOURS									
SUBTOTAL 2000 HOURS									
SUBTOTAL 2001 HOURS		20		80	100		10		**210**
TOTAL HOURS		20		80	100		10		**210**
SUBTOTAL 1999 DIRECT LABOR COSTS									
SUBTOTAL 2000 DIRECT LABOR COSTS									
SUBTOTAL 2001 DIRECT LABOR COSTS		$827.80		$2,410.40	$2,493.00		$179.30		$5,910.50
TOTAL DIRECT LABOR COSTS		$827.80		$2,410.40	$2,493.00		$179.30		$5,910.50

ENGINEERING CONTRACT #: D003666
Project Name: NATIONAL HEATSET PRINTING
Work Assignment #: D003666-29

SCHEDULE 2.11(b)
TASK 3, SUBTASK 2 - Final Source Area Design (2.3.2)*

* Numbering refers to Work Plan subsection

NSPE	VIII	VII	VI	V	IV	III	II	I	Total Hours
1999 Average Rates	$47.07	$39.02	$33.21	$28.40	$23.50	$19.08	$16.91	$13.68	
2000 Average Rates	$48.48	$40.19	$34.21	$29.25	$24.21	$19.66	$17.41	$14.09	
2001 Average Rates	$49.94	$41.39	$35.23	$30.13	$24.93	$20.25	$17.93	$14.51	
Task 1 - 1999									
Task 1 - 2000									
Task 1 - 2001									
Task 2 - 1999									
Task 2 - 2000									
Task 2 - 2001									
Task 3 - 1999									
Task 3 - 2000									
Task 3 - 2001	2	8		40	20		40		110
Task 4 - 1999									
Task 4 - 2000									
Task 4 - 2001									
Task 5 - 1999									
Task 5 - 2000									
Task 5 - 2001									
SUBTOTAL 1999 HOURS									
SUBTOTAL 2000 HOURS									
SUBTOTAL 2001 HOURS	2	8		40	20		40		**110**
TOTAL HOURS	2	8		40	20		40		**110**
SUBTOTAL 1999 DIRECT LABOR COSTS									
SUBTOTAL 2000 DIRECT LABOR COSTS									
SUBTOTAL 2001 DIRECT LABOR COSTS	$99.88	$331.12		$1,205.20	$498.60		$717.20		$2,852.00
TOTAL DIRECT LABOR COSTS	$99.88	$331.12		$1,205.20	$498.60		$717.20		$2,852.00

ENGINEERING CONTRACT #: D003666
Project Name: NATIONAL HEATSET PRINTING
Work Assignment #: D003666-29

SCHEDULE 2.11(b)

TASK 3, SUBTASK 3 - Preliminary P&T/Recirculation Well 65% Designs (2.3.1)*

* Numbering refers to Work Plan subsection

NSPE	VIII	VII	VI	V	IV	III	II	I	Total Hours
1999 Average Rates	$47.07	$39.02	$33.21	$28.40	$23.50	$19.08	$16.91	$13.68	
2000 Average Rates	$48.48	$40.19	$34.21	$29.25	$24.21	$19.66	$17.41	$14.09	
2001 Average Rates	$49.94	$41.39	$35.23	$30.13	$24.93	$20.25	$17.93	$14.51	
Task 1 - 1999									
Task 1 - 2000									
Task 1 - 2001									
Task 2 - 1999									
Task 2 - 2000									
Task 2 - 2001									
Task 3 - 1999									
Task 3 - 2000									
Task 3 - 2001	4	40		240	60		40		384
Task 4 - 1999									
Task 4 - 2000									
Task 4 - 2001									
Task 5 - 1999									
Task 5 - 2000									
Task 5 - 2001									
SUBTOTAL 1999 HOURS									
SUBTOTAL 2000 HOURS									
SUBTOTAL 2001 HOURS	4	40		240	60		40		384
TOTAL HOURS	4	40		240	60		40		384
SUBTOTAL 1999 DIRECT LABOR COSTS									
SUBTOTAL 2000 DIRECT LABOR COSTS									
SUBTOTAL 2001 DIRECT LABOR COSTS	$199.76	$1,655.60		$7,231.20	$1,495.80		$717.20		$11,299.56
TOTAL DIRECT LABOR COSTS	$199.76	$1,655.60		$7,231.20	$1,495.80		$717.20		$11,299.56

ENGINEERING CONTRACT #: D003666
Project Name: NATIONAL HEATSET PRINTING
Work Assignment #: D003666-29

SCHEDULE 2.11(b)

TASK 3, SUBTASK 4 - Final P&T/Recirculation Well Designs (2.3.2)*

* Numbering refers to Work Plan subsection

NSPE	VIII	VII	VI	V	IV	III	II	I	Total Hours
1999 Average Rates	$47.07	$39.02	$33.21	$28.40	$23.50	$19.08	$16.91	$13.68	
2000 Average Rates	$48.48	$40.19	$34.21	$29.25	$24.21	$19.66	$17.41	$14.09	
2001 Average Rates	$49.94	$41.39	$35.23	$30.13	$24.93	$20.25	$17.93	$14.51	
Task 1 - 1999									
Task 1 - 2000									
Task 1 - 2001									
Task 2 - 1999									
Task 2 - 2000									
Task 2 - 2001									
Task 3 - 1999									
Task 3 - 2000									
Task 3 - 2001	4	32	8	120	40		40		244
Task 4 - 1999									
Task 4 - 2000									
Task 4 - 2001									
Task 5 - 1999									
Task 5 - 2000									
Task 5 - 2001									
SUBTOTAL 1999 HOURS									
SUBTOTAL 2000 HOURS									
SUBTOTAL 2001 HOURS	4	32	8	120	40		40		**244**
TOTAL HOURS	4	32	8	120	40		40		**244**
SUBTOTAL 1999 DIRECT LABOR COSTS									
SUBTOTAL 2000 DIRECT LABOR COSTS									
SUBTOTAL 2001 DIRECT LABOR COSTS	$199.76	$1,324.48	$281.84	$3,615.60	$997.20		$717.20		$7,136.08
TOTAL DIRECT LABOR COSTS	$199.76	$1,324.48	$281.84	$3,615.60	$997.20		$717.20		$7,136.08

ENGINEERING CONTRACT #: D003666
Project Name: NATIONAL HEATSET PRINTING
Work Assignment #: D003666-29

SCHEDULE 2.11(b)

TASK 3, SUBTASK 5 - Construction Cost Estimate (2.3.3)*

* Numbering refers to Work Plan subsection

NSPE	VIII	VII	VI	V	IV	III	II	I	Total Hours
1999 Average Rates	$47.07	$39.02	$33.21	$28.40	$23.50	$19.08	$16.91	$13.68	
2000 Average Rates	$48.48	$40.19	$34.21	$29.25	$24.21	$19.66	$17.41	$14.09	
2001 Average Rates	$49.94	$41.39	$35.23	$30.13	$24.93	$20.25	$17.93	$14.51	
Task 1 - 1999									
Task 1 - 2000									
Task 1 - 2001									
Task 2 - 1999									
Task 2 - 2000									
Task 2 - 2001									
Task 3 - 1999									
Task 3 - 2000									
Task 3 - 2001	2	8		40			40	8	98
Task 4 - 1999									
Task 4 - 2000									
Task 4 - 2001									
Task 5 - 1999									
Task 5 - 2000									
Task 5 - 2001									
SUBTOTAL 1999 HOURS									
SUBTOTAL 2000 HOURS									
SUBTOTAL 2001 HOURS	2	8		40			40	8	98
TOTAL HOURS	2	8		40			40	8	98
SUBTOTAL 1999 DIRECT LABOR COSTS									
SUBTOTAL 2000 DIRECT LABOR COSTS									
SUBTOTAL 2001 DIRECT LABOR COSTS	$99.88	$331.12		$1,205.20			$717.20	$116.08	$2,469.48
TOTAL DIRECT LABOR COSTS	$99.88	$331.12		$1,205.20			$717.20	$116.08	$2,469.48

ENGINEERING CONTRACT #: D003666
Project Name: NATIONAL HEATSET PRINTING
Work Assignment #: D003666-29

SCHEDULE 2.11(b)
TASK 4 SUMMARY

NSPE	VIII	VII	VI	V	IV	III	II	I	Total Hours
1999 Average Rates	$47.07	$39.02	$33.21	$28.40	$23.50	$19.08	$16.91	$13.68	
2000 Average Rates	$48.48	$40.19	$34.21	$29.25	$24.21	$19.66	$17.41	$14.09	
2001 Average Rates	$49.94	$41.39	$35.23	$30.13	$24.93	$20.25	$17.93	$14.51	
Task 1 - 1999									
Task 1 - 2000									
Task 1 - 2001									
Task 2 - 1999									
Task 2 - 2000									
Task 2 - 2001									
Task 3 - 1999									
Task 3 - 2000									
Task 3 - 2001									
Task 4 - 1999									
Task 4 - 2000									
Task 4 - 2001	1	1			40		20		62
Task 5 - 1999									
Task 5 - 2000									
Task 5 - 2001									
SUBTOTAL 1999 HOURS									
SUBTOTAL 2000 HOURS									
SUBTOTAL 2001 HOURS	1	1			40		20		**62**
TOTAL HOURS	1	1			40		20		**62**
SUBTOTAL 1999 DIRECT LABOR COSTS									
SUBTOTAL 2000 DIRECT LABOR COSTS									
SUBTOTAL 2001 DIRECT LABOR COSTS	$49.94	$41.39			$997.20		$358.60		$1,447.13
TOTAL DIRECT LABOR COSTS	$49.94	$41.39			$997.20		$358.60		$1,447.13

ENGINEERING CONTRACT #: D003666
Project Name: NATIONAL HEATSET PRINTING
Work Assignment #: D003666-29

SCHEDULE 2.11(b)
TASK 4, SUBTASK 1 - Citizen Participation (2.4)*

* Numbering refers to Work Plan subsection

NSPE	VIII	VII	VI	V	IV	III	II	I	Total Hours
1999 Average Rates	$47.07	$39.02	$33.21	$28.40	$23.50	$19.08	$16.91	$13.68	
2000 Average Rates	$48.48	$40.19	$34.21	$29.25	$24.21	$19.66	$17.41	$14.09	
2001 Average Rates	$49.94	$41.39	$35.23	$30.13	$24.93	$20.25	$17.93	$14.51	
Task 1 - 1999									
Task 1 - 2000									
Task 1 - 2001									
Task 2 - 1999									
Task 2 - 2000									
Task 2 - 2001									
Task 3 - 1999									
Task 3 - 2000									
Task 3 - 2001									
Task 4 - 1999									
Task 4 - 2000									
Task 4 - 2001	1	1			40		20		62
Task 5 - 1999									
Task 5 - 2000									
Task 5 - 2001									
SUBTOTAL 1999 HOURS									
SUBTOTAL 2000 HOURS									
SUBTOTAL 2001 HOURS	1	1			40		20		**62**
TOTAL HOURS	1	1			40		20		**62**
SUBTOTAL 1999 DIRECT LABOR COSTS									
SUBTOTAL 2000 DIRECT LABOR COSTS									
SUBTOTAL 2001 DIRECT LABOR COSTS	$49.94	$41.39			$997.20		$358.60		$1,447.13
TOTAL DIRECT LABOR COSTS	$49.94	$41.39			$997.20		$358.60		$1,447.13

ENGINEERING CONTRACT #: D003666
Project Name: NATIONAL HEATSET PRINTING
Work Assignment #: D003666-29

SCHEDULE 2.11(b)
TASK 5 SUMMARY

NSPE	VIII	VII	VI	V	IV	III	II	I	Total Hours
1999 Average Rates	$47.07	$39.02	$33.21	$28.40	$23.50	$19.08	$16.91	$13.68	
2000 Average Rates	$48.48	$40.19	$34.21	$29.25	$24.21	$19.66	$17.41	$14.09	
2001 Average Rates	$49.94	$41.39	$35.23	$30.13	$24.93	$20.25	$17.93	$14.51	
2002 Average Rates									
Task 1 - 1999									
Task 1 - 2000									
Task 1 - 2001									
Task 2 - 1999									
Task 2 - 2000									
Task 2 - 2001									
Task 3 - 1999									
Task 3 - 2000									
Task 3 - 2001									
Task 4 - 1999									
Task 4 - 2000									
Task 4 - 2001									
Task 5 - 1999									
Task 5 - 2000									
Task 5 - 2001		18		128	68		16	4	234
SUBTOTAL 1999 HOURS									
SUBTOTAL 2000 HOURS									
SUBTOTAL 2001 HOURS		18		128	68		16	4	234
TOTAL HOURS		18		128	68		16	4	**234**
SUBTOTAL 1999 DIRECT LABOR COSTS									
SUBTOTAL 2000 DIRECT LABOR COSTS									
SUBTOTAL 2001 DIRECT LABOR COSTS		$745.02		$3,856.64	$1,695.24		$286.88	$58.04	$6,641.82
TOTAL DIRECT LABOR COSTS		$745.02		$3,856.64	$1,695.24		$286.88	$58.04	$6,641.82

ENGINEERING CONTRACT #: D003666
Project Name: NATIONAL HEATSET PRINTING
Work Assignment #: D003666-29

SCHEDULE 2.11(b)
Task 5, SUBTASK 1 - Pre-bid Coordination (2.5.1)*

* Numbering refers to Work Plan subsection

NSPE	VIII	VII	VI	V	IV	III	II	I	Total Hours
1999 Average Rates	$47.07	$39.02	$33.21	$28.40	$23.50	$19.08	$16.91	$13.68	
2000 Average Rates	$48.48	$40.19	$34.21	$29.25	$24.21	$19.66	$17.41	$14.09	
2001 Average Rates	$49.94	$41.39	$35.23	$30.13	$24.93	$20.25	$17.93	$14.51	
Task 1 - 1999									
Task 1 - 2000									
Task 1 - 2001									
Task 2 - 1999									
Task 2 - 2000									
Task 2 - 2001									
Task 3 - 1999									
Task 3 - 2000									
Task 3 - 2001									
Task 4 - 1999									
Task 4 - 2000									
Task 4 - 2001									
Task 5 - 1999									
Task 5 - 2000									
Task 5 - 2001		8		48	8		8		72
SUBTOTAL 1999 HOURS									
SUBTOTAL 2000 HOURS									
SUBTOTAL 2001 HOURS		8		48	8		8		72
TOTAL HOURS		8		48	8		8		**72**
SUBTOTAL 1999 DIRECT LABOR COSTS									
SUBTOTAL 2000 DIRECT LABOR COSTS									
SUBTOTAL 2001 DIRECT LABOR COSTS		$331.12		$1,446.24	$199.44		$143.44		$2,120.24
TOTAL DIRECT LABOR COSTS		$331.12		$1,446.24	$199.44		$143.44		$2,120.24

ENGINEERING CONTRACT #: D003666
Project Name: NATIONAL HEATSET PRINTING
Work Assignment #: D003666-29

SCHEDULE 2.11(b)
Task 5, SUBTASK 2 - Addenda (2.5.2)*

* Numbering refers to Work Plan subsection

NSPE	VIII	VII	VI	V	IV	III	II	I	Total Hours
1999 Average Rates	$47.07	$39.02	$33.21	$28.40	$23.50	$19.08	$16.91	$13.68	
2000 Average Rates	$48.48	$40.19	$34.21	$29.25	$24.21	$19.66	$17.41	$14.09	
2001 Average Rates	$49.94	$41.39	$35.23	$30.13	$24.93	$20.25	$17.93	$14.51	
Task 1 - 1999									
Task 1 - 2000									
Task 1 - 2001									
Task 2 - 1999									
Task 2 - 2000									
Task 2 - 2001									
Task 3 - 1999									
Task 3 - 2000									
Task 3 - 2001									
Task 4 - 1999									
Task 4 - 2000									
Task 4 - 2001									
Task 5 - 1999									
Task 5 - 2000									
Task 5 - 2001		2		40			8		50
SUBTOTAL 1999 HOURS									
SUBTOTAL 2000 HOURS									
SUBTOTAL 2001 HOURS		2		40			8		50
TOTAL HOURS		2		40			8		**50**
SUBTOTAL 1999 DIRECT LABOR COSTS									
SUBTOTAL 2000 DIRECT LABOR COSTS									
SUBTOTAL 2001 DIRECT LABOR COSTS		$82.78		$1,205.20			$143.44		$1,431.42
TOTAL DIRECT LABOR COSTS		$82.78		$1,205.20			$143.44		$1,431.42

ENGINEERING CONTRACT #: D003666
Project Name: NATIONAL HEATSET PRINTING
Work Assignment #: D003666-29

SCHEDULE 2.11(b)
TASK 5, SUBTASK 3 - Document Bid Review (2.5.3)*

* Numbering refers to Work Plan subsection

NSPE	VIII	VII	VI	V	IV	III	II	I	Total Hours
1999 Average Rates	$47.07	$39.02	$33.21	$28.40	$23.50	$19.08	$16.91	$13.68	
2000 Average Rates	$48.48	$40.19	$34.21	$29.25	$24.21	$19.66	$17.41	$14.09	
2001 Average Rates	$49.94	$41.39	$35.23	$30.13	$24.93	$20.25	$17.93	$14.51	
Task 1 - 1999									
Task 1 - 2000									
Task 1 - 2001									
Task 2 - 1999									
Task 2 - 2000									
Task 2 - 2001									
Task 3 - 1999									
Task 3 - 2000									
Task 3 - 2001									
Task 4 - 1999									
Task 4 - 2000									
Task 4 - 2001									
Task 5 - 1999									
Task 5 - 2000									
Task 5 - 2001		8		40	60			4	112
SUBTOTAL 1999 HOURS									
SUBTOTAL 2000 HOURS									
SUBTOTAL 2001 HOURS		8		40	60			4	112
TOTAL HOURS		8		40	60			4	**112**
SUBTOTAL 1999 DIRECT LABOR COSTS									
SUBTOTAL 2000 DIRECT LABOR COSTS									
SUBTOTAL 2001 DIRECT LABOR COSTS		$331.12		$1,205.20	$1,495.80			$58.04	$3,090.16
TOTAL DIRECT LABOR COSTS		$331.12		$1,205.20	$1,495.80			$58.04	$3,090.16

ENGINEERING CONTRACT #: D003666
Project Name: NATIONAL HEATSET PRINTING
Work Assignment #: D003666-29

SCHEDULE 2.11(b)
TASK 6 SUMMARY

NSPE	VIII	VII	VI	V	IV	III	II	I	Total Hours
1999 Average Rates	$47.07	$39.02	$33.21	$28.40	$23.50	$19.08	$16.91	$13.68	
2000 Average Rates	$48.48	$40.19	$34.21	$29.25	$24.21	$19.66	$17.41	$14.09	
2001 Average Rates	$49.94	$41.39	$35.23	$30.13	$24.93	$20.25	$17.93	$14.51	
2002 Average Rates	$51.44	$42.64	$36.29	$31.03	$25.68	$20.85	$18.47	$14.95	
Task 1 - 1999	0	0	0	0	0	0	0	0	0
Task 1 - 2000	0	0	0	0	0	0	0	0	0
Task 1 - 2001	0	0	0	0	0	0	0	0	0
Task 1 - 2002	0	0	0	0	0	0	0	0	0
Task 2 - 1999	0	0	0	0	0	0	0	0	0
Task 2 - 2000	0	0	0	0	0	0	0	0	0
Task 2 - 2001	0	0	0	0	0	0	0	0	0
Task 2 - 2002									
Task 3 - 1999	0	0	0	0	0	0	0	0	0
Task 3 - 2000	0	0	0	0	0	0	0	0	0
Task 3 - 2001	0	0	0	0	0	0	0	0	0
Task 3 - 2002									
Task 4 - 1999	0	0	0	0	0	0	0	0	0
Task 4 - 2000	0	0	0	0	0	0	0	0	0
Task 4 - 2001	0	0	0	0	0	0	0	0	0
Task 4 - 2002									
Task 5 - 1999	0	0	0	0	0	0	0	0	0
Task 5 - 2000	0	0	0	0	0	0	0	0	0
Task 5 - 2001	0	0	0	0	0	0	0	0	0
Task 5 - 2002	0	0	0	0	0	0	0	0	0
Task 6 - 1999	0	0	0	0	0	0	0	0	0
Task 6 - 2000	0	0	0	0	0	0	0	0	0
Task 6 - 2001	0	14	0	68	54	10	96	0	242
Task 6 - 2002	0	30	0	106	98	74	134	0	442
Task 7 - 1999	0	0	0	0	0	0	0	0	0
Task 7 - 2000	0	0	0	0	0	0	0	0	0
Task 7 - 2001	0	0	0	0	0	0	0	0	0
Task 7 - 2002	0	0	0	0	0	0	0	0	0
SUBTOTAL 1999 HOURS	0	0	0	0	0	0	0	0	0
SUBTOTAL 2000 HOURS	0	0	0	0	0	0	0	0	0
SUBTOTAL 2001 HOURS	0	14	0	68	54	10	96	0	242
SUBTOTAL 2002 HOURS	0	30	0	106	98	74	134	0	442
TOTAL HOURS	0	44	0	174	152	84	230	0	684
SUBTOTAL 1999 DIRECT LABOI	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00
SUBTOTAL 2000 DIRECT LABOI	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00
SUBTOTAL 2001 DIRECT LABOI	$0.00	$579.46	$0.00	$2,048.64	$1,346.22	$202.50	$1,721.28	$0.00	$5,898.30
SUBTOTAL 2002 DIRECT LABOI	$0.00	$1,279.20	$0.00	$3,289.18	$2,516.64	$1,542.90	$2,474.98	$0.00	$11,102.90
TOTAL DIRECT LABOR COSTS	$0.00	$1,858.66	$0.00	$5,338.02	$3,862.86	$1,745.40	$4,196.26	$0.00	$17,001.20

Project Name: NATIONAL HEATSET PRINTING
Work Assignment #: D003666-29

SCHEDULE 2.11(b)
TASK 6, SUBTASK 1 - Pilot Test Plan

* Numbering refers to Work Plan subsection

NSPE	VIII	VII	VI	V	IV	III	II	I	Total Hours
1999 Average Rates	$47.07	$39.02	$33.21	$28.40	$23.50	$19.08	$16.91	$13.68	
2000 Average Rates	$48.48	$40.19	$34.21	$29.25	$24.21	$19.66	$17.41	$14.09	
2001 Average Rates	$49.94	$41.39	$35.23	$30.13	$24.93	$20.25	$17.93	$14.51	
2002 Average Rates	$51.44	$42.64	$36.29	$31.03	$25.68	$20.85	$18.47	$14.95	
Task 1 - 1999									0
Task 1 - 2000									0
Task 1 - 2001									0
Task 2 - 1999									0
Task 2 - 2000									0
Task 2 - 2001									0
Task 3 - 1999									0
Task 3 - 2000									0
Task 3 - 2001									0
Task 4 - 1999									0
Task 4 - 2000									0
Task 4 - 2001									0
Task 5 - 1999									0
Task 5 - 2000									0
Task 5 - 2001									0
Task 6 - 1999									0
Task 6 - 2000									0
Task 6 - 2001		4		24	4		4		36
Task 7 - 1999									0
Task 7 - 2000									0
Task 7 - 2001									0
SUBTOTAL 1999 HOURS	0	0	0	0	0	0	0	0	0
SUBTOTAL 2000 HOURS	0	0	0	0	0	0	0	0	**0**
SUBTOTAL 2001 HOURS	0	4	0	24	4	0	4	0	**0**
TOTAL HOURS	0	4	0	24	4	0	4	0	**0**
SUBTOTAL 1999 DIRECT LABO	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00
SUBTOTAL 2000 DIRECT LABO	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00
SUBTOTAL 2001 DIRECT LABO	$0.00	$165.56	$0.00	$723.12	$99.72	$0.00	$71.72	$0.00	$1,060.12
TOTAL DIRECT LABOR COSTS	$0.00	$165.56	$0.00	$723.12	$99.72	$0.00	$71.72	$0.00	$1,060.12

Project Name: NATIONAL HEATSET PRINTING
Work Assignment #: D003666-29

SCHEDULE 2.11(b)
TASK 6, SUBTASK 2 - Monitoring Points

* Numbering refers to Work Plan subsection

NSPE	VIII	VII	VI	V	IV	III	II	I	Total Hours
1999 Average Rates	$47.07	$39.02	$33.21	$28.40	$23.50	$19.08	$16.91	$13.68	
2000 Average Rates	$48.48	$40.19	$34.21	$29.25	$24.21	$19.66	$17.41	$14.09	
2001 Average Rates	$49.94	$41.39	$35.23	$30.13	$24.93	$20.25	$17.93	$14.51	
2002 Average Rates	$51.44	$42.64	$36.29	$31.03	$25.68	$20.85	$18.47	$14.95	
Task 1 - 1999									0
Task 1 - 2000									0
Task 1 - 2001									0
Task 2 - 1999									0
Task 2 - 2000									0
Task 2 - 2001									0
Task 3 - 1999									0
Task 3 - 2000									0
Task 3 - 2001									0
Task 4 - 1999									0
Task 4 - 2000									0
Task 4 - 2001									0
Task 5 - 1999									0
Task 5 - 2000									0
Task 5 - 2001									0
Task 6 - 1999									0
Task 6 - 2000									0
Task 6 - 2001		2		4	30		2		38
Task 6 - 2002									
Task 7 - 1999									0
Task 7 - 2000									0
Task 7 - 2001									0
Task 7- 2002									
SUBTOTAL 1999 HOURS	0	0	0	0	0	0	0	0	0
SUBTOTAL 2000 HOURS	0	0	0	0	0	0	0	0	0
SUBTOTAL 2001 HOURS	0	2	0	4	30	0	2	0	0
SUBTOTAL 2002 HOURS	0	0	0	0	0	0	0	0	0
TOTAL HOURS	0	2	0	4	30	0	2	0	0
SUBTOTAL 1999 DIRECT LABOR COST	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00
SUBTOTAL 2000 DIRECT LABOR COST	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00
SUBTOTAL 2001 DIRECT LABOR COST	$0.00	$82.78	$0.00	$120.52	$747.90	$0.00	$35.86	$0.00	$987.06
SUBTOTAL 2002 DIRECT LABOR COST	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00
TOTAL DIRECT LABOR COSTS	$0.00	$82.78	$0.00	$120.52	$747.90	$0.00	$35.86	$0.00	$987.06

Project Name: NATIONAL HEATSET PRINTING
Work Assignment #: D003666-29

SCHEDULE 2.11(b)
TASK 6, SUBTASK 3 - Equipment Installation

* Numbering refers to Work Plan subsection

NSPE	VIII	VII	VI	V	IV	III	II	I	Total Hours
1999 Average Rates	$47.07	$39.02	$33.21	$28.40	$23.50	$19.08	$16.91	$13.68	
2000 Average Rates	$48.48	$40.19	$34.21	$29.25	$24.21	$19.66	$17.41	$14.09	
2001 Average Rates	$49.94	$41.39	$35.23	$30.13	$24.93	$20.25	$17.93	$14.51	
2002 Average Rates	$51.44	$42.64	$36.29	$31.03	$25.68	$20.85	$18.47	$14.95	
Task 1 - 1999									0
Task 1 - 2000									0
Task 1 - 2001									0
Task 2 - 1999									0
Task 2 - 2000									0
Task 2 - 2001									0
Task 3 - 1999									0
Task 3 - 2000									0
Task 3 - 2001									0
Task 4 - 1999									0
Task 4 - 2000									0
Task 4 - 2001									0
Task 5 - 1999									0
Task 5 - 2000									0
Task 5 - 2001									0
Task 6 - 1999									0
Task 6 - 2000									0
Task 6 - 2001		4		24		4	80		112
Task 6 - 2002									0
Task 7 - 1999									0
Task 7 - 2000									0
Task 7 - 2001									0
Task 7 - 2002									0
SUBTOTAL 1999 HOURS	0	0	0	0	0	0	0	0	**0**
SUBTOTAL 2000 HOURS	0	0	0	0	0	0	0	0	**0**
SUBTOTAL 2001 HOURS	0	4	0	24	0	4	80	0	**112**
SUBTOTAL 2002 HOURS	0	0	0	0	0	0	0	0	**0**
TOTAL HOURS	0	4	0	24	0	4	80	0	**112**
SUBTOTAL 1999 DIRECT LABOR CO	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00
SUBTOTAL 2000 DIRECT LABOR CO	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00
SUBTOTAL 2001 DIRECT LABOR CO	$0.00	$165.56	$0.00	$723.12	$0.00	$81.00	$1,434.40	$0.00	$2,404.08
SUBTOTAL 2002 DIRECT LABOR CO	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00
TOTAL DIRECT LABOR COSTS	$0.00	$165.56	$0.00	$723.12	$0.00	$81.00	$1,434.40	$0.00	$2,404.08

Project Name: NATIONAL HEATSET PRINTING
Work Assignment #: D003666-29

SCHEDULE 2.11(b)
TASK 6, SUBTASK 4 - Pilot Test & Report

* Numbering refers to Work Plan subsection

NSPE	VIII	VII	VI	V	IV	III	II	I	Total Hours
1999 Average Rates	$47.07	$39.02	$33.21	$28.40	$23.50	$19.08	$16.91	$13.68	
2000 Average Rates	$48.48	$40.19	$34.21	$29.25	$24.21	$19.66	$17.41	$14.09	
2001 Average Rates	$49.94	$41.39	$35.23	$30.13	$24.93	$20.25	$17.93	$14.51	
2002 Average Rates	$51.44	$42.64	$36.29	$31.03	$25.68	$20.85	$18.47	$14.95	
Task 1 - 1999									0
Task 1 - 2000									0
Task 1 - 2001									0
Task 2 - 1999									0
Task 2 - 2000									0
Task 2 - 2001									0
Task 3 - 1999									0
Task 3 - 2000									0
Task 3 - 2001									0
Task 4 - 1999									0
Task 4 - 2000									0
Task 4 - 2001									0
Task 5 - 1999									0
Task 5 - 2000									0
Task 5 - 2001									0
Task 6 - 1999									0
Task 6 - 2000									0
Task 6 - 2001		4		16	20	6	10		56
Task 6 - 2002									
Task 7 - 1999									0
Task 7 - 2000									0
Task 7 - 2001									0
Task 7 - 2002									
SUBTOTAL 1999 HOURS	0	0	0	0	0	0	0	0	0
SUBTOTAL 2000 HOURS	0	0	0	0	0	0	0	0	0
SUBTOTAL 2001 HOURS	0	4	0	16	20	6	10	0	56
SUBTOTAL 2002 HOURS	0	0	0	0	0	0	0	0	0
TOTAL HOURS	0	4	0	16	20	6	10	0	56
SUBTOTAL 1999 DIRECT LABOR COSTS	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00
SUBTOTAL 2000 DIRECT LABOR COSTS	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00
SUBTOTAL 2001 DIRECT LABOR COSTS	$0.00	$165.56	$0.00	$482.08	$498.60	$121.50	$179.30	$0.00	$1,447.04
SUBTOTAL 2002 DIRECT LABOR COSTS	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00
TOTAL DIRECT LABOR COSTS	$0.00	$165.56	$0.00	$482.08	$498.60	$121.50	$179.30	$0.00	$1,447.04

Project Name: NATIONAL HEATSET PRINTING
Work Assignment #: D003666-29

SCHEDULE 2.11(b)
TASK 6, SUBTASK 5 - O & M Plan

* Numbering refers to Work Plan subsection

NSPE	VIII	VII	VI	V	IV	III	II	I	Total Hours
1999 Average Rates	$47.07	$39.02	$33.21	$28.40	$23.50	$19.08	$16.91	$13.68	
2000 Average Rates	$48.48	$40.19	$34.21	$29.25	$24.21	$19.66	$17.41	$14.09	
2001 Average Rates	$49.94	$41.39	$35.23	$30.13	$24.93	$20.25	$17.93	$14.51	
2002 Average Rates	$51.44	$42.64	$36.29	$31.03	$25.68	$20.85	$18.47	$14.95	
Task 1 - 1999									0
Task 1 - 2000									0
Task 1 - 2001									0
Task 2 - 1999									0
Task 2 - 2000									0
Task 2 - 2001									0
Task 3 - 1999									0
Task 3 - 2000									0
Task 3 - 2001									0
Task 4 - 1999									0
Task 4 - 2000									0
Task 4 - 2001									0
Task 5 - 1999									0
Task 5 - 2000									0
Task 5 - 2001									0
Task 5 - 2002									
Task 6 - 1999									0
Task 6 - 2000									0
Task 6 - 2001									0
Task 6 - 2202		30		106	98	74	134		442
Task 7 - 1999									0
Task 7 - 2000									0
Task 7 - 2001									0
Task 7 -2002									0
SUBTOTAL 1999 HOURS	0	0	0	0	0	0	0	0	**0**
SUBTOTAL 2000 HOURS	0	0	0	0	0	0	0	0	**0**
SUBTOTAL 2001 HOURS	0	0	0	0	0	0	0	0	**0**
SUBTOTAL 2002 HOURS	0	30	0	106	98	74	134	0	**442**
TOTAL HOURS	0	30	0	106	98	74	134	0	**442**
SUBTOTAL 1999 DIRECT LABOR COSTS	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00
SUBTOTAL 2000 DIRECT LABOR COSTS	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00
SUBTOTAL 2001 DIRECT LABOR COSTS	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00
SUBTOTAL 2202 DIRECT LABOR	$0.00	$1,279.20	$0.00	$3,289.18	$2,516.64	$1,542.90	$2,474.98	$0.00	$11,102.90
TOTAL DIRECT LABOR COSTS	$0.00	$1,279.20	$0.00	$3,289.18	$2,516.64	$1,542.90	$2,474.98	$0.00	$11,102.90

ENGINEERING CONTRACT #: D003666
Project Name: NATIONAL HEATSET PRINTING
Work Assignment #: D003666-29

SCHEDULE 2.11(b)
TASK 7 SUMMARY

NSPE	VIII	VII	VI	V	IV	III	II	I	Total Hours
1999 Average Rates	$47.07	$39.02	$33.21	$28.40	$23.50	$19.08	$16.91	$13.68	
2000 Average Rates	$48.48	$40.19	$34.21	$29.25	$24.21	$19.66	$17.41	$14.09	
2001 Average Rates	$49.94	$41.39	$35.23	$30.13	$24.93	$20.25	$17.93	$14.51	
2002 Average Rates	$51.44	$42.64	$36.29	$31.03	$25.68	$20.85	$18.47	$14.95	
Task 1 - 1999	0	0	0	0	0	0	0	0	0
Task 1 - 2000	0	0	0	0	0	0	0	0	0
Task 1 - 2001	0	0	0	0	0	0	0	0	0
Task 1 - 2002	0	0	0	0	0	0	0	0	0
Task 2 - 1999	0	0	0	0	0	0	0	0	0
Task 2 - 2000	0	0	0	0	0	0	0	0	0
Task 2 - 2001	0	0	0	0	0	0	0	0	0
Task 2 - 2002	0	0	0	0	0	0	0	0	0
Task 3 - 1999	0	0	0	0	0	0	0	0	0
Task 3 - 2000	0	0	0	0	0	0	0	0	0
Task 3 - 2001	0	0	0	0	0	0	0	0	0
Task 3 - 2002	0	0	0	0	0	0	0	0	0
Task 4 - 1999	0	0	0	0	0	0	0	0	0
Task 4 - 2000	0	0	0	0	0	0	0	0	0
Task 4 - 2001	0	0	0	0	0	0	0	0	0
Task 4 - 2002	0	0	0	0	0	0	0	0	0
Task 5 - 1999	0	0	0	0	0	0	0	0	0
Task 5 - 2000	0	0	0	0	0	0	0	0	0
Task 5 - 2001	0	0	0	0	0	0	0	0	0
Task 5 - 2002	0	0	0	0	0	0	0	0	0
Task 6 - 1999	0	0	0	0	0	0	0	0	0
Task 6 - 2000	0	0	0	0	0	0	0	0	0
Task 6 - 2001	0	0	0	0	0	0	0	0	0
Task 6 - 2002	0	0	0	0	0	0	0	0	0
Task 7 - 1999	0	0	0	0	0	0	0	0	0
Task 7 - 2000	0	0	0	0	0	0	0	0	0
Task 7 - 2001	0	0	0	0	0	0	0	0	0
Task 7 - 2002	0	12	0	32	32	24	10	0	110
SUBTOTAL 1999 HOURS	0	0	0	0	0	0	0	0	0
SUBTOTAL 2000 HOURS	0	0	0	0	0	0	0	0	0
SUBTOTAL 2001 HOURS	0	0	0	0	0	0	0	0	0
SUBTOTAL 2002 HOURS	0	12	0	32	32	24	10	0	110
TOTAL HOURS	0	12	0	32	32	24	10	0	110
SUBTOTAL 1999 DIRECT LABOR COS	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00
SUBTOTAL 2000 DIRECT LABOR COS	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00
SUBTOTAL 2001 DIRECT LABOR COS	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00
SUBTOTAL 2002 DIRECT LABOR COS	$0.00	$511.68	$0.00	$992.96	$821.76	$500.40	$184.70	$0.00	$3,011.50
TOTAL DIRECT LABOR COSTS	$0.00	$511.68	$0.00	$992.96	$821.76	$500.40	$184.70	$0.00	$3,011.50

Project Name: NATIONAL HEATSET PRINTING
Work Assignment #: D003666-29

SCHEDULE 2.11(b)
TASK 7, SUBTASK 1 - Warehouse SVE Contingency

* Numbering refers to Work Plan subsection

NSPE	VIII	VII	VI	V	IV	III	II	I	Total Hours
1999 Average Rates	$47.07	$39.02	$33.21	$28.40	$23.50	$19.08	$16.91	$13.68	
2000 Average Rates	$48.48	$40.19	$34.21	$29.25	$24.21	$19.66	$17.41	$14.09	
2001 Average Rates	$49.94	$41.39	$35.23	$30.13	$24.93	$20.25	$17.93	$14.51	
2002 Average Rates	$51.44	$42.64	$36.29	$31.03	$25.68	$20.85	$18.47	$14.95	
Task 1 - 1999									0
Task 1 - 2000									0
Task 1 - 2001									0
Task 2 - 1999									0
Task 2 - 2000									0
Task 2 - 2001									0
Task 3 - 1999									0
Task 3 - 2000									0
Task 3 - 2001									0
Task 4 - 1999									0
Task 4 - 2000									0
Task 4 - 2001									0
Task 5 - 1999									0
Task 5 - 2000									0
Task 5 - 2001									0
Task 6 - 1999									0
Task 6 - 2000									0
Task 6 - 2001									0
Task 6 - 2002									
Task 7 - 1999									0
Task 7 - 2000									0
Task 7 - 2001									0
Task 7 - 2002		12		32	32	24	10		110
SUBTOTAL 1999 HOURS	0	0	0	0	0	0	0	0	0
SUBTOTAL 2000 HOURS	0	0	0	0	0	0	0	0	**0**
SUBTOTAL 2001 HOURS	0	0	0	0	0	0	0	0	**0**
SUBTOTAL 2002 HOURS	0	12	0	32	32	24	10	0	**110**
TOTAL HOURS	0	12	0	32	32	24	10	0	**110**
SUBTOTAL 1999 DIRECT LABOR COST	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00
SUBTOTAL 2000 DIRECT LABOR COST	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00
SUBTOTAL 2001 DIRECT LABOR COST	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00
SUBTOTAL 2002 DIRECT LABOR COST	$0.00	$511.68	$0.00	$992.96	$821.76	$500.40	$184.70	$0.00	$3,011.50
TOTAL DIRECT LABOR COSTS	$0.00	$511.68	$0.00	$992.96	$821.76	$500.40	$184.70	$0.00	$3,011.50

SCHEDULE 2.11(c)
DIRECT NON-SALARY COSTS
TRAVEL and OFFICE

Item	Reimbursement Rate		Est. No. of Units Task 1	Est. No. of Units Task 2	Est. No. of Units Task 3	Est. No. Units Task 4	Est. No. of Units Task 5	Est. No of Units Task 6	Est. No of Units Task 7	Total Units	Total Estimated Cost
1. TRAVEL											
1a. Car Rental	$ 50.00	day	0	0	0	0	0	0	0	0	$ -
1b. Air Fare	$500.00	ea	0	0	0	0	0	0	0	0	$ -
1c. Mileage	$ 0.32	mile	600	1600	0	150	150	2150	200	4850	$ 1,552.00
1d. Per Diem, Meals, Babylon (full)	$ 38.00	day	0	34	0	2	2	14	1	53	$ 2,014.00
1e. Per Diem, Meals, Lodging, Babylon (singles)	$149.00	day	0	12	0	0	0	14	1	27	$ 4,023.00
1f. Tolls	$ 11.00	rnd trip	4	15	0	1	1	0	0	21	$ 231.00
1g. Airport Parking	$ 24.00	day	0	0	0	0	0	0	0	0	$ -
2. OFFICE EXPENSES											
2a. Photocopies	$ 0.05	page	1100	5700	0	400	200	0	0	7400	$ 370.00
2b. CADD computer Usage	$ 7.50	hr	24	158	100	24	0	0	0	306	$ 2,295.00
2c. PC Usage	$ 2.00	hr	60	330	200	40	40	0	0	670	$ 1,340.00
2d. Fedex (cooler)	$ 75.00	ea	0	7	0	0	0	0	0	7	$ 525.00
2e. Fedex (Package)	$ 25.00	ea	4	10	4	1	2	1	0	22	$ 550.00
2f. Plotter Paper	$ 25.00	ea	0	1	1	0	0	0	0	2	$ 50.00
2g. Plotter Cartridges	$ 25.00	ea	0	1	1	0	0	0	0	2	$ 50.00
___ Photos	$ 15.00	ea	0	0	0	0	0	6	1	9	$ 135.00
TASK TOTALS			$ 691.00	$ 6,712.00	$ 1,300.00	$ 440.00	$ 275.00	$ 3,451.00	$ 266.00	$ 13,369.00	$ 13,135.00

ENGINEERING CONTRACT #: D003666
Project Name: National Headset Printing
Work Assignment #: D003666-29

SCHEDULE 2.11(d)
DIRECT NON-SALARY COSTS
SUMMARY OF EQUIPMENT & SUPPLIES

TASK	2.11(d)1 Purchased Equipment	2.11(d)2 Consultant Equipment	2.11(d)3 Rented Equipment	2.11(d)4 Site Ded. Equipment	2.11(d)5 Consum. Supplies	TOTAL
TASK 1	$ -	$ -	$ -	$ -	$ -	$ -
TASK 2	$ -	$ 1,418.00	$ 7,404.75	$ -	$ 8,926.13	$ 17,748.88
TASK 3	$ -	$ -	$ -	$ -	$ -	$ -
TASK 4	$ -	$ -	$ -	$ -	$ -	$ -
TASK 5	$ -	$ -	$ -	$ -	$ -	$ -
TASK 6	$ -	$ -	$ 1,017.00	$ -	$ 9,720.00	$ 10,737.00
TASK 7	$ -	$ 492.00	$ 300.00	$ -	$ 1,250.00	$ 2,042.00
TOTALS	$ -	$ 1,910.00	$ 8,721.75	$ -	$ 19,896.13	$ 30,527.88

ENGINEERING CONTRACT #: D003666
Project Name: National Heatset Printing
Work Assignment #: D003666-29

SCHEDULE 2.11(d)1
EQUIPMENT PURCHASED UNDER CONTRACT

ITEM	PURCHASE PRICE	O&M RATE ($/UNIT OF TIME)	ESTIMATED USAGE (UNIT OF TIME)	ESTIMATED USAGE COST ($)
TASK 1				$ -
TASK 2				$ -
TASK 3				$ -
TASK 4				$ -
TASK 5				$ -
TASK 6				$ -
TASK 7				$ -
TOTAL				N/A

ENGINEERING CONTRACT #: D003666
Project Name: National Heatset Printing
Work Assignment #: D003666-29

SCHEDULE 2.11(d)2
MAXIMUM REIMBURSEMENT RATE FOR
CONSULTANT/SUBCONSULTANT OWNED EQUIPMENT

ITEM	PURCHASE PRICE ($) x 85%	USAGE RATE ($/UNIT OF TIME)	CAPITAL RECOVERY RATE ($/UNIT OF TIME)	O&M RATE ($/UNIT OF TIME)	ESTIMATED USAGE (UNIT OF TIME)	ESTIMATED USAGE COST ($)
TASK 1						$ -
TASK 2						
IT Van / Truck		$ 41.00 day			28	$ 1,148.00
LVE		$0.75 hr			360	$ 270.00
TASK 3						$ -
TASK 4						$ -
TASK 5						$ -
TASK 6						$ -
TASK 7						$ -
IT Van / Truck		$ 41.00 day			12	$ 492.00
TOTAL						$ 1,910.00

SCHEDULE 2.11(d)3
MAXIMUM REIMBURSEMENT RATE FOR
VENDOR RENTED EQUIPMENT

ITEM	MAXIMUM REIMBURSEMENT RATE		QUANTITY	COST
Task 1				
Task 2				
D.O. Meter	$ 10.00	day*	21	$ 210.00
Multiple Meter (Horiba U -10)	$ 18.75	day*	21	$ 393.75
Rental Equipment Shipping	$ 20.00	ea*	5	$ 100.00
Hermit Data Logger	$ 243.00	week*	2	$ 486.00
Transducers (6)	$ 68.00	ea/week*	12	$ 816.00
Water Carbon Units/Filter (2)	$ 2,795.00	month*	1	$ 2,795.00
Generator, 20 KW	$ 330.00	week	2	$ 660.00
Oxidant Pumping Equipment	$ -	LS*	1	$ -
Pump Rental	$ -	unit*	1	$ -
PID (PhotoVac 2020)	$ 31.00	day*	24	$ 744.00
Redi-Flow 2" Sub Pump	$ -	day*	16	$ -
Generator, 20 KW	$ 330.00	week*	2	$ 660.00
Generator, 5KW	$ 45.00	day*	12	$ 540.00
Task 3				
Task 4				
Task 5				
Task 6				
Water Level Meter	$ 10.00	day	2	$ 20.00
Photo-ionization Detector (PID)	$ 41.00	day	17	$ 697.00
Concrete Saw	$ 300.00	day	1	$ 300.00
Task 7				
Concrete Saw	$ 300.00	day	1	$ 300.00
TOTAL				**$ 8,721.75**

* IT is convinced that the maximum reimbursement rates presented for these items are reasonable.

ENGINEERING CONTRACT #: D003666
Project Name: National Heatset Printing
Work Assignment #: D003666-29

SCHEDULE 2.11(d)4
MAXIMUM REIMBURSEMENT RATE FOR
SITE DEDICATED EQUIPMENT

ITEM	ESTIMATED QUANTITY	COST PER UNIT	COST
Task 1			$ -
Task 2			$ -
Task 3			$ -
Task 4			$ -
Task 5			$ -
Task 6			
Task 7			
Total			N/A

SCHEDULE 2.11(d)5
CONSUMABLE SUPPLIES

ITEM		MAXIMUM REIMBURSEMENT RATE		QUANTITY	COST
Task 1					$ -
Task 2					$ -
	Poly Tubing	$ 100.00	each*	3	$ 300.00
	Disposable Bailers	$ 10.00	each*	34	$ 340.00
	Distilled Water	$ 2.00	each*	18	$ 36.00
	PPE - Level D	$ 12.00	man-day*	30	$ 360.00
	Shipping Oxidant	$ 626.86	ls	1	$ 626.86
	Oxidant Chemicals	$ 1.22	pound	5,954	$ 7,263.27
Task 3					$ -
Task 4					$ -
Task 5					$ -
Task 6					
	Vapor Carbon	$ 595.00	Each	6	$ 3,570.00
	SVE Blower System	$ 4,900.00	Each	1	$ 4,900.00
	Building Materials	$ 1,000.00	LS	1	$ 1,000.00
	Concrete	$ 250.00	LS	1	$ 250.00
Task 7					
	Building Materials	$ 1,000.00	LS	1	$ 1,000.00
	Concrete	$ 250.00	LS	1	$ 250.00
TOTAL					**$ 19,896.13**

* IT is convinced that the maximum reimbursement rates presented for these items are reasonable.

ENGINEERING CONTRACT #: D003666
Project Name: NATIONAL HEATSET PRINTING
Work Assignment #: D003666-29

SCHEDULE 2.11(e)
YEC, Inc.
COST-PLUS-FIXED-FEE SUBCONTRACTS

NAME OF SUBCONTRACTOR	SERVICES TO BE PERFORMED	SUBCONTRACT PRICE
YEC, INC.	Surveying & CAD Mapping	$16,744.82

A. Direct Salary Costs 1999

Professional Responsibility Level	Labor Classification	2000 Average Reimbursement Rate ($/Hr.)	2000 Maximum Reimbursement Rate ($/Hr.)	2000 Estimated No. of Hours	Total Estimated Direct Salary Costs
NSPE VII	Principal	$47.69	$51.51	8	$381.52
NSPE VI	Senior Geologist/Scientist/ Engineer/ Licensed Surveyor	$31.53	$34.68	102	$3,216.06
NSPE V	Staff Geologist/ Scientist/Engineer	$27.40	$30.14		
NSPE IV	Staff Geologist/ Scientist/Engineer/CAD Operator	$23.78	$25.40	24	$570.72
NSPE III	Senior Technician/Staff Engineer/Scientist/Geologist	$17.60	$19.71	78	$1,372.80
NSPE I	Technician/Draftsperson	$15.94	$17.85		
					$5,541.10

B. Indirect Costs

Indirect costs shall be paid based on a percentage of direct salary costs incurred which shall not exceed a maximum of 117.0% or the actual rate calculated in accordance with 48 CFR Federal Acquisition Regulation, whichever is lower.

Budget for indirect costs is: **$6,483.09**

C. Maximum Reimbursement Rates for Direct Non-Salary Costs

Item	Units	Maximum Reimbursement Rate (Specify Unit)	Estimated No. of Units	Total Estimated Costs
Survey Equipment Rental	/day	65	5	325
CAD Computer	/hour	15	24	360
Per diem	/man/day	107	14	1498
Mileage	/mile	0.315	1600	504
Tolls	per trip	15	2	30
Field Supplies (stakes, etc.)	lump sum	100	1	100
Telephone/Postage/Reproduction	lump sum	100	1	100
TOTAL				$2,917.00

D. Fixed Fee (15.0%)

The fixed fee is **$1,803.63**

SCHEDULE 2.11(f)
UNIT PRICE SUBCONTRACTS - SUMMARY

TASK		NAME OF SUBCONTRACTOR	SERVICES TO BE PERFORMED	PRICE W/ FEE	PRICE W/O FEE
Task 1				$ -	$ -
Task 2					
	211F1	EDV	Data Validation, DUSR	$ 2,266.00	$ 2,266.00
	211F2	SJB Services, Inc.	Drilling Services	$ 47,309.85	$ 45,057.00
	211F3	Mitkem Corporation	Laboratory Analytical	$ 29,599.50	$ 28,190.00
	211F6	Eco-Tron	Disposal of Investigation Derived Waste	$ 6,488.00	$ 6,488.00
Task 3					
	211F7	Triangle	Printing/Reproduction	$ 8,610.00	$ 8,610.00
Task 4				$ -	$ -
Task 5				$ -	$ -
Task 6				$ -	$ -
	211F8	To Be Determined	Electrical Installation	$ 3,000.00	$ 3,000.00
	211F9	Con-Test	Laboratory Analytical	$ 1,104.00	$ 1,104.00
	211F10	Zebra Environmental	Geoprobe Services	$2,236	$ 2,236.00
Task 7				$ -	$ -

ENGINEERING CONTRACT #: D003666
Project Name: NATIONAL HEATSET PRINTING
Work Assignment #: D003666-29

SCHEDULE 2.11(f1)
UNIT PRICE SUBCONTRACTS

NAME OF SUBCONTRACTOR	SERVICES TO BE PERFORMED	SUBCONTRACT PRICE
EDV	Data Validation, DUSR	$ 2,266.00
	Subcontractor Management Fee (5%)	$ -
	TOTAL	**$ 2,266.00**

Item	Maximum Reimbursement Rate	Unit	Estimated No. of Units	Total Estimated Costs
Soil Boring				
VOCs 8240	$10	ea.	21	$210.00
F- Blank 95-1	$10	ea.	5	$50.00
T-Blank 95-1	$10	ea.	5	$50.00
Groundwater Sampling				
VOCs 624	$10	ea.	25	$250.00
Metals 6010	$12	ea.	25	$300.00
Anions 9056	$10	ea.	25	$250.00
F-Blank 95-1	$10	ea.	5	$50.00
T-Blank 95-1	$10	ea.	5	$50.00
Treatabilty Testing				
VOC water samples, method 8260 analy	$10	ea.	44	$440.00
VOC soil samples,method 8240 analytical	$10	ea.	45	$450.00
Total organic carbon	$5	ea.	2	$10.00
metals by EPA method 6010B	$12	ea.	11	$132.00
Hex.chrome by method 7196	$12	ea.	2	$24.00

SCHEDULE 2.11(f2)
UNIT PRICE SUBCONTRACTS

NAME OF SUBCONTRACTOR	SERVICES TO BE PERFORMED	SUBCONTRACT PRICE
SJB Services, Inc.	Drilling Services	$ 45,057.00
	Subcontractor Management Fee (5%)	$ 2,252.85
	TOTAL	**$ 47,309.85**

Item	Maximum Reimbursement Rate	Unit	Estimated No. of Units	Total Estimated Costs
2 Soil Borings Outside Building (0-80 feet)				
4.25-inch HSA (0-50 feet)	$10.00	ft.	100	$ 1,000.00
4.25-inch HSA (50-80 feet)	$13.00	ft.	60	$ 780.00
Split Spoon Sampling	$10.00	ea.	48	$ 480.00
Grout Open Borehole (0-50 feet)	$6.00	ft.	100	$ 600.00
Grout Open Borehole (50-80 feet)	$6.00	ft.	60	$ 360.00
5 Soil Borings Inside Building (0-80 feet)				
4.25-inch HSA (0-50 feet)	$10.00	ft.		$ -
4.25-inch HSA (50-80 feet)	$13.00	ft.		$ -
Split Spoon Sampling	$10.00	ea.	120	$ 1,200.00
Grout Open Borehole (0-50 feet)	$6.00	ft.	100	$ 600.00
Grout Open Borehole (50-80 feet)	$6.00	ft.	60	$ 360.00
Access through Concrete Slab	$225.00	ea.	5	$ 1,125.00
Drive Casing (0-50ft)	$24.00	ft.	250	$ 6,000.00
Drive Casing (50-100ft)	$40.00	ft.	150	$ 6,000.00
Overtime Hours	$125.00	ea.	64	$ 8,000.00
3 Retrofit Wells In Source Area (0-80 feet)				
Well Screen (2" PVC 20 slot sch 40)	$3.00	ft.	120	$ 360.00
Rise Pipe (2' PVC sch 40)	$2.00	ft.	120	$ 240.00
2" Well Screen Backfill (38-80 feet)	$10.00	ft.	126	$ 1,260.00
2" Bentonite Pellet Seal (36-38 feet)	$13.00	ft.	6	$ 78.00
2" Riser Backfill (0-36 feet)	$7.00	ft.	108	$ 756.00
8" Flush Mount	$150.00	ea.	3	$ 450.00
2" well Development	$150.00	hr.	3	$ 450.00
SUBTOTAL				$ 30,099.00
2 Pump Test Wells				
6.25-inch HAS (0-50 feet)	$16.00	ft.	100	$ 1,600.00
6.25-inch HAS (50-80 feet)	$19.00	ft.	60	$ 1,140.00
Split Spoon Sampling (50-80 feet)	$10.00	ea.	30	$ 300.00
Well Screen 4" PVC 20 slot sch40	$4.00	ft.	140	$ 560.00
Riser Pipe 4" PVC sch 40	$3.50	ft.	20	$ 70.00
4" Well Screen Backfill	$10.00	ft.	144	$ 1,440.00
4" Bentonitr Pellet Seal	$16.00	ft.	4	$ 64.00
4" Riser Backfill	$9.00	ft.	16	$ 144.00
8" Flush Mount	$175.00	ea.	2	$ 350.00
Well Development	$150.00	hr.	2	$ 300.00
SUBTOTAL				$ 5,968.00
Additional Items				
Mobilization/demobilization	$3,000.00	l.s.	1	$ 3,000.00
PPE/day Driller & Helper	N/A	man/day	14	$ -
Decon Pad	$500.00	ea.	1	$ 500.00
Decon Between Borings	$130.00	hr.	11	$ 1,430.00
Steam Cleaner	$50.00	dy.	7	$ 350.00
Generator	$50.00	dy.	7	$ 350.00
55-gal Drums	$35.00	ea.	40	$ 1,400.00
Filling & Staging Drums	$140.00	hr.	14	$ 1,960.00
SUBTOTAL				$ 8,990.00
TOTAL				$ 45,057.00

SCHEDULE 2.2.1(f3)
UNIT PRICE SUBCONTRACTS

NAME OF SUBCONTRACTOR	SERVICES TO BE PERFORMED	SUBCONTRACT PRICE
Mitkem Corporation	Laboratory Analytical	$28,190
	Subcontractor Management Fee (5%)	$1,410
	TOTAL	**$29,600**

Item	Maximum Reimbursement Rate	Unit	Estimated No. of Units	Total Estimated Costs
1) Soil Boring				
VOCs 8240	$120	ea.	21	$2,520
F- Blank 95-1	$110	ea.	5	$550
T-Blank 95-1	$110	ea.	5	$550
Groundwater Sampling				
VOCs 624	$120	ea.	25	$3,000
Metals 6010	$60	ea.	25	$1,500
Anions 9056	$100	ea.	25	$2,500
F-Blank 95-1	$110	ea.	5	$550
T-Blank 95-1	$110	ea.	5	$550
Treatabilty Testing				
VOC water samples, method 8260 ana	$120	ea.	44	$5,280
VOC soil samples,method 8240 analyt	$120	ea.	45	$5,400
materials, supplies, shipping,waste dis	$1,850		1	$1,850
Total organic carbon	$60	ea.	2	$120
metals by EPA method 6010B	$90	ea.	11	$990
Hex.chrome by method 7196	$50	ea.	2	$100
TCLP/Waste Characterization	$910	ea.	3	$2,730

SCHEDULE 2.2.2.1(f6)
UNIT PRICE SUBCONTRACTS

NAME OF SUBCONTRACTOR	SERVICES TO BE PERFORMED	SUBCONTRACT PRICE
Eco-Tron	Disposal of Investigation Derived Waste	$6,488.00
	Subcontractor Management Fee (5%)	$ -
	TOTAL*	**$ 6,488.00**

Item	Maximum Reimbursement Rate	Unit	Estimated No. of Units	Total Estimated Costs
Hazardous Soil Drums	$97.20	ea.	30	$2,916.00
Hazardous Water Drums	$97.20	ea.	10	$972.00
Non-hazardous Soil Drums	$65.00	ea.	10	$650.00
Transportation	$1,950.00	load	1	$1,950.00

SCHEDULE 2.11(f7)
UNIT PRICE SUBCONTRACTS

NAME OF SUBCONTRACTOR	SERVICES TO BE PERFORMED	CONTRACT PRICE
Triangle	Printing/Reproduction	$ 8,610.00
	TOTAL	**$ 8,610.00**

Item	Type	Unit	Estimated No. of Units	Total Estimated Costs
Project Number 1(Preliminary Design)				$2,316
	81/2 x 11" double sided	250 pages	92	
	24" x 36" drawings	13 drawings	92	
Project Number 2 (Pre-final Design)				$2,949
	81/2 x 11" double sided	250 pages	92	
	24" x 36" drawings	21 drawings	92	
Project Number 3 (Final Design)				$3,345
	81/2 x 11" double sided	250 pages	92	
	24" x 36" drawings	26 drawings	92	

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SCHEDULE 2.11(f8)
UNIT PRICE SUBCONTRACTS

NAME OF SUBCONTRACTOR	SERVICES TO BE PERFORMED	CONTRACT PRICE
To Be Determined	Electrical Installation	$ 3,000.00
	Subcontractor Management Fee (5%)	$0
	TOTAL	**$ 3,000.00**

Item	Type	Unit	Estimated No. of Units	Total Estimated Costs
Estimated Electrical Installation				$3,000

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SCHEDULE 2.11(f9)
UNIT PRICE SUBCONTRACTS

NAME OF SUBCONTRACTOR	SERVICES TO BE PERFORMED	CONTRACT PRICE
Con-Test	Laboratory Analytical	$1,104
	Subcontractor Management Fee (5%)	$0
	TOTAL	**$ 1,104.00**

Item	Type	Unit	Estimated No. of Units	Total Estimated Costs
TO-14 Analysis		276	4	$1,104

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SCHEDULE 2.11(f10)
UNIT PRICE SUBCONTRACTS

NAME OF SUBCONTR	SERVICES TO BE PERFORMED	CONTRACT PRICE
Zebra Environmental	Geoprobe Services	$2,236
	Subcontractor Management Fee (5%)	$0
	TOTAL	**$ 2,236.00**

Item	Type	Unit	Estimated No. of Units	Total Estimated Costs
TO-14 Analysis		2236	1	$2,236

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SCHEDULE 2.11(g) SUMMARY
MONTHLY COST CONTROL REPORT
SUMMARY OF FISCAL INFORMATION

No.	Category	A Costs Claimed This Period	B Invoiced 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 Estimated Approved Budget	H Estimated Under/(Over) (G-F)
1	Direct Salary Costs	$ -	$ -	$ -	$ -	$ 111,200.10	$ 111,200.10	$ 111,200.10	$ -
1a	Direct Salary Costs (OT)	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -
2	Indirect Costs (163%)	$ -	$ -	$ -	$ -	$ 181,256.16	$ 181,256.16	$ 181,256.16	$ -
3	Subtotal Direct Salary Costs and Indirect Costs	$ -	$ -	$ -	$ -	$ 292,456.26	$ 292,456.26	$ 292,456.26	$ -
4	Travel/Office	$ -	$ -	$ -	$ -	$ 13,135.00	$ 13,135.00	$ 13,135.00	$ -
5	Other Non-Salary Costs	$ -	$ -	$ -	$ -	$ 30,527.88	$ 30,527.88	$ 30,527.88	$ -
6	Subtotal Direct Non-Salary Costs	$ -	$ -	$ -	$ -	$ 43,662.88	$ 43,662.88	$ 43,662.88	$ -
7	Subcontractors	$ -	$ -	$ -	$ -	$ 113,695.82	$ 113,695.82	$ 113,695.82	$ -
8	Total Work Assignment Cost	$ -	$ -	$ -	$ -	$ 449,814.96	$ 449,814.96	$ 449,814.96	$ -
9	Fixed Fee	$ -	$ -	$ -	$ -	$ 18,717.20	$ 18,717.20	$ 18,717.20	$ -
10	Sub Management Fee	$ -	$ -	$ -	$ -	$ 3,662.35	$ 3,662.35	$ 3,662.35	$ -
11	Total Work Assignment Price	$ -	$ -	$ -	$ -	$ 472,194.51	$ 472,194.51	$ 472,194.51	$ -
12	Retainage (5%)	$ -	$ -	$ -	$ -	$ 23,609.73	$ 23,609.73	$ 23,609.73	$ -
13	Net Invoice Amount	$ -	$ -	$ -	$ -	$ 448,584.78	$ 448,584.78	$ 448,584.78	$ -

Project Manager (Engineer) _____ Date: _____

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Date Prepared _____
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% Complete _____

SCHEDULE 2.11(g) Task 1
MONTHLY COST CONTROL REPORT
SUMMARY OF FISCAL INFORMATION

No.	Category	A Costs Claimed This Period	B Invoiced 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 Estimated Approved Budget	H Estimated Under/(Over) (G-F)
1	Direct Salary Costs	$ -	$ -	$ -	$ -	$ 11,427.94	$ 11,427.94	$ 11,427.94	$ -
2	Indirect Costs (163%)	$ -	$ -	$ -	$ -	$ 18,627.54	$ 18,627.54	$ 18,627.54	$ -
3	Subtotal Direct Salary Costs and Indirect Costs	$ -	$ -	$ -	$ -	$ 30,055.48	$ 30,055.48	$ 30,055.48	$ -
4	Travel	$ -	$ -	$ -	$ -	$ 691.00	$ 691.00	$ 691.00	$ -
5	Other Non-Salary Costs	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -
6	Subtotal Direct Non-Salary Costs	$ -	$ -	$ -	$ -	$ 691.00	$ 691.00	$ 691.00	$ -
7	Subcontractors	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -
8	Total Work Assignment Cost	$ -	$ -	$ -	$ -	$ 30,746.48	$ 30,746.48	$ 30,746.48	$ -
9	Fixed Fee	$ -	$ -	$ -	$ -	$ 1,923.55	$ 1,923.55	$ 1,923.55	$ -
10	Sub Management Fee	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -
11	Total Work Assignment Price	$ -	$ -	$ -	$ -	$ 32,670.03	$ 32,670.03	$ 32,670.03	$ -
12	Retainage (5%)	$ -	$ -	$ -	$ -	$ 1,633.50	$ 1,633.50	$ 1,633.50	$ -
13	Net Invoice Amount	$ -	$ -	$ -	$ -	$ 31,036.53	$ 31,036.53	$ 31,036.53	$ -

Project Manager (Engineer) _____ **Date:** _____

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Date Prepared _____
Billing Period _____
Invoice # _____
% Complete _____

SCHEDULE 2.11(g) Task 2
MONTHLY COST CONTROL REPORT
SUMMARY OF FISCAL INFORMATION

No.	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 Estimated Approved Budget	H Estimated Under/(Over) (G-F)
1	Direct Salary Costs	$ -	$ -	$ -	$ -	$ 39,575.61	$ 39,575.61	$ 39,575.61	$ -
1a	Direct Salary Costs (OT)	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -
2	Indirect Costs (163%)	$ -	$ -	$ -	$ -	$ 64,508.24	$ 64,508.24	$ 64,508.24	$ -
3	Subtotal Direct Salary Costs and Indirect Costs	$ -	$ -	$ -	$ -	$ 104,083.85	$ 104,083.85	$ 104,083.85	$ -
4	Travel	$ -	$ -	$ -	$ -	$ 6,712.00	$ 6,712.00	$ 6,712.00	$ -
5	Other Non-Salary Costs	$ -	$ -	$ -	$ -	$ 17,748.88	$ 17,748.88	$ 17,748.88	$ -
6	Subtotal Direct Non-Salary Costs	$ -	$ -	$ -	$ -	$ 24,460.88	$ 24,460.88	$ 24,460.88	$ -
7	Subcontractors	$ -	$ -	$ -	$ -	$ 98,745.82	$ 98,745.82	$ 98,745.82	$ -
8	Total Work Assignment Cost	$ -	$ -	$ -	$ -	$ 227,290.55	$ 227,290.55	$ 227,290.55	$ -
9	Fixed Fee	$ -	$ -	$ -	$ -	$ 6,661.37	$ 6,661.37	$ 6,661.37	$ -
10	Sub Management Fee	$ -	$ -	$ -	$ -	$ 3,662.35	$ 3,662.35	$ 3,662.35	$ -
11	Total Work Assignment Price	$ -	$ -	$ -	$ -	**$ 237,614.27**	**$ 237,614.27**	**$ 237,614.27**	$ -
12	Retainage (5%)	$ -	$ -	$ -	$ -	$ 11,880.71	$ 11,880.71	$ 11,880.71	$ -
13	Net Invoice Amount	$ -	$ -	$ -	$ -	**$ 225,733.55**	**$ 225,733.55**	**$ 225,733.55**	$ -

Project Manager (Engineer) _____ Date: _____

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Date Prepared _____
Billing Period _____
Invoice # _____
% Complete _____

SCHEDULE 2.11(g) Task 3
MONTHLY COST CONTROL REPORT
SUMMARY OF FISCAL INFORMATION

No.	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 Estimated Approved Budget	H Estimated Under/(Over) (G-F)
1	Direct Salary Costs	$ -	$ -	$ -	$ -	$ 30,781.38	$ 30,781.38	$ 30,781.38	$ -
2	Indirect Costs (163%)	$ -	$ -	$ -	$ -	$ 50,173.65	$ 50,173.65	$50,173.65	$ -
3	Subtotal Direct Salary Costs and Indirect Cost	$ -	$ -	$ -	$ -	$ 80,955.03	$ 80,955.03	$80,955.03	$ -
4	Travel/Office	$ -	$ -	$ -	$ -	$ 1,300.00	$ 1,300.00	$ 1,300.00	$ -
5	Other Non-Salary Costs	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -
6	Subtotal Direct Non-Salary Costs	$ -	$ -	$ -	$ -	$ 1,300.00	$ 1,300.00	$ 1,300.00	$ -
7	Subcontractors	$ -	$ -	$ -	$ -	$ 8,610.00	$ 8,610.00	$ 8,610.00	$ -
8	Total Work Assignment Cost	$ -	$ -	$ -	$ -	$ 90,865.03	$ 90,865.03	$ 90,865.03	$ -
9	Fixed Fee	$ -	$ -	$ -	$ -	$ 5,181.12	$ 5,181.12	$5,181.12	$ -
10	Sub Management Fee	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -
11	Total Work Assignment Price	$ -	$ -	$ -	$ -	$ 96,046.15	$ 96,046.15	$ 96,046.15	$ -
12	Retainage (5%)	$ -	$ -	$ -	$ -	$ 4,802.31	$ 4,802.31	$ 4,802.31	$ -
13	Net Invoice Amount	$ -	$ -	$ -	$ -	$ 91,243.84	$ 91,243.84	$ 91,243.84	$ -

Project Manager (Engineer) _____ Date: _____

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Date Prepared _____
Billing Period _____
Invoice # _____
% Complete _____

SCHEDULE 2.11(g) Task 4
MONTHLY COST CONTROL REPORT
SUMMARY OF FISCAL INFORMATION

No.	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 Estimated Approved Budget	H Estimated Under/(Over) (G-F)
1	Direct Salary Costs	$ -	$ -	$ -	$ -	$ 2,004.01	$ 2,004.01	$ 2,004.01	$ -
2	Indirect Costs (163%)	$ -	$ -	$ -	$ -	$ 3,266.54	$ 3,266.54	$3,266.54	$ -
3	Subtotal Direct Salary Costs and Indirect Cost	$ -	$ -	$ -	$ -	$ 5,270.55	$ 5,270.55	$5,270.55	$ -
4	Travel/Office	$ -	$ -	$ -	$ -	$ 440.00	$ 440.00	$ 440.00	$ -
5	Other Non-Salary Costs	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -
6	Subtotal Direct Non-Salary Costs	$ -	$ -	$ -	$ -	$ 440.00	$ 440.00	$ 440.00	$ -
7	Subcontractors	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -
8	Total Work Assignment Cost	$ -	$ -	$ -	$ -	$ 5,710.55	$ 5,710.55	$ 5,710.55	$ -
9	Fixed Fee	$ -	$ -	$ -	$ -	$ 337.31	$ 337.31	$337.31	$ -
10	Sub Management Fee	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -
11	Total Work Assignment Price	**$ -**	**$ -**	**$ -**	**$ -**	**$ 6,047.86**	**$ 6,047.86**	**$ 6,047.86**	**$ -**
12	Retainage (5%)	$ -	$ -	$ -	$ -	$ 302.39	$ 302.39	$ 302.39	$ -
13	Net Invoice Amount	**$ -**	**$ -**	**$ -**	**$ -**	**$ 5,745.47**	**$ 5,745.47**	**$ 5,745.47**	**$ -**

Project Manager (Engineer) _____ Date: _____

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% Complete _____

SCHEDULE 2.11(g) Task 5
MONTHLY COST CONTROL REPORT
SUMMARY OF FISCAL INFORMATION

No.	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 Estimated Approved Budget	H Estimated Under/(Over) (G-F)
1	Direct Salary Costs	$ -	$ -	$ -	$ -	$ 7,398.46	$ 7,398.46	$ 7,398.46	$ -
2	Indirect Costs (163%)	$ -	$ -	$ -	$ -	$ 12,059.49	$ 12,059.49	$12,059.49	$ -
3	Subtotal Direct Salary Costs and Indirect Cost	$ -	$ -	$ -	$ -	$ 19,457.95	$ 19,457.95	$19,457.95	$ -
4	Travel/Office	$ -	$ -	$ -	$ -	$ 275.00	$ 275.00	$ 275.00	$ -
5	Other Non-Salary Costs	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -
6	Subtotal Direct Non-Salary Costs	$ -	$ -	$ -	$ -	$ 275.00	$ 275.00	$ 275.00	$ -
7	Subcontractors	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -
8	Total Work Assignment Cost	$ -	$ -	$ -	$ -	$ 19,732.95	$ 19,732.95	$ 19,732.95	$ -
9	Fixed Fee	$ -	$ -	$ -	$ -	$ 1,245.31	$ 1,245.31	$1,245.31	$ -
10	Sub Management Fee	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -
11	Total Work Assignment Price	$ -	$ -	$ -	$ -	$ 20,978.26	$ 20,978.26	$ 20,978.26	$ -
12	Retainage (5%)	$ -	$ -	$ -	$ -	$ 1,048.91	$ 1,048.91	$ 1,048.91	$ -
13	Net Invoice Amount	$ -	$ -	$ -	$ -	$ 19,929.35	$ 19,929.35	$ 19,929.35	$ -

Project Manager (Engineer) _____ Date: _____

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Date Prepared _____
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% Complete 0%

SCHEDULE 2.11(g) Task 6
MONTHLY COST CONTROL REPORT
SUMMARY OF FISCAL INFORMATION

No.	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 Estimated Approved Budget	H Estimated Under/(Over) (G-F)
1	Direct Salary Costs	$ -	$ -	$ -	$ -	$ 17,001.20	$ 17,001.20	$17,001.20	$ -
2	Indirect Costs (163%)	$ -	$ -	$ -	$ -	$ 27,711.96	$ 27,711.96	$27,711.96	$ -
3	Subtotal Direct Salary Costs and Indirect (	$ -	$ -	$ -	$ -	$ 44,713.16	$ 44,713.16	$44,713.16	$ -
4	Travel/Office	$ -	$ -	$ -	$ -	$ 3,451.00	$ 3,451.00	$ 3,451.00	$ -
5	Other Non-Salary Costs	$ -	$ -	$ -	$ -	$ 10,737.00	$ 10,737.00	$ 10,737.00	$ -
6	Subtotal Direct Non-Salary Costs	$ -	$ -	$ -	$ -	$ 14,188.00	$ 14,188.00	$ 14,188.00	$ -
7	Subcontractors	$ -	$ -	$ -	$ -	$ 6,340.00	$ 6,340.00	$ 6,340.00	$ -
8	Total Work Assignment Cost	$ -	$ -	$ -	$ -	$ 65,241.16	$ 65,241.16	$ 65,241.16	$ -
9	Fixed Fee	$ -	$ -	$ -	$ -	$ 2,861.64	$ 2,861.64	$2,861.64	$ -
10	Sub Management Fee	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -
11	Total Work Assignment Price	$ -	$ -	$ -	$ -	$ 68,102.80	$ 68,102.80	$ 68,102.80	$ -
12	Retainage (5%)	$ -	$ -	$ -	$ -	$ 3,405.14	$ 3,405.14	$ 3,405.14	$ -
13	Net Invoice Amount	$ -	$ -	$ -	$ -	$ 64,697.66	$ 64,697.66	$ 64,697.66	$ -

Project Manager (Engineer) _____ Date: _____

ENGINEERING CONTRACT #: D003666
Project Name: NATIONAL HEATSET PRINTING
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Date Prepared _____
Billing Period _____
Invoice # _____
% Complete 0%

SCHEDULE 2.11(g) Task 7
MONTHLY COST CONTROL REPORT
SUMMARY OF FISCAL INFORMATION

No.	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 Estimated Approved Budget	H Estimated Under/(Over) (G-F)
1	Direct Salary Costs	$ -	$ -	$ -	$ -	$ 3,011.50	$ 3,011.50	$3,011.50	$ -
2	Indirect Costs (163%)	$ -	$ -	$ -	$ -	$ 4,908.75	$ 4,908.75	$4,908.75	$ -
3	Subtotal Direct Salary Costs and Indirect Cos	$ -	$ -	$ -	$ -	$ 7,920.25	$ 7,920.25	$7,920.25	$ -
4	Travel/Office	$ -	$ -	$ -	$ -	$ 266.00	$ 266.00	$ 266.00	$ -
5	Other Non-Salary Costs	$ -	$ -	$ -	$ -	$ 2,042.00	$ 2,042.00	$ 2,042.00	$ -
6	Subtotal Direct Non-Salary Costs	$ -	$ -	$ -	$ -	$ 2,308.00	$ 2,308.00	$ 2,308.00	$ -
7	Subcontractors	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -
8	Total Work Assignment Cost	$ -	$ -	$ -	$ -	$ 10,228.25	$ 10,228.25	$ 10,228.25	$ -
9	Fixed Fee	$ -	$ -	$ -	$ -	$ 506.90	$ 506.90	$506.90	$ -
10	Sub Management Fee	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -
11	Total Work Assignment Price	$ -	$ -	$ -	$ -	$ 10,735.14	$ 10,735.14	$ 10,735.14	$ -
12	Retainage (5%)	$ -	$ -	$ -	$ -	$ 536.76	$ 536.76	$ 536.76	$ -
13	Net Invoice Amount	$ -	$ -	$ -	$ -	$ 10,198.38	$ 10,198.38	$ 10,198.38	$ -

Project Manager (Engineer) _____ Date: _____

ENGINEERING CONTRACT #: D003666
Project Name: NATIONAL HEATSET PRINTING
Work Assignment #: D003666-29

Date Prepared _____
Billing Period _____
Invoice # _____

SCHEDULE 2.11(g) Supplemental
MONTHLY COST CONTROL REPORT FOR UNIT PRICE SUBCONTRACTORS
SUMMARY OF FISCAL INFORMATION

No.	Subcontractor Name	A Sub Contract Costs Claimed This Period	B Sub Contract Costs Approved for Payment on Prev. Applications	C Total Sub Contract Costs to Date (A+B)	D Sub Contract Approved Budget	E Management Fee Budget	F Management Fee Paid	G Total Costs to Date (C+F)
1	Eco-Tron	$ -	$ -	$ -	$ 6,488.00	$ -	$ -	$ -
2	EDV	$ -	$ -	$ -	$ 2,266.00	$ -	$ -	$ -
3	SJB Services, Inc.	$ -	$ -	$ -	$ 45,057.00	$ 2,252.85	$ -	$ -
4	Mitkem Corporation	$ -	$ -	$ -	$ 28,190.00	$ 1,409.50	$ -	$ -
5	Triangle	$ -	$ -	$ -	$ 8,610.00	$ -	$ -	$ -
6	To Be Determined	$ -	$ -	$ -	$ 3,000.00	$ -		
7	Con-Test	$ -	$ -	$ -	$ 1,104.00	$ -		
8	Zebra Environmental	$ -	$ -	$ -	$ 2,236.00	$ -		
						$ -	$ -	$ -
	Total	$ -	$ -	$ -	$ 96,951.00	$ 3,662.35	$ -	$ -

Project Manager (Engineer) _____ Date: _____

Notes:
1. Costs listed in columns A, B C and D do not include any management fee costs.
2. Management fee is applicable to only properly procured, satisfactorily completed, unit price subcontracts over $10,000.

ENGINEERING CONTRACT #: D003666
Project Name: NATIONAL HEATSET PRINTING
Work Assignment #: D003666-29

Date Prepared 05/05/00
Billing Period 01/01/00-1/31/01
Invoice No. 272973

MONTHLY COST CONTROL REPORT
SCHEDULE 2.11(h)

SUMMARY OF LABOR HOURS
NUMBER OF DIRECT LABOR HOURS EXPENDED TO DATE AND
ESTIMATED NUMBER OF DIRECT LABOR HOURS

NSPE Labor Class	8		7		6		5		4		3		2		1		Admin		Total No. of Direct Labor Hours	
Task No.	Exp.	Est.	Exp.	Est.	Exp.	Est.	Exp.	Est.	Exp.	Est.	Exp.	Est.	Exp.	Est.	Exp.	Est.	Exp.	Est.	Exp.	Est.
1		16		224		0		5		15		15		0		60			0	335
2		30		76		8		426		402		276		182		239			0	1,639
3		20		108		8		536		220		0		170		24			0	1,086
4		5		1		0		8		40		0		20		8			0	82
5		8		18		0		136		68		0		16		12			0	258
6		0		44		0		174		152		84		230		0			0	684
7		0		12		0		32		32		24		10		0			56	110
TOTAL	0	79	0	483	0	16	0	1,317	0	929	0	399	0	628	0	343	0	0	56	4,194

TO-14 Analysis

ITEM: Summa Cannister and analysis - Normal Turnaroun

BASIS OF AWARD: NO.	1

1. Lowest Total Cost
2. Sole Source or Property Items
3. Emergency Response
4. Only Technically Accepted Supplier
5. Lead Time
6. Limited Source Due To Geographical Area
7. Other

PROJECT NUMBER 802901

PREPARED BY: Heide Dudek

PROJECT NAME / STATE National Heatset/New York

DATE: 10-Jul-01

ORDER REQUIRED ON SITE BY: 18-Jul-01

Recommended Vendor # 1

Project Admin.:

Procurement Rep.:

		1		2		3		4		
	Vendor	Con-Test		Air Toxics		Mitkem Corporation				
	Vendor Rep.	Lisa Veratti		Robin Walla		Kristen Barber				
	Phone	413-525-2332		732-747-3252		401-732-3400				
	Quote #									
	Date	07/09/2001		07/09/2001		07/09/2001				
	Terms	30-day		30-day		30-day				
	Deliv. Time	July 18th		July 18th		July 18th				
	Other									
	Quantity	Unit Price	Extended	Unit Price	Extended	Unit Price	Extended	Unit Price	Extended	Unit Price
Summa Cannister including EPA TO14 analysis, flow controller (8-hr), cleaning	4	$240.00	$960.00	$315.00	$1,260.00	$375.00	$1,500.00		$0.00	
			$0.00		$0.00		$0.00		$0.00	
			$0.00		$0.00		$0.00		$0.00	
			$0.00		$0.00		$0.00		$0.00	
			$0.00		$0.00		$0.00		$0.00	
			$0.00		$0.00		$0.00		$0.00	
			$0.00		$0.00		$0.00		$0.00	
			$0.00		$0.00		$0.00		$0.00	
			$0.00		$0.00		$0.00		$0.00	
			$0.00		$0.00		$0.00		$0.00	
			$0.00		$0.00		$0.00		$0.00	
			$0.00		$0.00		$0.00		$0.00	
			$0.00		$0.00		$0.00		$0.00	
			$0.00		$0.00		$0.00		$0.00	
			$0.00		$0.00		$0.00		$0.00	
			$0.00		$0.00		$0.00		$0.00	
			$0.00		$0.00		$0.00		$0.00	
			$0.00		$0.00		$0.00		$0.00	
			$0.00		$0.00		$0.00		$0.00	
			$0.00		$0.00		$0.00		$0.00	
			$0.00		$0.00		$0.00		$0.00	
			$0.00		$0.00		$0.00		$0.00	
Notes:	Subtotal		$960.00		$1,260.00		$1,500.00		$0.00	
	Tax	0.00	$0.00	%	$0.00	%	$0.00	%	$0.00	%
	Freight		$0.00		$0.00		$0.00		$0.00	
	Total		$960.00		$1,260.00		$1,500.00		$0.00	

ITEM: Summa Cannister and analysis - 7 day Turnaround

BASIS OF AWARD: NO. 1

1. Lowest Total Cost
2. Sole Source or Property Items
3. Emergency Response
4. Only Technically Accepted Supplier
5. Lead Time
6. Limited Source Due To Geographical Area
7. Other

Recommended Vendor # 1

Project Admin.:

Procurement Rep.:

PROJECT NUMBER 802901

PREPARED BY: Heide Dudek

PROJECT NAME / STATE National Heatset/New York

DATE: 10-Jul-01

ORDER REQUIRED ON SITE BY: 18-Jul-01

		1		2		3		4		
	Vendor	Con-Test		Air Toxics		Mitkem Corporation				
	Vendor Rep.	Lisa Veratti		Robin Walla		Kristen Barber				
	Phone	413-525-2332		732-747-3252		401-732-3400				
	Quote #									
	Date	07/09/2001		07/09/2001		07/09/2001				
	Terms	30-day		30-day		30-day				
	Deliv. Time	July 18th		July 18th		July 18th				
	Other									
	Quantity	Unit Price	Extended	Unit Price	Extended	Unit Price	Extended	Unit Price	Extended	Unit Price
Summa Cannister including EPA TO14 analysis, flow controller (8-hr), cleaning	4	$240.00	$960.00	$315.00	$1,260.00	$468.75	$1,875.00		$0.00	
			$0.00		$0.00		$0.00		$0.00	
			$0.00		$0.00		$0.00		$0.00	
			$0.00		$0.00		$0.00		$0.00	
			$0.00		$0.00		$0.00		$0.00	
			$0.00		$0.00		$0.00		$0.00	
			$0.00		$0.00		$0.00		$0.00	
			$0.00		$0.00		$0.00		$0.00	
			$0.00		$0.00		$0.00		$0.00	
			$0.00		$0.00		$0.00		$0.00	
			$0.00		$0.00		$0.00		$0.00	
			$0.00		$0.00		$0.00		$0.00	
			$0.00		$0.00		$0.00		$0.00	
			$0.00		$0.00		$0.00		$0.00	
			$0.00		$0.00		$0.00		$0.00	
			$0.00		$0.00		$0.00		$0.00	
			$0.00		$0.00		$0.00		$0.00	
			$0.00		$0.00		$0.00		$0.00	
			$0.00		$0.00		$0.00		$0.00	
			$0.00		$0.00		$0.00		$0.00	
			$0.00		$0.00		$0.00		$0.00	
			$0.00		$0.00		$0.00		$0.00	
Notes:	Subtotal	[redacted]	$960.00	[redacted]	$1,260.00	[redacted]	$1,875.00	[redacted]	$0.00	[redacted]
	Tax	[redacted]	$0.00	[redacted]	$0.00	[redacted]	$0.00	[redacted]	$0.00	[redacted]
	Freight	[redacted]	$0.00	[redacted]	$0.00	[redacted]	$0.00	[redacted]	$0.00	[redacted]
	Total	[redacted]	$960.00	[redacted]	$1,260.00	[redacted]	$1,875.00	[redacted]	$0.00	[redacted]

ITEM: Summa Cannister and analysis - 5-day Turnaround

BASIS OF AWARD: NO. 1

PROJECT NUMBER 802901

1. Lowest Total Cost
2. Sole Source or Property Items
3. Emergency Response
4. Only Technically Accepted Supplier
5. Lead Time
6. Limited Source Due To Geographical Area
7. Other

PREPARED BY: Heide Dudek

PROJECT NAME / STATE National Heatset/New York

DATE: 10-Jul-01

ORDER REQUIRED ON SITE BY: July 18th 2001

Recommended Vendor # 1

Project Admin.:

Procurement Rep.:

		1		2		3		4		
	Vendor	Con-Test		Air Toxics		Mitkem Corporation				
	Vendor Rep.	Lisa Veratti		Robin Walla		Kristen Barber				
	Phone	413-525-2332		732-747-3252		401-732-3400				
	Quote #									
	Date	07/09/2001		07/09/2001		07/09/2001				
	Terms	30-day		30-day		30-day				
	Deliv. Time	July 18th		July 18th		July 18th				
	Other									
	Quantity	Unit Price	Extended	Unit Price	Extended	Unit Price	Extended	Unit Price	Extended	Unit Price
Summa Cannister including EPA TO14 analysis, flow controller (8-hr), cleaning	4	$276.00	$1,104.00	$346.50	$1,386.00	$562.50	$2,250.00		$0.00	
			$0.00		$0.00		$0.00		$0.00	
			$0.00		$0.00		$0.00		$0.00	
			$0.00		$0.00		$0.00		$0.00	
			$0.00		$0.00		$0.00		$0.00	
			$0.00		$0.00		$0.00		$0.00	
			$0.00		$0.00		$0.00		$0.00	
			$0.00		$0.00		$0.00		$0.00	
			$0.00		$0.00		$0.00		$0.00	
			$0.00		$0.00		$0.00		$0.00	
			$0.00		$0.00		$0.00		$0.00	
			$0.00		$0.00		$0.00		$0.00	
			$0.00		$0.00		$0.00		$0.00	
			$0.00		$0.00		$0.00		$0.00	
			$0.00		$0.00		$0.00		$0.00	
			$0.00		$0.00		$0.00		$0.00	
			$0.00		$0.00		$0.00		$0.00	
			$0.00		$0.00		$0.00		$0.00	
			$0.00		$0.00		$0.00		$0.00	
			$0.00		$0.00		$0.00		$0.00	
			$0.00		$0.00		$0.00		$0.00	
			$0.00		$0.00		$0.00		$0.00	
Notes:	Subtotal	[redacted]	$1,104.00	[redacted]	$1,386.00	[redacted]	$2,250.00	[redacted]	$0.00	[redacted]
	Tax	[redacted]	$0.00	[redacted]	$0.00	[redacted]	$0.00	[redacted]	$0.00	[redacted]
	Freight	[redacted]	$0.00	[redacted]	$0.00	[redacted]	$0.00	[redacted]	$0.00	[redacted]
	Total	[redacted]	$1,104.00	[redacted]	$1,386.00	[redacted]	$2,250.00	[redacted]	$0.00	[redacted]

INTERNATIONAL TECHNOLOGY CORPORATION

802901-006

DATE 7/9/01 TIME

PROJECT NO. Heatset

NAME

RECORD

OF TELEPHONE CALL

TELEPHONE NO. 413 - 525-2332

TO Con-Test / Lisa Verati OF

FROM H Dudek OF IT

SUBJECT DISCUSSED

ACTION TO BE TAKEN

Please provide quote for 4(four) Summa canisters for 8 hr ambient air sampling ?A TO14 include flow controllers.

N TAT

5D TAT

7D TAT

to Holbrook July 18th, sampling July 19th

19A-7-85

39 Spruce Street
East Longmeadow, MA 01028
Phone: (413) 525-2332
Fax: (413) 525-6405

con-test®
ANALYTICAL LABORATORY

Fax

To:	Ms. Heidi Dudek	**From:**	Lisa Veratti
Fax:	518-783-8397	**Date:**	July 9, 2001
Phone:	518-783-1996	**Pages:**	3 Including This Page

Dear Heidi,

Attached you'll find a bid proposal for your upcoming Air sampling project. CON-TEST Analytical Laboratory is proudly an AIHA Accredited and NELAC Certified Laboratory. Let me know if you need any further information. Also, please remember when looking at our price proposal that we have NO RENTAL FEES on our Summa canisters or flow-regulators. We do NOT charge a cleaning fee. Our pricing is all-inclusive and we will absorb shipping costs one-way. I'll give you a call to make sure you received this transmittal and call me with any questions.

Best regards,

Lisa Veratti

CON-TEST Analytical Laboratory

39 Spruce St, 2nd Floor

East Longmeadow, MA 01028

413-525-2332 ext.17

Fax 413-525-6405

Lveratti@contestlabs.com

con-test®
ANALYTICAL LABORATORY

Monday, July 09, 2001

Ms. Heidi Dudek
IT Corporation
Latham, NY

Dear Heidi:

I am pleased to provide you with a modified proposal for your requested air project. Con-Test thanks you again for your interest in our services. You requested the use of Summa canisters for this air project and those will be provided to you FREE-OF-COST. There are no rental fees on our Summa canisters or flow regulators. Our Air Laboratory will pre-calibrate and clean the flow-controllers for you before sampling. Con-Test will also deliver or ship the Summa canisters and flow-regulators to Holbrooke as part of our complimentary service (we absorb shipping costs one-way). Contact me with any questions and we look forward to servicing your analytical needs.

Investment Schedule for IT Corp. Holbrooke, NY Air Analyses

Parameters	***Unit Cost***	***Total Cost***
4 Air Samples		
EPA Method TO-14A	*$ 240.00*	*$ 960.00*
Summa Canisters	*No Cost*	
8-Hr. Flow Regulators	*No Cost*	
Canister Cleaning	*No Cost*	

Total Estimated Cost = $ 960.00 (5-7 days)
Total Estimated Cost = $ 1,104.00 (5 day)

CON-TEST Analytical Laboratory has a standard turnaround time of 5-7 working days. For a guaranteed 5 working day turnaround, we charge a 15% surcharge (or cost x 1.15).

The above pricing is based on a 5-7 working day Turnaround time

TERMS, CONDITIONS & ADDITIONAL SERVICES:

Sample Media:
Sampling media will be supplied to you **free of charge.** All sampling media is cleaned by a molecular drag pump and we have state-of-the-art cleaning systems. All associated chain of custody forms and labels are also supplied free of charge. Two days notice is generally required for bottle preparation. Con-Test will either ship or deliver bottles to your facility.

con-test®
ANALYTICAL LABORATORY

Courier Service:
The laboratory has a full time courier service to facilitate sample return to the laboratory. Courier service is supplied free of charge (within a 100-mile radius).

Expedited Turnaround:
There are often situations when the client requires a more rapid turnaround. Con-Test understands the needs for rapid and dependable turnaround time, therefore, the following turnarounds and corresponding surcharges are offered.

RUSH Turnaround Times	Surcharge
24 hours (must be pre-approved)	100% or (cost x 2.00)
48 hours	75% or (cost x 1.75)
72 hours	50% or (cost x 1.50)
4 day	25% or (cost x 1.25)
5 day guarantee	15% or (cost x 1.15)

Terms and Conditions:
Laboratory prices are fixed for a one-year period. Prices are subject to change after this period. Payment terms are net Thirty (30) days from date of invoice. Accounts that are over the agreed payment grace period are subject to a 1-% monthly surcharge. Invoices will be submitted with each analytical report for services rendered.

We look forward to being of service to you for your analytical needs. If you have any questions pertaining to this proposal please contact me directly at (413) 525-2332 extension 17.

Sincerely,

Lisa Veratti
CON-TEST Analytical Laboratory
39 Spruce Street, Second Floor
East Longmeadow, MA 01028
413-525-2332 ext.17
Fax 413-525-6405
www.ContestLabs.com
Lveratti@ContestLabs.com

INTERNATIONAL TECHNOLOGY CORPORATION

DATE 7/9/01 TIME

PROJECT NO. National Heatset

NAME

RECORD

OF TELEPHONE CALL

TELEPHONE NO. 717-656-2301

TO Lancaster labs / Dick Ente OF

FROM H Dudek OF IT

SUBJECT DISCUSSED

ACTION TO BE TAKEN

Please provide a quote for 4 (four) Summa canisters for 8 hour ambient air sampling EPA TO14, include ~~flow~~ controllers

N TAT

5D TAT

7D TAT

to Holbrook July 18th, sampling July 19th

19A-7-85

INTERNATIONAL TECHNOLOGY CORPORATION

DATE 7/9/01 TIME _____

PROJECT NO. Heaket

NAME _____

RECORD

OF TELEPHONE CALL

TELEPHONE NO. 401-732-3400

TO M.t.Kem / Kristen Barber OF M.t.Kem

FROM Heidi Dudek OF IT

SUBJECT DISCUSSED

ACTION TO BE TAKEN

Please provide a quote for 4(four) Summa Canisters for 8-hour ambient Air Sampling EPA TO14. include flow controllers

N TAT

5D-TAT

7D TAT

For Holbrook delivery 18th July, Sampling 19th

19A-7-85

MITKEM CORPORATION

"Environmental Testing For The New Millennium"

175 Metro Center Boulevard
Warwick, Rhode Island 02886-1755
Phone: (401)-732-3400 Fax: (401)-732-3499
Email: kbarber@mitkem.com

FACSIMILE COVER SHEET

TO: Heather Dudek **FROM:** Kristen Barber - Project Manager

COMPANY: IT Corp **DATE:** 7/8/01

FAX NUMBER: 518-783-8392 **NUMBER OF PAGES:** 2
(Including cover sheet)

REFERENCE: Quote for Air samples

COMMENTS: Thanks!

MITKEM CORPORATION

PROPOSAL/PROJECT FORM

Proposal #: 010708.01
Project Name / #: NYSDEC
Contact: Heather Dudek
Company: IT Corporation
Address: 13 British American Blvd.
Latham, NY 12110
Phone: 518-783-1996
Fax: 518-783-8397

Initiator: Kristen Barber
Initiation Date: 7-8-01
Project Start Date: Summer 2001
Duration: 1 event
Turnaround Time: 21 Days*
Hard Copy Deliverable: ASP Category B
Electronic Deliverable: GIS Key
QA/QC Level: NYSDEC ASP

Quantity	Analysis	Matrix	Unit Cost	Total Cost
4	T0-14 Volatiles by summa cannister	Air	$375.00	$1,500.00
	(price includes cannister; flow controller			
	and analysis)			
	* +25% for 10 day TAT;			
	+50% for 5 day TAT			
	-			
-			**Total:**	$1,500.00

Terms and Conditions:

- Price Proposal is valid for 60 days from initiation. Payment terms are net 30 days.
- Pricing includes costs of containers, preservatives, coolers, COC, etc.
- Mitkem will provide delivery of items listed above at no extra charge given 72 hours advanced notice.
- Prices are based solely on sample quantities, QA/QC, deliverables and turnaround time stated in this quotation.
- For CLP & CLP like analyses: matrix spikes/matrix spike duplicates and matrix spike blank are billable at unit rate.
- Mitkem reserves the right to return highly hazardous, toxic and/or radioactive samples to the client.
- See attached work authorization (agreement) for additional terms and conditions.

Signature

7/8/01
Date

INTERNATIONAL TECHNOLOGY CORPORATION

DATE 7/9/01 TIME

PROJECT NO. Heatset

NAME

RECORD OF TELEPHONE CALL

TELEPHONE NO. 1-800-985-5955

TO Air Toxics / Lisa OF

FROM H Dudek OF IT

SUBJECT DISCUSSED

ACTION TO BE TAKEN

Please provide quote for (4) four Summa Canisters for 8-hour ambient air sampling EPA TO14 include flow controllers

N TAT

5D TAT

7D TAT

B Holbrook July 18th, sampling July 19th

19A-7-85

AIR TOXICS LTD.

AN ENVIRONMENTAL ANALYTICAL LABORATORY

Jefferson Square Building
631 Shrewsbury Ave
Shrewsbury, NJ 07702

Phone (732) 747-3252
FAX (732) 747-6047
Hours 8:00 A.M. to 5:00 P.M. Eastern

COMPANY: IT Corporation

ATTENTION: Heidi Dudek

FAX #: 518-783-8397

FROM: Robin Walla

PAGES (Including cover) 5

COMMENTS:

Hi Heidi -- Following is the quote you requested per your discussion with Lisa Argento. I am Air Toxics Ltd's Eastern Region Representative and am here in New Jersey to assist you with quotations, technical inquiries and any other questions regarding our services. Please feel free to call.

Sincerely,
Robin Walla

Standard Turnaround time is 10 Business Days for Faxed Results
INVOICING ON NET 30 BASIS

Prices quoted are valid for 90 days. Sample media and equipment are provided in support of the analytical services. This is not a rental transaction.

Air Toxics Ltd. (ATL) is certified by the State of California Department of Health Services, New York Department of Health, Utah Department of Health, and Arizona Department of Health. We are validated by the U.S. Army Corps of Engineers-Missouri River Division and serve as a Quality Assurance laboratory for the New England and Sacramento Districts. ATL is also a participant in the NIOSH PAT proficiency program.

Client bears sole responsibility for determining the applicability of and compliance with all regulations applicable to the shipment of samples back to the laboratory. Air Toxics Limited assumes no liability with respect to the collection, handling, or shipping of samples. D.O.T. HAZMAT Hotline (800) 467-4922.

@ AIR TOXICS LTD.

AN ENVIRONMENTAL ANALYTICAL LABORATORY

Q13848

TO: Heidi Dudek
IT Corporation
13 British American Blvd.
Latham NY 12110

PHONE: 518-783-1996
FAX: 518-783-8397

FROM: Robin Walla

SUBJECT: Quotation for Analytical Services - NY DEC Project

DATE: 7/9/01

AIR TOXICS LTD is pleased to provide you a quote for analytical services relating to the analysis of air samples using modified EPA Method TO-14. Please call if you have questions or need additional information.

Quote

EPA Method TO-14 ..... $235 ea.
- GC/MS,Full Scan
- MDL = 0.5-2.0 ppbv
- ATL's Standard Compound List
- Standard Report

No Charge QA/QC
- 10% Laboratory Blanks
- 10% Sample Duplicates
- 10% Method Spikes
- 100% Surrogate Spikes

Note: The cited detection limits do not take into account sample dilution due to the canister pressurization and/or sample matrix interferences.

Surcharges for Rush Turnaround Times:
- 24 hr 100%
- 48 hr 50%
- 72 hr 25%
- 5 days 10%

All turnaround times are based on business days.

6L Summa Canister, cleaned and batch certified to 0.2 ppbv ..... $55 ea.
Flow Controller, optional ..... $25 ea.
- Used when collecting samples over a specified period of time, ie 8 hours.
- Includes shipment to the site.

AIR TOXICS LTD.

Method : TO-14 Standard

Compound	Rpt. Limit (ppbv)
Freon 12	0.50
Freon 114	0.50
Chloromethane	0.50
Vinyl Chloride	0.50
Bromomethane	0.50
Chloroethane	0.50
Freon 11	0.50
1,1-Dichloroethene	0.50
Freon 113	0.50
Methylene Chloride	0.50
1,1-Dichloroethane	0.50
cis-1,2-Dichloroethene	0.50
Chloroform	0.50
1,1,1-Trichloroethane	0.50
Carbon Tetrachloride	0.50
Benzene	0.50
1,2-Dichloroethane	0.50
Trichloroethene	0.50
1,2-Dichloropropane	0.50
cis-1,3-Dichloropropene	0.50
Toluene	0.50
trans-1,3-Dichloropropene	0.50
1,1,2-Trichloroethane	0.50
Tetrachloroethene	0.50
Ethylene Dibromide	0.50
Chlorobenzene	0.50
Ethyl Benzene	0.50
m,p-Xylene	0.50
o-Xylene	0.50
Styrene	0.50
1,1,2,2-Tetrachloroethane	0.50
1,3,5-Trimethylbenzene	0.50
1,2,4-Trimethylbenzene	0.50
1,3-Dichlorobenzene	0.50
1,4-Dichlorobenzene	0.50
Chlorotoluene	0.50
1,2-Dichlorobenzene	0.50
1,2,4-Trichlorobenzene	0.50
Hexachlorobutadiene	0.50
Propylene	2.0
1,3-Butadiene	2.0
Acetone	2.0
Carbon Disulfide	2.0
2-Propanol	2.0
trans-1,2-Dichloroethene	2.0
Vinyl Acetate	2.0

AIR TOXICS LTD.

Method : TO-14

Compound	Rpt. Limit (ppbv)
2-Butanone (Methyl Ethyl Ketone)	2.0
Hexane	2.0
Tetrahydrofuran	2.0
Cyclohexane	2.0
1,4-Dioxane	2.0
Bromodichloromethane	2.0
4-Methyl-2-pentanone	2.0
2-Hexanone	2.0
Dibromochloromethane	2.0
Bromoform	2.0
4-Ethyltoluene	2.0
Ethanol	2.0
Methyl tert-Butyl Ether	2.0
Heptane	2.0

Surrogate	Method Limits
Octafluorotoluene	70-130
Toluene-d8	70-130
4-Bromofluorobenzene	70-130

Geoprobe Services

TELEPHONE QUOTATION SUMMARY FORM

Michael Sykes
Prepared By

10/29/01
Date

	VENDOR 1	VENDOR 2	VENDOR 3
Bidder Name	Impact Environmental	Zebra Environmental	Parrot Wolfe
Bidder Address			
Contact Name			
Bidder Phone #	815-223-1500	516-596-6300	1-800-527-7920
Date Quoted			
FOB/Ship.Terms			
Payment Terms			

Item No	Description	Quantity	Unit /	Extension	Unit /	Extension	Unit /	Extension
1	Day rate for geoprobe crew	1	$1,200.00	$1,200.00	$1,075	$1,075.00	$1,300.00	$1,300.00
2	Concrete Core	1	$200.00	$200.00	$125	$125.00	$0.00	$0.00
3	Sample Charge	30	Inc.	$0.00	$9	$270.00		$0.00
4	Mobilization	1	Inc.	$0.00	$65	$65.00	$1,200	$1,200.00
5	Generator	1	$189.00	$189.00	Inc.	$0.00	Incl.	$0.00
6	Well installation	6	$100.00	$600.00	$59	$351.00	75	$450.00
7	Weekend Charges	1	$300.00	$300.00	$350	$350.00	$350	$350.00
SUBTOTAL:				$2,489.00		$2,236.00		$3,300.00
Freight:				-		-		-
TOTAL:				$2,489.00		$2,236.00		$3,300.00

INSTRUCTIONS: This form should be used for orders under $25,000.00 only.

1. Enter bidder's name.
2. Ener bidder's address.
3. Enter name of contact for the above named bidder.
4. Enter bidder's phone number with area code listed first.
5. Enter date phone quote was received.
6. Enter shipping terms.
7. Enter payment terms acceptable by bidder.
8. Enter item number if appropriate.
9. Enter detailed and specific description of item quoted.
10. Enter unit cost, units needed and extend to a total price value.

ZEBRA

IT Corporation
13 British American Boulevard
Latham, New York 12110-1405

August 29, 2001

Attention: Mr. Mike Sykes

RE: Proposal for Geoprobe Sampling Services
Active Warehouse
Farmingdale, New York
ZEBRA Proposal #: GP04849

Dear Mr. Sykes:

As per our telephone conversation yesterday afternoon, ZEBRA Environmental is pleased to submit the following proposal for the collection of soil samples and the installation of vapor extraction points at the above-referenced site located in Farmingdale, New York.

ZEBRA understands the scope of work to include the collection of soil samples to an approximate depth of 20' below land surface at approximately six (6) locations to be identified by IT Corporation's on-site representative.

In addition to the soil samples, the ZEBRA probe crew will be prepared to install three (3) PVC vapor extraction points to an approximate depth of 20' below land surface. Each monitoring point will consist of 10' of 1" diameter PVC screen and 10' of riser.

Scope of Work

- ZEBRA will mobilize a fully equipped vehicle-mounted Geoprobe unit to the job site with an Operator and Technician to work in a coordinated fashion with a representative from IT Corporation. ZEBRA operates seventeen (17) probe units mounted on a variety of carrier vehicles including four (4) ATV units, 4X4 pick-ups, standard cargo vans, three (3) propane powered remote probe units which can be used in areas not accessible with a vehicle, a new Model 540B mounted on a CASE skid steer loader, and two (2) track mounted Geoprobe Model 54DT's. ZEBRA will mobilize the equipment best suited to the project requirements. Please note that specialized probe equipment is not available at each ZEBRA location and an additional mobilization charge may be necessary if a particular probe unit is required.

- The location of the probe points to be designated by IT Corporation must be accessible with one of ZEBRA's Geoprobe equipped vehicles. Manually driven points using a slide hammer and retrieval jack may be possible in some locations, however, achievable depth will be limited. In addition to the option of manually driven points, ZEBRA has designed a remote probe unit capable of being placed indoors, in basements (down elevators), or other areas of limited access. If there is a potential application for this unit, please contact one of our offices prior to project scheduling.

It should be noted that delays in gaining access to each sampling location will lengthen the project duration.

ZEBRA ENVIRONMENTAL CORP.
30 NORTH PROSPECT AVE., LYNBROOK, NY 11563 • (516) 596-6300 FAX: (516) 596-4422

If at all possible, identifying the sampling locations and coordinating the removal of obstructions (i.e. cars, machinery, inventory, debris, etc.) with the property owner prior to ZEBRA's arrival on site will expedite the project schedule. The ZEBRA probe crew can provide site clearing services if advised in advance of arrival. Additional equipment and tools (i.e. chain saws, weed trimmer, pole saws, etc.) can also be provided.

- ZEBRA's vehicle mounted probe units are equipped with rotary concrete drill bits capable of cutting through between 4" to 6" of standard sidewalk/flooring pavement. If reinforced concrete or pavement greater than 8" to 10" in thickness is anticipated, a thin wall concrete core drill should be brought to the site. ZEBRA can provide a concrete core drill, diamond bits, and generator at a rate of $185./day.

- To collect soil samples, a Macro Core open sampler will be used. These samplers are open tube design and measure approximately 2" in diameter by 46" long. The samplers are fitted with a removable cutting shoe and clear acetate liner. Samples can be collected from 0' to 4', 4' to 8', and 8' to 12' below land surface or possibly deeper depending on subsurface conditions. If probe hole "cave-in" is significant at the lower depths, it may be necessary to use the closed piston assembly that fits into the MC cutting shoe or to switch to the Large Bore (LB) drive point sampler.

- ZEBRA will rely on IT Corporation to provide sample containers and any on-site sample screening unless other arrangements are made prior to project commencement. ZEBRA can provide a portable field Photoionization Detector at a rate of $125./day.

DECON: All sampling tools will be decontaminated with Alconox and water between probe holes and all poly tubing and acetate liners will be discarded after use. A steam/pressure washing unit with a portable generator can be provided at a rate of $215./day if requested. Please advise prior to project mobilization whether a decon pad and the collection of rinsate is required. A small charge may apply should a decon pad need to be constructed. D.O.T. steel drums can be provided at $45./drum.

UTILITY CLEARANCE/MARK OUTS: IT Corporation or the property owner must verify the location of all underground utilities and structures in the work area. ZEBRA cannot be responsible for the repair or replacement of any underground utility or structure damaged during work under IT Corporation's direction.

ZEBRA's lead operator will ask IT Corporation's on-site representative to sign a form stating that all the necessary steps have been taken by IT Corporation to locate and mark all underground utilities and structures prior to beginning any subsurface work.

PROBE HOLE CLOSURE: All probe holes (approximately 1½" in diameter) will be backfilled with indigenous soil and/or clean sand. If drilling through surface pavement is required, the pavement will be repaired with either ready mix concrete or cold patch asphalt (depending on existing pavement). ZEBRA can provide a high-pressure grout system (Geoprobe GS 1000) to seal the boreholes. This system is capable of delivering grout (or slurried Oxygen Release Compound, ORC) through small diameter tubing or rods at pressures between 500 and 1,000 psi.

IT Corporation must advise ZEBRA of the projects probe hole closure requirements prior to project mobilization.

PROBE TOOL REFUSAL: ZEBRA's probe operators have been trained to identify site-specific indicators that can lead to probe tool loss and/or damage. These indicators include: slow advancement of probe tools (refusal), noticeable changes in probe driving conditions, evidence of subsurface debris or fill material, bent/damaged tools and samplers at previous sampling points, difficulty in pulling/retrieving tools, and severe deflections.

ZEBRA's probe operators have been instructed to use their best judgment to determine if ZEBRA should continue probing at a specific location. If it is determined that continued probing is beyond reasonable limits, the lead operator will notify our client's on-site representative. Based on our client's determination that it is necessary to attempt to probe further, ZEBRA's lead operator will request written authorization from our client's on-site representative. The authorization form will be an agreement from our client to reimburse ZEBRA (at our cost without markup) for any tools that are lost or damaged by proceeding at that location.

ANTICIPATED CONTAMINANT LEVELS: It is our understanding that IT Corporation agrees to provide ZEBRA with all available information regarding potential Health and Safety issues, including anticipated contaminant levels and exposure pathways, so that appropriate measures can be implemented to manage risks. In the event unanticipated conditions are present during the performance of ZEBRA's activities, the lead operator will notify IT Corporation and the ZEBRA client representative so that the scope of work can be modified to accommodate risk reduction.

Cost Estimate

ZEBRA estimates that the requested scope of work can be completed in one (1) eight-hour day. ZEBRA will provide a fully equipped Geoprobe unit with an Operator and Technician at the following rates:

Please note that these unit prices and anticipated production rates are based on contaminant exposure levels requiring a maximum of Level D Personal Protective Equipment (PPE). Prior to project mobilization, additional information regarding potential contaminants and anticipated exposure levels must be reviewed and evaluated. If potential exposure levels require greater than level D PPE, additional costs may be incurred.

Geoprobe w/Two Man Crew $1,425.00
One (1) day @ $1,075./day plus $350 weekend surcharge.
Includes Operator and Technician on site for 8 hours, hand tools, fuel used on site, probe tools and vacuum/volume system. Time on site includes equipment unloading/tool preparation, sampling, probe tool decontamination and all safety related activities.

NOTE: These daily rates include up to 8 hours on site, should it become necessary to continue working on site beyond 8 hours, an additional charge of $150./hr will apply.

Please note that all probe tools and equipment must be properly deconed and stowed away while the crew is still on site. If the final decon procedure is not completed on site, a charge of $75 for off site decon must be charged.

Sample Charge **$270.00**
Estimate thirty (30) samples @ $9./sample.
Includes all expendable sampling supplies such as acetate liners, poly tubing, expendable drive points, and PPE (Level D). Also covers wear and tear on sampling equipment which has a limited useful life-span. Does not include flush threaded PVC wellpoint screen and riser which, if used, will be invoiced @ $3./ft for ¾" and $3.25/ft for 1".

Vapor Extraction Point Installation Materials **$351.00**
Estimate 60' of 1" diameter PVC @ $3.25/ft. plus three (3) flush mount well covers @ $52./point.

Concrete Core Drill **$125.00**
One (1) day @ $125./day.

Mobilization/Demobilization **$65.00**
Estimate one (1) round trip from Lynbrook, New York to Farmingdale, New York @ $65./trip. Includes crew travel time, mileage charge, and tolls.

Total Estimated Project Cost = $ 2,236.00

* **Please note that this cost estimate does not include state or local taxes, if applicable.**

Proposal Terms/Acceptance

The unit prices listed above are firm for 30 days. ZEBRA Environmental's payment terms are NET 15 days. This estimate is based upon the information available and our experience with projects of a similar nature. This proposal makes no provision for Federal, State, or local taxes, if applicable.

Prior to scheduling a project, ZEBRA must receive written acceptance of our proposal, unit pricing, and payment terms. To accept this proposal, please sign below and forward a copy to our office.

Please find attached a **ZEBRA Work Authorization Form.**. When scheduling a project, complete this form and fax to ZEBRA at (516) 596-4422. Completion of this form will help ZEBRA's probe crew and IT Corporation prepare for the project.

ZEBRA Environmental appreciates the opportunity to submit this proposal and looks forward to completing this project with IT Corporation. If you have any questions concerning this proposal, please do not hesitate to call us or visit our website at http://teamzebra.com/.

Sincerely yours,

Shawn Tibbetts/of

Shawn M. Tibbetts
ZEBRA Environmental Corp.
SMT:of

cc: Paul Fleischmann, ZEBRA

Accepted by: IT Corporation

_____
Signature Date

_____
Printed Name & Title

_____
Purchase Order/Work Authorization #
ZGP04849.SMT.WD6.of

IMPACT ENVIRONMENTAL
a division of impact environmental consulting, inc.
1 VILLAGE PLAZA
KINGS PARK, NEW YORK 11754
631.269.8800 TELEPHONE
631.269.1599 FACSIMILE
www.impactenvironmental.com

FAX

Confidential
Facsimile Transmission

☐ Attachments Included Hard Copy to Follow ☐

To: Mike Sykes **From:** Kristin Scrocca

Fax: (518) 783-8397 **Pages:** 3

Phone: **Date:** 10/22/01

Re: Proposal You Requested **CC:**

☐ **Urgent** ☐ **For Review** ☐ **Please Comment** ☐ **Please Reply** ☐ **Please Recycle**

• **Comments:**

The following is the proposal you requested. I will forward a hard copy to you via mail with a copy of our Terms and Conditions as well as a copy of our geotechnical brochure
Please feel free to call with any questions or concerns you may have.
Thank you again for your consideration of our services

IMPACT ENVIRONMENTAL
a division of impact environmental consulting, inc.

1 VILLAGE PLAZA
KINGS PARK, NEW YORK 11754
631.269.8800 TELEPHONE
631.269.1599 FACSIMILE
IMPACTENVIRONMENTAL.COM

PROPOSAL FOR SERVICES

I. INTRODUCTION

Impact Environmental Consulting Inc. is pleased to submit the following proposal to you for services. Our firm has been providing such services for more than six years. We are confident that we can satisfy your needs for this project. We look forward to a mutually beneficial relationship.

Where appropriate to the standard of care, the services proposed are based upon policies and procedures provided by Local, State and Federal Guidance Documents and/or Standards.

II. PARTIES

This proposal for services has been prepared for IT Corporation, herein referred to as CLIENT, by Impact Environmental, herein referred to as IEC.

III. DEFINITIONS

(1) Subject Property
The term used to describe property located at Job Location in Farmingdale.

(2) Geoprobe
A hydraulic subsurface soil or groundwater sampling unit mounted to either a motor vehicle, specialty vehicle or trailer form.

(3) Day Rate
Rate for a 8-hour day of Geoprobe services inclusive of travel time and end-of-day decontamination procedures.

IV. SCOPE OF SERVICES

Provide Geoprobe services on the subject property under the direction of the CLIENT. Geoprobe services are to include the installation of soil borings in six (6) locations to be specified on-site by the CLIENT. A core drill will first be utilized to core through approximately eight (8) inches of concrete at the specified boring locations. Continuous soil sampling will then be performed to a depth of twenty (20) feet below existing grade in each of boring locations utilizing the Geoprobe. After the continuous soil sampling is completed, a vapor monitoring point will be installed at each location. The vapor monitoring points will consist of 1-inch diameter Schedule 40 PVC with 0.020 slotted screens, screened from 10 to 20 feet below the ground surface.

V. FEE SCHEDULE

The project is anticipated to require 1 day to complete. IEC agrees to perform the listed scope of services, as follows:

- Geoprobe Services - *Day Rate* of $1,200/day
- Core Drill Fee - $200 per day
- Generator Fee - $189 per day
- Vapor Monitoring Point Materials - $100 each x 6 = $600

Additional (out of scope) services requested by CLIENT on site will be quoted separately, and CLIENT will be responsible for costs incurred.

CLIENT is responsible for making arrangements to provide access to all work areas (movement of vehicles, trailers, containers, excessive vegetation & debris, etc.) CLIENT will be charged accordingly at an hourly rate (plus mobilization/demobilization fee) if delays or unforeseen site conditions are encountered.

The Geoprobe services will be performed in accordance with good commercial and customary practice and generally accepted protocols within the consulting industry. IEC does not accept responsibility for limitations due to inherent technological limitations or site specific conditions. However, IEC will make appropriate efforts to identify and notify the CLIENT of such limitations and conditions.

VI. PAYMENT TERMS

Payment is due net thirty (30) days from completion of project.

VII. REQUESTED ITEMS FROM CLIENT

Please forward any and all of the following that are currently available:

1. Hard copy of site survey map.
2. Plans indicating the location of underground utilities.
3. Plans indicating the location of underground structures.
4. Utility mark-out case number.

VIII. OBLIGATIONS AND BENEFITS

This proposal is valid for a period of thirty (30) calendar days from the signature date shown below. Signing of this proposal will represent an AGREEMENT that shall be binding upon and insure to the benefit to the parties hereto, their successors, heirs, or assigns, as the case may be. In executing this agreement CLIENT acknowledges and accepts IEC's previously provided or attached General Terms and Conditions. A copy of our General Terms and Conditions can also be found at our web site at www.impactenvironmental.com.

Client	IT Corporation	Vendor:	Impact Environmental Consulting, Inc.
By:		By:	Kristin E. Scroope
Signature:		Signature:	Kristin E. Scroope
Date:		Date:	10/22/01

Electrical Engineer's Estimate

National HeatSet Printing 10/22/2001
Engineers Estimate for Electrical Work

Install one SVE (2Hp) system

SMC Plan

Cost Item No.	Description	Unit Type	Units	Unit Cost	Total Cost	Means Cost Data Number
1	Mortor Starter 2 Hp Wiring	Ea.	1	$355	$355	163 130 0100
2	Circuit Breaker Panel (60 Amp)	Each	1	$460	$460	163 205 0200
3	Motor (2 Hp)	ea	1	$365	$365	163 520 0250
4	Control Station Switch	ea	1	$141	$141	163 320 0200
5	Conduit 1-inch ridgid	ft	100	$7.95	$795	160 205 1750
6	Wire #8, 4 conductor	ft	100	$2.72	$272	161 165 0140
7	Motor connections	ea	1	$149	$149	160 275 0020
8	Terminations	ea	8	$11	$88	161 520 1780
9	Grounding	ea	1	$375	$375	161 810 1800
	Total				**$3,000**	

=

To: MIKE SYKES	Date 10/22	parratt wolff inc 315/437-1429 FAX 315/437-1770
Co.	# of pgs. 2	
Dept.	From JOEL PARRATT	
Fax No. 518-783-8397	Phone #	Fax #

parratt wolff inc

October 22, 2001

Mr. Mike Sykes
IT Corporation
13 British American Boulevard
Latham, New York 12110

Re: Monitoring Well Installations
NHP Site
Farmingdale, New York
Proposal No. 1242

Dear Mr. Sykes:

Attached for your review is our cost estimate for the above-referenced project. We are proposing to use a tractor-mounted direct-push unit for the project that is approximately 12 feet long, 5 feet wide and 8 feet high when the mast is down (13 feet high when drilling).

If requested, Parratt-Wolff will call the Underground Facilities Protective Organization (UFPO) to clear utilities. To do this we will require a detailed site plan and location map. Otherwise we will assume that you or your client will take this responsibility. Please note that the mark-out of private services and feeds is the responsibility of the property owner.

Please feel free to call me if you should have any questions.

Very truly yours,

PARRATT-WOLFF, INC.

Joel V. Parratt
Project Manager
JVP
enc:

Monitoring Well Installations
NHP Site
Farmingdale, New York
October 22, 2001
Proposal No. 1242

Item	Estimated Quantity	Unit	Unit Price	Unit Total
Six 1-inch PVC wells installed to 25 feet below ground surface				
Mobilization and demobilization - tractor mounted drill rig	1	lump sum	$1,200.00	$1,200.00
Drill rig and operator	2	day	$1,300.00	$2,600.00
1-inch PVC wells installed	6	each	$75.00	$450.00
Estimated total				$4,250.00

Weekend Rate $350 Adder

Parratt-Wolff, Inc.
P.O. Box 56, 5879 Fisher Road
East Syracuse, New York 13057
(800) 782-7260

APPENDIX B

SVE PILOT TEST
STANDARD FIELD TEST PROCEDURE

SOIL VAPOR EXTRACTION PILOT TEST
STANDARD FIELD TEST PROCEDURE

The SVE field test will be performed to obtain data for use in evaluating the effectiveness of soil vapor extraction for removing volatile organic compounds (VOCs) adsorbed to the vadose zone soil. The SVE evaluation will be designed to obtain the following specific design information:

- The estimated areas of influence and induced vacuums that an SVE system may achieve at the site under optimum operating conditions;
- Determination of the air flow requirements to effectively influence the target areas of the site; and
- The recommended operating parameters for the system.

Soil vapor will extracted during the pilot test using a minimum 1.5 hp regenerative vacuum blower. A valve on the blower, open to the atmosphere, will be used to vary the flow rate at which soil vapor will be extracted from each SVE well. An increase in the amount of ambient air introduced into the blower will decrease the vacuum applied to the well head and thereby will decrease the soil vapor extraction rate.

Soil vapor will be extracted at a minimum of three different flow rates during the testing. Air flow and applied vacuum will be measured at the blower. Induced vacuum will also be measured at the surrounding monitoring wells.

A photoionization detector (PID) will be used to qualitatively measure the concentration of VOCs in the soil vapor extracted from each extraction well, at each flowrate, during the individual SVE well testing. An air bag sample will be collected in a Tedlar bag from the effluent from each well. The sample will be analyzed for EPA Method TO14.

Measurements of soil vapor extraction rate, induced vacuum, and soil vapor concentrations will be summarized in a table.

SOIL VAPOR EXTRACTION PILOT TEST
STANDARD DATA REVIEW & ANALYSIS PROCEDURE

The results of the soil vapor extraction pilot test will be evaluated utilizing a computer model developed by IT Corporation's predecessor, Groundwater Technology, Inc. The model takes into account soil vapor pressure, temperature of the vapor, vertical depth of the unsaturated zone, standard rates of biodegradation, and the soil characteristics, as determined from the pilot test data. The SVE radius of influence (ROI) modeling will be performed based on the following assumptions:

- The soil is homogeneous throughout the area surrounding the extraction well;
- The soil temperature is 50 degrees F; and
- No short circuiting to the surface or preferred pathway of airflow occurred within the test area.

Effective radii of influence (ROI) will be determined for each of the SVE wells tested using a specified time of clean-up, removal goal and contaminant type.

FIGURES

IMAGE	X-REF	OFFICE	DRAWING NUMBER
---	---	ALBANY, NY	802901B33B

MW-8
MW-7
MW-6
A
B
ELECTRICAL
MW-1
NO ACCESS
APPROXIMATE LOCATION OF SVE PILOT TEST EQUIPMENT
VP-2
C
E
VAPOR EXTRACTION POINT
F
G
VP-1
VP-3
DIRECTION OF GROUNDWATER FLOW
VENT
RAMP
VP-4
RAMP
APPROXIMATE LOCATIONS OF VAPOR MONITORING POINTS (LOCATIONS WILL CHANGE BASED ON SITE CONDITIONS AND ACCESS)
VP-5
MW-9
ES
MW-4A
VENT
VP-6
MW-5
VENT
FLAMMABLE STORAGE AREA
RAMP
MW-3A
MW-10
MW-2A
ADAMS BLVD.
VENT
VENT
H
FILL PIPES (3)

SCALE
0 50 100 FEET

LEGEND:

- TRAIN TRACK
- VAPOR MONITORING POINT
- DEEP MONITORING WELL (>30')
- SHALLOW MONITORING WELL (<30')
- MANHOLE OR ACCESS POINT
- FENCE LINE
- ES — ELECTRIC LINE
- GAS LINE
- S — SANITARY SEWER
- PROPERTY LINE
- INTERIOR BUILDING WALL (DIVIDES WAREHOUSE)

REV	DATE	BY	CHK'D	APR'VD	DESCRIPTION/ISSUE
B	SEP-01	MPS			REVISED SUBMITTAL
A	JUL-01	MPS			DRAFT SUBMITTAL

IT CORPORATION

NATIONAL HEATSET PRINTING
BABYLON, NEW YORK

FIGURE 1-1
SOIL VAPOR EXTRACTION PILOT TEST LOCATION

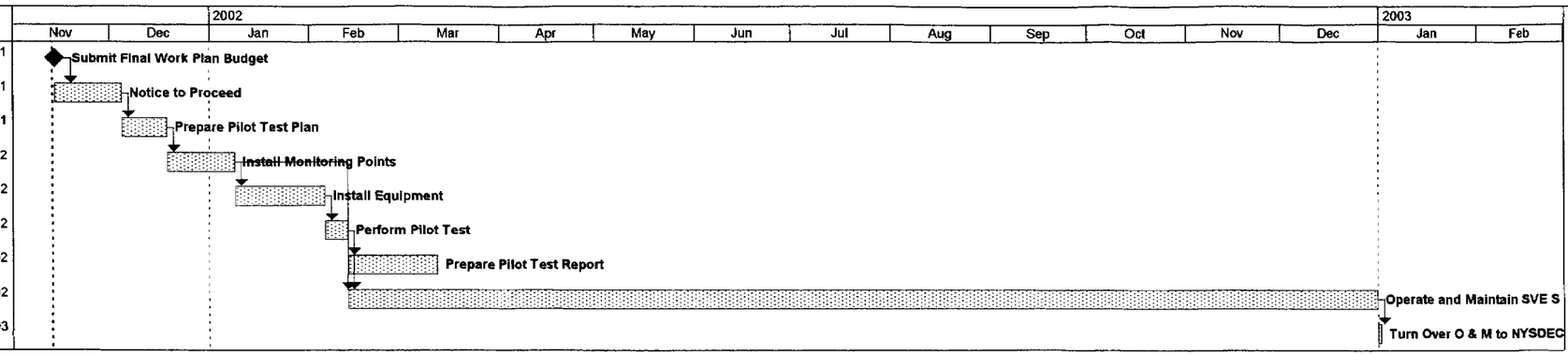
DESIGNED BY			CHECKED BY	
DRAWN BY	C. A. / HMD	7/24/01	APPROVED BY	

SCALE:	DRAWING NO.	SHEET NO.	REVISION NO.
AS SHOWN	802901B33		B

PLOT DATE: 09/04/01
FORMAT REVISION 3/25/99

Figure 4-1
Project Schedule

ID	Task Name	Duration	Start	Finish
1	Submit Final Work Plan Budget	0 days	Wed 11/14/01	Wed 11/14/01
2	Notice to Proceed	15 days	Wed 11/14/01	Tue 12/04/01
3	Prepare Pilot Test Plan	10 days	Wed 12/05/01	Tue 12/18/01
4	Install Monitoring Points	15 days	Wed 12/19/01	Tue 01/08/02
5	Install Equipment	20 days	Wed 01/09/02	Tue 02/05/02
6	Perform Pilot Test	5 days	Wed 02/06/02	Tue 02/12/02
7	Prepare Pilot Test Report	20 days	Wed 02/13/02	Tue 03/12/02
8	Operate and Maintain SVE System	230 days	Wed 02/13/02	Tue 12/31/02
9	Turn Over O & M to NYSDEC	1 day	Wed 01/01/03	Wed 01/01/03



Project: Project
Date: Tue 11/13/01

Task | Progress | Summary | Rolled Up Split | Rolled Up Progress | Project Summary
Split | Milestone | Rolled Up Task | Rolled Up Milestone | External Tasks