REMEDIAL DESIGN WORK PLAN

93 MAIN STREET SITE BINGHAMTON, BROOME COUNTY, NEW YORK (SITE N0. 7-04-027)

WORK ASSIGNMENT NO. D003600-40

Prepared For

New York State Department of Environmental Conservation

SEPTEMBER 2004



RLA/JOBS/93MAINSTREET2217(06/22/04)



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September 1, 2004

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Dear Steve:

Please find enclosed five copies of the September 2004 Project Management Work Plan for the 93 Main Street Site Remedial Design Work Assignment for your review and approval.

If you have any questions or comments, please contact me at (315) 437-1142.

Very truly yours,

Jeule Gove

Associate

GG/gg Enclosures

cc: Mr. Kevin Sarnowicz, NYSDEC w/ enclosure

REMEDIAL DESIGN PROJECT MANAGEMENT WORK PLAN

93 MAIN STREET SITE SITE NO. 7-04-027 CITY OF BINGHAMTON BROOME COUNTY, NEW YORK

WORK ASSIGNMENT NO. D003600-40

PREPARED FOR

NEW YORK STATE DEPARTMENT OF ENVIRONMENTAL CONSERVATION

BY

DVIRKA AND BARTILUCCI CONSULTING ENGINEERS SYRACUSE, NEW YORK

SEPTEMBER 2004

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REMEDIAL DESIGN PROJECT MANAGEMENT WORK PLAN 93 MAIN STREET SITE CITY OF BINGHAMTON, NEW YORK

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Section 1

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 NYSDEC to provide design services for remediation of the 93 Main Street Site located in the City of Binghamton, Broome County, New York (see Figure 1-1). The 93 Main Street Site is a Class 2 New York State Superfund site, Registry No. 7-04-027. 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, 93 Main Street Site" has been prepared in accordance with NYSDEC 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.

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 NYSDEC to provide design services for remediation of the 93 Main Street Site located in the City of Binghamton, Broome County, New York (see Figure 1-1). The 93 Main Street Site is a Class 2 New York State Superfund site, Registry No. 7-04-027. The scope of work for this work assignment includes:

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Section 2

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2.0 BACKGROUND INFORMATION

2.1 Site Location and Description

The 93 Main Street Site is located in a mixed residential and commercial neighborhood in the City of Binghamton, Broome County, New York. The site is located on southwest corner of Main Street and Arthur Street and is covered with the concrete slab remains of former buildings, a poorly maintained driveway and dirt parking lot, weeds, and a fenced area containing the soil and drummed remains of previous investigations (see Figure 2-1). Areas of surface and subsurface soil contamination identified in previous investigations are centered around a dry well located on the 89-91 Main Street parcel and two drains on the 93 Main Street parcel. The site and surrounding area are served by a municipal water supply system.

2.2 Site History

The following site history is a summary of information obtained from previous investigations including the January 2000 *Remedial Investigation Report*, prepared by NYSDEC, the February 2000 *Feasibility Study Report*, prepared by NYSDEC, the March 2000 *Record of Decision*, prepared by NYSDEC, and the *Literature Search*, prepared by Pan-American Environmental, Inc., dated November 1998. Figure 2-2 presents a summary of previous investigation sample locations and results.

The McMahon Brothers Pest Control Company operated at the 93 Main Street Site from the 1950's to the 1980's and is believed to be responsible for the release of pesticide and herbicide related contaminants at the site. The site was reportedly used as a pesticide/herbicide storage and handling location for the company. There were also allegations of spills having taken place at the site. Several structures have occupied the site including a building housing the McMahon Brothers Pest Control Company. A former apartment building and a partially completed motel building were demolished by the City of Binghamton in September 1999.

2-1





CHAIN LINK FENCE

SITE BOUNDARY



Dvirka and Bartilucci d \bigcirc Consulting Engineers A Division of William F. Cosulich Associates, P.C. PREVIOUS INVESTIGATION SAMPLING RESULTS

Бмр

base

sep

main

C:\2217\93

SEP

2004

25,

MAR



SITE BOUNDARY

X-# (depth) date
analyte result
L = LABORATORY DATA F = FIELD DATA $X - \frac{H}{2}$ = BORING IDENTIFICATION depth = feet below grade with = certe below grade
readic - purta per minori (ppi

1.	GP-10(8-12)	11/3/98
-	chlordane	490 L
1	ODT	140 L
	2,4-D	ND

-1)	11/5/98	GP-31(19-20)	11/5/98
	>0.6 F	chlordane	>0.6 F
_	NA	DDT	>20 F
	1.5-7.5 F	2,4D	1.5-7.5 F

(12 - 13)	11/5/98
ine	>0.6 F
	>20 F
	1.5-7.5 F
(12 - 13)	11/5/98
ine	>0.6_F
	NA
	0.15-1.5 F

(4-5)	11/5/98
ne	>0.6 F
	NA
_	NA

SE,	11/18/98	TP-1 DW	11/18/98
	0.350	b(a)pyr	0.110
	0.170	delta-BHC	2.60
łC	0.430	g-chlordane	46.0
or	4.60	beryllium	0.34
	0.530	copper	30.8
	0.630	iron	16100
	0.650	nickel	17.5
Ť	4.00	zinc	185
lane	21.0		
1 –	0.4		
	31.5		



FIGURE 2-2

The NYSDEC investigated complaints that pesticide application equipment and drums containing pesticides were being stored at the site. There also were allegations of a drum being spilled behind the 93 Main Street building. In May 1989, NYSDEC sampled a drum that had been located on the 93 Main Street site, which was found to contain high concentrations of Silvex and 2,4-D. Herbicide spraying equipment was also discovered at the rear of the property.

In 1995, Gaynor Associates was hired by a financial institution to conduct a Phase II environmental audit for the 93 Main Street property. Soil samples were collected from outside the building at 93 Main Street. Analytical results showed elevated concentrations of herbicides and pesticides in the surface soil and beneath the asphalt parking area, including 2,4,5-T at 12,000 μ g/kg, 2,4-D at 4,030 μ g/kg and chlordane at 15,000 μ g/kg.

During the investigation, Gaynor reported that a back area of the building was used for pesticide storage and handling. This area had since been converted to apartments, and the concrete floor covered with tile or carpet. During the Gaynor study, strong pesticide odors were noted in the apartments. All buildings on-site have since been demolished.

In 1995, the City of Binghamton entered into a Voluntary Cleanup Agreement (VCA) with the NYSDEC to perform a limited investigation of the site. This investigation focused on the rear of the 93 Main Street building and consisted of Geoprobe sampling of soil and groundwater. The results of this investigation revealed elevated concentrations of pesticides, such as chlordane, aldrin, dieldrin and 2,4,5-T in groundwater and soil at the site. Most of the pesticide concentrations significant1y exceeded NYSDEC's groundwater standards. NYSDEC Recommended Soil Cleanup Objectives were also significantly exceeded. The presence of these pesticides at elevated levels indicate a threat to the area's sole source aquifer and is the basis for the site's Class 2 designation on the NYSDEC's Registry of Inactive Hazardous Waste Disposal Sites.

2-4

In January 2000, the NYSDEC completed a Remedial Investigation/Feasibility Study (RI/FS) to evaluate the contamination present at the site. The purpose of the RI was to define the nature and extent of contamination resulting from previous activities at the site.

The RI was conducted in two phases. The first phase was conducted between November 1998 and August 1999, and the second phase was conducted between September 1999 and November 1999. A report entitled "Remedial Investigation Report for the 93 Main Street Inactive Hazardous Waste Disposal Site" was prepared, which describes the field activities and findings of the RI.

The results of the RI indicated that the VOC contaminants of concern in soil and groundwater were xylene, ethylbenzene, tetrachloroethene, chlorobenzene, and 1,2-dichloroethane and the SVOC contaminants of concern were 1,2,4-trichlorobenzene, naphthalene, 2-methylnaphthalene, 2,4,5-trichlorophenol, 2,4-dichlorophenol, pentachlorophenol, phenol, 2-chlorophenol, 1,4-dichlorobenzene, 2-methylphenol and 4-nitrophenol, as well as the carcinogenic polyaromatic hydrocarbons (PAHs), benzo (a) anthracene, benzo (k) anthracene, chrysene, benzo (a) pyrene, bis (2-ethylhexyl) phthalate, benzo (b) fluoranthene and dibenzo (a,h) anthracene. The pesticide contaminants of concern identified were lindane, aldrin, dieldrin, 4,4'-DDT, 4,4-DDD, 4,4'-DDE, heptachlor, heptachlor epoxide, 2,4-D, chlordane, 4,4'-DDE, endrin, endosulfan I, endosulfan II, beta-BHC and delta BHC.

The remedial goals, as described in the March 2000 Record of decision, are to remediate subsurface soils to concentrations cited in NYSDEC Technical Administrative Guidance Memorandum (TAGM) 4046 "Determination of Soil Cleanup Objectives and Cleanup Levels" and groundwater to concentrations cited in NYSDEC Division of Water Technical and Operational Guidance Series (TOGS) 1.1.1 "Ambient Water Quality Standards and Guidance Values and Groundwater Effluent Limitations."

The elements of the selected remedy as contained in the March 2000 Record of Decision for the 93 Main Street Site are as follows:

- A remedial design program will be performed to verify the components of the conceptual design and provide the details necessary for the construction, operation and maintenance, and monitoring of the remedial program. This will include batch and/or pilot testing of oxidizing agents. Any uncertainties identified during the RI/FS will be resolved.
- The area surrounding the dry well on the 89-91 Main Street property will be excavated to a depth of 6 feet. Confirmatory samples will be collected from the walls and floor of the excavation to insure that all contaminated soil above remedial objectives is removed. Contaminated soil will be treated on site by chemical oxidation and/or disposed of off-site as appropriate. The excavation will be backfilled with suitable fill material determined to be free of site contaminants.
- Infiltration galleries will be constructed in each of the remaining areas of concern, as necessary, to facilitate application of the oxidizing agent to the contaminated subsurface soil. It is anticipated that injection wells will also be necessary to properly distribute the oxidizing agent to the lower portion of the contaminated subsurface soil. The infiltration galleries will consist of an excavated area directly above the area of contaminated subsurface soil, which will be filled with gravel to allow for rapid infiltration of the oxidizing agent. Injection wells will be constructed with materials amenable to the oxidizing agent and capable of injecting the oxidizer under pressure, if necessary.
- Groundwater extraction wells will be constructed in order to create a zone of hydraulic containment large enough to collect any leachate produced during treatment of the contaminated soil, as well as the natural groundwater flow in the area being treated. The extraction wells will be connected to a treatment system, which will allow for the removal of residual contamination by additional oxidation, carbon treatment or a combination of the two. In the event that hydraulic containment cannot be achieved, alternative methods of groundwater control will be evaluated, such as physical containment (i.e., slurry wall, grout curtain, etc.).
- A long term monitoring program will be implemented for groundwater and leachate. Preparation of an operations, maintenance and monitoring plan, including long term monitoring will be required of the successful bidder in the plans and specifications.

Investigation derived waste (IDW) left on site from previous investigations is curren.ly stored in drums and soil piles inside a locked chain link fence. The IDW will be remediated or disposed as a part of the site remediation described in this Remedial Design Work Plan.

Section 3

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 and New York State Department of Health (NYSDOH) 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 NYSDEC, dated January 2000.
- 2. *Feasibility Study Report*, prepared by NYSDEC, dated February 2000.
- 3. *Record of Decision*, prepared by NYSDEC, dated March 2000.
- 4. *Literature Search*, prepared by Panamerican Environmental, Inc., dated November 1998.

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 for the design of the remediation system, including the groundwater extraction and treatment system, and a chemical oxidation soil treatment system.

The pre-design field activities will consist of soil borings, monitoring well installations, water level monitoring, and groundwater and soil 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.

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LEGEND

CHAIN LINK FENCE SITE BOUNDARY MW11 MONITORING WELL - PROPOSED SB-1 SOIL BORING LOCATION - PROPOSED SS-1 SURFACE SOIL SAMPLE LOCATION - PROPOSED

20' 0' SCALE: 1'' = 40'

Table 3-1 **93 MAIN STREET SITE PRE-DESIGN STUDY** SAMPLING MATRIX

				Number of	
Program Element	Environmental Media	Sample Type/Depth	Equipment	Samples	Sample Analyses
Surface Soil Sampling	Surface Soil	(0 to 6 inches).	Disposable polyethylene or decontaminated stainless steel scoop.	8	Metals and Cyanide
Subsurface Soil Sampling	Subsurface Soil	Grab samples from borings.	Decontaminated split spoon or direct push sampler.	5	Grain size analysis
Subsurface Soil Sampling (Vertical delineation of contamination)	Subsurface Soil	Grab samples from borings at 4 ft intervals between 2 feet bgs and the water table (up to 4 per boring).	Decontaminated split spoon or direct push sampler.	36	TCL VOCs, SVOCs, Pesticides
Subsurface Soil Sampling (Soil characteristics for treatment design)	Subsurface Soil	Grab samples from borings.	Decontaminated split spoon or direct push sampler.	3	TAL Metals
Subsurface Soil Sampling (Soil disposal characteristics)	Subsurface Soil	Grab samples from borings.	Decontaminated split spoon or direct push sampler.	1	Toxicity Characteristic Leaching Procedure
Groundwater Sampling – 12 monitoring wells	Groundwater	At surface of water in well after purging well.	Disposable polyethylene bailer.	8	TCL VOCs, SVOCs, Pesticides, PCBs, TAL Metals and Cyanide
Groundwater Sampling – two samples from pumping test	Groundwater	Discharge point of piping during pumping test.	Disposable polyethylene bailer.	2	TCL VOCs, SVOCs, Pesticides, PCBs, TAL Metals and Cyanide, major anions and cations, TOC, DOC, TDS, TSS, pH
Investigation Derived Waste Sampling	Soil and Concrete Debris	Composite	Disposable polyethylene or decontaminated stainless steel scoop.	2	Toxicity Characteristic Leaching Procedure
Trip Blanks	Aqueous	Distilled water.	Sample supplied by laboratory.	2*	TCL VOCs
Matrix Spike/ Matrix Spike Duplicates	Aqueous	Groundwater (split of sample).	Sample container or disposable polyethylene bailer.	2**	TCL VOCs, SVOCs, Pesticides, PCBs, TAL Metals and Cyanide
Matrix Spike/ Matrix Spike Duplicates	Soil	Soil/sediment (split of sample).	Decontaminated split spoon or direct push sampler.	3**	TCL VOCs, SVOCs, Pesticides, PCBs, 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.

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3.2.1 Base Map Development

The base map to be utilized for this project was prepared by others and provided to D&B by the NYSDEC. Relevant features on the base map include former structures, roads, fences and existing monitoring wells. The base map will be used to plot all soil borings, monitoring wells and any other items of interest noted during the field activities.

3.2.2 Surface Soil Sampling

Results of previous investigations indicate that surface soil at the site is contaminated. In order to further delineate the nature and extent of surface soil contamination for the purpose of designing site remediation, eight surface soil samples (0-6 inches below ground surface) will be collected for laboratory analysis. The samples will be collected from three on-site locations, three off-site locations on an adjacent property, and two off-site background locations. All surface soil samples will be analyzed for Target Compound List (TCL) semivolatile organic compounds (SVOCs), TCL Pesticides/PCBs, Target Analyte List (TAL) metals and cyanide. Surface soil samples will be screened in the field for VOCs with a photoionization detector (PID).

3.2.3 Subsurface Soil Sampling

Nine soil borings will be constructed to collect overburden soil samples to determine subsurface soil quality, site geology and geotechnical characteristics. The soil borings will include one boring (SB-1) located near the former floor drain, one boring (SB-2) located in the vicinity of the former drain, one boring (SB-3) located near the former dry well and six borings (SB-4 through SB-9) in other areas of the site to be determined in the field. The soil borings will be advanced to approximately 25 feet below ground surface or 3 feet into the glacial till unit, whichever occurs first. Continuous split spoon samples will be collected from each boring, screened with a PID and logged for geotechnical characteristics, including standard penetration test results. Up to four samples from each boring will be collected for laboratory analyses at four-foot intervals between two feet below ground surface and the water table to delineate the vertical extent of contamination.

Five subsurface soil samples (one sample from each of five borings) representing the saturated gravel and sand aquifer unit will be selected for grain size analyses. Grain size analyses results will be used to characterize the hydraulic properties of the saturated subsurface as they relate to the design of chemical oxidant injection or groundwater extraction systems.

Thirty-six subsurface soil samples (four samples from each boring) will be analyzed for TCL VOCs, TCL SVOCs, TCL Pesticides to delineate the vertical extent of contamination. Three subsurface soil samples will be collected from representative borings and analyzed for TAL metals for use in evaluating the design of soil treatment technologies.

One subsurface soil sample will be analyzed for Toxicity Characteristic Leaching Procedure parameters (TCLP). This sample will be collected from the depth and location of the most highly contaminated portion of the subsurface as determined by field observations and results of the subsurface soil analyses described above. Results of the analysis will be used to evaluate soil disposal options for site remediation.

3.2.4 Investigation Derived Waste

Cuttings generated from the construction of the boreholes will be handled in accordance with <u>NYSDEC TAGM No. 4032</u> "Disposal of Drill Cuttings", dated November 1989. In general, this guidance document allows for on-site disposal of cuttings as long as certain criteria as to location and cover of cuttings are met. Soil cuttings will be staged inside the existing fenced enclosure for possible treatment during site remediation. A composite soil sample will be collected from investigation derived waste soil stored in drums from previous investigations and soil cuttings resulting from the pre-design investigation. An additional composite sample of concrete debris staged in the fenced enclosure will also be collected and analyzed. The two composite samples will be analyzed for TCLP parameters.

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3.2.5 Monitoring Well Installation, Development and Hydraulic Conductivity Testing

Two overburden monitoring wells (MW-11 and MW-12) will be installed to further delineate the nature and extent of groundwater contamination and the physical properties of aquifer materials. The monitoring well locations will be north-northeast of the former drain location. The overburden wells are anticipated to be approximately 30 feet deep and will be drilled using hollow stems augers. The wells will be completed at the base of the gravel and sand aquifer and immediately on top of the glacial till unit. The wells will be constructed with 4-inch inside diameter (ID) schedule 40 PVC wire wrapped screen and 4-inch ID Schedule 40 PVC riser for possible use as groundwater extraction wells during the pumping test (see Section 3.2.7) or remediation. Drill cuttings will be stored inside the fenced enclosure and treated during remediation as described in Section 3.2.2.

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. Water removed from the wells during well development will be contained in a 20,000-gallon frac tank to be located on the property. The contents of the frac tank will be removed following the pumping test and disposed off-site.

In-situ hydraulic conductivity values will be determined for each of the two new wells and ten existing wells by performing falling and rising head tests using the Bouwer and Rice method. Water displacement will be achieved by lowering a solid aluminum rod measuring 6 feet in length and 1-inch in diameter into the well. Changes in water level over time will be recorded using a pressure transducer and an electronic data logger. If the formation exhibits very slow recovery, the test may not be run until full recovery is achieved. Attempts will be made to allow the water to recover to at least two-thirds of the original level before stopping the test. All down-hole equipment will be decontaminated between wells.

3.2.6 Groundwater Elevation Monitoring and Sampling

Groundwater elevations in 12 monitoring wells, including the two new and ten existing monitoring wells, will be measured manually on a periodic basis during site activities. In addition, a rain gauge will be installed on-site to monitor precipitation. Groundwater and precipitation measurements will be coordinated, when possible, with other field activities, such as groundwater sampling, to minimize travel expenses. Water table and potentiometric surface maps will be developed based on synoptic water level measurements. These maps will be used to interpret groundwater flow direction under static conditions and to determine responses, if present, due to seasonal or precipitation variations.

Following the completion of monitoring wells, one round of groundwater samples will be collected. Eight of the 12 monitoring wells in the monitoring network will be selected for sampling based on field observations and the condition of the wells. The samples collected from the monitoring wells will be analyzed for TCL VOCs, TCL SVOCs, TCL pesticides/PCBs, TAL metals and cyanide.

3.2.7 Pumping Test

An aquifer test will be conducted by pumping water from monitoring well MW-11 to provide information to design the groundwater extraction and chemical oxidation injection system. The pumping test will be conducted for a period of 48 hours. Approximately 1 week prior to the test, selected on-site monitoring wells will be fitted with dedicated pressure transducers with data loggers (Trolls) to record static groundwater conditions. During the test, water levels in existing monitoring wells MW-1, MW-2, MW-3, MW-4, MW-5, MW-6, MW-7, MW-8, MW-9, MW-10 and MW-12 will be monitored using dedicated pressure transducers (e.g. Troll data loggers) and hand held water level measurement instruments (i.e. Solinst Water Level Indicator). Water levels will be measured to the nearest 0.01 feet at prescribed times during the pumping tests. Results of the pumping test will be used to determine the optimum extraction rates and configuration for the groundwater extraction system. Based on the aquifer

characteristics described in the RI, a flow rate of approximately 2 gallons per minute has been assumed and will produce approximately 6,000 gallons of contaminated water during the test. The pumped water will be temporarily stored in a frac tank to be located at the site. Following the pumping test, the water in the frac tank will be characterized for disposal. Possible disposal via the City sewer system or on-site injection will be evaluated for pumping test water, along with off-site disposal.

Two sets of groundwater samples will be collected from the pumping well. The sampling events will be conducted during different stages of the pumping test in order to evaluate groundwater quality variations under different pumping conditions. The results of the sampling will also be used to evaluate the contaminant concentrations during pumping and to design the groundwater treatment system. Groundwater samples will be analyzed for TCL VOCs, TCL SVOCs, TCL pesticides/PCBs, TAL metals, cyanide, major anions and cations, total organic carbon, dissolved organic carbon, total dissolved solids, total suspended solids and pH.

Pumping test data will be evaluated to determine aquifer characteristics, including aquifer continuity and hydraulic conductivity. The continuity, or cross connection between hydrogeologic units, will be evaluated by observing trends in water level elevations in the wells relative to the rate and time of water removal from the pumping well. The possible effects of precipitation, snowmelt or other hydrogeologic variations will be evaluated by observing local conditions and monitoring water levels in wells anticipated to be uninfluenced by the pumping well. Hydraulic conductivity of the hydrogeologic units will be calculated using time drawdown analyses and curve matching. A two-dimensional groundwater flow model will be prepared using site-specific data to evaluate and estimate the pumping well array necessary to inject and extract groundwater to maximize contaminant treatment and removal.

3.2.8 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 1 foot. This AutoCAD drawing will serve as the base map.

A land survey will be conducted to locate sample points, nearest sewer manhole and invert elevation, electrical service location and public water supply location as well as other important site features identified in the pre-design investigation. Upon completion of fieldwork, a New York State-licensed surveyor will establish the locations and elevations of each of the new monitoring wells and other sampling points. 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.

3.2.9 Data Usability Summary Report

D&B's Quality Assurance/Quality Control (QA/QC) Officer will perform a data usability analysis. A Data Usability Summary Report (DUSR) will be prepared, which will determine the adequacy of the data for environmental assessment and design purposes.

3.2.10 Engineering Design Report

An Engineering Design Report will be prepared after the completion of the field activities. The Engineering Design Report will present the results of the pre-design study including 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.

Additionally, the Engineering Design Report will present a description of the major elements of the project, the basis of design, and assumptions and uncertainties associated with the design effort. A draft Engineering Design Report will be submitted for NYSDEC review and comment. Included in this subtask is a telephone conference call with NYSDEC to review the draft report. The draft Engineering Design Report will be revised based on NYSDEC comments. Two copies of the final Engineering Design Report will be submitted to NYSDEC.

3.3 Task 3 – Bench Scale Treatability Studies and Pilot Study

Bench scale treatability studies and a pilot study will be conducted to determine the design parameters for the site. The studies will include a bench scale groundwater treatability study to evaluate chemical oxidation or carbon filtration for groundwater treatment, a bench scale soil treatability study for chemical oxidation, and a pilot study for chemical oxidation in soil.

A request for proposals (RFP) will be prepared to obtain price quotations for conducting the treatability studies and pilot study. In accordance with NYSDEC procurement procedures, proposals will be solicited from five vendors, if that number of qualified vendors can be identified. The RFP will be submitted to NYSDEC for review and approval prior to solicitation of proposals. A preliminary cost for the studies has been estimated at \$45,000 and is included in the project budget (see Section 8). The vendor and actual cost will be determined using the RFP process after the pre-design investigation data becomes available for evaluation.

The RFP will require information from the vendors with respect to their experience in conducting treatability studies and pilot studies, and full-scale projects that would provide the data required to determine the applicability of the proposed remediation technologies to the 93 Main Street Site.

The RFP will be in letter format, which will include the following sections:

- Project Description
- Contaminant Concentrations and Soil and Groundwater Characteristics (based on existing data)
- Project Objectives
- Minimum Treatability Study and Pilot Study Requirements
- Minimum Sampling Requirements
- Parameters to be Analyzed
- QA/QC Requirements
- Reporting Requirements
- Project Schedule

Each vendor will also be provided with a copy of D&B's standard subcontractor agreement and the master agreement with NYSDEC. Once the proposals have been received, they will be reviewed and recommendations will be provided to NYSDEC with regard to the selected vendor. Upon NYSDEC approval of the recommendations, an agreement will be finalized with the selected vendor.

3.4 Task 4 – Plans and Specifications (Contract Documents)

Draft and final performance based specifications and drawings will be prepared for the purpose of competitively bidding the remedial construction in conformance with the July 2000 NYSDEC Standard Contract Documents. The specifications 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.

3.4.1 <u>30-Percent Submittal</u>

The design documents will specify the requirements for groundwater and soil treatment, limits and depths of soil removal, remediation criteria, endpoint sampling requirements, fill material limits and specifications, specifications for site preparation/restoration and control of noise, odor, dust and soil erosion. Discharge management options for treated groundwater will be evaluated based on identifying a manhole to accept the discharge and preparing a letter to the sewer authority describing the proposed groundwater extraction and treatment system, estimated contaminant discharge concentrations and estimated discharge flow rate. The letter to the sewer authority, which will be provided in draft for review and comment by the Department prior to transmittal, will request approval for connection to an appropriate sewer manhole near the site. The 30-percent submittal will also contain contractor submittal requirements, including specifications for 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). In addition, the Contract Documents will contain a bid schedule, estimated quantities for each bid

item, contractor qualification and experience requirements, maximum time period for remediation and a cost estimate for the construction project.

Six copies of draft plans and specifications will be provided to NYSDEC for review and comment when the design is 30 percent complete. Supporting data, documentation and design calculations will be provided with the design documents in the form of a letter report. This information will include identification of potentially impacted property owners and parties with property rights, an updated tax property map, a preliminary list of temporary and permanent easements, rights-of-way and permits necessary to perform the remediation, and identification of all non-property permits with which the remediation must be in substantial compliance.

It should also be noted that D&B will verify that the Contract Documents contain specific requirements for submittal of a project schedule, MBE/WBE goals and bid forms. As stated above, the construction documents will be based upon the NYSDEC's July 2000 Standard Contract Documents.

3.4.2 60-Percent Submittal

The 60-percent 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 design is 60 percent complete. The 60-percent submittal will include a preliminary detailed construction cost estimate. The estimate will be prepared on a bid item basis as provided in the bid schedule in the Contract Documents in order to provide an estimate for each bid item. The estimated quantities on the bid schedule in the final Contract Documents will be utilized to provide a draft engineering cost estimate for the remedial construction project. Based upon the comments from the NYSDEC, D&B will revise and submit the final cost estimate to NYSDEC, which will be submitted with the final plans and specifications.

Three copies of the 60-percent submittal will be provided.

3.4.3 Final Plans and Specifications

NYSDEC comments will be incorporated into the final plans and specifications. The final plans and specifications will be sealed and signed by a professional engineer licensed to practice in New York State. In addition, a Limited Site Data Summary Report will be prepared. This report will describe site conditions and provide analytical data to assist bidders.

Six copies of the final design package and Limited Site Data Summary Report will be submitted to the NYSDEC for review, as well as an electronic copy in Portable Document Format (PDF). 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.

3.5 Task 5 - Pre-award Services (Optional)

If requested by the NYSDEC, 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 support the NYSDEC in advertising the project.

3.5.1 Pre-Bid Conference

D&B will assist the NYSDEC in conducting the pre-bid conference and site visit with prospective bidders. D&B will respond to technical questions regarding the plans and specifications, and prepare and submit meeting minutes for the pre-bid conference to the NYSDEC. It is assumed that the pre-bid conference will be held at the site.

3.5.2 <u>Addenda</u>

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.

3.5.3 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 pre-award submittals required by the Contract Documents.

3.5.4 Public Meeting

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



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 Engineering Design Report
- 3. Submittal of Preliminary Draft Plans and Specifications 30 percent
- 4. Submittal of Draft Intermediate Plans and Specifications, and Draft Construction Cost Estimate 60 percent
- 5. 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. Soil Boring, Monitoring Well Installation, Pumping Test
- YEC, Inc. (WBE) Surveying
- Mitkem Corporation (MBE) Sample Analyses
- Jamaica Blueprint Co., Inc. (WBE) Reproduction
- To be Determined Treatability Study
- Ecologic (WBE) Pumping Test Assistance

Figure 4-1 Project Schedule Remedial Design 93 Main Street Site

<u>Item</u>	Action	Start <u>Date</u>	Duration (weeks)	Completion <u>Date</u>
TASK 1	WORK PLAN DEVELOPMENT			
1	Issue Work Assignment		(time zero)	2/23/2004
2	Site Visit/Scoping Session		3	3/3/2004
3	Submission of Draft Project Management Work Plan		5	6/25/2004
4	NYSDEC Review		6	8/6/2004
5	Submission of Final Project Management Work Plan		4	9/3/2004
6	Notice to Proceed		1	9/10/2004
TASK 2	- PRE-DESIGN STUDY	9/10/2004		
7	Field Work		8	11/5/2004
8	Treatability Study		8	12/31/2004
9	Draft Pre-design Study Report		8	2/25/2005
10	NYSDEC Review		4	3/25/2005
TASK 3	- PLANS and SPECIFICATIONS	2/26/2005		
10	Preliminary Design (30% Design)		16	6/18/2005
11	Intermediate Design (60% Design)		9	8/20/2005
12	NYSDEC Review		4	9/17/2005
13	Final Design		5	10/22/2005
TASK 4	- PRE-AWARD SERVICES	10/22/2005	9	12/24/2005





5.0 SITE-SPECIFIC QUALITY ASSURANCE AND QUALITY CONTROL PLAN

Sample analyses for the 93 Main Street Site will be conducted in accordance with the NYSDEC Analytical Services Protocol (ASP). All other information that is not provided below regarding detailed sampling procedures and protocols, as well as other quality assurance and quality control (QA/QC) requirements, is provided in the draft D&B Corporate Generic Work Plan, dated February 1996.

- Fourteen surface soil samples will be collected from the site to determine surface soil quality.
- Eight subsurface soil samples will be collected from the site to determine subsurface soil quality.
- Five subsurface soil samples will be collected from the source areas to determine grain size of the site soils.
- Twelve groundwater samples will be collected from the site monitoring wells to determine groundwater quality.
- Two groundwater samples will be collected during the pumping test to determine groundwater quality.

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

- Two soil matrix spike/matrix spike duplicate samples will be collected.
- Two aqueous matrix spike/matrix spike duplicate samples will be collected.
- Two 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 93 MAIN STREET SITE SUMMARY OF MONITORING PARAMETERS

<u>Sample</u> Location	Sample Type	Sample Matrix	Sample Fraction	Number of <u>Samples</u>	<u>Frequency</u>	Container <u>Type/Size/No.</u>	Sample <u>Preservation</u>	Maximum <u>Holding Time*</u>	Analytical Method
Surface Soil	Grab	Surface Soil	Volatile Organic Compounds	14	1	Glass/2 oz/2 ICHEM 200 or equivalent	Cool to 4°C	10 days for analysis	6/00 NYSDEC ASP Method USEPA SOW OLMO4.2
	Grab	Surface Soil	Semivolatile Organic Compounds	14	1	Glass/8 ozr/2 ICHEM 200 or equivalent	Cool to 4°C	10 days for extraction, 40 days for analysis	6/00 NYSDEC ASP Method USEPA SOW OLMO4.2
	Grab	Surface Soil	Pesticide/PCBs	14	1	Glass/8 ozr/2 ICHEM 200 or equivalent	Cool to 4°C	10 days for extraction, 40 days for analysis	6/00 NYSDEC ASP Method USEPA SOW OLMO4.2
	Grab	Surface Soil	TAL Metals	14	1	Glass/8 ozr/2 ICHEM 200 or equivalent	Cool to 4°C	26 days for Hg and 6 months for all others	6/00 NYSDEC ASP Method USEPA SOW ILMO4.0
	Grab	Surface Soil	Cyanide	14	1	Glass/8 ozr/2 ICHEM 200 or equivalent	Cool to 4°C	14 days	6/00 NYSDEC ASP Method 335.2
Soil Borings	Grab	Subsurface Soil	Grain Size	5	1	any/quart	none	not applicable	ASTM D 422
	Grab	Subsurface Soil	Volatile Organic Compounds	8	1	Glass/2 oz/2 ICHEM 200 or equivalent	Cool to 4°C	10 days for analysis	6/00 NYSDEC ASP Method USEPA SOW OLMO4.2
	Grab	Subsurface Soil	Semivolatile Organic Compounds	8	1	Glass/8 ozr/2 ICHEM 200 or equivalent	Cool to 4°C	10 days for extraction, 40 days for analysis	6/00 NYSDEC ASP Method USEPA SOW OLMO4.2
	Grab	Subsurface Soil	Pesticide/PCBs	8	1	Glass/8 ozr/2 ICHEM 200 or equivalent	Cool to 4°C	10 days for extraction, 40 days for analysis	6/00 NYSDEC ASP Method USEPA SOW OLMO4.2
	Grab	Subsurface Soil	TAL Metals	8	1	Glass/8 ozr/2 ICHEM 200 or equivalent	Cool to 4°C	26 days for Hg and 6 months for all others	6/00 NYSDEC ASP Method USEPA SOW ILMO4.0
	Grab	Subsurface Soil	Cyanide	8	1	Glass/8 ozr/2 ICHEM 200 or equivalent	Cool to 4°C	14 days	6/00 NYSDEC ASP Method 335.2
Site/Study Area	Matrix Spike and Matrix Spike Duplicate	Soil	Volatile Organic Compounds	2**	1	Glass/2 oz/2 ICHEM 200 or equivalent	Cool to 4°C	10 days for analysis	6/00 NYSDEC ASP Method USEPA SOW OLMO4.2
	Matrix Spike and Matrix Spike Duplicate	Soil	Semivolatile Organic Compounds	2**	1	Glass/8 ozr/2 ICHEM 200 or equivalent	Cool to 4°C	10 days for extraction, 40 days for analysis	6/00 NYSDEC ASP Method USEPA SOW OLMO4.2
	Matrix Spike and Matrix Spike Duplicate	Soil	Pesticide/PCBs	2**	1	Glass/8 ozr/2 ICHEM 200 or equivalent	Cool to 4°C	10 days for extraction, 40 days for analysis	6/00 NYSDEC ASP Method USEPA SOW OLMO4.2
	Matrix Spike and Matrix Spike Duplicate	Soil	TAL Metals	2**	1	Glass/8 ozr/2 ICHEM 200 or equivalent	Cool to 4°C	26 days for Hg and 6 months for all others	6/00 NYSDEC ASP Method USEPA SOW ILMO4.0
	Matrix Spike and Malix Spike Duplicate	Soil	Cyanide	2**	1	Glass/8 ozr/2 ICHEM 200 or equivalent	Cool to 4°C	14 days	6/00 NYSDEC ASP Method 335.2
*Holding times bas	sed upon VTSR (Verified T	ime of Sample Rece	ipt).						
**Two sets of MS/	MSD based upon collection	n of 22 soil samples.							
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Table 5-1 (continued) 93 MAIN STREET SITE SUMMARY OF MONITORING PARAMETERS

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Sample Location	Sample Type	Sample Matrix	pple Matrix Sample Fraction		<u>Frequency</u>	Container <u>Type/Size/No.</u>	Sample <u>Preservation</u>	Maximum <u>Holding Time*</u>	Analytical Method
Monitoring Well (12 monitoring wells and 2 pump test)	Grab	Groundwater	Volatile Organic Compounds	14	1	Glass/40 ml/2 ICHEM 300 or equivalent	Cool to 4°C	7 days for analysis	6/00 NYSDEC ASP Method USEPA SOW OLMO4.2
	Grab	Groundwater	Semivolatile Organic Compounds	14	1	Glass/1 Liter/2 ICHEM 300 or equivalent	Cool to 4°C	5 days for extraction 40 days for analysis	6/00 NYSDEC ASP Method USEPA SOW OLMO4.2
	Grab	Groundwater	Pesticide/PCBs	14	1	Glass/1 liter/2 ICHEM 300 or equivalent	Cool to 4°C	5 days for extraction 40 days for analysis	6/00 NYSDEC ASP Method USEPA SOW OLMO4.2
	Grab	Groundwater	TAL Metals	14	1	Plastic/1 liter/1 ICHEM 300 or equivalent	HNO₃ to pH <2 Cool to 4°C	26 days for Hg analysis, 6 months for analysis of others	6/00 NYSDEC ASP Method USEPA SOW ILMO4.0
G	GrabGroundwaterGrabGroundwaterGrabGroundwaterGrabGroundwater		Cyanide	14	1	Plastic/500 ml/1 ICHEM 300 or equivalent	NaOH to pH>12 Cool to 4°C	12 days for analysis	6/00 NYSDEC ASP Method 335.2
			Anions	2	1	Plastic/100 ml/1 ICHEM 300 or equivalent	Cool to 4°C	28 days for analysis	6/00 NYSDEC ASP Method 300.0
			Cations	2	1	Plastic/100 ml/1 ICHEM 300 or equivalent	HNO₃ to pH <2 Cool to 4°C	6 months for analysis	6/00 NYSDEC ASP Method 200.7
			Total Organic Carbon	2	1	Glass/40 ml/2 ICHEM 300	H ₂ SO ₄ to pH <2 Cool to 4°C	7 days for analysis	6/00 NYSDEC ASP Method 415.1
c	Grab	Groundwater	Dissolved Organic Carbon	2	1	Glass/40 ml/2 ICHEM 300 or equivalent	H ₂ SO ₄ to pH <2 Cool to 4°C	7 days for analysis	6/00 NYSDEC ASP Method 415.1
	Grab	Groundwater	Total Dissolved Solids	2	1	Plastic/100 ml/1 ICHEM 300	Cool to 4°C	7 days for analysis	6/00 NYSDEC ASP Method 160.2
	Grab	Groundwater	Total Suspended Solids	2	1	Plastic/100 ml/1 ICHEM 300 or equivalent	Cool to 4°C	7 days for analysis	6/00 NYSDEC ASP Method 160.1

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

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Table 5-1 (continued) 93 MAIN STREET SITE SUMMARY OF MONITORING PARAMETERS

Sample Location	Sample Type	<u>Sample Matrix</u>	Sample Fraction	Number of <u>Samples</u>	Frequency	Container <u>Type/Size/No.</u>	Sample <u>Preservation</u>	Maximum <u>Holding Time*</u>	Analytical Method
Site/Study Area	Matrix Spike and Matrix Spike Duplicate	Groundwater	Volatile Organic Compounds	2**	1	Glass/40 ml/2 ICHEM 300 or equivalent	Cool to 4□C	7 days for analysis	6/00 NYSDEC ASP Method USEPA SOW OLMO4.2
	Matrix Spike and Matrix Spike Duplicate	Groundwater	Semivolatile Organic Compounds	2**	1	Glass/1 Liter/2 ICHEM 300 or equivalent	Cool to 4□C	5 days for extraction 40 days for analysis	6/00 NYSDEC ASP Method USEPA SOW OLMO4.2
	Matrix Spike and Matrix Spike Duplicate	Groundwater	Pesticide/PCBs	2**	1	Glass/1 liter/2 ICHEM 300 or equivalent	Cool to 4□C	5 days for extraction 40 days for analysis	6/00 NYSDEC ASP Method USEPA SOW OLMO4.2
	Matrix Spike and Matrix Spike Duplicate	Groundwater	TAL Metals	2**	1	Plastic/1 liter/1 ICHEM 300 or equivalent	HNO₃ to pH <2 Cool to 4□C	26 days for Hg analysis, 6 months for analysis of others	6/00 NYSDEC ASP Method USEPA SOW ILMO4.0
	Matrix Spike and Matrix Spike Duplicate	Groundwater	Cyanide	2**	1	Plastic/500 ml/1 ICHEM 300 or equivalent	NaOH to pH>12 Cool to 4□C	12 days for analysis	6/00 NYSDEC ASP Method 335.2
Site/Study Area	Trip Blank	Water	Volatile Organics	2**	I	Glass, clear/ 40 mL/2 ICHEM 300 series or equivalent	Cool to 4□C***	7 days for analysis	6/00 NYSDEC ASP Method USEPA SOW OLMO4.2

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

**Two sets of MS/MSD and trip blanks based upon collection of groundwater samples during two phases of activities.

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6.0 SITE-SPECIFIC HEALTH AND SAFETY PLAN

The following site-specific information comprises information not included in the Generic Work Plan. The Generic Work Plan includes a Generic Health and Safety Plan. The following information will be utilized in conjunction with the Generic Health and Safety Plan. Information with regard to contaminants of concern, personal protective equipment, exposure limits and monitoring requirements are provided in the Generic Health and Safety Plan.

Site Name:	93 Main Street Site	e
Address:	93 Main Street	
	Binghamton, New	York
Telephone:		
Dates of Field Investigations:	To Be Determined	– Summer 2004
Entry Objectives:	Soil borings and g	roundwater pumping test for
	evaluation of site l	ydrogeologic characteristics
	NT	
Site Organization Structure:	Name	Phone
Project Director:	R. Walka	516-364-9890
Project Manager:	G. Gould	315-437-1142
Health and Safety Officer (HSO)	B. Groves	973-765-0991
Field Operations		
Manager/Alternate HSO	S. Pepling	315-437-1142
Field Team Staff:	J. Kuhn	315-437-1142

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Subcontractors:	YEC, Inc.	914-268-3203								
	Parratt-Wolff, Inc.	315-437-1429								
	MITKEM Corporation	401-732-4300								
	Ecologic	315-655-8305								
Medical Assistance:										
Physician:	Dr. Ronald Miller									
Address:	961 Canal Street									
	Syracuse, NY 13210									
Telephone:	315-478-1977									
Name of Hospital:	Lourdes Hospital									
Telephone:	607-798-5231									
Directions:	From the site, turn left and proceed west on Main Street for									
	about half a mile. Turn left (south) onto Beethoven Street and									
	travel for about 0.75 miles. Turn right (west) onto Riverside									
	Drive. Lourdes Hospital is on left.									

Emergency Telephones:

Agent/Facility	Telephone	Emergency Number
EMS - Ambulance	911	911
Police Department	607-723-5321	911
Fire Department	607-772-7016	911
Hospital	607-798-5231	
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.).

NOT APPLICABLE

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Section 7

7.0 COMMUNITY AIR MONITORING PLAN

Community air monitoring will be conducted 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 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 Remedial Design 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 <u>ground intrusive</u> 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 <u>non-intrusive</u> activities such as the collection of surface soil and sediment samples or the collection of groundwater samples from

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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 (mcg/m³) 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 mcg/m³ 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 mcg/m³ above the upwind level, work must be stopped and a reevaluation of activities initiated. Work can resume provided that dust suppression measules and other controls are successful in reducing the downwind PM-10 particulate concentration to within 150 mcg/m³ 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.

Section 8

8.0 SCHEDULE 2.11s

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		Summar	Schedule 2.11 (a) y of Work Assignment Price 93 Main Street Site Summary	
		Work Ass	ignment Number D003600-40	
1.	Direc	t Salary Costs (Schedules 2.10 (a) ar	nd 2.11(b))	\$77,352
2.	Indire	ect Costs (Schedule 2.10 (g))		\$122,448
3.	Direc	t Non-Salary Costs (Schedules 2.11	(c)and (d))	\$8,585
	<u>Subc</u>	ontract Costs		
	Cost-	Plus-Fixed-Fee Subcontracts (Scheo	dules 2.11(e))	
	<u>Nam</u>	e of Subcontractor	Services To Be Performed	Subcontract Price
	A.	YEC, Inc. (MBE)	Survey new points	\$2,394
	В.	YEC, Inc. (MBE)	Property Survey	\$7,667
	C.	Ecologic (WBE)	Pumping Test Assistance	\$4,480
	D.	To b e determined	Treatability study	\$45,000
4.		I otal Cost-Plus-Fixed-Fee Subco	ontracts	\$59,541
	Unit	Price Subcontracts (Schedules 2.11(())	
	<u>Nam</u>	e of Subcontractor	Services To Be Performed	Subcontract Price
	A.	Parratt-Wolff, Inc.	Borings and Well Installation	\$18,980
	В.	MITKEM, Inc. (MBE)	Sample Analysis	\$38,085
	C.	Environmental Products and Ser	vic Water Disposal	\$8,490
5	D.	Jamaica Blue Print Co. (WBE)	Reproduction	\$8,832
6		Subcontract Management Fee		\$1 997
0.		Subcontract Management r ee		ψ1,007
7.	Tota	I Subcontract Costs (lines 4 + 5 + 6)		\$135,925
8.	Fixed	d Fee (Schedule 2.10 (h))		\$16,783
9.	Tota	l Work Assignment Price (lines 1 + 2	+ 3 + 7 +8)	\$361,094
93 M	1ain St PN	/ WP revised scope 211.xls	2.11a	7/7/04

SCHEDULE 2.11 (b) SUMMARY 93 Main Street Site Work Assignment Number D003600-40

Average NSPE Wage Rates	IX	VIII	VII	VI	V	IV	111]]		TOTAL HOURS
as of July 1,2003 as of July 1,2004	\$65.61 \$67.58	\$61.47 \$63.31	\$53.43 \$55.03	\$43.03 \$44.32	\$36.16 \$37.24	\$30.54 \$31.46	\$27.72 \$28.55	\$24.06 \$24.78	\$19.19 \$19.77	
Task 1- Work Plan Develop.	10	<u> </u>	14	70	86	0	0	10		190
Task 2- Pre-Design Field	4		16	92	238	0	64	22		436
Task 3- Treatability Study	0		4	64	24	0	40	24		156
Task 4- Plans and Specif.	12		164	260	22	0	608	84		1150
Task 5- Pre-Award Services	6		0	80	26	0	40	16		168
Subtotal 2003 Hours	14	0	34	226	348	0	104	56	0	782
Subtotal 2004 Hours	18	0	164	340	48	0	648	100	0	1318
Total Hours	32	0	198	566	396	0	752	156	0	2100
Total Direct Labor Cost	\$2,135	\$0	\$10,842	\$24,794	\$14,371	\$0	\$21,384	\$3,826	\$0	\$77,352

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SCHEDULE 2.11 (b)-1 SUMMARY 93 Main Street Site Work Assignment Number D003600-40

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Average NSPE Wage Bates	IX	VIII	VII	VI	V	IV				TOTAL HOURS
as of July 1,2003 as of July 1,2004	\$65.61 \$67.58	\$61.47 \$63.31	\$53.43 \$55.03	\$43.03 \$44.32	\$36.16 \$37.24	\$30.54 \$31.46	\$27.72 \$28.55	\$24.06 \$24.78	\$19.19 \$19.77	
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- Treatability Study	0	0	0	0	0	0	0	14	0	14
Task 4- Plans and Specif.	1	0	0	0	0	0	0	18	0	19
Task 5- Pre-Award Services	0	0	0	0	0	0	0	14	0	14
Subtotal 2003 Hours	2	0	0	9	6	0	0	32	0	49
Subtotal 2004 Hours	1	0	0	0	0	0	0	32	0	33
Total Hours	3	0	0	9	6	0	0	64	0	82
Total Direct Labor Cost	\$199	\$0	\$0	\$387	\$217	\$0	\$0	\$1,563	\$0	\$2,366

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Dvirka & Bartilucci Consulting Engineers 93 Main Street Site Work Assignment Number D003600-40

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

ADMIN					_	WORK	PLAN	DEVELO	PMENT					
ACTIVITY			Conf: Interest	lict of Checks	;					Prepa Sche	re 2.11 dules			
NSPE	IX	VIII	VII	VI	V	IV	VIII	VII	VI	v	ĪV	<u>I</u> II	11	
TASK 1	1.0								2.0					
TASK 2									2.0	2.0			_	_
TASK 3														
TASK 4														
TASK 5														
TOTAL	1.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	4.0	2.0	0.0	0.0	0.0	0.0

ADMIN											RE	VIEW W	ORK AS	SIGNME	NT (WA	PROGI	RESS											
ACTIVITY			Condu	ct Progr	ess				P	epare N	Nonthly							MBE	WBE						Prog	gram		
	Í		Re	eviews					R	eport &	Update							Acti	vities						Manag	jement		
																		_										
NSPE	VIII		Ví	V	IV	117	VIII	VII	VI	v	IV	111	R		VIII	VII	VI	V	IV	11			IX	Vill	VII	VI	V	
TASK 1			1.0							1.0								1.0					1.0					
TASK 2			2.0	_					2.0	1.0								1_				_						
TASK 3																												
TASK 4																					L							
TASK 5									L																			
TOTAL	0.0	0.0	3.0	0.0	0.0	0.0	0.0	_ 0.0	2.0	2.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.0	0.0	0.0	0.0	0.0	1.0	0.0	0.0	0.0	0.0_	0.0

ADMIN						CAP PRE	PARATIC	DN												MISCELL	ANEOL	IS						
ACTIVITY				Pre C Re	pare Mor ost Cont eport & C	nthly rol AP				Overs	e CAP	_			ī	Update I	NSPE LI	st				Equips and in	ventory			Word Pr and F Prepa	ocessin Report Iration	g
NSPE									IX	VIII	VII	VI								1	11	III						
TASK 1					1	· _	4																					
TASK 2							10									1											4	
TASK 3							10									_]							4	
TASK 4					T		14		1.0																		4	
TASK 5							14]				-	
TOTAL	0.0 0.0 0.0 0.0 0.0 52.0 0.0						0.0	1.0	0.0	0.0	0.0	_0.0	0.0	0.0	1.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	12.0	0.0	

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ADMIN ACTIVITY				1	otal Adr LOE (hrs	n. 5)			
NSPE	IХ	VIII		VI	V	IV	111	1 11	
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	18	0
TASK 5	0	0	0	0	0	0	0	14	0
TOTAL	3	0	0	9	6	0	0	64	0

SCHEDULE 2.11 (C) DIRECT NON-SALARY COSTS 93 Main Street Site Work Assignment Number D003600-40

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	MAXIMUM		ESTIMATED	TOTAL
ITEM	RATE		OF UNITS	COSTS
IN-HOUSE				
Outside Services Express Mail	\$50.00 \$40.00	set package	10 18	\$500 \$720
Level D Safety Equipment Level C Safety Equipment Level B Safety Equipment	\$14.00 \$40.00 \$50.00	(\$/person/day) (\$/person/day) (\$/person/day)	20 0 0	\$280 \$0 \$0
Meals Lodging	\$31.00 \$55.00	/day /day	15 15	\$465 \$825
TRAVEL Air Transportation (Personal Car) Tolls Car Rental Gas	\$400.00 \$0.375 \$20.00 \$415.00 \$100.00	roundtrip mile week week week week	1 5400 0 2 2	\$400 \$2,025 \$0 \$830 \$200
TOTAL DIRECT NON-SALARY COSTS				\$6,245

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Schedule 2.11 (c) Direct Non-Salary Costs 93 Main Street Site

Work Assignment Number D003600-40

				Sum	mary								Total	
			Tas	sk 1	Ta	ask 2	Ta	sk 3	Та	sk 4	Tas	sk 5	Est.	Total
	Reim	bursement	Est. No.	Total	Est. No.	Total	Est. No	Total	Est. No.	Total	Est. No.	Total	No. of	Estimated
ltem		Rate_	of Units	Cost	of Units	Cost	of Units	Cost	of Units	Cost	of Units	Cost	<u>Units</u>	<u>Cost</u>
A. Travel														
1. Meals	\$31	/day*		\$0.00	15	\$465.00		\$0.00		\$0.00		\$0.00	15	\$465.00
2. Lodging	\$55	/day	ĺ	\$0.00	15	\$825.00		\$0.00		\$0.00		\$0.00	15	\$825.00
3. Air Travel	400	/round trip	1	\$400.00		\$0.00		\$0.00		\$0.00	Í	\$0.00	1	\$400.00
4. Transportation (Personal Car	\$0.375	/mile	400	\$150.00	4000	\$1,500.00		\$0.00	1000	\$375.00		\$0.00	5,400	\$2,025.00
5. Tolls	\$20.00	/trip	0	\$0.00	0	\$0.00		\$0.00	0	\$0.00		\$0.00	0	\$0.00
6. Car Rental	\$415.00	/week		\$0.00	2	\$830.00		\$0.00		\$0.00	1	\$0.00	2	\$830.00
7. Gas	\$100.00	/week		\$0.00	2	\$200.00		\$0.00	ļ	\$0.00		\$0.00	2	\$200.00
			1 _] _						0	\$0.00
Subtotal (Travel)				\$550.00		\$3,820.00		\$0.00		\$375.00		\$0.00		\$4,745.00
B. Miscellaneous (Expenses)]						Í					
1. Outside Services**	\$50.00	/set	2	\$100.00	4	\$200.00	1	\$0.00	4	\$200.00]	\$0.00	10	\$500.00
2. Express Mail	\$40.00	/package	2	\$80.00	4	\$160.00		\$0.00	12	\$480.00		\$0.00	18	\$720.00
			9				l _						0	\$0.00
Subtotal (Misc. Expenses)			1 -	\$180.00		\$360.00		\$0.00		\$680.00		\$0.00		\$1,220.00
											Ì			
C. Personal Protective Equipment														
1. Level D Safety Equipment	\$14.00	(\$/person/day)	ĺ	\$0.00	20	\$280.00	1	\$0.00		\$0.00		\$0.00	20	\$280.00
2. Level C Safety Equipment	\$40.00	(\$/person/day)		\$0.00		\$0.00		\$0.00		\$0.00		\$0.00	0	\$0.00
3. Level B Safety Equipment	\$50.00	(\$/person/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		\$280.00
TOTAL				\$730.00		\$4,460.00		\$0.00		\$1,055.00		\$0.00		\$6,245.00

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 Broome 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 93 Main Street Site Work Assignment Number D003600-40 Summary

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ESTIMATED PURCHASE	O&M RATE	TERM OF USAGE	ESTIMATED USAGE COST
			(UUL, 2 + [3,4])
		TOTAL	\$0.00

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SCHEDULE 2.11 (d) 2 EQUIPMENT CONSULTANT OWNED

93 Main Street Site Work Assignment Number D003600-40 Summary

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

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SCHEDULE 2.11 (d) 3 EQUIPMENT VENDOR RENTED 93 Main Street Site Work Assignment Number D003600-40 Summary

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	MAXIMUM		ESTIMATED	ESTIMATED
	REIMBURSEMENT	TIME	USAGE	USAGE COST
	RATE	PERIOD	(period of time)	(Col. 2 X 3)
Horiba U-22 Water checker	\$300	week	1	\$300
Photoionization Detector	\$200	week	2	\$400
MiniTroll Data Logger	\$225	week	0	\$0
Persitaltic Pump	\$75.00	week	0	\$0
Air Sampling Pump	\$50.00	week	0	\$0
			Total	\$700

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SCHEDULE 2.11 (d) 4 EXPENDABLE SUPPLIES 93 Main Street Site Work Assignment Number D003600-40 Summary

				TOTAL
				BUDGETED
	ESTIMATED		UNIT	COST
ITEM	QUANTITY	UNITS	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
			TOTAL	\$390

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SCHEDULE 2.11 (D) 5 CONSUMABLE SUPPLIES 93 Main Street Site Work Assignment Number D003600-40 Summary

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ITEM	ESTIMATED QUANTITY	UNIT COST	TOTAL BUDGETED COST (COL. 2 X 3)
Miscellaneous Supplies Sieve Analyses	1 5	\$250.00 \$200.00	250 \$1,000
		TOTAL	\$1,250

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

Work Assignment Number D003600-40

Name of Subcontractor: EcoLogic, LLC

<u>Services to be Performed</u>: Pumping Test Assistance at 93 Main St. Site, Binghamton, NY <u>Subcontract Price</u>: \$4,480.20

A. Direct Salary Costs

Professional	Labor	Average	Maximum	Estimated	Total Estimated
Responsibility	Classification	Reimbursement	Reimbursement	No. of	Direct Salary
Level		Rate (\$/hr)	Rate (\$/hr)	Hours	Cost
Principal:	VIII	\$40.00	\$40.00	2	\$80.00
Aquatic Sciences					
Environmental	IV	\$24.00	\$24.00	48	\$1,152.00
Scientist					
Total Direct Salary					
Costs					\$1,232.00

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

<u>\$ 616.00</u>

Item	Maximum	Est. No. of Units	Total Estimated Cost
	Reimbursement Rates		
	(specify unit)		
Travel	\$0.375 /mile	1000	\$375.00
Meals	\$31 /day	5	\$155.00
Lodging	\$55 /day	5	\$275.00
MiniTroll Datalogger	\$225 /week	6	\$1,350.00
Expendable Field	\$40 /day	5	\$200.00
Supplies			
Total Direct Non-Salary	/ Costs		\$2,355.00

C. Maximum Reimbursement Rates for Direct Non-Salary Costs

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

<u>\$ 277.20</u>

Schedule 2.11 (e) Cost Plus Fixed-Fee Subcontracts

93rd main Street Site Site

NAME OF SUBCONTRACTOR	SERVICES TO BE PERFORMED	SUBCONTRACT PRICE
YEC. INC.	Certified Boundary Survey & CAD	\$7,667.02

A. Direct Salary Costs

Professional Responsibility Level	Labor Classi- fication	Labor Avera; Classi- Reimburs; Scation Rate (\$/"		Maxi Reimbu Rate (inun: rsement (S/Hr.)	Estimated Number of 1	Total Estimated Direct Salary <u>Cost (S)</u>	
Principal	VIII	2004	59.42	2004	64.19	0	0.00	
Senior Geologist/Scientist/ Bngineer/ Licensed Surveyor	v	2004	39.29	2004	43.22	40	1,571.60	
Staff Geologist/ Scientist/Engineer	IV	2004	34.16	2004	37.57	0	0.00	
Staff Geologist/ Scientist/Engineer/CAD Operator]11	2004	29.64	2004	32.89	6	177.84	
Senior Technician/Staff Engineer/Scientist/Geologist	11	2004	21.92	2004	24.57	24	526.08	
Technician/Draftsperson	r	2004	19.86	2004	2 2.26	24	476.64	
				Т	otal Direct	Salary Costs:	2,752.16	

B. Indirect Costs - 117% of direct salary cost

Indirect Costs: 3,220.03

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

Item	Maxium Reimbursement Rate	Estimated No. of Units	
Mileage	0.34 /mile	400 miles	136.00
Tolls	10.00 /trip	1 trips	10.00
Per Diem	92.00 Overnight	4 Man-Days	368.00
CAD Equipment Costs	15.00 /hr	6 hrs	90.00
Survey Equipment Rontal	65.00 day	3 day	195.00
		Total Direct Non Salary Costs:	799.00

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

Fixed Fee: 895.83

* An approximate boundary survey will be conducted instead a certified boundary survey

Schedule 2.11 (e) Cost Plus Fixed-Fee Subcontracts

93rd main Street Site Site

April 2, 2004

NAME OF SUBCONTRACTOR	SERVICES TO BE PERFORMED	SUBCONTRACT PRICE
YEC, INC.	Wells & Borings Survey & CAD	\$2,393.87

A. Direct Salary Costs

Professional Responsibility Level	Labor Classi- fication	Ave Reimbu Rate ()	rage rsement \$/Hr.)	Maxi Reimbu Rate (mum rsoment S/Hr.)	Estimated Number of Hours	Total Estimated Direct Salary Cost (\$)	
Principal	VIII	2004	59.42	2004	64.19	0	0.00	
Senior Geologist/Scientist/ Enginee:/ Licensed Surveyor	٧	2004	39.29	2004	43.22	8	314.32	
Staff Geologist/ Scientist/Engineer	IV	2004	34.16	2004	37.57	0	0.00	
Staff Geologist/ Scientist/Engineer/CAD Operator	ш	2004	29,64	2004	32.89	4	118.56	
Senior Technician/Staff Engineer/Scientist/Geologist	II	2004	21.92	2004	24.57	10	219,20	
Technician/Draftsperson	I	2004	19.86	2004	22.26	10	198.60	
				T	otal Direct	Salary Costs:	850,68	

B. Indirect Costs - 117% of direct salary cost

Indirect Costs: 995.30

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

Item	Maxium Reimbursement Rate	Estimated No. of Units	
Milcage	0.34 /mile	400 miles	136.00
Tolls	10.00 /trip	1 trips	10.00
Per Diem	92.00 Overnight	0 Man-Days	0.00
CAD Equipment Costs	15.00 /hr	4 hrs	60,00
Survey Equipment Rental	65,00 day	l day	65.00
		Total Direct Non Salary Costs:	271.00

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

* An approximate boundary survey will be conducted instead a certified boundary survey

Fixed Fee: 276.90

		ITEM DESCRIPTION	UNIT	QU ANT ITY	Parratt-W	/olff, Inc.	Nothnagle Drilling, Inc.		Uni-Tech Drilling Company, Inc.		Delta Well a Compar	and Pump 1y, Inc.
					UNIT	TOTAL	UNIT	TOTAL	UNIT	TOTAL	UNIT	TOTAL
L	_				PRICE	PRICE	PRICE	PRICE	PRICE	PRICE	PRICE	PRICE
1.	Α.	MOBILIZATION/DEMOBILIZATION, INCLUDING S		2	\$400	\$800	\$0	\$0	\$1,800	\$3,600	\$5,000	\$10,000
		UP,SITEBREAKDOWN, CLEANUP,REPAIR, INITI										
		FINAL EQUIPMENTDECONTAMINATION,										
		TRAVEL,LODGING, MEALSAND LABOR FOR SIT	Ē									
	_	RESTORATION.										
	В.	CONSTRUCTION AND REMOVAL OF DECON PA	Lump Sum	1	400	400	850	850	425	425	800	800
_	<u>C.</u>	WELL/BORING SET-UP	Per Well/Borin	11	200	2,200	100	1,100	200	2,200	300	3,300
2												
2A.						[
	(1)											
		A. 2.25- In. ID HSA	Lineal Foot	0.05	12	0	10	0	12	0	17	0
		B. 3.25- In. ID HSA	Lineal Foot	225	12	2,700	10	2,250	14	3,150	17	3,825
		C. 4.25- In. ID HSA	Lineal Foot		13	0	12	0	14	0	18	0
		D. 6.25- In. ID HSA	Lineal Foot	60	16	960	14	840	16	960	20	1,200
	(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
	(2)		Lineal Foot			0	28	0	20	0	60	0
	(3)	100-200 FEET IN DEPTH										
		A. 3.25-In. ID HSA	Lineal Foot			0	16	0	18	0	19	0
		B. 4.25- IN. ID HSA	Lineal Foot			0	18	0	22	0	20	0
28	<u> </u>	C. 6.25- III. ID HSA	Lineal Foot		NA	0	20	0	26	0	30	0
	(1)		l									
	(1)		Lineal Feat		25		15		00			
			Lineal Foot		20		15	0	20		NA	0
		C 8-INCH ID CASING	Lineal Foot		50		20	0	27		NA	0
	(2)	50-100 EEET IN DEPTH	Linear Foot		50	0	20	0	30	0	NA	0
	(-)		Lines Foot		25		16		20		N1.6	
		B. 6-INCH ID CASING	Lineal Foot		45		20	0	20			0
		C. 8-INCH ID CASING	Lineal Foot	ĺ			30		30			
	(3)	100-200 FEET IN DEPTH	Linduitiou				00		50			U U
	(-)	A. 4-INCH ID CASING	Lineal Foot		60	_ ا	20	0	20	0		
		B. 6-INCH ID CASING	Lineal Foot		NA	0	28	0	27	0		
1		C. 8-INCH ID CASING	Lineal Foot		NA	0	42	0	30	0	NA	0
	(4)	GREATER THAN 200 FEET IN DEPT	н Н									Ŭ
		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	
2C	SP	N TEMPORARY FLUSH JOINT CAST	NG	-								
	(1)	0-50 FEET IN DEPTH										
		A. 4-INCH ID CASING	Lineal Foot	Į	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	n	NA	
	(3)	100-200 FEET IN DEPTH										
		A. 4-INCH ID CASING	Lineal Foot		60	0	20	0	40	n	27	
		B. 6-INCH ID CASING	Lineal Foot		NA	0	28	0	70	0	NA NA	

		_									
	ITEM DESCRIPTION	UNIT	QU ANT ITY	Parratt-W	olff, Inc.	Nothnagie In	e Drilling, c.	Uni-Tech Compar	Drilling 1y, Inc.	Delta Well a Compar	and Pump 1y, Inc.
-				UNIT	TOTAL	UNIT	TOTAL	UNIT	TOTAL	UNIT	TOTAL
				PRICE	PRICE	PRICE	PRICE	PRICE	PRICE	PRICE	PRICE
	2D. MUD ROTARY										
	(1) 0-50 FEET IN DEPTH										1
	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									1	1
	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										Į
	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	4									
-	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	l									
	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			1							
	A. 4-INCH DIAMETER BIT	Lineal Foot		35	0	20	0	14	0	NA	0
	B. 6-INCH DIAMETER BIT	Lineal Foot		45	o	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	ł							_		
SUM	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										<u> </u>
	A. NX-CORING	Lineal Foot		40	0	32	0	45	0	NA	0
-	B. HX-CORING	Lineal Foot		50	0	45	0	48	0	NA	0
	C. NQ-CORING	Lineal Foot		40	0	32	0	50	о о	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	
	D. HQ-CORING	Lineal Foot		50	0			50		NA	
	(3) 100-200 FEET IN DEPTH								Ĭ		
	A. NX-CORING	Lineal Foot		40		40		50		NIA	
	B. HX-COBING	Lineal Foot		50		51		55			
	C. NO-CORING	Lineal Foot		40	0	اب ر ۸۵		50 60			
		Linsar root		1 ⁺		40	ں _ا	00	v ۱		U V

	N UNIT	QU ANT ITY	Parratt-W	olff, Inc.	Nothnagie ind	e Drilling, c.	Uni-Tech Drilling Company, Inc.		Delta Well a Compan	ind Pump y, Inc.
			UNIT	TOTAL	UNIT	TOTAL	UNIT	TOTAL	UNIT	TOTAL
			PRICE	PRICE	PRICE	PRICE	PRICE	PRICE	PRICE	PRICE
D. HQ-CORING	Lineal Foot		50	0			60	0	NA	0
(4) GREATER THAN 200 FEET IN	I DEPTH									
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 CC	DRE HOLE TO 4-I	NCH		۲ 						
	Lineal Foot		30		18	0	12	0	NA	0
B. 50-100 FEET IN DEPTH	Lineal Foot		40		19	0	14	0	NA NA	
	DTH Lineal Foot		50 60		24	0	10	0		
D. GREATER THAN 200 FEET IN DE		ИСН			20	0	10	0	INA	
					26	0	12	0	ΝΔ	0
B 50-100 FEET IN DEPTH	Lineal Foot		50		20	0	14			0
C 100-200 EEET IN DEPTH	Lineal Foot		60	0	35	0	16		ΝA	0
D. GREATER THAN 200 FEET IN DE	PTH Lineal Foot		80	n	40		18	n	NA	
6 BORE HOLE SAMPLING										
6A. SPLIT SPOON SAMPLING			-							
(1) 0-50 FEET IN DEPTH										
A. 2-INCH OD	Per Sample	143	20	2,860	10	1,430	15	2,145	35	5,005
B. 3-INCH OD	Per Sample	5	30	150	15	75	25	125	55	275
(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 I	N 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 DI	EPTH 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	C	. 250	0
B 50-100 FEET IN DEPTH	Per Sample		200	0	160	0	295		275	0
C. 100-200 FEET IN DEPTH	Per Sample		250	0	175		325		300	0
D. GREATER THAN 200 FEET IN D	EPTH Per Sample		400	0	200	<u> </u>	375	1	375	0
7 BOREHOLE ABANDONMENT									10	
A 0 TO 4-INCH DIAMETER BOREH	OLE Per Foot	000	4		5				12	0 075
B 4 TO 8-INCH DIAMETER BOREH	OLE Per Foot	225	6	1,350	6	1,350	6	1,350		3,375
C. 8 TO 12-INCH DIAMETER BORE	HOLE Per Foot		12		10		10		25	
8 WELL SCREEN		+	-							
BA SCHEDULE 40 PVC			+	<u> </u>	10		7			
	Per Foot									
		10	10	100	14	000				260
C. 4-INCH ID	Per Foot	40		400		000		000		300
D. 6-INCH ID	Per Foot		20		30		25	(24	0
E 8-INCH ID	Per Foot		30	(38	0	30	(35	0
8B SCHEDULE 80 PVC										
A. 4-INCH ID	Per Foot		15		28		20		14	0
B. 6-INCH ID	Per Foot		30		36		28		35	0

	ITEM DESCRIPTION UNIT	QU ANT ITY	Parratt-W	/olff, Inc.	Nothnagie	e Drilling, c.	Uni-Tech Compar	Drilling ıy, Inc.	Delta Well a Compan	ta Well and Pump Company, Inc.	
				TOTAL PRICE	UNIT PRICE	TOTAL PRICE	UNIT	TOTAL			
ľ	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	о	28	0	30	0	30	0	
Ì	B. 4-INCH ID Per Foot		30	о	56	0	50	o	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		70	0	
-			90		124		95		0	0	
ŀ											
ŀ		-									
i	SA. SCHEDULE 40 PVC										
					14	0	5	0	2	0	
		20	4	100	14	200	5	100	3	100	
	C. 4-INCHID Per Foot	20	, o	120	19	380	× 4Ω	160	b 10	120	
	D. 6-INCHID Per Foot		15	0	24	0	12	0	10	0	
	E. 8-INCH ID Per Foot		25	0		0	14	0	20	0	
ļ	9B. SCHEDULE 80 PVC				05		10		10		
	A. 4-INCH ID Per Foot		10		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		1								
	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 LB	s) 30	15	450	25	750	12	360	10	300	
	(No.00 TO No. 2 SIZE SAND)										
	11 BENTONITE										
	A. PELLETS 5 Gallon Pa	ail	50	0	50	0	70	0	60	0	
	B. POWDER Bag (50 LB	S)	15	0	20	0	12	0	30	0	
	C. GRANULAR Bag (50 LB	s) 2	20	40	25	50	12	24	30	60	
-	12 GROUT										
	A. PORTLAND CEMENT TYPE-I Bag (94 LB	S)	30	0	20	0	12	0	15	0	
	B. PORTLAND CEMENT TYPE-II Bag (94 LB	s) 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	o	28	0	24	0	65	0	
	D. 10-INCH DIAMETER Per Foot		50	0	36	0	30	o	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	1	35	0	22	0	22	0	65	0	
	C. 8-INCH DIAMETER Per Foot		45	0	30	o	26	0	75	0	
_	D. 10-INCH DIAMETER Per Foot		55	0	38	o	32	0	90	о –	
	(3) CARBON STEEL										
	A. 4-INCH DIAMETER Per Foot		25	0	18	о	16	0	50	0	
	B. 6-INCH DIAMETER Per Foot		30		22	0	21	0	55	n	
	C 8-INCH DIAMETER Der Fort		40		30	۰ ۱	25		70		
			50		10		20		100		
				<u>+</u> −−− [•]	<u>+4</u>			<u> </u>		<u> </u>	
										L	
	(1) FLUSH MOUNT WITH LOCKING COVER, DRAIN HOLE	1	I	1	I	I	I	I	I	I	

	ITEM DESCRIPTION	UNIT	QU ANT ITY	Parratt-W	olff, Inc.	Nothnagle	Drilling, c.	Uni-Tech Drilling Company, Inc.		Delta Well and Pun Company, Inc.	
				UNIT	TOTAL	UNIT	TOTAL	UNIT	TOTAL	UNIT	TOTAL
				PRICE	PRICE	PRICE	PRICE	PRICE	PRICE	PRICE	PRICE
	SET IN A 2'X2' CONCRETE PAD EXTENDING AT										
	LEAST 6 INCHES BELOW GROUND SURFACE										
	A. 4-INCH ID	Per Casing	1	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	2	200	400	180	360	325	650	250	500
14B	ABOVE GRADE										
	(1) 6-Foot Protective Surface Casing, with Locking Co	ver,	1								
	DrainHole set in a 2X2 foot cement pad extending	at least I									
	a footbelow ground surface.					450		075			
	A. 4- INCH ID	Per Casing		200		150	0	275	0	200	0
	B. 6-INCH ID	Per Casing		250		175	0	300	0	225	0
	C. 8-INCH ID	Per Casing		300	0	200	0	325	0	250	0
14C		Per Lock	<u> </u>	10	20	12	24	12	24	19	38
15	CONTAINERIZATION OF DRILLING MATERIAL AND										
	STAGING (ON PALLETS)		10	50	500				000	45	450
	A. PROVIDE CLEAN EMPTY DOT APPROVE	Per 55		50	500	30	300	30	300	45	450
	GALLON DRUMS WITH SEALS, BUNGS, A	Gallon Drum		50		05		45		45	<u> </u>
	B. PROVIDE CONTAMINMENT AND STAGIN	Per 55		50		35	0	40		45	0
-		Gallon Drum		75	750	20	200		450	45	450
	C. FILLING, MOVING, STAGING 55 GALLON	Per 55		/5	/ / 50	30	300	40	450	40	450
	ON-SITE ON PALLETS	Gallon Drum)	100		25		55		45	
	D. MOVE FILLED DRUMS TO SECONDARY I	Per 55		100		35		55		40	
	WITHIN 1 MILE OF DRILL SITE	Gallon Drum	1								
16				AF		120		100		140	
	A. BAILING	Per Hour	110	45	700	150	1 200	160	1 0 2 0	140	1 690
	B. POMP AND SURGE (submersible, centritug	Per Hour	12	110	/80	150	1,000	160	1,920	140	1,000
	C. AIR LIFTING	Per Hour			0	150		160		140	<u> </u>
17	WELL ABANDONMENT		+		<u> </u>	10				20	<u> </u>
	A. 2-INCH DIAMETER WELL	Per Foot	1	5		10				20	
		Per Foot		10		24		10		20	
1	C. 6-INCH DIAMETER WELL	Per Foot		15		J 32		12		35	
10				13			<u> </u>	12			
10	ACCESS (huldozer with 6 foot blade)	-									
		Lump Sum				450		650			
	B ON SITE OPERATION	Per Hour		110		80		125		125	
				110		150		80		150	
		Per Locatio	n								
19	BACKHOF/ FXCAVATOR WITH OPERATOR FOR TES	T PIT/							-		
1 .3	TRENCH EXCAVATION										
	A. MOBILIZATION AND DEMOBILIZATION	Lump Sum		400	(450	(650	<u> </u>) TBD	0
	B. RUBBER TIRE (10 FOOT EXCAVATION I	Per Hour		90		75		125		125	
	C. TRACKED (20-FOOT EXCAVATION IN DE	F Per Hour		130		125	(150		300	
	D. DECONTAMINATION RETWEEN LOCATI	O Lump Sum		130		150		80		150	
		Per Locatio	n								
20	ONSITE RESTORATION		-	<u> </u>			<u> </u>	1			
F	A. COMPACTED CLEANFILL	Cubic Yarr	1	15	1	0 15		12	1	30	
	B. TOPSOIL	Cubic Yar	4	30		25		12		30	
1	C. GRASS SEEDING	Square Yar	-d	10		15				10	
	D. ASPHALT PAVING	Bag (60 LB	s	20		40		12		20	(
	E CONCRETE PAVING	Bag (94 LB	s	30		25		12		25	(
21	SPECIAL TY ITEMS	3,	1		1	+					

•	ITEM DESCRIPTION	UNIT	QU ANT ITY	Parratt-W	utt-Wolff, Inc. Nothnagle Drilling, Uni-Tech Drilling Delta Well a Inc. Company, Inc. Company		and Pump ny, Inc.				
•				UNIT	TOTAL	UNIT	TOTAL	UNIT	TOTAL	UNIT	TOTAL
				PRICE	PRICE	PRICE	PRICE	PRICE	PRICE	PRICE	PRICE
21A	Packer testing equipment including labor and equipment	ior									
•	testing using single or double packers, and interval gas s	ampling									
	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.	- hours									
	test in a 100-foot well 100 feet of discharge piping										
	(1) 0-50 GALLON PER MINUTE TEST	Per Hour	48	65	3,120	125	6,000	150	7,200	250	12,000
	(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	Per Day		250	0	450	0	450	0	900	0
	unavailable provide additional laborer and vehicle with										
	minimum 500-gallon capacity to supply portable water to	drill rig									
22	STANDBY TIME	Per Hour	4	200	800	150	600	150	600	130	520
23	LABOR CHARGE for services not listed in the Price	Per Hour			_						
	Quotation Schedule	_				_					
	A. SUPERVISOR RATE	Per Hour	Ţ	90	Ō	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	Percent		10%		30.00%		20%		40%	
	(indicate which items would be affected)										
	B. Cost increment for level "B" protection	Percent		100%		\$50.00		30%		100%	1
1	(indicate which items would be affected)										
25	Price Increase or Optional Additional 12 month period	Percent		0.00%		2.00%		1.50%		3.00%	
	(indicate which items would be afected)										
	TOTAL				18,980		19,459		26,515		44,408

NA: Not available.

TBD: To be determined for each work assignment

SCHEDULE 2.11 (f)2 UNIT PRICE SUBCONTRACTS 93 Main Street Site Work Assignment Number D003600-40

Parenti-West[Line] Distributed West Healation Distributed West Healation Distributed West Healation 0. A. Max. Ferreburgement Ase of Units Constant 1. A. MOSELIZATION/INCLUDING SITE SET S4000 Lung Sum 2 Lung Sum Constant 1. A. MOSELIZATION/INCLUDING SITE SET S4000 Lung Sum 2 Lung Sum Constant 1. A. MOSELIZATION/INCLUDING SITE SET S4000 Lung Sum 1 Lung Sum 4000 2. UP-SITEMEXMOND, CLEARING HARD, NTILL AND First Stant 2 Lung Sum 400 2. DIRILING REST-UP 2000 Per WestStarlig 1 Lung Sum 400 2. DIRILING RECHANDORES 2 Lineal Foot 0 5 2,200 2. DIRILING RECHANDORES 12 Lineal Foot 2,200 2 Lineal Foot 0 1 Lineal Foot 0 1 Lineal Foot 0 1 Lineal Foot 0 1 <t< th=""><th>NAME</th><th>ME OF SUBCONTRACTOR</th><th>SERVIC</th><th>CES TO BE</th><th></th><th>SUBCONTRACT</th><th colspan="2">MANAGEMENT</th></t<>	NAME	ME OF SUBCONTRACTOR	SERVIC	CES TO BE		SUBCONTRACT	MANAGEMENT	
Nas. Reimburgeneter Summary Su	<u></u>	Parra	htt-Wolff, Inc.	Borings ar	Id Well Installation		PRICE \$18,980	<u>FEE</u> \$664
Contract Network Entranget No. Total Entranget No. Total Entranget No. Contract No. Status Status Contract No. Status Status <thstatus< th=""> Status</thstatus<>								
1. A. MOBILIZATION/OCMOBULIZATION/INCLUENDS SET EXET \$400 Lung Sum 2 Lung Sum \$500 IPARTERFERADOW, CLEARIN REPAR, INTRU AND INFRAUELLODORIN, CLEARIN REALBAND LADON FOR SITE RESTORATION. 1 Lung Sum 1 Lung Sum 400 ITAVELLODORIN, CLEARING LADON FOR SITE RESTORATION. 1 Lung Sum 1 Lung Sum 400 C. WELLBORING SET-UP 200 Per WellSong 11 Per WellSong 2,200 2. DRILLING TECHNIQUES 2 Lineal Foot 10 0.0 2,2700 2. MOLLOW STEM AUGER 12 Lineal Foot 225 Lineal Foot 0.0 0.0 0.0 2,2700 0.0 0.0 2,251-In. ID HSA 12 Lineal Foot 0.0	Contra	act Item	n number	Max. Re Rate	imbursement	Es	timated No. of Units	Total Estimated
UP.STREEREADOWN, CLEAVUP, PERAR, INTAL AND FRANL EQUIPMENTOCONTAMINATION, TRAVELLOGOMA, DEALSAND LAGOR FOR SITE RESTORATION. 1 Lump Sum 1 Lump Sum 400 B. CONSTRUCTION AND REMOVAL OF DECOR PAD 200 Per WeltBorns 11 Dem Sum 11 Additional Sum C. WELL/BORING SET-UP 200 Per WeltBorns 11 Per WeltBorns 2,200 2 DRILLING TECHNOUES 2 Lineal Foot 0 3,250 0 0 2,200 4 HOLLOW STEM AUGER 12 Lineal Foot 0 0 0,200 2 Uneal Foot 2,200 A A225-In. ID HSA 12 Lineal Foot 0	1.	Α.	MOBILIZATION/DEMOBILIZATION, INCLUDING SITE SET	\$400	Lump Sum	2	Lump Sum	\$800
FRML EQUIPMENTECONTAMUNTION, THAVELLODGING, MEALSAND LABOR FOR SITE RESTORATION. 1 Lump Sum 1 Lump Sum 400 B. CONSTRUCTION AND REMOVAL OF DECON FAD 400 Lump Sum 1 Lump Sum 400 2 DRILLING TECHNIQUES 200 Per WelkBoring 11 Per WelkBoring 2.200 2 DRILLING TECHNIQUES 2 Lineal Foot 0			UP,SITEBREAKDOWN, CLEANUP,REPAIR, INITIAL AND					
TRAVELLOGENRA, MEALSAND LAGOR FOR STE HESTORNTON. 400 Lump Sun 400 B. CONSTRUCTION AND REMOVAL OF DECON PAD 400 Lump Sun 400 C. WELL/BORING SET-UP 200 Per Well/Soring 11 Per Well/Soring 2.200 2 DRILLING TECHNIQUES 2 Lineal Foot 2 Lineal Foot 2 4. OLOW STEM AUGER 12 Lineal Foot 2 Lineal Foot 0 B. 3.25-In. ID HSA 12 Lineal Foot 2 Lineal Foot 0 D. 6.25-In. ID HSA 13 Lineal Foot Lineal Foot 0 C. 4.25-In. ID HSA 13 Lineal Foot Lineal Foot 0 B. 4.25-In. ID HSA 13 Lineal Foot 0<	1		FINAL EQUIPMENTDECONTAMINATION,					
RESTORATION. Aug 2.3.0.100000000000000000000			TRAVEL, LODGING, MEALSAND LABOR FOR SITE					
B. CONSTRUCTON NOD REMOVAL OF DECON PAD 400 Lump Sum 1 Lump Sum 400 C. WELLBORING SET-UP 200 Per WeltBorrig 11 Per WeltBorrig 2,200 2 DRILLING SET-UP 200 Per WeltBorrig 11 Per WeltBorrig 2,200 2. DRILLING SET-UP 225 Lineal Foot 0 0 2,2700 2. A. 2,25 In. ID HSA 12 Lineal Foot 225 Lineal Foot 0 0. 6,25 In. ID HSA 13 Lineal Foot 0	}		RESTORATION.		ļ		ļ	
C. WELLBORING SET-UP 200 Per WeltBorn 11 Per WeltBorn 2,200 2 DRILLING TECHNIQUES		в.	CONSTRUCTION AND REMOVAL OF DECON PAD	400	Lump Sum	1	Lump Sum	400
2 DRILLING TECHNIQUES ILLIC 2A. HOLLOW STEM AUGER ILLIC ILLIC (1) 0-50 FEET IN DEPTH Z25-In. ID HSA 12 Lineal Foot 0 B. 3.25-In. ID HSA 12 Lineal Foot 225 Lineal Foot 0 D. 6.25-IN. ID HSA 13 Lineal Foot 0 0 0 E. 8.25-IN. ID HSA 16 Lineal Foot 0 0 0 (2) 50-IN DHSA 13 Lineal Foot 0 0 0 A. 3.25-IN. ID HSA 13 Lineal Foot 0 0 0 0 B. 4.25-IN. ID HSA 13 Lineal Foot Lineal Foot 0 0 0 C. 6.25-IN. ID HSA 13 Lineal Foot Lineal Foot 0 0 0 J. 100-200 FEET IN DEPTH A 3.25-IN. ID HSA NA Lineal Foot 0 0 0 G. C. 6.25-IN. ID HSA NA Lineal Foot Lineal Foot 0 0 0 0 0 0 0 0 0 0 0 0 0		C.	WELL/BORING SET-UP	200	Per Well/Boring	11	Per Well/Boring	2 200
2A. HOLLOW STEM AUGER Inc. 10 0-50 FEET IN DEPTH 0 A. 225-In. ID HSA 12 Lineal Foot Uneal Foot 0 B. 325-In. ID HSA 12 Lineal Foot Uneal Foot 0 C. 4.25-In. ID HSA 13 Lineal Foot Uneal Foot 0 C. 4.25-In. ID HSA 13 Lineal Foot Uneal Foot 0 E. 8.25-In. ID HSA 13 Lineal Foot Uneal Foot 0 A. 3.25-In. ID HSA 13 Lineal Foot Uneal Foot 0 A. 3.25-In. ID HSA 15 Lineal Foot Uneal Foot 0 D. 8.25-In. ID HSA 10 Lineal Foot Uneal Foot 0 G. 6.25-In. ID HSA 20 Lineal Foot Lineal Foot 0 D. 8.25-In. ID HSA NA Lineal Foot Lineal Foot 0 G. 6.25-In. ID HSA NA Lineal Foot Lineal Foot 0 B. 4.25-In. ID HSA NA Lineal Foot Lineal Foot 0 B. 6-INCH DIAMETER BIT AN Lineal Foot Lineal Foot 0 C. 6-25-In. ID HSA NA Lineal Foot Lineal Foot 0 B. 6-INCH DIAMETER	2	DRI	LLING TECHNIQUES	†				
(1) 0-50 FEET IN DEPTH Uneal Foot Uneal Foot 0 A. 2.25-In. ID HSA 12 Lineal Foot 225 Lineal Foot 2700 C. 4.25-In. ID HSA 13 Lineal Foot Lineal Foot 200 D. 6.25-In. ID HSA 16 Lineal Foot 60 Lineal Foot 960 E. 8.25-In. ID HSA 13 Lineal Foot Lineal Foot 960 (2) 50-100 FEET IN DEPTH 7 1 Lineal Foot Lineal Foot 0 A. 3.25-In. ID HSA 13 Lineal Foot Lineal Foot 0 0 B. 4.25-In. ID HSA 20 Lineal Foot Lineal Foot 0 0 B. 4.25-In. ID HSA NA Lineal Foot Lineal Foot 0 0 C. 6.25-In. ID HSA NA Lineal Foot Lineal Foot 0 0 C. 6.25-In. ID HSA NA Lineal Foot Lineal Foot 0 0 C. 6.25-In. ID HSA NA Lineal Foot Lineal Foot Lineal Foot 0 </td <td>2A.</td> <td>HOI</td> <td>LOW STEM AUGER</td> <td></td> <td></td> <td></td> <td></td> <td></td>	2A.	HOI	LOW STEM AUGER					
A. 2.25- In. ID HSA 12 Lineal Foot United Foot 2.25 B. 3.25- In. ID HSA 12 Lineal Foot 2.25 Lineal Foot 0 C. 4.25- In. ID HSA 13 Lineal Foot 60 Lineal Foot 0 C. 4.25- In. ID HSA 14 Lineal Foot 60 Lineal Foot 0 (2) 50-100 FEET IN DEPTH 24 Lineal Foot Lineal Foot 0 A. 3.25- In. ID HSA 13 Lineal Foot Lineal Foot 0 0 C. 6.25- In. ID HSA 13 Lineal Foot Lineal Foot 0 0 B. 4.25- In. ID HSA 13 Lineal Foot Lineal Foot 0 0 G. 3.25- In. ID HSA NA NA Lineal Foot Lineal Foot 0 0 A. 3.25- In. ID HSA NA Lineal Foot Lineal Foot 0 <		(1)	0-50 FEET IN DEPTH		}		ļ	
B. 3.25- In. ID HSA 12 Lineal Foot 227 Lineal Foot 27,00 C. 4.25- In. ID HSA 13 Lineal Foot 00 0.6 6.25- In. ID HSA 16 Lineal Foot 00 D. 6.25- In. ID HSA 16 Lineal Foot 00 0 (2) 50-100 FEET IN DEPTH 700 Lineal Foot 00 0 A. 3.25- In. ID HSA 13 Lineal Foot Lineal Foot 0 C. 6.25- In. ID HSA 10 Lineal Foot Lineal Foot 0 D. 8.25- In. ID HSA 20 Lineal Foot Lineal Foot 0 A. 3.25- In. ID HSA NA Lineal Foot Lineal Foot 0 A. 3.25- In. ID HSA NA Lineal Foot Lineal Foot 0 C. 6.25- In. ID HSA NA Lineal Foot Lineal Foot 0 C. 6.25- In. ID HSA NA Lineal Foot Lineal Foot 0 C. 6.25- In. ID HSA			A. 2.25- In. ID HSA	12	Lineal Foot		Lineal Foot	0
C. 4.25- In. ID HSA 13 Lineal Foot Lineal Foot 0 D. 6.25- In. ID HSA 24 Lineal Foot 60 Lineal Foot 0 C. 5.25- In. ID HSA 24 Lineal Foot 1 A. 3.25- In. ID HSA 13 Lineal Foot 1 A. 3.25- In. ID HSA 13 Lineal Foot 1 A. 3.25- In. ID HSA 13 Lineal Foot 1 D. 8.25- In. ID HSA 20 Lineal Foot 1 D. 8.25- In. ID HSA 20 Lineal Foot 1 D. 8.25- In. ID HSA 20 Lineal Foot 1 A. 3.25- In. ID HSA 20 Lineal Foot 1 D. 8.25- In. ID HSA 20 Lineal Foot 1 D. 8.25- In. ID HSA 20 Lineal Foot 1 A. 3.25- In. ID HSA 20 Lineal Foot 1 C. 6.25- In. ID HSA 20 Lineal Foot 1 A. 3.25- In. ID HSA 20 Lineal Foot 1 C. 6.25- In. ID HSA 20 Lineal Foot 1 D. 10-200 FEET IN DEPTH 20 Lineal Foot 1 C. 6.25- In. ID HSA 20 Lineal Foot 1 D. 10-1NCH DIAMETER BIT 30 Lineal Foot 1 A. 4-INCH DIAMETER BIT 40 Lineal Foot 1 A. 4-INCH DIAMETER BIT 45 Lineal Foo			B. 3.25- In. ID HSA	12	Lineal Foot	225	Lineal Foot	2,700
D. 6.25- In. ID HSA 16 Lineal Foot 960 E. 8.25- In. ID HSA 24 Uneal Foot 0 (2) 50-100 FEET IN DEPTH 24 Uneal Foot 0 A. 3.25- In. ID HSA 13 Lineal Foot 0 B. 4.25- In. ID HSA 13 Lineal Foot 0 C. 6.25- In. ID HSA 20 Lineal Foot 0 D. 8.25- In. ID HSA 20 Lineal Foot 0 G(3) 100-200 FEET IN DEPTH - - 0 A. 3.25- In. ID HSA NA Lineal Foot 0 G. 6.25- In. ID HSA NA Lineal Foot 0 G. 6.25- In. ID HSA NA Lineal Foot 0 C. 6.25- In. ID HSA NA Lineal Foot 0 ZD CABLE TOOL- Flush Joint or Coupled Casing - - 0 ZD SPIN TEMPORARY FLUSH JOINT CASTING 0 Lineal Foot 0 ZD MUD ROTARY - 10 Lineal Foot 0 C. 8-1NCH DIAMETER BIT 30 Lineal Foot Lineal Foot 0 C. 8-1NCH DIAMETER BIT 10 Lineal Foot <t< td=""><td>(</td><td></td><td>C. 4.25- In. ID HSA</td><td>13</td><td>Lineal Foot</td><td></td><td>Lineal Foot</td><td>-,</td></t<>	(C. 4.25- In. ID HSA	13	Lineal Foot		Lineal Foot	-,
E. 8.25- In. ID HSA 24 Lineal Foot 0 (2) 50-100 FEET IN DEPTH 13 Lineal Foot 0 A. 3.25- In. ID HSA 13 Lineal Foot 0 B. 4.25- In. ID HSA 15 Lineal Foot 0 C. 6.25- In. ID HSA 20 Lineal Foot Lineal Foot 0 D. 8.25- In. ID HSA 20 Lineal Foot Lineal Foot 0 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 C. 6.25- In. ID HSA NA Lineal Foot Lineal Foot 0 C. 6.25- In. ID HSA NA Lineal Foot Lineal Foot 0 C. 6.25- In. ID HSA NA Lineal Foot Lineal Foot 0 C. 6.25- In. ID HSA NA Lineal Foot Lineal Foot 0 C. 6.25- In. ID HSA NA Lineal Foot Lineal Foot 0 C. 6.1NCH DIAMETER BIT 30 Lineal Foot Lineal Foot 0			D. 6.25- In. ID HSA	16	Lineal Foot	60	Lineal Foot	960
(2) 50-100 FEET IN DEPTH A. 3.25- In. ID HSA 13 Lineal Foot 0 B. 4.25- In. ID HSA 15 Lineal Foot 0 C. 6.25- In. ID HSA 20 Lineal Foot 0 D. 8.25- In. ID HSA 20 Lineal Foot 0 G. 100-200 FEET IN DEPTH NA Lineal Foot 0 A. 3.25- In. ID HSA NA Lineal Foot 0 G. 6.25- In. ID HSA NA Lineal Foot 0 C. 6.25- In. ID HSA NA Lineal Foot 0 C. 6.25- In. ID HSA NA Lineal Foot 0 ZC SPIN TEMPORARY FLUSH JOINT CASTING 20 MUD ROTARY 0 (1) 0-50 FEET IN DEPTH 30 Lineal Foot 1 0 B. 6-INCH DIAMETER BIT 40 Lineal Foot Lineal Foot 0 D. 10-INCH DIAMETER BIT 80 Lineal Foot Lineal Foot 0 G. 5-INCH DIAMETER BIT 35 Lineal Foot Lineal Foot 0	ł		E. 8.25- In. ID HSA	24	Lineal Foot		Lineal Foot	0
A. 3.25- In. ID HSA 13 Lineal Foot Uneal Foot B. 4.25- In. ID HSA 15 Lineal Foot Uneal Foot C. 6.25- In. ID HSA 20 Lineal Foot Uneal Foot (3) 100-200 FEET IN DEPTH Uneal Foot Lineal Foot 00 (3) 100-200 FEET IN DEPTH Uneal Foot Lineal Foot 00 B. 4.25- In. ID HSA NA Lineal Foot Lineal Foot 00 C. 6.25- In. ID HSA NA Lineal Foot Lineal Foot 00 C. 6.25- In. ID HSA NA Lineal Foot Lineal Foot 00 ZE CABLE TOOL- Flush Joint or Coupled Casing Uneal Foot Lineal Foot 00 ZD MUD ROTARY UND ROTARY Uneal Foot Lineal Foot 00 A. 4-INCH DIAMETER BIT 30 Lineal Foot Lineal Foot 00 D. 10-INCH DIAMETER BIT 80 Lineal Foot 100 00 C. 8-INCH DIAMETER BIT 35 Lineal Foot 00 00 D. 10-INCH DIAME		(2)	50-100 FEET IN DEPTH					Ĵ
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 NA Lineal Foot Lineal Foot 0 A. 3.25- In. ID HSA NA Lineal Foot Lineal Foot 0 C. 6.25- In. ID HSA NA Lineal Foot Lineal Foot 0 Z. SPIN TEMPORARY FLUSH JOINT CASTING 20 Lineal Foot Lineal Foot 0 2D. MUD ROTARY FILT 30 Lineal Foot Lineal Foot 0 2D. MUD ROTARY 10-INCH DIAMETER BIT 30 Lineal Foot 10 0 C. 6-INCH DIAMETER BIT 30 Lineal Foot Lineal Foot 0 0 D. 10-INCH DIAMETER BIT 60 Lineal Foot Lineal Foot 0 0 (2) 50-100 FEET IN DEPTH A 4-INCH DIAMETER BIT 35 Lineal Foot 1 0			A. 3.25- In. ID HSA	13	Lineal Foot		Lineal Foot	0
C. 6.25- In. ID HSA 20 Lineal Foot 0 D. 8.25- In. ID HSA NA Lineal Foot 0 (3) 100-200 FEET IN DEPTH NA Lineal Foot 0 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 20 C. 6.25- In. ID HSA NA Lineal Foot Lineal Foot 0 21 C. 6.25- In. ID HSA NA Lineal Foot Lineal Foot 0 22 CABLE TOOL- Flush Joint or Coupled Casing 20 IUD ROTARY 0 1			B. 4.25- In. ID HSA	15	Lineal Foot		Lineal Foot	0
D. 8.25- In. ID HSA NA Lineal Foot Uneal Foot (3) 100-200 FEET IN DEPTH NA Lineal Foot 0 A. 3.25- In. ID HSA NA Lineal Foot 0 B. 4.25- In. ID HSA NA Lineal Foot 0 C. 6.25- In. ID HSA NA Lineal Foot 0 2B CABLE TOOL- Flush Joint or Coupled Casing 0 0 0 2C SPIN TEMPORARY FLUSH JOINT CASTING 20 0 0 0 2D. MUD ROTARY 0 Lineal Foot Lineal Foot 0 2D. MUD ROTARY 0 Lineal Foot Lineal Foot 0 2D. MUD ROTARY 0 Lineal Foot Lineal Foot 0 2D. MUD ROTARY 0 Lineal Foot Lineal Foot 0 2D. MUD ROTARY 10 Lineal Foot Lineal Foot 0 2D. MUD ROTARY 10 Lineal Foot Lineal Foot 0 0 2D. 10-INCH DIAMETER BIT 30 Lineal Foot Lineal Foot </td <td></td> <td></td> <td>C. 6.25- In. ID HSA</td> <td>20</td> <td>Lineal Foot</td> <td></td> <td>Lineal Foot</td> <td>0</td>			C. 6.25- In. ID HSA	20	Lineal Foot		Lineal Foot	0
(3) 100-200 FEET IN DEPTH NA Lineal Foot 0 A. 3.25- In. ID HSA NA Lineal Foot 0 B. 4.25- In. ID HSA NA Lineal Foot 0 C. 6.25- In. ID HSA NA Lineal Foot 0 ZB CABLE TOOL- Flush Joint or Coupled Casing 0 0 ZC SPIN TEMPORARY FLUSH JOINT CASTING 0 0 ZD MUD ROTARY 1 0 Lineal Foot 0 XD Uneal Foot Lineal Foot 0 0 ZD MUD ROTARY 1 0 Lineal Foot 0 XD 10-50 FEET IN DEPTH 40 Lineal Foot 0 0 A. 4-INCH DIAMETER BIT 60 Lineal Foot 0 0 0 D. 10-INCH DIAMETER BIT 80 Lineal Foot 0			D. 8.25- In. ID HSA	NA	Lineal Foot		Lineal Foot	° 0
A. 3.25- In. ID HSA NA Lineal Foot 0 B. 4.25- In. ID HSA NA Lineal Foot 0 C. 6.25- In. ID HSA NA Lineal Foot 0 2B CABLE TOOL- Flush Joint or Coupled Casing NA Lineal Foot 0 2C SPIN TEMPORARY FLUSH JOINT CASTING NA Lineal Foot 0 2D MUD ROTARY 10-50 FEET IN DEPTH 0 10-60 FEET IN DEPTH 0 A. 4-INCH DIAMETER BIT 30 Lineal Foot Lineal Foot 0 D. 10-INCH DIAMETER BIT 60 Lineal Foot 10-100 FEET IN DEPTH 0 A. 4-INCH DIAMETER BIT 80 Lineal Foot 10-100 FEET IN DEPTH 0 A. 4-INCH DIAMETER BIT 35 Lineal Foot 10-100 FEET IN DEPTH 0 A. 4-INCH DIAMETER BIT 35 Lineal Foot 10-100 FEET IN DEPTH 0 A. 4-INCH DIAMETER BIT 35 Lineal Foot 10-10-100 FEET IN DEPTH 0 10-10-100 FEET IN DEPTH 0 10-10-100 FEET IN DEPTH 0 10-10-100 FEET IN DEPTH 0 </td <td></td> <td>(3)</td> <td>100-200 FEET IN DEPTH</td> <td></td> <td></td> <td></td> <td></td> <td>Ű</td>		(3)	100-200 FEET IN DEPTH					Ű
B. 4.25- In. ID HSA NA Lineal Foot 0 C. 6.25- In. ID HSA NA Lineal Foot 0 2B CABLE TOOL- Flush Joint or Coupled Casing 2 SPIN TEMPORARY FLUSH JOINT CASTING 1 1 2C SPIN TEMPORARY FLUSH JOINT CASTING 1 1 0 0 2D MUD ROTARY 1 0 1 0 1 2D. MUD ROTARY 1 30 Lineal Foot 0 0 2D. MUD ROTARY 1 0 1 0 1 0 0 0 3D. 6-INCH DIAMETER BIT 30 Lineal Foot 1 0 0 0 0. 10-INCH DIAMETER BIT 60 Lineal Foot 1 0 <t< td=""><td>1</td><td></td><td>A. 3.25- In. ID HSA</td><td>NA</td><td>Lineal Foot</td><td></td><td>Lineal Foot</td><td>0</td></t<>	1		A. 3.25- In. ID HSA	NA	Lineal Foot		Lineal Foot	0
C. 6.25- In. ID HSA NA Lineal Foot Lineal Foot Casing 20 SPIN TEMPORARY FLUSH JOINT CASTING 21 MUD ROTARY (1) 0-50 FEET IN DEPTH A. 4-INCH DIAMETER BIT 30 Lineal Foot Lineal Foot 00 B. 6-INCH DIAMETER BIT 40 Lineal Foot Lineal Foot 00 D. 10-INCH DIAMETER BIT 80 Lineal Foot Lineal Foot 00 D. 10-INCH DIAMETER BIT 80 Lineal Foot Lineal Foot 00 C. 8-INCH DIAMETER BIT 75 Lineal Foot Lineal Foot 00 D. 10-INCH DIAMETER BIT 75 Lineal Foot Lineal Foot 00 D. 10-INCH DIAMETER BIT 75 Lineal Foot Lineal Foot 00 D. 10-INCH DIAMETER BIT 75 Lineal Foot Lineal Foot 00 D. 10-INCH DIAMETER BIT 75 Lineal Foot 16 C. 8-INCH D	[B. 4.25- In. ID HSA	NA	Lineal Foot		Lineal Foot	0
2B CABLE TOOL- Flush Joint or Coupled Casing Image of the second se			C. 6.25- In. ID HSA	NA	Lineal Foot		Lineal Foot	0
2C SPIN TEMPORARY FLUSH JOINT CASTING 2D. MUD ROTARY (1) 0-50 FEET IN DEPTH A. 4-INCH DIAMETER BIT 30 Lineal Foot 00 B. 6-INCH DIAMETER BIT 40 Lineal Foot 00 C. 8-INCH DIAMETER BIT 60 Lineal Foot 00 D. 10-INCH DIAMETER BIT 80 Lineal Foot 00 (2) 50-100 FEET IN DEPTH 80 Lineal Foot 00 A. 4-INCH DIAMETER BIT 35 Lineal Foot 00 B. 6-INCH DIAMETER BIT 35 Lineal Foot 00 B. 6-INCH DIAMETER BIT 35 Lineal Foot 00 D. 10-INCH DIAMETER BIT 35 Lineal Foot 00 D. 10-INCH DIAMETER BIT 90 Lineal Foot 00 D. 10-INCH DIAMETER BIT 35 Lineal Foot 00 G(3) 100-200 FEET IN DEPTH 35 Lineal Foot 00 A. 4-INCH DIAMETER BIT 35 Lineal Foot 00 0 G. 3-INCH DIAMETER BIT 35 Lineal Foot 00 0 D. 10-INCH DIAMETER BIT 90	2B	CAE	BLE TOOL- Flush Joint or Coupled Casing					Ű
2D. MUD ROTARY (1) 0-50 FEET IN DEPTH 30 Lineal Foot 100 A. 4-INCH DIAMETER BIT 30 Lineal Foot 100 0 B. 6-INCH DIAMETER BIT 40 Lineal Foot 100 0 C. 8-INCH DIAMETER BIT 60 Lineal Foot 100 0 D. 10-INCH DIAMETER BIT 80 Lineal Foot 100 A. 4-INCH DIAMETER BIT 80 Lineal Foot 00 (2) 50-100 FEET IN DEPTH 80 Lineal Foot 00 A. 4-INCH DIAMETER BIT 35 Lineal Foot 00 B. 6-INCH DIAMETER BIT 45 Lineal Foot 00 C. 8-INCH DIAMETER BIT 90 Lineal Foot 00 D. 10-INCH DIAMETER BIT 90 Lineal Foot 00 G(3) 100-200 FEET IN DEPTH 35 Lineal Foot 00 A. 4-INCH DIAMETER BIT 35 Lineal Foot 00 0 B. 6-INCH DIAMETER BIT 35 Lineal Foot 00 0 B. 6-INCH DIAMETER BIT 35 Lineal Foot 00 0 B. 6-INCH DIAMETER BIT 90	2C	SPI	N TEMPORARY FLUSH JOINT CASTING	ł				
(1) 0-50 FEET IN DEPTH A. 4-INCH DIAMETER BIT 30 Lineal Foot 0 B. 6-INCH DIAMETER BIT 40 Lineal Foot 0 C. 8-INCH DIAMETER BIT 60 Lineal Foot 0 D. 10-INCH DIAMETER BIT 80 Lineal Foot 0 (2) 50-100 FEET IN DEPTH 80 Lineal Foot 0 A. 4-INCH DIAMETER BIT 35 Lineal Foot 0 B. 6-INCH DIAMETER BIT 35 Lineal Foot 0 B. 6-INCH DIAMETER BIT 45 Lineal Foot 0 0 C. 8-INCH DIAMETER BIT 45 Lineal Foot 0 0 D. 10-INCH DIAMETER BIT 90 Lineal Foot 0 0 J. 10-INCH DIAMETER BIT 90 Lineal Foot 0 0 J. 10-INCH DIAMETER BIT 35 Lineal Foot 0 0 J. 10-INCH DIAMETER BIT 35 Lineal Foot 0 0 B. 6-INCH DIAMETER BIT 45 Lineal Foot	2D.	MU	D ROTARY		1			
A.4-INCH DIAMETER BIT30Lineal FootLineal Foot0B.6-INCH DIAMETER BIT40Lineal FootLineal Foot0C.8-INCH DIAMETER BIT60Lineal FootLineal Foot0D.10-INCH DIAMETER BIT80Lineal FootLineal Foot0(2)50-100 FEET IN DEPTH35Lineal FootLineal Foot0A.4-INCH DIAMETER BIT35Lineal FootLineal Foot0B.6-INCH DIAMETER BIT45Lineal Foot00C.8-INCH DIAMETER BIT65Lineal Foot00D.10-INCH DIAMETER BIT90Lineal Foot00J.10-INCH DIAMETER BIT90Lineal Foot00(3)100-200 FEET IN DEPTH45Lineal Foot00A.4-INCH DIAMETER BIT35Lineal Foot10(3)100-200 FEET IN DEPTH45Lineal Foot00A.4-INCH DIAMETER BIT35Lineal Foot00D.10-INCH DIAMETER BIT65Lineal Foot00C.8-INCH DIAMETER BIT90Lineal Foot00(4)GREATER THAN 200 FEET IN DEPTH40Lineal Foot00A.4-INCH DIAMETER BIT50Lineal Foot00(4)GREATER THAN 200 FEET IN DEPTH50Lineal Foot00A.4-INCH DIAMETER BIT50Lin		(1)	0-50 FEET IN DEPTH	1				
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 80 Lineal Foot Lineal Foot 0 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 1 0 0 J 100-200 FEET IN DEPTH 90 Lineal Foot 0 0 0 A. 4-INCH DIAMETER BIT 35 Lineal Foot 1 0 0 J 100-200 FEET IN DEPTH 7 Lineal Foot 0 0 0 A. 4-INCH DIAMETER BIT 35 Lineal Foot Lineal Foot 0 0 D. 10-INCH DIAMETER BIT 90 Lineal Foot Lineal Foot 0 0 G. 8-INCH DIAMETER BIT 90			A. 4-INCH DIAMETER BIT	30	Lineal Foot		Lineal Foot	0
C. 8-INCH DIAMETER BIT 60 Lineal Foot Lineal Foot 0 D. 10-INCH DIAMETER BIT 80 Lineal Foot 1 (2) 50-100 FEET IN DEPTH A. 4-INCH DIAMETER BIT 35 Lineal Foot 1 C. 8-INCH DIAMETER BIT 65 Lineal Foot 1 D. 10-INCH DIAMETER BIT 65 Lineal Foot 1 O. 10-INCH DIAMETER BIT 90 Lineal Foot 1 O. 10-INCH DIAMETER BIT 90 Lineal Foot 1 A. 4-INCH DIAMETER BIT 90 Lineal Foot 1 A. 4-INCH DIAMETER BIT 90 Lineal Foot 1 C. 8-INCH DIAMETER BIT 90 Lineal Foot 1 D. 10-INCH DIAMETER BIT 90 Lineal Foot 1 A. 4-INCH DIAMETER BIT 90 Lineal Foot 1 A. 4-INCH DIAMETER BIT 90 Lineal Foot 1 C. 8-INCH DIAMETER BIT 90 Lineal Foot 1 A. 4-INCH DIAMETER BIT 90 Lineal Foot 1 A. 4-INCH DIAMETER BIT 90 Lineal Foot 1 C. 8-INCH DIAMETER BIT 90 Lineal Foot 1 A. 4-INCH 90 LINCH 90	ł		B. 6-INCH DIAMETER BIT	40	Lineal Foot		Lineal Foot	0
D.10-INCH DIAMETER BIT80Lineal FootLineal Foot0(2)50-100 FEET IN DEPTH35Lineal Foot10A.4-INCH DIAMETER BIT35Lineal Foot10B.6-INCH DIAMETER BIT45Lineal Foot00C.8-INCH DIAMETER BIT65Lineal Foot00D.10-INCH DIAMETER BIT90Lineal Foot00(3)100-200 FEET IN DEPTH35Lineal Foot00A.4-INCH DIAMETER BIT35Lineal Foot00B.6-INCH DIAMETER BIT45Lineal Foot00C.8-INCH DIAMETER BIT65Lineal Foot00D.10-INCH DIAMETER BIT45Lineal Foot00C.8-INCH DIAMETER BIT65Lineal Foot00D.10-INCH DIAMETER BIT90Lineal Foot00C.8-INCH DIAMETER BIT90Lineal Foot00(4)GREATER THAN 200 FEET IN DEPTH40Lineal Foot00A.4-INCH DIAMETER BIT40Lineal Foot00B.6-INCH DIAMETER BIT50Lineal Foot00C.8-INCH DIAMETER BIT50Lineal Foot00B.6-INCH DIAMETER BIT50Lineal Foot00C.8-INCH DIAMETER BIT50Lineal Foot00C.8-INCH D			C. 8-INCH DIAMETER BIT	60	Lineal Foot		Lineal Foot	0
(2)50-100 FEET IN DEPTH35Lineal Foot00A.4-INCH DIAMETER BIT35Lineal Foot0B.6-INCH DIAMETER BIT45Lineal Foot0C.8-INCH DIAMETER BIT65Lineal Foot0D.10-INCH DIAMETER BIT90Lineal Foot0(3)100-200 FEET IN DEPTH35Lineal Foot0A.4-INCH DIAMETER BIT35Lineal Foot0B.6-INCH DIAMETER BIT35Lineal Foot0C.8-INCH DIAMETER BIT45Lineal Foot0C.8-INCH DIAMETER BIT65Lineal Foot0C.8-INCH DIAMETER BIT90Lineal Foot0C.8-INCH DIAMETER BIT90Lineal Foot0C.8-INCH DIAMETER BIT90Lineal Foot0C.8-INCH DIAMETER BIT90Lineal Foot0C.8-INCH DIAMETER BIT40Lineal Foot0C.8-INCH DIAMETER BIT50Lineal Foot0C.8-INCH DIAMETER BIT40Lineal Foot0B.6-INCH DIAMETER BIT50Lineal Foot0C.8-INCH DIAMETER BIT50Lineal Foot0C.8-INCH DIAMETER BIT70Lineal Foot0C.8-INCH DIAMETER BIT70Lineal Foot0C.8-INCH DIAMETER BIT70Lineal Foot0C.8-INCH DIAMETER BIT70Lineal Foot <td></td> <td></td> <td>D. 10-INCH DIAMETER BIT</td> <td>80</td> <td>Lineal Foot</td> <td></td> <td>Lineal Foot</td> <td>0</td>			D. 10-INCH DIAMETER BIT	80	Lineal Foot		Lineal Foot	0
A.4-INCH DIAMETER BIT35Lineal FootLineal Foot0B.6-INCH DIAMETER BIT45Lineal Foot00C.8-INCH DIAMETER BIT65Lineal Foot00D.10-INCH DIAMETER BIT90Lineal Foot00(3)100-200 FEET IN DEPTH90Lineal Foot00A.4-INCH DIAMETER BIT35Lineal Foot00B.6-INCH DIAMETER BIT35Lineal Foot00C.8-INCH DIAMETER BIT65Lineal Foot00D.10-INCH DIAMETER BIT65Lineal Foot00C.8-INCH DIAMETER BIT90Lineal Foot00C.8-INCH DIAMETER BIT90Lineal Foot00(4)GREATER THAN 200 FEET IN DEPTH40Lineal Foot00A.4-INCH DIAMETER BIT40Lineal Foot00B.6-INCH DIAMETER BIT50Lineal Foot00B.6-INCH DIAMETER BIT50Lineal Foot00C.8-INCH DIAMETER BIT50Lineal Foot00B.6-INCH DIAMETER BIT50Lineal Foot00C.8-INCH DIAMETER BIT50Lineal Foot00C.8-INCH DIAMETER BIT70Lineal Foot002E.AIR ROTARY70Lineal Foot00		(2)	50-100 FEET IN DEPTH		ĺ		l l	
B.6-INCH DIAMETER BIT45Lineal Foot0C.8-INCH DIAMETER BIT65Lineal Foot0D.10-INCH DIAMETER BIT90Lineal Foot0(3)100-200 FEET IN DEPTH90Lineal Foot0A.4-INCH DIAMETER BIT35Lineal Foot0B.6-INCH DIAMETER BIT45Lineal Foot0C.8-INCH DIAMETER BIT45Lineal Foot0D.10-INCH DIAMETER BIT65Lineal Foot0D.10-INCH DIAMETER BIT90Lineal Foot0C.8-INCH DIAMETER BIT90Lineal Foot0J.10-INCH DIAMETER BIT90Lineal Foot0GREATER THAN 200 FEET IN DEPTH40Lineal Foot0A.4-INCH DIAMETER BIT40Lineal Foot0GREATER THAN 200 FEET IN DEPTH50Lineal Foot0A.4-INCH DIAMETER BIT50Lineal Foot0B.6-INCH DIAMETER BIT50Lineal Foot0C.8-INCH DIAMETER BIT50Lineal Foot0C.8-INCH DIAMETER BIT70Lineal Foot0ZE.AIR ROTARY22AIR ROTARY2323			A. 4-INCH DIAMETER BIT	35	Lineal Foot		Lineal Foot	0
C.8-INCH DIAMETER BIT65Lineal FootLineal Foot0D.10-INCH DIAMETER BIT90Lineal FootLineal Foot0(3)100-200 FEET IN DEPTH35Lineal FootLineal Foot0A.4-INCH DIAMETER BIT35Lineal FootLineal Foot0B.6-INCH DIAMETER BIT45Lineal Foot00C.8-INCH DIAMETER BIT65Lineal Foot00D.10-INCH DIAMETER BIT90Lineal Foot00(4)GREATER THAN 200 FEET IN DEPTH40Lineal Foot00A.4-INCH DIAMETER BIT40Lineal Foot00B.6-INCH DIAMETER BIT50Lineal Foot00B.6-INCH DIAMETER BIT70Lineal Foot00C.8-INCH DIAMETER BIT70Lineal Foot00C.8-INCH DIAMETER BIT70Lineal Foot002E.AIR ROTARY70Lineal Foot00	}		B. 6-INCH DIAMETER BIT	45	Lineal Foot		Lineal Foot	0
D.10-INCH DIAMETER BIT90Lineal FootLineal Foot00(3)100-200 FEET IN DEPTH35Lineal FootLineal Foot00A.4-INCH DIAMETER BIT35Lineal FootLineal Foot00B.6-INCH DIAMETER BIT45Lineal Foot00C.8-INCH DIAMETER BIT65Lineal Foot00D.10-INCH DIAMETER BIT90Lineal Foot00(4)GREATER THAN 200 FEET IN DEPTH40Lineal Foot00A.4-INCH DIAMETER BIT40Lineal Foot00B.6-INCH DIAMETER BIT50Lineal Foot00C.8-INCH DIAMETER BIT70Lineal Foot002E.AIR ROTARY70Lineal Foot00			C. 8-INCH DIAMETER BIT	65	Lineal Foot		Lineal Foot	0
(3)100-200 FEET IN DEPTH35Lineal FootLineal Foot0A.4-INCH DIAMETER BIT35Lineal FootLineal Foot0B.6-INCH DIAMETER BIT45Lineal Foot0C.8-INCH DIAMETER BIT65Lineal Foot0D.10-INCH DIAMETER BIT90Lineal Foot0(4)GREATER THAN 200 FEET IN DEPTH40Lineal Foot0A.4-INCH DIAMETER BIT50Lineal Foot0B.6-INCH DIAMETER BIT50Lineal Foot0C.8-INCH DIAMETER BIT70Lineal Foot02E.AIR ROTARY70Lineal Foot0]		D. 10-INCH DIAMETER BIT	90	Lineal Foot		Lineal Foot	0
A. 4-INCH DIAMETER BIT 35 Lineal Foot 0 B. 6-INCH DIAMETER BIT 45 Lineal Foot 0 C. 8-INCH DIAMETER BIT 65 Lineal Foot 0 D. 10-INCH DIAMETER BIT 90 Lineal Foot 0 (4) GREATER THAN 200 FEET IN DEPTH 40 Lineal Foot 0 A. 4-INCH DIAMETER BIT 40 Lineal Foot 0 B. 6-INCH DIAMETER BIT 50 Lineal Foot 0 C. 8-INCH DIAMETER BIT 50 Lineal Foot 0 ZE. AIR ROTARY 70 Lineal Foot 0		(3)	100-200 FEET IN DEPTH				Í	
B. 6-INCH DIAMETER BIT 45 Lineal Foot 0 C. 8-INCH DIAMETER BIT 65 Lineal Foot 0 D. 10-INCH DIAMETER BIT 90 Lineal Foot 0 (4) GREATER THAN 200 FEET IN DEPTH 40 Lineal Foot 0 A. 4-INCH DIAMETER BIT 40 Lineal Foot 0 B. 6-INCH DIAMETER BIT 50 Lineal Foot 0 C. 8-INCH DIAMETER BIT 50 Lineal Foot 0 C. 8-INCH DIAMETER BIT 50 Lineal Foot 0 C. 8-INCH DIAMETER BIT 70 Lineal Foot 0 ZE. AIR ROTARY 2 2 4 4	1		A. 4-INCH DIAMETER BIT	35	Lineal Foot		Lineal Foot	0
C. 8-INCH DIAMETER BIT 65 Lineal Foot Lineal Foot 0 D. 10-INCH DIAMETER BIT 90 Lineal Foot 10 (4) GREATER THAN 200 FEET IN DEPTH A. 4-INCH DIAMETER BIT 40 Lineal Foot 10 B. 6-INCH DIAMETER BIT 50 Lineal Foot 10 C. 8-INCH DIAMETER BIT 70 Lineal Foot 10 2E. AIR ROTARY	1		B. 6-INCH DIAMETER BIT	45	Lineal Foot		Lineal Foot	0
D. 10-INCH DIAMETER BIT 90 Lineal Foot 0 (4) GREATER THAN 200 FEET IN DEPTH 40 Lineal Foot 0 A. 4-INCH DIAMETER BIT 40 Lineal Foot 0 B. 6-INCH DIAMETER BIT 50 Lineal Foot 0 C. 8-INCH DIAMETER BIT 70 Lineal Foot 0 2E. AIR ROTARY 2 2 AIR ROTARY 2			C. 8-INCH DIAMETER BIT	65	Lineal Foot		Lineal Foot	0
(4) GREATER THAN 200 FEET IN DEPTH 40 Lineal Foot 0 A. 4-INCH DIAMETER BIT 40 Lineal Foot 0 B. 6-INCH DIAMETER BIT 50 Lineal Foot 0 C. 8-INCH DIAMETER BIT 70 Lineal Foot 0 2E. AIR ROTARY 70 Lineal Foot 0			D. 10-INCH DIAMETER BIT	90	Lineal Foot		Lineal Foot	0
A. 4-INCH DIAMETER BIT 40 Lineal Foot 0 B. 6-INCH DIAMETER BIT 50 Lineal Foot 0 C. 8-INCH DIAMETER BIT 70 Lineal Foot 0 2E. AIR ROTARY 40 Lineal Foot 0		(4)	GREATER THAN 200 FEET IN DEPTH					Ĩ
B. 6-INCH DIAMETER BIT 50 Lineal Foot 0 C. 8-INCH DIAMETER BIT 70 Lineal Foot 0 2E. AIR ROTARY 0			A. 4-INCH DIAMETER BIT	40	Lineal Foot		Lineal Foot	0
C. 8-INCH DIAMETER BIT 70 Lineal Foot 0 2E. AIR ROTARY	1		B. 6-INCH DIAMETER BIT	50	Lineal Foot		Lineal Foot	0
2E. AIR ROTARY			C. 8-INCH DIAMETER BIT	70	Lineal Foot		Lineal Foot	0
	2E.	AIR	ROTARY	}				5
3.	ROCK CORING (1) 0-50 FEET IN DEPTH A. NX-CORING B. HX-CORING	40	Lineal Foot		Lineal Foot	0		
-----	---	-----------	---------------------------------------	-----	-------------	-------		
	(1) 0-50 FEET IN DEPTH A. NX-CORING B. HX-CORING	40	Lineal Foot		Lineal Foot	0		
	A. NX-CORING B. HX-CORING	40	Lineal Foot		Lineal Foot			
	B. HX-CORING					Ň		
		50	Lineal Foot		Lineal Foot	0		
	C. NQ-CORING	40	Lineal Foot		Lineal Foot	0		
	D. HQ-CORING	50	Lineal Foot		Lineal Foot	0		
	(2) 50-100 FEET IN DEPTH							
	A. NX-CORING	40	Lineal Foot		Lineal Foot	0		
	B. HX-CORING	50	Lineal Foot		Lineal Foot	0		
	C. NQ-CORING	40	Lineal Foot		Lineal Foot	0		
	D. HQ-CORING	50	Lineal Foot		Lineal Foot	0		
	(3) 100-200 FEET IN DEPTH							
	A. NX-CORING	40	Lineal Foot		Lineal Foot	0		
	B. HX-CORING	50	Lineal Foot		Lineal Foot	0		
	C. NQ-CORING	40	Lineal Foot		Lineal Foot	0		
	D. HQ-CORING	50	Lineal Foot		Lineal Foot	0		
	(4) GREATER THAN 200 FEET IN DEPTH							
	A. NX-CORING	40	Lineal Foot		Lineal Foot	0		
	B. HX-CORING	50	Lineal Foot		Lineal Foot	0		
4	ROLLER BIT REAMING NX/NQ CORE HOLE TO 4-INCI	H DIAMETE	ER					
5	ROLLER BIT REAMING NX/NQ CORE HOLE TO 6-INCI	H DIAMETE	ER					
6	BORE HOLE SAMPLING							
6A.	SPLIT SPOON SAMPLING							
	(1) 0-50 FEET IN DEPTH							
	A. 2-INCH OD	20	Per Sample	143	Per Sample	2,860		
	B. 3-INCH OD	30	Per Sample	5	Per Sample	150		
	(2) 50-100 FEET IN DEPTH							
	A. 2-INCH OD	30	Per Sample		Per Sample	o		
	B. 3-INCH OD	45	Per Sample		Per Sample	0		
	(3) 100-200 FEET IN DEPTH		•			_		
	A. 2-INCH OD	45	Per Sample		Per Sample	0		
	B. 3-INCH OD	60	Per Sample		Per Sample	0		
	(4) GREATER THAN 200 FEET IN DEPTH		i i i i i i i i i i i i i i i i i i i			Ű		
	A. 2-INCH OD	150	Per Sample		Per Sample	0		
	B. 3-INCH OD	200	Per Sample		Per Sample	0		
6B	SHELBY TUBE SAMPLING		t of outpic		1 of outpic	Ű		
6C	HYDRO PUNCH SAMPLING							
7	BOREHOLE ABANDONMENT							
8	WELLSCREEN							
8A	SCHEDULE 40 PVC							
	A 1-INCH ID	2	Per Foot		Per Foot	0		
	B 2-INCH ID	8	Per Foot		Per Foot	0		
		10	Per Foot	40	Per Foot	400		
		10	Ferrout	40	Ferroot	400		
	D. 6-INCH ID	20	Per Foot		Per Foot	0		
	E 8-INCH ID	30	Per Foot		Per Foot	0		
88	SCHEDULE 80 PVC							
8C.	STAINLESS, SCHEDULE 5, TYPE 304							
	A. 2-INCH ID	15	Per Foot		Per Foot	0		
		30	Per Foot		Per Foot	0		
	C. 6-INCH ID	60	Per Foot		Per Foot	о		
BD	C. 6-INCH ID PRE-SAND PACKED STAINLESS STEEL WELL SCREEN,	60	Per Foot		Per Foot	0		

9 9A.			T				
9A.	WELL RISE	R					
	SCHEDULE	E 40 PVC]		
	Α.	1-INCH ID	2	Per Foot		Per Foot	
	В.	2-INCH ID	4	Per Foot		Per Foot	
	C.	4-INCH ID	6	Per Foot	20	Per Foot	120
	D.	6-INCH ID	15	Per Foot		Per Foot	
	E.	8-INCH ID	25	Per Foot		Per Foot	
9B,	SCHEDULE	80 PVC			1	1011000	
9C	STAINLESS	S, SCHEDULE 5, TYPE 304					
10	WELL SCRI	EEN SANDPACK MATERIAL	15	Bag (94) BS)	30	Bog (04 LBC)	1
	(No.00 TO N	No. 2 SIZE SAND)		bug (04 200)	00	Day (94 LDS)	450
11	BENTONIT	<i>````</i>			<u> </u>		
	Α.	PELLETS	50	5 Gallon Pail	ĺ		
	В.	POWDER	15	Bag (50 BS)		5 Gallon Pall	
	C	GRANULAR	20	Bag (50 LBS)		Bag (50 LBS)	
12	GROUT			Bag (50 LBS)		Bag (50 LBS)	40
	ΔΔ		20	D (0.1 D.D.)			
	А.		30	Bag (94 LBS)		Bag (94 LBS)	
			30	Bag (94 LBS)	6	Bag (94 LBS)	180
10	(1) COL	TON OF OUTER CASING FOR MULTI-CASED WELLS	ļ		ļ		
	(1) SUR						
	А.	4-INCH DIAMETER	20	Per Foot		Per Foot	
	В.	6-INCH DIAMETER	30	Per Foot		Per Foot	{ (
	C.	8-INCH DIAMETER	40	Per Foot		Per Foot	
	D.	10-INCH DIAMETER	50	Per Foot]	Per Foot	
1	(2) SCH	EDULE 80 PVC					
1	(3) CAR	BON STEEL					
	Α.	4-INCH DIAMETER	25	Per Foot	ł	Per Foot	
	В.	6-INCH DIAMETER	30	Per Foot		Per Foot	
	С.	8-INCH DIAMETER	40	Per Foot		Per Foot	
	D.	10-INCH DIAMETER	50	Per Foot	ĺ	Per Foot	
14	INSTALLAT	ION OF PROTECTIVE CASINGS			— ——		`
14A	FLUSH MOI	UNT SURFACE CASING					
	(1) FLU	SH MOUNT WITH LOCKING COVER. DRAIN HOLE					
	SET	IN A 2'X2' CONCRETE PAD EXTENDING AT					
	LEAS	ST 6 INCHES BELOW GROUND SUBFACE	[ĺ		
	Δ		200	DC			
	в.	6-INCH ID	200	Per Casing)	Per Casing	
	c.		200	Per Casing		Per Casing	
14B			200	Per Casing	2	Per Casing	400
0	(1) 6 Eo	at Brotastive Surface Casing with Lasting Occurs			ł		
	(1) 0-FU Drain	bit Protective Surface Casing, with Locking Cover,					
	Drain	the least of the second and and and an analysis of the second and and and and and and and and and a])]
	a roo	abelow ground surface.					
	A. _	4- INCH ID	200	Per Casing		Per Casing	
	В.	6-INCH ID	250	Per Casing	}	Per Casing	
	C.	8-INCH ID	300	Per Casing		Per Casing	(
14C	KEYED ALI		10	Per Lock	2	Per Lock	2(
15 (CONTAINE	RIZATION OF DRILLING MATERIAL AND			[[
:	STAGING (ON PALLETS)					
	Α.	PROVIDE CLEAN EMPTY DOT APPROVED 55	50	Per 55	10	Per 55	500
		GALLON DRUMS WITH SEALS, BUNGS, AND LIDS	1	Gallon Drum	1	Gallon Drum	
		PROVIDE CONTAMINMENT AND STAGING OF USED	50	Per 55		Per 55	
	В.		1		Í -	Gallon Drum	l
	В.	DISPOSABLE PPE CLOTHING ONSITE ON PALLETS		Gallon Drum	1		
	В. С.	DISPOSABLE PPE CLOTHING ONSITE ON PALLETS FILLING, MOVING, STAGING 55 GALLON DRUMS	75	Per 55	10	Per 55	75
	В. С.	DISPOSABLE PPE CLOTHING ONSITE ON PALLETS FILLING, MOVING, STAGING 55 GALLON DRUMS ON-SITE ON PALLETS	75	Per 55	10	Per 55	75
	B. C.	DISPOSABLE PPE CLOTHING ONSITE ON PALLETS FILLING, MOVING, STAGING 55 GALLON DRUMS ON-SITE ON PALLETS	75	Per 55 Gallon Drum	10	Per 55 Gallon Drum	750
	B. C. D.	DISPOSABLE PPE CLOTHING ONSITE ON PALLETS FILLING, MOVING, STAGING 55 GALLON DRUMS ON-SITE ON PALLETS MOVE FILLED DRUMS TO SECONDARY LOCATION WITHIN 1 MILE OF DRUK CITE	75	Per 55 Gallon Drum Per 55	10	Per 55 Gallon Drum Per 55	750

(international states)

	A. BAILING	45	Per Hour	0	Per Hour	0
	B. PUMP AND SURGE (submersible, centrifugal)	65	Per Hour	12	Per Hour	780
	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		Lump Sum	0
	B. RUBBER TIRE (10 FOOT EXCAVATION IN DEP	гн) 90	Per Hour		Per Hour	0
	C. TRACKED (20-FOOT EXCAVATION IN DEPTH)	130	Per Hour		Per Hour	0
	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	9				
	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	s				
	test in a 100-foot well 100 feet of discharge piping					
	(1) 0-50 GALLON PER MINUTE TEST	65	Per Hour	48	Per Hour	3,120
	(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	250	Per Day		Per Day	0
	unavailable provide additional laborer and vehicle with					
	minimum 500-gallon capacity to supply portable water to drill rig					
22	STANDBY TIME	200	Per Hour	4	Per Hour	800
23	LABOR CHARGE for services not listed in the Price		Per Hour		Per Hour	
	Quotation Schedule					
	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	0.00%	Percent	1	Percent	
	(indicate which items would be afected)					
				Subtotal		\$18,980
				Management	Fee	\$664
				rotar		\$19,644

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SCHEDULE 2.11 (f) 2 UNIT PRICE SUBCONTRACTS 93 Main Street Site Work Assignment Number D003600-40

ELC C SUBJON TRACTOR BERVICES TO BE EXPERIENCE PAICE							SUBCONTRACT	MANAGEMENT
KEXI. Ke. (MBC) Sample Analysis Stade Sol 13.33 Stade Sol 13.33 Katama Pathember Sol 13.33 Katama Pathember Sol 13.33 Turnanound Sol 13.33 Stade Sol 13.33 <	IAME OF SUBCONTRACT	TOR SE	RVICES TO BE PERF	ORMED			PRICE	FEE
National Februaries Description Expension Expension Image Mathy Notation Fillio 20, Ramids 1 Res State Secon Description CLMOND 7 Sillio 20, Ramids 1 8 Sillio 20, Ramids 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 <td< th=""><th>IITKEM, Inc. (MBE)</th><th>Sa</th><th>mple Analysis</th><th></th><th></th><th></th><th>\$38,085</th><th>\$1,333</th></td<>	IITKEM, Inc. (MBE)	Sa	mple Analysis				\$38,085	\$1,333
Matham Matham Entitationship Transoume					E	xpedited		
Item Method Refe Multiplie of Inf. Sensor SexCols CMM042 \$1100 Amrupe 1 B \$980 SVCCs CMM042 \$2250 Marupe 1 B \$11,00 SVCCs CMM042 \$1100 Marupe 1 B \$300 guidacL200s CMM042 \$1100 Marupe 1 B \$300 guidacL200s CMM042 \$1100 Marupe 1 B \$300 SVCCs CMM042 \$1100 Marupe 1 B \$300 Motional SVCCs CMM042 \$11000 Marupe 1 B \$300 Motional SVCCs CMM042 \$11000 Marupe 1 2 \$200 Motional SVCCs CMM042 \$11000 Marupe 1 2 \$200 Motional SVCCs CMM042 \$11000 Marupe 1 2 \$200 Marupe				Maximum Reimburse	ement Tu	rnaround	Estimated No.	Total Estimated
Base Song VCGs OLMOR 2 S11000 Assingte 1 8 55000 PentiosesPCRs OLMOR 2 S12000 Stangte 1 8 51,000 SVOCs OLMOR 2 S11000 Assingte 1 8 51,000 summore constraints VVCs OLMOR 2 S11000 Assingte 1 8 51,000 summore constraints VVCs OLMOR 2 S11000 Assingte 1 8 51,000 summore constraints VVCs OLMOR 2 S11000 Assingte 1 8 51,000 summore constraints VVCs OLMOR 2 S11000 Assingte 1 8 51,000 summore constraints VVCs OLMOR 2 S11000 Assingte 1 2 52,000 summore constraints VVCs OLMOR 2 S11000 Assingte 1 2 52,000 summore constraints VVCs OLMOR 2 S11000 Assingte 1 2		Item	Method	Rate	N	Aultiplier	of Units	Costs
SVOC6 OLMO42 Statumple 1 8 Statumple TAL Metals and Cyanda OLMO42 \$11000 Ample 1 8 \$400 guida2.Selfs OLMO42 \$11000 Ample 1 8 \$400 guida2.Selfs OLMO42 \$21200 Ample 1 30 \$3,500 guida2.Selfs OLMO42 \$21200 Ample 1 3 \$3,500 guida2.Selfs OLMO42 \$21200 Ample 1 8 \$3,500 guida2.Selfs OLMO42 \$21200 Ample 1 8 \$3,500 guida2.Selfs OLMO42 \$11000 Ample 1 8 \$3,500 guida2.Selfs OLMO42 \$11000 Ample 1 2 \$2,600 guida2.Selfs OLMO42 \$11000 Ample 1 2 \$2,600 guida2.Selfs OLMO42 \$11000 Ample 1 2 \$2,600 TAL Mesta and Cyanida	urface Soils	VOCs	OLMO4.2	\$110.00 /sa	imple	1	8	\$880
PentiotaryPCBs OLMO4.2 \$130.00 Atanyos 1 8 \$1,040 guidez Sola VCCs OLMO4.2 \$110.00 Anayos 1 8 \$530.00 guidez Sola VCCs OLMO4.2 \$110.00 Anayos 1 35 \$53.00 PestocherPCBs OLMO4.2 \$110.00 Anayos 1 3 \$53.00 und XMaid VCCs OLMO4.2 \$110.00 Anaros 1 3 \$53.00 und XMaid VCCs OLMO4.2 \$110.00 Anaros 1 3 \$53.00 und XMaid VCCs OLMO4.2 \$100.00 Anaros 1 2 \$50.00 und XMaid VCCs OLMO4.2 \$100.00 Anaros 1 2 \$50.00 und XMaid SVOCs OLMO4.2 \$100.00 Anaros 1 2 \$50.00 und XMaid SVOCs OLMO4.2 \$110.00 Anaros 1 2 \$50.00 VCCs		SVOCs	OLMO4.2	\$225.00 /sa	Imple	1	8	\$1,800
TAL Mathie and Cyunida OLXX042 \$11000 / Jampia 1 8 5880 Sardiada Edita SVOCe OLXX042 \$11000 / Jampia 1 36 \$51,000 SVOCe OLXX042 \$11000 / Jampia 1 36 \$54,000 Linux Matté OLXX042 \$11000 / Jampia 1 8 \$53,000 Trut Matté VOCe OLXX042 \$11000 / Jampia 1 8 \$53,000 Trut Matté VOCe OLXX042 \$11000 / Jampia 1 8 \$51,000 Trut Matté OLXX042 \$11000 / Jampia 1 8 \$51,000 anati Matté OLXX042 \$11000 / Jampia 1 2 \$52,000 anati Matté OLXX042 \$11000 / Jampia 1 2 \$52,000 anati Matté OLXX042 \$11000 / Jampia 1 2 \$50,000 anati Matté OLXX042 \$11000 / Jampia 2 \$50,000 \$50,000 \$50,000 \$50,000 \$50,000 \$50,000 \$50,00		Pesticides/PCBs	OLMO4.2	\$130.00 /sa	Imple	1	8	\$1,040
statutic Selfs VCCs OLMO42 \$110.00 /sample 1 36 35.800 SV0C6 OLMO42 \$230.00 /sample 1 36 55.800 TAL Metal and Cyanice OLMO42 \$130.00 /sample 1 8 558.00 Torold SV0C6 OLMO42 \$130.00 /sample 1 8 558.00 Torold SV0C6 OLMO42 \$130.00 /sample 1 8 558.00 Torold SV0C6 OLMO42 \$130.00 /sample 1 2 558.00 SV0C6 OLMO42 \$130.00 /sample 1 2 558.00 SV0C6 OLMO42 \$100.00 /sample 1 2 558.00 SV0C6 OLMO42 \$100.00 /sample 1 2 558.00 Told Metal Socies/PCB OLMO42 \$100.00 /sample 1 2 558.00 Told Metal Socies/PCB OLMO42 \$100.00 /sample 1 2 58.00 Told Metal Socies/PCB OLMO42 \$100.00 /sample 1 <td></td> <td>TAL Metals and Cyanide</td> <td>OLMO4.2</td> <td>\$110.00 /sa</td> <td>Imple</td> <td>1</td> <td>8</td> <td>\$880</td>		TAL Metals and Cyanide	OLMO4.2	\$110.00 /sa	Imple	1	8	\$880
SVOCa CMMA2 8225.00 /rangle t 56 B5.100 TAL Metrix and Cyunita CMMA2 \$110.00 /rangle 1 3 \$32.00 umix Mater VOCa CMMA2 \$110.00 /rangle 1 8 \$83.00 traund SVOCa CMMA2 \$100.00 /rangle 1 8 \$83.00 traund SVOCa CMMA2 \$100.00 /rangle 1 8 \$88.00 approximation CMMA2 \$100.00 /rangle 1 2 \$80.00 approximation EPA #15.1 \$35.00 /rangle 1 2	ubsurface Soils	VOCs	OLMO4.2	\$110.00 /sa	Imple	1	36	\$3,960
PetablicitarPCBs OLMO42 \$13.00 Ample 1 35 \$4.680 UnrX.Mate: VOCs OLMO42 \$110.00 Ample 1 8 8800 UnrX.Mate: VOCs OLMO42 \$100.00 Ample 1 8 9800 Invariable VOCs OLMO42 \$100.00 Ample 1 8 9800 Invariable VOCs OLMO42 \$100.00 Ample 1 8 9800 Anatt Mattint VOCs OLMO42 \$100.00 Ample 1 2 8200 Anatt Mattint VOCs OLMO42 \$110.00 Ample 1 2 8200 Anattinity EPA 310.1 \$15.00 Ample 1 2 \$100 Aniona (NOS SOL, Cl, Br, F) EPA 300.0 \$100.00 Ample 1 2 \$100 Total Dispond Solida EPA 40.01 \$100.00 Ample 1 2 \$200 Total Dispond Solida EPA 40.02		SVOCs	OLMO4.2	\$225.00 /sa	mple	1	36	\$8,100
TAL Metils and Cyanicle OLMC42 \$110.00 Asample 1 3 \$3530 round \$VOGs OLMC42 \$110.00 Asample 1 6 \$11000 Particides/PCBs OLMC42 \$110.00 Asample 1 2 \$8200 mail Matte VOCs OLMC42 \$110.00 Asample 1 2 \$8200 mping test \$VOCs OLMC42 \$110.00 Asample 1 2 \$8200 mping test \$VOCs OLMC42 \$110.00 Asample 1 2 \$8200 Asatariay CLB DLMC42 \$110.00 Asample 1 2 \$820 Asatariay CLB SAGC SAGC Asample 1 2 \$820 TAL Mestis and Cyanicle DLMC42 \$110.00 Asample 1 2 \$820 TAL Mestis and Cyanicle DLMC42 \$110.00 Asample 1 2 \$820 Tall bios/ver Gyanc DLMC		Pesticides/PCBs	OLMO4.2	\$130.00 /sa	mple	1	36	\$4,680
Unit Xigkity for old VOGa OLK042 \$10.00 Ample 1 8 6860 Periodicise#CGs OLK042 \$310.00 Ample 1 6 \$3960 TAL Metta and Quarde OLK042 \$310.00 Ample 1 2 \$320 And Mate VOGs OLK042 \$310.00 Ample 1 2 \$320 And Mate VOGs OLK042 \$310.00 Ample 1 2 \$320 TAL Metta and Gyande OLK042 \$310.00 Ample 1 2 \$320 TAL Metta and Gyande OLK042 \$310.00 Ample 1 2 \$320 Avians (NO3, GOL, OL Br, F) EPA 300.1 \$15.00 Ample 1 2 \$320 Tabl Metta Grande EPA 4021 \$16.00 Ample 1 2 \$320 Tabl Metta Grande EPA 4021 \$16.00 Ample 1 2 \$320 Tabl Metta Grande EPA 400.2 \$10.00 Ample		TAL Metals and Cyanide	OLMO4.2	\$110.00 /sa	mple	1	3	\$330
Nond SYGCa OLMO-2 SYGCo / Ammpie I B SyGco / Ammpie TAL Mails and Cyanida CLMO-2 SYL00 / Ammpie I B Stago mplng lest SYCCa CLMO-2 SYL00 / Ammpie I B Stago mplng lest SYCCa CLMO-2 SYL00 / Ammpie I 2 Stago mplng lest SYCCa CLMO-2 SYL00 / Ammpie I 2 Stago Alkalinity CLMO-2 SYL00 / Ammpie I 2 Stago Alkalinity EPA 310.1 SYL00 / Ammpie I 2 Stago Caltors (K, NG, CM, Fe, NG, BL PA 300.0 SYL00 / Ammpie I 2 Stago Total Disorder Option Carbon EPA 415.1 St5.00 / Ammpie I 2 Stago Total Disorder Option Carbon EPA 415.1 St5.00 / Ammpie I 2 St200 Total Disorder Option Carbon EPA 415.1 St5.00 / Ammpie I 2 St220 Total Disorder Option	iround Water	VOCs	OLMO4.2	\$110.00 /sa	ample	1	8	\$880
Periodes/PCBa OLMO4.2 \$100.0 Anamyle 1 8 \$960 Mard Market VOCa OLMO4.2 \$110.00 Anamyle 1 2 \$450 Mard Market VOCa OLMO4.2 \$100.00 Anamyle 1 2 \$450 Periodicse/PCBa OLMO4.2 \$100.00 Anamyle 1 2 \$450 Periodicse/PCBa OLMO4.2 \$100.00 Anamyle 1 2 \$450 Anamyle IA Market and Oyanida OLMO4.2 \$100.00 Anamyle 1 2 \$100 Anamyle IA Market and Oyanida IA 2 \$100 Sano Sano Sano 1 2 \$100 Sano Sa	st round	SVOCs	OLMO4.2	\$200.00 /sa	ample	1	8	\$1,600
TAL Matrix and Cynnide OLMO4.2 \$110.00 Asample 1 8 \$880 MADAL \$110.00 Asample 1 2 \$520 pring test \$VOCs OLMO4.2 \$200.00 Asample 1 2 \$420 PeatolderPOBs OLMO4.2 \$110.00 Asample 1 2 \$220 Allariny EPA 310.1 \$115.00 Asample 1 2 \$300 Allariny EPA 300.0 \$75.00 Asample 1 2 \$160 Cators (N, Ka, Cu, Mg, Fa, Mn, Ba) EPA 200.7 \$900.00 fample 1 2 \$300 Total Dapance Catton EPA 415.1 \$35.00 fample 1 2 \$300 Total Dapance Solids EPA 400.2 \$110.00 fample 1 2 \$320 Total Dapance Solids EPA 400.2 \$110.00 fample 1 2 \$320 Total Dapance Catton EPA 415.1 \$360.00 fample 1 2		Pesticides/PCBs	OLMO4.2	\$120.00 /sa	ample	1	8	\$960
Mark Mate pring fest VOCs OLMO4.2 \$110.00 Ammole 1 2 \$4500 Predictore/PGBs OLMO4.2 \$120.00 Ammole 1 2 \$220 Addinity EPA 310.1 \$15.50 fitamole 1 2 \$220 Addinity EPA 310.1 \$15.50 fitamole 1 2 \$120 Cations (NO3, SO4, Cl, Br, F) EPA 310.1 \$15.50 fitamole 1 2 \$120 Cations (NA, Ra, Cu, My, Fe, MB, B) EPA 415.1 \$35.00 hample 1 2 \$30 Total Cognitic Cathon EPA 415.1 \$35.00 hample 1 2 \$30 tets Sola and Debutis Total Superiet Solids EPA 160.2 \$110.00 /sample 1 2 \$22.50 VOCA OLMO4.2 \$110.00 /sample 1 2 \$22.50 VOCA OLMO4.2 \$110.00 /sample 1 2 \$22.50 VOCA OLMO4.2 \$110.00		TAL Metals and Cyanide	OLMO4.2	\$110.00 /sa	ample	1	8	\$880
pring test SVOCa OLMO4.2 \$200.00 Amengie 1 2 \$4600 Peaticide#PCBs OLMO4.2 \$110.00 Amengie 1 2 \$2500 Akatalwy EPA 310.1 \$150.00 Amengie 1 2 \$2500 Akatalwy EPA 300.0 \$75.00 Amengie 1 2 \$560 Calcers IK, Ace May Fe, Mn, Baj EPA 200.0 \$57.00 Amengie 1 2 \$560 Calcers IK, Ace May Fe, Mn, Baj EPA 415.1 \$35.00 Amengie 1 2 \$300 Total Disponde Solids EPA 415.1 \$45.00 Amengie 1 2 \$300 Total Disponde Solids EPA 100.2 \$16.00 Amengie 1 2 \$300 Total Disponde Solids EPA 100.2 \$110.00 Amengie 1 2 \$200 Solid and Datati Trip Blanks CLMO4.2 \$110.00 Amengie 1 2 \$220 VOC6 OLMO4.2 \$110.00 Amengie 1 2 \$220 VOC6 OLMO4.2 \$110.00 Amengie	around Water	VOCs	OLMO4.2	\$110.00 /sa	ample	1	2	\$220
Pesicios/PCBs OLMO4.2 \$10.00 /sample 1 2 \$220 TAL Media en Organida OLMO4.2 \$10.00 /sample 1 2 \$20 Anions (NO, SO, LO, B, F) EPA 30.0 \$75.00 /sample 1 2 \$15.00 Calons (K, Na, Ca, Mg, Fe, Mn, Ba) EPA 45.1 \$35.00 /sample 1 2 \$17.00 Dissolved Organic Carbon EPA 45.1 \$35.00 /sample 1 2 \$39.00 Total Dissolved Solids EPA 160.1 \$15.00 /sample 1 2 \$39.00 stee Sol and Dataria Trute ************************************	umping test	SVOCs	OLMO4.2	\$200.00 /sa	ample	1	2	\$400
TAL Meaks and Cyanola OLMOA 2 \$110.00 /stanije 1 2 \$220 Aklanija EPA 305.0 \$1500 /sample 1 2 \$150 Calara K, Na, Ca, Ma, Fe, Ma, Ba) EPA 405.0 \$375.00 /sample 1 2 \$150 Total Carbon EPA 415.1 \$350.00 /sample 1 2 \$30 Total Suspendes Golds EPA 415.1 \$55.00 /sample 1 2 \$30 Total Suspendes Golds EPA 4160.1 \$15.00 /sample 1 2 \$20 Attes Solared Edwin T \$75.00 /sample 1 2 \$20 Attes Solared Edwin T \$75.00 /sample 1 2 \$220 State Solared Edwin T \$70 \$75.00 /sample 1 2 \$220 State Solared Edwin T \$70 \$75.00 /sample 1 2 \$220 State Solared Edwin CUP \$110.00 /sample <td></td> <td>Pesticides/PCBs</td> <td>OLMO4.2</td> <td>\$120.00 /sa</td> <td>ample</td> <td>1</td> <td>2</td> <td>\$240</td>		Pesticides/PCBs	OLMO4.2	\$120.00 /sa	ample	1	2	\$240
Akaining EPA 310.1 \$15.00 famone 1 2 \$300 Anions (ND3, SO4, CB, IP) EPA 300.0 \$75.00 /// sample 1 2 \$150 Total Organic Carbon EPA 415.1 \$55.00 // sample 1 2 \$500 Total Disolved Solids EPA 415.1 \$55.00 // sample 1 2 \$500 Total Disolved Solids EPA 160.1 \$15.00 // sample 1 2 \$500 Stati Scal and Dubrig T T 7 7 2 \$200 Matrix Spike Tip Blanks OLMO4.2 \$110.00 // sample 1 2 \$220 Matrix Spike OLMO4.2 \$110.00 // sample 1 2 \$220 VOGs OLMO4.2 \$110.00 // sample 1 2 \$220 VOGs OLMO4.2 \$110.00 // sample 1 2 \$220 VOGs OLMO4.2 \$110.00 // sample 1 2		TAL Metals and Cyanide	OLMO4.2	\$110.00 /sa	ample	1	2	\$220
Aniors (NO3 SO4, OB, F) EPA 300.0 \$75.00 /sample 1 2 \$750 Cations (K, NB, Ca, MB, Fe, MB, Ba) EPA 415.1 \$550.00 /sample 1 2 \$700 Dissolver Organic Cathon EPA 415.1 \$550.00 /sample 1 2 \$700 Total Suppendes Solids EPA 160.1 \$515.00 /sample 1 2 \$700 Solar and Dating Total Suppendes Solids EPA 160.2 \$15.00 /sample 1 2 \$200 Solar and Dating Total Suppendes Solids EPA 160.2 \$110.00 /sample 1 2 \$220 State Solar and Dating Trip Blanks OLMO4.2 \$110.00 /sample 1 2 \$220 State Solar and Dating Matrix Spike OLMO4.2 \$110.00 /sample 1 2 \$220 State Solar and Organide OLMO4.2 \$110.00 /sample 1 2 \$220 State Solar and Organide OLMO4.2 \$110.00 /sample 1 <td></td> <td>Alkalinity</td> <td>EPA 310.1</td> <td>\$15.00 /sa</td> <td>ample</td> <td>1</td> <td>2</td> <td>\$30</td>		Alkalinity	EPA 310.1	\$15.00 /sa	ample	1	2	\$30
Galions (K. Na, Ca, Mg, Fe, Mn, Ba) EPA 400.7 \$500.0 /sample 1 2 \$180 Total Organic Carbon EPA 415.1 \$350.0 /sample 1 2 \$70 Total Dissolved Golde EPA 415.1 \$350.0 /sample 1 2 \$30 Total Dissolved Golds EPA 402.1 \$150.0 /sample 1 2 \$30 Matrix Solution EPA 402.2 \$150.0 /sample 1 2 \$30 Matrix Solution EPA 402.2 \$150.0 /sample 1 2 \$220 UCO_P Trip Blanks 0LMO4.2 \$110.00 /sample 1 2 \$220 SVOC6 0LMO4.2 \$110.00 /sample 1 2 \$220 Matrix Solution OLMO4.2 \$100.00 /sample 1 2 \$220 SVOC6 0LMO4.2 \$110.00 /sample 1 2 \$220 Matrix Solution OLMO4.2 \$110.00 /sample 1 2 \$220 VOC6 0LMO4.2 \$110.00 /sample 1 2 <		Anions (NO3, SO4, Cl, Br. F)	EPA 300.0	\$75.00 /sa	ample	1	2	\$150
Total Organic Carbon EPA 415.1 \$35.00 /sample 1 2 \$370 Dissolved Organic Carbon EPA 415.1 \$45.00 /sample 1 2 \$300 Total Dissolved Solids EPA 160.1 \$15.00 /kample 1 2 \$300 tate Scal and Datys EPA 160.2 \$15.00 /kample 1 2 \$200 tate Scal and Datys EPA 160.2 \$15.00 /kample 1 2 \$220 tate Scal and Datys EPA 160.2 \$110.00 /sample 1 2 \$220 tate Scal and Datys OLMO4.2 \$110.00 /sample 1 2 \$220 tate Scal and Datys OLMO4.2 \$110.00 /sample 1 2 \$220 aucdwater VOCs OLMO4.2 \$110.00 /sample 1 2 \$220 aucdwater VOCs OLMO4.2 \$110.00 /sample 1 2 \$220 words OLMO4.2 \$110.00		Cations (K, Na, Ca, Mg, Fe, Mn, Ba)	EPA 200.7	\$90.00 /sa	ample	1	2	\$180
Dissolved Organic Gathon Total Dissolved Solids EPA 15.1 S45.00 Jample 1 2 590 Intel Dissolved Solids EPA 160.1 S15.00 /kample 1 2 S30 Intel Solund Dates TOLP \$75.00 /kample 1 3 \$2.250 IdCO Sample Blacks Tip Blanks 0LMO4.2 \$110.00 /sample 1 2 \$220 VOCo S OLMO4.2 \$110.00 /sample 1 2 \$220 VoCoS OLMO4.2 \$225.00 /kample 1 2 \$220 VoCoS OLMO4.2 \$225.00 /kample 1 2 \$220 Matrix Spike OLMO4.2 \$110.00 /sample 1 2 \$220 Matrix Spike Diplicate VoCoS OLMO4.2 \$110.00 /sample 1 2 \$220 Matrix Spike Blank VoCoS OLMO4.2 \$110.00 /sample 1 2 \$220 Matrix Spike Blank VoCoS </td <td></td> <td>Total Organic Carbon</td> <td>EPA 415.1</td> <td>\$35.00 /sa</td> <td>ample</td> <td>1</td> <td>2</td> <td>\$70</td>		Total Organic Carbon	EPA 415.1	\$35.00 /sa	ample	1	2	\$70
Total Dissolved Solids EPA 180.1 S15.00 /sample 1 2 530 atter Soliand Debra Total Suspended Solids EPA 180.2 \$15.00 /sample 1 2 530 atter Soliand Debra Total Suspended Solids EPA 180.2 \$15.00 /sample 1 2 \$30 atter Soliand Debra Blanks OLMO4.2 \$110.00 /sample 1 2 \$220 atter Soliand Debra Trip Blanks OLMO4.2 \$110.00 /sample 1 2 \$220 atter Soliand Debra VOC6 OLMO4.2 \$110.00 /sample 1 2 \$220 atter Soliand Cyanolog OLMO4.2 \$110.00 /sample 1 2 \$220 Matrix Solke Duplicate VOC6 OLMO4.2 \$110.00 /sample 1 2 \$220 VOC6 OLMO4.2 \$110.00 /sample 1 2 \$220 \$220 Matrix Solke Duplicate VOC6 OLMO4.2 \$110.00 /sample 1 2 \$220 VOC6 OLMO4.2 \$110.00 /sample <td></td> <td>Dissolved Organic Carbon</td> <td>EPA 415.1</td> <td>\$45.00 /sa</td> <td>ample</td> <td>1</td> <td>2</td> <td>\$90</td>		Dissolved Organic Carbon	EPA 415.1	\$45.00 /sa	ample	1	2	\$90
Total Suppended Solids EPA 180.2 \$150.0 /sample 1 2 530 aste Sol and Datyns TOLP \$750.00 /sample 1 3 \$2,250 Atter Splee Blanks OLMO4.2 \$110.00 /sample 1 2 \$220 COC Sample Blanks OLMO4.2 \$110.00 /sample 1 2 \$220 SVOCs OLMO4.2 \$110.00 /sample 1 2 \$220 VOCs OLMO4.2 \$110.00 /sample 1 2 \$220 Matrix Spike Diplicate OLMO4.2 \$110.00 /sample 1 2 \$220 VOCs OLMO4.2 \$110.00 /sample 1 2 \$220 Matrix Spike Diplicate VOCs OLMO4.2 \$110.00 /sample 1 2 \$220 VOCs OLMO4.2 \$110.00 /sample 1 2 \$220 SVOCs OLMO4.2 \$110.00 /sample 1		Total Dissolved Solids	EPA 160 1	\$15.00 /sa	ample	1	2	\$30
state Soll and Datums Function		Total Suspended Solids	EPA 160 2	\$15.00 /sa	ample	1	2	\$30
TCLP \$750.00 /sample 1 3 \$2,250 VQC Samples Blanks DLMO4.2 \$110.00 /sample 1 2 \$220 Quidwater Matrix Spike UOCs OLMO4.2 \$110.00 /sample 1 2 \$220 SVCC6 OLMO4.2 \$210.00 /sample 1 2 \$220 SVCC6 OLMO4.2 \$210.00 /sample 1 2 \$220 Matrix Spike OLMO4.2 \$110.00 /sample 1 2 \$220 Matrix Spike Diplicate UOCs OLMO4.2 \$110.00 /sample 1 2 \$220 VOCs OLMO4.2 \$110.00 /sample 1 2 \$220 SVOCs OLMO4.2 \$110.00 /sample 1 2 \$220 Matrix Spike OLMO4.2 \$110.00 /sample 1 2 \$220 Matrix Spike OLMO4.2 \$110.00 /sample 1 2 \$220 Matrix Spike OLMO4.2 \$110.00 /sample 1 2 \$220 </td <td>Vaste Soil and Debris</td> <td></td> <td>Livitodi</td> <td></td> <td></td> <td></td> <td></td> <td></td>	Vaste Soil and Debris		Livitodi					
UQC Samples Data Data Data Data Data UQC Samples Trip Blanks Trip Blanks OLMO4.2 \$110.00 /sample 1 2 \$220 undtwater Matrix Spike VOGs OLMO4.2 \$225.00 /sample 1 2 \$220 VOGs OLMO4.2 \$225.00 /sample 1 2 \$220 Matrix Spike OLMO4.2 \$110.00 /sample 1 2 \$220 Matrix Spike Duplicate VOCs OLMO4.2 \$110.00 /sample 1 2 \$220 Matrix Spike Duplicate VOCs OLMO4.2 \$210.00 /sample 1 2 \$220 Matrix Spike Duplicate VOCs OLMO4.2 \$210.00 /sample 1 2 \$220 Matrix Spike Blank VOCs OLMO4.2 \$110.00 /sample 1 2 \$220 Matrix Spike Blank VOCs OLMO4.2 \$110.00 /sample 1 2 \$220 Matrix Spike VOCs OLMO4.2 \$110.00 /sample 1<		TCLP		\$750.00 /sa	amole	1	3	\$2 250
Lation Juga Trip Blanks OLMO4.2 \$110.00 /sample 1 2 \$220 curidwater Matrix Spike 2 \$220 SVOCs OLMO4.2 \$110.00 /sample 1 2 \$220 SVOCs OLMO4.2 \$226.00 /sample 1 2 \$220 Matrix Spike Duplicate 1 2 \$220 \$220 Matrix Spike Duplicate 1 2 \$220 VOCs OLMO4.2 \$110.00 /sample 1 2 \$220 VOCs OLMO4.2 \$110.00 /sample 1 2 \$220 VOCs OLMO4.2 \$110.00 /sample 1 2 \$220 Matrix Spike Blank 2 \$220 \$220 \$220 \$220 \$220 \$220 \$220 \$220 \$220 \$220 \$220 \$220 \$220 \$220 \$220 \$220 \$220 \$220		Blanke				_ <u> </u>		
Dunidwater Matrix Spike Classical Offore Density 1 2 Classical VOCs OLMO42 \$110.00 /sample 1 2 \$220 SVOCs OLMO42 \$225.00 /sample 1 2 \$240 Pesticides/PCBs OLMO42 \$110.00 /sample 1 2 \$220 Metrix Solke Duplicate VOCs OLMO42 \$110.00 /sample 1 2 \$220 Metrix Solke Duplicate VOCs OLMO42 \$110.00 /sample 1 2 \$220 SVOCs OLMO42 \$110.00 /sample 1 2 \$220 Metrix Solke Blank UOCs OLMO42 \$110.00 /sample 1 2 \$220 Matrix Solke Blank UOCs OLMO42 \$110.00 /sample 1 2 \$220 Metrix Solke Dank UOCs OLMO42 \$110.00 /sample 1 2 \$220 Metrix Solke Dank	27400 Oum <u>pics</u>			\$110.00 /sa	amole	1	2	\$220
Matrix Spike VCGs OLMO4.2 \$110.00 /sample 1 2 \$220 SVOCs OLMO4.2 \$110.00 /sample 1 2 \$220 Matrix Spike OLMO4.2 \$110.00 /sample 1 2 \$220 Matrix Spike Outinate OLMO4.2 \$110.00 /sample 1 2 \$220 Matrix Spike Outinate VOCs OLMO4.2 \$110.00 /sample 1 2 \$220 SVOCs OLMO4.2 \$110.00 /sample 1 2 \$220 SVOCs OLMO4.2 \$110.00 /sample 1 2 \$220 Matrix Spike Blank UVCs OLMO4.2 \$110.00 /sample 1 2 \$220 SVOCs OLMO4.2 \$130.00 /sample 1 2 \$220 Matrix Spike UVCs OLMO4.2 \$210.00 /sample 1 2 \$220 VOCs OLMO4.2 \$130.00 /sample 1<				¢			-	+==-
Normal VOCs OLMO42 \$\$10.00 /sample 1 2 \$\$220 SVOCs OLMO42 \$\$250.00 /sample 1 2 \$\$450 Pesticides/PCBs OLMO42 \$\$130.00 /sample 1 2 \$\$220 Matrix Sake Duplicate V V \$\$225.00 /sample 1 2 \$\$220 VOCs OLMO42 \$\$110.00 /sample 1 2 \$\$220 SVOCs OLMO42 \$\$110.00 /sample 1 2 \$\$220 Matrix Sake Duplicate V V \$\$225.00 /sample 1 2 \$\$220 Metais and Cyanide OLMO42 \$\$110.00 /sample 1 2 \$\$220 Matrix Spike Blank V VCG OLMO42 \$\$110.00 /sample 1 2 \$\$220 Matrix Spike Blank V VCGs OLMO42 \$\$110.00 /sample 1 2 \$\$220 Matrix Spike OLMO42 \$\$110.00 /sample 1 3 \$\$330 \$\$675 Pesticides/	Broundwater	Matrix Spike						
SVOCs OLMO4.2 Statupe 1 2 Statu Pesticides/PCBs OLMO4.2 \$130.00 /sample 1 2 \$2600 Metais and Oyanide OLMO4.2 \$110.00 /sample 1 2 \$2200 Matrix Solke Duplicate VOCs OLMO4.2 \$110.00 /sample 1 2 \$220 VOCs OLMO4.2 \$110.00 /sample 1 2 \$220 SVOCs OLMO4.2 \$130.00 /sample 1 2 \$220 Pesticides/PCBs OLMO4.2 \$130.00 /sample 1 2 \$220 Matrix Solke Blank UVCs OLMO4.2 \$110.00 /sample 1 2 \$220 SVOCs OLMO4.2 \$110.00 /sample 1 2 \$220 Matrix Solke Blank UVCs OLMO4.2 \$110.00 /sample 1 2 \$220 VOCs OLMO4.2 \$110.00 /sample 1 2 \$220 Matrix Solke OLMO4.2 \$110.00 /sample 1 3 \$3	around water	VOCs		\$110.00 /sz	amole	1	2	\$220
Dirocs OLMO4.2 Statupe 1 2 Statu Pesticides/PCBs OLMO4.2 \$130.00 /sample 1 2 \$220 Matrix Solke Duplicate		SVOCe		\$225.00 /cc	ampie		2	\$450
Heating and Cyanide OLMO4.2 \$100.00 /sample 1 2 \$2000 Matrix Spike Duplicate VOCs OLMO4.2 \$110.00 /sample 1 2 \$220 Matrix Spike Duplicate VOCs OLMO4.2 \$225.00 /sample 1 2 \$220 SVOCs OLMO4.2 \$225.00 /sample 1 2 \$220 Matrix Spike Blank UMO4.2 \$110.00 /sample 1 2 \$220 VOCs OLMO4.2 \$110.00 /sample 1 2 \$220 Matrix Spike Blank UMOS OLMO4.2 \$110.00 /sample 1 2 \$220 SVOCs OLMO4.2 \$110.00 /sample 1 2 \$220 SVOCs OLMO4.2 \$110.00 /sample 1 2 \$220 JU Sediment Matrix Spike UMOS OLMO4.2 \$110.00 /sample 1 3 \$330 SVOCs OLMO4.2 \$110.00 /sample 1 3 \$330 SVOCs OLMO4.2 \$110.00 /sample <td></td> <td>Basticides/PCBs</td> <td>OLMO4.2</td> <td>\$130.00 /st</td> <td>ample</td> <td>4</td> <td>2</td> <td>\$260</td>		Basticides/PCBs	OLMO4.2	\$130.00 /st	ample	4	2	\$260
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Matrix Spike Matrix Spike Sile Sile <thsile< th=""> Sile Sile<!--</td--><td>2-1 0-E</td><td>Metals and Uyanide</td><td>OLM04.2</td><td>\$110.00 /si</td><td>ampie</td><td>1</td><td>2</td><td>\$220</td></thsile<>	2-1 0-E	Metals and Uyanide	OLM04.2	\$110.00 /si	ampie	1	2	\$220
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Pesticides/PCBs OLMO4.2 \$130.00 /sample 1 3 \$390 Metals and Cyanide OLMO4.2 \$110.00 /sample 1 1 \$110 SUBTOTAL SUBCONTRACT MANAGEMENT FEE \$38,085 \$31,333 \$300 \$100 <td></td> <td>SVOCs</td> <td>OLMO4.2</td> <td>\$225.00 /s</td> <td>sample</td> <td>1</td> <td>З</td> <td>\$675</td>		SVOCs	OLMO4.2	\$225.00 /s	sample	1	З	\$675
Metals and Cyanide OLMO4.2 \$110.00 /sample 1 1 \$110 SUBTOTAL SUBCONTRACT MANAGEMENT FEE \$38,085 SUBCONTRACT MANAGEMENT FEE \$1,333		Pesticides/PCBs	OLMO4.2	\$130.00 /s	sample	1	з	\$390
SUBTOTAL \$38,085 SUBCONTRACT MANAGEMENT FEE \$1,333		Metals and Cyanide	OLMO4.2	\$110.00 /s	sample	1	1	\$110
SUBCONTRACT MANAGEMENT FEE \$1,333				SUBTOTAL	<u> </u>			\$38,085
				SUBCONTRACT MANAG	SEMENT FEE			\$1.333
				ΤΟΤΑΙ	····-=··· • • • • • • • • • • • • • • • • • •			\$30 418

SCHEDULE 2.11 (f)1 UNIT PRICE SUBCONTRACTS 93 Main Street Site Work Assignment Number D003600-40

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NAME	OF SUBCONTRACTO	SERVICES TO BE PERFORMED	SUBCONTRACT PRICE		MANAGEMENT FEE
Jamaic	a Blue Print Co., Inc.	Reproduction Services	\$8,831.55		\$0.00
<u>ltem</u>			Maximum Reimbursement <u>Rate</u>	Estimated No. of <u>Units</u>	Total Estimated <u>Costs</u>
Drawir	igs				
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
Specifi	cations	-			
Item 4	Bound Books, Each Consisting	g of 1000 Double-Sided Sheets	\$118.30	8	\$946.40
ltem 5	Bound Books, Each Consisting	g of 1000 Double-Sided Sheets	\$119.08	5	\$595.40
ltem 6	Bound Books, Each Consisting	g of 1000 Double-Sided Sheets	\$72.72	83	\$6,035.76

Total \$8,831.55

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SCHEDULE 2.11 (f)4 UNIT PRICE SUBCONTRACTS 93 Main Street Site Work Assignment Number D003600-40

	SERVI	CES TO BE	SUBCONT	RACT	MANAGEMENT	
NAME OF SUBCONTRACTOR	PER	FORMED	PRICI	Ξ	FEE	
Environmental Products and Services, Inc.	Water Dispo	osal	\$8,490.00		\$0.00	
	Ма	ximum				
	Reiml	oursement	Estimated	d No.	Total Estimated	
ltem		Rate	<u>of Unit</u>	t <u>s</u>	<u>Costs</u>	
1. Transportation and disposal of water (pumpir	ng test/develo	pment)				
a. Tank spot fee	\$950.00	/event	1 ev	ent	\$950.00	
b. Tank Rental (10,000 gallon tank)	\$40.00	/day	30 da	ys	\$1,200.00	
c. Transportation	\$1,100.00	/3,000 gal load	2 loa	ads	\$2,200.00	
d. Disposal	\$0.39	/gallon	6,000 ga	llons	\$2,340.00	
e. Tank Removal	\$950.00	/event	1 ev	ent	\$950.00	
f. Tank Cleaning	\$850.00	/event	1 ev	ent	\$850.00	
2. Transportation and disposal of drill cuttings (non-hazardou	ıs)				
a. Rolloff spot fee (30 cu.yd.)	\$125.00	/event	ev	ent	\$0.00	
b. Rolloff Rental	\$12.00	/day	da	ys	\$0.00	
c. Transportation	\$225.00	/load	loa	ad	\$0.00	
d. Disposal - hazardous soil F039 - Subtitle C	\$27.00	/ton	tor	ıs	\$0.00	
	SU	BTOTAL			\$8,490.00	
	SU	BCONTRACT MAN	AGEMENT FE	EE	\$0.00	
	то	ΓAL			\$8,490.00	

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93 Main St PM WP revised scope 211.xls/F4

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93 Main Street Site Work Assignment Number D003600-40 Task No./Name: All Tasks Complete: 0.00%

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SCHEDULE 2.11 (g) SUMMARY

Page 1 of 7 Date Prepared: Billing Period: Invoice No.:

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			MONTHLY COST CONTROL REPORT					
			SUMMAR	OF FISCAL INFO	ORMATION			
	A	B	C	D	E	F	G	н
	Costs	Paid	Total	Total Costs	Estimated	Total Work		Estimated
Expenditure	Claimed	То	Disallowed	Incurred To	Costs To	Assignment	Approved	Under/(Over)
Category	This Period	Date	To Date	Date (A+B+B1)	Completion	Price (A+B+E)	Budget	(G-F)
								
1. Direct Salary	0.00	0.00	0.00	0.00	0.00	0.00	\$77,352	0.00
Costs								
						0.00	0 100 110	
2. Indirect	0.00	0.00	0.00	0.00	0.00	0.00	\$122,448	0.00
0. Cubtotal Direct	0.00	0.00	0.00	0.00	0.00	0.00	\$199.801	0.00
3. Subiotal Direct	0.00	0.00	0.00	0.00	0.00	0.00	φ100,001	0.00
and Indirect Costs								
4. Travel	0.00	0.00	0.00	0.00	0.00	0.00	\$4,745	0.00
5. Other Non-	0.00	0.00	0.00	0.00	0.00	0.00	\$3,840	0.00
Salary Costs								
6. Subtotal Direct	0.00	0.00	0.00	0.00	0.00	0.00	\$8,585	0.00
Non-Salary Costs								
7. Subcontractors	0.00	0.00	0.00	0.00	0.00	0.00	\$135,925	0.00
						0.00	0044.040	0.00
8. Total Work	0.00	0.00	0.00	0.00	0.00	0.00	\$344,310	0.00
Assignment Cost								
	0.00	0.00	0.00	0.00	0.00	0.00	¢16 700	0.00
9. Fixed Fee	0.00	0.00	0.00	0.00	0.00	0.00	\$10,763	0.00
	0.00	0.00	0.00	0.00	0.00	0.00	\$361.004	0.00
10. Total Work	0.00	0.00	0.00	0.00	0.00	0.00	400 F,094	0.00
Assignment Flice	I		L		I	L		

Project Manager (Engineer)

Date

Engineer: Dvirka & Bartilucci

93 Main Street Site Work Assignment Number D003600-40

SCHEDULE 2.11(g) SUPPLEMENTAL MONTHLY COST CONTROL REPORT SUBCONTRACTS

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

			Subcontract	Total				
		Subcontract	Costs Approved	Subcontract				
		Costs claimed this	for Payment on	Costs to	Subcontract	Managemnt	Managemnt	Total
		Application	Previous	Date	Approved	Fee	Fee	Costs
Subcontract Name		Incl. Resubmittals	Application	(A plus B)	<u>Budget</u>	<u>Budget</u>	<u>Paid</u>	<u>To Date</u>
1 YEC, Inc. (MBE)	Survey new points	.000	0.00	0.00	\$2,394			
2 YEC, Inc. (MBE)	Property Survey	0.00	0.00	0.00	\$7,667			
3 To b e determined	Treatability study	0.00	0.00	0.00	\$45,000			
4 Ecologic (WBE)	Pumping Test ass	0.00	0.00	0.00	\$4,480			
5 Parratt-Wolff, Inc.	Borings and Well	0.00	0.00	0.00	\$18,980	\$664		
6 MITKEM, Inc. (MBE)	Sample Analysis	0.00	0.00	0.00	\$38,085	\$1,333		
7 Environmental Produc	ts Water Disposal	0.00	0.00	0.00	\$8,490	\$0		
8 Jamaica Blue Print Co	. Reproduction	<u>0.00</u>	<u>0.00</u>	<u>0.00</u> _	\$8,832	\$0		
Total					\$133,928	\$1,997		

93 Main St PM WP revised scope 211.xls . Ţ .

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93 Main Street Site

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Work Assignment Number D003600-40

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Task No./Name: 1/Work Plan Development

Complete: 0.00%

SCHED	ULE	2.1	1(g)	
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Page 3 of 7 Date Prepared: Billing Period: Invoice No.:

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		I	MONTHLY COST CONTROL REPORT					
			SUMMAR	OF FISCAL INFO	RMATION			
	A	В	С	D	E	F	G	H
	Costs	Paid	Total	Total Costs	Estimated	Total Work		Estimated
	Claimed	То	Disallowed	Incurred To	Costs To	Assignment	Approved	Under/(Over)
	This Period	Date	To Date	Date (A+B+B1)	Completion	Price (A+B+E)	Budget	(G-F)
1. Direct Salary	0.00	0.00	0.00	0.00	0.00	0.00	\$7,767	0.00
Costs								
2. Indirect	0.00	0.00	0.00	0.00	0.00	0.00	\$12,294	0.00
							\$22.001	0.00
3. Subtotal Direct	0.00	0.00	0.00	0.00	0.00	0.00	\$20,061	0.00
Salary Costs								
and Indirect Costs								
4 Travel	0.00	0.00	0.00	0.00	0.00	0.00	\$550	0.00
4. Travel	0.00	0.00	0.00	0.00	0.00	0.00	4000	0.00
5 Other Non-	0.00	0.00	0.00	0.00	0.00	0.00	\$180	0.00
Salary Costs	0.00	0.00	0.00	0.00	0.00	0.00	¢.00	
Salary Costs								
6 Subtotal Direct	0.00	0.00	0.00	0.00	0.00	0.00	\$730	0.00
Non-Salary Costs						1		
7. Subcontractors	0.00	0.00	0.00	0.00	0.00	0.00	\$0	0.00
8. Total Work	0.00	0.00	0.00	0.00	0.00	0.00	\$20,791	0.00
Assignment Cost						1		
9. Fixed Fee	0.00	0.00	0.00	0.00	0.00	0.00	\$1,685	0.00
10. Total Work	0.00	0.00	0.00	0.00	0.00	0.00	\$22,476	0.00
Assignment Price								

Project Manager (Engineer)

Date

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SCHEDULE 2.11(g)

93 Main Street Site Engineer: Dvirka & Bartilucci

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

Complete: 0.00%

				MONTHLY COST CONTROL REPORT SUMMARY OF FISCAL INFORMATION				
					F	F	G	<u>— — — — </u> — —
	A	D Daid	Total	Total Costs	Estimated	Total Work	<u> </u>	Estimated
	Costs	Palu T-	Disallowed	Incurred To	Costs To	Assignment	Approved	Under/(Over)
	Claimed	10	Disalloweu	Dete (A : B : B1)	Completion	Brico (A B F)	Budget	(G-F)
	This Period	Date	To Date	Dale (A+D+D1)	Completion		Dudget	(ur)
1. Direct Salary	0.00	0.00	0.00	0.00	0.00	0.00	\$15,986	0.00
Costs								
2 Indirect	0.00	0.00	0.00	0.00	0.00	0.00	\$25,305	0.00
Z. maneci	0.00	0.00						
				0.00	0.00	0.00	\$41.201	0.00
3. Subtotal Direct	0.00	0.00	0.00	0.00	0.00	0.00	\$41,231	0.00
Salary Costs								
and indirect Costs								
4. Travel	0.00	0.00	0.00	0.00	0.00	0.00	\$3,820	0.00
	0.00	0.00	0.00	0.00	0.00	0.00	\$2.980	0.00
5. Other Non- Salary Costs	0.00	0.00	0.00	0.00	0.00	0.00	+_,	
Calary Coold								
6. Subtotal Direct	0.00	0.00	0.00	0.00	0.00	0.00	\$6,800	0.00
Non-Salary Costs								
7 Subcontractors	0.00	0.00	0.00	0.00	0.00	0.00	\$82,093	0.00
7. Subcontractors	0.00	0.00	0.00					
8. Total Work	0.00	0.00	0.00	0.00	0.00	0.00	\$130,184	0.00
Assignment Cost								
0 Fined Fee	0.00	0.00	0.00	0.00	0.00	0.00	\$3,468	0.00
9. FIXED FEE	0.00	0.00	5.00	5.00	5.00		,	
10. Total Work	0.00	0.00	0.00	0.00	0.00	0.00	\$133,652	0.00
Assignment Price								
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Project Manager (Engineer)

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Date

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93 Main St PM WP revised scope 211.xls

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Page 4 of 7 Date Prepared: Billing Period: Invoice No.:

93 Main Street Site Engineer: Dvirka & Bartilucci Task No./Name: 3/Treatability Study Complete: 0.00%

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SCHEDULE 2.11(g)

Page 5 of 7 Date Prepared: Billing Period: Invoice No.:

1

			MONTHLY COST CONTROL REPORT					
			SUMMAR	OF FISCAL INFO				
	A	В	С	D	E	F	G	Н
	Costs	Paid	Total	Total Costs	Estimated	Total Work		Estimated
	Claimed	То	Disallowed	Incurred To	Costs To	Assignment	Approved	Under/(Over)
	This Period	Date	To Date	Date (A+B+B1)	Completion	Price (A+B+E)	Budget	(G-F)
1. Direct Salary	0.00	0.00	0.00	0.00	0.00	0.00	\$5,522	0.00
Costs								
2 Indiraat	0.00	0.00	0.00	0.00	0.00	0.00	Φ Ω 7 /1	0.00
z. marect	0.00	0.00	0.00	0.00	0.00	0.00	\$0,741	0.00
3. Subtotal Direct	0.00	0.00	0.00	0.00	0.00	0.00	\$14,263	0.00
Salary Costs								
and Indirect Costs								
4. Travel	0.00	0.00	0.00	0.00	0.00	0.00	\$0	0.00
							A	
5. Other Non-	0.00	0.00	0.00	0.00	0.00	0.00	\$0	0.00
Salary Costs								
6 Subtotal Direct	0.00	0.00	0.00	0.00	0.00	0.00	\$0	0.00
Non-Salary Costs	0.00	0.00	0.00	0.00	0.00	0.00	ΨΟ	0.00
7. Subcontractors	0.00	0.00	0.00	0.00	0.00	0.00	\$45,000	0.00
8. Total Work	0.00	0.00	0.00	0.00	0.00	0.00	\$59,263	0.00
Assignment Cost								
9. Fixed Fee	0.00	0.00	0.00	0.00	0.00	0.00	\$1,198	0.00
	0.00	0.00	0.00	0.00	0.00	0.00	* ~~ ~~ ~	0.00
10. Total Work Assignment Price	0.00	0.00	0.00	0.00	0.00	0.00	\$60,461 (0.00

Project Manager (Engineer)

Date

93 Main Street Site

Engineer: Dvirka & Bartilucci

Task No./Name: 4/Plans and Specifications

Complete: 0.00%

SCHEDUI	$F \ge 11(a)$
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Page 6 of 7 Date Prepared: Billing Period: Invoice No.:

			MONTHLY COST CONTROL REPORT]		
			SUMMAR	Y OF FISCAL INFO	ORMATION			
	AB		С	D	E	F	G	Н
	Costs	Paid	Total	Total Costs	Estimated	Total Work	}	Estimated
	Claimed	То	Disallowed	Incurred To	Costs To	Assignment	Approved	Under/(Over)
	This Period	Date	To Date	Date (A+B+B1)	Completion	Price (A+B+E)	Budget	(G-F)
1. Direct Salary Costs	0.00	0.00	0.00	0.00	0.00	0.00	\$41,620	0.00
2. Indirect	0.00	0.00	0.00	0.00	0.00	0.00	\$65,885	0.00
3. Subtotal Direct Salary Costs and Indirect Costs	0.00	0.00	0.00	0.00	0.00	0.00	\$107,505	0.00
4. Travel	0.00	0.00	0.00	0.00	0.00	0.00	\$375	0.00
5. Other Non- Salary Costs	0.00	0.00	0.00	0.00	0.00	0.00	\$680	0.00
6. Subtotal Direct Non-Salary Costs	0.00	0.00	0.00	0.00	0.00	0.00	\$1,055	0.00
7. Subcontractors	0.00	0.00	0.00	0.00	0.00	0.00	\$8,832	0.00
8. Total Work Assignment Cost	0.00	0.00	0.00	0.00	0.00	0.00	\$117,392	0.00
9. Fixed Fee	0.00	0.00	0.00	0.00	0.00	0.00	\$9,030	0.00
10. Total Work Assignment Price	0.00	0.00	0.00	0.00	0.00	0.00	\$126,422	0.00

Project Manager (Engineer)

Date

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93 Main Street Site

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Engineer: Dvirka & Bartilucci

Task No./Name: 5/Pre-Award Services

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Complete: 0.00%

SCHEDULE 2.11(g)

MONTHLY COST CONTROL REPORT

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

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			SUMMARY OF FISCAL INFORMATION					
	A	В	C	D	E	F	G	Н
	Costs	Paid	Total	Total Costs	Estimated	Total Work		Estimated
	Claimed	То	Disallowed	Incurred To	Costs To	Assignment	Approved	Under/(Over)
	This Period	Date	To Date	Date (A+B+B1)	Completion	Price (A+B+E)	Budget	(G-F)
				·				
1. Direct Salary	0.00	0.00	0.00	0.00	0.00	0.00	\$6,458	0.00
Costs								
2. Indirect	0.00	0.00	0.00	0.00	0.00	0.00	\$10,223	0.00
						0.00	.	0.00
3. Subtotal Direct	0.00	0.00	0.00	0.00	0.00	0.00	\$16,681	0.00
Salary Costs								
and Indirect Costs								
	0.00	0.00	0.00	0.00	0.00	0.00	\$0	0.00
4. Havei	0.00	0.00	0.00	0.00	0.00	0.00	֥	
5 Other Non-	0.00	0.00	0.00	0.00	0.00	0.00	\$0	0.00
Salary Costs	0.00							
C								
6. Subtotal Direct	0.00	0.00	0.00	0.00	0.00	0.00	\$0	0.00
Non-Salary Costs								
-								
7. Subcontractors	0.00	0.00	0.00	0.00	0.00	0.00	\$0	0.00
8. Total Work	0.00	0.00	0.00	0.00	0.00	0.00	\$16,681	0.00
Assignment Cost								
9. Fixed Fee	0.00	0.00	0.00	0.00	0.00	0.00	\$1,401	0.00
				_			A 10 5 5 5	
10. Total Work	0.00	0.00	0.00	0.00	0.00	0.00	\$18,082	0.00
Assignment Price								

Project Manager (Engineer)

Date

Scedule 2.11 (h)

93 Main Street Site

Work Assignment Number D003600-40

Date Prepared: Billing Period Invoice No.

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

										TOTAL NUMBER
										OF DIRECT
NSPE Labor	IX	VIII	VII	VI	V	IV	Ш	1&11	ADMIN/	LABOR HOURS
Classification	EXP/EST	SUPPORT	EXP/EST							
Task 1	0/ 10	0/ 0	0/ 14	0/ 70	0/ 86	0/ 0	0/ 0	0/ 10	0/ 10	0/ 190
Task 2	0/ 4	0/ 0	0/ 16	0/ 92	0/ 238	0/ 0	0/ 64	0/ 22	0/ 22	0/ 436
Task 3	0/ 0	0/ 0	0/4	0/ 64	0/ 24	0/ 0	0/ 40	0/ 24	0/ 24	0/ 156
Task 4	0/ 12	0/ 0	0/ 164	0/ 260	0/ 22	0/ 0	0/ 608	0/ 84	0/ 84	0/ 1150
Task 5	0/ 6	0/ 0	0/ 0	0/ 80	0/ 26	0/ 0	0/ 40	0/ 16	0/ 16	0/ 168
Total Hours	0/ 32	0/ 0	0/ 198	0/ 566	0/ 396	0/ 0	0/ 752	0/ 156	0/ 156	0/ 2100

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MBE/WBE UTILIZATION PLAN SUMMARY 93 Main Street Site Work Assignment Number D003600-40

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Areas to be Subcontracted	Subcontractor Name	MBE/WBE	Total Subcontract <u>Value</u>	% MBE/WBE <u>Utilization</u>
Survey new points	YEC, Inc. (MBE)	MBE	\$2,394	0.7%
Property Survey	YEC, Inc. (MBE)	MBE	\$7,667	2.1%
Sample Analysis	MITKEM, Inc. (MBE)	MBE	\$38,085	10.5%
Pumping Test Assistance	Ecologic (WBE)	WBE	\$4,480	1.2%
Reproduction	Jamaica Blue Print Co. (WBE)	WBE	\$8,832	2.4%
Total MBE Utilization	MBE Subcontract Value Total Contract Value	=	<u>\$48,146</u> \$316,094	* *
Total WBE Utilization	<u>WBE Subcontract Value</u> Total Contract Value	=	<u>\$13,312</u> \$316,094	* 4.2%

* - Total contract value excludes \$45,000 reserved for treatability study subcontractor that has yet to be determined.

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