

**REMEDIAL DESIGN  
PROJECT MANAGEMENT WORK PLAN**

**TRIMMER ROAD LANDFILL SITE  
SITE NO. 8-28-012  
TOWN OF PARMA  
MONROE COUNTY, NEW YORK**

**WORK ASSIGNMENT NO. D003600-42**

**PREPARED FOR**

**NEW YORK STATE DEPARTMENT OF  
ENVIRONMENTAL CONSERVATION**

**BY**

**DVIRKA AND BARTILUCCI CONSULTING ENGINEERS  
SYRACUSE, NEW YORK**

**OCTOBER 2004**

**REMEDIAL DESIGN  
PROJECT MANAGEMENT WORK PLAN  
TRIMMER ROAD LANDFILL SITE  
TOWN OF PARMA, NEW YORK**

**TABLE OF CONTENTS**

| <u>Section</u> | <u>Title</u>   | <u>Page</u> |
|----------------|--|-------------|
| <b>1.0</b>     | <b>INTRODUCTION.....</b>   | <b>1-1</b>  |
| <b>2.0</b>     | <b>BACKGROUND INFORMATION .....</b>                                | <b>2-1</b>  |
| 2.1            | Site Location and Description.....                                 | 2-1         |
| 2.2            | Site History .....   | 2-1         |
| <b>3.0</b>     | <b>SCOPE OF WORK.....</b>  | <b>3-1</b>  |
| 3.1            | Task 1 - Work Plan Preparation.....                                | 3-1         |
| 3.2            | Task 2 - Pre-Design Study .....                                    | 3-1         |
| 3.2.1          | Monitoring Well Installation and Development .....                 | 3-2         |
| 3.2.2          | Groundwater Elevation Monitoring and Sampling.....                 | 3-5         |
| 3.2.3          | Surveying .....  | 3-5         |
| 3.2.4          | Data Usability Summary Report.....                                 | 3-6         |
| 3.2.5          | Pre-Design Study Report .....                                      | 3-6         |
| 3.3            | Task 3 - Plans and Specifications (Contract Documents).....        | 3-6         |
| 3.3.1          | Preliminary Design Submittal.....                                  | 3-7         |
| 3.3.2          | Intermediate Design Submittal .....                                | 3-8         |
| 3.3.3          | Pre-Final and Final Plans and Specifications.....                  | 3-8         |
| 3.3.4          | Project Cost Estimate.....   | 3-9         |
| 3.4            | Task 4 – Pre-award Services.....                                   | 3-9         |
| 3.4.1          | Pre-Bid Conference.....  | 3-10        |
| 3.4.2          | Addenda.....   | 3-10        |
| 3.4.3          | Bid Review.....  | 3-10        |
| <b>4.0</b>     | <b>PROJECT MANAGEMENT.....</b>                                     | <b>4-1</b>  |
| 4.1            | Project Schedule and Key Milestones.....                           | 4-1         |
| 4.2            | Project Management, Organization and Key Technical Personnel ..... | 4-1         |

**REMEDIAL DESIGN  
PROJECT MANAGEMENT WORK PLAN  
TRIMMER ROAD LANDFILL SITE  
TOWN OF PARMA, NEW YORK**

|            |   |            |
|------------|---|------------|
| <b>5.0</b> | <b>SITE-SPECIFIC QUALITY ASSURANCE<br/>AND QUALITY CONTROL PLAN .....</b> | <b>5-1</b> |
| <b>6.0</b> | <b>SITE-SPECIFIC HEALTH AND SAFETY PLAN .....</b>                         | <b>6-1</b> |
| <b>7.0</b> | <b>COMMUNITY AIR MONITORING PLAN.....</b>                                 | <b>7-1</b> |
| 7.1        | VOC Monitoring, Response Levels and Actions .....                         | 7-2        |
| 7.2        | Particulate Monitoring, Response Levels and Actions .....                 | 7-3        |
| <b>8.0</b> | <b>SCHEDULE 2.11s .....</b>   | <b>8-1</b> |

**List of Figures**

---

|     |   |     |
|-----|---|-----|
| 1-1 | Site Location Map .....                                     | 1-2 |
| 2-1 | Site Map .....  | 2-2 |
| 3-1 | Pre-Design Investigation Monitoring Well Location Map ..... | 3-3 |
| 4-1 | Project Schedule .....                                      | 4-2 |
| 4-2 | Project Team Organization Chart.....                        | 4-3 |
| 6-1 | Hospital Route Map .....                                    | 6-4 |

**List of Tables**

---

|     |  |     |
|-----|--|-----|
| 3-1 | Sampling Matrix.....                   | 3-4 |
| 5-1 | Summary of Monitoring Parameters ..... | 5-2 |

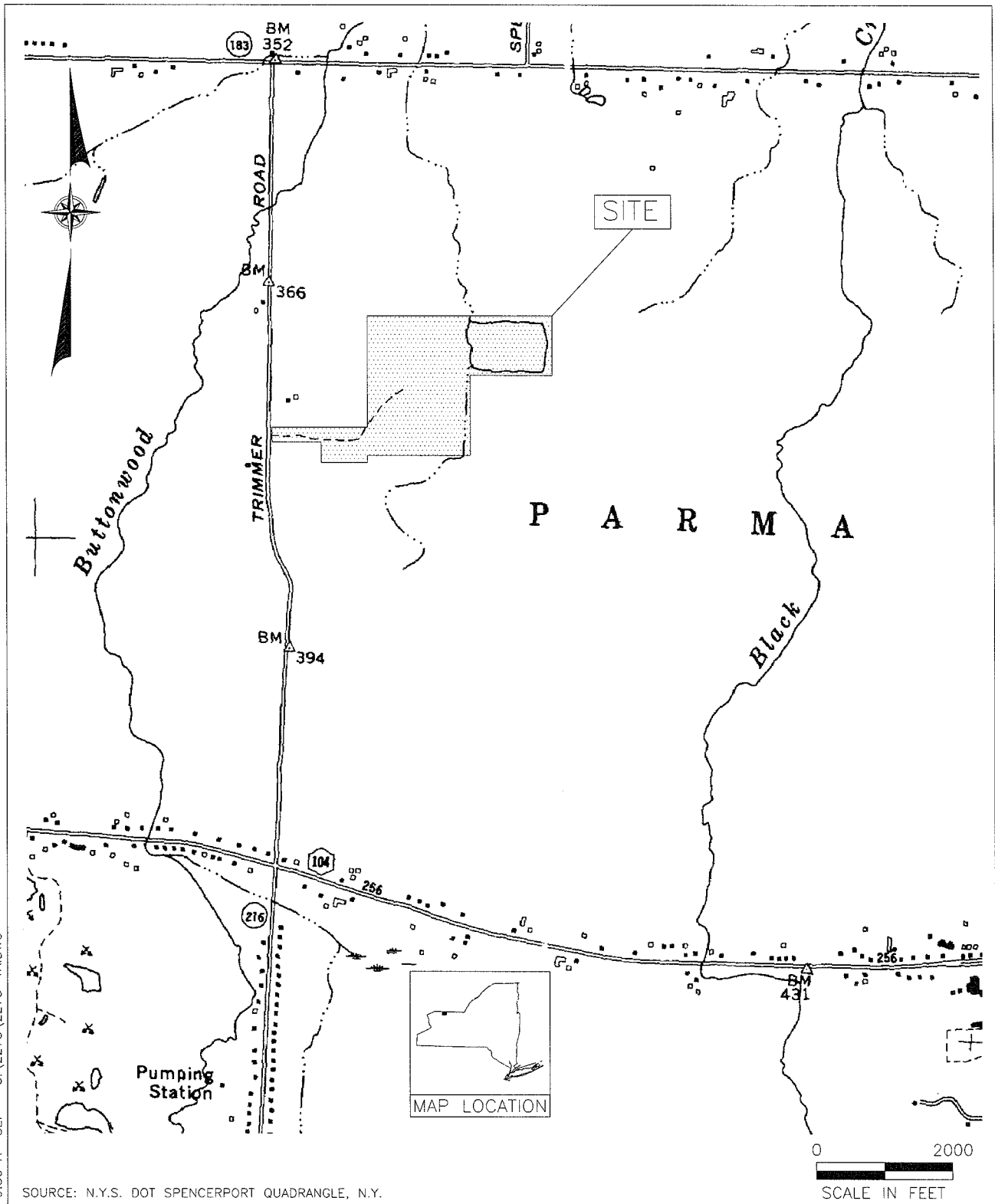
## 1.0 INTRODUCTION

As part of New York State's program to investigate and remediate hazardous waste sites, the New York State Department of Environmental Conservation (NYSDEC) has issued a work assignment to Dvirka and Bartilucci Consulting Engineers under its Superfund Standby Contract with NYSDCE to provide design services for remediation of the Trimmer Road Landfill Site located in the Town of Parma, Monroe County, New York (see Figure 1-1). The Trimmer Road Landfill Site is a Class 2 New York State Superfund site, Registry No. 8-28-012. The scope of work for this work assignment includes:

- Performance of a pre-design study;
- Preparation of an engineering design report, and plans and specifications; and
- Assistance in citizen participation activities and construction pre-award services.

The work for this site is being performed with funds allocated under the New York State Superfund Program. This document, entitled "Remedial Design Project Management Work Plan, Trimmer Road Landfill Site" has been prepared in accordance with NYSDCE guidance, and includes a detailed description of tasks, schedule and budget for the project. The work plan also identifies key project milestones and presents the project team organizational structure.

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Dvirka and Bartilucci  
Consulting Engineers  
A Division of William F. Cosulich Associates, P.C.

TRIMMER ROAD LANDFILL  
TOWN OF PARMA, NEW YORK

SITE LOCATION MAP

FIGURE 1-1

## **2.0 BACKGROUND INFORMATION**

### **2.1 Site Location and Description**

The site is located in a rural portion of the Town of Parma, Monroe County, New York, approximately 2 miles northwest of Parma Corners and 10 miles northwest of the City of Rochester. The site is on the east side of Trimmer Road about a mile north of the intersection of Trimmer Road with Route 104. The 60-acre site consists of an unlined landfill occupying 40 acres and includes a 10-acre pond (see Figure 2-1).

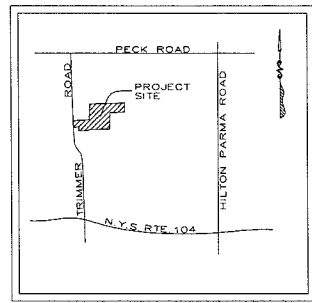
The site is surrounded by undeveloped land on all sides, although there are a number of residential properties within a half-mile radius. The on-site pond discharges to a tributary of Buttonwood Creek, which is a Class C stream that drains into Lake Ontario. There are drainage ditches around the perimeter of the site on portions of three sides. The ditches collect leachate seeps and surface runoff, and drain into the pond.

### **2.2 Site History**

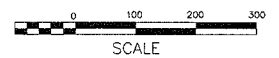
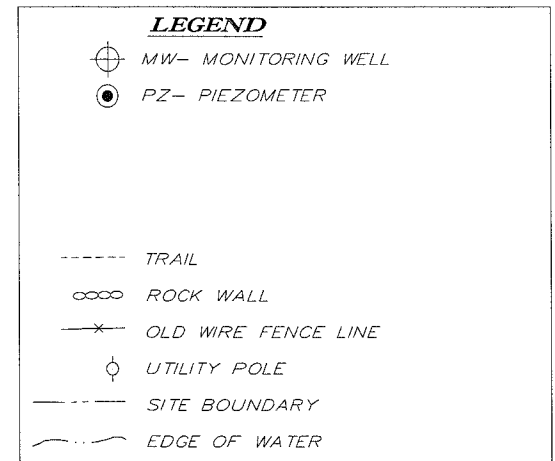
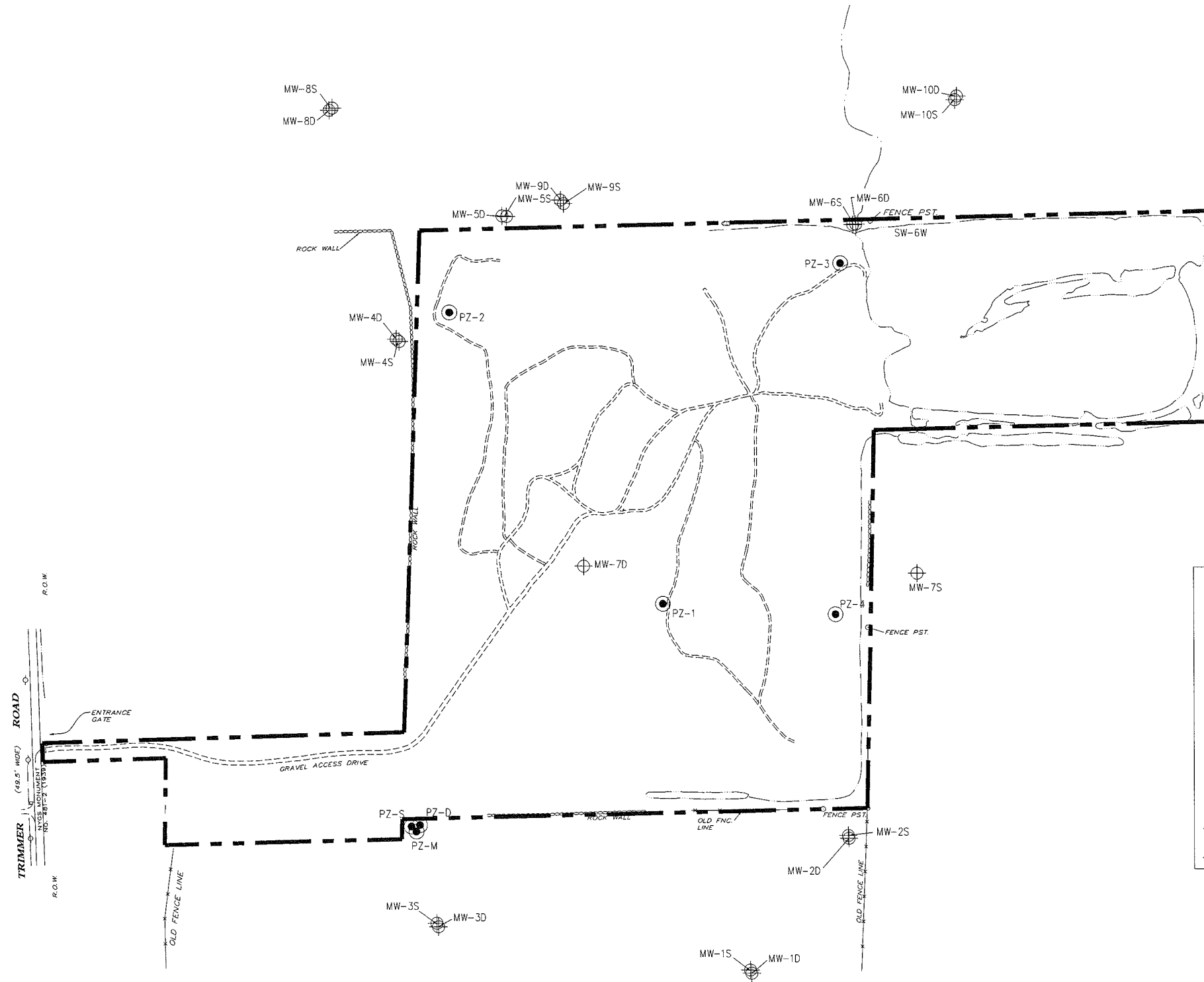
The Trimmer Road Landfill was a private disposal facility that accepted municipal waste from surrounding towns and industrial waste from local industries. The landfilling operations took place between 1952 and 1974. Some of the industries are known to have produced hazardous waste. While there is no direct evidence of disposal of hazardous waste at the site, chemical analyses of groundwater samples indicate the presence of volatile organic compounds (VOCs) in exceedance of groundwater standards.

A Phase I investigation conducted in 1983 identified sparse vegetation on the landfilled area, with debris protruding through the cover. A Phase II investigation conducted in 1986 found organic compounds and metal contamination in groundwater, and established a preliminary groundwater flow direction in the overburden to the northwest. Leachate from the landfill seeps was noted entering the pond on the northeast portion of the site through the perimeter drainage ditch.

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LOCATION SKETCH  
NOT TO SCALE



JUNE 7, 8, 9, 2000

TRIMMER ROAD LANDFILL  
TOWN OF PARMA, NEW YORK

SITE MAP

The site was delisted in 1992 due to the relatively low levels of contamination found in the Phase II study. Additional investigations in 1996 revealed the presence of site contamination in groundwater at levels that raised public health concerns due to the existence of downgradient private water supplies. Therefore, the site was re-listed as a Class 2 site in 1997.

A Remedial Investigation (RI) was conducted between October 1999 and January 2001. The purpose of the RI was to define the nature and extent of contamination resulting from previous activities at the site. The RI included the installation of soil borings and monitoring wells for analysis of soil and groundwater to determine the nature and extent of contaminants in the subsurface as well as determining physical properties of soil and hydrogeologic conditions. Surface water, sediment and leachate samples were collected to determine levels of contamination in the pond. A geophysical survey was conducted to identify any off-site leachate migration. A landfill gas survey was completed to evaluate landfill gas generation and look for possible contaminant hot spots.

The site is located south of Lake Ontario in the plain created by glacial Lake Iroquois. The landfilled portion of the property is a nearly square parcel of 40 acres with relief of 10 to 25 feet above the surrounding land surface. In the area surrounding the landfill the natural soil cover consists of two to seven feet of reddish brown, poorly sorted silt and fine sand. Bedrock beneath the site consists of the Queenston shale formation.

Groundwater around the landfill is found at an average depth of three-and-one-half feet below the ground surface in the wells screened at the base of the overburden. Groundwater is found at an average depth of five feet below the ground surface in wells screened in the bedrock. In general, groundwater flow rates are found to be slow and the flow direction is toward the northwest, in both overburden and bedrock.

The media of concern for the site are groundwater, leachate, and waste/subsurface soil. The area of highest VOC contamination in groundwater is located beneath the northwest corner of the landfill where the MW-4 cluster is located. Shallow well samples exhibited vinyl chloride at 140 ppb and 1,2-DCE at 300 ppb along with other VOCs above the groundwater standards.



The other area where VOCs exceeded standards is located directly north of the landfill where the MW-5 and 9 clusters are located. The other shallow wells and all the deeper wells did not show any contamination including the off-site wells located northwest (MW-8) and southeast (MW-10). Inorganics such as manganese and arsenic were detected above the standards.

Leachate was observed on the northern and eastern slopes of the landfill. Leachate samples from several locations contained VOCs, semivolatile organic compounds (SVOCs), and metals above standards, criteria, and guidance (SCG) values. Chemical analyses of one subsurface soil sample collected from a test pit did not show any exceedance for any SCG. Nonetheless, the waste is the only source for the contaminants found in groundwater and leachate. As indicated by the landfill gas survey, there were no exceedances of the SCG of 5% of the lower explosive limit for methane at any of the sampling points.

As described in the RI Report, many groundwater and leachate samples were collected at the site to characterize the nature and extent of contamination. The main categories of contaminants which exceed the remediation goals established for the site in groundwater are VOCs (vinyl chloride, 1,2-DCE, and benzene). The contaminants which exceed the remediation goals for the site in leachate are benzene and its derivatives. Several metals also exceeded the remediation goals in groundwater and leachate established for the site. Contaminants were released to the groundwater and leachate from the waste contained in the landfill.

### **3.0 SCOPE OF WORK**

The services to be provided by Dvirka and Bartilucci Consulting Engineers (D&B) include preparation of a remedial design work plan (Task 1); performance of a pre-design study (Task 2); preparation of plans and specifications (Task 3); and pre-award services (Task 4).

#### **3.1 Task 1 - Work Plan Preparation**

This task involves preparation of draft and final versions of this Project Management Work Plan (PMWP) for NYSDEC review and comment. This task also includes participation in a preliminary scoping meeting at the site with representatives of the NYSDEC, review of site background information provided by NYSDEC and development of a scope of work for the pre-design study. The following reports will be reviewed to gain a thorough understanding of the site conditions and components of the selected design.

1. *Remedial Investigation Report*, prepared by D&B, dated February 2001.
2. *Feasibility Study Report*, prepared by D&B, dated February 2001.
3. *Record of Decision*, prepared by NYSDEC, dated March 2001.

Following submittal of the draft work plan and the on-site scoping meeting, D&B will prepare a memorandum identifying any major technical issues that may influence the project and have not been identified in the work plan. The intent of this memorandum is to identify all major technical issues prior to the preliminary design submittal.

#### **3.2 Task 2 - Pre-Design Study**

A pre-design study will be performed prior to preparation of the remedial design. The purpose of the pre-design study will be to provide site-specific information to depict the extent of site groundwater contamination.

The pre-design field activities will consist of backhoe test pits, monitoring well installations, water level monitoring, and groundwater sampling and analysis. Figure 3-1

presents the study area and proposed sample locations. Table 3-1 summarizes samples to be collected and laboratory analyses. The following describes the pre-design study in detail.

### 3.2.1 Monitoring Well Installation and Development

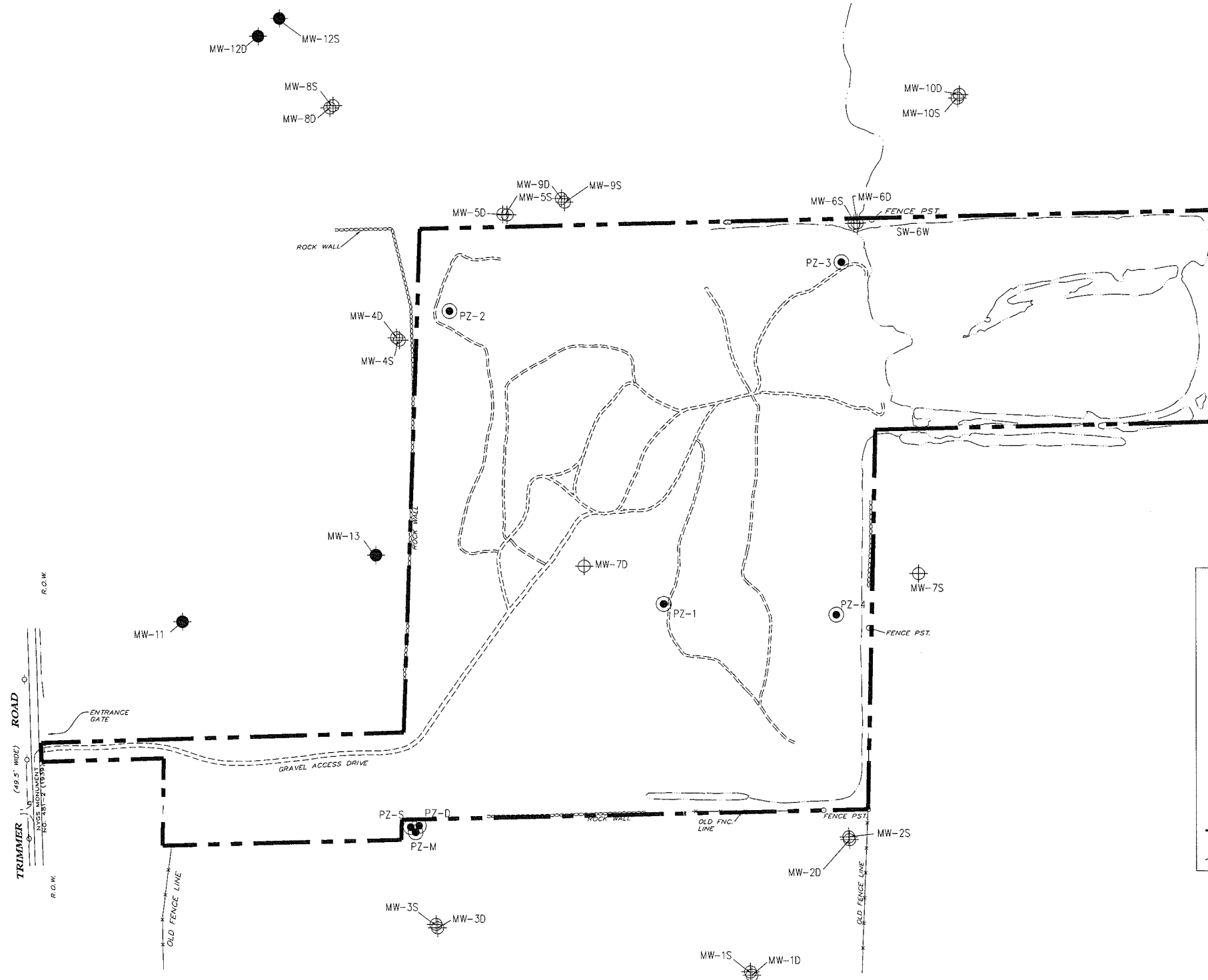
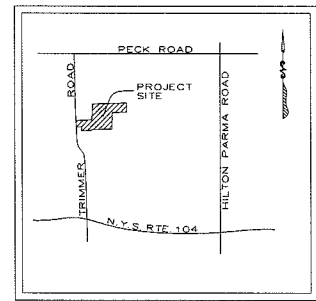
Four monitoring wells (MW-11, MW-12S, MW-12D and MW-13) will be installed to further delineate the nature and extent of groundwater contamination and the physical properties of aquifer materials. The monitoring wells will be located to further delineate the contaminant plume and to provide early detection if the plume migrates toward water supply wells.

The shallow wells are anticipated to be completed to a depth of approximately 15 feet and will be drilled using hollow stems augers. The wells will be completed at the base of the weathered bedrock unit and immediately on top of the competent bedrock unit. The wells will be constructed with 2-inch inside diameter (ID) schedule 40 PVC wire wrapped screen and 2-inch ID Schedule 40 PVC riser.

The deep wells are anticipated to be approximately 35 feet deep and will be drilled using hollow stems augers and HX coring. A 4-inch diameter carbon steel casing will be installed and grouted in place to an approximate depth of 20 feet below grade prior to coring. The wells will be completed in the upper 15 feet of the competent bedrock unit. The wells will be completed as open hole wells with no screen or riser.

Cuttings generated from the construction of the boreholes will be handled in accordance with NYSDEC TAGM No. 4032 "Disposal of Drill Cuttings", dated November 1989. In general, this TAGM allows for on-site disposal of cuttings as long as certain criteria as to location and cover of cuttings are met. In the event that soil cuttings exhibit elevated PID measurements, the soil will be drummed and staged for later disposal.

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TRIMMER ROAD LANDFILL  
TOWN OF PARMA, NEW YORK

# PRE-DESIGN INVESTIGATION MONITORING WELL LOCATION MAP

**Table 3-1**  
**TRIMMER ROAD LANDFILL SITE**  
**PRE-DESIGN STUDY**  
**SAMPLING MATRIX**

| Program Element                       | Environmental Media | Sample Type/Depth                               | Equipment   | Number of Samples | Sample Analyses                  |
|---------------------------------------|---------------------|---|---|-------------------|----------------------------------|
| Groundwater Sampling                  | Groundwater         | At surface of water in well after purging well. | Disposable polyethylene bailer.                     | 10                | TCL VOCs, TAL Metals and Cyanide |
| Trip Blanks                           | Aqueous             | Distilled water.                                | Sample supplied by laboratory.                      | 1*                | TCL VOCs                         |
| Matrix Spike/ Matrix Spike Duplicates | Aqueous             | Groundwater (split of sample).                  | Sample container or disposable polyethylene bailer. | 1**               | TCL VOCs, TAL Metals and Cyanide |

\*One trip blank will accompany each shipment of aqueous samples requiring volatile organic compound analysis.

\*\*One MS/MSD for each media for every 20 samples collected or one every two weeks if fewer than 20 samples.

Note: No field blanks will be collected as per New York State Department of Environmental Conservation guidance.

Upon completion, the monitoring wells will be developed by surging and pumping. The monitoring wells will be developed until a turbidity of 50 nephelometric turbidity units (NTUs) is achieved or until field parameters, such as pH, specific conductance, turbidity and temperature, have stabilized. In the case of monitoring wells drilled using water as a lubricant (e.g. bedrock coring or roller bit drilling), the amount of water lost to the formation during drilling will be removed during development. Development water will be disposed on-site.

### 3.2.2 Groundwater Elevation Monitoring and Sampling

Groundwater elevations in 24 monitoring wells, including the four new and 20 existing monitoring wells, will be measured manually during site activities. In addition, a rain gauge will be installed on-site to monitor precipitation. Water table and potentiometric surface maps will be developed based on synoptic water level measurements. These maps will be used to confirm groundwater flow direction interpretations made in the Remedial Investigation.

Following the completion of monitoring wells, one round of groundwater samples will be collected. Groundwater samples will be collected from 10 monitoring wells, including the four new and six existing monitoring wells. The six existing wells will be selected prior to sampling and subject to NYSDEC approval. The samples collected from the monitoring wells will be analyzed for Target Compound List (TCL) (VOCs), Target Analyte List (TAL) metals and cyanide.

### 3.2.3 Surveying

A site map with topographic survey information was completed as part of previous investigations. An AutoCAD drawing of the previous survey has been obtained by D&B and contains surveyed site locations and site topography at a contour interval of 2 feet. This AutoCAD drawing will serve as the base map.

Upon completion of fieldwork, a New York State-licensed surveyor will establish the locations and elevations of each of the new monitoring wells. Elevations of all well casings and the corresponding locations will be determined to within 0.01 feet based on the North America Vertical Datum (NAVD) 1988 and added to the base map. In addition, approximately 7 acres of land located between the site and Trimmer Road will be surveyed for topography and significant permanent features. This information will be added to the map prepared during the RI to provide topographic coverage of the proposed location of the phytoremediation plot northwest of the site.

#### 3.2.4 Data Usability Summary Report

Groundwater sampling results will be reviewed and tabulated. The data will be reviewed by D&B's Quality Assurance/Quality Control (QA/QC) Officer and a Data Usability Summary Report (DUSR) will be prepared. The DUSR will determine the adequacy of the data for environmental assessment and design purposes.

#### 3.2.5 Pre-Design Study Report

A Pre-Design Study Report will be prepared after the completion of the field activities and prior to preparation of the Engineering Design Report. The Pre-Design Study Report will be an interim document to be later included in the Engineering Design Report. The Pre-Design Study Report will include documentation of field activities, notation of any deviations from the work plan, a presentation of the data collected, interpretation of the data, and conclusions and recommendations appropriate to the site, including further investigation, if necessary, and special considerations for remedial design. Included in this task is a meeting with NYSDEC to review the report.

### **3.3 Task 3 – Plans and Specifications (Contract Documents)**

Draft and final specifications and drawings will be prepared for the purpose of competitively bidding the remedial construction in conformance with the NYSDEC Standard Contract Documents. The design documents will conform to the selected remedy in the Record

of Decision, and will conform with New York State laws, rules, regulations and guidelines. As noted below, this task includes optional items that may be conducted at the request of the NYSDEC.

The specifications will contain contractor submittal requirements, including preparation of a site-specific sampling and analysis plan (SAP), quality assurance/quality control (QA/QC) plan, and a site-specific health and safety plan (HASP) and specifications for mobilization/demobilization, site restoration and site security. In addition, the Contract Documents will contain a bid schedule, estimated quantities for each bid item, and a maximum time period for substantial completion and final completion.

The design documents will specify requirements for the following:

- Clearing and grubbing
- Grading plans for the evapotranspiration test plots and the phytoremediation area
- Soil for the evapotranspiration test plots and phytoremediation area
- Variety of trees to be planted for the evapotranspiration test plots and the phytoremediation area
- The dimensions and locations for the evapotranspiration test plots and the phytoremediation area
- Cross -section of the evapotranspiration test plots and phytoremediation area
- Parameters to be used for monitoring the effectiveness of the evapotranspiration test plots and phytoremediation area
- Locations and details for construction of new monitoring wells (as required)
- Monitoring and maintenance of the evapotranspiration test plots and phytoremediation area and
- Noise, odor, dust and soil erosion controls.

### 3.3.1 Preliminary Design Submittal

The preliminary design submittal will consist of preliminary drawings, and an outline of the specifications and will be submitted to the Department when the design is approximately 30% complete. The preliminary drawing set will include a title sheet, index of drawings with



symbols and abbreviations, existing conditions plan, preliminary grading plans showing the locations of the evapotranspiration test plots and phytoremediation plantings and preliminary cross sections for the evapotranspiration test plots and phytoremediation area. Seven copies of the preliminary design package will be provided to NYSDEC for review and comment.

Support for the design of the evapotranspiration test plot and phytoremediation buffer will be provided by a subconsultant with knowledge and experience with the design and installation of similar projects. The subconsultant will coordinate with D&B and provide a design and specifications report for the installation of trees, operation and maintenance of the test plots and evaluation of the performance of the test plots. D&B will incorporate this design into the overall site design and specifications.

Supporting documentation will be summarized in a letter report. The letter report will also identify potentially impacted property owners and parties with property rights, and include an updated property tax map (provided by the Town of Parma), a preliminary list of temporary and permanent easements, rights-of-way and permits necessary to perform the remediation, and identification of non-property permits with which the remediation must be in substantial compliance. It is assumed that NYSDEC will obtain the necessary permits, access agreements or easements.

### 3.3.2 Intermediate Design Submittal

The intermediate design submittal is an optional task as outlined in the work assignment. If requested by the NYSDEC, an additional draft of the plans and specifications will be submitted when the intermediate design is complete. The estimated cost for this work assignment (see Section 8) does not include pricing for Intermediate Design.

### 3.3.3 Pre-Final and Final Plans and Specifications

Upon completion of the design documents, seven copies of the pre-final plans, specifications and design report will be provided to NYSDEC for review. Each copy will

include a complete set of design drawings, a complete specifications package, bid forms, and NYSDEC Standard Contract Documents. In addition, a Limited Site Data Summary Report will be prepared. This report will describe site conditions and provide analytical data to assist bidders. In addition, a letter report which describes the major elements of the project, the basis of design, supporting data, documentation, design calculations, assumptions and uncertainties will be submitted with the pre-final design package.

NYSDEC comments will be incorporated into the final plans and specifications. After approval of the final plans and specifications, 75 copies of the Contract Documents and the Limited Site Data Report will be provided to the NYSDEC. In addition, an electronic copy in Portable Document Format (PDF) will be provided. The final plans and specifications will be sealed and signed by a professional engineer licensed to practice in New York State.

#### 3.3.4 Project Cost Estimate

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

### **3.4 Task 4 - Pre-award Services**

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

#### 3.4.1 Pre-Bid Conference

D&B will attend and assist the NYSDEC with an on-site pre-bid conference and site walkover. D&B will prepare and submit meeting minutes for the pre-bid conference and respond to technical questions regarding the plans and specifications.

#### 3.4.2 Addenda

D&B will prepare written responses to questions raised at the pre-bid conference, and any necessary addenda to the plans and specifications for the timely transmittal by the NYSDEC to the prospective bidders. D&B will provide up to 75 copies of addenda to the NYSDEC for distribution to the bidders. For budget purposes, it is assumed that one addendum will be prepared.

#### 3.4.3 Bid Review

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

## **4.0 PROJECT MANAGEMENT**

### **4.1 Project Schedule and Key Milestones**

The schedule for this project is provided in Figure 4-1. Key milestones are identified in order to monitor work progress. Specific deadlines for completion of tasks and subtasks are established throughout the project to ensure timely completion of work. The following is the list of the primary milestones for this project:

1. Submittal of Draft Project Management Work Plan
2. Submittal of Draft Pre-Design Study Report
3. Submittal of Draft Engineering Design Report
4. Submittal of Preliminary Draft Plans and Specifications – 30 percent
5. Optional - Submittal of Intermediate Draft Plans and Specifications – 60 percent
6. Submittal of Final Plans and Specifications, and Final Construction Cost Estimate

### **4.2 Project Management, Organization and Key Technical Personnel**

Dvirka and Bartilucci Consulting Engineers will be the prime consultant responsible for this work assignment. The following subcontractors will be used on the project for the noted services:

- Parratt-Wolff, Inc. –Monitoring Well Installation
- Om Popli, Inc. (WBE) – Surveying
- Mitkem Corporation (MBE) – Sample Analyses
- Ecolotree – Test Plot and Phytoremediation Area Design Support
- Ecologic (WBE) – Field Assistance
- Jamaica Blueprint Co., Inc. (WBE) – Reproduction

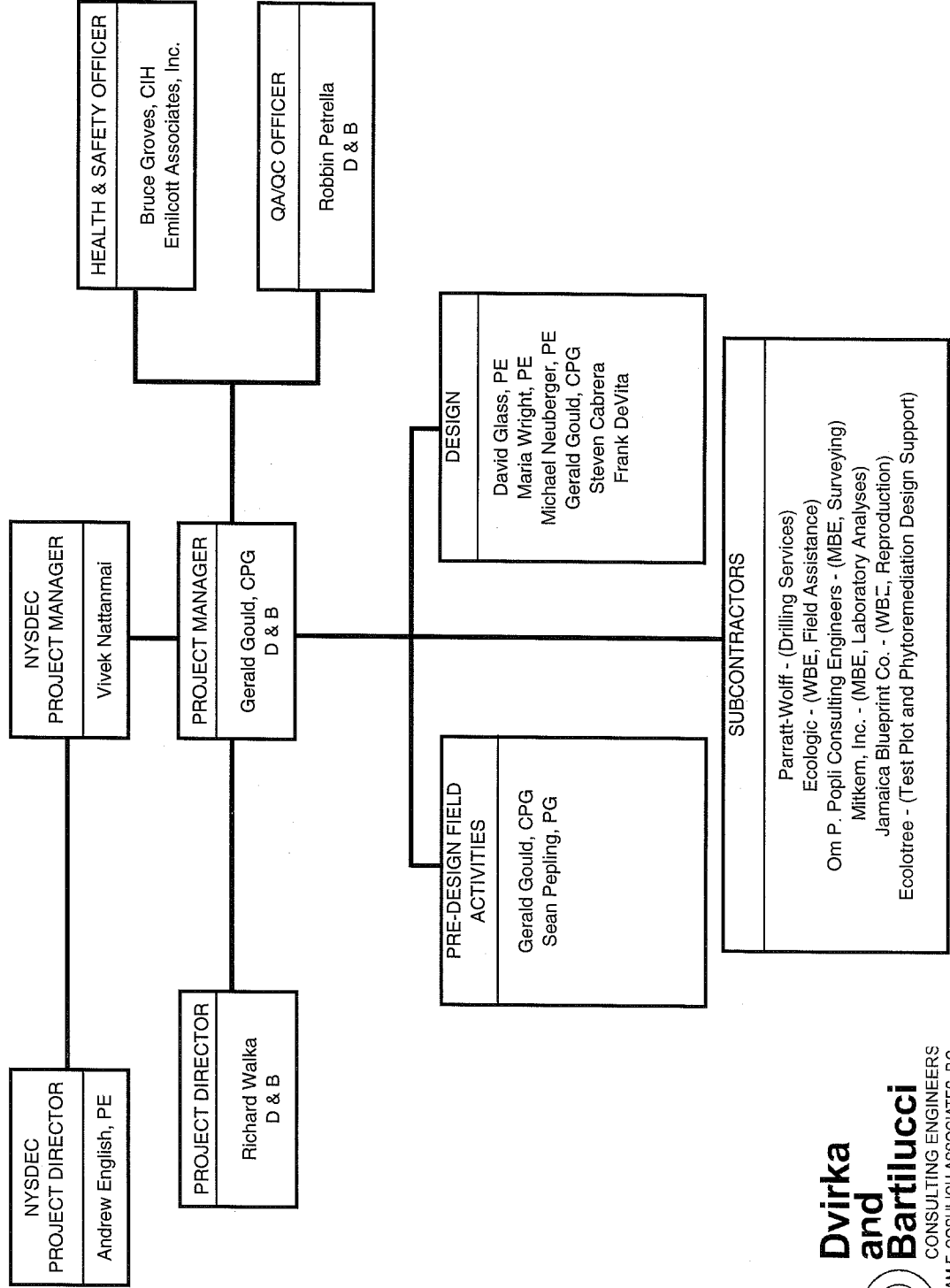
**Figure 4-1  
Project Schedule  
Trimmer Road Site**

| Item  | Action   | Start Date       | Duration (weeks) | Completion Date  |
|---|--|------------------|------------------|------------------|
| <b>TASK 1 - WORK PLAN DEVELOPMENT</b>       |  |                  |                  |                  |
| 1   | Issue Work Assignment                            |                  | (time zero)      | 6/28/04          |
| 2   | Scoping Session                                  |                  | 3                | 7/21/04          |
| 3   | Submission of Draft Project Management Work Plan |                  | 5                | 8/23/04          |
| 4   | NYSDEC Review                                    |                  | 4                | 9/20/04          |
| 5   | Site Visit                                       |                  |                  | 9/13/04          |
| 6   | Submission of Final Project Management Work Plan |                  | 1                | 9/27/04          |
| 7   | Notice to Proceed                                |                  | 2                | 10/11/04         |
| <b>TASK 2 - PRE-DESIGN FIELD ACTIVITIES</b> |  | 10/11/04         |                  |                  |
| 8   | Field Work                                       |                  | 3                | 11/1/04          |
| 9   | Draft Pre-design Field Activities Report         |                  | 6                | 12/13/04         |
| 10  | NYSDEC Review                                    |                  | 4                | 1/10/05          |
| <b>TASK 3 - PLANS &amp; SPECIFICATIONS</b>  |  | 12/13/04         |                  |                  |
| 11  | Preliminary Design (30% Design)                  |                  | 10               | 2/21/05          |
| 12  | NYSDEC Review                                    |                  | 2                | 3/7/05           |
| 13  | Pre-Final and Final Design and Bid Estimate      |                  | 10               | 5/16/05          |
| 14  | NYSDEC Review                                    |                  | 2                | 5/30/05          |
| 15  | Final Bid Package                                |                  | 4                | 6/27/05          |
| <b>TASK 4 - PRE-AWARD SERVICES</b>          |  | to be determined |                  |                  |
| 16  | Pre-Bid Conference                               |                  |                  | to be determined |
| 17  | Addenda  |                  |                  | to be determined |
| 18  | Bid Review                                       |                  |                  | to be determined |

FIGURE 4-2

# PROJECT TEAM ORGANIZATION CHART

TRIMMER ROAD SITE  
OPERABLE UNIT 1 REMEDIAL DESIGN  
TOWN OF PARMA, NEW YORK



## **5.0 SITE-SPECIFIC QUALITY ASSURANCE AND QUALITY CONTROL PLAN**

Environmental sample analyses conducted for the Trimmer Road Landfill Pre-Design Investigation will be performed in accordance with D&B's corporate quality assurance and quality control (QA/QC) plan and the NYSDEC Analytical Services Protocol (ASP). Site-specific QA/QC information is provided below.

### **5.1 Sampling Program Design and Rationale**

- Ten groundwater samples will be collected from the site monitoring wells to determine groundwater quality.

In addition to the above, the following QA/QC samples will be collected.

- One aqueous matrix spike/matrix spike duplicate samples will be collected.
- One aqueous trip blank samples will be collected.

Table 5-1 presents a summary of the parameters/sample fractions to be analyzed together with the sample location, type of sample, sample matrix, number of samples, frequency of sample collection, type of sample container, method of preservation, holding time and analytical method.

**Table 5-1**  
**TRIMMER ROAD LANDFILL SITE**  
**SUMMARY OF MONITORING PARAMETERS**

| <u>Sample Location</u>                | <u>Sample Type</u>                      | <u>Sample Matrix</u> | <u>Sample Fraction</u>     | <u>Number of Samples</u> | <u>Frequency</u> | <u>Container Type/Size/No.</u>                      | <u>Sample Preservation</u>               | <u>Maximum Holding Time*</u>                             | <u>Analytical Method</u>                    |
|---------------------------------------|---|----------------------|----------------------------|--------------------------|------------------|---|--|--|---|
| Monitoring Well (24 monitoring wells) | Grab                                    | Groundwater          | Volatile Organic Compounds | 10                       | 1                | Glass/40 mL/2 ICHEM 300 or equivalent               | Cool to 4°C                              | .7 days for analysis                                     | 6/00 NYSDEC ASP<br>Method USEPA SOW OLMO4.2 |
|                                       | Grab                                    | Groundwater          | TAL Metals                 | 10                       | 1                | Plastic/1 liter/1 ICHEM 300 or equivalent           | HNO <sub>3</sub> to pH <2<br>Cool to 4°C | 26 days for Hg analysis, 6 months for analysis of others | 6/00 NYSDEC ASP<br>Method USEPA SOW ILMO4.0 |
|                                       | Grab                                    | Groundwater          | Cyanide                    | 10                       | 1                | Plastic/500 mL/1 ICHEM 300 or equivalent            | NaOH to pH>12<br>Cool to 4°C             | 12 days for analysis                                     | 6/00 NYSDEC ASP<br>Method 335.2             |
| Site/Study Area                       | Matrix Spike and Matrix Spike Duplicate | Groundwater          | Volatile Organic Compounds | 1**                      | 1                | Glass/40 mL/2 ICHEM 300 or equivalent               | Cool to 4°C                              | 7 days for analysis                                      | 6/00 NYSDEC ASP<br>Method USEPA SOW OLMO4.2 |
|                                       | Matrix Spike and Matrix Spike Duplicate | Groundwater          | TAL Metals                 | 1**                      | 1                | Plastic/1 liter/1 ICHEM 300 or equivalent           | HNO <sub>3</sub> to pH <2<br>Cool to 4°C | 26 days for Hg analysis, 6 months for analysis of others | 6/00 NYSDEC ASP<br>Method USEPA SOW ILMO4.0 |
|                                       | Matrix Spike and Matrix Spike Duplicate | Groundwater          | Cyanide                    | 1**                      | 1                | Plastic/500 mL/1 ICHEM 300 or equivalent            | NaOH to pH>12<br>Cool to 4°C             | 12 days for analysis                                     | 6/00 NYSDEC ASP<br>Method 335.2             |
| Site/Study Area                       | Trip Blank                              | Water                | Volatile Organics          | 1**                      | 1                | Glass, clear/40 mL/2 ICHEM 300 series or equivalent | Cool to 4°C                              | 7 days for analysis                                      | 6/00 NYSDEC ASP<br>Method USEPA SOW OLMO4.2 |

\*Holding times based upon VTSR (Verified Time of Sample Receipt).

\*\*One set of MS/MSD and trip blanks based upon collection of groundwater samples during one phase of activities.



## 6.0 SITE-SPECIFIC HEALTH AND SAFETY PLAN

All work conducted at the Trimmer Road Landfill site will be performed in accordance with D&B's Corporate Health and Safety program. The following site specific information supplements the Corporate Health and Safety Plan.

|                                |   |
|--------------------------------|---|
| Site Name:                     | <u>Trimmer Road Landfill Site</u>                       |
| Address:                       | <u>Trimmer Road</u>                                     |
|                                | <u>Parma, New York</u>                                  |
| Telephone:                     | <u></u>   |
| Dates of Field Investigations: | <u>To Be Determined – Fall 2004</u>                     |
| Entry Objectives:              | <u>Well installations and groundwater sampling for</u>  |
|                                | <u>evaluation of site hydrogeologic characteristics</u> |

|   |                    |                     |
|---|--------------------|---------------------|
| Site Organization Structure:              | <u>Name</u>        | <u>Phone</u>        |
| Project Director:                         | <u>R. Walka</u>    | <u>516-364-9890</u> |
| Project Manager:                          | <u>G. Gould</u>    | <u>315-437-1142</u> |
| Health and Safety Officer (HSO)           | <u>B. Groves</u>   | <u>973-765-0991</u> |
| Field Operations<br>Manager/Alternate HSO | <u>S. Pepling</u>  | <u>315-437-1142</u> |
| Field Team Staff:                         | <u>J. Milligan</u> | <u>516-364-9890</u> |

|                 |                     |              |
|-----------------|---------------------|--------------|
| Subcontractors: | YEC, Inc.           | 914-268-3203 |
|                 | Parratt-Wolff, Inc. | 315-437-1429 |
|                 | MITKEM Corporation  | 401-732-4300 |
|                 | Ecologic            | 315-655-8305 |

|                     |                               |
|---------------------|-------------------------------|
| Medical Assistance: |                               |
| Physician:          | Industrial Medical Associates |
| Address:            | 961 Canal Street              |
|                     | Syracuse, NY 13210            |
| Telephone:          | 315-478-1977                  |

|                   |   |
|-------------------|---|
| Name of Hospital: | Lakeside Memorial Hospital, Brockport, New York |
| Telephone:        | 585-395-6095                                    |

Directions:

From the site, turn left onto Trimmer Road and proceed south.

Turn right (west) onto Route 104 and travel for about 5.3 miles.

Turn left (south) onto Route 19 and travel for about 1.1 miles.

Turn right onto West Avenue to Lakeside Hospital.

Emergency Telephones:

| Agent/Facility        | Telephone    | Emergency Number |
|-----------------------|--------------|------------------|
| EMS - Ambulance       | 585-392-8601 | 911              |
| Police Department     | 585-428-5432 | 911              |
| Fire Department       | 585-392-8601 | 911              |
| Hospital              | 585-395-6095 | --               |
| Poison Control Center | 800-252-5655 | --               |

Additional site-related information (including, special hazards, site control, waste storage and disposal, personal protective equipment, decontamination area location, special engineering controls, etc.).

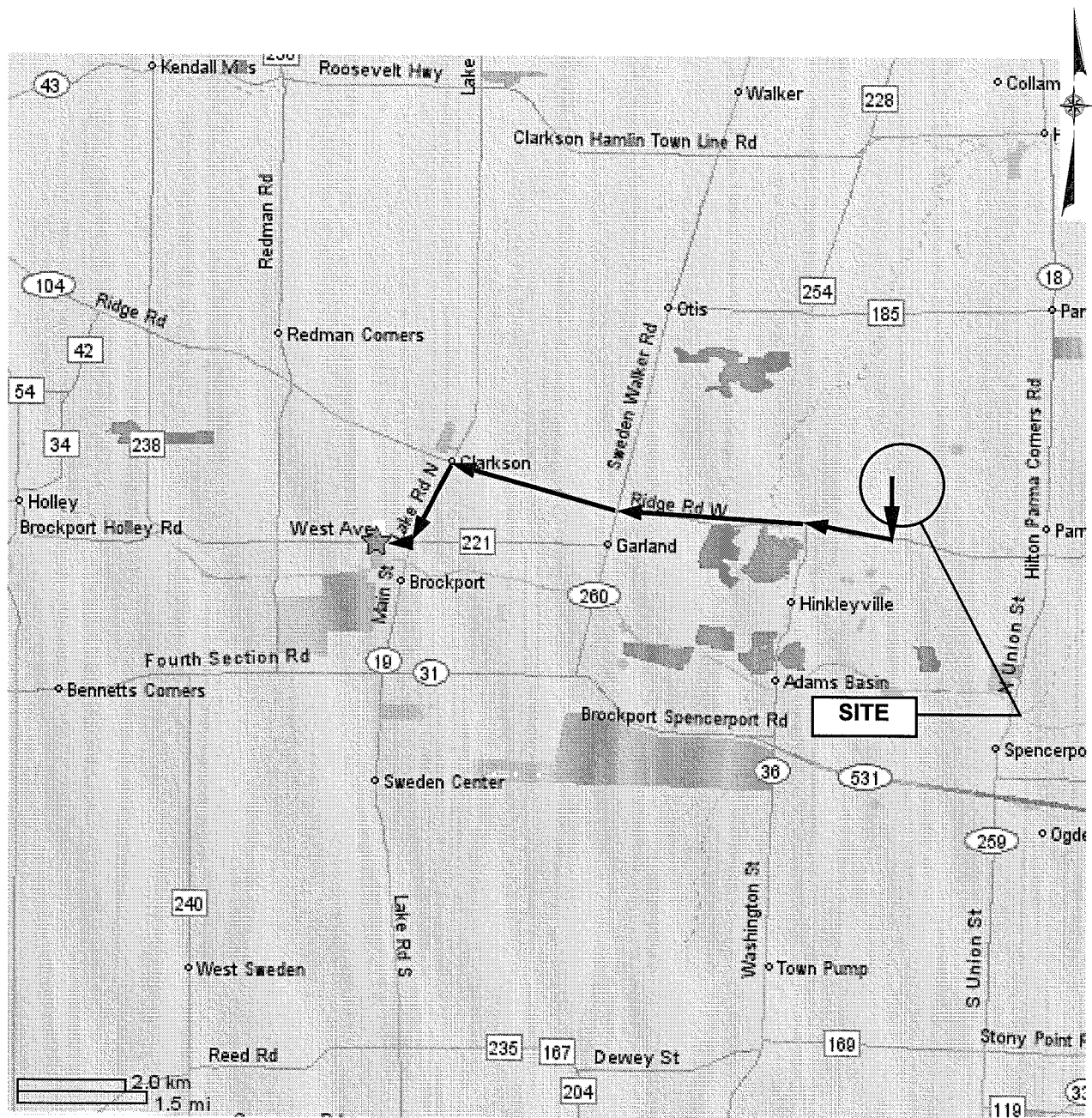
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TRIMMER ROAD LANDFILL SITE  
TOWN OF PARMA, NEW YORK

## HOSPITAL ROUTE MAP

## 7.0 COMMUNITY AIR MONITORING PLAN

Community air monitoring will be conducted during the Pre-Design Investigation by real-time air monitoring for volatile organic compounds (VOCs) and particulate levels at the perimeter of the work area. Based on existing environmental data and the work tasks to be performed in this work plan, the likelihood for the air quality of the general public being affected by Remedial Design activities is low. The plans and specifications portion of the remedial design will identify air monitoring concerns and specifically address community air monitoring requirements during the implementation of remediation and require contractor bid packages to include a Community Air Monitoring Plan (CAMP).

The CAMP for this Pre-Design Investigation requires real-time monitoring for VOCs and particulates (i.e. dust) at the downwind perimeter of each designated work area when certain activities are in progress at the site. This CAMP is not intended for use in establishing action levels for worker respiratory protection. Rather, its intent is to provide a measure of protection for the downwind community (i.e. off-site receptors including residences and businesses and on-site workers not directly involved with the subject work activities) from potential airborne contaminant releases as a direct result of investigative and remedial work activities. The action levels specified herein require increased monitoring, corrective actions to abate emissions, and/or work shutdown. Additionally, the CAMP helps to confirm that work activities do not spread contamination off-site through the air.

Reliance on the CAMP should not preclude simple, common-sense measures to keep VOCs, dust, and odors at a minimum around the work areas.

Continual monitoring will be required for all ground intrusive activities and during the pre-design investigation activities. Ground intrusive activities include, but are not limited to, soil/waste excavation and handling, test pitting or trenching, and the installation of soil borings or monitoring wells.

Periodic monitoring for VOCs will be required during non-intrusive activities such as the collection of surface soil and sediment samples or the collection of groundwater samples from existing monitoring wells. "Periodic" monitoring during sample collection will consist of taking a measurement upon arrival at a sample location, monitoring while opening a well cap or overturning soil, monitoring during well baling/purging, and taking a measurement prior to leaving a sample location. In some instances, depending upon the proximity of potentially exposed individuals, continual monitoring may be required during sampling activities. Examples of situations requiring air monitoring include groundwater sampling at wells in or near a public roadway, in the midst of adjacent properties, or adjacent to a school or residence.

## **7.1 VOC Monitoring, Response Levels and Actions**

VOCs will be monitored at the downwind perimeter of the immediate work area (i.e. the exclusion zone) on a continual basis or as otherwise specified. Upwind concentrations will be measured at the start of each workday and periodically thereafter to establish background conditions. The monitoring work will be performed using equipment appropriate to measure the types of contaminants known or suspected to be present. The equipment will be calibrated at least daily for the contaminant(s) of concern or for an appropriate surrogate. The equipment will be capable of calculating 15-minute running average concentrations, which will be compared to the levels specified below.

- If the ambient air concentration of total organic vapors at the downwind perimeter of the work area or exclusion zone exceeds 5 parts per million (ppm) above background for the 15-minute average, work activities must be temporarily halted and monitoring continued. If the total organic vapor level readily decreases (per instantaneous readings) below 5 ppm over background, work activities can resume with continued monitoring.
- If total organic vapor levels at the downwind perimeter of the work area or exclusion zone persist at levels in excess of 5 ppm over background but less than 25 ppm, work activities must be halted, the source of vapors identified, corrective actions taken to abate emissions, and monitoring continued. After these steps, work activities can resume provided that the total organic vapor level 200 feet downwind of the exclusion zone or half the distance to the nearest potential receptor or residential/commercial structure, whichever is less - but in no case less than 20 feet, is below 5 ppm over background for the 15-minute average.

- If the organic vapor level is above 25 ppm at the perimeter of the work area, activities must be shutdown.

All 15-minute readings will be recorded and will be available for State (NYSDEC and NYSDOH) personnel to review. Instantaneous readings, if any, used for decision purposes will also be recorded.

## **7.2 Particulate Monitoring, Response Levels and Actions**

Particulate concentrations will be monitored continually at the upwind and downwind perimeters of the exclusion zone at temporary particulate monitoring stations. The particulate monitoring will be performed using real-time monitoring equipment capable of measuring particulate matter less than 10 micrometers in size (PM-10) and capable of integrating over a period of 15 minutes (or less) for comparison to the airborne particulate action level. The equipment must be equipped with an audible alarm to indicate exceedance of the action level. In addition, fugitive dust migration should be visually assessed during all work activities.

- If the downwind PM-10 particulate level is 100 micrograms per cubic meter ( $\text{mcg}/\text{m}^3$ ) greater than background (upwind perimeter) for the 15-minute period or if airborne dust is observed leaving the work area, then dust suppression techniques must be employed. Work may continue with dust suppression techniques provided that downwind PM-10 particulate levels do not exceed  $150 \text{ mcg}/\text{m}^3$  above the upwind level and provided that no visible dust is migrating from the work area.
- If, after implementation of dust suppression techniques, downwind PM-10 particulate levels are greater than  $150 \text{ mcg}/\text{m}^3$  above the upwind level, work must be stopped and a re-evaluation of activities initiated. Work can resume provided that dust suppression measures and other controls are successful in reducing the downwind PM-10 particulate concentration to within  $150 \text{ mcg}/\text{m}^3$  of the upwind level and in preventing visible dust migration.

All readings will be recorded and be available for State (DEC and DOH) personnel to review.

## **8.0 SCHEDULE 2.11s**



Schedule 2.11 (a)  
Summary of Work Assignment Price  
Trimmer Road Site  
Summary  
Work Assignment Number D003600-42

|    |  |          |
|----|--|----------|
| 1. | Direct Salary Costs (Schedules 2.10 (a) and 2.11(b)) | \$44,817 |
| 2. | Indirect Costs (Schedule 2.10 (g))                   | \$70,945 |
| 3. | Direct Non-Salary Costs (Schedules 2.11 (c)and (d))  | \$6,871  |

Subcontract Costs

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

|    | <u>Name of Subcontractor</u>           | <u>Services To Be Performed</u> | <u>Subcontract Price</u> |
|----|--|---------------------------------|--------------------------|
|    | A. Om Popli, Inc. (MBE)                | Survey new points               | \$1,120                  |
|    | B. Om Popli, Inc. (MBE)                | Additional Contours             | \$2,850                  |
|    | C. Ecolotree                           | Design Support                  | \$29,534                 |
|    | D. Ecologic (WBE)                      | Field assistance                | \$1,226                  |
| 4. | Total Cost-Plus-Fixed-Fee Subcontracts |                                 | <hr/> \$34,730           |

Unit Price Subcontracts (Schedules 2.11(f))

|    | <u>Name of Subcontractor</u>                         | <u>Services To Be Performed</u> | <u>Subcontract Price</u> |
|----|--|---------------------------------|--------------------------|
|    | A. Parratt-Wolff, Inc.                               | Well Installation               | \$11,250                 |
|    | B. MITKEM, Inc. (MBE)                                | Sample Analysis                 | \$6,870                  |
|    | C. Jamaica Blue Print Co. (WBE)                      | Reproduction                    | \$8,832                  |
|    | D.   |                                 |                          |
| 5. | Total Unit Price Subcontracts                        |                                 | <hr/> \$26,952           |
| 6. | Subcontract Management Fee                           |                                 | \$394                    |
| 7. | Total Subcontract Costs (lines 4 + 5 + 6)            |                                 | \$62,076                 |
| 8. | Fixed Fee (Schedule 2.10 (h))                        |                                 | \$9,724                  |
| 9. | Total Work Assignment Price (lines 1 + 2 + 3 + 7 +8) |                                 | \$194,433                |

SCHEDULE 2.11 (b)  
SUMMARY

Trimmer Road Site

Work Assignment Number D003600-42

| Average NSPE<br>Wage Rates | IX      | VIII    | VII     | VI      | V        | IV      | III     | II      | I       | TOTAL<br>HOURS |
|----------------------------|---------|---------|---------|---------|----------|---------|---------|---------|---------|----------------|
| as of July 1, 2004         | \$67.58 | \$63.31 | \$55.03 | \$44.32 | \$37.24  | \$31.46 | \$28.55 | \$24.78 | \$19.77 |                |
| as of July 1, 2005         | \$69.61 | \$65.21 | \$56.68 | \$45.65 | \$38.36  | \$32.40 | \$29.41 | \$25.52 | \$20.36 |                |
| Task 1- Work Plan Develop. | 2       | 30      | 30      | 36      | 30       |         | 0       | 10      |         | 108            |
| Task 2- Pre-Design Field   | 4       |         | 0       | 36      | 164      |         | 8       | 14      |         | 226            |
| Task 3- Plans and Specif.  | 9       |         | 32      | 68      | 341      |         | 184     | 154     |         | 788            |
| Task 4- Pre-Award Services | 3       |         | 1       | 16      | 48       |         | 40      | 14      |         | 122            |
| Task 5- Not Used           | 0       |         | 0       | 0       | 0        |         | 0       | 0       |         | 0              |
| Subtotal 2004 Hours        | 15      | 0       | 62      | 140     | 535      | 0       | 192     | 178     | 0       | 1122           |
| Subtotal 2005 Hours        | 3       | 0       | 1       | 16      | 48       | 0       | 40      | 14      | 0       | 122            |
| Total Hours                | 18      | 0       | 63      | 156     | 583      | 0       | 232     | 192     | 0       | 1244           |
| Total Direct<br>Labor Cost | \$1,223 | \$0     | \$3,469 | \$6,935 | \$21,765 | \$0     | \$6,658 | \$4,768 | \$0     | \$44,817       |

SCHEDULE 2.11 (b)-1  
SUMMARY

Trimmer Road Site

Work Assignment Number D003600-42

| Average NSPE<br>Wage Rates | IX      | VIII    | VII     | VI      | V       | IV      | III     | II      | I       | TOTAL<br>HOURS |
|----------------------------|---------|---------|---------|---------|---------|---------|---------|---------|---------|----------------|
| as of July 1, 2004         | \$67.58 | \$63.31 | \$55.03 | \$44.32 | \$37.24 | \$31.46 | \$28.55 | \$24.78 | \$19.77 |                |
| as of July 1, 2005         | \$69.61 | \$65.21 | \$56.68 | \$45.65 | \$38.36 | \$32.40 | \$29.41 | \$25.52 | \$20.36 |                |
| Task 1- Work Plan Develop. | 2       | 0       | 0       | 3       | 2       | 0       | 0       | 4       | 0       | 11             |
| Task 2- Pre-Design Field   | 0       | 0       | 0       | 6       | 4       | 0       | 0       | 14      | 0       | 24             |
| Task 3- Plans and Specif.  | 0       | 0       | 0       | 0       | 0       | 0       | 0       | 14      | 0       | 14             |
| Task 4- Pre-Award Services | 1       | 0       | 0       | 0       | 0       | 0       | 0       | 8       | 0       | 9              |
| Task 5- Not Used           | 0       | 0       | 0       | 0       | 0       | 0       | 0       | 0       | 0       | 0              |
| Subtotal 2004 Hours        | 2       | 0       | 0       | 9       | 6       | 0       | 0       | 32      | 0       | 49             |
| Subtotal 2005 Hours        | 1       | 0       | 0       | 0       | 0       | 0       | 0       | 8       | 0       | 9              |
| Total Hours                | 3       | 0       | 0       | 9       | 6       | 0       | 0       | 40      | 0       | 58             |
| Total Direct Labor Cost    | \$205   | \$0     | \$0     | \$399   | \$223   | \$0     | \$0     | \$997   | \$0     | \$1,824        |

| ADMIN<br>ACTIVITY | REVIEW WORK ASSIGNMENT (WA) PROGRESS |     |     |     |   |     |     |     |                       |     |     |     |     |     | Program<br>Management |
|-------------------|--------------------------------------|-----|-----|-----|---|-----|-----|-----|-----------------------|-----|-----|-----|-----|-----|-----------------------|
|                   | Conduct Progress<br>Reviews          |     |     |     | Prepare Monthly<br>Report & Update<br>Schedules |     |     |     | MBE/WBE<br>Activities |     |     |     |     |     |                       |
|                   | VIII                                 | VII | VI  | V   | IV  | III | VII | VI  | V                     | IV  | III | II  | I   |     |                       |
| INSP              |                                      |     |     |     |   |     |     |     |                       |     |     |     |     |     |                       |
| TASK 1            |                                      |     | 1.0 |     |   |     |     |     | 1.0                   |     |     |     |     |     |                       |
| TASK 2            |                                      |     | 2.0 |     |   |     |     | 2.0 | 1.0                   |     |     |     |     |     |                       |
| TASK 3            |                                      |     |     |     |   |     |     |     |                       |     |     |     |     |     |                       |
| TASK 4            |                                      |     |     |     |   |     |     |     |                       |     |     |     |     |     |                       |
| TASK 5            |                                      |     |     |     |   |     |     |     |                       |     |     |     |     |     |                       |
| TOTAL             | 0.0                                  | 0.0 | 3.0 | 0.0 | 0.0   | 0.0 | 0.0 | 2.0 | 2.0                   | 0.0 | 0.0 | 0.0 | 0.0 | 1.0 |                       |
|                   |                                      |     |     |     |   |     |     |     |                       | 1.0 | 0.0 | 0.0 | 0.0 | 0.0 |                       |
|                   |                                      |     |     |     |   |     |     |     |                       |     |     |     |     |     |                       |
|                   |                                      |     |     |     |   |     |     |     |                       |     |     |     |     |     |                       |
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|                   |                                      |     |     |     |   |     |     |     |                       |     |     |     |     |     |                       |
|                   |                                      |     |     |     |   |     |     |     |                       |     |     |     |     |     |                       |
|                   |                                      |     |     |     |   |     |     |     |                       |     |     |     |     |     |                       |
|                   |                                      |     |     |     |   |     |     |     |                       |     |     |     |     |     |                       |
|                   |                                      |     |     |     |   |     |     |     |                       |     |     |     |     |     |                       |
|                   |                                      |     |     |     |   |     |     |     |                       |     |     |     |     |     |                       |
|                   |                                      |     |     |     |   |     |     |     |                       |     |     |     |     |     |                       |
|                   |                                      |     |     |     |   |     |     |     |                       |     |     |     |     |     |                       |
|                   |                                      |     |     |     |   |     |     |     |                       |     |     |     |     |     |                       |
|                   |                                      |     |     |     |   |     |     |     |                       |     |     |     |     |     |                       |
|                   |                                      |     |     |     |   |     |     |     |                       |     |     |     |     |     |                       |
|                   |                                      |     |     |     |   |     |     |     |                       |     |     |     |     |     |                       |
|                   |                                      |     |     |     |   |     |     |     |                       |     |     |     |     |     |                       |
|                   |                                      |     |     |     |   |     |     |     |                       |     |     |     |     |     |                       |
|                   |                                      |     |     |     |   |     |     |     |                       |     |     | </  |     |     |                       |

| ADMIN<br>ACTIVITY | Total Adm.<br>LOE (hrs) |      |     |    |   |    |     |    |   |
|-------------------|-------------------------|------|-----|----|---|----|-----|----|---|
|                   | IX                      | VIII | VII | VI | V | IV | III | II | I |
| INSP              |                         |      |     |    |   |    |     |    |   |
| TASK 1            | 2                       | 0    | 0   | 3  | 2 | 0  | 0   | 4  | 0 |
| TASK 2            | 0                       | 0    | 0   | 6  | 4 | 0  | 0   | 14 | 0 |
| TASK 3            | 0                       | 0    | 0   | 0  | 0 | 0  | 0   | 14 | 0 |
| TASK 4            | 1                       | 0    | 0   | 0  | 0 | 0  | 0   | 8  | 0 |
| TASK 5            | 0                       | 0    | 0   | 0  | 0 | 0  | 0   | 0  | 0 |
| TOTAL             | 3                       | 0    | 0   | 9  | 6 | 0  | 0   | 40 | 0 |

SCHEDULE 2.11 (C)  
DIRECT NON-SALARY COSTS  
Trimmer Road Site  
Work Assignment Number D003600-42

| ITEM                          | MAXIMUM<br>REIMBURSEMENT<br>RATE | UNIT            | ESTIMATED<br>NUMBER<br>OF UNITS | TOTAL<br>ESTIMATED<br>COSTS |
|-------------------------------|----------------------------------|-----------------|---------------------------------|-----------------------------|
| IN-HOUSE                      |                                  |                 |                                 |                             |
| Outside Services              | \$50.00                          | set             | 10                              | \$500                       |
| Express Mail                  | \$40.00                          | package         | 22                              | \$880                       |
| Level D Safety Equipment      | \$14.00                          | (\$/person/day) | 20                              | \$280                       |
| Level C Safety Equipment      | \$40.00                          | (\$/person/day) | 0                               | \$0                         |
| Level B Safety Equipment      | \$50.00                          | (\$/person/day) | 0                               | \$0                         |
| Meals                         | \$47.00                          | /day            | 10                              | \$470                       |
| Lodging                       | \$83.00                          | /day            | 10                              | \$830                       |
| TRAVEL                        |                                  |                 |                                 |                             |
| Air                           | \$500.00                         | roundtrip       | 2                               | \$1,000                     |
| Transportation (Personal Car) | \$0.375                          | mile            | 1550                            | \$581                       |
| Tolls                         | \$20.00                          | week            | 8                               | \$160                       |
| Car Rental                    | \$415.00                         | week            | 2                               | \$830                       |
| Gas                           | \$100.00                         | week            | 2                               | \$200                       |
| TOTAL DIRECT NON-SALARY COSTS |                                  |                 |                                 | \$5,731                     |

Schedule 2.11 (c)  
Direct Non-Salary Costs  
Trimmer Road Site  
Work Assignment Number D003600-42

Summary

| Item                             | Reimbursement Rate     | Task 1            | Task 2            | Task 3            | Task 4            | Task 5            | Total Est. No. of Units | Total Estimated Cost |
|----------------------------------|------------------------|-------------------|-------------------|-------------------|-------------------|-------------------|-------------------------|----------------------|
|                                  |                        | Est. No. of Units | Est. No. of Units | Est. No. of Units | Est. No. of Units | Est. No. of Units |                         |                      |
| A. Travel                        |                        |                   |                   |                   |                   |                   |                         |                      |
| 1. Meals                         | \$47 /day*             |                   | 10 \$470.00       | \$0.00            | \$0.00            | \$0.00            | 10                      | \$470.00             |
| 2. Lodging                       | \$83 /day              |                   | 10 \$830.00       | \$0.00            | \$0.00            | \$0.00            | 10                      | \$830.00             |
| 3. Air Travel                    | 500 /round trip        | 1 \$500.00        | \$0.00            | \$0.00            | \$0.00            | \$0.00            | 2                       | \$1,000.00           |
| 4. Transport. (Personal Car)     | \$0.375 /mile          | 300 \$112.50      | 1000 \$375.00     | \$0.00            | \$93.75           | \$0.00            | 1,550                   | \$581.25             |
| 5. Tolls                         | \$20.00 /trip          | 1 \$20.00         | 6 \$120.00        | \$0.00            | \$20.00           | \$0.00            | 8                       | \$160.00             |
| 6. Car Rental                    | \$415.00 /week         | \$0.00            | 2 \$830.00        | \$0.00            | \$0.00            | \$0.00            | 2                       | \$830.00             |
| 7. Gas                           | \$100.00 /week         | \$0.00            | 2 \$200.00        | \$0.00            | \$0.00            | \$0.00            | 2                       | \$200.00             |
| Subtotal (Travel)                |                        | \$632.50          | \$2,825.00        | \$0.00            | \$613.75          | \$0.00            | 0                       | \$0.00               |
| B. Miscellaneous (Expenses)      |                        |                   |                   |                   |                   |                   |                         |                      |
| 1. Outside Services**            | \$50.00 /set           | 2 \$100.00        | 4 \$200.00        | \$0.00            | \$200.00          | \$0.00            | 10                      | \$500.00             |
| 2. Express Mail                  | \$40.00 /package       | 2 \$80.00         | 4 \$160.00        | 4 \$160.00        | \$480.00          | \$0.00            | 22                      | \$880.00             |
| Subtotal (Misc. Expenses)        |                        | \$180.00          | \$360.00          | \$160.00          | \$680.00          | \$0.00            | 0                       | \$0.00               |
| C. Personal Protective Equipment |                        |                   |                   |                   |                   |                   |                         |                      |
| 1. Level D Safety Equipment      | \$14.00 (\$/pers./day) | \$0.00            | 20 \$280.00       | \$0.00            | \$0.00            | \$0.00            | 20                      | \$280.00             |
| 2. Level C Safety Equipment      | \$40.00 (\$/pers./day) | \$0.00            | \$0.00            | \$0.00            | \$0.00            | \$0.00            | 0                       | \$0.00               |
| 3. Level B Safety Equipment      | \$50.00 (\$/pers./day) | \$0.00            | \$0.00            | \$0.00            | \$0.00            | \$0.00            | 0                       | \$0.00               |
| Subtotal (Protective Equipment)  |                        | \$0.00            | \$280.00          | \$0.00            | \$0.00            | \$0.00            | 0                       | \$0.00               |
| TOTAL                            |                        | \$812.50          | \$3,465.00        | \$160.00          | \$1,293.75        | \$0.00            |                         | \$5,731.25           |

Footnote:  
In-house costs for computer services, postage, reproduction, printing and telephone are not allowable as direct non-salary costs. These costs should be included in the indirect cost pool used to determine the indirect cost percentage for the engineer.  
\* Maximum allowable rate for Monroe County, NY  
\*\* Includes photo finishing, reproduction and any other costs not associated with in-house capabilities.

SCHEDULE 2.11 (d) 1  
 EQUIPMENT PURCHASED UNDER THE CONTRACT  
 Trimmer Road Site  
 Work Assignment Number D003600-42  
 Summary

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

SCHEDULE 2.11 (d) 2  
EQUIPMENT CONSULTANT OWNED

Trimmer Road Site  
Work Assignment Number D003600-42  
Summary

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

Notes:

Usage Rate = Capital Recovery Rate + O&M rate

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



# SCHEDULE 2.11 (d) 3

## EQUIPMENT

### VENDOR RENTED

Trimmer Road Site

Work Assignment Number D003600-42

### Summary

| ITEM                      | MAXIMUM<br>REIMBURSEMENT<br>RATE | TIME<br>PERIOD | ESTIMATED<br>USAGE<br>(period of time) | ESTIMATED<br>USAGE COST<br>(Col. 2 X 3) |
|---------------------------|----------------------------------|----------------|--|---|
| Horiba U-22 Water checker | \$300                            | week           | 1                                      | \$300                                   |
| Photoionization Detector  | \$200                            | week           | 1                                      | \$200                                   |
| MiniTroll Data Logger     | \$225                            | week           | 0                                      | \$0                                     |
| Persitaltic Pump          | \$75.00                          | week           | 0                                      | \$0                                     |
| Air Sampling Pump         | \$50.00                          | week           | 0                                      | \$0                                     |
| Total                     |                                  |                |  | \$500                                   |

**SCHEDULE 2.11 (d) 4**  
**EXPENDABLE SUPPLIES**  
 Trimmer Road Site  
 Work Assignment Number D003600-42  
 Summary

| ITEM   | ESTIMATED QUANTITY | UNITS  | UNIT COST | TOTAL BUDGETED COST (COL. 2 X 3) |
|--|--------------------|--------|-----------|----------------------------------|
| Cell Phone   | 2                  | months | \$120.00  | \$240                            |
| Office supplies, field books, pens, pencils            | 1                  | each   | \$100.00  | \$100                            |
| Sampling Supplies- Ice, plastic bags, packing tape ... | 5                  | each   | \$10.00   | \$50                             |
| Soil Implants  | 0                  | each   | \$100.00  | \$0                              |
|  |                    |        |           | \$0                              |
|  |                    |        |           | \$0                              |
|  |                    |        |           | \$0                              |
|  |                    |        |           | \$0                              |
|  |                    |        | TOTAL     | \$390                            |

SCHEDULE 2.11 (D) 5  
 CONSUMABLE SUPPLIES  
 Trimmer Road Site  
 Work Assignment Number D003600-42  
 Summary

| ITEM                                     | ESTIMATED<br>QUANTITY | UNIT<br>COST         | TOTAL<br>BUDGETED<br>COST<br>(COL. 2 X 3) |
|--|-----------------------|----------------------|---|
| Miscellaneous Supplies<br>Sieve Analyses | 1                     | \$250.00<br>\$200.00 | 250<br>\$0                                |
|  |                       | TOTAL                | \$250                                     |

## Schedule 2.11 (e)

Cost Plus Fixed-Fee Sub-Contracts  
 Job Name: Trimmer Road Landfill  
 Original Work Assignment Number: 8-28-012

1. NAME OF SUBCONTRACTOR      SERVICES TO BE PERFORMED      SUB-CONTRACT PRICE

Om P. Popli, PE, LS, PC      Surveying Services      **\$1,120.00**

## A. Direct Salary Costs

| Professional<br>Responsibility<br>Level | Labor<br>Classification | Average<br>Reimbursement<br>Rate (\$/Hr) | Maximum<br>Reimbursement<br>Rate (\$/Hr) | Estimated<br>No. of<br>Hours | Total<br>Estimated<br>Direct<br>Salary Cost |
|---|-------------------------|--|--|------------------------------|---|
| VII                                     | Principal Engineer      | \$61.06                                  | \$61.06                                  | 0                            | \$0.00                                      |
| IV                                      | Surveyor                | \$28.70                                  | \$31.98                                  | 1                            | \$28.70                                     |
| III                                     | Surveyor                | \$21.67                                  | \$24.15                                  | 0                            | \$0.00                                      |
| III                                     | CADD Technician         | \$18.00                                  | \$21.20                                  | 1                            | \$18.00                                     |
| II                                      | *Technician/Surveyor    | \$19.66                                  | \$21.90                                  | 10                           | \$196.56                                    |
| I                                       | *Technician/Surveyor    | \$16.61                                  | \$18.50                                  | 10                           | \$166.05                                    |

**Total Direct Salary Costs** (A) **\$409.31**

## Footnotes:

- 1) These rates will be held firm until December 31, 2004.
- 2) Reimbursement will be limited to the lesser of either the individual's 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 asterisk will be entitled to overtime premium.
- 5) Reimbursement for technical time of principals, owners and officers will be limited to the maximum reimbursement rate of that labor category, the actual hourly labor rate paid, or the State M-5 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) Maximum reimbursement rates may be exceeded for work assignment activities that are under the jurisdiction of Schedule of Prevailing Wage Rates sent by the New York State Department of Labor.
- 8) Proposal based upon non-prevailing wage rates not subject to NYSDOL.
- 9) The above quotes are based on doing all or none of the tasks
- 10) The site will be accessible at all times.
- 11) Horizontal & Vertical will be provided on the necessary datum.
- 12) The site is a Level D site, personnel will working on site will have at a minimum the 24 hour Site Tech. training.

## Schedule 2.11 (e)

**Cost Plus Fixed-Fee Sub-Contracts**  
**Job Name: Trimmer Road Landfill**  
**Original Work Assignment Number: 8-28-012**

Additional assumptions specific to the site are as follows:

- A The project will be completed in English units.
- B Horizontal and Vertical control will be recovered in good condition
- C Elevations at remote sample locations will be obtained using RTK GPS methods.
- E No snow cover will be present during the field activities.
- F No Control Report will be produced.
- G Satellite availability will be at a sufficient level to provide suitable RTK GPS locations.

Indirect costs shall be paid based on a percentage of direct salary costs incurred which shall not exceed a maximum of 117% or the actual rate calculated in accordance with 48 CFR Federal Acquisition Regulation, whichever is lower.

Amount budgeted for indirect costs is                      \$409.31   x 1.17                      (B)                      **\$478.89**

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

| <u>Item</u>          | <u>Maximum Reimbursement<br/>Rate (Specify Unit)</u> | <u>Estimated Number<br/>of Units</u> | <u>Total Estimated<br/>Cost</u> |
|----------------------|--|--------------------------------------|---------------------------------|
| 1. Travel:           |  |                                      |                                 |
| Lodging and per diem | \$178.00 /person/day                                 | 0 man-days                           | \$0.00                          |
| Survey van           | \$75.00 /day   | 1 day                                | \$75.00                         |
| Auto CADD Station    | \$7.60 /hour   | 1 hours                              | \$7.60                          |
|                      |  |                                      | <u>\$82.60</u>                  |

2. Supplies

|                          |                     |            |                |
|--------------------------|---------------------|------------|----------------|
| Level D Safety equipment | \$18.00 /person/day | 1 man-days | <u>\$18.00</u> |
|--------------------------|---------------------|------------|----------------|

3. Subcontractor

|                |  |  |               |
|----------------|--|--|---------------|
| Aerial Mapping |  |  | <u>\$0.00</u> |
|----------------|--|--|---------------|

**Total Direct Non-Salary Costs**                      (C)                      **\$100.60**

**D. Fixed Fee**

The fixed fee is 15%                      (D)                      **\$133.23**  
 See Schedule 2.10(b) for how the fixed fee should be claimed.

Schedule 2.11 (e)

**Cost Plus Fixed-Fee Sub-Contracts**  
**Job Name: Trimmer Road Landfill - Additional Aerial Mapping**  
**Original Work Assignment Number: 8-28-012**

**1. NAME OF SUBCONTRACTOR      SERVICES TO BE PERFORMED      SUB-CONTRACT PRICE**

Om P. Popli, PE, LS, PC      Surveying Services      **\$2,850.00**

**A. Direct Salary Costs**

| Professional<br>Responsibility<br>Level | Labor<br>Classification | Average<br>Reimbursement<br>Rate (\$/Hr) | Maximum<br>Reimbursement<br>Rate (\$/Hr) | Estimated<br>No. of<br>Hours | Total<br>Estimated<br>Direct<br>Salary Cost |
|---|-------------------------|--|--|------------------------------|---|
| VII                                     | Principal Engineer      | \$61.06                                  | \$61.06                                  | 0                            | \$0.00                                      |
| IV                                      | Surveyor                | \$28.70                                  | \$31.98                                  | 1                            | \$28.70                                     |
| III                                     | Surveyor                | \$21.67                                  | \$24.15                                  | 1                            | \$21.67                                     |
| III                                     | CAD Technician          | \$18.00                                  | \$21.20                                  | 4                            | \$72.00                                     |
| II                                      | *Technician/Surveyor    | \$19.66                                  | \$21.90                                  | 16                           | \$314.50                                    |
| I                                       | *Technician/Surveyor    | \$16.61                                  | \$18.50                                  | 16                           | \$265.68                                    |

**Total Direct Salary Costs** (A) **\$702.55**

**Footnotes:**

- 1) These rates will be held firm until December 31, 2004.
- 2) Reimbursement will be limited to the lesser of either the individual's 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 asterisk will be entitled to overtime premium.
- 5) Reimbursement for technical time of principals, owners and officers will be limited to the maximum reimbursement rate of that labor category, the actual hourly labor rate paid, or the State M-5 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) Maximum reimbursement rates may be exceeded for work assignment activities that are under the jurisdiction of Schedule of Prevailing Wage Rates sent by the New York State Department of Labor.
- 8) Proposal based upon non-prevailing wage rates not subject to NYSDOL.
- 9) The above quotes are based on doing all or none of the tasks
- 10) Horizontal & Vertical will be provided on the necessary datum.
- 11) The site is a Level D site, personnel will working on site will have at a minimum the 24 hour Site Tech. training.

## Schedule 2.11 (e)

## Cost Plus Fixed-Fee Sub-Contracts

Job Name: Trimmer Road Landfill - Additional Aerial Mapping

Original Work Assignment Number: 8-28-012

Additional assumptions specific to the site are as follows:

- A The project will be completed in English units.
- B Horizontal and Vertical control will be recovered in good condition
- C Elevations at remote locations will be obtained using RTK GPS methods.
- E No snow cover will be present during the field activities.
- F No Control Report will be produced.
- G Satellite availability will be at a sufficient level to provide suitable RTK GPS locations.
- H The additional aerial mapping will consist of approximately 33 acres - any increase would cause a revision in estimate.
- I The mapping will be provided in an AutoCAD format at 1"=50' and a two foot contour interval.
- J Access to the site and its surrounding properties will not be limited.
- K No additional property survey and/or determination will be done

Indirect costs shall be paid based on a percentage of direct salary costs incurred which shall not exceed a maximum of 117% or the actual rate calculated in accordance with 48 CFR Federal Acquisition Regulation, whichever is lower.

Amount budgeted for indirect costs is \$702.55 x 1.17 (B) **\$821.99**

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

| Item                                 | Maximum Reimbursement<br>Rate (Specify Unit) | Estimated Number<br>of Units | Total Estimated<br>Cost |
|--------------------------------------|--|------------------------------|-------------------------|
| 1. Travel:                           |  |                              |                         |
| Lodging and per diem                 | \$178.00 /person/day                         | 0 man-days                   | \$0.00                  |
| Survey van                           | \$75.00 /day                                 | 1 day                        | \$75.00                 |
| AutoCAD Station                      | \$7.60 /hour                                 | 1 hours                      | \$7.60                  |
|                                      |  |                              | <u>\$82.60</u>          |
| 2. Supplies                          |  |                              |                         |
| Level D Safety equipment             | \$18.00 /person/day                          | 1 man-days                   | <u>\$18.00</u>          |
| 3. Subcontractor                     |  |                              |                         |
| Aerial Mapping                       |  |                              | <u>\$1,000.00</u>       |
| <b>Total Direct Non-Salary Costs</b> |  |                              | (C) <b>\$1,100.60</b>   |

## D. Fixed Fee

The fixed fee is 15% (D) **\$228.68**  
See Schedule 2.10(b) for how the fixed fee should be claimed.

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

Work Assignment Number D003600-42

Name of Subcontractor: EcoLogic, LLC

Services to be Performed: Field Assistance at Trimmer Road Site, Parma, NY

Subcontract Price: \$1,226.00

A. Direct Salary Costs

| Professional Responsibility Level | Labor Classification | Average Reimbursement Rate (\$/hr) | Maximum Reimbursement Rate (\$/hr) | Estimated No. of Hours | Total Estimated Direct Salary Cost |
|-----------------------------------|----------------------|------------------------------------|------------------------------------|------------------------|------------------------------------|
| Principal: Aquatic Sciences       | VIII                 | \$40.00                            | \$40.00                            | 2                      | \$80.00                            |
| Environmental Scientist           | IV                   | \$24.00                            | \$24.00                            | 20                     | \$480.00                           |
| Total Direct Salary Costs         | \$560.00             |                                    |                                    |                        |                                    |

Footnotes:

- 1) These rates will be held firm until December 31, 2004
- 2) Reimbursement will be limited to the lesser of either the individual's actual hourly rate
- 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 asterisk (\*) will be entitled to overtime.  
  
limited to the  
maximum reimbursement rate of that labor category, the actual hourly rate paid,  
or the
- 6) The maximum rates in each labor category can be modified only by mutual agreement



B. Indirect Salary Costs

Indirect costs shall be paid on a percentage of direct salary costs incurred which shall not of 50 % or the actual rate calculated in accordance with 48 Federal Acquisition Regulation, whichever is lower.

Amount budgeted for indirect costs is \$ 280.00

C. Maximum Reimbursement Rates for Direct Non-Salary Costs

| Item                          | Maximum Reimbursement Rates (specify unit) | Est. No. of Units | Total Estimated Cost |
|-------------------------------|--|-------------------|----------------------|
| Travel                        | \$0.375 /mile                              | 0                 | \$0.00               |
| Meals                         | \$47 /day                                  | 2                 | \$94.00              |
| Lodging                       | \$83 /day                                  | 2                 | \$166.00             |
| MiniTroll Datalogger          | \$225 /week                                | 0                 | \$0.00               |
| Expendable Field Supplies     | \$40 /day                                  | 0                 | \$0.00               |
| Total Direct Non-Salary Costs |  |                   | \$260.00             |

D. Fixed fee (15% of direct plus indirect labor costs) \$ 126.00

**Schedule 2.11 (e)3**  
**Cost Plus Fixed-Fee Subcontracts**

**Trimmer Road Landfill Remedial Design**

| <u>NAME OF SUBCONTRACTOR</u> | <u>SERVICES TO BE PERFORMED</u> | <u>SUBCONTRACT PRICE</u> |
|------------------------------|---------------------------------|--------------------------|
| Ecolotree, Inc.              | Phytoremediation System Design  | \$29,534                 |

**A. Direct Salary Costs**

| <u>Professional Responsibility Level</u> | <u>Labor Classification</u> | <u>Average<br/>Reimbursement<br/>Rate (\$/Hr.)</u> | <u>Hours</u> | <u>Cost</u>    |
|--|-----------------------------|--|--------------|----------------|
| Senior Design                            | VII                         | 17.31  | 20           | \$346          |
| Senior Engineer                          | V                           | 33.00  | 140          | \$4,620        |
| Assistant Scientist                      | III                         | 25.00  | 30           | \$750          |
| Assistant Scientist                      | III                         | 18.00  | 45           | \$810          |
| Jr. Technician                           | I                           | 15.36  | 70           | \$1,075        |
| Statistician                             | IV                          | 35.00  | 20           | \$700          |
| Administrative Assistant                 | II                          | 13.00  | 30           | \$390          |
| <b>Total Direct Salary Cost</b>          |                             |  |              | <b>\$8,691</b> |

**B. Indirect Salary Costs - 117% of Direct Salary Cost** **\$10,169**

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

| <u>Item</u>                                | <u>Unit of Measure</u> | <u>Maximum<br/>Reimbursement<br/>Rate</u> | <u>No. of Units</u> | <u>Total Cost</u> |
|--|------------------------|---|---------------------|-------------------|
| Mileage                                    | Mile                   | 0.375                                     | 400                 | \$150             |
| Air Fare                                   | Round Trip             | 600                                       | 1                   | 600               |
| HYDRUS-1D model runs                       | Model Run              | 400                                       | 8                   | 3200              |
| Test soils for agronomic properties        | Sample                 | 80  | 15                  | 1200              |
| Test soils for field capacity & wilt point | Sample                 | 220                                       | 5                   | 1100              |
| Global Positioning System Equipment        | Hours                  | 150                                       | 5                   | 750               |
| Parking                                    | Day                    | 7   | 3                   | 21                |
| Car Rental                                 | Day                    | 90  | 3                   | 270               |
| Fuel                                       | Day                    | 25  | 2                   | 50                |
| Hotel                                      | Night                  | 83  | 2                   | 166               |
| Meals                                      | Day                    | 47  | 4                   | 188               |
| Misc. Field Supplies                       | Lump Sum               | 150                                       | 1                   | 150               |
| <b>Total Direct Non-Salary Cost</b>        |                        |   |                     | <b>\$7,845</b>    |

**D. Fixed Fee (15% of Direct and Indirect Salary Costs)** **\$2,829**

| ITEM DESCRIPTION  | UNIT            | QUANTITY | Parratt-Wolff, Inc. |             | Nothnagle Drilling, Inc. |             | Uni-Tech Drilling Company, Inc. |             | Delta Well and Pump Company, Inc. |             |
|---|-----------------|----------|---------------------|-------------|--------------------------|-------------|---------------------------------|-------------|-----------------------------------|-------------|
|   |                 |          | UNIT PRICE          | TOTAL PRICE | UNIT PRICE               | TOTAL PRICE | UNIT PRICE                      | TOTAL PRICE | UNIT PRICE                        | TOTAL PRICE |
| 1. A. MOBILIZATION/DEMOLITION, INCLUDING UP, SITE BREAKDOWN, CLEANUP, REPAIR, INITIAL EQUIPMENT DECONTAMINATION, TRAVEL, LODGING, MEALS AND LABOR FOR SITE RESTORATION. |                 | 1        | \$600               | \$600       | \$0                      | \$0         | \$1,800                         | \$1,800     | No Bid                            | No Bid      |
| B. CONSTRUCTION AND REMOVAL OF DECON PAD  | Lump Sum        | 1        | 400                 | 400         | 850                      | 850         | 425                             | 425         | 800                               | 800         |
| C. WELL/BORING SET-UP   | Per Well/Boring | 4        | 200                 | 800         | 100                      | 400         | 200                             | 800         | 300                               | 1,200       |
| 2 DRILLING TECHNIQUES   |                 |          |                     |             |                          |             |                                 |             |                                   |             |
| 2A. HOLLOW STEM AUGER   |                 |          |                     |             |                          |             |                                 |             |                                   |             |
| (1) 0-50 FEET IN DEPTH  |                 |          |                     |             |                          |             |                                 |             |                                   |             |
| A. 2.25- In. ID HSA   | Lineal Foot     | 70       | 12                  | 0           | 10                       | 0           | 12                              | 0           | 17                                | 0           |
| B. 3.25- In. ID HSA   | Lineal Foot     |          | 12                  | 0           | 10                       | 0           | 14                              | 0           | 17                                | 0           |
| C. 4.25- In. ID HSA   | Lineal Foot     |          | 13                  | 910         | 12                       | 840         | 14                              | 980         | 18                                | 1,260       |
| D. 6.25- In. ID HSA   | Lineal Foot     |          | 16                  | 0           | 14                       | 0           | 16                              | 0           | 20                                | 0           |
| E. 8.25- In. ID HSA   | Lineal Foot     |          | 24                  | 0           | 24                       | 0           | 18                              | 0           | 50                                | 0           |
| (2) 50-100 FEET IN DEPTH  |                 |          |                     |             |                          |             |                                 |             |                                   |             |
| A. 3.25- In. ID HSA   | Lineal Foot     |          | 13                  | 0           | 12                       | 0           | 14                              | 0           | 17                                | 0           |
| B. 4.25- In. ID HSA   | Lineal Foot     |          | 15                  | 0           | 14                       | 0           | 14                              | 0           | 17                                | 0           |
| C. 6.25- In. ID HSA   | Lineal Foot     |          | 20                  | 0           | 16                       | 0           | 17                              | 0           | 21                                | 0           |
| D. 8.25- In. ID HSA   | Lineal Foot     |          | NA                  | 0           | 28                       | 0           | 20                              | 0           | 60                                | 0           |
| (3) 100-200 FEET IN DEPTH   |                 |          |                     |             |                          |             |                                 |             |                                   |             |
| A. 3.25- In. ID HSA   | Lineal Foot     |          | NA                  | 0           | 16                       | 0           | 18                              | 0           | 19                                | 0           |
| B. 4.25- In. ID HSA   | Lineal Foot     |          | NA                  | 0           | 18                       | 0           | 22                              | 0           | 20                                | 0           |
| C. 6.25- In. ID HSA   | Lineal Foot     |          | NA                  | 0           | 20                       | 0           | 26                              | 0           | 30                                | 0           |
| 2B CABLE TOOL- Flush Joint or Coupled Casing  |                 |          |                     |             |                          |             |                                 |             |                                   |             |
| (1) 0-50 FEET IN DEPTH  |                 |          |                     |             |                          |             |                                 |             |                                   |             |
| A. 4-INCH ID CASING   | Lineal Foot     |          | 25                  | 0           | 15                       | 0           | 20                              | 0           | NA                                | 0           |
| B. 6-INCH ID CASING   | Lineal Foot     |          | 30                  | 0           | 20                       | 0           | 27                              | 0           | NA                                | 0           |
| C. 8-INCH ID CASING   | Lineal Foot     |          | 50                  | 0           | 28                       | 0           | 30                              | 0           | NA                                | 0           |
| (2) 50-100 FEET IN DEPTH  |                 |          |                     |             |                          |             |                                 |             |                                   |             |
| A. 4-INCH ID CASING   | Lineal Foot     |          | 35                  | 0           | 16                       | 0           | 20                              | 0           | NA                                | 0           |
| B. 6-INCH ID CASING   | Lineal Foot     |          | 45                  | 0           | 22                       | 0           | 27                              | 0           | NA                                | 0           |
| C. 8-INCH ID CASING   | Lineal Foot     |          | NA                  | 0           | 30                       | 0           | 30                              | 0           | NA                                | 0           |
| (3) 100-200 FEET IN DEPTH   |                 |          |                     |             |                          |             |                                 |             |                                   |             |
| A. 4-INCH ID CASING   | Lineal Foot     |          | 60                  | 0           | 20                       | 0           | 20                              | 0           | NA                                | 0           |
| B. 6-INCH ID CASING   | Lineal Foot     |          | NA                  | 0           | 28                       | 0           | 27                              | 0           | NA                                | 0           |
| C. 8-INCH ID CASING   | Lineal Foot     |          | NA                  | 0           | 42                       | 0           | 30                              | 0           | NA                                | 0           |
| (4) GREATER THAN 200 FEET IN DEPTH  |                 |          |                     |             |                          |             |                                 |             |                                   |             |
| A. 4-INCH ID CASING   | Lineal Foot     |          | NA                  | 0           | 30                       | 0           | 25                              | 0           | NA                                | 0           |
| B. 6-INCH ID CASING   | Lineal Foot     |          | NA                  | 0           | 40                       | 0           | 32                              | 0           | NA                                | 0           |
| C. 8-INCH ID CASING   | Lineal Foot     |          | NA                  | 0           | 60                       | 0           | 35                              | 0           | NA                                | 0           |
| 2C SPIN TEMPORARY FLUSH JOINT CASTING   |                 |          |                     |             |                          |             |                                 |             |                                   |             |
| (1) 0-50 FEET IN DEPTH  |                 |          |                     |             |                          |             |                                 |             |                                   |             |
| A. 4-INCH ID CASING   | Lineal Foot     |          | 30                  | 0           | 15                       | 0           | 35                              | 0           | 25                                | 0           |
| B. 6-INCH ID CASING   | Lineal Foot     |          | 40                  | 0           | 20                       | 0           | 65                              | 0           | NA                                | 0           |
| C. 8-INCH ID CASING   | Lineal Foot     |          | 60                  | 0           | 28                       | 0           | 72                              | 0           | NA                                | 0           |
| (2) 50-100 FEET IN DEPTH  |                 |          |                     |             |                          |             |                                 |             |                                   |             |
| A. 4-INCH ID CASING   | Lineal Foot     |          | 40                  | 0           | 16                       | 0           | 35                              | 0           | 25                                | 0           |
| B. 6-INCH ID CASING   | Lineal Foot     |          | 50                  | 0           | 22                       | 0           | 65                              | 0           | NA                                | 0           |
| (3) 100-200 FEET IN DEPTH   |                 |          |                     |             |                          |             |                                 |             |                                   |             |
| A. 4-INCH ID CASING   | Lineal Foot     |          | 60                  | 0           | 20                       | 0           | 40                              | 0           | 27                                | 0           |
| B. 6-INCH ID CASING   | Lineal Foot     |          | NA                  | 0           | 28                       | 0           | 70                              | 0           | NA                                | 0           |

| ITEM DESCRIPTION                   | UNIT        | QU<br>ANT<br>ITY | Parratt-Wolff,<br>Inc. |                | Nothnagle Drilling,<br>Inc. |                | Uni-Tech Drilling<br>Company, Inc. |                | Delta Well and<br>Pump Company, Inc. |                |
|------------------------------------|-------------|------------------|------------------------|----------------|-----------------------------|----------------|------------------------------------|----------------|--------------------------------------|----------------|
|                                    |             |                  | UNIT<br>PRICE          | TOTAL<br>PRICE | UNIT<br>PRICE               | TOTAL<br>PRICE | UNIT<br>PRICE                      | TOTAL<br>PRICE | UNIT<br>PRICE                        | TOTAL<br>PRICE |
| 2D. MUD ROTARY                     |             |                  |                        |                |                             |                |                                    |                |                                      |                |
| (1) 0-50 FEET IN DEPTH             |             |                  |                        |                |                             |                |                                    |                |                                      |                |
| A. 4-INCH DIAMETER BIT             | Lineal Foot |                  | 30                     | 0              | 16                          | 0              | 12                                 | 0              | NA                                   | 0              |
| B. 6-INCH DIAMETER BIT             | Lineal Foot |                  | 40                     | 0              | 20                          | 0              | 13                                 | 0              | 50                                   | 0              |
| C. 8-INCH DIAMETER BIT             | Lineal Foot |                  | 60                     | 0              | 28                          | 0              | 15                                 | 0              | 55                                   | 0              |
| D. 10-INCH DIAMETER BIT            | Lineal Foot |                  | 80                     | 0              | 35                          | 0              | 20                                 | 0              | 57                                   | 0              |
| (2) 50-100 FEET IN DEPTH           |             |                  |                        |                |                             |                |                                    |                |                                      |                |
| A. 4-INCH DIAMETER BIT             | Lineal Foot |                  | 35                     | 0              | 18                          | 0              | 12                                 | 0              | NA                                   | 0              |
| B. 6-INCH DIAMETER BIT             | Lineal Foot |                  | 45                     | 0              | 24                          | 0              | 13                                 | 0              | 50                                   | 0              |
| C. 8-INCH DIAMETER BIT             | Lineal Foot |                  | 65                     | 0              | 32                          | 0              | 15                                 | 0              | 55                                   | 0              |
| D. 10-INCH DIAMETER BIT            | Lineal Foot |                  | 90                     | 0              | 40                          | 0              | 22                                 | 0              | 57                                   | 0              |
| (3) 100-200 FEET IN DEPTH          |             |                  |                        |                |                             |                |                                    |                |                                      |                |
| A. 4-INCH DIAMETER BIT             | Lineal Foot |                  | 35                     | 0              | 20                          | 0              | 14                                 | 0              | NA                                   | 0              |
| B. 6-INCH DIAMETER BIT             | Lineal Foot |                  | 45                     | 0              | 26                          | 0              | 16                                 | 0              | 45                                   | 0              |
| C. 8-INCH DIAMETER BIT             | Lineal Foot |                  | 65                     | 0              | 34                          | 0              | 18                                 | 0              | 50                                   | 0              |
| D. 10-INCH DIAMETER BIT            | Lineal Foot |                  | 90                     | 0              | 42                          | 0              | 28                                 | 0              | 55                                   | 0              |
| (4) GREATER THAN 200 FEET IN DEPTH |             |                  |                        |                |                             |                |                                    |                |                                      |                |
| A. 4-INCH DIAMETER BIT             | Lineal Foot |                  | 40                     | 0              | 28                          | 0              | 18                                 | 0              | NA                                   | 0              |
| B. 6-INCH DIAMETER BIT             | Lineal Foot |                  | 50                     | 0              | 34                          | 0              | 20                                 | 0              | 40                                   | 0              |
| C. 8-INCH DIAMETER BIT             | Lineal Foot |                  | 70                     | 0              | 42                          | 0              | 24                                 | 0              | 45                                   | 0              |
| 2E. AIR ROTARY                     |             |                  |                        |                |                             |                |                                    |                |                                      |                |
| (1) 0-50 FEET IN DEPTH             |             |                  |                        |                |                             |                |                                    |                |                                      |                |
| A. 4-INCH DIAMETER BIT             | Lineal Foot |                  | 30                     | 0              | 16                          | 0              | 14                                 | 0              | NA                                   | 0              |
| B. 6-INCH DIAMETER BIT             | Lineal Foot |                  | 40                     | 0              | 20                          | 0              | 16                                 | 0              | NA                                   | 0              |
| C. 8-INCH DIAMETER BIT             | Lineal Foot |                  | 60                     | 0              | 28                          | 0              | 18                                 | 0              | NA                                   | 0              |
| (2) 50-100 FEET IN DEPTH           |             |                  |                        |                |                             |                |                                    |                |                                      |                |
| A. 4-INCH DIAMETER BIT             | Lineal Foot |                  | 30                     | 0              | 18                          | 0              | 14                                 | 0              | NA                                   | 0              |
| B. 6-INCH DIAMETER BIT             | Lineal Foot |                  | 40                     | 0              | 24                          | 0              | 16                                 | 0              | NA                                   | 0              |
| C. 8-INCH DIAMETER BIT             | Lineal Foot |                  | 60                     | 0              | 32                          | 0              | 18                                 | 0              | NA                                   | 0              |
| (3) 100-200 FEET IN DEPTH          |             |                  |                        |                |                             |                |                                    |                |                                      |                |
| A. 4-INCH DIAMETER BIT             | Lineal Foot |                  | 35                     | 0              | 20                          | 0              | 14                                 | 0              | NA                                   | 0              |
| B. 6-INCH DIAMETER BIT             | Lineal Foot |                  | 45                     | 0              | 26                          | 0              | 16                                 | 0              | NA                                   | 0              |
| C. 8-INCH DIAMETER BIT             | Lineal Foot |                  | 65                     | 0              | 34                          | 0              | 18                                 | 0              | NA                                   | 0              |
| (4) GREATER THAN 200 FEET IN DEPTH |             |                  |                        |                |                             |                |                                    |                |                                      |                |
| A. 4-INCH DIAMETER BIT             | Lineal Foot |                  | 40                     | 0              | 28                          | 0              | 16                                 | 0              | NA                                   | 0              |
| B. 6-INCH DIAMETER BIT             | Lineal Foot |                  | 50                     | 0              | 36                          | 0              | 18                                 | 0              | NA                                   | 0              |
| C. 8-INCH DIAMETER BIT             | Lineal Foot |                  | 70                     | 0              | 42                          | 0              | 20                                 | 0              | NA                                   | 0              |
| 3. ROCK CORING                     |             |                  |                        |                |                             |                |                                    |                |                                      |                |
| (1) 0-50 FEET IN DEPTH             |             |                  |                        |                |                             |                |                                    |                |                                      |                |
| A. NX-CORING                       | Lineal Foot | 30               | 40                     | 0              | 32                          | 0              | 45                                 | 0              | NA                                   | 0              |
| B. HX-CORING                       | Lineal Foot |                  | 50                     | 1,500          | 45                          | 1,350          | 48                                 | 1,440          | NA                                   | 0              |
| C. NQ-CORING                       | Lineal Foot |                  | 40                     | 0              | 32                          | 0              | 50                                 | 0              | NA                                   | 0              |
| D. HQ-CORING                       | Lineal Foot |                  | 50                     | 0              |                             |                | 50                                 | 0              | NA                                   | 0              |
| (2) 50-100 FEET IN DEPTH           |             |                  |                        |                |                             |                |                                    |                |                                      |                |
| A. NX-CORING                       | Lineal Foot |                  | 40                     | 0              | 35                          | 0              | 45                                 | 0              | NA                                   | 0              |
| B. HX-CORING                       | Lineal Foot |                  | 50                     | 0              | 48                          | 0              | 48                                 | 0              | NA                                   | 0              |
| C. NQ-CORING                       | Lineal Foot |                  | 40                     | 0              | 35                          | 0              | 50                                 | 0              | NA                                   | 0              |
| D. HQ-CORING                       | Lineal Foot |                  | 50                     | 0              |                             |                | 50                                 | 0              | NA                                   | 0              |
| (3) 100-200 FEET IN DEPTH          |             |                  |                        |                |                             |                |                                    |                |                                      |                |
| A. NX-CORING                       | Lineal Foot |                  | 40                     | 0              | 40                          | 0              | 50                                 | 0              | NA                                   | 0              |
| B. HX-CORING                       | Lineal Foot |                  | 50                     | 0              | 54                          | 0              | 55                                 | 0              | NA                                   | 0              |
| C. NQ-CORING                       | Lineal Foot |                  | 40                     | 0              | 40                          | 0              | 60                                 | 0              | NA                                   | 0              |

| ITEM DESCRIPTION  | UNIT        | QUANTITY | Parratt-Wolff, Inc. |             | Nothnagle Drilling, Inc. |             | Uni-Tech Drilling Company, Inc. |             | Delta Well and Pump Company, Inc. |             |
|---|-------------|----------|---------------------|-------------|--------------------------|-------------|---------------------------------|-------------|-----------------------------------|-------------|
|   |             |          | UNIT PRICE          | TOTAL PRICE | UNIT PRICE               | TOTAL PRICE | UNIT PRICE                      | TOTAL PRICE | UNIT PRICE                        | TOTAL PRICE |
| D. HQ-CORING<br>(4) GREATER THAN 200 FEET IN DEPTH      | Lineal Foot |          | 50                  | 0           |                          |             | 60                              | 0           | NA                                | 0           |
| A. NX-CORING  | Lineal Foot |          | 40                  | 0           | 45                       | 0           | 60                              | 0           | NA                                | 0           |
| B. HX-CORING  | Lineal Foot |          | 50                  | 0           | 60                       | 0           | 65                              | 0           | NA                                | 0           |
| 4 ROLLER BIT REAMING NX/NQ CORE HOLE TO 4-INCH DIAMETER |             |          |                     |             |                          |             |                                 |             |                                   |             |
| A. 0-50 FEET IN DEPTH                                   | Lineal Foot |          | 30                  | 0           | 18                       | 0           | 12                              | 0           | NA                                | 0           |
| B. 50-100 FEET IN DEPTH                                 | Lineal Foot |          | 40                  | 0           | 19                       | 0           | 14                              | 0           | NA                                | 0           |
| C. 100-200 FEET IN DEPTH                                | Lineal Foot |          | 50                  | 0           | 24                       | 0           | 16                              | 0           | NA                                | 0           |
| D. GREATER THAN 200 FEET IN DEPTH                       | Lineal Foot |          | 60                  | 0           | 28                       | 0           | 18                              | 0           | NA                                | 0           |
| 5 ROLLER BIT REAMING NX/NQ CORE HOLE TO 6-INCH DIAMETER |             |          |                     |             |                          |             |                                 |             |                                   |             |
| A. 0-50 FEET IN DEPTH                                   | Lineal Foot |          | 40                  | 0           | 26                       | 0           | 12                              | 0           | NA                                | 0           |
| B. 50-100 FEET IN DEPTH                                 | Lineal Foot |          | 50                  | 0           | 28                       | 0           | 14                              | 0           | NA                                | 0           |
| C. 100-200 FEET IN DEPTH                                | Lineal Foot |          | 60                  | 0           | 35                       | 0           | 16                              | 0           | NA                                | 0           |
| D. GREATER THAN 200 FEET IN DEPTH                       | Lineal Foot |          | 80                  | 0           | 40                       | 0           | 18                              | 0           | NA                                | 0           |
| 6 BORE HOLE SAMPLING                                    |             |          |                     |             |                          |             |                                 |             |                                   |             |
| 6A. SPLIT SPOON SAMPLING                                |             |          |                     |             |                          |             |                                 |             |                                   |             |
| (1) 0-50 FEET IN DEPTH                                  |             |          |                     |             |                          |             |                                 |             |                                   |             |
| A. 2-INCH OD  | Per Sample  | 27       | 20                  | 540         | 10                       | 270         | 15                              | 405         | 35                                | 945         |
| B. 3-INCH OD  | Per Sample  |          | 30                  | 0           | 15                       | 0           | 25                              | 0           | 55                                | 0           |
| (2) 50-100 FEET IN DEPTH                                |             |          |                     |             |                          |             |                                 |             |                                   |             |
| A. 2-INCH OD  | Per Sample  |          | 30                  | 0           | 12                       | 0           | 15                              | 0           | 40                                | 0           |
| B. 3-INCH OD  | Per Sample  |          | 45                  | 0           | 17                       | 0           | 25                              | 0           | 60                                | 0           |
| (3) 100-200 FEET IN DEPTH                               |             |          |                     |             |                          |             |                                 |             |                                   |             |
| A. 2-INCH OD  | Per Sample  |          | 45                  | 0           | 14                       | 0           | 20                              | 0           | 45                                | 0           |
| B. 3-INCH OD  | Per Sample  |          | 60                  | 0           | 21                       | 0           | 30                              | 0           | 65                                | 0           |
| (4) GREATER THAN 200 FEET IN DEPTH                      |             |          |                     |             |                          |             |                                 |             |                                   |             |
| A. 2-INCH OD  | Per Sample  |          | 150                 | 0           | 16                       | 0           | 35                              | 0           | 50                                | 0           |
| B. 3-INCH OD  | Per Sample  |          | 200                 | 0           | 25                       | 0           | 45                              | 0           | 70                                | 0           |
| 6B SHELBY TUBE SAMPLING                                 |             |          |                     |             |                          |             |                                 |             |                                   |             |
| A 0-50 FEET IN DEPTH                                    | Per Attempt |          | 125                 | 0           | 75                       | 0           | 100                             | 0           | 350                               | 0           |
| B 50-100 FEET IN DEPTH                                  | Per Attempt |          | 150                 | 0           | 85                       | 0           | 100                             | 0           | 375                               | 0           |
| C. 100-200 FEET IN DEPTH                                | Per Attempt |          | 200                 | 0           | 95                       | 0           | 130                             | 0           | 400                               | 0           |
| D. GREATER THAN 200 FEET IN DEPTH                       | Per Attempt |          | 300                 | 0           | 125                      | 0           | 150                             | 0           | 575                               | 0           |
| 6C HYDRO PUNCH SAMPLING                                 |             |          |                     |             |                          |             |                                 |             |                                   |             |
| A 0-50 FEET IN DEPTH                                    | Per Sample  |          | 175                 | 0           | 150                      | 0           | 275                             | 0           | 250                               | 0           |
| B 50-100 FEET IN DEPTH                                  | Per Sample  |          | 200                 | 0           | 160                      | 0           | 295                             | 0           | 275                               | 0           |
| C. 100-200 FEET IN DEPTH                                | Per Sample  |          | 250                 | 0           | 175                      | 0           | 325                             | 0           | 300                               | 0           |
| D. GREATER THAN 200 FEET IN DEPTH                       | Per Sample  |          | 400                 | 0           | 200                      | 0           | 375                             | 0           | 375                               | 0           |
| 7 BOREHOLE ABANDONMENT                                  |             |          |                     |             |                          |             |                                 |             |                                   |             |
| A 0 TO 4-INCH DIAMETER BOREHOLE                         | Per Foot    |          | 4                   | 0           | 5                        | 0           | 3                               | 0           | 12                                | 0           |
| B 4 TO 8-INCH DIAMETER BOREHOLE                         | Per Foot    |          | 6                   | 0           | 6                        | 0           | 6                               | 0           | 15                                | 0           |
| C. 8 TO 12-INCH DIAMETER BOREHOLE                       | Per Foot    |          | 12                  | 0           | 10                       | 0           | 10                              | 0           | 25                                | 0           |
| 8 WELL SCREEN   |             |          |                     |             |                          |             |                                 |             |                                   |             |
| 8A SCHEDULE 40 PVC                                      |             |          |                     |             |                          |             |                                 |             |                                   |             |
| A 1-INCH ID   | Per Foot    | 20       | 2                   | 0           | 10                       | 0           | 7                               | 0           | 4                                 | 0           |
| B 2-INCH ID   | Per Foot    |          | 8                   | 160         | 14                       | 280         | 10                              | 200         | 6                                 | 120         |
| C. 4-INCH ID  | Per Foot    |          | 10                  | 0           | 22                       | 0           | 20                              | 0           | 9                                 | 0           |
| D. 6-INCH ID  | Per Foot    |          | 20                  | 0           | 30                       | 0           | 25                              | 0           | 24                                | 0           |
| E 8-INCH ID   | Per Foot    |          | 30                  | 0           | 38                       | 0           | 30                              | 0           | 35                                | 0           |
| 8B SCHEDULE 80 PVC                                      |             |          |                     |             |                          |             |                                 |             |                                   |             |
| A. 4-INCH ID  | Per Foot    |          | 15                  | 0           | 28                       | 0           | 20                              | 0           | 14                                | 0           |
| B. 6-INCH ID  | Per Foot    |          | 30                  | 0           | 36                       | 0           | 28                              | 0           | 35                                | 0           |

| ITEM DESCRIPTION   | UNIT          | QUANTITY | Parratt-Wolff, Inc. |             | Nothnagle Drilling, Inc. |             | Uni-Tech Drilling Company, Inc. |             | Delta Well and Pump Company, Inc. |             |
|--|---------------|----------|---------------------|-------------|--------------------------|-------------|---------------------------------|-------------|-----------------------------------|-------------|
|  |               |          | UNIT PRICE          | TOTAL PRICE | UNIT PRICE               | TOTAL PRICE | UNIT PRICE                      | TOTAL PRICE | UNIT PRICE                        | TOTAL PRICE |
| C. 8-INCH ID   | Per Foot      |          | 40                  | 0           | 44                       | 0           | 32                              | 0           | 40                                | 0           |
| 8C. STAINLESS, SCHEDULE 5, TYPE 304                                  |               |          |                     |             |                          |             |                                 |             |                                   |             |
| A. 2-INCH ID   | Per Foot      |          | 15                  | 0           | 28                       | 0           | 30                              | 0           | 30                                | 0           |
| B. 4-INCH ID   | Per Foot      |          | 30                  | 0           | 56                       | 0           | 50                              | 0           | 48                                | 0           |
| C. 6-INCH ID   | Per Foot      |          | 60                  | 0           | 68                       | 0           | 65                              | 0           | 60                                | 0           |
| 8D PRE-SAND PACKED STAINLESS STEEL WELL SCREEN, SCHEDULE 5, TYPE 304 |               |          |                     |             |                          |             |                                 |             |                                   |             |
| (1) 2-INCH ID  | Per Foot      |          | 60                  | 0           | 84                       | 0           | 75                              | 0           | 70                                | 0           |
| (2) 4-INCH ID  | Per Foot      |          | 90                  | 0           | 124                      | 0           | 95                              | 0           | 90                                | 0           |
| 9 WELL RISER   |               |          |                     |             |                          |             |                                 |             |                                   |             |
| 9A. SCHEDULE 40 PVC  |               |          |                     |             |                          |             |                                 |             |                                   |             |
| A. 1-INCH ID   | Per Foot      | 10       | 2                   | 0           | 8                        | 0           | 3                               | 0           | 2                                 | 0           |
| B. 2-INCH ID   | Per Foot      |          | 4                   | 40          | 14                       | 140         | 5                               | 50          | 3                                 | 30          |
| C. 4-INCH ID   | Per Foot      |          | 6                   | 0           | 19                       | 0           | 8                               | 0           | 6                                 | 0           |
| D. 6-INCH ID   | Per Foot      |          | 15                  | 0           | 24                       | 0           | 12                              | 0           | 10                                | 0           |
| E. 8-INCH ID   | Per Foot      |          | 25                  | 0           | 30                       | 0           | 14                              | 0           | 20                                | 0           |
| 9B. SCHEDULE 80 PVC  |               |          |                     |             |                          |             |                                 |             |                                   |             |
| A. 4-INCH ID   | Per Foot      |          | 10                  | 0           | 25                       | 0           | 10                              | 0           | 10                                | 0           |
| B. 6-INCH ID   | Per Foot      |          | 25                  | 0           | 30                       | 0           | 14                              | 0           | 20                                | 0           |
| C. 8-INCH ID   | Per Foot      |          | 35                  | 0           | 38                       | 0           | 16                              | 0           | 40                                | 0           |
| 9C STAINLESS, SCHEDULE 5, TYPE 304                                   |               |          |                     |             |                          |             |                                 |             |                                   |             |
| A. 2-INCH ID   | Per Foot      |          | 10                  | 0           | 22                       | 0           | 12                              | 0           | 15                                | 0           |
| B. 4-INCH ID   | Per Foot      |          | 25                  | 0           | 42                       | 0           | 18                              | 0           | 25                                | 0           |
| C. 6-INCH ID   | Per Foot      |          | 50                  | 0           | 60                       | 0           | 28                              | 0           | 40                                | 0           |
| 10 WELL SCREEN SANDPACK MATERIAL                                     | Bag (94 LBS)  | 12       | 15                  | 180         | 25                       | 300         | 12                              | 144         | 10                                | 120         |
| (No.00 TO No. 2 SIZE SAND)   |               |          |                     |             |                          |             |                                 |             |                                   |             |
| 11 BENTONITE   |               |          |                     |             |                          |             |                                 |             |                                   |             |
| A. PELLETS   | 5 Gallon Pail |          | 50                  | 0           | 50                       | 0           | 70                              | 0           | 60                                | 0           |
| B. POWDER  | Bag (50 LBS)  |          | 15                  | 0           | 20                       | 0           | 12                              | 0           | 30                                | 0           |
| C. GRANULAR  | Bag (50 LBS)  | 4        | 20                  | 80          | 25                       | 100         | 12                              | 48          | 30                                | 120         |
| 12 GROUT   |               |          |                     |             |                          |             |                                 |             |                                   |             |
| A. PORTLAND CEMENT TYPE-I  | Bag (94 LBS)  |          | 30                  | 0           | 20                       | 0           | 12                              | 0           | 15                                | 0           |
| B. PORTLAND CEMENT TYPE-II   | Bag (94 LBS)  | 6        | 30                  | 180         | 20                       | 120         | 12                              | 72          | 25                                | 150         |
| 13 INSTALLATION OF OUTER CASING FOR MULTI-CASED WELLS                |               |          |                     |             |                          |             |                                 |             |                                   |             |
| (1) SCHEDULE 40 PVC  |               |          |                     |             |                          |             |                                 |             |                                   |             |
| A. 4-INCH DIAMETER   | Per Foot      |          | 20                  | 0           | 16                       | 0           | 15                              | 0           | 50                                | 0           |
| B. 6-INCH DIAMETER   | Per Foot      |          | 30                  | 0           | 20                       | 0           | 20                              | 0           | 55                                | 0           |
| C. 8-INCH DIAMETER   | Per Foot      |          | 40                  | 0           | 28                       | 0           | 24                              | 0           | 65                                | 0           |
| D. 10-INCH DIAMETER  | Per Foot      |          | 50                  | 0           | 36                       | 0           | 30                              | 0           | 80                                | 0           |
| (2) SCHEDULE 80 PVC  |               |          |                     |             |                          |             |                                 |             |                                   |             |
| A. 4-INCH DIAMETER   | Per Foot      |          | 25                  | 0           | 18                       | 0           | 17                              | 0           | 60                                | 0           |
| B. 6-INCH DIAMETER   | Per Foot      |          | 35                  | 0           | 22                       | 0           | 22                              | 0           | 65                                | 0           |
| C. 8-INCH DIAMETER   | Per Foot      |          | 45                  | 0           | 30                       | 0           | 26                              | 0           | 75                                | 0           |
| D. 10-INCH DIAMETER  | Per Foot      |          | 55                  | 0           | 38                       | 0           | 32                              | 0           | 90                                | 0           |
| (3) CARBON STEEL   |               |          |                     |             |                          |             |                                 |             |                                   |             |
| A. 4-INCH DIAMETER   | Per Foot      | 40       | 25                  | 1,000       | 18                       | 720         | 16                              | 640         | 50                                | 2,000       |
| B. 6-INCH DIAMETER   | Per Foot      |          | 30                  | 0           | 22                       | 0           | 21                              | 0           | 55                                | 0           |
| C. 8-INCH DIAMETER   | Per Foot      |          | 40                  | 0           | 30                       | 0           | 25                              | 0           | 70                                | 0           |
| D. 10-INCH DIAMETER  | Per Foot      |          | 50                  | 0           | 42                       | 0           | 32                              | 0           | 100                               | 0           |
| 14 INSTALLATION OF PROTECTIVE CASINGS                                |               |          |                     |             |                          |             |                                 |             |                                   |             |
| 14A FLUSH MOUNT SURFACE CASING                                       |               |          |                     |             |                          |             |                                 |             |                                   |             |
| (1) FLUSH MOUNT WITH LOCKING COVER, DRAIN HOLE                       |               |          |                     |             |                          |             |                                 |             |                                   |             |

| ITEM DESCRIPTION   | UNIT               | QUANTITY | Parratt-Wolff, Inc. |             | Nothnagle Drilling, Inc. |             | Uni-Tech Drilling Company, Inc. |             | Delta Well and Pump Company, Inc. |             |
|--|--------------------|----------|---------------------|-------------|--------------------------|-------------|---------------------------------|-------------|-----------------------------------|-------------|
|  |                    |          | UNIT PRICE          | TOTAL PRICE | UNIT PRICE               | TOTAL PRICE | UNIT PRICE                      | TOTAL PRICE | UNIT PRICE                        | TOTAL PRICE |
| SET IN A 2'X2' CONCRETE PAD EXTENDING AT LEAST 6 INCHES BELOW GROUND SURFACE   |                    |          |                     |             |                          |             |                                 |             |                                   |             |
| A. 4-INCH ID   | Per Casing         |          | 200                 | 0           | 130                      | 0           | 275                             | 0           | 200                               | 0           |
| B. 6-INCH ID   | Per Casing         |          | 200                 | 0           | 150                      | 0           | 300                             | 0           | 225                               | 0           |
| C. 8-INCH ID   | Per Casing         |          | 200                 | 0           | 180                      | 0           | 325                             | 0           | 250                               | 0           |
| 14B ABOVE GRADE  |                    |          |                     |             |                          |             |                                 |             |                                   |             |
| (1) 6-Foot Protective Surface Casing, with Locking Cover, DrainHole set in a 2X2 foot cement pad extending at least a foot below ground surface. |                    |          |                     |             |                          |             |                                 |             |                                   |             |
| A. 4-INCH ID   | Per Casing         | 4        | 200                 | 800         | 150                      | 600         | 275                             | 1,100       | 200                               | 800         |
| B. 6-INCH ID   | Per Casing         |          | 250                 | 0           | 175                      | 0           | 300                             | 0           | 225                               | 0           |
| C. 8-INCH ID   | Per Casing         |          | 300                 | 0           | 200                      | 0           | 325                             | 0           | 250                               | 0           |
| 14C KEYED ALIKE LOCKS  | Per Lock           | 4        | 10                  | 40          | 12                       | 48          | 12                              | 48          | 19                                | 76          |
| 15 CONTAINERIZATION OF DRILLING MATERIAL AND STAGING (ON PALLETS)  |                    |          |                     |             |                          |             |                                 |             |                                   |             |
| A. PROVIDE CLEAN EMPTY DOT APPROVED 55 GALLON DRUMS WITH SEALS, BUNGS, AND LIDS  | Per 55 Gallon Drum |          | 50                  | 0           | 30                       | 0           | 30                              | 0           | 45                                | 0           |
| B. PROVIDE CONTAMINMENT AND STAGING OF DISPOSABLE PPE CLOTHING ONSITE ON PALLETS   | Per 55 Gallon Drum |          | 50                  | 0           | 35                       | 0           | 45                              | 0           | 45                                | 0           |
| C. FILLING, MOVING, STAGING 55 GALLON DRUMS ON-SITE ON PALLETS   | Per 55 Gallon Drum |          | 75                  | 0           | 30                       | 0           | 45                              | 0           | 45                                | 0           |
| D. MOVE FILLED DRUMS TO SECONDARY LOCATION WITHIN 1 MILE OF DRILL SITE   | Per 55 Gallon Drum |          | 100                 | 0           | 35                       | 0           | 55                              | 0           | 45                                | 0           |
| 16 WELL DEVELOPMENT  |                    |          |                     |             |                          |             |                                 |             |                                   |             |
| A. BAILING   | Per Hour           | 16       | 45                  | 0           | 130                      | 0           | 160                             | 0           | 140                               | 0           |
| B. PUMP AND SURGE (submersible, centrifugal)   | Per Hour           |          | 65                  | 1,040       | 150                      | 2,400       | 160                             | 2,560       | 140                               | 2,240       |
| C. AIR LIFTING   | Per Hour           |          | 110                 | 0           | 150                      | 0           | 160                             | 0           | 140                               | 0           |
| 17 WELL ABANDONMENT  |                    |          |                     |             |                          |             |                                 |             |                                   |             |
| A. 2-INCH DIAMETER WELL  | Per Foot           |          | 5                   | 0           | 18                       | 0           | 5                               | 0           | 20                                | 0           |
| B. 4-INCH DIAMETER WELL  | Per Foot           |          | 7                   | 0           | 24                       | 0           | 8                               | 0           | 25                                | 0           |
| C. 6-INCH DIAMETER WELL  | Per Foot           |          | 10                  | 0           | 32                       | 0           | 10                              | 0           | 30                                | 0           |
| D. 8-INCH DIAMETER WELL  | Per Foot           |          | 15                  | 0           | 40                       | 0           | 12                              | 0           | 35                                | 0           |
| 18 BULLDOZER WITH OPERATOR FOR CLEARING/SITE ACCESS (bulldozer with 6 foot blade)  |                    |          |                     |             |                          |             |                                 |             |                                   |             |
| A. MOBILIZATION AND DEMOBILIZATION   | Lump Sum           |          | TBD                 | 0           | 450                      | 0           | 650                             | 0           | TBD                               | 0           |
| B. ON SITE OPERATION   | Per Hour           |          | 110                 | 0           | 80                       | 0           | 125                             | 0           | 125                               | 0           |
| C. DECONTAMINATION BETWEEN LOCATIONS   | Lump Sum           |          | 110                 | 0           | 150                      | 0           | 80                              | 0           | 150                               | 0           |
|  | Per Location       |          |                     |             |                          |             |                                 |             |                                   |             |
| 19 BACKHOE/ EXCAVATOR WITH OPERATOR FOR TEST PIT/ TRENCH EXCAVATION  |                    |          |                     |             |                          |             |                                 |             |                                   |             |
| A. MOBILIZATION AND DEMOBILIZATION   | Lump Sum           | 1        | 400                 | 400         | 450                      | 450         | 650                             | 650         | TBD                               | 0           |
| B. RUBBER TIRE (10 FOOT EXCAVATION IN TRENCH)  | Per Hour           |          | 90                  | 0           | 75                       | 0           | 125                             | 0           | 125                               | 0           |
| C. TRACKED (20-FOOT EXCAVATION IN DEEP TRENCH)   | Per Hour           | 16       | 130                 | 2,080       | 125                      | 2,000       | 150                             | 2,400       | 300                               | 4,800       |
| D. DECONTAMINATION BETWEEN LOCATIONS   | Lump Sum           |          | 130                 | 0           | 150                      | 0           | 80                              | 0           | 150                               | 0           |
|  | Per Location       |          |                     |             |                          |             |                                 |             |                                   |             |
| 20 ONSITE RESTORATION  |                    |          |                     |             |                          |             |                                 |             |                                   |             |
| A. COMPACTED CLEANFILL   | Cubic Yard         |          | 15                  | 0           | 15                       | 0           | 12                              | 0           | 30                                | 0           |
| B. TOPSOIL   | Cubic Yard         |          | 30                  | 0           | 25                       | 0           | 12                              | 0           | 30                                | 0           |
| C. GRASS SEEDING   | Square Yard        |          | 10                  | 0           | 15                       | 0           | 0                               | 0           | 10                                | 0           |
| D. ASPHALT PAVING  | Bag (60 LBS)       |          | 20                  | 0           | 40                       | 0           | 12                              | 0           | 20                                | 0           |
| E. CONCRETE PAVING   | Bag (94 LBS)       |          | 30                  | 0           | 25                       | 0           | 12                              | 0           | 25                                | 0           |
| 21 SPECIALTY ITEMS   |                    |          |                     |             |                          |             |                                 |             |                                   |             |

| ITEM DESCRIPTION  | UNIT     | QUANTITY | Parratt-Wolff, Inc. |             | Nothnagle Drilling, Inc. |             | Uni-Tech Drilling Company, Inc. |             | Delta Well and Pump Company, Inc. |             |
|---|----------|----------|---------------------|-------------|--------------------------|-------------|---------------------------------|-------------|-----------------------------------|-------------|
|   |          |          | UNIT PRICE          | TOTAL PRICE | UNIT PRICE               | TOTAL PRICE | UNIT PRICE                      | TOTAL PRICE | UNIT PRICE                        | TOTAL PRICE |
| 21A Packer testing equipment including labor and equipment for testing using single or double packers, and interval gas sampling between straddle packer units                      |          |          |                     |             |                          |             |                                 |             |                                   |             |
| (1) NQ/NX DIAMETER BOREHOLE   | Per Hour |          | 190                 | 0           | 150                      | 0           | 180                             | 0           | NA                                | 0           |
| (2) HQ/HX DIAMETER BOREHOLE   | Per Hour |          | 190                 | 0           | 160                      | 0           | 180                             | 0           | NA                                | 0           |
| 21B PUMP TEST- Labor and equipment including one laborer, pump and generator to provide continuous pumping for a min. 4- hours test in a 100-foot well 100 feet of discharge piping |          |          |                     |             |                          |             |                                 |             |                                   |             |
| (1) 0-50 GALLON PER MINUTE TEST   | Per Hour |          | 65                  | 0           | 125                      | 0           | 150                             | 0           | 250                               | 0           |
| (2) 50-100 GALLON PER MINUTE TEST   | Per Hour |          | 90                  | 0           | 150                      | 0           | 150                             | 0           | 350                               | 0           |
| (3) 100-200 GALLON PER MINUTE TEST  | Per Hour |          | 125                 | 0           | 200                      | 0           | 150                             | 0           | 375                               | 0           |
| 21C WATER HAULING-When on-site water is insufficient or unavailable provide additional laborer and vehicle with minimum 500-gallon capacity to supply portable water to drill rig   | Per Day  | 2        | 250                 | 500         | 450                      | 900         | 450                             | 900         | 900                               | 1,800       |
| 22 STANDBY TIME   | Per Hour |          | 200                 | 0           | 150                      | 0           | 150                             | 0           | 130                               | 0           |
| 23 LABOR CHARGE for services not listed in the Price Quotation Schedule   | Per Hour |          |                     |             |                          |             |                                 |             |                                   |             |
| A. SUPERVISOR RATE  | Per Hour |          | 90                  | 0           | 75                       | 0           | 95                              | 0           | 75                                | 0           |
| B. LABORER RATE   | Per Hour |          | 65                  | 0           | 60                       | 0           | 65                              | 0           | 70                                | 0           |
| 24 HEALTH AND SAFETY  |          |          |                     |             |                          |             |                                 |             |                                   |             |
| A. Cost increment for level "C" protection (indicate which items would be affected)   | Percent  |          | 10%                 |             | 30%                      |             | 20%                             |             | 40%                               |             |
| B. Cost increment for level "B" protection (indicate which items would be affected)   | Percent  |          | 100%                |             | 50%                      |             | 30%                             |             | 100%                              |             |
| 25 Price Increase or Optional Additional 12 month period (indicate which items would be affected)   | Percent  |          | 0.0%                |             | 2.0%                     |             | 1.5%                            |             | 3.0%                              |             |
| TOTAL   |          |          |                     | 11,250      |                          | 11,768      |                                 | 14,662      |                                   | 16,461      |

NA: Not available.

TBD: To be determined for each work assignment



**SCHEDULE 2.11 (f)2**  
**UNIT PRICE SUBCONTRACTS**  
**Trimmer Road Site**  
**Work Assignment Number D003600-42**

| NAME OF SUBCONTRACTOR | SERVICES TO BE PERFORMED | SUBCONTRACT PRICE | MANAGEMENT FEE |
|-----------------------|--------------------------|-------------------|----------------|
| Parratt-Wolff, Inc.   | Well Installation        | \$11,250          | \$394          |

| Contract Item number   | Max. Reimbursement Rate | Estimated No. of Units | Total Estimated Costs |
|--|-------------------------|------------------------|-----------------------|
| 1. A. MOBILIZATION/DEMOBILIZATION, INCLUDING SITE SET UP, SITE BREAKDOWN, CLEANUP, REPAIR, INITIAL AND FINAL EQUIPMENT DECONTAMINATION, TRAVEL, LODGING, MEALS AND LABOR FOR SITE RESTORATION. | \$600 Lump Sum          | 1 Lump Sum             | \$600                 |
| B. CONSTRUCTION AND REMOVAL OF DECON PAD   | 400 Lump Sum            | 1 Lump Sum             | 400                   |
| C. WELL/BORING SET-UP  | 200 Per Well/Boring     | 4 Per Well/Boring      | 800                   |
| 2 DRILLING TECHNIQUES  |                         |                        |                       |
| 2A. HOLLOW STEM AUGER  |                         |                        |                       |
| (1) 0-50 FEET IN DEPTH   |                         |                        |                       |
| A. 2.25- In. ID HSA  | 12 Lineal Foot          | Lineal Foot            | 0                     |
| B. 3.25- In. ID HSA  | 12 Lineal Foot          | Lineal Foot            | 0                     |
| C. 4.25- In. ID HSA  | 13 Lineal Foot          | 70 Lineal Foot         | 910                   |
| D. 6.25- In. ID HSA  | 16 Lineal Foot          | Lineal Foot            | 0                     |
| E. 8.25- In. ID HSA  | 24 Lineal Foot          | Lineal Foot            | 0                     |
| (2) 50-100 FEET IN DEPTH   |                         |                        |                       |
| A. 3.25- In. ID HSA  | 13 Lineal Foot          | Lineal Foot            | 0                     |
| B. 4.25- In. ID HSA  | 15 Lineal Foot          | Lineal Foot            | 0                     |
| C. 6.25- In. ID HSA  | 20 Lineal Foot          | Lineal Foot            | 0                     |
| D. 8.25- In. ID HSA  | NA Lineal Foot          | Lineal Foot            | 0                     |
| (3) 100-200 FEET IN DEPTH  |                         |                        |                       |
| A. 3.25- In. ID HSA  | NA Lineal Foot          | Lineal Foot            | 0                     |
| B. 4.25- In. ID HSA  | NA Lineal Foot          | Lineal Foot            | 0                     |
| C. 6.25- In. ID HSA  | NA Lineal Foot          | Lineal Foot            | 0                     |
| 2B CABLE TOOL- Flush Joint or Coupled Casing   |                         |                        |                       |
| 2C SPIN TEMPORARY FLUSH JOINT CASTING  |                         |                        |                       |
| 2D. MUD ROTARY   |                         |                        |                       |
| (1) 0-50 FEET IN DEPTH   |                         |                        |                       |
| A. 4-INCH DIAMETER BIT   | 30 Lineal Foot          | Lineal Foot            | 0                     |
| B. 6-INCH DIAMETER BIT   | 40 Lineal Foot          | Lineal Foot            | 0                     |
| C. 8-INCH DIAMETER BIT   | 60 Lineal Foot          | Lineal Foot            | 0                     |
| D. 10-INCH DIAMETER BIT  | 80 Lineal Foot          | Lineal Foot            | 0                     |
| (2) 50-100 FEET IN DEPTH   |                         |                        |                       |
| A. 4-INCH DIAMETER BIT   | 35 Lineal Foot          | Lineal Foot            | 0                     |
| B. 6-INCH DIAMETER BIT   | 45 Lineal Foot          | Lineal Foot            | 0                     |
| C. 8-INCH DIAMETER BIT   | 65 Lineal Foot          | Lineal Foot            | 0                     |
| D. 10-INCH DIAMETER BIT  | 90 Lineal Foot          | Lineal Foot            | 0                     |
| (3) 100-200 FEET IN DEPTH  |                         |                        |                       |
| A. 4-INCH DIAMETER BIT   | 35 Lineal Foot          | Lineal Foot            | 0                     |
| B. 6-INCH DIAMETER BIT   | 45 Lineal Foot          | Lineal Foot            | 0                     |
| C. 8-INCH DIAMETER BIT   | 65 Lineal Foot          | Lineal Foot            | 0                     |
| D. 10-INCH DIAMETER BIT  | 90 Lineal Foot          | Lineal Foot            | 0                     |
| (4) GREATER THAN 200 FEET IN DEPTH   |                         |                        |                       |
| A. 4-INCH DIAMETER BIT   | 40 Lineal Foot          | Lineal Foot            | 0                     |
| B. 6-INCH DIAMETER BIT   | 50 Lineal Foot          | Lineal Foot            | 0                     |
| C. 8-INCH DIAMETER BIT   | 70 Lineal Foot          | Lineal Foot            | 0                     |
| 2E. AIR ROTARY   |                         |                        |                       |

|  |     |             |       |
|--|-----|-------------|-------|
| 3. ROCK CORING   |     |             |       |
| (1) 0-50 FEET IN DEPTH   |     |             |       |
| A. NX-CORING   | 40  | Lineal Foot | 0     |
| B. HX-CORING   | 50  | Lineal Foot | 1,500 |
| C. NQ-CORING   | 40  | Lineal Foot | 0     |
| D. HQ-CORING   | 50  | Lineal Foot | 0     |
| (2) 50-100 FEET IN DEPTH   |     |             |       |
| A. NX-CORING   | 40  | Lineal Foot | 0     |
| B. HX-CORING   | 50  | Lineal Foot | 0     |
| C. NQ-CORING   | 40  | Lineal Foot | 0     |
| D. HQ-CORING   | 50  | Lineal Foot | 0     |
| (3) 100-200 FEET IN DEPTH  |     |             |       |
| A. NX-CORING   | 40  | Lineal Foot | 0     |
| B. HX-CORING   | 50  | Lineal Foot | 0     |
| C. NQ-CORING   | 40  | Lineal Foot | 0     |
| D. HQ-CORING   | 50  | Lineal Foot | 0     |
| (4) GREATER THAN 200 FEET IN DEPTH                                   |     |             |       |
| A. NX-CORING   | 40  | Lineal Foot | 0     |
| B. HX-CORING   | 50  | Lineal Foot | 0     |
| 4 ROLLER BIT REAMING NX/NQ CORE HOLE TO 4-INCH DIAMETER              |     |             |       |
| 5 ROLLER BIT REAMING NX/NQ CORE HOLE TO 6-INCH DIAMETER              |     |             |       |
| 6 BORE HOLE SAMPLING   |     |             |       |
| 6A. SPLIT SPOON SAMPLING   |     |             |       |
| (1) 0-50 FEET IN DEPTH   |     |             |       |
| A. 2-INCH OD   | 20  | Per Sample  | 540   |
| B. 3-INCH OD   | 30  | Per Sample  | 0     |
| (2) 50-100 FEET IN DEPTH   |     |             |       |
| A. 2-INCH OD   | 30  | Per Sample  | 0     |
| B. 3-INCH OD   | 45  | Per Sample  | 0     |
| (3) 100-200 FEET IN DEPTH  |     |             |       |
| A. 2-INCH OD   | 45  | Per Sample  | 0     |
| B. 3-INCH OD   | 60  | Per Sample  | 0     |
| (4) GREATER THAN 200 FEET IN DEPTH                                   |     |             |       |
| A. 2-INCH OD   | 150 | Per Sample  | 0     |
| B. 3-INCH OD   | 200 | Per Sample  | 0     |
| 6B SHELBY TUBE SAMPLING  |     |             |       |
| 6C HYDRO PUNCH SAMPLING  |     |             |       |
| 7 BOREHOLE ABANDONMENT   |     |             |       |
| 8 WELL SCREEN  |     |             |       |
| 8A SCHEDULE 40 PVC   |     |             |       |
| A. 1-INCH ID   | 2   | Per Foot    | 0     |
| B. 2-INCH ID   | 8   | Per Foot    | 160   |
| C. 4-INCH ID   | 10  | Per Foot    | 0     |
| D. 6-INCH ID   | 20  | Per Foot    | 0     |
| E. 8-INCH ID   | 30  | Per Foot    | 0     |
| 8B SCHEDULE 80 PVC   |     |             |       |
| 8C. STAINLESS, SCHEDULE 5, TYPE 304                                  |     |             |       |
| A. 2-INCH ID   | 15  | Per Foot    | 0     |
| B. 4-INCH ID   | 30  | Per Foot    | 0     |
| C. 6-INCH ID   | 60  | Per Foot    | 0     |
| 8D PRE-SAND PACKED STAINLESS STEEL WELL SCREEN, SCHEDULE 5, TYPE 304 |     |             |       |

|     |  |     |                       |                       |                  |
|-----|--|-----|-----------------------|-----------------------|------------------|
| 9   | WELL RISER   |     |                       |                       |                  |
| 9A. | SCHEDULE 40 PVC  |     |                       |                       |                  |
|     | A. 1-INCH ID   | 2   | Per Foot              | Per Foot              | 0                |
|     | B. 2-INCH ID   | 4   | Per Foot              | 10                    | Per Foot 40      |
|     | C. 4-INCH ID   | 6   | Per Foot              |                       | Per Foot 0       |
|     | D. 6-INCH ID   | 15  | Per Foot              |                       | Per Foot 0       |
|     | E. 8-INCH ID   | 25  | Per Foot              |                       | Per Foot 0       |
| 9B. | SCHEDULE 80 PVC  |     |                       |                       |                  |
| 9C  | STAINLESS, SCHEDULE 5, TYPE 304  |     |                       |                       |                  |
| 10  | WELL SCREEN SANDPACK MATERIAL<br>(No.00 TO No. 2 SIZE SAND)  | 15  | Bag (94 LBS)          | 12                    | Bag (94 LBS) 180 |
| 11  | BENTONITE  |     |                       |                       |                  |
|     | A. PELLETS   | 50  | 5 Gallon Pail         | 5 Gallon Pail         | 0                |
|     | B. POWDER  | 15  | Bag (50 LBS)          | Bag (50 LBS)          | 0                |
|     | C. GRANULAR  | 20  | Bag (50 LBS)          | 4                     | Bag (50 LBS) 80  |
| 12  | GROUT  |     |                       |                       |                  |
|     | A. PORTLAND CEMENT TYPE-I  | 30  | Bag (94 LBS)          | Bag (94 LBS)          | 0                |
|     | B. PORTLAND CEMENT TYPE-II   | 30  | Bag (94 LBS)          | 6                     | Bag (94 LBS) 180 |
| 13  | INSTALLATION OF OUTER CASING FOR MULTI-CASED WELLS   |     |                       |                       |                  |
|     | (1) SCHEDULE 40 PVC  |     |                       |                       |                  |
|     | A. 4-INCH DIAMETER   | 20  | Per Foot              | Per Foot              | 0                |
|     | B. 6-INCH DIAMETER   | 30  | Per Foot              | Per Foot              | 0                |
|     | C. 8-INCH DIAMETER   | 40  | Per Foot              | Per Foot              | 0                |
|     | D. 10-INCH DIAMETER  | 50  | Per Foot              | Per Foot              | 0                |
|     | (2) SCHEDULE 80 PVC  |     |                       |                       |                  |
|     | (3) CARBON STEEL   |     |                       |                       |                  |
|     | A. 4-INCH DIAMETER   | 25  | Per Foot              | 40                    | Per Foot 1,000   |
|     | B. 6-INCH DIAMETER   | 30  | Per Foot              | Per Foot              | 0                |
|     | C. 8-INCH DIAMETER   | 40  | Per Foot              | Per Foot              | 0                |
|     | D. 10-INCH DIAMETER  | 50  | Per Foot              | Per Foot              | 0                |
| 14  | INSTALLATION OF PROTECTIVE CASINGS   |     |                       |                       |                  |
| 14A | FLUSH MOUNT SURFACE CASING   |     |                       |                       |                  |
|     | (1) FLUSH MOUNT WITH LOCKING COVER, DRAIN HOLE<br>SET IN A 2'X2' CONCRETE PAD EXTENDING AT<br>LEAST 6 INCHES BELOW GROUND SURFACE                      |     |                       |                       |                  |
|     | A. 4-INCH ID   | 200 | Per Casing            | Per Casing            | 0                |
|     | B. 6-INCH ID   | 200 | Per Casing            | Per Casing            | 0                |
|     | C. 8-INCH ID   | 200 | Per Casing            | Per Casing            | 0                |
| 14B | ABOVE GRADE  |     |                       |                       |                  |
|     | (1) 6-Foot Protective Surface Casing, with Locking Cover,<br>DrainHole set in a 2X2 foot cement pad extending at least<br>a foot below ground surface. |     |                       |                       |                  |
|     | A. 4- INCH ID  | 200 | Per Casing            | 4                     | Per Casing 800   |
|     | B. 6-INCH ID   | 250 | Per Casing            | Per Casing            | 0                |
|     | C. 8-INCH ID   | 300 | Per Casing            | Per Casing            | 0                |
| 14C | KEYED ALIKE LOCKS  | 10  | Per Lock              | 4                     | Per Lock 40      |
| 15  | CONTAINERIZATION OF DRILLING MATERIAL AND<br>STAGING (ON PALLETS)  |     |                       |                       |                  |
|     | A. PROVIDE CLEAN EMPTY DOT APPROVED 55<br>GALLON DRUMS WITH SEALS, BUNGS, AND LIDS   | 50  | Per 55<br>Gallon Drum | Per 55<br>Gallon Drum | 0                |
|     | B. PROVIDE CONTAMINMENT AND STAGING OF USED<br>DISPOSABLE PPE CLOTHING ONSITE ON PALLETS   | 50  | Per 55<br>Gallon Drum | Per 55<br>Gallon Drum | 0                |
|     | C. FILLING, MOVING, STAGING 55 GALLON DRUMS<br>ON-SITE ON PALLETS  | 75  | Per 55<br>Gallon Drum | Per 55<br>Gallon Drum | 0                |
|     | D. MOVE FILLED DRUMS TO SECONDARY LOCATION<br>WITHIN 1 MILE OF DRILL SITE  | 100 | Per 55<br>Gallon Drum | Per 55<br>Gallon Drum | 0                |
| 16  | WELL DEVELOPMENT   |     |                       |                       |                  |

|                |   |       |              |    |              |          |
|----------------|---|-------|--------------|----|--------------|----------|
|                | A. BAILING  | 45    | Per Hour     |    | Per Hour     | 0        |
|                | B. PUMP AND SURGE (submersible, centrifugal)  | 65    | Per Hour     | 16 | Per Hour     | 1,040    |
|                | C. AIR LIFTING  | 110   | Per Hour     |    | Per Hour     | 0        |
| 17             | WELL ABANDONMENT  |       |              |    |              |          |
| 18             | BULLDOZER WITH OPERATOR FOR CLEARING/SITE ACCESS (bulldozer with 6 foot blade)  |       |              |    |              |          |
| 19             | BACKHOE/ EXCAVATOR WITH OPERATOR FOR TEST PIT/ TRENCH EXCAVATION  |       |              |    |              |          |
|                | A. MOBILIZATION AND DEMOBILIZATION  | 400   | Lump Sum     | 1  | Lump Sum     | 400      |
|                | B. RUBBER TIRE (10 FOOT EXCAVATION IN DEPTH)  | 90    | Per Hour     |    | Per Hour     | 0        |
|                | C. TRACKED (20-FOOT EXCAVATION IN DEPTH)  | 130   | Per Hour     | 16 | Per Hour     | 2,080    |
|                | D. DECONTAMINATION BETWEEN LOCATIONS  | 130   | Lump Sum     |    | Lump Sum     | 0        |
|                |   |       | Per Location |    | Per Location |          |
| 20             | ONSITE RESTORATION  |       |              |    |              |          |
| 21             | SPECIALTY ITEMS   |       |              |    |              |          |
| 21A            | Packer testing equipment including labor and equipment for testing using single or double packers, and interval gas sampling between straddle packer units                      |       |              |    |              |          |
|                | (1) NQ/NX DIAMETER BOREHOLE   | 190   | Per Hour     |    | Per Hour     | 0        |
|                | (2) HQ/HX DIAMETER BOREHOLE   | 190   | Per Hour     |    | Per Hour     | 0        |
| 21B            | PUMP TEST- Labor and equipment including one laborer, pump and generator to provide continuous pumping for a min. 4- hours test in a 100-foot well 100 feet of discharge piping |       |              |    |              |          |
|                | (1) 0-50 GALLON PER MINUTE TEST   | 65    | Per Hour     |    | Per Hour     | 0        |
|                | (2) 50-100 GALLON PER MINUTE TEST   | 90    | Per Hour     |    | Per Hour     | 0        |
|                | (3) 100-200 GALLON PER MINUTE TEST  | 125   | Per Hour     |    | Per Hour     | 0        |
| 21C            | WATER HAULING-When on-site water is insufficient or unavailable provide additional laborer and vehicle with minimum 500-gallon capacity to supply portable water to drill rig   | 250   | Per Day      | 2  | Per Day      | 500      |
| 22             | STANDBY TIME  | 200   | Per Hour     |    | Per Hour     | 0        |
| 23             | LABOR CHARGE for services not listed in the Price Quotation Schedule  |       | Per Hour     |    | Per Hour     |          |
|                | A. SUPERVISOR RATE  | 90    | Per Hour     |    | Per Hour     | 0        |
|                | B. LABORER RATE   | 65    | Per Hour     |    | Per Hour     | 0        |
| 24             | HEALTH AND SAFETY   |       |              |    |              |          |
| 25             | Price Increase or Optional Additional 12 month period (indicate which items would be affected)  | 0.00% | Percent      |    | Percent      |          |
| Subtotal       |   |       |              |    |              | \$11,250 |
| Management Fee |   |       |              |    |              | \$394    |
| Total          |   |       |              |    |              | \$11,644 |

**SCHEDULE 2.11 (f) 2**  
**UNIT PRICE SUBCONTRACTS**  
**Trimmer Road Site**  
**Work Assignment Number D003600-42**

| NAME OF SUBCONTRACTOR             |   | SERVICES TO BE PERFORMED   |                                 | SUBCONTRACT PRICE      |                       | MANAGEMENT FEE |
|-----------------------------------|---|----------------------------|---------------------------------|------------------------|-----------------------|----------------|
| MITKEM, Inc. (MBE)                |   | Sample Analysis            |                                 | \$6,870                |                       | \$0            |
| Item                              | Method  | Maximum Reimbursement Rate | Expedited Turnaround Multiplier | Estimated No. of Units | Total Estimated Costs |                |
| <u>Surface Soils</u>              | VOCs  | OLMO4.2                    | \$110.00 /sample                | 1                      | 0                     | \$0            |
|                                   | SVOCs   | OLMO4.2                    | \$225.00 /sample                | 1                      | 0                     | \$0            |
|                                   | Pesticides/PCBs   | OLMO4.2                    | \$130.00 /sample                | 1                      | 0                     | \$0            |
|                                   | TAL Metals and Cyanide  | OLMO4.2                    | \$110.00 /sample                | 1                      | 0                     | \$0            |
| <u>Subsurface Soils</u>           | VOCs  | OLMO4.2                    | \$110.00 /sample                | 1                      | 0                     | \$0            |
|                                   | SVOCs   | OLMO4.2                    | \$225.00 /sample                | 1                      | 0                     | \$0            |
|                                   | Pesticides/PCBs   | OLMO4.2                    | \$130.00 /sample                | 1                      | 0                     | \$0            |
|                                   | TAL Metals and Cyanide  | OLMO4.2                    | \$110.00 /sample                | 1                      | 0                     | \$0            |
| <u>Ground Water</u>               | VOCs  | OLMO4.2                    | \$110.00 /sample                | 1                      | 10                    | \$1,100        |
| 1st round                         | SVOCs   | OLMO4.2                    | \$200.00 /sample                | 1                      | 0                     | \$0            |
|                                   | Pesticides/PCBs   | OLMO4.2                    | \$120.00 /sample                | 1                      | 0                     | \$0            |
|                                   | TAL Metals and Cyanide  | OLMO4.2                    | \$110.00 /sample                | 1                      | 10                    | \$1,100        |
| <u>Ground Water</u>               | VOCs  | OLMO4.2                    | \$110.00 /sample                | 1                      | 0                     | \$0            |
| additional                        | SVOCs   | OLMO4.2                    | \$200.00 /sample                | 1                      | 0                     | \$0            |
|                                   | Pesticides/PCBs   | OLMO4.2                    | \$120.00 /sample                | 1                      | 0                     | \$0            |
|                                   | TAL Metals and Cyanide  | OLMO4.2                    | \$110.00 /sample                | 1                      | 0                     | \$0            |
|                                   | Alkalinity  | EPA 310.1                  | \$15.00 /sample                 | 1                      | 0                     | \$0            |
|                                   | Anions (NO3, SO4, Cl, Br, F)                                    | EPA 300.0                  | \$75.00 /sample                 | 1                      | 0                     | \$0            |
|                                   | Cations (K, Na, Ca, Mg, Fe, Mn, Ba)                             | EPA 200.7                  | \$90.00 /sample                 | 1                      | 0                     | \$0            |
|                                   | Total Organic Carbon  | EPA 415.1                  | \$35.00 /sample                 | 1                      | 0                     | \$0            |
|                                   | Dissolved Organic Carbon  | EPA 415.1                  | \$45.00 /sample                 | 1                      | 0                     | \$0            |
|                                   | Total Dissolved Solids  | EPA 160.1                  | \$15.00 /sample                 | 1                      | 0                     | \$0            |
|                                   | Total Suspended Solids  | EPA 160.2                  | \$15.00 /sample                 | 1                      | 0                     | \$0            |
| <u>Soil Characteristics</u>       | Saturated hydraulic conductivity & soil-water characteristic cu |                            | \$650.00 /sample                | 1                      | 6                     | \$3,900        |
| <u>QA/QC Samples</u>              | Blanks  |                            |                                 |                        |                       |                |
|                                   | Trip Blanks   | OLMO4.2                    | \$110.00 /sample                | 1                      | 1                     | \$110          |
| <u>Groundwater</u>                | Matrix Spike  |                            |                                 |                        |                       |                |
|                                   | VOCs  | OLMO4.2                    | \$110.00 /sample                | 1                      | 1                     | \$110          |
|                                   | SVOCs   | OLMO4.2                    | \$225.00 /sample                | 1                      | 0                     | \$0            |
|                                   | Pesticides/PCBs   | OLMO4.2                    | \$130.00 /sample                | 1                      | 0                     | \$0            |
|                                   | Metals and Cyanide  | OLMO4.2                    | \$110.00 /sample                | 1                      | 1                     | \$110          |
|                                   | Matrix Spike Duplicate  |                            |                                 |                        |                       |                |
|                                   | VOCs  | OLMO4.2                    | \$110.00 /sample                | 1                      | 1                     | \$110          |
|                                   | SVOCs   | OLMO4.2                    | \$225.00 /sample                | 1                      | 0                     | \$0            |
|                                   | Pesticides/PCBs   | OLMO4.2                    | \$130.00 /sample                | 1                      | 0                     | \$0            |
|                                   | Metals and Cyanide  | OLMO4.2                    | \$110.00 /sample                | 1                      | 1                     | \$110          |
|                                   | Matrix Spike Blank  |                            |                                 |                        |                       |                |
|                                   | VOCs  | OLMO4.2                    | \$110.00 /sample                | 1                      | 1                     | \$110          |
|                                   | SVOCs   | OLMO4.2                    | \$225.00 /sample                | 1                      | 0                     | \$0            |
|                                   | Pesticides/PCBs   | OLMO4.2                    | \$130.00 /sample                | 1                      | 0                     | \$0            |
|                                   | Metals and Cyanide  | OLMO4.2                    | \$110.00 /sample                | 1                      | 1                     | \$110          |
| <u>Soil, Sediment</u>             | Matrix Spike  |                            |                                 |                        |                       |                |
|                                   | VOCs  | OLMO4.2                    | \$110.00 /sample                | 1                      | 0                     | \$0            |
|                                   | SVOCs   | OLMO4.2                    | \$225.00 /sample                | 1                      | 0                     | \$0            |
|                                   | Pesticides/PCBs   | OLMO4.2                    | \$130.00 /sample                | 1                      | 0                     | \$0            |
|                                   | Metals and Cyanide  | OLMO4.2                    | \$110.00 /sample                | 1                      | 0                     | \$0            |
|                                   | Matrix Spike Duplicate  |                            |                                 |                        |                       |                |
|                                   | VOCs  | OLMO4.2                    | \$110.00 /sample                | 1                      | 0                     | \$0            |
|                                   | SVOCs   | OLMO4.2                    | \$225.00 /sample                | 1                      | 0                     | \$0            |
|                                   | Pesticides/PCBs   | OLMO4.2                    | \$130.00 /sample                | 1                      | 0                     | \$0            |
|                                   | Metals and Cyanide  | OLMO4.2                    | \$110.00 /sample                | 1                      | 0                     | \$0            |
|                                   | Matrix Spike Blank  |                            |                                 |                        |                       |                |
|                                   | VOCs  | OLMO4.2                    | \$110.00 /sample                | 1                      | 0                     | \$0            |
|                                   | SVOCs   | OLMO4.2                    | \$225.00 /sample                | 1                      | 0                     | \$0            |
|                                   | Pesticides/PCBs   | OLMO4.2                    | \$130.00 /sample                | 1                      | 0                     | \$0            |
|                                   | Metals and Cyanide  | OLMO4.2                    | \$110.00 /sample                | 1                      | 0                     | \$0            |
| <b>SUBTOTAL</b>                   |   |                            |                                 |                        |                       | <b>\$6,870</b> |
| <b>SUBCONTRACT MANAGEMENT FEE</b> |   |                            |                                 |                        |                       | <b>\$0</b>     |
| <b>TOTAL</b>                      |   |                            |                                 |                        |                       | <b>\$6,870</b> |

**SCHEDULE 2.11 (f1)**

**UNIT PRICE SUBCONTRACTS**

Trimmer Road Site

Work Assignment Number D003600-42

| NAME OF SUBCONTRACTOR        | SERVICES TO BE PERFORMED                                       | SUBCONTRACT PRICE | MANAGEMENT FEE |                       |                  |                 |
|------------------------------|--|-------------------|----------------|-----------------------|------------------|-----------------|
|                              |  |                   |                | Maximum Reimbursement | Estimated No. of | Total Estimated |
|                              |  |                   |                | <u>Rate</u>           | <u>Units</u>     | <u>Costs</u>    |
| Jamaica Blue Print Co., Inc. | Reproduction Services  | \$8,831.55        | \$0.00         |                       |                  |                 |
| <b>Drawings</b>              |  |                   |                |                       |                  |                 |
| Item 1                       | Bound 30" by 42" Blue Prints, Each Set Consisting of 17 Sheets | \$18.58           |                | 8                     |                  | \$148.64        |
| Item 2                       | Bound 30" by 42" Blue Prints, Each Set Consisting of 17 Sheets | \$27.68           |                | 5                     |                  | \$138.40        |
| Item 3                       | Bound 30" by 42" Blue Prints, Each Set Consisting of 17 Sheets | \$11.65           |                | 83                    |                  | \$966.95        |
| <b>Specifications</b>        |  |                   |                |                       |                  |                 |
| Item 4                       | Bound Books, Each Consisting of 1000 Double-Sided Sheets       | \$118.30          |                | 8                     |                  | \$946.40        |
| Item 5                       | Bound Books, Each Consisting of 1000 Double-Sided Sheets       | \$119.08          |                | 5                     |                  | \$595.40        |
| Item 6                       | Bound Books, Each Consisting of 1000 Double-Sided Sheets       | \$72.72           |                | 83                    |                  | \$6,035.76      |
| <b>Total</b>                 |  |                   |                |                       |                  | \$8,831.55      |



Engineer: Dvirka & Bartilucci

Trimmer Road Site

Work Assignment Number D003600-42

SCHEDULE 2.11(g) SUPPLEMENTAL  
MONTHLY COST CONTROL REPORT  
SUBCONTRACTS

Page 2 of 7  
Date Prepared:  
Billing Period:  
Invoice No.:

| Subcontract Name                         | Subcontract<br>Costs claimed this<br>Application | Subcontract<br>Costs Approved<br>for Payment on<br>Previous<br>Application | Subcontract<br>Costs to<br>Date<br>(A plus B) | Subcontract<br>Approved<br>Budget | Management<br>Fee<br>Budget | Management<br>Fee<br>Paid | Total<br>Costs<br>To Date |
|--|--|--|---|-----------------------------------|-----------------------------|---------------------------|---------------------------|
|  | Incl. Resubmittals                               |  |   |                                   |                             |                           |                           |
| 1 Om Popli, Inc. (MBE) Survey new points | 0.00   | 0.00   | 0.00  | \$1,120                           |                             |                           |                           |
| 2 Om Popli, Inc. (MBE) Additional Contou | 0.00   | 0.00   | 0.00  | \$2,850                           |                             |                           |                           |
| 3 Ecotree Design Support                 | 0.00   | 0.00   | 0.00  | \$29,534                          |                             |                           |                           |
| 4 Ecologic (WBE) Field assistance        | 0.00   | 0.00   | 0.00  | \$1,226                           |                             |                           |                           |
| 5 Parratt-Wolff, Inc. Well Installation  | 0.00   | 0.00   | 0.00  | \$11,250                          | \$394                       |                           |                           |
| 6 MITKEM, Inc. (MBE) Sample Analysis     | 0.00   | 0.00   | 0.00  | \$6,870                           | \$0                         |                           |                           |
| 7 Jamaica Blue Print Co. Reproduction    | 0.00   | 0.00   | 0.00  | \$8,832                           | \$0                         |                           |                           |
| 8  | 0.00   | 0.00   | 0.00  | \$0                               | \$0                         |                           |                           |
| Total                                    |  |  |   | \$61,682                          | \$394                       |                           |                           |



Work Assignment Number D003600-42

Date Prepared:

Task No./Name: 1/Work Plan Development

Billing Period:

Complete: 0.00%

Invoice No.:

| MONTHLY COST CONTROL REPORT<br>SUMMARY OF FISCAL INFORMATION |                                      |                         |                                     |  |  |  |                         |   |
|--|--------------------------------------|-------------------------|-------------------------------------|--|--|--|-------------------------|---|
|  | A<br>Costs<br>Claimed<br>This Period | B<br>Paid<br>To<br>Date | C<br>Total<br>Disallowed<br>To Date | D<br>Total Costs<br>Incurred To<br>Date (A+B+B1) | E<br>Estimated<br>Costs To<br>Completion | F<br>Total Work<br>Assignment<br>Price (A+B+E) | G<br>Approved<br>Budget | H<br>Estimated<br>Under/(Over)<br>(G-F) |
| 1. Direct Salary<br>Costs                                    | 0.00                                 | 0.00                    | 0.00                                | 0.00   | 0.00                                     | 0.00   | \$4,747                 | 0.00                                    |
| 2. Indirect  | 0.00                                 | 0.00                    | 0.00                                | 0.00   | 0.00                                     | 0.00   | \$7,514                 | 0.00                                    |
| 3. Subtotal Direct<br>Salary Costs<br>and Indirect Costs     | 0.00                                 | 0.00                    | 0.00                                | 0.00   | 0.00                                     | 0.00   | \$12,260                | 0.00                                    |
| 4. Travel  | 0.00                                 | 0.00                    | 0.00                                | 0.00   | 0.00                                     | 0.00   | \$633                   | 0.00                                    |
| 5. Other Non-<br>Salary Costs                                | 0.00                                 | 0.00                    | 0.00                                | 0.00   | 0.00                                     | 0.00   | \$180                   | 0.00                                    |
| 6. Subtotal Direct<br>Non-Salary Costs                       | 0.00                                 | 0.00                    | 0.00                                | 0.00   | 0.00                                     | 0.00   | \$813                   | 0.00                                    |
| 7. Subcontractors  | 0.00                                 | 0.00                    | 0.00                                | 0.00   | 0.00                                     | 0.00   | \$0                     | 0.00                                    |
| 8. Total Work<br>Assignment Cost                             | 0.00                                 | 0.00                    | 0.00                                | 0.00   | 0.00                                     | 0.00   | \$13,073                | 0.00                                    |
| 9. Fixed Fee   | 0.00                                 | 0.00                    | 0.00                                | 0.00   | 0.00                                     | 0.00   | \$1,030                 | 0.00                                    |
| 10. Total Work<br>Assignment Price                           | 0.00                                 | 0.00                    | 0.00                                | 0.00   | 0.00                                     | 0.00   | \$14,103                | 0.00                                    |

Project Manager (Engineer)

Date

Trimmer Road Site

Engineer: Dvirka & Bartilucci

Task No./Name: 2/Pre-Design Field Activities

Complete: 0.00%

SCHEDULE 2.11(g)

Page 4 of 7

Date Prepared:

Billing Period:

Invoice No.:

| MONTHLY COST CONTROL REPORT<br>SUMMARY OF FISCAL INFORMATION |                                      |                         |                                     |  |  |  |                         |   |
|--|--------------------------------------|-------------------------|-------------------------------------|--|--|--|-------------------------|---|
|  | A<br>Costs<br>Claimed<br>This Period | B<br>Paid<br>To<br>Date | C<br>Total<br>Disallowed<br>To Date | D<br>Total Costs<br>Incurred To<br>Date (A+B+B1) | E<br>Estimated<br>Costs To<br>Completion | F<br>Total Work<br>Assignment<br>Price (A+B+E) | G<br>Approved<br>Budget | H<br>Estimated<br>Under/(Over)<br>(G-F) |
| 1. Direct Salary<br>Costs                                    | 0.00                                 | 0.00                    | 0.00                                | 0.00   | 0.00                                     | 0.00   | \$8,549                 | 0.00                                    |
| 2. Indirect  | 0.00                                 | 0.00                    | 0.00                                | 0.00   | 0.00                                     | 0.00   | \$13,532                | 0.00                                    |
| 3. Subtotal Direct<br>Salary Costs<br>and Indirect Costs     | 0.00                                 | 0.00                    | 0.00                                | 0.00   | 0.00                                     | 0.00   | \$22,081                | 0.00                                    |
| 4. Travel  | 0.00                                 | 0.00                    | 0.00                                | 0.00   | 0.00                                     | 0.00   | \$2,825                 | 0.00                                    |
| 5. Other Non-<br>Salary Costs                                | 0.00                                 | 0.00                    | 0.00                                | 0.00   | 0.00                                     | 0.00   | \$1,780                 | 0.00                                    |
| 6. Subtotal Direct<br>Non-Salary Costs                       | 0.00                                 | 0.00                    | 0.00                                | 0.00   | 0.00                                     | 0.00   | \$4,605                 | 0.00                                    |
| 7. Subcontractors  | 0.00                                 | 0.00                    | 0.00                                | 0.00   | 0.00                                     | 0.00   | \$23,710                | 0.00                                    |
| 8. Total Work<br>Assignment Cost                             | 0.00                                 | 0.00                    | 0.00                                | 0.00   | 0.00                                     | 0.00   | \$50,396                | 0.00                                    |
| 9. Fixed Fee   | 0.00                                 | 0.00                    | 0.00                                | 0.00   | 0.00                                     | 0.00   | \$1,855                 | 0.00                                    |
| 10. Total Work<br>Assignment Price                           | 0.00                                 | 0.00                    | 0.00                                | 0.00   | 0.00                                     | 0.00   | \$52,250                | 0.00                                    |

Project Manager (Engineer)

Date

| MONTHLY COST CONTROL REPORT<br>SUMMARY OF FISCAL INFORMATION |                                      |                         |                                     |  |  |  |                         |   |
|--|--------------------------------------|-------------------------|-------------------------------------|--|--|--|-------------------------|---|
|  | A<br>Costs<br>Claimed<br>This Period | B<br>Paid<br>To<br>Date | C<br>Total<br>Disallowed<br>To Date | D<br>Total Costs<br>Incurred To<br>Date (A+B+B1) | E<br>Estimated<br>Costs To<br>Completion | F<br>Total Work<br>Assignment<br>Price (A+B+E) | G<br>Approved<br>Budget | H<br>Estimated<br>Under/(Over)<br>(G-F) |
| 1. Direct Salary<br>Costs                                    | 0.00                                 | 0.00                    | 0.00                                | 0.00   | 0.00                                     | 0.00   | \$27,151                | 0.00                                    |
| 2. Indirect  | 0.00                                 | 0.00                    | 0.00                                | 0.00   | 0.00                                     | 0.00   | \$42,980                | 0.00                                    |
| 3. Subtotal Direct<br>Salary Costs<br>and Indirect Costs     | 0.00                                 | 0.00                    | 0.00                                | 0.00   | 0.00                                     | 0.00   | \$70,131                | 0.00                                    |
| 4. Travel  | 0.00                                 | 0.00                    | 0.00                                | 0.00   | 0.00                                     | 0.00   | \$0                     | 0.00                                    |
| 5. Other Non-<br>Salary Costs                                | 0.00                                 | 0.00                    | 0.00                                | 0.00   | 0.00                                     | 0.00   | \$160                   | 0.00                                    |
| 6. Subtotal Direct<br>Non-Salary Costs                       | 0.00                                 | 0.00                    | 0.00                                | 0.00   | 0.00                                     | 0.00   | \$160                   | 0.00                                    |
| 7. Subcontractors  | 0.00                                 | 0.00                    | 0.00                                | 0.00   | 0.00                                     | 0.00   | \$38,366                | 0.00                                    |
| 8. Total Work<br>Assignment Cost                             | 0.00                                 | 0.00                    | 0.00                                | 0.00   | 0.00                                     | 0.00   | \$108,657               | 0.00                                    |
| 9. Fixed Fee   | 0.00                                 | 0.00                    | 0.00                                | 0.00   | 0.00                                     | 0.00   | \$5,891                 | 0.00                                    |
| 10. Total Work<br>Assignment Price                           | 0.00                                 | 0.00                    | 0.00                                | 0.00   | 0.00                                     | 0.00   | \$114,548               | 0.00                                    |

Project Manager (Engineer)

Date

Trimmer Road Site

Engineer: Dvirka & Bartilucci

Task No./Name: 4/Pre-Award Services

Complete: 0.00%

SCHEDULE 2.11(g)

Page 6 of 7

Date Prepared:

Billing Period:

Invoice No.:

| MONTHLY COST CONTROL REPORT<br>SUMMARY OF FISCAL INFORMATION |                                      |                         |                                     |  |  |  |                         |   |
|--|--------------------------------------|-------------------------|-------------------------------------|--|--|--|-------------------------|---|
|  | A<br>Costs<br>Claimed<br>This Period | B<br>Paid<br>To<br>Date | C<br>Total<br>Disallowed<br>To Date | D<br>Total Costs<br>Incurred To<br>Date (A+B+B1) | E<br>Estimated<br>Costs To<br>Completion | F<br>Total Work<br>Assignment<br>Price (A+B+E) | G<br>Approved<br>Budget | H<br>Estimated<br>Under/(Over)<br>(G-F) |
| 1. Direct Salary<br>Costs                                    | 0.00                                 | 0.00                    | 0.00                                | 0.00   | 0.00                                     | 0.00   | \$4,371                 | 0.00                                    |
| 2. Indirect  | 0.00                                 | 0.00                    | 0.00                                | 0.00   | 0.00                                     | 0.00   | \$6,919                 | 0.00                                    |
| 3. Subtotal Direct<br>Salary Costs<br>and Indirect Costs     | 0.00                                 | 0.00                    | 0.00                                | 0.00   | 0.00                                     | 0.00   | \$11,289                | 0.00                                    |
| 4. Travel  | 0.00                                 | 0.00                    | 0.00                                | 0.00   | 0.00                                     | 0.00   | \$614                   | 0.00                                    |
| 5. Other Non-<br>Salary Costs                                | 0.00                                 | 0.00                    | 0.00                                | 0.00   | 0.00                                     | 0.00   | \$680                   | 0.00                                    |
| 6. Subtotal Direct<br>Non-Salary Costs                       | 0.00                                 | 0.00                    | 0.00                                | 0.00   | 0.00                                     | 0.00   | \$1,294                 | 0.00                                    |
| 7. Subcontractors  | 0.00                                 | 0.00                    | 0.00                                | 0.00   | 0.00                                     | 0.00   | \$0                     | 0.00                                    |
| 8. Total Work<br>Assignment Cost                             | 0.00                                 | 0.00                    | 0.00                                | 0.00   | 0.00                                     | 0.00   | \$12,583                | 0.00                                    |
| 9. Fixed Fee   | 0.00                                 | 0.00                    | 0.00                                | 0.00   | 0.00                                     | 0.00   | \$948                   | 0.00                                    |
| 10. Total Work<br>Assignment Price                           | 0.00                                 | 0.00                    | 0.00                                | 0.00   | 0.00                                     | 0.00   | \$13,531                | 0.00                                    |

Project Manager (Engineer)

Date

Trimmer Road Site

Engineer: Dvirka & Bartilucci

Task No./Name: 5/Not Used

Complete: 0.00%

SCHEDULE 2.11(g)

Page 7 of 7

Date Prepared:

Billing Period:

Invoice No.:

| MONTHLY COST CONTROL REPORT<br>SUMMARY OF FISCAL INFORMATION |                                      |                         |                                     |  |  |  |   |
|--|--------------------------------------|-------------------------|-------------------------------------|--|--|--|---|
|  | A<br>Costs<br>Claimed<br>This Period | B<br>Paid<br>To<br>Date | C<br>Total<br>Disallowed<br>To Date | D<br>Total Costs<br>Incurred To<br>Date (A+B+B1) | E<br>Estimated<br>Costs To<br>Completion | F<br>Total Work<br>Assignment<br>Price (A+B+E) | H<br>Estimated<br>Under/(Over)<br>(G-F) |
| 1. Direct Salary<br>Costs                                    | 0.00                                 | 0.00                    | 0.00                                | 0.00   | 0.00                                     | 0.00   | 0.00                                    |
| 2. Indirect  | 0.00                                 | 0.00                    | 0.00                                | 0.00   | 0.00                                     | 0.00   | 0.00                                    |
| 3. Subtotal Direct<br>Salary Costs<br>and Indirect Costs     | 0.00                                 | 0.00                    | 0.00                                | 0.00   | 0.00                                     | 0.00   | 0.00                                    |
| 4. Travel  | 0.00                                 | 0.00                    | 0.00                                | 0.00   | 0.00                                     | 0.00   | 0.00                                    |
| 5. Other Non-<br>Salary Costs                                | 0.00                                 | 0.00                    | 0.00                                | 0.00   | 0.00                                     | 0.00   | 0.00                                    |
| 6. Subtotal Direct<br>Non-Salary Costs                       | 0.00                                 | 0.00                    | 0.00                                | 0.00   | 0.00                                     | 0.00   | 0.00                                    |
| 7. Subcontractors  | 0.00                                 | 0.00                    | 0.00                                | 0.00   | 0.00                                     | 0.00   | 0.00                                    |
| 8. Total Work<br>Assignment Cost                             | 0.00                                 | 0.00                    | 0.00                                | 0.00   | 0.00                                     | 0.00   | 0.00                                    |
| 9. Fixed Fee   | 0.00                                 | 0.00                    | 0.00                                | 0.00   | 0.00                                     | 0.00   | 0.00                                    |
| 10. Total Work<br>Assignment Price                           | 0.00                                 | 0.00                    | 0.00                                | 0.00   | 0.00                                     | 0.00   | 0.00                                    |

Project Manager (Engineer)

Date

Schedule 2.11 (h)

Date Prepared:  
Billing Period  
Invoice No.

Trimmer Road Site  
Work Assignment Number D003600-42

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

| NSPE Labor Classification | IX<br>EXP/EST | VIII<br>EXP/EST | VII<br>EXP/EST | VI<br>EXP/EST | V<br>EXP/EST | IV<br>EXP/EST | III<br>EXP/EST | I & II<br>EXP/EST | ADMIN/<br>SUPPORT | TOTAL NUMBER<br>OF DIRECT<br>LABOR HOURS<br>EXP/EST |
|---------------------------|---------------|-----------------|----------------|---------------|--------------|---------------|----------------|-------------------|-------------------|---|
| Task 1                    | 0/ 2          | 0/ 0            | 0/ 30          | 0/ 36         | 0/ 30        | 0/ 0          | 0/ 0           | 0/ 10             | 0/ 10             | 0/ 108  |
| Task 2                    | 0/ 4          | 0/ 0            | 0/ 0           | 0/ 36         | 0/ 164       | 0/ 0          | 0/ 8           | 0/ 14             | 0/ 14             | 0/ 226  |
| Task 3                    | 0/ 9          | 0/ 0            | 0/ 32          | 0/ 68         | 0/ 341       | 0/ 0          | 0/ 184         | 0/ 154            | 0/ 154            | 0/ 788  |
| Task 4                    | 0/ 3          | 0/ 0            | 0/ 1           | 0/ 16         | 0/ 48        | 0/ 0          | 0/ 40          | 0/ 14             | 0/ 14             | 0/ 122  |
| Task 5                    | 0/ 0          | 0/ 0            | 0/ 0           | 0/ 0          | 0/ 0         | 0/ 0          | 0/ 0           | 0/ 0              | 0/ 0              | 0/ 0  |
| Total Hours               | 0/ 18         | 0/ 0            | 0/ 63          | 0/ 156        | 0/ 583       | 0/ 0          | 0/ 232         | 0/ 192            | 0/ 192            | 0/ 1244   |

MBE/WBE  
UTILIZATION PLAN  
SUMMARY

Trimmer Road Site

Work Assignment Number D003600-42

| <u>Areas to be Subcontracted</u> | <u>Subcontractor Name</u>                                   | <u>MBE/WBE</u> | <u>Total<br/>Subcontract<br/>Value</u> | <u>% MBE/WBE<br/>Utilization</u> |
|----------------------------------|---|----------------|--|----------------------------------|
| Survey new points                | Om Popli, Inc. (MBE)  | MBE            | \$1,120                                | 0.6%                             |
| Additional Contours              | Om Popli, Inc. (MBE)  | MBE            | \$2,850                                | 1.5%                             |
| Sample Analysis                  | MITKEM, Inc. (MBE)  | MBE            | \$6,870                                | 3.5%                             |
| Field assistance                 | Ecologic (WBE)  | WBE            | \$1,226                                | 0.6%                             |
| 0                                | 0   | WBE            | \$0                                    | 0.0%                             |
| Total MBE Utilization            | <u>MBE Subcontract Value</u><br><u>Total Contract Value</u> | =              | <u>\$7,990</u><br><u>\$194,433</u>     | 4.1%                             |
| Total WBE Utilization            | <u>WBE Subcontract Value</u><br><u>Total Contract Value</u> | =              | <u>\$1,226</u><br><u>\$194,433</u>     | 0.6%                             |