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28 October 1999  
File No. 650-423

Mr. Joseph Jones  
NYS Department of Environmental Conservation  
Division of Environmental Remediation  
50 Wolf Road  
Albany, NY 12233-7010

**Re: NCIA Off-site Groundwater RI/FS  
NYSDEC Site # 1-30-043, Town of North Hempstead, Nassau County  
WA # D002676-42  
Workplan and Budget Amendment #1- Final Draft**

Dear Mr. Jones:

Lawler, Matusky & Skelly Engineers LLP (LMS) is pleased to provide you with the final draft amended workplan and budget for the above referenced assignment. This final draft is based on comments received by LMS on the draft amendment dated 21 October 1999. The Phase I FS and the preliminary RI data for this site have identified a number of data gaps which will receive further evaluation prior to completion of the RI/FS. The three new tasks for this assignment include:

- Task 6- Phase II RI
- Task 7- Exposure Assessment
- Task 8- Phase II FS

In our letter of 9 September 1999 discussing our recommendations for additional work at the NCIA the Phase II FS was presented as Task 9. Since Task 8 (groundwater modeling) has been dropped at NYSDEC's request, the Phase II FS work effort is now listed as Task 8 and there will be no Task 9. A full description of the scope of work for each of the new tasks is found in the amended workplan. In addition to the three new tasks, this amendment also serves to provide funding for the previously approved Task 10 which was originally funded through a re-budget of funds from Task 2 through 5. The scope of work for Task 10 includes the collection of soil and groundwater samples at four sites and a GPR survey at 95 Hopper Street. A full description of the scope of work for Task 10 is also found in the amended workplan.

LMS had recommended completing further tests to characterize the aquifer (pump tests) and an in-well air stripping pilot test at the site to assist in the detailed evaluation of several of the alternatives. Without the

information provided by the pump and pilot tests, the placement and costing of the pump and treat and in-well air stripping alternatives will be done with a large degree of uncertainty. LMS had also recommended completing groundwater flow and contaminant transport modeling for this site. Without the fixed basis of a groundwater flow model for the detailed evaluation of alternatives it will be difficult to accurately predict what effects the individual remedial alternatives will have on each other. Since these items were not included within our final scope of work for this amendment LMS assumes that NYSDEC recognizes the resulting uncertainty in the remedial costs and that these uncertainties are acceptable for completing the FS. If required by the NYSDEC another consultant could complete these items as part of the remedial design, it is unlikely that LMS would still be under contract by the time the remedial design is issued to a standby consultant. The final scope of work also does not include a human health risk assessment, although LMS recommended that a full human health risk assessment was appropriate for this site the work effort has been reduced to a limited update of the existing exposure assessment prepared under Task 5.

### **Schedule**

Assuming LMS receives approval of this amendment by early December 1999 the field sampling will be well under way or completed by the end of January 2000, with the exception of the second round of sampling for the Bowling Green Early warning wells. We will require a minimum of 4 week to prepare for the hydropunch sampling since this activity will be conducted within a residential area and past experience has shown 4 weeks are needed to receive the necessary approvals. A breakdown of the schedule and the deliverables for the new tasks is included in the workplan. In developing the schedule we have assumed that LMS' contract will be extended beyond March of 2000 into the fall of 2000. If this fails to be the case we would recommend an accelerated schedule (quick turn around laboratory sampling analysis, decreased NYSDEC review periods) to allow for completion of this assignment through Subtask 8.2- Draft Phase II FS.

### **Estimated Costs**

LMS has estimated that the total budget amendment for this assignment will be approximately \$203,976 which includes \$81,364 for Task 6, \$4016 for Task 7, \$63,320 for Task 8, and \$55,276 for Task 10. A breakdown of these costs is found on the attached 2.11 schedule of tables for your review.

Please contact Michael Lehtinen or me if you have any questions regarding this amendment or our current RI/FS activities for the NCIA off-site groundwater.

Sincerely,



Edward Maikish, P.E.  
Program Manager

## **New Cassel Industrial Area Offsite Groundwater RI/FS**

**WA# D002676-42**

**Workplan Amendment #1**

**October 28, 1999**

### **CHAPTER 1**

#### **1.1 INTRODUCTION**

Lawler, Matusky & Skelly Engineers (LMS) has been given the work assignment of conducting a Remedial Investigation/Feasibility Study (RI/FS) for the groundwater contamination at the New Cassel Industrial Area (NYSDEC Site No. 1-30-043), Town of North Hempstead, Nassau County under terms of the State Superfund Standby Contract. The groundwater RI/FS encompasses all on-site and off-site locations at the industrial area where impacts to the groundwater related to past disposal practices at this site have been found. The original assignment for this RI/FS included Tasks 1 to 5. NYSDEC has requested that LMS complete new Tasks 6 to 8 to conduct further investigations and finalize the Phase II FS for this site. In addition to Tasks 6 to 8 NYSDEC had previously authorized LMS to complete further investigations at three sites within the NCIA under Task 10. These investigations were conducted using funds re-budgeted from the Tasks 1 to 5. This amendment also serves to provide the funds for Task 10 that were re-budgeted from the other tasks.

The following sections outline the scope of work for Tasks 6 to 8 and Task 10.

#### **1.2 TASK 6 – PHASE II RI**

##### **1.2.1 Introduction**

The first phase of sample collection, analysis, and assessment for the NCIA off-site groundwater identified a number of data gaps. To provide data to fill some of these data gaps and to provide additional data on the groundwater quality for the detailed analysis of alternatives additional sampling and analysis will be conducted under the new Task 6. The sampling and analysis will include an additional round of monitoring well sampling, two additional rounds of sampling the Bowling Green early warning wells, and hydropunch groundwater sampling at 4 locations.

### **1.2.2 Subtask 6.1 – Monitoring Well Sampling**

An additional monitoring well sampling round on 20 of the 40 well monitoring network will be conducted in January 2000. In addition to the groundwater samples for VOC analysis, a number of field and laboratory analyses on the water samples will also be conducted to evaluate the potential for natural attenuation of the contamination. This information is needed to allow for the development and analysis of the monitored natural attenuation alternative. The field analyses that will be conducted by LMS include the following parameters: pH, oxidation-reduction potential (eH), dissolved oxygen (DO), temperature, conductivity, iron (II) and hydrogen. The additional base laboratory analysis required to evaluate the potential for natural attenuation include alkalinity, arsenic, chloride, manganese, methane, ethane, ethene, nitrate, sulfate, and total organic carbon.

For cost estimating purposes we have assumed that LMS will complete the field analyses requirements and H2M, the NYSDEC contract laboratory, will complete the base laboratory analysis. Once the analysis is completed the NYSDEC will perform data validation on each of the groundwater samples.

### **1.2.3 Subtask 6.2 – Bowling Green Early Warning Well Sampling**

As part of the on-going monitoring of the Bowling Green early warning wells LMS will complete two additional rounds of sampling on the four early warning wells. The first sampling event will be in January 2000 followed by the final sampling event by LMS in May 2000. The samples will be submitted to the NYSDEC contract laboratory (H2M) for analysis of VOC's. Continued monitoring of the two deep early warning wells is critical since they provide a means of measuring the contaminant levels in the actual water producing zone of the aquifer which supplies the two Bowling Green production wells. Once the analysis is completed the NYSDEC will perform data validation on each of the groundwater samples.

### **1.2.4 Subtask 6.3 – Hydropunch Groundwater Sampling**

The RI data indicates that a significant data gap exists in the groundwater quality database for groundwater sampling data between 80 and 150 feet below the ground surface. As part of the Phase II RI field activities, hydropunch groundwater sampling will be conducted at four separate locations within the individual plume areas to develop a better understanding of the contaminant levels with depth. The locations for the hydropunch groundwater samples will also be determined as part of this subtask; at least one of the hydropunch locations will be directly downgradient of the Bowling Green production wells. The remainder of the hydropunch sampling locations will likely be within the residential areas south of the NCIA

and LMS will obtain all necessary permits and approvals for this drilling. At each location, groundwater samples will be collected from the watertable to 150 feet, at 10 foot sampling intervals. Each of the groundwater samples will be submitted to the NYSDEC contract laboratory (H2M) for analysis of VOCs. The subcontractors utilized previously by LMS during Task 4 of this assignment will also be used for this subtask. The subcontractors include Delta Well & Pump for drilling services and Waste Management for soil cuttings management and disposal.

#### **1.2.5 Subtask 6.4 - Task Management**

The administrative costs associated with the task are included under this subtask. This includes reviewing subcontractor invoices, preparation of the cost control report (CCR), preparation of the contractor application for payment (CAP), and a monthly progress report.

### **1.3 TASK 7 - EXPOSURE ASSESSMENT**

#### **1.3.1 Subtask 7.1 – Data Assessment**

This subtask will include assessment and incorporation of the newly collected data into the exposure pathway analysis. The results of the exposure assessment will be summarized within the FS report. As instructed by the NYSDEC, a full public health risk assessment for the NCIA offsite groundwater will not be completed.

#### **1.3.3 Subtask 7.2 – Task Management**

Administrative costs associated with the task are included under this subtask. This includes preparation of the CCR, preparation of the CAP, and the monthly progress report.

### **1.4 TASK 8 –PHASE II - FEASIBILITY STUDY**

#### **1.4.1 Introduction**

Task 8 will be used to prepare the Phase II FS and the final RI/FS report for the NCIA off-site groundwater. This task was not included in the original work assignment at the request of the NYSDEC, as it was not known what level of effort would be required to complete the FS. The scoping for the Phase II FS (i.e., detailed evaluation of the final set of alternatives) was performed under Subtask 5.4 and was based on the Draft Phase I FS report submitted to the NYSDEC in September 1999.

#### **1.4.2 Subtask 8.1 – Detailed Analysis of Alternatives**

Based on any comments the NYSDEC may have on the remedial alternatives developed during the Phase I FS a final set of alternatives will be selected for detailed analysis. It is anticipated that the final set of remedial alternatives will specifically address the off-site groundwater contamination. The final list of alternatives will assume that some type of active groundwater remediation will occur in the vicinity of Old Country Road and that source control measures will be implemented at the individual Class 2 sites that are responsible for the on-site (north of Old Country Road) groundwater contamination. Since specific details on the source control measures and their effectiveness are not available, assumptions will be made regarding the placement and effectiveness of these systems. If further details on the source control efforts are finalized prior to the completion of this Phase II FS, the details will be incorporated into the detailed analysis of alternatives during a later subtask (see Subtask 8.3). In order to estimate the level of effort for this subtask we have assumed 5 alternatives will receive detailed analysis.

The final list of remedial alternatives will be defined and evaluated to determine the most effective option to meet the remedial action objectives at the site established by NYSDEC. The detailed analysis of alternatives will consider the following NYSDEC criteria: compliance with SCGs; overall protection of human health and the environment; short term impacts and effectiveness; long term effectiveness and permanence; reduction in toxicity, mobility, and volume; implementability; cost; and community acceptance. Since the impacts from the NCIA extends off-site into fully developed commercial and residential areas, special emphasis will be placed on the implementability and cost of the final alternatives.

#### **1.4.3 Subtask 8.2 – Draft Phase II FS**

A draft Phase II FS report will be prepared upon completion of the detailed analysis of alternatives. The report will include a description of the alternatives evaluated, the results of the screening evaluation (Phase I FS), the detailed analysis of each of the alternatives, and a summary of the estimated costs for each of the alternatives. For costing purposes LMS assumes six copies of the draft report will be submitted to the NYSDEC. It is anticipated that only minor revisions to the draft Phase II FS will be required based on comments received on the draft report. As requested by the NYSDEC LMS has not included any technical support during the development of the proposed remedial action plan (PRAP). Based on our previous experience support services are often needed for final revisions and fine-tuning of individual remedial alternatives and the costs, LMS had originally recommended completing these activities as subtask 8.3.

#### **1.4.5 Subtask 8.3 – Final RI/FS Report**

The final RI/FS report will be prepared under this subtask. This will include incorporating any minor comments received on the draft versions of the RI and FS report, coordinating the production of the report, distributing the report, and public participation activities (preparation of slides, and electronic versions of text and figures as requested) for one public meeting. For costing purposes LMS has assumed that 21 copies of the final report will be submitted to the NYSDEC.

#### **1.4.4 Subtask 8.4 - Task Management**

The administrative costs associated with the task are included under this subtask. This includes reviewing subcontractor invoices, preparation of the CCR, preparation of the CAP, and a monthly progress report.

### **1.5 TASK 10 - SOIL AND GROUNDWATER SAMPLING AT VARIOUS “P” SITES**

#### **1.5.1 Introduction**

This additional field task includes completing soil and groundwater sampling at three potential or “P” sites within the NCIA. The soil and groundwater sampling will be conducted using hollow stem auger drilling methods with split spoon sampling to collect soil samples and hydropunch sampling to collect the groundwater samples. All soil cuttings from the drilling operations will be containerized on-site for later disposal. Should these soils require disposal as contaminated or hazardous waste this task will be amended to account for the additional higher disposal costs. All soil and groundwater samples collected during Task 10 will be submitted to the NYSDEC contract laboratory (H2M) for VOC and SVOC analysis as specified by the NYSDEC. In addition to the soil and groundwater sampling LMS will complete a ground penetrating radar survey (GPR) at 95 Hopper Street. All subcontractors for use on this task have been pre-approved to complete the work based on our documentation of their costs, which was submitted to the NYSDEC on 2 September 1999. Task 10 is strictly a field sampling effort and the deliverables for this task will include a copy of the field notes and logs, a detailed summary of the field activities and an interpretive report of these activities will not be prepared by LMS.

#### **1.5.2 Subtask 10.1 – 33-35 Sylvester Street**

The sampling effort at this site includes collection of soil and groundwater samples at three locations to the rear (west side) of the property. Soil samples will be collected at 5-foot

intervals from the ground surface to the watertable. The soil samples will be followed by groundwater sampling at 65 and 80 feet below the ground surface at the same locations using the hydropunch sampling equipment. All soil and groundwater samples will be submitted to the NYSDEC contract laboratory for analysis of VOCs and SVOCs.

#### **1.5.3 Subtask 10.2 – 49 Sylvester Street**

The sampling effort at this site includes collection of soil samples at three locations and groundwater samples at two locations. Soil samples will be collected at 3-foot intervals from the ground surface to the watertable at the three soil sampling locations. The groundwater samples will be collected at two locations, one of these locations corresponds to one of the soil sampling locations; the other location is an upgradient point located along Sylvester Street. The groundwater samples will be collected using the hydropunch sampling equipment at 65 and 80 feet below the ground surface. All soil and groundwater samples will be submitted to the NYSDEC contract laboratory for analysis of VOCs and SVOCs.

#### **1.5.4 Subtask 10.3 – 542 Main Street**

Soil and groundwater samples will be collected from a single location at this site. The soil samples will be collected in 3-foot intervals from the ground surface to the watertable and the groundwater samples will be collected at 65 and feet below the ground surface. Each of the soil and groundwater samples will be submitted to the NYSDEC contract laboratory for analysis of VOCs and SVOCs.

#### **1.5.5 Subtask 10.4 – 95 Hopper Street**

Several areas on this property were not surveyed with the GPR equipment during the original PSA conducted for the NCIA due to access problems on this property. A one day GPR survey will be conducted to locate any possible anomalies at this site which may indicate the presence of tanks, abandoned leach pools, drywells, or piping. If any anomalies are found, the soil and groundwater will be sampled near the anomalies. Soil sampling will be conducted in 3-foot intervals to the watertable followed by groundwater samples at 65 and 80 feet below the ground surface. Each of the soil and groundwater samples will be submitted to the NYSDEC contract laboratory for analysis of VOCs and SVOCs.

#### **1.5.6 Subtask 10.5 - Task Management**

The administrative costs associated with the task are included under this subtask. This includes reviewing subcontractor invoices, preparation of the CCR, preparation of the CAP, and the monthly progress reports.

## CHAPTER 2

### 2.1 PROJECT STAFFING PLAN

LMS, as prime contractor, will be responsible for overall project technical direction and administration. Subcontractors will be utilized as necessary to complete certain tasks. The major subcontractors proposed for our project team are:

- Delta Well & Pump – drilling (Tasks 4, 6, and 10)
- Waste Management of Long Island- drill cutting disposal (Task 10)
- Subsurface Informational Surveys – GPR (Task 10)
- YEC, Inc.,- surveying services (Task 4)
- Corporate Reproduction- report production

Other minor subcontractors will be brought on board as required. The proposed project organization for the new tasks will remain the same as the original tasks.

### 2.2 PROJECT SCHEDULE

LMS' proposed revised project schedule for the New Cassel Groundwater RI/FS is presented on Table 2-1. The RI/FS field schedule for the new tasks, which is slated to start on 10 January 2000, assumes that we receive NYSDEC approval on this amendment on 1 December 1999. If this approval is delayed, the field schedule and deliverables will be similarly delayed.

### 2.3 PROJECT DELIVERABLES

A listing of the project deliverables for the New Cassel Groundwater RI/FS is presented on Table 2-2. These deliverables are based on meeting the schedule listed on Table 2-1.

### 2.4 PROJECT SUBCONSULTANTS AND SUBCONTRACTORS

YEC, Inc. will provide professional surveying services as required. They are an approved MBE with established salary, overhead, and fee rates approved by the NYSDEC on other Standby contract assignments.

Delta Well & Pump are one of LMS' stand-by drillers, they provided the low bid for the original tasks of this assignment. Waste Management of Long Island provided the low bid for drill cutting disposal for the original tasks of this assignment. Corporate Reproductions is an MBE whose services are less than \$5,000 to reproduce the final RI/FS report. Documentation that their estimate is reasonable was presented in the original workplan. Based

Table 2-1

**New Cassel Groundwater RI/FS Site #1-30-143**  
**Work Assignment #D002676-42.1**  
**REVISED PROJECT SCHEDULE**

<u>Task</u>	<u>Subtask</u>	<u>Work Task Date</u>	<u>Due Date or Date</u>
3		GROUNDWATER INVESTIGATION REPORT	
	3.3	Draft RI Report	11/30/1999*
6		PHASE II RI	
	6.1	Monitoring Well Sampling	1/10/2000-1/18/2000
	6.2	Bowling Green Early Warning Well Sampling	
		Sampling Round- Task 6- 1	1/19/2000-1/20/2000
		Sampling Round- Task 6- 2	5/22/2000-5/23/2000
	6.3	Hydropunch Sampling	1/17/2000-1/31/2000
7		EXPOSURE ASSESSMENT	
	7.1	Data Assessment	3/1/2000-3/20/2000
8		PHASE II - FEASIBILITY STUDY	
	8.1	Detailed Analysis of Alternatives	2/1/2000-4/7/2000
	8.2	Draft Phase II FS	4/7/2000
	8.3	Final RI/FS Report	5/28/2000
10		SOIL AND GROUNDWATER SAMPLING AT VARIOUS "P" SITES	
	10.1	33-35 Sylvester Street	10/7/1999-10/20/1999
	10.2	49 Sylvester Street	10/7/1999-10/20/1999
	10.3	542 Main Street	10/7/1999-10/20/1999
	10.4	95 Hopper Street	10/7/1999-10/20/1999

\*- Revised due date

Table 2-2

**New Cassel Groundwater RI/FS Site #1-30-143  
Work Assignment #D002676-42.1  
DELIVERABLES**

<b>Task</b>	<b>Subtask</b>	<b>Deliverable</b>	<b>Proposed Due Date</b>	<b>Copies</b>
3	3.3	Draft RI Data Report	11/30/1999	6
8	8.2	Draft Phase II FS	4/7/2000	6
8	8.4	Final RI/FS	5/28/2000	21
10	10.1 to 10.5	"P" Sites Field Sampling Summary	11/19/1999	4

on their original low bid these contractors will be retained for work under the new tasks. Subsurface Information Surveys is the only new contractor required to complete the RI/FS. They were previously approved by the NYSDEC for use on Task 10 based on a low bid they provided for another identical assignment.

## **2.5 MBE/WBE UTILIZATION PLAN**

This document outlines LMS' MBE/WBE utilization plan as required by the New York State Superfund Standby Contract. The purpose of the plan is to document our intent to comply with the regulations under 9NYCRR Part 543 entitled "Requirements and Procedures Regarding Business Participation Opportunities for Minorities and Women on State Contracts." LMS will make every effort to meet the goals established by those regulations, i.e., 15% MBE participation and 5% WBE participation, through implementation of our proposed utilization plan as described below.

LMS is committed to equal opportunity employment, with corporate involvement meeting or exceeding the state regulations referenced in this contract. Evidence of this is provided by the fact that, as a whole, LMS currently employs 8% minorities and 28% women. To assure full implementation of the equal employment policy, we will take steps to ensure that:

- a. Persons are recruited, hired, assigned, and promoted without regard to race, religion, marital status, color, sexual orientation, national origin, sex, veteran's status, age, or non-job-related disability of any kind.
- b. All other personnel actions, such as compensation, benefits, transfers, layoffs and recall from layoffs, access to training, education, tuition assistance and social recreation programs are administered without regard to race, marital status, religion, color, sexual orientation, national origin, sex, veteran's status, age, or non-job-related disability of any kind.

To date, LMS has made a good-faith effort to obtain MBE/WBE subcontractors for completion of the New Cassel Groundwater RI/FS project. The MBE and WBE firms that will be utilized as subcontractors for this project are listed below. A number of other MBE/WBE firms were identified and contacted to provide bids on services to be conducted as part of this RI/FS; however, a number of factors precluded the use of some of these firms.

### **MBE Utilization:**

- YEC, Inc.: This MBE firm was selected to provide professional surveying

services during the RI. The MBE utilization from the above subcontractor is approximately \$4224.

- Corporate Reproductions, Inc.: This MBE firm was selected to provide printing services for reproduction of the final RI and final FS reports. The MBE utilization from the above subcontractor is approximately \$4920.

The MBE contribution resulting from the utilization of the above subcontractors is approximately \$9144 (2.1%).

#### WBE Utilization:

- Delta Well & Pump: This WBE firm was selected to provide drilling services for the RI/FS investigation. The WBE utilization from the above subcontractor is approximately \$89767.

The WBE contribution resulting from the utilization of the above subcontractors is approximately \$89767 (21.0%).

Depending on the project administration of this work assignment, activities that are not currently included in LMS' scope of work may also represent potential MBE/WBE subcontracting opportunities.

SCHEDULE 2.11 (a)  
**SUMMARY OF WORK ASSIGNMENT PRICE**  
 Work Assignment Number D002676-42.1  
 NCIA Groundwater RI/FS

LINE ITEM	AMOUNT (\$)
1. Direct Salary Costs (Schedules 2.10 (a) and 2.11 (b))	97,728.51
2. Indirect Costs (Schedule (2.10 (g))	151,479.23
3. Direct Non-Salary Costs (Schedules 2.10 (d,e,f) and 2.11 (c,d)	43,676.69
<b>Subcontract Costs:</b>	
<b>Name of Subcontractor</b>	<b>Services to be Performed</b>
1. YEC	Surveying
4. Total Cost-Plus-Fixed Fee Subcontracts	4,224.22
<b>Unit Price Subcontracts (Schedule 2.10 (f) and 2.11 (f))</b>	
<b>Name of Subcontractor</b>	<b>Services to be Performed</b>
1. Corporate Reproductions	Report Reproductions
2. Delta Well and Pump	Monitoring well installation
3. Waste Management	Drill Cuttings Disposal
4. Subsurface Investigations	GPR Survey
5. Total Unit Price Subcontracts	103,423.00
6. Subcontract Management Fee (Schedule 2.11[f])	4,488.35
7. Total Subcontract Costs (lines 4 + 5)	107,647.22
8. Fixed Fee (Schedule 2.10 (h))	24,920.84
9. Total Work Assignment Price (lines 1 + 2 + 3 + 6 + 7)	429,940.84

**SCHEDULE 2.11(b)**  
**LABOR COST SUMMARY**  
 Work Assignment Number D002676-42.1  
 NCIA Groundwater RI/FS

LABOR CATEGORY	IX	VIII	VII	VI	V	IV	III	II	I	WP	TOTAL	TOTAL
AVERAGE SALARY RATE (1999)	\$63.86	\$49.09	\$43.07	\$40.35	\$35.99	\$28.15	\$25.21	\$24.51	\$18.59	\$16.55		
Task 1	3	0	14	0	0	44	9	33	33	6	142	3,781.65
Task 2	5	0	38	0	24	56	82	104	782	21	1,112	23,897.31
Task 3	4	0	35	0	0	168	84	64	276	18	649	15,575.18
Task 4	1	0	15	0	0	9	54	42	89	9	219	5,157.48
Task 5	2	0	30	0	0	24	96	220	114	22	508	12,359.21
Task 6	3	0	3	8	8	68	4	24	316	24	458	9,806.43
Task 7	1	0	3	0	1	29	1	8	0	3	46	1,316.35
Task 8	5	4	12	12	6	340	72	28	380	36	895	21,465.04
Task 10	1	0	5	0	0	23	2	4	171	7	213	4,369.86
<b>TOTAL HOURS:</b>	<b>24</b>	<b>4</b>	<b>155</b>	<b>20</b>	<b>39</b>	<b>761</b>	<b>404</b>	<b>527</b>	<b>2,161</b>	<b>146</b>	<b>4,241</b>	
<b>Total Direct Labor Costs</b>	<b>1,532.64</b>	<b>196.36</b>	<b>6,675.85</b>	<b>807.00</b>	<b>1,403.61</b>	<b>21,422.15</b>	<b>10,184.84</b>	<b>12,916.77</b>	<b>40,172.99</b>	<b>2,416.30</b>	<b>97,728.51</b>	<b>97,728.510</b>

INDIRECT LABOR COSTS: 151,479.23

SUBTOTAL: 249,207.74

FIXED FEE: 24,920.84

**TOTAL BUDGETED LABOR COSTS: 274,128.58**

ENGINEER/CONTRACT No.: Lawler, Matusky & Skelly Engineers LLP  
 PROJECT NAME: NCIA Groundwater RI/FS  
 WORK ASSIGNMENT No.: 002676-42.1

DATE PREPARED: 26 Oct 99

**SCHEDULE 2.11(b-1)**  
**DIRECT ADMINISTRATIVE LABOR HOURS BUDGETED**

NSPE LABOR CLASSIFICATION	IX	VIII	VII	VI	V	IV	III	II	I	WP	TOTAL No. OF DIRECT ADMINISTRATIVE LABOR HOURS BUDGETED
Task 1	0.0	0.0	1.0	0.0	0.0	0.0	1.0	0.0	16.0	0.0	18.0
Task 2	1.0	0.0	4.0	0.0	0.0	0.0	8.0	0.0	6.0	2.0	21.0
Task 3	0.5	0.0	2.0	0.0	0.0	0.0	2.0	0.0	4.0	4.0	12.5
Task 4	0.0	0.0	2.0	0.0	0.0	0.0	2.0	0.0	2.0	1.0	7.0
Task 5	0.5	0.0	6.0	0.0	0.0	0.0	6.0	0.0	4.0	2.0	18.5
Task 6	1.0	0.0	3.0	0.0	0.0	4.0	4.0	0.0	2.0	0.0	14.0
Task 7	0.0	0.0	1.0	0.0	0.0	1.0	0.0	0.0	0.0	2.0	4.0
Task 8	0.0	4.0	0.0	0.0	0.0	0.0	0.0	10.0	10.0	4.0	28.0
Task 10	1.0	0.0	1.0	0.0	0.0	1.0	0.0	0.0	1.0	2.0	6.0
<b>TOTAL HOURS:</b>	<b>3.0</b>	<b>4.0</b>	<b>19.0</b>	<b>0.0</b>	<b>0.0</b>	<b>5.0</b>	<b>23.0</b>	<b>10.0</b>	<b>44.0</b>	<b>15.0</b>	<b>129.0</b>

Contract/Project administrative hours would include but not necessarily be limited to the following activities:

1. Work Plan Development
  - Conflict of Interest Check
  - Develop of budget schedules and supporting documentation
2. Review work assignment (WA) progress
  - Conduct progress reviews
  - Prepare monthly project report
  - Update WA progress schedule
  - Prepare monthly M/WBE Utilization Report
3. Review work assignment costs
  - Prepare monthly cost control report
  - Cost control reviews

4. CAP Preparation
  - Oversee and prepare monthly CAP
  - Respond to payment issues/disallowances
  - NSPE list updates
  - Equipment Inventory
5. Manage subcontracts
6. Implement and manage program management and staffing plans
7. Conduct Health and Safety Reviews
8. Word processing and graphic artists
9. Report editing

Contract/Project administration hours would NOT include activities such as:

1. QA/Qc reviews
2. Technical oversight by management
3. Develop subcontracts
4. Work plan development
5. Review of deliverables

**SCHEDULE 2.11(c) - DIRECT NON-SALARY COSTS**  
**Work Assignment Number D002676-42.1**  
**NCIA Groundwater RI/FS**

ITEM	MAXIMUM REIMBURSEMENT RATE (\$)	UNIT	ESTIMATED NUMBER OF UNITS	TOTAL ESTIMATED COST (\$)
<b>A. Material Costs:</b>				
Telephone	1.00	(at cost)	1,029	1,029.00
Reproduction	0.07	(per page)	13,650	955.50
General PC usage	1.50	(per hr)	614	921.00
Auto CADD	15.00	(per hr)	52	780.00
Fax	1.00	(per page)	726	726.00
Overnight shipping	1.00	(at cost)	3,000	3,000.00
Photography	1.00	(at cost)	20	20.00
Disposable Field Items:				
Nylon Rope	0.20	(per ft)	17,200	3,440.00
½" ID tubing	0.30	(per ft)	17,200	5,160.00
Decon Chemicals	1.00	(at cost)	130	130.00
Decon D.I. Water	0.12	(per gal.)	380	45.60
Sample bottles	42.95	(per case)	12	515.40
Ice for samples	1.00	(at cost)	210	210.00
Stakes/Flagging	3.75	(at cost)	8	30.00
Disposable Bailer	11.50	(ea)	137	1,575.50
Road Opening Permit	1.00	(at cost)	150	150.00
Repair of NYSDEC Meters	125.00	(lump sum)	2	250.00
<b>SUBTOTAL:</b>				<b>18,938.00</b>
<b>B. Travel Costs:</b>				
Truck/van rental	31.34	(per day)	83	2,601.22
Truck/van mileage	0.133	(per mile)	5,340	710.22
Personal mileage	0.33	(per mile)	4,570	1,485.25
Per diem	108.00	(per day)	120	12,960.00
Tolls	1.00	(at cost)	655	655.00
Parking	1.00	(at cost)	10	10.00
<b>SUBTOTAL:</b>				<b>18,421.69</b>
<b>C. Equipment Costs:</b>				
Personal Protective Equipment:				
Level D	12.00	(per day)	103	1,236.00
2" Submersible Pump (110 V)	15.00	(per day)	41	615.00
Generators - Honda (6,500 watt)	51.00	(per day)	55	2,805.00
PID - HNu (P1-101)	23.00	(per day)	21	483.00
DO/temp. meter - YEI (50' + 100')	23.00	(per day)	34	782.00
pH meter - CP (pH pen)	4.00	(per day)	43	172.00
Turbidity meter - Hoch	14.00	(per day)	16	224.00
<b>SUBTOTAL:</b>				<b>6,317.00</b>
<b>TOTAL DIRECT NON-SALARY COSTS:</b>				<b>43,676.69</b>

## SCHEDULE 2.11(e)

**COST-PLUS FIXED FEE SUBCONTRACTS**

Work Assignment Number D002676-42.1

NCIA Groundwater RI/FS

NAME OF SUBCONTRACTOR	SERVICES TO BE PERFORMED	SUBCONTRACT PRICE
1. YEC	Surveying	\$4,224.22

**A. Direct Salary Costs**

PROFESSIONAL RESPONSIBILITY LEVEL	LABOR CLASS.	AVERAGE REIMB. RATE (\$/hr)	ESTIMATED NUMBER OF HOURS	TOTAL ESTIMATED DIRECT SALARY COST (\$)
	VIII	47.69	2	\$95.38
	V	31.53	32	\$1,008.96
	IV	27.40	0	\$0.00
	III	23.78	0	\$0.00
	II	17.60	26	\$457.60
	I	15.94	0	\$0.00
<b>TOTAL DIRECT SALARY COSTS:</b>				<b>\$1,561.94</b>

**FOOTNOTES:**

- 1 - These rates will be held firm until October 31, 1999.
- 2 - Reimbursement will be limited to the lesser of either the individuals actual hourly rate or the maximum rate for each labor category.
- 3 - Reimbursement will be limited to the maximum reimbursement rate for the professional responsibility level of the actual work performed.
- 4 - Only those labor classifications indicated with an asterix will be entitled to overtime.
- 5 - Reimbursement for technical time of principals, owners and officers will be limited to the maximum maximum reimbursement rate of that labor category, the actual hourly labor rate paid, or the Federal GS-18 rate, whichever is lower.
- 6 - The maximum rates in each labor category can be modified only by mutual written agreement and approved by both the Department and the Comptroller.
- 7 - This footnote applies to Schedules for years 4 thru 7 only. If the U.S. cost-of-living index increases at a rate greater than 6% compounded annually, the maximum salary rates will be subject to renegotiation for future years of the contract.

## SCHEDULE 2.11(e)

**COST-PLUS FIXED FEE SUBCONTRACTS**

Work Assignment Number D002676-42.1

NCIA Groundwater RI/FS

**B. Indirect Costs**

Indirect costs shall be paid based on a percentage of direct salary costs incurred which shall not exceed a maximum of 131% or the actual rate calculated in accordance with 48 CFR Federal Acquisition Regulations, whichever is lower.

Amount budgeted for indirect costs:

\$1,827.47

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

ITEM	\$ MAX REIMBURSEMENT RATE (Specify Unit)	EST. NO. OF UNITS	TOTAL EST. COST (\$)
Materials			\$100.00
Travel			\$96.40
Equipment			\$130.00
• - See attached schedules for detailed breakdown.			
<b>TOTAL DIRECT NON-SALARY COSTS:</b>			<b>\$326.40</b>

**D. Fixed Fee**

The fixed fee is:

See Schedule 2.10(h) for how the fixed fee should be claimed:

\$508.41

**TOTAL:** \$4,224.22

## SCHEDULE 2.11(f)

**UNIT PRICE SUBCONTRACTS**  
**Work Assignment Number D002676-42.1**  
**NCIA Groundwater RI/FS**

NAME OF SUBCONTRACTOR	SERVICES TO BE PERFORMED	SUBCONTRACT PRICE	MGMT. FEE
1. Corporate Reproductions	Report Reproductions	\$4,920.00	\$0.00

ITEM	\$ MAX REIMBURSEMENT RATE (Specify Unit)	EST. NO. OF UNITS	TOTAL EST. COST (\$)
<b>Subtask 3.4 Final Report</b>			
Report Reproductions	\$82 /ea	30	\$2,460.00
		<b>Subtotal Subtasks 3.4:</b>	<b>\$2,460.00</b>
<b>Subtask 8.4 Final Report</b>			
Report Reproductions	\$82 /ea	30	\$2,460.00
		<b>Subtotal Subtasks 8.4:</b>	<b>\$2,460.00</b>
		<b>Subcontract Total:</b>	<b>\$4,920.00</b>
		<b>Subcontract Management Fee:</b>	<b>\$0.00</b>

NOTE: A subcontract management fee of 5% will be allowed on total subcontracts over \$10,000 subject to the terms specified in the management fee protocol.

## SCHEDULE 2.11(f)

**UNIT PRICE SUBCONTRACTS**  
**Work Assignment Number D002676-42.1**  
**NCIA Groundwater RI/FS**

NAME OF SUBCONTRACTOR	SERVICES TO BE PERFORMED	SUBCONTRACT PRICE	MGMT. FEE
2. Delta Well and Pump	Monitoring well installation	\$89,767.00	\$4,488.35

ITEM	\$ MAX REIMBURSEMENT RATE (Specify Unit)	EST. NO. OF UNITS	TOTAL EST. COST (\$)
<b>Task 4.3 Monitoring well installation</b>			
3 4.25 HSA (0'-50')	\$15 /lf	200	\$3,000.00
6 4.25 HSA (50'-100')	\$15 /lf	80	\$1,200.00
32 Split Spoons (0'-50')	\$35 /lf	40	\$1,400.00
34 Split Spoons (50'-100')	\$40 /lf	20	\$800.00
42 Well Screen 2in. #10 slot sch.40	\$5 /lf	40	\$200.00
48 Well Screen End Cap	\$6 /ea	4	\$24.00
53 Well Riser 2in. Sch.40	\$2 /lf	240	\$480.00
62 Screen Sandpack (50'-100')	\$7.5 /lf	48	\$360.00
83 Seal 2in. In 4.25 HSA (50'-100')	\$16 /lf	20	\$320.00
104 Riser Backfill (0-50')	\$6 /lf	200	\$1,200.00
111 Riser Backfill (50-100')	\$6.5 /lf	12	\$78.00
149 55 Gallon Drums	\$40 /ea	4	\$160.00
15 Moving 55 Gallon Drums (fluids)	\$75 /hr	12	\$900.00
154 Well Development (50'-100')	\$120 /hr	16	\$1,920.00
170 Decontamination Pad	\$500 /ea	1	\$500.00
171 Decontamination	\$120 /hr	8	\$960.00
191 Steam Cleaner <sup>1</sup>	\$25 /day	5	\$125.00
192 Water Tanker	\$150 /day	5	\$750.00
<i>Additional Items</i>			
Manhole Cover*	\$150 /ea	4	\$600.00
Bobcat to move drilling cuttings	\$150 /day	5	\$750.00
Moving Cuttings with Bobcat	\$75 /hr	10	\$750.00
<b>Subtotal Subtasks 4.3:</b>			<b>\$16,477.00</b>
<b>Task 6.3 Hydropunch</b>			
2 Hollow Stem auger (3.25 in)	\$12 /lf	200	\$2,400.00
5 Hollow Stem auger (3.25 in)	\$12 /lf	200	\$2,400.00
8 Hollow Stem auger (3.25 in)	\$15 /lf	200	\$3,000.00
34 Split spoons	\$40 /ea	40	\$1,600.00
149 55 gal drums	\$40 /ea	10	\$400.00
170 Decon pad	\$500 /ea	1	\$500.00
171 Steam cleaning/decon	\$120 /hr	40	\$4,800.00
175 Hydropunch	\$150 /hr	70	\$10,500.00
191 Steam cleaner	\$25 /day	15	\$375.00
192 Water tank	\$150 /day	15	\$2,250.00
196 Generator	\$75 /day	15	\$1,125.00
199 Concrete cutter	\$250 /day	3	\$750.00
204 Grout open boreholes	\$6 /lf	400	\$2,400.00
208 Concrete cutting	\$75 /hr	6	\$450.00

## SCHEDULE 2.11(f)

**UNIT PRICE SUBCONTRACTS**  
**Work Assignment Number D002676-42.1**  
**NCIA Groundwater RI/FS**

*Additional Items*

Mob/demob	\$500 /ls	1	\$500.00
Bobcat	\$100 /day	15	\$1,500.00
Moving cuttings	\$75 /hr	40	\$3,000.00
<b>Subtotal Subtasks 8.3:</b>			<b>\$37,950.00</b>

**Task 10.1 Drilling**

3 4.25-in. ID HSA Augering (0-50 ft)	\$15 /lf	240	\$3,600.00
32 split spoon sampling (0-50 ft)	\$35 /lf	72	\$2,520.00
149 55-gal drums for cuttings	\$40 /ea	2	\$80.00
150 moving 55-gal drums	\$75 /hr	5	\$375.00
170 construct a decon pad	\$500 /ea	1	\$500.00
171 decon of rig, tools & equip	\$120 /hr	8	\$960.00
175 Hydropunch	\$140 /hr	9	\$1,260.00
191 Steam cleaner	\$25 /day	4.5	\$112.50
192 Water truck	\$150 /day	4.5	\$675.00
196 Generator	\$75 /day	4.5	\$337.50
199 Concrete cutter	\$250 /day	1	\$250.00

*Additional Items*

Mob/demob	\$1,500 /ls	0.25	\$375.00
<b>Subtotal Subtasks 10.1:</b>			<b>\$11,045.00</b>

**Task 10.2 Drilling**

3 4.25-in. ID HSA Augering (0-50 ft)	\$15 /lf	320	\$4,800.00
32 split spoon sampling (0-50 ft)	\$35 /lf	96	\$3,360.00
149 55-gal drums for cuttings	\$40 /ea	2	\$80.00
150 moving 55-gal drums	\$75 /hr	5	\$375.00
171 decon of rig, tools & equip	\$120 /hr	8	\$960.00
175 Hydropunch	\$140 /hr	6	\$840.00
191 Steam cleaner	\$25 /day	5.5	\$137.50
192 Water truck	\$150 /day	5.5	\$825.00
196 Generator	\$75 /day	5.5	\$412.50
199 Concrete cutter	\$250 /day	1	\$250.00

*Additional Items*

Mob/demob	\$1,500 /ls	0.25	\$375.00
<b>Subtotal Subtasks 10.2:</b>			<b>\$12,415.00</b>

**Task 10.3 Drilling**

3 4.25-in. ID HSA Augering (0-50 ft)	\$15 /lf	80	\$1,200.00
32 split spoon sampling (0-50 ft)	\$35 /lf	24	\$840.00
149 55-gal drums for cuttings	\$40 /ea	4	\$160.00
150 moving 55-gal drums	\$75 /hr	4	\$300.00
171 decon of rig, tools & equip	\$120 /hr	2	\$240.00
175 Hydropunch	\$140 /hr	3	\$420.00
191 Steam cleaner	\$25 /day	1.5	\$37.50
192 Water truck	\$150 /day	1.5	\$225.00
196 Generator	\$75 /day	1.5	\$112.50
199 Concrete cutter	\$250 /day	1	\$250.00

*Additional Items*

Mob/demob	\$1,500 /ls	0.25	\$375.00
<b>Subtotal Subtasks 10.3:</b>			<b>\$4,160.00</b>

## SCHEDULE 2.11(f)

**UNIT PRICE SUBCONTRACTS**  
**Work Assignment Number D002676-42.1**  
**NCIA Groundwater RI/FS**

**Task 10.4 Drilling**

3 4.25-in. ID HSA Augering (0-50 ft)	\$15 /lf	160	\$2,400.00
32 split spoon sampling (0-50 ft)	\$35 /lf	48	\$1,680.00
149 55-gal drums for cuttings	\$40 /ea	4	\$160.00
150 moving 55-gal drums	\$75 /hr	4	\$300.00
171 decon of rig, tools & equip	\$120 /hr	7	\$840.00
175 Hydropunch	\$140 /hr	6	\$840.00
191 Steam cleaner	\$25 /day	3.5	\$87.50
192 Water truck	\$150 /day	3-Jan	\$525.00
196 Generator	\$75 /day	3.5	\$262.50
199 Concrete cutter	\$250 /day	1	\$250.00

*Additional Items*

Mob/demob	\$1,500 /ls	0.25	\$375.00
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**Subtotal Subtasks 10.4:** \$7,720.00

**Subcontract Total:** \$89,767.00

**Subcontract Management Fee:** \$4,488.35

NOTE: A subcontract management fee of 5% will be allowed on total subcontracts over \$10,000 subject to the terms specified in the management fee protocol.

1 - Steam cleaner has built in generator.

- Must be suitable for use in high traffic area's on roads

## SCHEDULE 2.11(f)

**UNIT PRICE SUBCONTRACTS**  
**Work Assignment Number D002676-42.1**  
**NCIA Groundwater RI/FS**

NAME OF SUBCONTRACTOR	SERVICES TO BE PERFORMED	SUBCONTRACT PRICE	MGMT. FEE
3. Waste Management	Drill Cuttings Disposal	\$7,150.00	\$0.00

ITEM	METHOD	\$ MAX REIMBURSEMENT RATE (Specify Unit)	EST. NO. OF UNITS	TOTAL EST. COST (\$)
<b>TASK 4.5 Drill Cuttings Disposal</b>				
<i>Project Costs</i>				
Monthly Rental		\$150 /mo	3	\$450.00
Disposal		\$15 /yd	25	\$375.00
Stage & Transport		\$665 /Rolloff	1	\$665.00
<b>Subtotal Subtasks 4.5:</b>				<b>\$1,490.00</b>
<b>TASK 6.3 Hydropunch</b>				
Rolloff Rental		\$150 /mo	9	\$1,350.00
Disposal		\$15 /yd	50	\$750.00
Stage & Transport		\$665 /Rolloff	3	\$1,995.00
<b>Subtotal Subtasks 6.3:</b>				<b>\$4,095.00</b>
<b>TASK 10.2</b>				
Rolloff Rental		\$150 /mo	1	\$150.00
Disposal		\$15 /yd	50	\$750.00
Stage & Transport		\$665 /Rolloff	1	\$665.00
<b>Subtotal Subtasks 10.2:</b>				<b>\$1,565.00</b>
<b>Subcontract Subtotal:</b>				<b>\$7,150.00</b>
<b>Subcontract Management Fee:</b>				<b>\$0.00</b>

NOTE: A subcontract management fee of 5% will be allowed on total subcontracts over \$10,000 subject to the terms specified in the management fee protocol.

## SCHEDULE 2.11(f)

**UNIT PRICE SUBCONTRACTS**  
**Work Assignment Number D002676-42.1**  
**NCIA Groundwater RI/FS**

NAME OF SUBCONTRACTOR	SERVICES TO BE PERFORMED	SUBCONTRACT PRICE	MGMT. FEE
4. Subsurface Investigations	GPR Survey	\$1,586.00	\$0.00

ITEM	\$ MAX REIMBURSEMENT RATE (Specify Unit)	EST. NO. OF UNITS	TOTAL EST. COST (\$)
<b>TASK 10.4</b> Survey	\$1,586 /day	1	\$1,586.00
<b>Subcontract Total:</b>			\$1,586.00
<b>Subcontract Management Fee:</b>			\$0.00

NOTE: A subcontract management fee of 5% will be allowed on total subcontracts over \$10,000 subject to the terms specified in the management fee protocol.

ENGINEER: Lawler, Matusky & Skelly Engineers, LLP  
 CONTRACT No.: D002676  
 PROJECT NAME: NCIA Groundwater RI/FS  
 WORK ASSIGNMENT No.: D002676-42.1  
 TASK No./NAME: Summary  
 COMPLETE: 0%

SCHEDULE 2.11

PAGE 1 of 12

DATE PREPARED: 27 Oct 99

# MONTHLY COST CONTROL REPORT

## SUMMARY OF FISCAL INFORMATION

BILLING PERIOD:

INVOICE No.:

CAP No.:

EXPENDITURE CATEGORY	A COST CLAIMED THIS PERIOD	B PAID TO DATE	C TOTAL DISALLOWED TO DATE	D TOTAL COSTS PAID TO DATE (A+B)	E ESTIMATED COSTS TO COMPLETION	F ESTIMATED TOTAL WORK ASSIGNMENT PRICE (A+B+E)	G APPROVED BUDGET	H ESTIMATED UNDER/OVER (G-F)
1. Direct Salary Costs:	0.00	0.00	0.00	0.00	97,728.51	97,728.51	97,728.51	0.00
2. Indirect Salary Costs (1.55):	0.00	0.00	0.00	0.00	151,479.23	151,479.23	151,479.23	0.00
3. Subtotal Direct Salary and Indirect Costs:	0.00	0.00	0.00	0.00	249,207.74	249,207.74	249,207.74	0.00
4. Travel:	0.00	0.00	0.00	0.00	18,421.69	18,421.69	18,421.69	0.00
5. Other Non-Salary Costs:								
Material Costs:	0.00	0.00	0.00	0.00	18,938.00	18,938.00	18,938.00	0.00
Equipment Costs:	0.00	0.00	0.00	0.00	6,317.00	6,317.00	6,317.00	0.00
6. Subtotal Direct Non- Salary Costs:	0.00	0.00	0.00	0.00	43,676.69	43,676.69	43,676.69	0.00
7. Subs:								
Subconsultants:								
YEC	0.00	0.00	0.00	0.00	4,224.22	4,224.22	4,224.22	0.00
Subcontractors:								
Corporate Reproductions	0.00	0.00	0.00	0.00	4,920.00	4,920.00	4,920.00	0.00
Delta Well and Pump	0.00	0.00	0.00	0.00	89,767.00	89,767.00	89,767.00	0.00
Waste Management	0.00	0.00	0.00	0.00	7,150.00	7,150.00	7,150.00	0.00
Sub-Surface Informational Surveys	0.00	0.00	0.00	0.00	0.00	1,586.00	1,586.00	0.00
8. Total Work Assignment Costs:	0.00	0.00	0.00	0.00	398,945.65	400,531.65	400,531.65	0.00
9. Fees:								
Fixed Fee:	0.00	0.00	0.00	0.00	24,920.84	24,920.84	24,920.84	0.00
Management Fee:	0.00	0.00	0.00	0.00	4,488.35	4,488.35	4,488.35	0.00
10. Total Work Assignment Price:	0.00	0.00	0.00	0.00	428,354.84	429,940.84	429,940.84	0.00

Project Manager (Engineer): \_\_\_\_\_

Date: \_\_\_\_\_

ENGINEER: Lawler, Matusky & Skelly Engineers LLP  
 CONTRACT No.: D002676-42 650-421  
 PROJECT NAME: NCIA Groundwater RI/FS  
 WORK ASSIGNMENT No.: D002676-42.1  
 TASK No./NAME: Task 1  
 COMPLETE: 0%

SCHEDULE 2 11(g)

# MONTHLY COST CONTROL REPORT

## SUMMARY OF FISCAL INFORMATION

PAGE: 2 of 12  
 DATE PREPARED: 26 Oct 99  
 BILLING PERIOD:  
 INVOICE No.:  
 CAP No.:

EXPENDITURE CATEGORY	A COST CLAIMED THIS PERIOD	B PAID TO DATE	C TOTAL DISSALLOWED TO DATE	D TOTAL COSTS PAID TO DATE (A + B)	E ESTIMATED COSTS TO COMPLETION	F ESTIMATED TOTAL WORK ASSIGNMENT PRICE (A + B + E)	G APPROVED BUDGET	H ESTIMATED UNDER/OVER (G-F)
1. Direct Salary Costs:	0.00	0.00	0.00	0.00	3,781.65	3,781.65	3,781.65	0.00
2. Indirect Salary Costs (1.55):	0.00	0.00	0.00	0.00	5,861.56	5,861.56	5,861.56	0.00
3. Subtotal Direct Salary and Indirect Costs:	0.00	0.00	0.00	0.00	9,643.21	9,643.21	9,643.21	0.00
4. Travel:	0.00	0.00	0.00	0.00	195.50	195.50	195.50	0.00
5. Other Non-Salary Costs:								
Material Costs:	0.00	0.00	0.00	0.00	459.30	459.30	459.30	0.00
Equipment Costs:	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
6. Subtotal Direct Non- Salary Costs:	0.00	0.00	0.00	0.00	654.80	654.80	654.80	0.00
7. Subs:								
Subconsultants:								
Subcontractors:								
8. Total Work Assignment Costs:	0.00	0.00	0.00	0.00	10,298.01	10,298.01	10,298.01	0.00
9. Fees:								
Fixed Fee:	0.00	0.00	0.00	0.00	964.33	964.33	964.33	0.00
Management Fee:	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
10. Total Work Assignment Price:	0.00	0.00	0.00	0.00	11,262.34	11,262.34	11,262.34	0.00

Project Manager (Engineer): \_\_\_\_\_

Date: \_\_\_\_\_

ENGINEER: Lawler, Matusky & Skelly Engineers  
 CONTRACT No.: D002676  
 PROJECT NAME: NCIA Groundwater RI/FS  
 WORK ASSIGNMENT No.: D002676-42.1  
 TASK No./NAME: Task 2  
 COMPLETE: 0%

SCHEDULE 2.11(g)

PAGE: 3 of 12  
 DATE PREPARED: 20 Oct 99  
 BILLING PERIOD:  
 INVOICE No.:  
 CAP No.:

# MONTHLY COST CONTROL REPORT SUMMARY OF FISCAL INFORMATION

EXPENDITURE CATEGORY	A COST CLAIMED THIS PERIOD	B PAID TO DATE	C TOTAL DISALLOWED TO DATE	D TOTAL COSTS PAID TO DATE (A + B)	E ESTIMATED COSTS TO COMPLETION	F ESTIMATED TOTAL WORK ASSIGNMENT PRICE (A + B + E)	G APPROVED BUDGET	H ESTIMATED UNDER/OVER (G-F)
1. Direct Salary Costs:	0.00	0.00	0.00	0.00	23,897.31	23,897.31	23,897.31	0.00
2. Indirect Salary Costs (1.55):	0.00	0.00	0.00	0.00	37,040.83	37,040.83	37,040.83	0.00
3. Subtotal Direct Salary and Indirect Costs:	0.00	0.00	0.00	0.00	60,938.14	60,938.14	60,938.14	0.00
4. Travel:	0.00	0.00	0.00	0.00	8,669.90	8,669.90	8,669.90	0.00
5. Other Non-Salary Costs:								
Material Costs:	0.00	0.00	0.00	0.00	11,839.30	11,839.30	11,839.30	0.00
Equipment Costs:	0.00	0.00	0.00	0.00	3,310.00	3,310.00	3,310.00	0.00
6. Subtotal Direct Non- Salary Costs:	0.00	0.00	0.00	0.00	23,819.20	23,819.20	23,819.20	0.00
7. Subs:								
Subconsultants:								
YEC	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Subcontractors:								
8. Total Work Assignment Costs:	0.00	0.00	0.00	0.00	84,757.34	84,757.34	84,757.34	0.00
9. Fees:								
Fixed Fee:	0.00	0.00	0.00	0.00	6,093.83	6,093.83	6,093.83	0.00
Management Fee:	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
10. Total Work Assignment Price:	0.00	0.00	0.00	0.00	90,851.17	90,851.17	90,851.17	0.00

Project Manager (Engineer): \_\_\_\_\_

Date: \_\_\_\_\_

**MONTHLY COST CONTROL REPORT**  
**SUMMARY OF FISCAL INFORMATION**

PROJECT NAME: NCIA Groundwater RI/FS  
 WORK ASSIGNMENT No.: D002676-42.1  
 TASK No./NAME: Task 5  
 COMPLETE: 0%

BILLING PERIOD:  
 INVOICE No.:  
 CAP No.:

EXPENDITURE CATEGORY	A COST CLAIMED THIS PERIOD	B PAID TO DATE	C TOTAL DISALLOWED TO DATE	D TOTAL COSTS PAID TO DATE (A+B)	E ESTIMATED COSTS TO COMPLETION	F ESTIMATED TOTAL WORK ASSIGNMENT PRICE (A+B+E)	G APPROVED BUDGET	H ESTIMATED UNDER/OVER (G-F)
1. Direct Salary Costs:	0.00	0.00	0.00	0.00	12,359.21	12,359.21	12,359.21	0.00
2. Indirect Salary Costs (1.55):	0.00	0.00	0.00	0.00	19,156.78	19,156.78	19,156.78	0.00
3. Subtotal Direct Salary and Indirect Costs:	0.00	0.00	0.00	0.00	31,515.99	31,515.99	31,515.99	0.00
4. Travel:	0.00	0.00	0.00	0.00	183.50	183.50	183.50	0.00
5. Other Non-Salary Costs:								
Material Costs:	0.00	0.00	0.00	0.00	384.70	384.70	384.70	0.00
Equipment Costs:	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
6. Subtotal Direct Non- Salary Costs:	0.00	0.00	0.00	0.00	568.20	568.20	568.20	0.00
7. Subs: Subconsultants: Subcontractors:								
8. Total Work Assignment Costs:	0.00	0.00	0.00	0.00	32,084.19	32,084.19	32,084.19	0.00
9. Fees:								
Fixed Fee:	0.00	0.00	0.00	0.00	3,151.60	3,151.60	3,151.60	0.00
Management Fee:	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
10. Total Work Assignment Price:	0.00	0.00	0.00	0.00	35,235.79	35,235.79	35,235.79	0.00

Project Manager (Engineer):

Date:

CONTRACT No.:  
PROJECT NAME:  
WORK ASSIGNMENT No.:  
TASK No./NAME:  
COMPLETE:

D002676  
NCIA Groundwater RI/FS  
D002676-42.1  
Task 8  
0%

# MONTHLY COST CONTROL REPORT SUMMARY OF FISCAL INFORMATION

DATE PREPARED 27 Oct 99  
BILLING PERIOD:  
INVOICE No.:  
CAP No.:

EXPENDITURE CATEGORY	A COST CLAIMED THIS PERIOD	B PAID TO DATE	C TOTAL DISSALLOWED TO DATE	D TOTAL COSTS PAID TO DATE (A+B)	E ESTIMATED COSTS TO COMPLETION	F ESTIMATED TOTAL WORK ASSIGNMENT PRICE (A+B+E)	G APPROVED BUDGET	H ESTIMATED UNDER/OVER (G-F)
1. Direct Salary Costs:	0.00	0.00	0.00	0.00	21,465.04	21,465.04	21,465.04	0.00
2. Indirect Salary Costs (1.55):	0.00	0.00	0.00	0.00	33,270.82	33,270.82	33,270.82	0.00
3. Subtotal Direct Salary and Indirect Costs:	0.00	0.00	0.00	0.00	54,735.86	54,735.86	54,735.86	0.00
4. Travel:	0.00	0.00	0.00	0.00	322.50	322.50	322.50	0.00
5. Other Non-Salary Costs:								
Material Costs:	0.00	0.00	0.00	0.00	328.00	328.00	328.00	0.00
Equipment Costs:	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
6. Subtotal Direct Non- Salary Costs:	0.00	0.00	0.00	0.00	650.50	650.50	650.50	0.00
7. Subs:								
Subconsultants:								
Subcontractors:								
Corporate Reproductions	0.00	0.00	0.00	0.00	2,460.00	2,460.00	2,460.00	0.00
8. Total Work Assignment Costs:	0.00	0.00	0.00	0.00	57,846.36	57,846.36	57,846.36	0.00
9. Fees:								
Fixed Fee:	0.00	0.00	0.00	0.00	5,473.60	5,473.60	5,473.60	0.00
Management Fee:	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
10. Total Work Assignment Price:	0.00	0.00	0.00	0.00	63,319.96	63,319.96	63,319.96	0.00

Project Manager (Engineer): \_\_\_\_\_

Date: \_\_\_\_\_

ENGINEER: Lawler, Matusky & Skelly Engineers LLP  
 CONTRACT No.: D002676  
 PROJECT NAME: NCIA Groundwater RI/FS  
 WORK ASSIGN. No.: D002676-42.1

SCHEDULE 2.11(h)

DATE PREPARED: 26 Oct 99  
 BILLING PERIOD:  
 INVOICE No.:

MONTHLY COST CONTROL REPORT  
 SUMMARY OF LABOR HOURS

Number of Direct Labor Hours Budgeted/Expended Number of Direct Labor Hours

LABOR CLASSIFICATION	IX		VIII		VII		VI		V		IV		III		II		I		WP		TOTAL NO. OF DIRECT LABOR HRS.	
	\$48.86		\$37.66		\$32.96		\$30.87		\$27.54		\$21.54		\$19.28		\$17.78		\$13.48		\$12.66		BUD	EXP.
SALARY RATE	BUD	EXP.	BUD	EXP.	BUD	EXP.	BUD	EXP.	BUD	EXP.	BUD	EXP.	BUD	EXP.	BUD	EXP.	BUD	EXP.	BUD	EXP.		
Task 1	3.0	0.0	0.0	0.0	14.0	0.0	0.0	0.0	0.0	0.0	44.0	0.0	9.0	0.0	33.0	0.0	33.0	0.0	6.0	0.0	142.0	0.0
Task 2	5.0	0.0	0.0	0.0	38.0	0.0	0.0	0.0	24.0	0.0	56.0	0.0	82.0	0.0	104.0	0.0	782.0	0.0	21.0	0.0	1,112.0	0.0
Task 3	3.5	0.0	0.0	0.0	35.0	0.0	0.0	0.0	0.0	0.0	168.0	0.0	84.0	0.0	64.0	0.0	276.0	0.0	18.0	0.0	648.5	0.0
Task 4	1.0	0.0	0.0	0.0	15.0	0.0	0.0	0.0	0.0	0.0	9.0	0.0	54.0	0.0	42.0	0.0	89.0	0.0	9.0	0.0	219.0	0.0
Task 5	1.5	0.0	0.0	0.0	30.0	0.0	0.0	0.0	0.0	0.0	24.0	0.0	96.0	0.0	220.0	0.0	114.0	0.0	22.0	0.0	507.5	0.0
Task 6	3.0	0.0	0.0	0.0	3.0	0.0	8.0	0.0	8.0	0.0	68.0	0.0	4.0	0.0	24.0	0.0	316.0	0.0	24.0	0.0	458.0	0.0
Task 7	1.0	0.0	0.0	0.0	3.0	0.0	0.0	0.0	1.0	0.0	29.0	0.0	1.0	0.0	8.0	0.0	0.0	0.0	3.0	0.0	46.0	0.0
Task 8	5.0	0.0	4.0	0.0	12.0	0.0	12.0	0.0	6.0	0.0	340.0	0.0	72.0	0.0	28.0	0.0	380.0	0.0	36.0	0.0	895.0	0.0
Task 10	1.0	0.0	0.0	0.0	5.0	0.0	0.0	0.0	0.0	0.0	23.0	0.0	2.0	0.0	4.0	0.0	171.0	0.0	7.0	0.0	213.0	0.0
TOTAL HOURS:	24.0	0.0	4.0	0.0	155.0	0.0	20.0	0.0	39.0	0.0	761.0	0.0	404.0	0.0	527.0	0.0	2,161.0	0.0	146.0	0.0	4,241.0	0.0

NOTES:

ENGINEER: Lawler, Matusky & Skelly Engineers LLP  
 CONTRACT No.: D002676  
 PROJECT NAME: NCIA Groundwater RI/FS  
 WORK ASSIGNMENT No.: D002676-42.1

SCHEDULE 2.11(g) - SUPPLEMENTAL

**COST CONTROL REPORT**  
 SUBCONTRACTOR

PAGE: 12 of 12  
 DATE PREPARED: 26 Oct 99  
 BILLING PERIOD:  
 INVOICE No.:  
 CAP No.:

SUBCONTRACT NAME	A SUBCONTRACT COST CLAIMED THIS APPLICATION INCLUDING RESUBMITTALS	B SUBCONTRACT COST APPROVED FOR PAYMENT ON PREVIOUS APPLICATIONS	C TOTAL SUBCONTRACT COSTS TO DATE (A PLUS B)	D SUBCONTRACT APPROVED BUDGET	E MANAGEMENT FEE BUDGET	F MANAGEMENT FEE PAID	G TOTAL COSTS TO DATE (C PLUS F)
1. Corporate Reproductions	0.00	0.00	0.00	4,920.00	0.00	0.00	0.00
2. Delta Well and Pump	0.00	0.00	0.00	89,767.00	4,488.35	0.00	0.00
3. Waste Management	0.00	0.00	0.00	7,150.00	0.00	0.00	0.00
<b>TOTALS:</b>	0.00	0.00	0.00	103,423.00	4,488.35	0.00	0.00

Project Manager: \_\_\_\_\_

Date: \_\_\_\_\_

- Notes: (1) Costs listed in columns A, B, C & 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.  
 (3) Total line, column G should equal line 7 (subcontractors), column D of Summary Cost Control Report.

**LABOR HOURS AND COSTS**  
**TASK SUMMARY**  
**NCIA Groundwater RI/FS**

NSPE/ASCE LABOR CLASS	1988 HOURLY RATE (\$)	TASK 1: 1987 RATES	TASK 2: 1988 RATES	TASK 3: 1988 RATES	TASK 4: 1988 RATES	TASK 5: 1988 RATES	TASK 6: 1988 RATES	TASK 7: 1988 RATES	TASK 8: 1988 RATES	TASK 10: 1988 RATES	TOTAL HOURS	SUBTOTAL (\$)
IX	63.86	3.00	5.00	3.50	1.00	1.50	3.00	1.00	5.00	1.00	24.00	1,085.62
VIII	49.09	0.00	0.00	0.00	0.00	0.00	0.00	0.00	4.00	0.00	4.00	0.00
VII	43.07	14.00	38.00	35.00	15.00	30.00	3.00	3.00	12.00	5.00	155.00	5,814.45
VI	40.35	0.00	0.00	0.00	0.00	0.00	8.00	0.00	12.00	0.00	20.00	322.80
V	35.99	0.00	24.00	0.00	0.00	0.00	8.00	1.00	6.00	0.00	39.00	1,151.68
IV	28.15	44.00	56.00	168.00	9.00	24.00	68.00	29.00	340.00	23.00	761.00	10,387.35
III	25.21	9.00	82.00	84.00	54.00	96.00	4.00	1.00	72.00	2.00	404.00	8,294.09
II	24.51	33.00	104.00	64.00	42.00	220.00	24.00	8.00	28.00	4.00	527.00	11,936.37
I	18.59	33.00	782.00	276.00	89.00	114.00	316.00	0.00	380.00	171.00	2,161.00	29,929.90
WP	16.55	6.00	21.00	18.00	9.00	22.00	24.00	3.00	36.00	7.00	146.00	1,655.00
<b>TOTAL UNITS:</b>		142.00	1,112.00	648.50	219.00	507.50	458.00	46.00	895.00	213.00	4,241.00	
<b>DIRECT SALARY COSTS (\$):</b>		3,781.65	23,897.31	15,575.18	5,157.48	12,359.21	9,806.43	1,316.35	21,465.04	4,369.86		97,728.51
<b>INDIRECT SALARY</b>												
1.55	5,861.56	37,040.83	24,141.54	7,994.10	19,156.78	15,199.97	2,040.35	33,270.82	6,773.28			151,479.23
<b>SUBTOTAL (\$):</b>		9,643.21	60,938.14	39,716.72	13,151.58	31,515.99	25,006.40	3,356.70	54,735.86	11,143.14		249,207.74
0.10	964.33	6,093.83	3,971.68	1,315.17	3,151.60	2,500.64	335.67	5,473.60	1,114.32			24,920.84
<b>MATERIAL COSTS (\$):</b>		459.30	11,839.30	1,811.70	564.20	384.70	2,806.60	258.00	328.00	486.20		18,938.00
<b>TRAVEL COSTS (\$):</b>		195.50	8,669.90	236.50	1,678.70	183.50	4,795.10	65.50	322.50	2,274.49		18,421.69
<b>FIELD EQUIPMENT (\$):</b>		0.00	3,310.00	0.00	694.00	0.00	2,313.00	0.00	0.00	0.00		6,317.00
<b>SUBS (\$):</b>		0.00	0.00	2,460.00	22,191.22	0.00	42,045.00	0.00	2,460.00	38,491.00		107,647.22
0.05	0.00	0.00	0.00	823.85	0.00	1,897.50	0.00	0.00	1,767.00			4,488.35
<b>TOTAL (\$):</b>		11,262.34	90,851.17	48,196.60	40,418.72	35,235.79	81,364.24	4,015.87	63,319.96	55,276.15		429,940.84

**LABOR HOURS AND COSTS**  
**TASK 1: WORK PLAN DEVELOPMENT**  
**NCIA Groundwater RI/FS**

NSPE/ASCE LABOR CLASS	HOURLY RATE (\$)	1.0 BACKGROUND REVIEW	1.1 FIELD OBSERVATION	1.2 DRAFT WORK PLAN	1.3 FINAL WORK PLAN	1.4 TASK MANAGEMENT	TOTAL HOURS	SUBTOTAL (\$)
IX	63.86	0.0	0.0	2.0	1.0	0.0	3.0	191.58
VIII	49.09	0.0	0.0	0.0	0.0	0.0	0.0	0.00
VII	43.07	1.0	2.0	8.0	2.0	1.0	14.0	602.98
VI	40.35	0.0	0.0	0.0	0.0	0.0	0.0	0.00
V	35.99	0.0	0.0	0.0	0.0	0.0	0.0	0.00
IV	28.15	8.0	8.0	24.0	4.0	0.0	44.0	1,238.60
III	25.21	2.0	2.0	4.0	0.0	1.0	9.0	226.89
II	24.51	0.0	12.0	11.0	10.0	0.0	33.0	808.83
I	18.59	7.0	2.0	4.0	4.0	16.0	33.0	613.47
WP	16.55	0.0	0.0	4.0	2.0	0.0	6.0	99.30
TOTAL UNITS:		18.0	26.0	57.0	23.0	18.0	142.0	
DIRECT SALARY COSTS (\$):		448.82	693.06	1,658.89	615.16	365.72		3,781.65
INDIRECT SALARY								
COSTS (\$): 1.55:		695.67	1,074.24	2,571.28	953.50	566.87		5,861.56
SUBTOTAL (\$):		1,144.49	1,767.30	4,230.17	1,568.66	932.59		9,643.21
FIXED FEE (\$): 0.10:		114.45	176.73	423.02	156.87	93.26		964.33
MATERIAL COSTS (\$):		61.30	63.00	160.00	140.00	35.00		459.30
TRAVEL COSTS (\$):		0.00	178.50	8.50	8.50	0.00		195.50
FIELD EQUIPMENT (\$):		0.00	0.00	0.00	0.00	0.00		0.00
SUBS (\$):		0.00	0.00	0.00	0.00	0.00		0.00
MGMT FEE (\$): 0.05:		0.00	0.00	0.00	0.00	0.00		0.00
TOTAL (\$):		1,320.24	2,185.53	4,821.69	1,874.03	1,060.85		11,262.34

**MATERIAL COSTS**  
**TASK 1: WORK PLAN DEVELOPMENT**  
**NCIA Groundwater RI/FS**

ITEM	RATE BASE	ESTIMATED PER UNIT	1.1 BACKGROUND REVIEW	1.2 SCOPING SESSION	1.3 DRAFT WORK PLAN	1.4 FINAL WORK PLAN	1.5 TASK MANAGEMENT	TOTAL (\$)
Telephone	(at cost)	1.00	20	20	10	5	5	60.00
Reproduction	(per page)	0.07	190	100	1,000	1,000	100	167.30
General PC usage	(per hr)	1.50	4	4	20	10	2	60.00
Fax	(per page)	1.00	2	10	10	10	10	42.00
Overnight shipping	(at cost)	1.00	20	20	40	40	10	130.00
TOTAL UNITS:			236	154	1,080	1,065	127	
TASK TOTAL (\$):			61.30	63.00	160.00	140.00	35.00	459.30

**TRAVEL COSTS**  
**TASK 1: WORK PLAN DEVELOPMENT**  
**NCIA Groundwater RI/FS**

ITEM	RATE BASE	ESTIMATED \$ PER UNIT	1.1 BACKGROUND REVIEW	1.2 SCOPING SESSION	1.3 DRAFT WORK PLAN	1.4 FINAL WORK PLAN	1.5 TASK MANAGEMENT	TOTAL (\$)
Personal mileage	(per mile)	0.325	0	500	20	20	0	175.50
Tolls	(at cost)	1.00	0	16	2	2	0	20.00
TOTAL UNITS:			0	516	22	22	0	
TASK TOTAL (\$):			0.00	178.50	8.50	8.50	0.00	195.50

TABLE 2 (Page 1 of 4)

**LABOR HOURS AND COSTS**  
**TASK 2: MONITORING WELL SAMPLING**  
**NCIA Groundwater RI/FS**

NSPE/ASCE LABOR CLASS	HOURLY RATE (\$)	2.1 MONITORING WELL LOCATION DATABASE	2.2 MOBILIZATION / DEMOBILIZATION	2.3 MONITORING WELL SAMPLING	2.4 DATA MANAGEMENT	2.5 EARLY WARNING BIENNIAL SAMPLING	2.6 PUBLIC PARTICIPATION	2.7 TASK MANAGEMENT	TOTAL HOURS	SUBTOTAL (\$)
IX	63.86	1.0	1.0	2.0	0.0	0.0	0.0	1.0	5.0	319.30
VIII	49.09	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.00
VII	43.07	8.0	4.0	12.0	1.0	8.0	1.0	4.0	38.0	1,636.66
VI	40.35	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.00
V	35.99	0.0	0.0	4.0	20.0	0.0	0.0	0.0	24.0	863.76
IV	28.15	40.0	4.0	6.0	0.0	4.0	2.0	0.0	56.0	1,576.40
III	25.21	12.0	20.0	20.0	6.0	8.0	8.0	8.0	82.0	2,067.22
II	24.51	24.0	4.0	8.0	60.0	8.0	0.0	0.0	104.0	2,549.04
I	18.59	120.0	20.0	560.0	20.0	48.0	8.0	6.0	782.0	14,537.38
WP	16.55	8.0	4.0	4.0	1.0	0.0	2.0	2.0	21.0	347.55
TOTAL UNITS:		213.0	57.0	616.0	108.0	76.0	21.0	21.0	1,112.0	
DIRECT SALARY COSTS (\$):		4,788.38	1,388.98	12,134.30	2,773.08	1,747.24	482.87	582.46		23,897.31
INDIRECT SALARY COSTS (\$): 1.55:		7,421.99	2,152.92	18,808.17	4,298.27	2,708.22	748.45	902.81		37,040.83
SUBTOTAL (\$):		12,210.37	3,541.90	30,942.47	7,071.35	4,455.46	1,231.32	1,485.27		60,938.14
FIXED FEE (\$): 0.10:		1,221.04	354.19	3,094.25	707.14	445.55	123.13	148.53		6,093.83
MATERIAL COSTS (\$):		162.00	92.00	10,032.30	452.00	1,070.60	20.40	10.00		11,839.30
TRAVEL COSTS (\$):		454.72	71.50	7,469.60	32.50	594.58	47.00	0.00		8,669.90
FIELD EQUIPMENT (\$):		0.00	0.00	3,094.00	0.00	216.00	0.00	0.00		3,310.00
SUBS (\$):		0.00	0.00	0.00	0.00	0.00	0.00	0.00		0.00
MGMT FEE (\$): 0.05:		0.00	0.00	0.00	0.00	0.00	0.00	0.00		0.00
TOTAL (\$):		14,048.13	4,059.59	54,632.62	8,262.99	6,782.19	1,421.85	1,643.80		90,851.17

TABLE 2 (Page 2 of 4)

**MATERIAL COSTS**  
**TASK 2: MONITORING WELL SAMPLING**  
**NCIA Groundwater RI/FS**

ITEM	RATE BASE	ESTIMATED COST PER UNIT	2.1 MONITORING WELL LOCATION DEVELOPMENT	2.2 MOBILIZATION/DEMOBILIZATION	2.3 MONITORING WELL SAMPLING	2.4 DATA MANAGEMENT	2.5 EARLY WARNING BIENNIAL SAMPLING	2.6 PUBLIC PARTICIPATION	2.7 TASK MANAGEMENT	TOTAL (\$)
Telephone	(at cost)	1.00	80	20	200	20	80	10	10	420.00
Reproduction	(per page)	0.07	100	100	600	600	200	20	0	113.40
General PC usage	(per hr)	1.50	10	10	40	60	6	6	0	198.00
Fax	(per page)	1.00	20	20	100	100	20	0	0	260.00
Overnight shipping	(at cost)	1.00	40	20	1,500	200	0	0	0	1,760.00
Photography	(at cost)	1.00	0	10	0	0	0	0	0	10.00
Disposable Field Items:										
Nylon Rope	(per ft)	0.20	0	0	13,000	0	1,000	0	0	2,800.00
½" ID tubing	(per ft)	0.30	0	0	13,000	0	1,000	0	0	4,200.00
Decon Chemicals	(at cost)	1.00	0	0	50	0	40	0	0	90.00
Decon D.I. Water	(per gal.)	0.12	0	0	100	0	200	0	0	36.00
Sample bottles	(per case)	42.95	0	0	4	0	8	0	0	515.40
Ice for samples	(at cost)	1.00	0	0	100	0	40	0	0	140.00
Disposable Bailer	(ea)	11.50	0	0	91	0	0	0	0	1,046.50
Repair of NYSDEC Meters	(lump sum)	125.00	0	0	2	0	0	0	0	250.00
TOTAL UNITS:			250	180	28,787	980	2,594	36	10	
TASK TOTAL (\$):			162.00	92.00	10,032.30	452.00	1,070.60	20.40	10.00	11,839.30

TABLE 2 (Page 3 of 4)

**TRAVEL COSTS**  
**TASK 2: MONITORING WELL SAMPLING**  
**NCIA Groundwater RI/FS**

ITEM	RATE BASE	ESTIMATED \$ PER UNIT	2.1 MONITORING WELL LOCATION DATABASE	2.2 MONITORING WELL IDENTIFICATION	2.3 MONITORING WELL SAMPLING	2.4 DATA MANAGEMENT	2.5 EARLY WARNING BIENNIAL SAMPLING	2.6 PUBLIC PARTICIPATION	2.7 TASK MANAGEMENT	TOTAL (\$)
Truck/van rental	(per day)	31.34	3	0	28	0	2	0	0	1,034.22
Truck/van mileage	(per mile)	0.133	400	0	1760	0	300	0	0	327.18
Personal mileage	(per mile)	0.325	220	220	400	100	0	120	0	344.50
Per diem	(per day)	108.00	2	0	56	0	4	0	0	6,696.00
Tolls	(at cost)	1.00	10	0	180	0	60	8	0	258.00
Parking	(at cost)	1.00	10	0	0	0	0	0	0	10.00
TOTAL UNITS:			645	220	2,424	100	366	128	0	
TASK TOTAL (\$):			454.72	71.50	7,469.60	32.50	594.58	47.00	0.00	8,669.90

TABLE 2 (Page 4 of 4)

**FIELD EQUIPMENT COSTS**  
**TASK 2: MONITORING WELL SAMPLING**  
**NCIA Groundwater RI/FS**

ITEM	RATE BASE	ESTIMATED PER UNIT	2.1 MONITORING WELL LOCATION DATABASE	2.2 MOBILIZATION/ DEMOBILIZATION	2.3 MONITORING WELL SAMPLING	2.4 DATA MANAGEMENT	2.5 EARLY WARNING BIENNIAL SAMPLING	2.6 PUBLIC PARTICIPATION	2.7 TASK MANAGEMENT	TOTAL (\$)
Personal Protective Equipment:										
Level D	(per day)	12	0	0	56	0	4	0	0	720.00
2" Submersible Pump (110 V)	(per day)	15	0	0	28	0	2	0	0	450.00
Generators - Honda (6,500 watt)	(per day)	51	0	0	28	0	2	0	0	1530.00
PID - HNu (P1-101)	(per day)	23	0	0	14	0	0	0	0	322.00
pH meter - CP (pH pen)	(per day)	4	0	0	14	0	2	0	0	64.00
Turbidity meter - Hoch	(per day)	14	0	0	14	0	2	0	0	224.00
SUBTOTAL:			0.00	0.00	252.00	0.00	36.00	0.00	0.00	
TOTAL UNITS:			0	0	266	0	16	0	0	
TASK TOTALS (\$):			0.00	0.00	3,094.00	0.00	216.00	0.00	0.00	3310.00

@ - NYSDEC meters to be used.

TABLE 3 (Page 1 of 4)

**LABOR HOURS AND COSTS**  
**TASK 3: GROUNDWATER INVESTIGATION REPORT**  
**NCIA Groundwater RI/FS**

INSPE/ASCE LABOR CLASS	HOURLY RATE (\$) 1998	3.1 COMPILE AND SUMMARIZE PREVIOUS DATA	3.2 DATA EVALUATION, PLUME MAPS	3.3 DRAFT REPORT	3.4 FINAL REPORT	3.5 PUBLIC PARTICIPATION	3.6 TASK MANAGEMENT	TOTAL HOURS	SUBTOTAL (\$)
IX	63.86	0.0	0.0	2.0	1.0	0.0	0.5	3.5	223.51
VIII	49.09	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.00
VII	43.07	8.0	10.0	8.0	6.0	1.0	2.0	35.0	1,507.45
VI	40.35	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.00
V	35.99	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.00
IV	28.15	4.0	60.0	80.0	16.0	8.0	0.0	168.0	4,729.20
III	25.21	16.0	40.0	16.0	10.0	0.0	2.0	84.0	2,117.64
II	24.51	8.0	20.0	20.0	16.0	0.0	0.0	64.0	1,568.64
I	18.59	100.0	60.0	80.0	20.0	12.0	4.0	276.0	5,130.84
WP	16.55	0.0	2.0	6.0	4.0	2.0	4.0	18.0	297.90
<b>TOTAL UNITS:</b>		136.0	192.0	212.0	73.0	23.0	12.5	648.5	
<b>DIRECT SALARY COSTS (\$):</b>		2,915.60	4,766.80	5,204.34	1,854.94	524.45	309.05		15,575.18
<b>INDIRECT SALARY</b>									
<b>COSTS (\$): 1.55</b>		4,519.18	7,388.54	8,066.73	2,875.16	812.90	479.03		24,141.54
<b>SUBTOTAL (\$):</b>		7,434.78	12,155.34	13,271.07	4,730.10	1,337.35	788.08		39,716.72
<b>FIXED FEE (\$): 0.10</b>		743.48	1,215.53	1,327.11	473.01	133.74	78.81		3,971.68
<b>MATERIAL COSTS (\$):</b>		138.00	962.00	350.00	204.00	88.70	69.00		1,811.70
<b>TRAVEL COSTS (\$):</b>		75.00	72.50	21.00	21.00	47.00	0.00		236.50
<b>FIELD EQUIPMENT (\$):</b>		0.00	0.00	0.00	0.00	0.00	0.00		0.00
<b>SUBS (\$):</b>		0.00	0.00	0.00	2,460.00	0.00	0.00		2,460.00
<b>MGMT FEE (\$): 0.05</b>		0.00	0.00	0.00	0.00	0.00	0.00		0.00
<b>TOTAL (\$):</b>		8,391.26	14,405.37	14,969.18	7,888.11	1,606.79	935.89		48,196.60

**MATERIAL COSTS**  
**TASK 3: GROUNDWATER INVESTIGATION REPORT**  
**NCIA Groundwater RI/FS**

ITEM	RATE BASE	ESTIMATED 1 PER UNIT	3.1 CONDENSE AND SUMMARIZE PREVIOUS DATA	3.2 DATA EVALUATION/ PLUME MAPS	3.3 DRAFT REPORT	3.4 FINAL REPORT	3.5 PUBLIC PARTICIPATION	3.6 TASK MANAGEMENT	TOTAL (\$)
Telephone	(at cost)	1.00	40	20	20	10	0	10	100.00
Reproduction	(per page)	0.07	400	600	3,000	200	10	100	301.70
General PC usage	(per hr)	1.50	40	100	0	40	0	8	282.00
Auto CADD	(per hr)	15.00	0	48	0	0	4	0	780.00
Fax	(per page)	1.00	10	30	20	20	8	20	108.00
Overnight shipping	(at cost)	1.00	0	0	100	100	20	20	240.00
TOTAL UNITS:			490	798	3,140	370	42	158	
TASK TOTAL (\$):			138.00	962.00	350.00	204.00	88.70	69.00	1,811.70

**TRAVEL COSTS**  
**TASK 3: GROUNDWATER INVESTIGATION REPORT**  
**NCIA Groundwater RI/FS**

ITEM	RATE BASE	ESTIMATED \$ PER UNIT	3.1 COMPILE AND SUMMARIZE PREVIOUS DATA	3.2 DATA EVALUATION/PLUME MAPS	3.3 DRAFT REPORT	3.4 FINAL REPORT	3.5 PUBLIC PARTICIPATION	3.6 TASK MANAGEMENT	TOTAL (\$)
Personal mileage	(per mile)	0.325	200	100	40	40	120	0	162.50
Tolls	(at cost)	1.00	10	40	8	8	8	0	74.00
TOTAL UNITS:			210	140	48	48	128	0	
TASK TOTAL (\$):			75.00	72.50	21.00	21.00	47.00	0.00	236.50

**SUBCONSULTANTS/SUBCONTRACTORS COSTS**  
**TASK 3: GROUNDWATER INVESTIGATION REPORT**  
**NCIA Groundwater RI/FS**

ITEM	3.1 COMPLETE AND SUMMARIZE PREVIOUS DATA	3.2 DATA EVALUATION/PLUME MAPPING	3.3 DRAFT REPORT	3.4 FINAL REPORT	3.5 PUBLIC PARTICIPATION	3.6 TASK MANAGEMENT	TOTAL (\$)
<b>Subconsultants:</b>							
SUBTOTAL:	0.00	0.00	0.00	0.00	0.00	0.00	0.00
<b>Subcontractors:</b>							
Corporate Reproductions	0.00	0.00	0.00	2,460.00	0.00	0.00	2,460.00
SUBTOTAL:	0.00	0.00	0.00	2,460.00	0.00	0.00	2,460.00
TOTAL:	0.00	0.00	0.00	2,460.00	0.00	0.00	2,460.00

TABLE 4 (Page 1 of 5)

**LABOR HOURS AND COSTS**  
**TASK 4: DOWNGRADE/INT MONITORING WELLS**  
**NCIA Groundwater RI/FS**

NSPE/ASCE LABOR CLASS	HOURLY RATE (\$)	4.1 SELECTION OF DRILLING LOCATION	4.2 MOBILIZATION/DEMobilIZATION	4.3 MONITORING WELL INSTALLATION	4.4 MONITORING WELL SAMPLING	4.5 DRILL CUTTING DISPOSAL	4.6 TASK MANAGEMENT	TOTAL HOURS	SUBTOTAL (\$)
IX	63.86	1.0	0.0	0.0	0.0	0.0	0.0	1	63.86
VIII	49.09	0.0	0.0	0.0	0.0	0.0	0.0	0	0.00
VII	43.07	1.0	0.0	8.0	2.0	2.0	2.0	15	646.05
VI	40.35	0.0	0.0	0.0	0.0	0.0	0.0	0	0.00
V	35.99	0.0	0.0	0.0	0.0	0.0	0.0	0	0.00
IV	28.15	1.0	0.0	8.0	0.0	0.0	0.0	9	253.35
III	25.21	8.0	16.0	12.0	8.0	8.0	2.0	54	1,361.34
II	24.51	2.0	0.0	32.0	8.0	0.0	0.0	42	1,029.42
I	18.59	2.0	4.0	32.0	48.0	1.0	2.0	89	1,654.51
WP	16.55	1.0	4.0	2.0	0.0	1.0	1.0	9	148.95
TOTAL UNITS:		16	24	94	66	12	7	219	
DIRECT SALARY COSTS (\$):		439.51	543.92	2,284.58	1,376.22	322.96	190.29		5,157.48
INDIRECT SALARY COSTS (\$): 1.55		681.24	843.08	3,541.10	2,133.14	500.59	294.95		7,994.10
SUBTOTAL (\$):		1,120.75	1,387.00	5,825.68	3,509.36	823.55	485.24		13,151.58
FIXED FEE (\$): 0.10		112.08	138.70	582.57	350.94	82.36	48.52		1,315.17
MATERIAL COSTS (\$):		74.50	74.50	157.00	178.60	68.60	11.00		564.20
TRAVEL COSTS (\$):		106.30	106.30	803.20	566.60	96.30	0.00		1,678.70
FIELD EQUIPMENT (\$):		0.00	0.00	290.00	404.00	0.00	0.00		694.00
SUBS (\$):		0.00	0.00	20,701.22	0.00	1,490.00	0.00		22,191.22
MGMT FEE (\$): 0.05		0.00	0.00	823.85	0.00	0.00	0.00		823.85
TOTAL (\$):		1,413.63	1,706.50	29,183.52	5,009.50	2,560.81	544.76		40,418.72

TABLE 4 (Page 2 of 5)

**MATERIAL COSTS**  
**TASK 4: DOWNGRADE/INT MONITORING WELLS**  
**NCIA Groundwater RI/FS**

ITEM	RATE BASE	ESTIMATED PER UNIT	3.1 SELECTION OF DRILLING LOCATION	3.2 MOBILIZATION/DEMOLITION	4.3 MONITORING WELL INSTALLATION	4.4 MONITORING WELL SAMPLING	4.5 DRILL CUTTING DISPOSAL	4.6 TASK MANAGEMENT	TOTAL (\$)
Telephone	(at cost)	1.00	10	10	80	10	10	4	124.00
Reproduction	(per page)	0.07	100	100	200	80	80	100	46.20
General PC usage	(per hr)	1.50	5	5	2	2	2	0	24.00
Fax	(per page)	1.00	10	10	20	40	40	0	120.00
Overnight shipping	(at cost)	1.00	40	40	40	120	10	0	250.00
TOTAL UNITS:			165	165	342	252	142	104	
TASK TOTAL (\$):			74.50	74.50	157.00	178.60	68.60	11.00	564.20

**TRAVEL COSTS**  
**TASK 4: DOWNGRADE/INT MONITORING WELLS**  
**NCIA Groundwater RI/FS**

ITEM	RATE BASE	ESTIMATED \$ PER UNIT	4.1 SELECTION OF DRILLING LOCATIONS	4.2 MOBILIZATION/DEMOLITION	4.3 MONITORING WELL INSTALLATION	4.4 MONITORING WELL SAMPLING	4.5 DRILL CUTTING DISPOSAL	4.6 TASK MANAGEMENT	TOTAL (\$)
Truck/van rental	(per day)	31.34	1	1	5	2	1	0	313.40
Truck/van mileage	(per mile)	0.133	120	120	500	240	120	0	146.30
Personal mileage	(per mile)	0.325	120	120	0	0	120	0	117.00
Per diem	(per day)	108.00	0	0	5	4	0	0	972.00
Tolls	(at cost)	1.00	20	20	40	40	10	0	130.00
TOTAL UNITS:			261	261	550	286	251	0	
TASK TOTAL (\$):			106.30	106.30	803.20	566.60	96.30	0.00	1,678.70

TABLE 4 (Page 4 of 5)

**FIELD EQUIPMENT COSTS**  
**TASK 4: DOWNGRADE/INT MONITORING WELLS**  
 NCIA Groundwater RI/FS

ITEM	RATE BASE	ESTIMATED \$ PER UNIT	4.1 SELECTION OF DRILLING LOCATIONS	4.2 MOBILIZATION/ DEMOBILIZATION	4.3 MONITORING WELL INSTALLATION	4.4 MONITORING WELL SAMPLING	4.5 DRILL CUTTING DISPOSAL	4.6 TASK MANAGEMENT	TOTAL (\$)
Personal Protective Equipment:									
Level D	(per day)	12	0	0	5	4	0	0	108.00
2" Submersible Pump (110 V)	(per day)	15	0	0	0	4	0	0	60.00
Generators - Honda (6,500 watt)	(per day)	51	0	0	0	4	0	0	204.00
PID - HNu (P1-101)	(per day)	23	0	0	5	2	0	0	161.00
DO/temp. meter - YEI (50' + 100')	(per day)	23	0	0	5	2	0	0	161.00
TOTAL UNITS:			0	0	30	22	0	0	
TASK TOTALS (\$):			0.00	0.00	290.00	404.00	0.00	0.00	694.00

@ - NYSDEC Meter.

TABLE 4 (Page 5 of 5)

**SUBCONSULTANTS/SUBCONTRACTORS COSTS**  
**TASK 4: DOWNGRADE/INT MONITORING WELLS**  
**NCIA Groundwater RI/FS**

ITEM	4.1 SELECTION OF DRILLING LOCATION	4.2 MOBILIZATION/DEMOLITION	4.3 MONITORING WELL INSTALLATION	4.4 MONITORING WELL SAMPLING	4.5 DRILL CUTTING DISPOSAL	4.6 TASK MANAGEMENT	TOTAL (\$)
<b>Subconsultants:</b>							
YEC (survey)	0.00	0.00	4,224.22	0.00	0.00	0.00	4,224.22
<b>SUBTOTAL:</b>	0.00	0.00	4,224.22	0.00	0.00	0.00	4,224.22
<b>Subcontractors:</b>							
Delta Well and Pump	0.00	0.00	16,477.00	0.00	0.00	0.00	16,477.00
Waste Management	0.00	0.00	0.00	0.00	1,490.00	0.00	1,490.00
<b>SUBTOTAL:</b>	0.00	0.00	16,477.00	0.00	1,490.00	0.00	17,967.00
<b>TOTAL:</b>	0.00	0.00	20,701.22	0.00	1,490.00	0.00	22,191.22

TABLE 5 (Page 1 of 3)

**LABOR HOURS AND COSTS**  
**TASK 5: Phase I - FEASIBILITY STUDY**  
**NCIA Groundwater RI/FS**

NSPE/ASCE LABOR CLASS	HOURLY RATE (\$)	ANALYSIS OF ALTERNATIVES	PRELIMINARY SCREENING OF ALTERNATIVES	PHASE I FS - SCOPING	PHASE I TASK MANAGEMENT	TOTAL HOURS	SUBTOTAL (\$)
IX	63.86	1.0	0.0	0.0	0.5	1.5	95.79
VIII	49.09	0.0	0.0	0.0	0.0	0	0.00
VII	43.07	10.0	10.0	4.0	6.0	30	1,292.10
VI	40.35	0.0	0.0	0.0	0.0	0	0.00
V	35.99	0.0	0.0	0.0	0.0	0	0.00
IV	28.15	8.0	8.0	8.0	0.0	24	675.60
III	25.21	30.0	60.0	0.0	6.0	96	2,420.16
II	24.51	60.0	160.0	0.0	0.0	220	5,392.20
I	18.59	50.0	40.0	20.0	4.0	114	2,119.26
WP	16.55	8.0	12.0	0.0	2.0	22	364.10
<b>TOTAL UNITS:</b>		167	290	32	18.5	508	
<b>DIRECT SALARY COSTS (\$):</b>		4,008.56	7,032.30	769.28	549.07		12,359.21
<b>INDIRECT SALARY</b>							
<b>COSTS (\$):</b>	1.55	6,213.27	10,900.07	1,192.38	851.06		19,156.78
<b>SUBTOTAL (\$):</b>		10,221.83	17,932.37	1,961.66	1,400.13		31,515.99
<b>FIXED FEE (\$):</b>	0.10	1,022.18	1,793.24	196.17	140.01		3,151.60
<b>MATERIAL COSTS (\$):</b>		186.00	152.00	29.00	17.70		384.70
<b>TRAVEL COSTS (\$):</b>		86.00	0.00	97.50	0.00		183.50
<b>FIELD EQUIPMENT (\$):</b>		0.00	0.00	0.00	0.00		0.00
<b>SUBS (\$):</b>		0.00	0.00	0.00	0.00		0.00
<b>MGMT FEE (\$):</b>	0.05	0.00	0.00	0.00	0.00		0.00
<b>TOTAL (\$):</b>		11,516.01	19,877.61	2,284.33	1,557.84		35,235.79

TABLE 5 (Page 2 of 3)

**MATERIAL COSTS**  
**TASK 5: Phase I - FEASIBILITY STUDY**  
**NCIA Groundwater RI/FS**

ITEM	UNIT	ESTIMATED \$ PER UNIT	5.1 DEVELOPMENT OF ALTERNATIVES	5.2 PRELIMINARY SCREENING OF ALTERNATIVES	5.3 PHASE I FS - SCOPING	5.4 TASK MANAGEMENT	TOTAL (\$)
Telephone	(at cost)	1.00	10	10	20	10	50.00
Reproduction	(per page)	0.07	1,400	1,200	100	10	189.70
General PC usage	(per hr)	1.50	12	12	0	2	39.00
Fax	(per page)	1.00	20	20	2	4	46.00
Overnight shipping	(at cost)	1.00	40	20	0	0	60.00
TOTAL UNITS:			1,482	1,262	122	26	
TASK TOTAL (\$):			186.00	152.00	29.00	17.70	384.70

TABLE 5 (Page 3 of 3)

**TRAVEL COSTS**  
**TASK 5: Phase I - FEASIBILITY STUDY**  
**NCIA Groundwater RI/FS**

ITEM	RATE BASE	ESTIMATED # PER UNIT	5.1 DEVELOPMENT OF ALTERNATIVES	5.2 PRELIMINARY SCREENING OF ALTERNATIVES	5.3 PHASE II FS - SCOPING	5.4 FS REPORT	5.5 PUBLIC PARTICIPATION	5.6 TASK MANAGEMENT	TOTAL (\$)
Personal mileage	(per mile)	0.325	240	0	300	0	0	0	175.50
Tolls	(at cost)	1.00	8	0	0	0	0	0	8.00
TOTAL UNITS:			248	0	300	0	0	0	
TASK TOTAL (\$):			86.00	0.00	97.50	0.00	0.00	0.00	183.50

TABLE 6 (Page 1 of 5)

**LABOR HOURS AND COSTS****TASK 6: PHASE II RI****NCIA Groundwater RI/FS**

NSPE/ASCE LABOR CLASS	HOURLY RATE (\$)	6.1 MONITORING WELL SAMPLING	6.2 SOILING GREENEARY WARNING WELL SAMPLING	6.3 HYDRO PUNCH	6.4 TASK MANAGEMENT	TOTAL HOURS	SUBTOTAL (\$)
IX	63.86	1.0	0.0	1.0	1.0	3.0	191.58
VIII	49.09	0.0	0.0	0.0	0.0	0.0	0.00
VII	43.07	0.0	0.0	0.0	3.0	3.0	129.21
VI	40.35	4.0	0.0	4.0	0.0	8.0	322.80
V	35.99	4.0	0.0	4.0	0.0	8.0	287.92
IV	28.15	24.0	8.0	32.0	4.0	68.0	1,914.20
III	25.21	0.0	0.0	0.0	4.0	4.0	100.84
II	24.51	4.0	0.0	20.0	0.0	24.0	588.24
I	18.59	140.0	24.0	150.0	2.0	316.0	5,874.44
WP	16.55	0.0	16.0	8.0	0.0	24.0	397.20
<b>TOTAL UNITS:</b>		177.0	48.0	219.0	14.0	458.0	
<b>DIRECT SALARY COSTS (\$):</b>		3,745.46	936.16	4,681.12	443.69		9,806.43
<b>INDIRECT SALARY</b>							
<b>COSTS (\$):</b>	1.55	5,805.46	1,451.05	7,255.74	687.72		15,199.97
<b>SUBTOTAL (\$):</b>		9,550.92	2,387.21	11,936.86	1,131.41		25,006.40
<b>FIXED FEE (\$):</b>	0.10	955.09	238.72	1,193.69	113.14		2,500.64
<b>MATERIAL COSTS (\$):</b>		2,065.80	191.00	549.80	0.00		2,806.60
<b>TRAVEL COSTS (\$):</b>		1,869.58	573.78	2,351.74	0.00		4,795.10
<b>FIELD EQUIPMENT (\$):</b>		819.00	360.00	1,134.00	0.00		2,313.00
<b>SUBS (\$):</b>		0.00	0.00	42,045.00	0.00		42,045.00
<b>MGMT FEE (\$):</b>	0.05	0.00	0.00	1,897.50	0.00		1,897.50
<b>TOTAL (\$):</b>		15,260.39	3,750.71	61,108.59	1,244.55		81,364.24

TABLE 6 (Page 2 of 5)

**MATERIAL COSTS****TASK 6: PHASE II RI****NCIA Groundwater RI/FS**

ITEM	UNIT	ESTIMATED # PER UNIT	6.1 MONITORING WELL SAMPLING	6.2 BOWLING GREEN EARLY WARNING WELL SAMPLING	6.3 HYDRO PUNCH	6.4 TASK MANAGEMENT	TOTAL (\$)
Telephone	(at cost)	1.00	20	10	100	0	130.00
General PC usage	(per hr)	1.50	10	10	20	0	60.00
Fax	(per page)	1.00	20	10	10	0	40.00
Overnight shipping	(at cost)	1.00	100	100	100	0	300.00
Photography	(at cost)	1.00	0	0	10	0	10.00
Disposable Field Items:							
Nylon Rope	(per ft)	0.20	3,200	0	0	0	640.00
½" ID tubing	(per ft)	0.30	3,200	0	0	0	960.00
Decon Chemicals	(at cost)	1.00	20	0	20	0	40.00
Decon D.I. Water	(per gal.)	0.12	40	0	40	0	9.60
Ice for samples	(at cost)	1.00	10	10	10	0	30.00
Disposable Bailer	(ea)	11.50	24	4	10	0	437.00
Road Opening Permit	(at cost)	1.00	0	0	150	0	150.00
TOTAL UNITS:			6,644	144	470	0	
TASK TOTAL (\$):			2,065.80	191.00	549.80	0.00	2,806.60

TABLE 6 (Page 3 of 5)

**TRAVEL COSTS**  
**TASK 6: PHASE II RI**  
**NCIA Groundwater RI/FS**

ITEM		ESTIMATED RATE PER UNIT	6.1 MONITORING WELL SAMPLING	6.2 BOWLING GREEN EARLY WARNING WELL SAMPLING	6.3 HYDRO PUNCH	6.4 TASK MANAGEMENT	TOTAL (\$)
Truck/van rental	(per day)	31.34	7	2	16	0	783.50
Truck/van mileage	(per mile)	0.133	400	200	600	0	159.60
Personal mileage	(per mile)	0.33	200	100	100	0	130.00
Per diem	(per day)	108.00	14	4	16	0	3,672.00
Tolls	(at cost)	1.00	20	20	10	0	50.00
TOTAL UNITS:			641	326	742	0	
TASK TOTAL (\$):			1,869.58	573.78	2,351.74	0.00	4,795.10

## FIELD EQUIPMENT COSTS

## TASK 6: PHASE II RI

## NCIA Groundwater RI/FS

ITEM	RATE BASE	ESTIMATED # PER UNIT	6.1 MONITORING WELL SAMPLING	6.2 BOWLING GREEN EARLY WARNING WELL SAMPLING	6.3 HYDROPUNCH	6.4 TASK MANGEMENT	TOTAL (\$)
Personal Protective Equipment:							
Level D	(per day)	12	14	4	16	0	408.00
2" Submersible Pump (110 V)	(per day)	15	7	0	0	0	105.00
Generators - Honda (6,500 watt)	(per day)	51	7	4	10	0	1,071.00
DO/temp. meter - YEI (50' + 100') @	(per day)	23	7	4	16	0	621.00
pH meter - CP (pH pen) @	(per day)	4	7	4	16	0	108.00
SUBTOTAL:		189.00	108.00	432.00	0.00		
TOTAL UNITS:		77	36	138	0		
TASK TOTALS (\$):		819.00	360.00	1,134.00	0.00		2,313.00

## SUBCONSULTANTS/SUBCONTRACTORS COSTS

TASK 6: PHASE II RI  
NCIA Groundwater RI/FS

ITEM	6.1 MONITORING WELL SAMPLING	6.2 BOWLING GREEN EARLY WARNING WELL SAMPLING	6.3 HYDRO PUNCH	6.4 TASK MANGEMENT	TOTAL (+)
<b>Subconsultants:</b>					
SUBTOTAL:	0.00	0.00	0.00	0.00	0.00
<b>Subcontractors:</b>					
Drilling Subcontractor	0.00	0.00	37,950.00	0.00	37,950.00
Waste Management	0.00	0.00	4,095.00	0.00	4,095.00
SUBTOTAL:	0.00	0.00	42,045.00	0.00	42,045.00
TOTAL:	0.00	0.00	42,045.00	0.00	42,045.00

**LABOR HOURS AND COSTS**  
**TASK 7: EXPOSURE ASSESSMENT**  
**NCIA Groundwater RI/FS**

NSPE/ASCE/ADDE CLASS	7.1 DATA COLLECTION	7.2 DATA ASSESSMENT	7.3 TASK MANAGEMENT	TOTAL HOURS	SUBTOTAL (\$)
IX	63.86	1.0	0.0	1.0	63.86
VIII	49.09	0.0	0.0	0.0	0.00
VII	43.07	2.0	1.0	3.0	129.21
VI	40.35	0.0	0.0	0.0	0.00
V	35.99	1.0	0.0	1.0	35.99
IV	28.15	28.0	1.0	29.0	816.35
III	25.21	1.0	0.0	1.0	25.21
II	24.51	8.0	0.0	8.0	196.08
I	18.59	0.0	0.0	0.0	0.00
WP	16.55	1.0	2.0	3.0	49.65
<b>TOTAL UNITS:</b>		42.0	4.0	46.0	
<b>DIRECT SALARY COSTS (\$):</b>	1,212.03	104.32			1,316.35
<b>INDIRECT SALARY</b>					
<b>COSTS (\$):</b>	1.55	1,878.65	161.70		2,040.35
<b>SUBTOTAL (\$):</b>	3,090.68	266.02			3,356.70
<b>FIXED FEE (\$):</b>	0.10	309.07	26.60		335.67
<b>MATERIAL COSTS (\$):</b>	258.00	0.00			258.00
<b>TRAVEL COSTS (\$):</b>	65.50	0.00			65.50
<b>FIELD EQUIPMENT (\$):</b>	0.00	0.00			0.00
<b>SUBS (\$):</b>	0.00	0.00			0.00
<b>MGMT FEE (\$):</b>	0.05	0.00	0.00		0.00
<b>TOTAL (\$):</b>	3,723.25	292.62			4,015.87

**MATERIAL COSTS**  
**TASK 7: EXPOSURE ASSESSMENT**  
**NCIA Groundwater RI/FS**

ITEM	RATE BASE	ESTIMATED # PER UNIT	7.1 DATA ASSESSMENT	7.2 TASK MANAGEMENT	TOTAL (\$)
Telephone	{at cost}	1.00	20	0	20.00
Reproduction	{per page}	0.07	400	0	28.00
General PC usage	{per hr}	1.50	100	0	150.00
Fax	{per page}	1.00	20	0	20.00
Overnight shipping	{at cost}	1.00	40	0	40.00
		<b>TOTAL UNITS:</b>	580	0	
		<b>TASK TOTAL (\$):</b>	258.00	0.00	258.00

**TRAVEL COSTS**  
**TASK 7: EXPOSURE ASSESSMENT**  
**NCIA Groundwater RI/FS**

ITEM		RATE BASE	ESTIMATED # PER UNIT	7.1 DATA ASSESSMENT	7.2 TASK MANAGEMENT	TOTAL (\$)
Personal mileage	(per mile)	0.33	140	0		45.50
Tolls	(at cost)	1.00	20	0		20.00
TOTAL UNITS:			160	0		
TASK TOTAL (\$):			65.50	0.00		65.50

TABLE 8-1 Page 2 of 2

**MATERIAL COSTS**  
**TASK 8: Phase II FS**  
**NCIA Groundwater RI/FS**

ITEM	RATE BASE	ESTIMATED \$ PER UNIT	8.1 DETAILED ANALYSIS OF ALTERNATIVES	8.2 DRAFT PHASE II FS	8.3 FINAL RI/FS REPORT	8.4 TASK MANAGEMENT	TOTAL (\$)
Telephone	(at cost)	1.00	20	20	20	0	60.00
Reproduction	(per page)	0.07	600	200	600	0	98.00
General PC usage	(per hr)	1.50	20	10	10	0	60.00
Fax	(per page)	1.00	20	10	20	0	50.00
Overnight shipping	(at cost)	1.00	20	20	20	0	60.00
TOTAL UNITS:			680	260	670	0	
TASK TOTAL (\$):			132.00	79.00	117.00	0.00	328.00

TABLE 8-1  
**TRAVEL COSTS**  
**TASK 8: Phase II FS**  
**NCIA Groundwater RI/FS**

ITEM	RATE BASE	ESTIMATED PER UNIT	8.1 DETAILED ANALYSIS OF ALTERNATIVES	8.2 DRAFT PHASE II FS	8.3 FINAL RI/FS REPORT	8.4 TASK MANAGEMENT	TOTAL (\$)
Personal mileage (per mile)	0.33	300	300	300	0		292.50
Tolls (at cost)	1.00	10	10	10	0		30.00
TOTAL UNITS:		310	310	310	0		
TASK TOTAL (\$):		107.50	107.50	107.50	0.00		322.50

# **SUBCONSULTANTS/SUBCONTRACTORS COSTS** **TASK 8: Phase II FS**

ITEM	8.1 DETAILED ANALYSIS OF ALTERNATIVES	8.2 DRAFT PHASE II FS	8.3 FINAL R/F/S REPORT	8.4 TASK MANAGEMENT	TOTAL (\$)
<b>Subconsultants:</b>					
<b>SUBTOTAL:</b>	0.00	0.00	0.00	0.00	0.00
<b>Subcontractors:</b>					
Marsden Reproduction	0.00	0.00	2,460.00	0.00	2,460.00
<b>SUBTOTAL:</b>	0.00	0.00	2,460.00	0.00	2,460.00
<b>TOTAL:</b>	0.00	0.00	2,460.00	0.00	2,460.00

# LABOR HOURS AND COSTS TASK10: Soil and Groundwater Sampling NCIA Groundwater RI/FS

NSPE/ASCE LABOR CLASS	HOURLY RATE (\$)	10-1 33.05 SYLVESTER STREET	10-2 49 SYLVESTER STREET	10-3 842 MAIN STREET	10-4 95 HOPPER STREET	10-6 TASK MANAGEMENT	TOTAL HOURS	SUBTOTAL (\$)
IX	63.86	0.0	0.0	0.0	0.0	1.0	1.0	63.86
VIII	49.09	0.0	0.0	0.0	0.0	0.0	0.0	0.00
VII	43.07	1.0	1.0	1.0	1.0	1.0	5.0	215.35
VI	40.35	0.0	0.0	0.0	0.0	0.0	0.0	0.00
V	35.99	0.0	0.0	0.0	0.0	0.0	0.0	0.00
IV	28.15	8.0	6.0	2.0	6.0	1.0	23.0	647.45
III	25.21	1.0	0.0	0.0	1.0	0.0	2.0	50.42
II	24.51	1.0	0.0	1.0	2.0	0.0	4.0	98.04
I	18.59	50.0	60.0	20.0	40.0	1.0	171.0	3,178.89
WP	16.55	2.0	1.0	1.0	1.0	2.0	7.0	115.85
TOTAL UNITS:		63.0	68.0	25.0	51.0	6.0	213.0	
DIRECT SALARY COSTS (\$):		1,280.59	1,343.92	512.23	1,046.35	186.77		4,369.86
INDIRECT SALARY								
COSTS (\$):		1.55	1,994.91	2,083.08	793.96	1,621.84	289.49	6,773.28
SUBTOTAL (\$):		3,265.50	3,427.00	1,306.19	2,668.19	476.26		11,143.14
FIXED FEE (\$):		0.10	326.55	342.70	130.62	266.82	47.63	1,114.32
MATERIAL COSTS (\$):		136.80	103.80	103.80	136.80	5.00		486.20
TRAVEL COSTS (\$):		756.30	895.64	164.14	458.41	0.00		2,274.49
FIELD EQUIPMENT (\$):		0.00	0.00	0.00	0.00	0.00		0.00
SUBS (\$):		11,045.00	12,415.00	4,160.00	10,871.00	0.00		38,491.00
MGMT FEE (\$):		552.25	620.75	208.00	386.00	0.00		1,767.00
TOTAL (\$):		16,082.40	17,804.89	6,072.75	14,787.22	528.89		55,276.15

## MATERIAL COSTS

### TASK10: Soil and Groundwater Sampling NCIA Groundwater RI/FS

ITEM	RATE/BASE	ESTIMATED PER UNIT	10.1 33 35 SYLVESTER STREET	10.2 49 SYLVESTER STREET	10.3 542 MAIN STREET	10.4 86 HOPPER STREET	10.5 TASK MANAGEMENT	TOTAL (\$)
Telephone	(at cost)	1.00	20	10	10	20	5	65.00
Reproduction	(per page)	0.07	40	40	40	40	0	11.20
General PC usage	(per hr)	1.50	8	8	8	8	0	48.00
Fax	(per page)	1.00	10	10	10	10	0	40.00
Overnight shipping	(at cost)	1.00	40	40	40	40	0	160.00
Disposable Field Items:								
Ice for samples	(at cost)	1.00	10	10	10	10	0	40.00
Stakes/Flagging	(at cost)	3.75	2	2	2	2	0	30.00
Disposable Bailer	(ea)	11.50	3	1	1	3	0	92.00
TOTAL UNITS:			133	121	121	133	5	
TASK TOTAL (\$):			136.80	103.80	103.80	136.80	5.00	486.20

## TRAVEL COSTS

### TASK10: Soil and Groundwater Sampling NCIA Groundwater RI/FS

ITEM	RATE BASE	ESTIMATED # PER UNIT	10.1 33-36 SYLVESTER STREET	10.2 49 SYLVESTER STREET	10.3 842 MAIN STREET	10.4 85 HOPPER STREET	10.5 TASK MANAGEMENT	TOTAL (\$)
Truck/van rental	(per day)	31.34	5	6	1	3	0	470.10
Truck/van mileage	(per mile)	0.133	200	200	100	80	0	77.14
Personal mileage	(per mile)	0.33	40	40	20	30	0	42.25
Per diem	(per day)	108.00	5	6	1	3	0	1,620.00
Tolls	(at cost)	1.00	20	20	5	20	0	65.00
TOTAL UNITS:			270	272	127	136	0	
TASK TOTAL (\$):			756.30	895.64	164.14	458.41	0.00	2,274.49

# SUBCONSULTANTS/SUBCONTRACTORS COSTS

## TASK10: Soil and Groundwater Sampling

ITEM	10.1 35 SYLVESTER STREET	10.2 43 SYLVESTER STREET	10.3 542 MAIN STREET	10.4 95 HOPPER STREET	10.5 TASK MANAGEMENT	TOTAL (\$)
<b>Subconsultants:</b>						
SUBTOTAL:	0.00	0.00	0.00	0.00	0.00	0.00
<b>Subcontractors:</b>						
Sub-Surface Informational Surveys Inc.	0.00	0.00	0.00	1,586.00	0.00	1,586.00
Delta Well	11,045.00	12,415.00	4,160.00	7,720.00	0.00	35,340.00
Waste Management	0.00	0.00	0.00	1,565.00	0.00	1,565.00
SUBTOTAL:	11,045.00	12,415.00	4,160.00	10,871.00	0.00	38,491.00
TOTAL:	11,045.00	12,415.00	4,160.00	10,871.00	0.00	38,491.00