WORK PLAN
REMEDIAL INVESTIGATION/FEASIBILITY STUDY
PRIDE SOLVENTS & CHEMICAL COMPANY
(Site No.:1-52-025)
West Babylon, New York

Prepared for

New York State Department of Environmental Conservation
Investigation and Design Engineering Services
Standby Contract No. D004437
Work Assignment No. D004437-30

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Section 1
Introduction

This Work Plan for Pride Solvents & Chemical Company (herein referred to as the "Site") located 78-88 Lamar Avenue, in West Babylon, Suffolk County, New York was prepared by Camp Dresser and McKee Inc. (CDM) for the New York State Department of Environmental Conservation (NYSDEC) under the Engineering Services for Investigation and Design, Standby Contract No. D004437. Background and site information used in the development of this Work Plan was furnished by NYSDEC. The work plan was developed in accordance with the "Standby Contract Work Assignment, Remedial Investigation/Feasibility Study, Site No. 1-52-025 issued May 27, 2008."

1.1 Purpose and Objectives

The objective of this work assignment (WA) is to perform a Remedial Investigation (RI)/Feasibility Study (FS) for the Site. The RI will focus on characterizing the horizontal and vertical extent of chlorinated solvents in the upper glacial aquifer and determining the potential for Site-related contamination in the Magothy aquifer. Field tasks for this investigation are:

- Perform twenty three (23) groundwater screening locations along five transects via direct push methods
- Install 7 monitoring wells
- Redevelop 9 existing wells
- Collect 1 round of groundwater samples from 7 new wells and 9 existing wells

1.2 Site Description and Background

1.2.1 Site Location

The Pride Solvents and Chemical Company is located at 78 and 88 Lamar Street in West Babylon, Suffolk County, New York (Site) (Figure 1). The Site is within an industrial park known as the West Babylon Industrial Area and also as the Pinelawn Industrial Area. To the north, south, east, and west of the Site are various other commercial and manufacturing facilities. About 500 feet west of the Site is the Babylon Town Landfill.

1.2.2 Operational History

The Site operated as a chemical and solvent distribution and reclamation facility which was regulated as a hazardous waste treatment, storage, and disposal (TSD) facility under the Resource Conservation and Recovery Act (RCRA). Over the years of operation, the facility underwent extensive modifications, reportedly in accordance with construction plans approved by the Suffolk County Department of Health Services, to ensure compliance with Article XII of the Suffolk County Sanitary Code (Tyree, 1993).

The facility was equipped to receive and store waste solvents, then reclaim the material by a filtration and distillation process. The operation at 78 Lamar Street included storage and reclamation of chlorinated and fluorinated solvents by distillation. The primary use of the building was for drum storage with a small portion relegated to the distillation process and office space. Reportedly, Pride Solvents received waste chlorinated solvents and Freon(s) in 55-gallon drums. Portions of the wastes received were stored indoors within an epoxy-coated, bermed spill containment area constructed in the storage area.

Full 55-gallon drums were also reportedly stored outside exposed to the elements (not under a cover) in the north and middle yards. Indentations of 55-gallon drums in asphalt paving were previously observed in the north and middle yards. Reportedly, operations at the 88 Lamar Street facility were limited to bulk storage, drum packaging, and distribution of non-flammable and combustible organic solvents. Behind 88 Lamar Street (west) is a bermed, covered drum storage area with an epoxy-coated concrete floor.

Prior to January 1991, the north yard of 88 Lamar Street contained 16 underground storage tanks (USTs). Twelve of the USTs were removed by Tyree Brothers Environmental Services, Inc (Tyree) during December 1990 (Tyree, 1993). None of the 12 USTs removed were reported to be leaking. The remaining four USTs were filled with concrete and left in place. Despite the reported good condition of the USTs, about 50 yards of soil were removed and disposed of off-Site during the tank removal. This action suggests potential soil impacts and that the USTs or appurtenances (lines) leaked. No UST tightness testing data were available for review.

Several investigations have been conducted at the site. Historical sample locations are presented on Figure 2.

1.3 Environmental Setting

The Site is approximately 1.38 acres and contains two buildings. Paved parking, loading and unloading and storage areas are present to the north of the 88 Lamar Street building, south of the 78 Lamar Street Building and between both buildings. The Site is generally flat with an average elevation of approximately 60 feet above mean sea level (amsl). The entire property is developed with buildings, asphalt or concrete with the exception of grassy areas in front of each building, and the grassy area between the covered drum storage area behind 88 Lamar Street and 78 Lamar Street. There are two septic systems on the Site, one for each building. The septic system for 78 Lamar Street is located beneath the parking lot south of 78 Lamar Street. The septic system for 88 Lamar Street is located beneath the grass area between the building and Lamar Street. Located in the paved areas on the Site are 14 drywells for stormwater collection, two of which are connected to ancillary leaching pools.

The West Babylon/Pinelawn Industrial Area, in which Pride Solvents is located, is a high density industrial area, encompassing one-half square mile between Patton Avenue and Edison Avenue to the north and south, respectively and Wellwood

Avenue and Little East Neck Road to the west and east, respectively (Figure 1). Two cemeteries border the industrial park to the north, and cemetery property borders the Site to the south.

The topography of the facility and surrounding area is generally flat with the exception of the nearby Babylon Landfill. Average on-Site elevation is approximately 60 feet amsl. Slopes on the Site are less than three percent. Due to development, the majority of the area surrounding the Site is paved, and surface runoff is to drywells (storm drains). The nearest downgradient surface water body is Santapoque Creek located approximately 1.7 miles southeast of the Site.

1.3.1 Geology

The Pride Solvent facility is located on a glacial outwash plain. The outwash plain was created by the advance and recession of the early Wisconsinin-age glacier responsible for the formation of the Ronkonkoma Moraine to the north. Below the Site are deposits of coarse quartz sand and some gravel, approximately 90 feet thick, which are referred to as the Upper Glacial Aquifer. Beneath the Upper Glacial deposits at the Site is a clay unit presumed to be the Gardiners Clay (Clay). The depth to the Clay below ground surface (bgs) ranges from 83 to 92-feet in the industrial area. Additionally, the Clay was not found in the northern area of the Pride Solvents Site despite a clear contact between the Magothy's gray-white fine sand and the Upper Glacial's medium to coarse Sand, gravel, and cobbles.

The Clay was likely deposited prior to the advance of the Wisconsinin Ice sheet in a low-energy environment. With the advance of the Wisconsinin ice sheet came a drop in sea level, exposing the Clay to the atmosphere and thereby subjecting the Clay to erosional forces from wind, waves, and glaciers in the form of high-pressure melt-water streams and contact with the ice front itself. Contact with the ice can result in "ice shoving" or folding and distortion of the Clay. Ice shoving is documented on the north shore of Long Island and on Gardiners Island, the type locality for the Gardiners Clay (USGS, 1983).

Generally, the southern portion of Long Island is comprised of unconsolidated deposits that from land surface, downward, include glacial deposits of Pleistocene age (Upper Glacial); the Sangamon Age Gardiner's Clay; the Matawan Group Magothy, comprised of undifferentiated Cretaceous age deposits; and the Lloyd sand and clay members of the Raritan Formation, of late Cretaceous age. In this investigation, the two uppermost formations (Upper Glacial and Gardiners Clay) are of primary interest because the Upper Glacial Formation lies directly below ground surface (bgs) and directly above the Clay, which overlies the Magothy Formation (Magothy).

Both the Upper Glacial and Magothy are principal aquifers on Long Island. The Magothy is the principal source of water for municipal wells, and most private wells (residential) are in the Upper Glacial aquifer. The unconsolidated deposits rest unconformably on crystalline bedrock, consisting of Precambrian schist and gneiss, which is considered to be the base of the groundwater aquifer on Long Island. The

geologic history of this region exceeds 575 million years. However, long periods of nondeposition and/or periods of large-scale erosion are responsible for limiting the geologic record to the older Precambrian bedrock and younger Upper Cretaceous and Pleistocene sands, gravels and clays, which are believed to have been deposited during the last 125 million years.

1.3.2 Hydrogeology

Historical reports indicated that groundwater was encountered at depths ranging from 10 to 20-feet bgs. During the 2000 RI and 2002 FRI conducted by the NYSDEC, groundwater was encountered at approximately 17 to 19 feet bgs. Groundwater data from on-site wells describe a gradient and flow direction similar to regional data (Kimmel and Braids, 1980). The approximate reported flow direction is south southeast with a gradient of 0.0017 (Tyree, 1993). A previous study in the industrial area, conducted by Geraghty and Miller (1991), indicated a slight downward vertical gradient in the area with primary flow moving laterally through the saturated zone of the Upper Glacial aquifer. Horizontal groundwater velocity across the region was reported at 0.9 feet per day, based upon average hydraulic conductivity of 290 feet/ day (Geraghty and Miller, 1991).

Section 2
Scope of Work

2.1 Task 1 - Site Visit and Work Plan Development

A site visit was conducted on July 2, 2008. During this visit, the scope of work was revised and potential investigation locations were selected with NYSDEC. The information obtained during the site visit was incorporated into the Work Plan.

This task includes the following items:

- Site visit and scoping meeting
- Test direct push depth capability for groundwater screening activities
- Prepare a draft Work Plan letter (submitted July 10, 2008)
- Project costing and preparation of 2.11 costing sheets
- Subcontracting for data validation, analytical laboratory, drilling services, Geoprobe® services, survey services, and investigation derived waste (IDW) removal
- Prepare a site-specific Health and Safety Plan (HASP)
- Prepare a site-specific Community Air Monitoring Plan (CAMP)
- Prepare a draft Work Plan
- Prepare a final Work Plan
- Ongoing project management

This Work Plan references procedures detailed in the CDM Generic Quality Assurance Project Plan (QAPP) dated July 2007, which has been provided to NYSDEC for Contract Number D-004437-30. The Generic QAPP presents methods that will be used to collect field data including project samples, and focuses on the analytical methods and quality assurance/quality control (QA/QC) procedures that will be used to analyze project samples, ensure the data are of known and acceptable quality, and manage the resultant data.

This Work Plan also includes a site-specific Health HASP presented in Appendix A. The HASP describes the site-specific health and safety procedures to be followed during field activities.

2.2 Task 2 - Existing Data Tabulation and Evaluation

CDM will review existing data previously collected at the Site and nearby sites and review the geologic and hydrogeologic literature for the Site and the region. CDM

will review information from the ERM Remedial Investigation Report, the 2005 TechLaw report, information from the former Diamond Roller site at 45 Kean Street, and geologic information from the Fairfield Republic Aviation site, which is approximately one mile west of the Pride Solvents Site.

Relevant boring logs and the data relevant to the data gap analysis will be entered into a Site database. CDM will enter up to 50 shallow boring logs in the Site database.

CDM will produce a Data Analysis Technical Memorandum, in letter form, which will summarize the regional and Site geology and hydrogeology, evaluate the existing geological and hydrogeological data, identify gaps in the Site conceptual model, and propose a data gap investigation.

CDM will produce up to 8 figures that will be included in the Technical Memorandum: previous soil sampling locations (excluding septic system and drywell sampling locations), existing monitoring wells and previous groundwater screening location points, regional geology, a cross section location map, geologic cross sections, a potentiometric surface map, a Site conceptual model, proposed screening locations, and proposed monitoring well locations.

CDM assumes that the Site history, Site description and summary of previous investigations will come directly from the ERM RI Report.

2.3 Task 3 - Citizen Participation

This task includes the following items:

- Attending and providing necessary support for a public information meeting. CDM assumes one person will attend one public information meeting. Support may include providing slides, tables or oversized versions of drawings presented in the Remedial Investigation Report
- Preparation of fact sheets
- Assisting with the recording and response to significant comments

These tasks will be carried out as per the Citizen Participation in New York's Hazardous Waste Site Remediation Program Guidebook

2.4 Task 4 - Mobilization and Demobilization

Mobilization will include ordering, receiving, and staging field equipment and marking all field work locations with stakes or flags and/or marking paint. Demobilization will include the complete restoration of any damage caused by Site access, and/or Site sampling; and oversight of the IDW subcontractor.

Drilling mud and drill cuttings will be contained in 55-gallon drums or a roll-off and purge water will be contained in a 21,000 gallon frac tank. CDM assumes that

NYSDEC will be responsible for finding a location to stage the drums and the 21,000 tank. Upon completion of the field program, CDM will sample the drums, roll-offs and the contents of the frac tank, and the results will be sent to NYSDEC. NYSDEC will determine if the wastes are hazardous or non-hazardous and will obtain an EPA waste ID number if the material must be disposed of off-Site. NYSDEC will issue a a Hazardous Waste Determination Letter for IDW, and then an IDW Subcontractor will remove drums or roll-offs of contaminated soil from the Site, as necessary.

In summary, mobilization and demobilization activities will include the following:

- Ordering, receiving and staging equipment (groundwater screening and monitoring well installation)
- Location mark out
- Collecting IDW samples (assume 9 composite samples from rolloffs and 1 composite sample from the tank)
- Oversight of IDW subcontractor removing roll-offs and purge water
- Oversight of the survey subcontractor for locating the monitoring wells and groundwater screening locations.
- Demobilize equipment

2.5 Task 5 - Remedial Investigation

The primary purpose of the Remedial Investigation (RI) is to delineate the vertical and horizontal extent of the groundwater plume in the upper Glacial Aquifer. The secondary objective is to determine if the plume is present below the Gardner's Clay. The supplemental investigation will include the following activities:

- Lithologic sampling and groundwater screening consisting of 23 locations along 5 transects oriented perpendicular to groundwater flow (and Lamar Street)
- Installation and development of 7 new monitoring wells, 3 will be collocated with existing wells screened above the clay
- Redevelopment of 9 existing wells scheduled for sampling
- Sampling of 7 new and 9 existing monitoring wells for VOCs and MNA parameters
- Community Air Monitoring

2.5.1 Lithologic Sampling and Groundwater Screening

This task includes groundwater screening sampling. Five transects will be located perpendicular to the plume. The first transect will be located upgradient of the source area, with the remaining four transects progressing downgradient towards Edison Avenue. **Figure 3** shows the layout of transects.

Lithologic sampling and groundwater screening will be accomplished using a direct push rig. Macro-core soil samples will be collected continuously at each location from 20 feet bgs to the Clay layer (assumed to be at 90 feet bgs). The CDM field scientist will log the soils for recovery, moisture content, lithologic descriptions, PID readings, and visual and olfactory observations. Should the presence of NAPL be suspected, the field scientist will screen the soils with hydrophobic dye and a ultraviolet (UV) light. Soils testing positive for NAPL via field-screening techniques will be collected and submitted to the off-site laboratory for VOC analysis.

Groundwater screening samples will be collected immediately above the Clay and at the intervals with the highest photoionization detector (PID) readings in the lithologic samples. If no PID readings are detected above background concentrations, the remaining two samples will be collected at the interval immediately below the water table and half way between the water table and the top of Clay. The groundwater samples will be collected via dedicated Teflon®-lined tubing. The detailed groundwater sampling procedure is provided in Section 3.6 of the Generic QAPP.

Upon completion of the sampling, the sample tubing will be removed. The groundwater screening locations will be backfilled with bentonite and marked with a stake/flag which shall be labeled with the proper sample identification and shall be illustrated on the Site map so that it can be located at a later date.

The ground water samples will be analyzed by a New York State Department of Health-(NYSDOH) approved ELAP certified lab for VOCS by EPA Method OLM04.3. Samples will be sent to an off-Site laboratory for 24-hour turn-around-time (TAT) VOC analysis.

CDM assumes that all access agreements will be arranged by NYSDEC. CDM will contact the property owners and schedule the sampling events.

2.5.2 Monitoring well installation

Following the groundwater screening survey, seven permanent monitoring wells will be installed. For budgeting purposes, it is assumed that three of the wells will be installed to 120 feet bgs, below the Gardner's Clay, in clusters with existing wells. These wells will be double-cased, with four-inch carbon steel casing set at least five feet into the Clay layer. The remaining four wells will be installed to 90 feet bgs and screened above the Gardner's Clay. Figure 4 shows the proposed monitoring well locations.

For budgetary purposes, it is assumed that the monitoring wells will be constructed of two-inch diameter Schedule 40 PVC machine-slot screen and Schedule 40 PVC casing for groundwater sampling and monitoring purposes. If gross contamination (evidence of non-aqueous phase liquid (NAPL)) is found, it may be necessary to construct one or more monitoring wells of stainless steel. Drilling and sampling will be conducted in accordance with the Generic QAPP, Section 3.14 through 3.16.

At the two Magothy wells (labeled as SM for "Shallow Magothy"), split spoon soil samples will be collected continuously from the top of the clay to the total depth of the well to characterize stratigraphy and screen the deeper soils for evidence of VOCs in the field. Split spoon sampling beneath the water table may require the use of drilling mud inside the augers to prevent running sands. If drilling mud is used, it will be flushed out of the augers with water prior to setting the well. The CDM geologist will record the characteristics of each split spoon sample, including lithology, moisture and evidence of contamination (PID headspace readings).

Final well depths and screen settings will be based upon lithology, PID headspace readings, available groundwater profiling data and other pertinent factors. The wells will be developed after installation and will be allowed to stabilize for at least two weeks prior to sampling.

Two PIDs and one particulate monitor with data logging capability will be present and active at the Site at all times during the drilling activities to satisfy the requirements of the NYSDOH generic Community Air Monitoring Plan (CAMP).

2.5.3 Redevelopment of existing wells

The existing monitoring wells were installed in 1991 and 2000. CDM will redevelop the nine exiting monitoring wells that will be sampled during this RI. The wells are: ERM-MW-5D, ERW-MW-6D, ERM-MW-7D, ERM-MW-1S, ERM-MW-1D, ERM-MW-3S, ERM-MW-3D, ERM-MW-4S and ERM-MW-4D. Well development will be conducted in general accordance with the Generic QAPP, Section 3.16.

2.5.4 Groundwater sampling

CDM will conduct one round of groundwater sampling at the newly installed monitoring wells and nine existing wells (ERM-MW-5D, ERW-MW-6D, ERM-MW-7D, ERM-MW-1S, ERM-MW-1D, ERM-MW-3S, ERM-MW-3D, ERM-MW-4S and ERM-MW-4D), for a total of 16 wells. The wells will be sampled for VOCs by method OLC03.2 and monitored natural attenuation (MNA) parameters, including nitrate/nitrite, ferrous iron, sulfate, chloride, alkalinity, total organic carbon, and methane, ethane, ethene (MEE). **Table 1** lists the sample methods and QA/QC requirements. The wells will be sampled via the EPA Low Flow sampling protocol. Water quality parameters will be recorded during purging.

Groundwater sampling will be conducted in general accordance with Generic QAPP, Section 3.17.

2.5.5 Investigative Derived Waste

Soil cuttings, drilling mud, and purge water from each sampling location will be containerized in drums, roll-offs, tanks, or other appropriate vessels and disposed of off-site if they cannot be released to the ground surface. IDW may be released to the ground surface if the following conditions are met: 1) the area is non-residential; 2) liquids can percolate into the ground and 3) field indicators (visual, olfactory, PID readings) do not indicate the material is contaminated.

It is assumed that approximately 40 cubic yards (3 roll-offs) of non-hazardous soil and non-hazardous drilling mud will require off-Site disposal. Well development and purge water is estimated at 16,000 gallons. IDW containers will be stored on-site at a location determined by NYSDEC until it is characterized and can be removed by a licensed waste hauler.

2.5.6 Decontamination Procedures

Non-dedicated equipment and tools used to collect samples for chemical analysis will be decontaminated prior to and between collection of each sample using an Alconox® wash and potable water rinse prior to reuse. Additional cleaning of the equipment with steam may be needed under some circumstances. Decontamination fluids will either be contained or discharged to the ground surface, using the same criteria set forth in Section 2.5.5. Decontamination fluids will be disposed of off-site by a licensed transportation and disposal services firm.

2.6 Task 6 – Remedial Investigation Report

2.6.1 Field Documentation Procedures

Field notebooks will be used during all on-site work. A dedicated field notebook will be maintained by the field technician overseeing the Site activities. In addition to the notebook, any and all original sampling forms, and purge forms used during the field activities, will be submitted to the NYSDEC as part of the final report. Field and sampling procedures, including installation of the sample boreholes, existing monitoring wells, etc., will be photo-documented.

2.6.2 Sample Identification

Each sample collected will be designated by an alphanumeric code that will identify the type of sampling and the specific sample designation (identifier). Each sample shall begin with the NYSDEC Site Number for the Pride Solvent and Chemical site (152025). The following terminology shall be used for the samples collected during this investigation:

Groundwater Screening:	152025-GWS-(Location)-(Interval), e.g. sample collected from 20-24 feet bgs at groundwater screening point GWS-01 would be 152025-GWS-01-20-24
Groundwater:	152025-Monitoring Well ID-GW-(Date)

Field Blanks: 152025-FB-(Date)

Trip Blanks: 152025-TB-(Date)

2.6.3 Remedial Investigation Report

This task includes the effort to reduce, tabulate, and evaluate the data collected during the field activities, create lithologic logs monitoring wells and groundwater screening locations, develop report graphics and write and assemble the RI Report.

A total of four copies of a draft RI report will be submitted by CDM that documents the work conducted and presents the results of the sample analysis for review and comment by NYSDEC and NYSDOH. CDM shall revise the draft RI report and print the requested number of copies based on receipt of the comment letter. One copy of the final RI report; text, tables, maps, photos, etc., will be submitted as a single .pdf file. All electronic files will be submitted to NYSDEC on a compact disc. The site investigation data will be submitted in the most recent version of the NYSDEC Electronic Data Deliverable (EDD) with the final report submission. Currently, this is the USEPA Region 2 EDD dated December 2003.

2.6.4 Laboratory Analysis and Validation

All samples will be analyzed by a NYSDOH approved ELAP certified laboratory. **Table 1** shows a summary of samples to be collected and analytical methods, and QA/QC sample requirements. A NYSDEC ASP Category B data deliverable will be provided for these analyses.

All samples run for laboratory analysis will be validated in accordance with NYSDEC Data Usability Summary Report (DUSR) guidance by a party that is independent of the laboratory that performed the analyses and CDM. A usability analysis will be conducted by a qualified data validator and a DUSR will be submitted to the NYSDEC.

2.7 Task 7 – Feasibility Study Report

Under this task, alternatives will be developed and screened qualitatively against three criteria: effectiveness, implementability, and relative cost. A range of alternatives will be developed that consider both standard and innovative remedial technologies for treatment of groundwater contaminated with chlorinated solvents.

CDM currently anticipates that the following alternatives will be evaluated:

- No Action
- Groundwater treatment with air stripping, granular activated carbon, chemical/ultraviolet oxidation, permeable reactive barriers (PRB), and/or anaerobic biological reactors
- Monitored natural attenuation

A total of four copies of a draft Feasibility Study (FS) Report documenting the work conducted and presenting the results of the sample analysis will be submitted by CDM to NYSDEC and NYSDOH for review and comments. CDM shall revise the draft FS Report and print the requested number of copies based on receipt of the comment letter. One copy of the final FS Report; text, tables, maps, photos, etc., will be submitted as a single .pdf file. All electronic files will be submitted to NYSDEC on a compact disc. The site investigation data will be submitted in the most recent version of the NYSDEC Electronic Data Deliverable (EDD) with the final report submission. Currently this is the USEPA Region 2 EDD dated December 2003.

Section 3
Project Schedule

The following tabulation provides the proposed project schedule and key milestones for this work assignment. As currently planned, field work will be initiated within two weeks of written receipt of final work plan approval. Field activity duration for the soil vapor intrusion investigation activities is estimated to be one week assuming no delays are experienced due to inclement weather, Site access problems, or for other unforeseen reason

The scheduled submittal dates for deliverables are based on standard laboratory turnaround times of four weeks, and turnaround for data validation of three weeks.

Project Milestone	Date
Issue Work Assignment (WA)	May 27,2008
Work Assignment Acceptance	June 4, 2008
Submit Task 1 Draft Work Plan Letter	July 10, 2008
Submit Task 1 Draft Work Plan	August 8, 2008
DEC Comment on Draft Work Plan	August 22, 2008
Submit Task 1 (Final Work Plan) Deliverable	August 29, 2008
Notice to Proceed (NTP)	September 5, 2008
Task 2 - Submit Data Evaluation Memorandum Deliverable	October 10, 2008
Task 3 Citizen Participation	Summer 2009
Task 4 – Field Mobilization	September 8, 2008
Commence Task 5 – Field Investigation	September 22, 2008
Complete Task 5 Groundwater Screening	November 26, 2008
Commence Task 5 – Well Installation and groundwater sampling	March 30, 2009
Complete Task 5	May 29, 2008
Task 6 – Draft Remedial Investigation Report	August 21, 2009
DEC/DOH Comment on Draft RI Report	September 18, 2009
Task 6 – Final RI Report	October 2, 2009
Task 7 – Draft Feasibility Study Report	October 30, 2009
DEC/DOH Comment on Draft FS Report	November 25, 2009
Task 7 – Final FS Report	December 9, 2009

Section 4
Budget Estimates

Estimated Budget and Level of Effort (LOE) Summary
Pride Solvents & Chemical Company
West Babylon, New York
Site No. 1-52-025

Task Items	Description/Cost	Dollars
1	Work Plan Development	$25,132
2	Existing Data Tabulation and Evaluation	$23,037
3	Citizen Participation	$4,855
4	Mobilization and Demobilization	$8,761
5	Site Investigation	$464,049
6	Remedial Investigation Report	$51,200
7	Feasibility Study Report	$35,817
	Total Estimate Budget (Tasks 1 - 7)	**$612,851**

Appendix B presents the detailed costs by task and subtask on the NYSDEC schedule 2.11.

General Assumptions:

- Field work will be performed in Fall 2008 and Spring 2009.
- All costs are based upon the scope and schedule provided in this Work Plan. Costs associated with project delays or expedited schedules beyond CDM's control are not assumed.
- CDM will provide one hard copy by mail and one electronic file (pdf) by e-mail for each report submitted to the NYSDEC, unless otherwise specified above.

Task 1 - Work Plan Development:

- Only one round of comments received concurrently is anticipated on draft deliverables. The review comments will be consolidated by NYSDEC. It is assumed that comments are minimal in nature and no re-evaluation is required.
- Project management, subcontractor procurement, scheduling, budgeting, administrative activities are included in this task.

- The Work Plan should include the description of the major tasks and sub-tasks to be performed including pertinent information to conduct field activities, potential areas of concern, analytical methods and sampling methods, a staffing plan identifying key and technical staff, identification of areas of subcontracting, work assignment budget, and a Site specific Health and Safety Plan.

- A Site-specific Quality Assurance Project Plan (QAPP) will not be required for this project. All of the relevant procedures for the project are detailed in CDM's July 2007 Generic QAPP

Task 2 – Existing Data Tabulation and Evaluation:

- CDM assumes that all documents to be reviewed have already been supplied to CDM.

- CDM assumes that one draft of a letter report will be submitted. Any comments to the letter report will be addresses in the Remedial Investigation Report.

- CDM assumes that one hard copy and one electronic copy of the report will be submitted.

Task 3 – Citizen Participation:

- CDM assumes that the PM will attend the public meeting.

- CDM assumes that any materials necessary for the public meeting will be taken directly from the Data Tabulation and Evaluation Memorandum, Remedial Investigation Report or Feasibility Study and that no new documents or figures will be generated.

Task 4 – Mobilization and Demobilization:

- CDM assumes there will be one mobilization and one demobilization event.

- It is assumed that surveying of all points will require one day of CDM oversight.

- It is assumed that IDW removal will require one day of CDM oversight.

Task 5 – Site Investigation:

- A notice to proceed must be received at least one week prior to mobilization.

- NYSDEC will provide access to all sampling and drilling locations.

- Drilling, direct push, analytical, surveying and validation services will be subcontracted.

- CDM will provide oversight during field activities, collect samples and maintain sample chain-of-custody.
- CDM assumes that NYSDEC will arrange for a staging area where the decontamination pad, IDW and materials can be located.
- No schedule delays are assumed due to inclement weather or equipment failure.
- Delays due to the Site owner or public are not assumed.
- One direct push rig mobilization is expected
- One drilling rig mobilization is expected
- It is assumed that no subsurface soil samples will be collected for laboratory analysis during the investigation.
- CDM assumes that all material and equipment staged in access areas will be removed to allow easy access to all sampling locations by the drilling equipment.

Task 6 – Remedial Investigation Report:

- Only conference calls are anticipated to be necessary for this phase. Meetings are not assumed to be required for this task.
- Only one round of comments received concurrently is anticipated on draft deliverables. The review comments will be consolidated by NYSDEC. It is assumed that comments are minimal in nature and no re-evaluation is required. It is assumed that all comments can be addressed within 12 hours.

Task 7 – Feasibility Study Report:

- Only conference calls are anticipated to be necessary for this phase. Meetings are not assumed to be required for this task.
- Only one round of comments received concurrently is anticipated on draft deliverables. The review comments will be consolidated by NYSDEC. It is assumed that comments are minimal in nature and no re-evaluation is required. It is assumed that all comments can be addressed within 12 hours.

Section 5
Staffing Plan

This project management organization for this project is intended to provide a clear delineation of functional responsibility and authority.

5.1 Program Manager – Michael A. Memoli, P.E., DEE

The primary responsibilities for program management activities rest with the Program Manager (PRM). The Program Manager, Mr. Memoli, will have ultimate contract responsibility for the project, including responsibility for the technical content of all engineering work. Mr. Memoli will direct, review, and approve all project deliverables, schedule staff and resources, resolve scheduling conflicts and identify and solve potential program problems. He will be directly accountable to NYSDEC's Division of Hazardous Waste Remediation for program execution. He has authority to assign staff, negotiate and execute contracts and amendments, as well as execute subcontracts. The PRM will communicate directly with CDM's Project Manager.

5.2 Project Manager – Seth Kellogg, P.G.

The Project Manager, Ms. Seth Kellogg, will have the overall responsibility for the technical and financial aspects of this project. She will assign technical staff, maintain control of the project budget and schedule, prepare monthly progress reports, review and approve project invoices, evaluate the technical quality of the project deliverables as well as the adherence to QA/QC procedures, and manage subcontractors. She will serve as CDM's point of contact for this project.

5.3 Program Quality Assurance Manager – Jeniffer M. Oxford

The Program Quality Assurance Officer, Ms. Jeniffer Oxford, will monitor QC activities of program management and technical staff, as well as identify and report needs of corrective action to the Program Manager. She will also conduct an internal review of all project deliverables prepared by CDM staff and sign off on the final investigation reports.

5.4 Health and Safety Officer – Christopher S. Marlowe, C.I.H., Q.E.P

The Program Health and Safety Officer, Mr. Chris Marlowe, will review and make recommendations to the Subcontractors on health and safety plans for compliance with OSHA requirements. He will develop a Health and Safety plan for CDM and NYSDEC employees, handle over-sight activities, evaluate the performance of health and safety officers and maintain required health and safety records. He will report directly to the Program Manager.

5.5 Project Geologist – Cristina Ramacciotti

Ms. Cristina Ramacciotti will be the project geologist. Her role will include providing direction on drilling, groundwater profiling, and related activities to the field manager, as well as interpreting field characterization data and reporting. She is directly accountable to the Project Manager. Ms. Ramacciotti brings extensive experience in the collection and interpretation of hydrogeologic data, as she has worked extensively in the Atlantic Coastal Plain environment and glacial sediments.

5.6 Field Manager/Health and Safety Site Supervisor/Coordinator – Frank Robinson

The Field Manager, Mr. Frank Robinson, will be responsible for overseeing and coordinating field activities. This will include, but is not limited to the following: overseeing sampling activities, coordinating drilling and Geoprobe® work, coordinating work with other subcontractors and monitoring health and safety conditions in accordance with the approved Health and Safety Plan. He is directly accountable to the Project Manager.

As the Health and Safety Site Supervisor/Coordinator, Mr. Robinson will be responsible for ensuring that the Health and Safety Plan is implemented during field activities and that a copy of the site-specific Health and Safety Plan is maintained at the Site at all times. He will also be responsible for upgrading or downgrading the level of personnel protection based on actual conditions at the time of the investigation. The Coordinator must also present an overview of the Health and Safety Plan to field personnel prior to their initiating any field activities; he will be responsible for insuring that field personnel sign off on this plan. The Coordinator will contact the Program Health and Safety Officer, if any questions or issues arise during the field activities that he cannot answer.

Section 6
Subcontracting

Appendix C presents a comparison of quotes from various subcontractors. CDM proposes to engage subcontractors to provide the following services for this work assignment:

6.1 Direct Push Drilling – Zebra Environmental.

At this time, CDM is proposing to use Zebra Environmental to perform the direct push work. They are located in Lynbrook, New York.

6.2 Analytical Laboratory – Mitkem

At this time, CDM is proposing to use Mitkem as the analytical laboratory subcontractor. They are located in Warwick, Rhode Island.

6.3 Monitoring Well Installation – Land, Air, Water Environmental

At this time, CDM is proposing to use Land, Air, Water Environmental as the drilling subcontractor. They are located in Center Moriches, New York

6.4 Data Validation – Nancy Potak

At this time, CDM is proposing to use Nancy Potak (WBE) as the data validation subcontractor. She is located in Greensboro, Vermont.

6.5 M/WBE Reporting – Kenneth Shider

At this time, CDM is proposing to utilize Ken Shider (M/WBE consultant) to prepare the quarterly M/WBE reports that are required by NYSDEC.

6.6 IDW Disposal – SeaCoast Environmental Services, Inc.

At this time, CDM is proposing to utilize SeaCoast Environmental Services, Inc. as the IDW disposal subcontractor, should one be needed. They are located at 716 Newman Springs Rd, PMB 292 Lincroft, New Jersey 07738

6.7 Topographic Survey – Om P. Popli, P.E., L.S., P.C.

At this time, CDM is proposing to utilize Om P. Popli, P.E., L.S., P.C., Inc. as the topographic survey subcontractor, should one be needed. They are located in Penfield, New York.

Section 7
MBE/WBE Utilization Plan

To meet the requirements of the MBE/WBE program, CDM has prepared the following utilization plan:

Total Dollar Value of the work assignment	**$612,851**
MBE Percentage Goal	15%
MBE Dollar Value Goal	$91,928
WBE Percentage Goal	5%
WBE Dollar Value Goal	$30,643
Combined MBE/WBE Percentage Goal	20%
Combined MBE/WBE Dollar Value Goal	$122,570

Minority and woman-owned firms are expected to participate as follows:

Services to be Provided	Description of Services	Subcontractor Name and Contact Information	Proposed Subcontract Price
WBE – Drilling Services	Monitoring Well Installation	Land, Air, Water Environmental	$85,560
WBE - Data Validation	Data Validation	Nancy Potak	$2,540
M/WBE Quarterly Reports	M/WBE Quarterly Reports	Kenneth Shider (518) 269-2207	$1,800
MBE – Topographic Survey	Sampling point and monitoring well location	Om P. Popli, P.E., L.S., P.C.	$8,215
		TOTAL	$98,115

Acronyms

amsl	above mean sea level
ASP	Analytical Services Protocol
bgs	below ground surface
CAMP	Community Air Monitoring Plan
CPP	Citizen Participation Plan
CDM	Camp, Dresser, and McKee, Inc.
DCE	dichloroethene
DNAPL	dense non-aqueous phase liquid
DUSR	data usability summary report
EDD	electronic data deliverable
ELAP	Environmental Laboratory Accreditation Program
EPA	United States Environmental Protection Agency
ERM	Environmental Resources Management
ft/day	feet per day
FS	feasibility study
GPS	global positioning system
HASP	health and safety plan
IDW	investigation derived waste
MEE	methane, ethane, ethene
mg/L	micrograms per liter
mL/g	milliliter per gram
MNA	monitored natural attenuation
NYSDEC	New York State Department of Environmental Conservation
NYSDOH	New York State Department of Health
PCE	tetrachloroethylene
PID	photoionization detector
ppb	parts per billion
PRB	permeable reactive barrier
PVC	polyvinyl chloride
QA/QC	quality control/quality assurance
QAPP	quality assurance project plan
RCRA	Resource Conservation and Recovery Act
RI	remedial investigation
SVOCs	semi-volatile organic compounds
TCE	trichloroethylene
TAT	turn-around time
TSD	treatment, storage, and disposal
µ/L	micrograms per liter
USGS	United States Geological Survey
UST	underground storage tank
UV	ultraviolet
VOCs	volatile organic compounds
WA	Work Assignment

Figures

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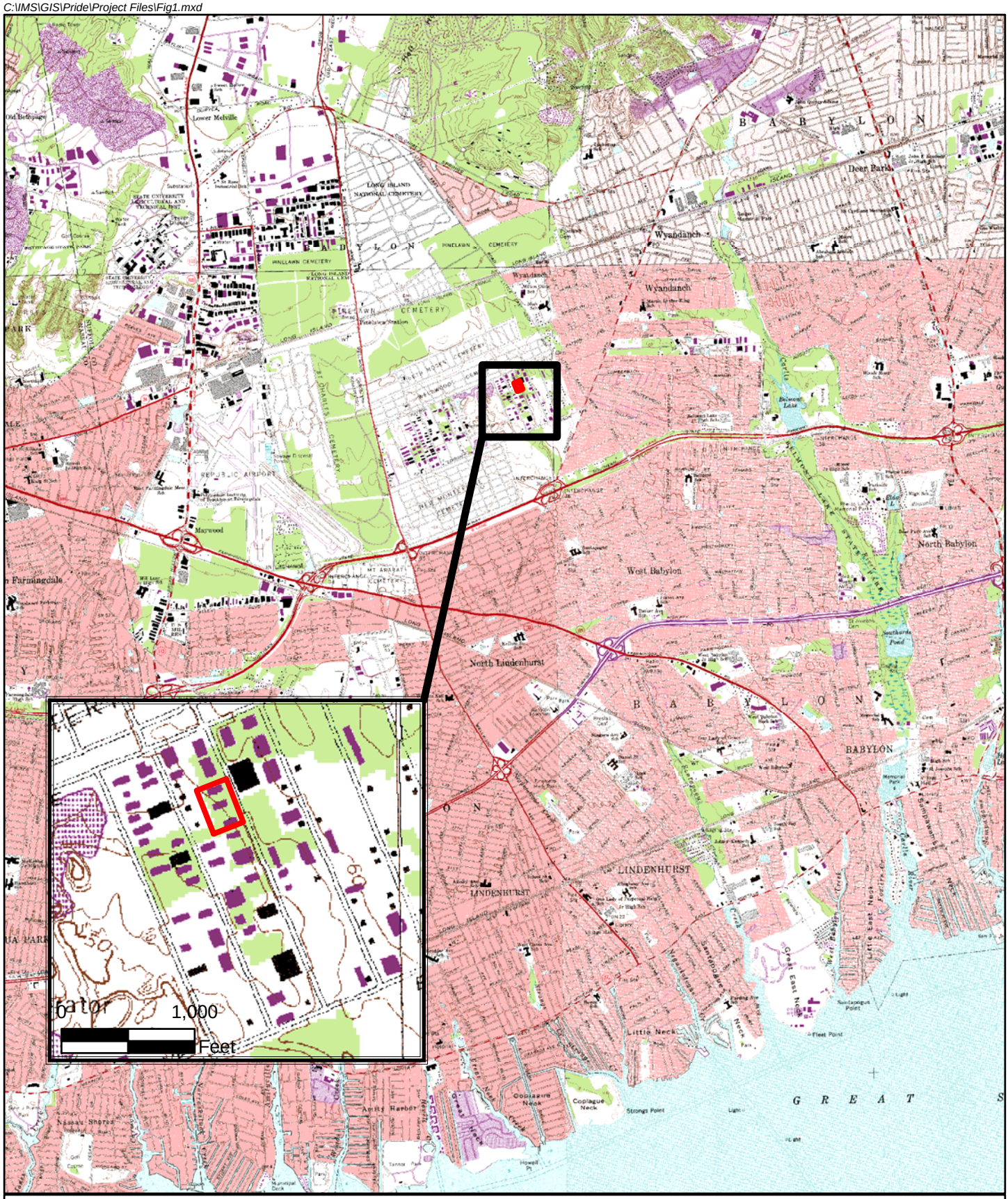

Legend

Pride Solvents and Chemical Company Site

0 N 5,000 Feet

Figure 1
Site Location
Remedial Investigation / Feasability Study
Pride Solvents and Chemical Company
West Babylon, New York

CDM

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Legend

- Pride Solvents and Chemical Company
- Buildings
- 5-ft Topographic Contour
- 1-ft Topographic Contour

Note: Topographic elevation data is in Feet above Mean Sea Level (datum is NAVD88)

Historic sample Locations

- Groundwater Profile and On-site Boring
- Monitoring Well
- Mobile Laboratory Groundwater Screening
- MIP/Boring Location

0 75 150 300 Feet

Figure 2
Historic Sampling Locations
Remedial Investigation / Feasability Study
Pride Solvents and Chemical Company
West Babylon, New York

CDM

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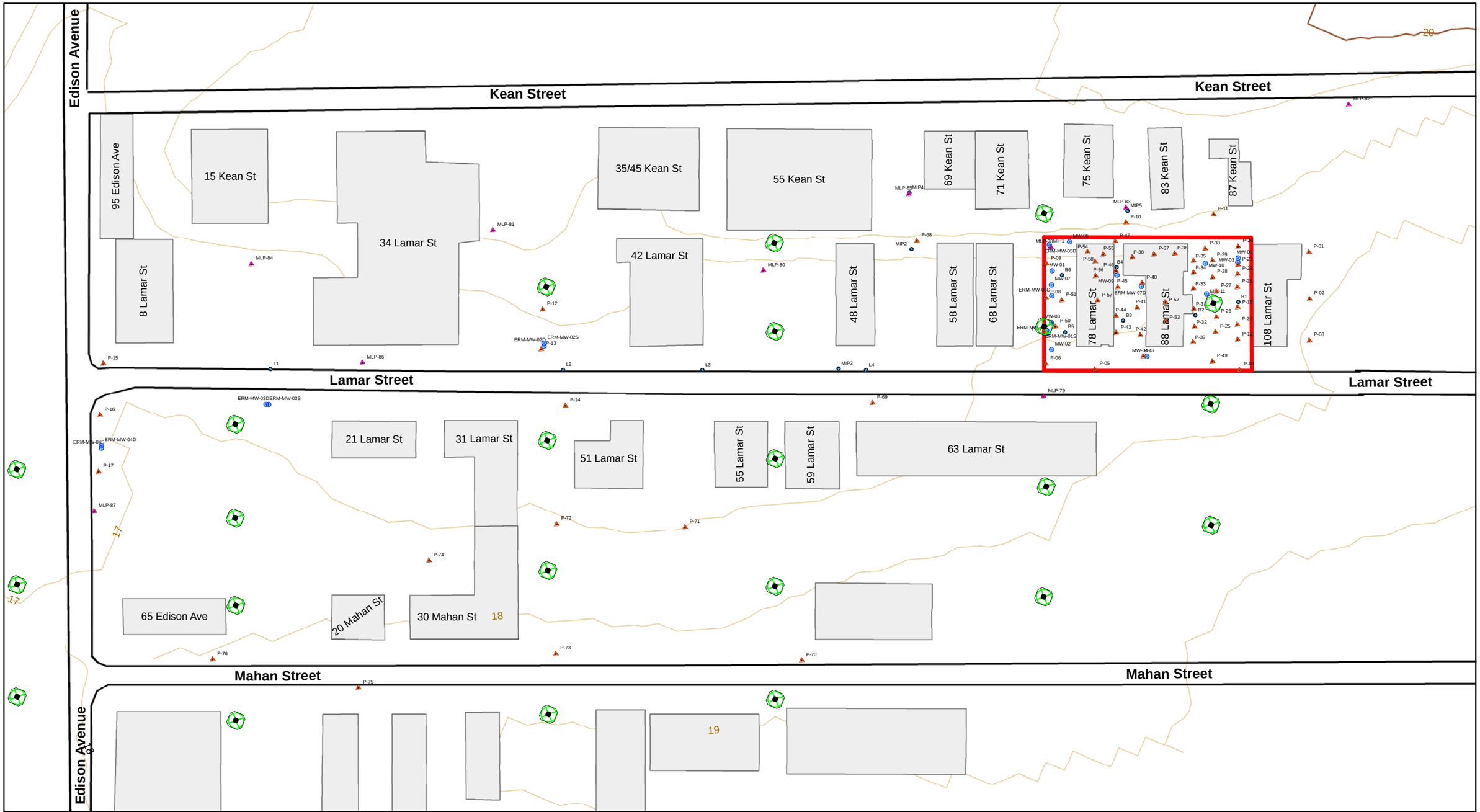

Legend

- Proposed Groundwater Screening Locations
- Pride Solvents and Chemical Company
- Buildings
- 5-ft Topographic Contour
- 1-ft Topographic Contour

Note: Topographic elevation data is in Feet above Mean Sea Level (datum is NAVD88)

Historic sample Locations

- Groundwater Profile and On-site Boring
- Monitoring Well
- Mobile Laboratory Groundwater Screening
- MIP/Boring Location

0 75 150 300 Feet

Figure 3
Proposed Groundwater Screening Locations
Remedial Investigation / Feasability Study
Pride Solvents and Chemical Company
West Babylon, New York

CDM

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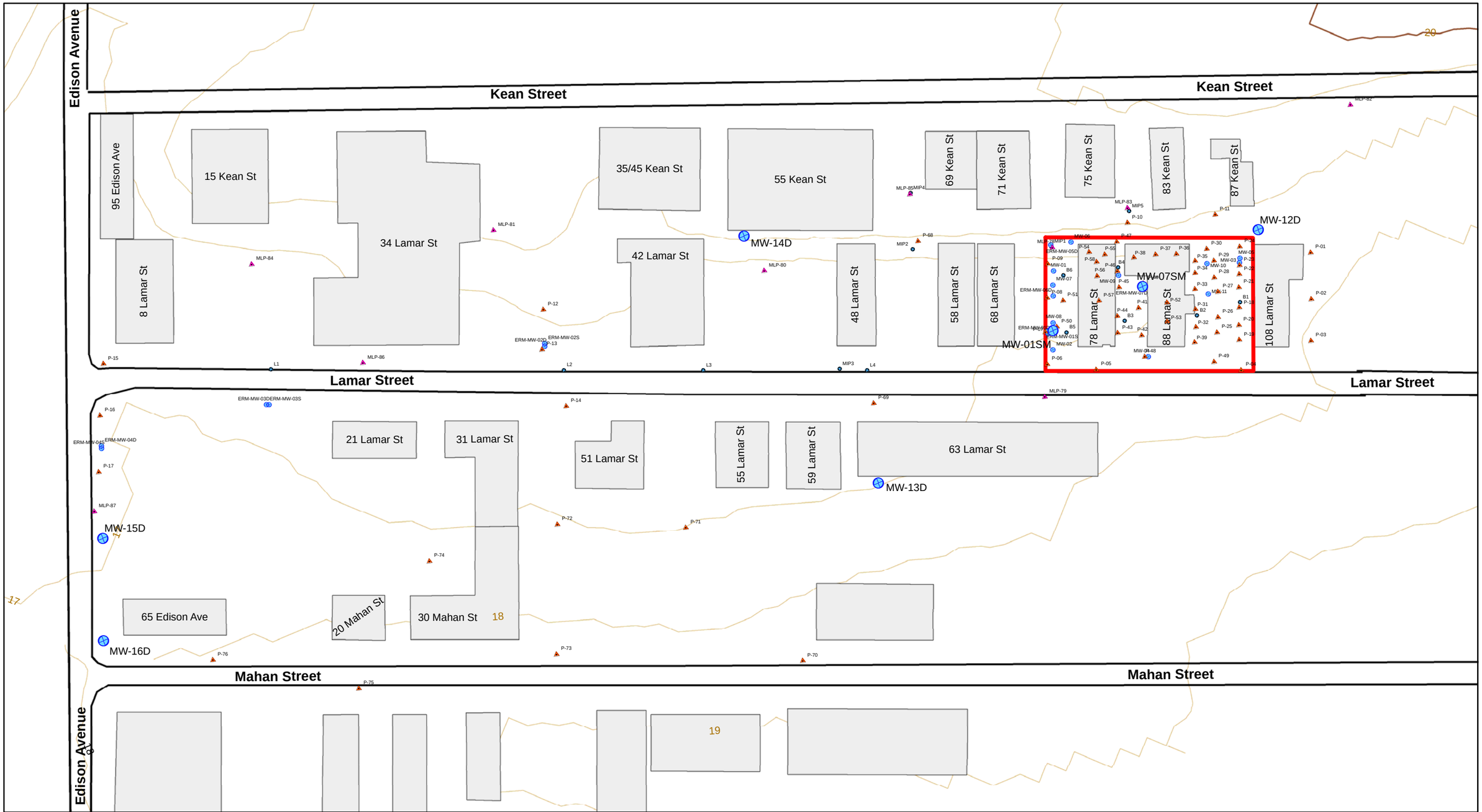


Legend

- Proposed Monitoring Well Locations
- Pride Solvents and Chemical Company
- Buildings
- 5-ft Topographic Contour
- 1-ft Topographic Contour

Note: Topographic elevation data is in Feet above Mean Sea Level (datum is NAVD88)

Historic sample Locations

- Groundwater Profile and On-site Boring
- Monitoring Well
- Mobile Laboratory Groundwater Screening
- MIP/Boring Location

0 75 150 300 Feet

Figure 4
Monitoring Well Locations
Remedial Investigation / Feasability Study
Pride Solvents and Chemical Company
West Babylon, New York

CDM

Table

Table 1
Analytical Sample Summary
Pride Solvent and Chemical Company
West Bablyon, New York

Event	Sample Type	Sample Count	Analysis	Method	Comment
Groundwater Screening					
	Environmental	69	VOC	EPA SOW OLM04.3	23 locations with 3 samples per location
	Duplicate	4	VOC	EPA SOW OLM04.3	4 duplicates (1 per 20 samples)
	Field Blank	5	VOC	EPA SOW OLM04.3	5 field blanks (1 per roll of tubing)
	Trip Blank	46	VOC	EPA SOW OLM04.3	46 (1 per day)
	MS/MDS	8	VOC	EPA SOW OLM04.3	4 MS/MSDs (1 per 20 samples)
Monitoring Well Sampling					
	Environmental	16	LDL VOCs	EPA SOW OLC03.2	16 locations (7 new wells and 9 existing wells)
		16	[1]Nitrate/Nitrite	353.2	
		16	Sulfate	375.4	
		16	Chloride	325.3	
		16	Alkalinity	310.1	
		16	Total organic carbon	EPA 415.1/415.2	
		16	Methane, ethane, ethene	RSK 175	
	Duplicate	1	TCL VOCs	EPA SOW OLC03.2	1 duplicate (1 per 20 samples)
		1	[1]Nitrate/Nitrite	353.2	
		1	Sulfate	375.4	
		1	Chloride	325.3	
		1	Alkalinity	310.1	
		1	Total organic carbon	EPA 415.1/415.2	
		1	Methane, ethane, ethene	RSK 175	
	Field Blank	6	LDL VOCs	EPA SOW OLC03.2	1 field blank per day for 6 days
		6	[1]Nitrate/Nitrite	353.2	
		6	Sulfate	375.4	
		6	Chloride	325.3	
		6	Alkalinity	310.1	
		6	Total organic carbon	EPA 415.1/415.2	
		6	Methane, ethane, ethene	RSK 175	
	Trip Blank	6	LDL VOCs	EPA SOW OLC03.2	1 trip blank per day for 6 days
		6	Methane, ethane, ethene	RSK 175	
	MS/MDS	2	LDL VOCs	EPA SOW OLC03.2	1 MS/MSDs (1 per 20 samples)
		2	Methane, ethane, ethene	RSK 175	
IDW Sampling					
	Characterization	8	Full TCLP		2 aqueous samples from the water tank and 2 samples from each roll-off
		8	RCRA characteristics (ignitability, corrosivity, reactivity)		
		8	PCB	8082	

Appendix A

Health and Safety Plan

HEALTH AND SAFETY PLAN FORM *This document is for the exclusive* **CAMP DRESSER & McKEE INC.**
CDM Health and Safety Program *use of CDM and its subcontractors* **PROJECT DOCUMENT #:**

PROJECT NAME	Pride Solvents and Chemical Co. Site No. 1-52-025	**PROJECT#**	0897-65986	**REGION**	PSG NER
JOBSITE ADDRESS	78-88 Lamar Street Babylon, Suffolk County, New York	**CLIENT**			NYSDEC
		CLIENT CONTACT			Tara Diaz
		CLIENT CONTACT PHONE #			518-402-9621

( ) AMENDMENT TO EXISTING APPROVED H&SP
( ) H&SP AMENDMENT NUMBER? _____ **( ) DATE EXISTING APPROVED H&SP** _____

OBJECTIVES OF FIELD WORK:
(e.g. collect surface soil samples):

1) Geophysical survey including all sampling locations

2) Geoprobe soil sampling (5 onsite points and 13 offsite points)

3) Installation (oversight) of 5 new groundwater monitoring wells (soil sampling will be conducted)

4) Groundwater sampling at up to 27 new and existing wells.

Type *Check as many as applicable*

Active	(X)	Landfill	( )	Unknown	( )
Inactive	( )	Uncontrolled	(X)	Military	( )
Secure	( )	Industrial	(X)	Other (specify)	(X) Commercial
Unsecure	(X)	Recovery	( )		
Enclosed space	( )	Well Field	( )		

All requirements described in the CDM Health and Safety Assurance Manual for Hazardous Waste Operations are incorporated in this health and safety plan by reference.

DESCRIPTION AND FEATURES:

Located at 78-88 Lamar Street, Babylon, NY the Pride Solvents and Chemical Co. site occupies approximately 1.38 acres and is located within the West Babylon Industrial Area (also known as the Pinelawn Industrial Area). The site investigation will include both onsite activies and activities at locations south of the site throughout the industrial complex. To the west of the study area is the Babylon Town Landfill, to the north is the Wellwood Cemetary, to the south is New Montefiore Cemetary property, and approximately 1/2 mile to the east are residential properties. The study area is relatively flat with its surface area covered with concrete and/or asphalt. The area is relatively flat, and the average onsite elevation is approximately 60 feet amsl.

SURROUNDING POPULATION: ( ) Residential (X) Industrial (X) Commercial ( ) Rural (X) Urban OTHER:

HEALTH AND SAFETY PLAN FORM	*This document is for the exclusive*	CAMP DRESSER & McKEE INC.
CDM Health and Safety Program	*use of CDM and its subcontractors*	**PROJECT DOCUMENT #:**

SITE MAP: *Show Exclusion, Contamination Reduction, and Support Zones. Indicate Evacuation and Reassembly Points*

For Geoprobe and Monitoring Well Installation activities: the exclusion zone will include all points within 10 feet of the investigation activities or a sampling location. The contamination reduction zone will consist of a ten foot radius outside of the exclusion zone and will be cordoned off with cones and caution tape. The support zone will be a 10 foot radius outside of the CRZ. All zones are mobile, established in consideration of the prevailing wind direction and will be established and moved as work crew advances to new locations.

HEALTH AND SAFETY PLAN FORM	*This document is for the exclusive*	**CAMP DRESSER & McKEE INC.**
CDM Health and Safety Program	*use of CDM and its subcontractors*	**PROJECT DOCUMENT #:**

HISTORY: *Summarize conditions that relate to hazard. Include citizen complaints, spills, previous investigations or agency actions, known injuries, etc.*

The site operated as a chemical and solvent distribution and reclamation facility which was regulated as a hazardous waste treatment, storage, and disposal (TSD) facility under the Resource Conservation and Recovery Act (RCRA). The facility was equipped to receive and store waste solvents, then reclaim the material by a filtration and distillation process. The operation at 78 Lamar Street included storage and reclamation of chlorinated and fluorinated solvents by distillation. The primary use of the building was for drum storage with a small portion relegated to the distillation process and office space. Reportedly, Pride Solvents received waste chlorinated solvents and Freon(s) in 55-gallon drums. Portions of the wastes received were stored indoors within an epoxy coated bermed spill containment area constructed in the storage area. Full 55-gallon drums were also purportedly stored outside exposed to the elements (not under a cover) in the north and middle yards. Reportedly, operations at the 88 Lamar Street facility were limited to bulk storage, drum packaging, and distribution of non-flammable and combustible organic solvents. Behind 88 Lamar Street (west) is a bermed, covered drum storage area with an epoxy-coated concrete floor. Prior to January 1991, the north yard of 88 Lamar Street contained sixteen (16) underground storage tanks (USTs). Twelve of the USTs were removed by

Tyree Brothers Environmental Services, Inc (Tyree) during December 1990 (Tyree, 1993). None of the 12 USTs removed were reported to be visually leaking. The remaining four USTs were filled with concrete and left in place.

WASTE TYPES: ( ) Liquid (X) Solid ( ) Sludge ( ) Gas ( ) Unknown (X) Other, specify: contaminated groundwater

Check as many as applicable.

( ) Corrosive	( ) Flammable	( ) Radioactive
( ) Toxic	**(X) Volatile**	( ) Reactive
( ) Inert Gas	( ) Unknown	( ) Other, specify:

WORK ZONES: *Describe the Exclusion, Contamination Reduction, and Support Zones in terms on-site personnel will recognize*

The exclusion zone will include all points within 10 feet of the investigation activities or a sampling location. The contamination reduction zone will consist of a ten foot radius outside of the exclusion zone. The support zone will be a 10 foot radius outside of the CRZ. All zones are mobile, established in consideration of the prevailing wind direction and will be established and moved as work crew advances to new locations.

HAZARDS OF CONCERN:

(X) Heat Stress	**(X) Noise**
( ) Cold Stress	**(X) Inorganic Chemicals - metals**
( ) Explosive/Flammable	**(X) Organic Chemicals**
( ) Oxygen Deficient	**(X) Motorized Traffic**
( ) Radiological	**(X) Heavy Machinery:Drill Rig**
(X) Biological - ticks, insects	**(X) Slips, Trips, & Falls**
( ) Other	

FACILITY'S PAST AND PRESENT DISPOSAL METHODS AND PRACTICES:

Historical reports document the release of VOCs and CVOCs to soil, groundwater, septic systems, and dry wells at the facility.

HEALTH AND SAFETY PLAN FORM *This document is for the exclusive*
Health and Safety Program *use of CDM and its subcontractors*

HAZARDOUS MATERIAL SUMMARY: *Circle waste type and estimate amounts by category.*

CHEMICALS: *Amount/Units:*	**SOLIDS:** *Amount/Units:*	**SLUDGES:** *Amount/Units:*	**SOLVENTS:** *Amount/Units:*	**OILS:** *Amount/Units:*	**OTHER:** *Amount/Units:*
Acids	Flyash	Paints	Halogenated (chloro, bromo) Solvents	Oily Wastes	Laboratory
Pickling Liquors	Mill or Mine Tailings	Pigments	Hydrocarbons	Gasoline	Pharmaceutical
Caustics	Asbestos	Metals Sludges	Alcohols	Diesel Oil	Hospital
Pesticides	Ferrous Smelter	POTW Sludge	Ketones	Lubricants	Radiological
Dyes/Inks	Non-Ferrous Smelter	Aluminum	Esters	PCBs	Municipal
Phenols	Metals	Distillation Bottoms	Ethers	Polynuclear Aromatics	Construction
Halogens	Other *specify:*	Other *specify:*	Other *specify:* PCE, TCE, 1,1,1-TCA	Other *specify:*	Munitions
Metals	Heavy Metals - unspecified				Other *specify:*
Dioxins					
Other *specify:*					

LL HAZARD EVALUATION: ( ) High (X) Medium ( ) Low ( ) Unknown *(Where tasks have different hazards, evaluate each.)*

JUSTIFICATION:
The contamination is reportedly isolated to the Upper Glacial aquifer. High concentrations might be present in both shallow and deeper groundwater and/or soil during intrusive activities.

EXPLOSION POTENTIAL: ( ) High ( ) Medium (X) Low ( ) Unknown

KNOWN CONTAMINANTS	HIGHEST OBSERVED CONCENTRATION	PEL/TLV *ppm or mg/m3 (specify)*	IDLH *ppm or mg/m3 (specify)*	Warning Concentration *(in ppm)*	SYMPTOMS & EFFECTS OF ACUTE EXPOSURE	PHOTO IONIZATION POTENTIAL
Tetrachloroethylene (PCE)	14,000 ug/L in GW 12 ppm in S	25 ppm	150 ppm	47 ppm	Irritated eyes, nose, throat, flushed face & neck, dizziness	9.32
Trichloroethylene (TCE)	1,900 ug/L in GW 1.2 ppm in S	50 ppm	1,000 ppm	82 ppm	Vertigo, visual disturbance, headache, drowsiness	9.45
1,1,1-Trichloroethane (1,1,1-TCA)	2,200 ug/L in GW 0.6 ppm in S	350 ppm	700 ppm	400 ppm	Headache, CNS depression, loss of balance, eye irritation	11.00
1,1-Dichloroethane (1,1-DCA)	45 ug/L in GW 1.7 ppm in S	100 ppm	3,000 ppm	120 ppm	Skin irritation, drowsiness	11.10
1,1-Dichloroethene (1,1-DCE)	78 ug/L in GW 1.7 ppm in S	1 ppm	>500 ppm	1.1 ppm	No acute effects	<11.0
cis-1,2-Dichloroethene (cis-1,2-DCE)	11 ug/L in GW 1.7 ppm in S	200 ppm	1,000 ppm	1.1 ppm	Irritated eyes, CNS depression	10.00
Chloroethane	10 ug/L in GW	100 ppm	3,800 ppm	NA	Incoordination, stomach cramps, Cardiac arrhythmia	10.97
Vinyl Chloride (VC)	10 ug/L in GW	1 ppm	Carc.	NA	Weakness, stomach pain, cancer	10.00

Chemicals which detected concentrations at estimated levels are not presented.

NA = Not Available **NE = None Established** **U = Unknown**

Attach, to this plan, an MSDS for each chemical you will use at the site: Isobutylene calibration gas; hydrochloric acid sample preservation.

S = Soil SW = Surface Water T = Tailings W = Waste TK = Tanks SD = Sediment
A = Air GW = Ground Water SL = Sludge D = Drums L = Lagoons OFF = Off-Site

HEALTH AND SAFETY PLAN FORM	*This document is for the exclusive*	**CAMP DRESSER & McKEE INC.**
CDM Health and Safety Program	*use of CDM and its subcontractors*	**PROJECT DOCUMENT #:**

TASK DESCRIPTION/SPECIFIC TECHNIQUE/SITE LOCATION *(attach additional sheets as necessary)*	**Type**	**Primary**	**Contingency**	**HAZARD & SCHEDULE**
1) Geophysical survey including all sampling locations	Intrusive **Non-intrusive**	A B C **D** Modified	A B C D **Exit Area**	Hi Med **Low** Aug-08
2. Geoprobe soil sampling (5 onsite points and 13 offsite points)	**Intrusive** **Non-intrusive**	A B C **D** Modified	A B C D **Exit Area**	Hi Med **Low** Sep-08
3. Installation (oversight) of 5 new groundwater monitoring wells (soil sampling will be conducted)	**Intrusive** Non-intrusive	A B C **D** Modified	A B C D **Exit Area**	Hi Med **Low** Oct-08
4. Groundwater sampling at up to 27 new and existing wells.	**Intrusive** Non-intrusive	A B C **D** Modified	A B C D **Exit Area**	Hi Med **Low** Dec-09
	Intrusive Non-intrusive	A B C D Modified	A B C D Exit Area	Hi Med Low
	Intrusive Non-intrusive	A B C D Modified	A B C D Exit Area	Hi Med Low

PERSONNEL AND RESPONSIBILITIES

NAME	**FIRM/DIVISION**	**CDM HEALTH CLEARANCE**	**RESPONSIBILITIES**	**On Site?**
Melissa Koberle	CDM/EMP	B-S	H & S Coordinator/Field Manager	1-2-3-4-5-6
Stefanie Britch	CDM/EMP	B-S	Field Scientist	1-2-3-4-5-6
Dennis Grove	CDM/EMP	B-S	Field Technician	1-2-3-4-5-6
Frank Robinson	CDM/EMP	B-S	Field Technician	1-2-3-4-5-6
Cristina Ramacciotti	CDM/EMP	B-S	Task Manager	1-2-3-4-5-6
Seth Kellogg	CDM/EMP	B-S	Project Manager	1-2-3-4-5-6
Chris Marlowe	CDM/EMP	C	H&S Manager	No

Buddy system must be complied with either by client, CDM or contractor serving as buddy.

HEALTH AND SAFETY PLAN FORM *This document is for the exclusive* **CAMP DRESSER & McKEE INC.**

CDM Health and Safety Program *use of CDM and its subcontractors* **PROJECT DOCUMENT #:**

PROTECTIVE EQUIPMENT: *Specify by task. Indicate type and/or material, as necessary. Group tasks if possible. Use copies of this sheet if needed.*

BLOCK A - Primary

TASKS: (1 - 2 - 3 - 4) - 5 - 6 - 7 - 8
LEVEL: A - B - C - (D - Modified) ( ) Contingency
(x) Primary

Respiratory: (**XX**) Not needed
( ) SCBA, Airline
( ) APR
( ) Cartridge
( ) Escape Mask
( ) Other:

Head and Eye: ( ) Not needed
(X) Safety Glasses: Task 2-4
( ) Face Shield:
( ) Goggles:
(X) Hard Hat: Task 2 and 3
( ) Other:

Boots: ( ) Not needed
(X) Steel-Toe
( ) Rubber **(X) Leather**
( ) Overboots: Latex (optional)

Prot. Clothing: ( ) Not needed
( ) Encapsulated Suit
( ) Splash Suit
( ) Apron
( ) Tyvek Coverall
( ) Saranex Coverall
( ) Cloth Coverall
(X) Other: **work clothes**
(X) Other: **traffic safety vest**
Gloves: ( ) Not needed
(X) Undergloves: **Nitriles for Tasks 2-4**
(X) Gloves: Nitrile for Tasks 2-3
( ) Overgloves: Nitrile

Other: specify below
(X) Tick Spray
( ) Flotation Device
(X) Hearing Protection
(X) Sun Screen

BLOCK B-Contingency

TASKS: (1 - 2 - 3 - 4) - 5 - 6 - 7 - 8 - 9 - 10
LEVEL: A - B - C - D - Modified (x) Contingency
( ) Primary

Respiratory: ( ) Not needed
( ) SCBA, Airline
( ) APR
( ) Cart[illegible]nation
( ) Esca[illegible]
( ) Othe[illegible]

Head and Eye: ( ) Not needed
( ) Safety Glasses
( ) Face Shield
( ) Goggles
( ) Hard Hat
( ) Oth[illegible]

Boo[illegible]
( ) [illegible] Shan[illegible]
( ) Rubber ( ) Leather
( ) Overboots: Latex

Prot. Clothing: ( ) Not needed
( ) Encapsulated Suit
( ) Splash Suit
( ) Ap[illegible]
[illegible]y[illegible]
) Sa[illegible] Co[illegible]
Cl[illegible]ove[illegible]
( ) Other:

Gloves: ( ) Not needed
( ) Undergloves: PVC
( ) Gloves: Cotton
( ) Overgloves: Nitrile

[illegible]fy h[illegible]
Tick Spra[illegible]
( ) Flotation Device
( ) Heating Protection
( ) Sun Screen

BLOCK C

TASKS: 1 - 2 - 3 - 4 - 5 - 6 - 7 - 8 - 9 - 10
LEVEL: A - B - C - D - Modified ( ) Contingency
(x) Primary

Respiratory: ( ) Not needed
( ) SCBA, Airline:
( ) APR:
( ) Cartridge:
( ) Escape Mask:
( ) Other:

Head and Eye: ( ) Not needed
( ) Safety Glasses:
( ) Face Shield:
( ) Goggles:
( ) Hard Hat:
( ) Other:

Boots: ( ) Not needed
( ) Steel-Toe ( ) Steel Shank
( ) Rubber ( ) Leather
( ) Overboots:

Prot. Clothing: ( ) Not needed
( ) Encapsulated Suit:
( ) Splash Suit
( ) Apron:
( ) Tyvek Coverall
( ) Saranex Coverall
( ) Cloth Coverall:
( ) Other:

Gloves: ( ) Not needed
( ) Undergloves:
( ) Gloves:
( ) Overgloves:

Other: specify below
( ) Tick Spray
( ) Flotation Device
( ) Heating Protection
( ) Sun Screen

BLOCK D

TASKS: 1 - 2 - 3 - 4 - 5 - 6 - 7 - 8 - 9 - 10
LEVEL: A - B - C - D - Modified (x) Contingency
( ) Primary

Respiratory: ( ) Not needed
( ) SCBA, Airline
( ) APR
( ) Cartridge
( ) Escape Mask
( ) Other:

Head and Eye: ( ) Not needed
( ) Safety Glasses
( ) Face Shield
( ) Goggles
( ) Hard Hat
( ) Other:

Boots: ( ) Not needed
( ) Steel-Toe ( ) Steel Shank
( ) Rubber ( ) Leather
( ) Overboots

Prot. Clothing: ( ) Not needed
( ) Encapsulated Suit
( ) Splash Suit
( ) Apron
( ) Tyvek Coverall
( ) Saranex Coverall
( ) Cloth Coverall
( ) Other:

Gloves: ( ) Not needed
( ) Undergloves
( ) Gloves
( ) Overgloves

Other: specify below
( ) Tick Spray
( ) Flotation Device
( ) Heating Protection
( ) Sun Screen

CDM Health and Safety Program	*use of CDM and its subcontractors*	**PROJECT DOCUMENT #:**

MONITORING EQUIPMENT: *Specify by task. Indicate type as necessary. Attach additional sheets if needed.*

INSTRUMENT	**TASK**	**ACTION GUIDELINES**		**COMMENTS** *(When and how will you use the monitor?)*
Combustible Gas Indicator	1-(2)-3-4-5-6-7-8	0-10% LEL 10-25% LEL >25% LEL 21.0% O2 <21.0% O2 <19.5% O2	*No explosion hazard* *Potential explosion hazard; notify SHSC* *Explosion hazard; interrupt task/evacuate* *Oxygen normal* *Oxygen deficient; notify SHSC* *Interrupt task/evacuate*	( ) Not Needed Needed for all drilling activities
Radiation Survey Meter	1-2-3-4-5-6-7-8	3 x Background: >2mR/hr:	*Notify HSM* *Establish REZ*	(X) Not Needed
Photoionization Detector 11.8 eV Lamp Type OVM	1-(2)-3-4-5-6-7-8	*Specify:* 0-1 ppm: Level D 1-20 ppm: Level D. Check for vinyl chloride > 20 ppm Leave area. Call HSM		( ) Not Needed Monitor breathing zone continuously. Compare action levels to time-averaged breathing zone measurements.
Flame Ionization Detector Type_____	1-2-3-4-5-6-7-8	*Specify:*		(X) Not Needed
Detector Tubes/ Monitox Type: Vinyl Chloride	1-(2)-3-4-5-6-7-8	*Specify:* 0-0.5 ppm: level D > 0.5 ppm Leave Area. Call HSM		( ) Not Needed
Respirable Dust Monitor Type_____	1-(2)-3-4-5-6-7-8	*Specify:* If team observes visible concentrations of airborne dust or dry, windy conditions that dust, team will leave area.		( ) Not Needed Community Air Monitoring will be required for Task 3.
Other *Specify:*	(1-2-3-4)-5-6-7-8	*Specify:* If team notices unusual odors or irritation of the eye or throat, they will leave the area.		

HEALTH AND SAFETY PLAN FORM **CDM Health and Safety Program**	*This document is for the exclusive use of CDM and its subcontractors*	**CAMP DRESSER & McKEE INC.** **PROJECT DOCUMENT #:**

DECONTAMINATION PROCEDURES

ATTACH SITE MAP INDICATING EXCLUSION, DECONTAMINATION, AND SUPPORT ZONES AS PAGE TWO

Personnel Decontamination *Summarize below or attach diagram;*	**Sampling Equipment Decontamination** *Summarize below or attach diagram;*	**Heavy Equipment Decontamination** *Summarize below or attach diagram;*
Team members will remove their protective clothing in the following order: 1. Equipment drop. 2. Glove removal 3. Hand and face wash.	Sampling equipment will be decontaminated by: 1. Gross mechanical removal of dirt. 2. Alconox/Water wash. 3. Potable water rinse. 4. Distilled water rinse.	Drill rigs and/or geoprobes used for hydropunch and soil vapor sampling will be decontaminated by: 1. Gross mechanical removal of dirt. 2. Alconox/Water wash. 3. Potable water rinse. Heavily contaminated equipment will be steam cleaned
Containment and Disposal Method Disposable protective equipment will be disposed of in CDM dumpster, unless heavily contaminated. If heavily contaminated, disposable equipment will be contained in drums and left on site for proper disposal.	**Containment and Disposal Method** Sampling equipment cleaning water solutions will be allowed to drain to the groundwater. If heavily contaminated, disposable equipment will be contained in drums and left on site for proper disposal.	**Containment and Disposal Method** Decontamination fluids will be released to the ground, unless heavily contaminated. If heavily contaminated, contractor will contain the waste in drums, and left on site for proper disposal.

HEALTH AND SAFETY PLAN FORM	*This document is for the exclusive*	**CAMP DRESSER & McKEE INC.**
CDM Health and Safety Program	*use of CDM and its subcontractors*	**PROJECT DOCUMENT #:**

EMERGENCY CONTACTS	**NAME**	**PHONE**
Water Supply		
Site Telephone		267-294-8925
EPA Release Report #:		800-424-8802
CDM 24-Hour Emergency #:		732-539-8128
CHEMTREC Emergency #:		800-424-9300
Underground Utility	UFPO	800-962-7962

CONTINGENCY PLANS:

If work team observes hazards for which they are not prepared, they will withdraw from the area and call the health and safety manager. Solo employees will not enter or remain in the work area unless accompanied by contractor or facility personnel. CDM may rely on instruments owned and operated by the contractor only upon HSM approval.

Without regard to the instrument readings, personnel will leave the site and upgrade their level of protection if they experience nausea or dizziness. If contractor directs a higher level of protection than this plan does, CDM personnel will wear that level. CDM personnel may choose to wear more protection than directed by this plan.

Contractor will be expected to inspect its equipment and certify its suitability for the project to the CDM SHSC. CDM will conduct daily health and safety meetings prior to the start of work or change in working procedures.

SHSC will designate evacuation routes. Teams will cease work if they see lightning or thunder storms in the area.

HEALTH AND SAFETY PLAN APPROVALS

Prepared by Cristina Ramacciotti Date 7/2008

HSM Signature

EMERGENCY CONTACTS	**NAME**	**PHONE**
CDM Health and Safety Manager	Chris Marlowe	732-590-4632
CDM Field Manager	Melissa Koberle	508-942-0448
CDM Site Safety Coordinator	Melissa Koberle	508-942-0448
Client Contact	Tara Diaz	518-402-9621
Other: CDM Task Manager	Cristina Ramacciotti	732-421-3513
Other: CDM Project Manager	Seth Kellogg	732-421-4674
Environmental Agency	NYSDEC - Tara Diaz	518-402-9621
State Spill Number	New York	800-342-9296
Fire Department		911
Police Department		911
State Police		911
Health Department		866-881-2809
Poison Control Center	Nationwide	800-222-1222
Occupational Physician	Jerry Berke	800-350-4511

HOSPITAL INFORMATION

Name: **Good Samaritan Medical Center**
Phone: **631-376-4444**
Address: **1000 Montauk Highway, West Islip, NY**

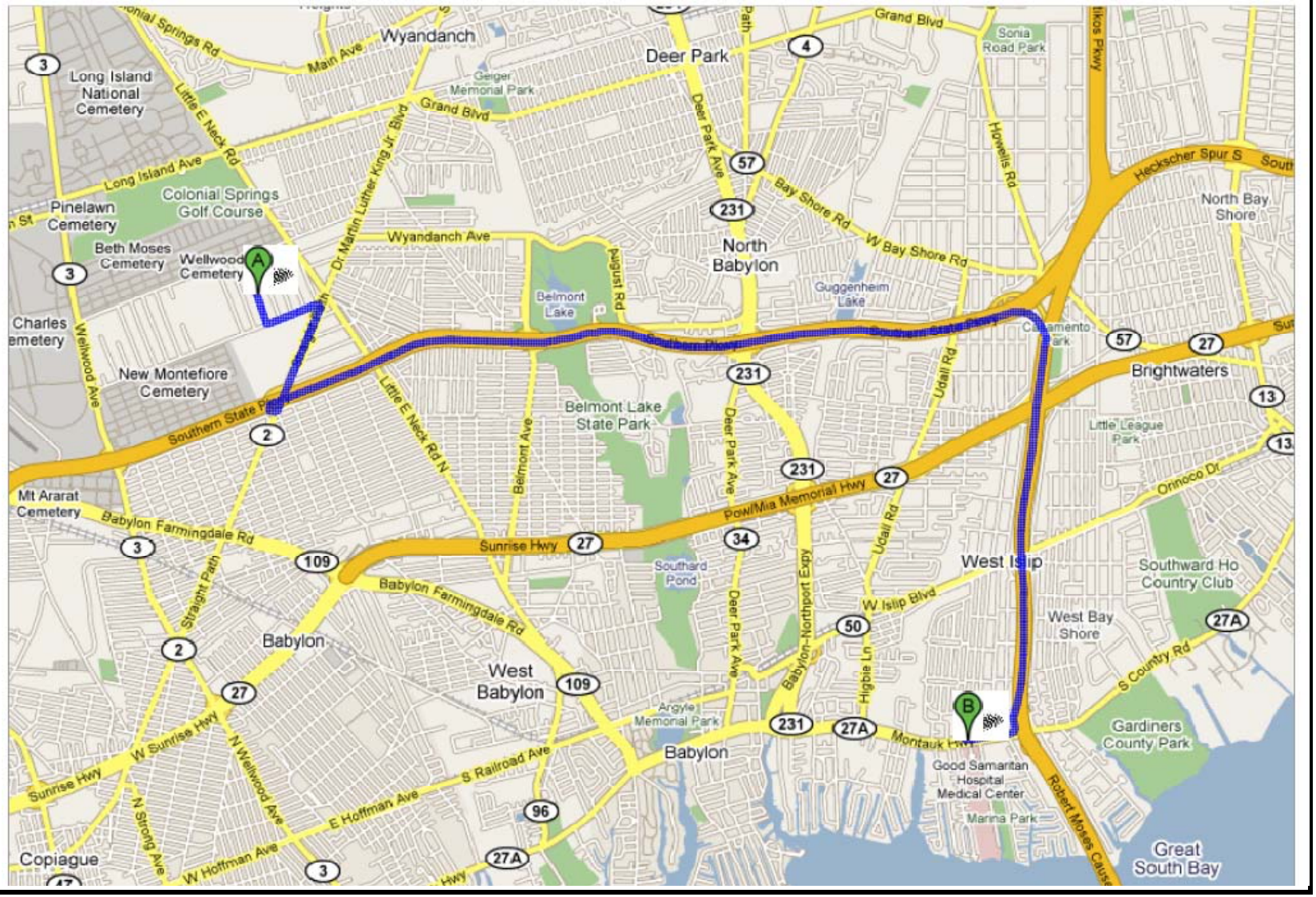
Route:

1) Head **SOUTH** on **LAMAR ST** toward **EDISON AVE** (0.2 miles).
2) Turn **LEFT** at **EDISON AVE** (0.3 mi).
3) Turn **RIGHT** at **PEARY ST** (128 ft).
4) Turn **RIGHT** at **CR-2/STRAIGHT PATH** (0.7 miles).
5) Slight **RIGHT** to merge onto **SOUTHERN PARKWAY E/SOUTHERN STATE PARKWAY** toward E Islip (4.7 miles).
6) Take **Exit 40** to merge onto **Robert Moses Causeway S** toward Ocean Beaches (2.5 miles).
7) Take **Exit RM2W** for RT-27A W toward Babylon (0.2 miles).
8) Turn RIGHT on **MONTAUK HIGHWAY/RT-27A** (0.3 miles).

Distance: 9.1 Miles

HEALTH AND SAFETY PLAN FORM	*This document is for the exclusive*	**CAMP DRESSER & McKEE INC.**
CDM Health and Safety Program	*use of CDM and its subcontractors*	

ROUTE TO HOSPITAL MAP:



New York State Department of Health
Generic Community Air Monitoring Plan

A Community Air Monitoring Plan (CAMP) requires real-time monitoring for volatile organic compounds (VOCs) and particulates (i.e., dust) at the downwind perimeter of each designated work area when certain activities are in progress at contaminated sites. The 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 did not spread contamination off-site through the air.

The generic CAMP presented below will be sufficient to cover many, if not most, sites. Specific requirements should be reviewed for each situation in consultation with NYSDOH to ensure proper applicability. In some cases, a separate site-specific CAMP or supplement may be required. Depending upon the nature of contamination, chemical-specific monitoring with appropriately-sensitive methods may be required. Depending upon the proximity of potentially exposed individuals, more stringent monitoring or response levels than those presented below may be required. Special requirements will be necessary for work within 20 feet of potentially exposed individuals or structures and for indoor work with co-located residences or facilities. These requirements should be determined in consultation with NYSDOH.

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

Community Air Monitoring Plan

Depending upon the nature of known or potential contaminants at each site, real-time air monitoring for volatile organic compounds (VOCs) and/or particulate levels at the perimeter of the exclusion zone or work area will be necessary. Most sites will involve VOC and particulate monitoring; sites known to be contaminated with heavy metals alone may only require particulate monitoring. If radiological contamination is a concern, additional monitoring requirements may be necessary per consultation with appropriate NYSDEC/NYSDOH staff.

Continuous monitoring will be required for all <u>ground intrusive</u> activities and during the demolition of contaminated or potentially contaminated structures. Ground intrusive activities include, but are not limited to, soil/waste excavation and handling, test pitting or trenching, and the installation of soil borings or monitoring wells.

Periodic monitoring for VOCs will be required during non-intrusive activities such as the collection of soil and sediment samples or the collection of groundwater samples from existing monitoring wells. "Periodic" monitoring during sample collection might reasonably consist of taking a reading upon arrival at a sample location, monitoring while opening a well cap or overturning soil, monitoring during well baling/purging, and taking a reading prior to leaving a sample location. In some instances, depending upon the proximity of potentially exposed individuals, continuous monitoring may be required during sampling activities. Examples of such situations include groundwater sampling at wells on the curb of a busy urban street, in the midst of a public park, or adjacent to a school or residence.

VOC Monitoring, Response Levels, and Actions

Volatile organic compounds (VOCs) must be monitored at the downwind perimeter of the immediate work area (i.e., the exclusion zone) on a **continuous** basis or as otherwise specified. Upwind concentrations should be measured at the start of each workday and periodically thereafter to establish background conditions. The monitoring work should be performed using equipment appropriate to measure the types of contaminants known or suspected to be present. The equipment should be calibrated at least daily for the contaminant(s) of concern or for an appropriate surrogate. The equipment should 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 must be recorded and be available for State (DEC and DOH) personnel to review. Instantaneous readings, if any, used for decision purposes should also be recorded.

Particulate Monitoring, Response Levels, and Actions

Particulate concentrations should be monitored **continuously** at the upwind and downwind perimeters of the exclusion zone at temporary particulate monitoring stations. The particulate monitoring should 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/m^3) greater than background (upwind perimeter) for the 15-minute period or if airborne dust is observed leaving the work area, then dust suppression techniques must be employed. Work may continue with dust suppression techniques provided that downwind PM-10 particulate levels do not exceed 150 mcg/m^3 above the upwind level and provided that no visible dust is migrating from the work area.

- If, after implementation of dust suppression techniques, downwind PM-10 particulate levels are greater than 150 mcg/m^3 above the upwind level, work must be stopped and a re-evaluation of activities initiated. Work can resume provided that dust suppression measures and other controls are successful in reducing the downwind PM-10 particulate concentration to within 150 mcg/m^3 of the upwind level and in preventing visible dust migration.

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

June 20, 2000

P:\Bureau\Common\CommunityAirMonitoringPlan (CAMP)\GCAMPR1.DOC

Appendix B

2.11 forms

Schedule 2.11(a)

Summary of Work Assignment Price

Work Assignment Number D004437-30

1) Direct Salary Costs (Schedules 2.10(a) and 2.11(b))	$99,968
2) Indirect Costs (Schedule 2.10(g))	$167,846
3) Direct Non-Salary Costs (Schedules 2.10(b)(c)(d) and 2.11(c)(d))	$69,215

4) Subcontract Costs

Cost-Plus-Fixed-Fee Subcontracts (Schedule 2.10(e) and 2.11(e))

	Name of Subcontractor	Services To Be Performed	Subcontract Price
i)	Ken Schider Consulting	W/MBE Reporting	$1,800
ii)			
iii)			

A) Total Cost-Plus-Fixed-Fee Subcontracts $1,800

Unit Price Subcontracts (Schedule 2.10 (f) and 2.11 (f))

	Name of Subcontractor	Services To Be Performed	Subcontract Price
i)	Zebra Environmental	Direct Push Driller	$80,146
ii)	Mitkem	Laboratory	$32,636
iii)	Nancy Potak	WBE Data Validator	$2,540
iv)	Om P. Popli, P.E., L.S., P.C.	MBE Topographic Survey	$8,215
v)	SeaCoast Environmental	Investigation Derived Waste	$34,415
vi)	Land, Air, Water Environmental	WBE Driller	$85,560

B) Total Unit Price Subcontracts $243,512

5) Subcontract Management Fee	$ 11,764.85
6) Total Subcontract Costs (lines 4A + 4B + 5)	$257,076
7) Fixed Fee (Schedule 2.10(h))	$18,747
8) Total Work Assignment Price (Lines 1 + 2 + 3 + 6 + 7)	$612,851

Engineer/Contract # D004437-30
Project Name Pride Solvent & Chemical
Work Assignment No. D004437-30

Date Prepared: 8/11/2008

Schedule 2.11(b)
Direct Labor Hours Budgeted

Labor Classification	*IX*		*VIII*		*VII*		*VI*		*V*		*IV*		*III*		*II*		*I*		*Tech. Support*		*Admin Support*		*Total No. of Direct Labor Hours and Costs Budgeted*	
*Av. Salary Rate ($) Year 2008	$65.24		$59.42		$52.09		$45.95		$38.75		$32.86		$28.62		$25.52		$21.12		$0.00		$21.12		0	
Description	Hours	Cost	Hours	Cost	Hours	Cost	Hours	Cost	Hours	Cost	Hours	Cost	Hours	Cost	Hours	Cost	Hours	Cost	Hours	Cost	Hours	Cost	Hours	Cost
Task 1 Work Plan Development	24	$1,565.76	2	$118.84	0	$0.00	80	$3,676.00	0	$0.00	64	$2,103.04	0	$0.00	20	$510.40	0	$0	0	$0.00	16	$337.92	206	$8,311.96
Task 2 Existing Data Tabulation and Evaluation	8	$521.92	12	$713.04	2	$104.18	40	$1,838.00	0	$0.00	100	$3,286.00	0	$0.00	40	$1,020.80	0	$0	0	$0.00	8	$168.96	210	$7,652.90
Task 3 Citizen Participation	0	$0.00	0	$0.00	0	$0.00	0	$0.00	0	$0.00	0	$0.00	0	$0.00	0	$0.00	0	$0	0	$0.00	0	$0.00	0	$0.00
Task 4 Mobilization and Demobilization	0	$0.00	0	$0.00	0	$0.00	6	$275.70	0	$0.00	8	$262.88	24	$686.88	0	$0.00	8	$169	0	$0.00	0	$0.00	46	$1,394.42
Task 5 Site Investigation	4	$260.96	3	$178.26	0	$0.00	30	$1,378.50	0	$0.00	58	$1,905.88	552	$15,798.24	0	$0.00	460	$9,715	0	$0.00	0	$0.00	1107	$29,237.04
Task 6 Remedial Investigation Report	0	$0.00	0	$0.00	0	$0.00	0	$0.00	0	$0.00	0	$0.00	0	$0.00	0	$0.00	0	$0	0	$0.00	0	$0.00	0	$0.00
Task 7 Feasibility Study	0	$0.00	0	$0.00	0	$0.00	0	$0.00	0	$0.00	0	$0.00	0	$0.00	0	$0.00	0	$0	0	$0.00	0	$0.00	0	$0.00
Total Hours	36		17		2		156		0		230		576		60		468		0		24		1569	
Total Direct Labor Cost ($) **Year 2008**		$2,348.64		$1,010.14		$104.18		$7,168.20		$0.00		$7,557.80		$16,485.12		$1,531.20		$9,884		$0.00		$506.88		46,596.32

Labor Classification	*IX*		*VIII*		*VII*		*VI*		*V*		*IV*		*III*		*II*		*I*		*Tech. Support*		*Admin Support*		*Total No. of Direct Labor Hours and*	
*Av. Salary Rate ($) Year 2009	$67.20		$61.20		$53.65		$47.33		$39.91		$33.85		$29.48		$26.29		$21.75		$0.00		$21.75		0	
Description	Hours	Cost	Hours	Cost	Hours	Cost	Hours	Cost	Hours	Cost	Hours	Cost	Hours	Cost	Hours	Cost	Hours	Cost	Hours	Cost	Hours	Cost	Hours	Cost
Task 1 Work Plan Development	0	$0.00	0	$0.00	0	$0.00	0	$0.00	0	$0.00	0	$0.00	0	$0.00	0	$0.00	0	$0	0	$0.00	0	$0.00	0	$0.00
Task 2 Existing Data Tabulation and Evaluation	0	$0.00	0	$0.00	0	$0.00	0	$0.00	0	$0.00	0	$0.00	0	$0.00	0	$0.00	0	$0	0	$0.00	0	$0.00	0	$0.00
Task 3 Citizen Participation	0	$0.00	2	$122.41	0	$0.00	20	$946.57	0	$0.00	12	$406.15	0	$0.00	0	$0.00	4	$87	0	$0.00	2	$43.51	40	$1,605.65
Task 4 Mobilization and Demobilization	0	$0.00	0	$0.00	0	$0.00	8	$378.63	0	$0.00	8	$270.77	24	$707.49	0	$0.00	8	$174	0	$0.00	0	$0.00	48	$1,530.91
Task 5 Site Investigation	4	$268.79	3	$183.61	0	$0.00	30	$1,419.86	0	$0.00	58	$1,963.06	526	$15,505.74	0	$0.00	60	$1,305	0	$0.00	0	$0.00	681	$20,646.27
Task 6 Remedial Investigation Report	12	$806.37	28	$1,713.67	0	$0.00	80	$3,786.28	0	$0.00	130	$4,399.95	150	$4,421.79	0	$0.00	92	$2,001	0	$0.00	16	$348.06	508	$17,477.45
Task 7 Feasibility Study	12	$806.37	36	$2,203.29	0	$0.00	120	$5,679.42	0	$0.00	0	$0.00	60	$1,768.72	0	$0.00	60	$1,305	0	$0.00	16	$348.06	304	$12,111.07
Total Hours	28		69		0		258		0		208		760		0		224		0		34		1581	
Total Direct Labor Cost ($) **Year 2009**		$1,881.52		$4,222.98		$0.00		$12,210.75		$0.00		$7,039.93		$22,403.74		$0.00		$4,873		$0.00		$739.62		53,371.35

Total Hours	64		86		2		414		0		438		1336		60		692		0		58		3150	
Total Direct Labor Cost ($) **Year 2008 and 2009**		$4,230.16		$5,233.12		$104.18		$19,378.95		$0.00		$14,597.73		$38,888.86		$1,531.20		$14,756.97		$0.00		$1,246.50		99,967.67

* For multiple years use one average salary rate row for each year and each years subtotal Labor Cost.

Engineer/Contract # D004437-30

Project Name Pride Solvent & Chemical

Work Assignment No. D004437-30

Date Prepared: _____

Schedule 2.11(b-1)
Direct Administrative Labor Hours Budgeted

Labor Classification		*IX*	*VIII*	*VII*	*VI*	*V*	*IV*	*III*	*II*	*I*	*Admin. Support*	*Total No. of Direct Labor Hrs.*
Task 1	Work Plan Development	24									16	40
Task 2	Existing Data Tabulation and Evaluation	8									8	16
Task 3	Citizen Participation	0									2	2
Task 4	Mobilization and Demobilization	0									0	0
Task 5	Site Investigation	8									0	8
Task 6	Remedial Investigation Report	12									16	28
Task 7	Feasibility Study	12									16	28
TOTAL HOURS		64	0	0	0	0	0	0	0	0	58	122

Contract/Project administrative hours would include (subject to contract allowability) but not necessarily be limited to the following activities:

1) Work Plan Budget Development
   > Conflict of Interest Check
   > Budget schedules & supporting documentation
2) Review work assignment (WA) progress
   > Conduct progress reviews
   > Prepare monthly project report
   > Update WA progress schedule
   > Prepare M/WBE Utilization Report
3) Contractor Application for Payment (CAP)
   > Oversee and prepare monthly CAP
4) Program Management
   > Prepare monthly cost control report
   > Cost control reviews
<> Staffing Plans
   >Manage subcontracts
   > NSPE list update
   > Equipment inventory
5) Miscellaneous
   > Conduct Health and Safety Reviews
   > Word processing and graphic artists
   > Report editing

Contract/Project Administration hours would **not** inclu
1) QA/QC reviews
2) Techincal oversight by management
3) Develop subcontracts
4) Work plan development
5) Review of deliverables

Schedule 2.11 (c)

Direct Non-Salary Costs
Work Assignment Number **D004437-30**

	Item	Max. Reimbursement * Rate (Specify Unit)	Est. No. of Units	Total Estimated Cost
A)	Other			
	1) Shipping Task 1	LS	1	$100.00
	2) Outside Printing Task 1	LS	1	$1,000.00
	3) Shipping Task 2	LS	1	$100.00
	4) Outside Printing Task 2	LS	1	$1,000.00
	5) Shipping Task 3	LS	1	$50.00
	6) Outside Printing Task 3	LS	1	$100.00
	7) Shipping Task 4	LS	1	$50.00
	8) Outside Printing Task 4	LS	1	$100.00
	9) Shipping Task 5	per cooler	58	$8,700.00
	10) Outside Printing Task 5	LS	1	$100.00
	11) Shipping Task 6	LS	1	$100.00
	12) Outside Printing Task 6	LS	1	$1,000.00
	13) Shipping Task 7	LS	1	$100.00
	14) Outside Printing Task 7	LS	1	$1,000.00
			Sub-Total Other	$13,500.00
B)	Miscellaneous Task 1 - Site Visit			
	1) Mileage (per mile)	$0.585	300	$175.50
	2) Tolls	$15.00	2	$30.00
			Sub-Total Miscellaneous Task 1	$205.50
C)	Miscellaneous Task 3 - Citizen Participation			
	1) Mileage (per mile)	$0.585	150	$87.75
	2) Tolls	$15.00	1	$15.00
			Sub-Total Miscellaneous Task 3	$102.75
D)	Miscellaneous Task 4 - Topographic survey oversight			
	1) Mileage (per mile)	$0.585	150	$87.75
	2) Tolls	$15.00	1	$15.00
	3) LVE	$1.00	10	$10.00
			Sub-Total Miscellaneous Task 5	$112.75
E)	Miscellaneous Task 4 - IDW removal oversight			
	1) Mileage (per mile)	$0.585	150	$87.75
	2) Tolls	$15.00	1	$15.00
	3) LVE	$1.00	10	$10.00
			Sub-Total Miscellaneous Task 5	$112.75
F)	Miscellaneous Task 5 -Site Characterization Goundwater Screening and Monitoring well Installation			
	1) Meals (per day)	$64.00	136	$8,704.00
	2) Lodging (per day)	$127.00	136	$17,272.00
	3) Mileage (per mile)	$0.585	1950	$1,140.75
	4) PPE (level D) (per day)	$15.00	138	$2,070.00
	5) Tolls	$15.00	36	$540.00
	6) LVE	$1.00	1153	$1,153.00
			Sub-Total Miscellaneous Task 5	$30,879.75
G)	Miscellaneous Task 5 - Well Location Selection Meeting			
	1) Mileage (per mile)	$0.585	300	$175.50
	2) Tolls	$15.00	2	$30.00
			Sub-Total Miscellaneous Task 5	$205.50
			Total Direct Non-Salary Costs	**$45,119.00**

Work Assignment No. D004437-30

Schedule 2.11(d) 3

Maximum Reimbursement Rate for Vendor Rented Equipment

Item	Max Reimbursement Rate ($)*	Est. Usage (unit of time)	Est. Rental Cost ($) (Col. 2 x 3)
Task 5			
Truck Rental (per week)	$ 548.59	17	$ 9,326.03
YSI 600 XL water quality meter (per week)	$ 165.00	11	$ 1,815.00
Hach DR-890 Colorimeter (per day)	$ 27.50	6	$ 165.00
M-scope (per day)	$ 13.75	18	$ 247.50
MiniRae (per week)	$ 110.00	16	$ 1,760.00
Grunfos Pump (per day)	$ 26.13	12	$ 313.50
Generator (per day)	$ 24.75	12	$ 297.00
Dust Monitor #1 MIE DR-4000 (monthly) (includes associated auxiliary equipment for upgradient community air monitoring station)	$ 522.50	3	$ 1,567.50
Dust Monitor #2 MIE DR-4000 (monthly) (includes associated auxiliary equipment for downgradient community air monitoring	$ 522.50	3	$ 1,567.50
PID #1 (monthly) (for downgradient community air monitoring	$ 440.00	3	$ 1,320.00
Lamp 11.7 eV Interchangeable (monthly) (for downgradient community air monitoring station equipped with PID #1)	$ 123.75	3	$ 371.25
PID #2 (monthly) (for breathing zone and headspace readings)	$ 440.00	3	$ 1,320.00
Lamp 11.7 eV Interchangeable (monthly) (for breathing zone and headspace readings collected with PID #2)	$ 123.75	3	$ 371.25
Combustible Gas Indicator (weekly)	$ 82.50	12	$ 990.00
JOBCOM Radio VHF JMS-141-D (for alarms on DR-4000s)	$ 77.00	12	$ 924.00
		TOTAL:	**$22,356**

* Reimbursement will be made at the Maximum Reimbursement rate or the actual rental rate, whichever is less.

Work Assignment No. D004437-30

Schedule 2.11(d) 3

Maximum Reimbursement Rate for Consumables

Item	**Max Reimbursement Rate ($)***	**Est. Usage (unit of time)**	**Est. Rental Cost ($) (Col. 2 x 3)**
Task 5			
Ferrous Iron Ampules (box of 25)	$ 35.00	2	$ 70.00
Log books	$ 15.00	6	$ 90.00
Teflon lined tubing	$ 1.00	1530	$ 1,530.00
Wooden stakes	$ 2.00	25	$ 50.00
		TOTAL:	**$1,740**

* Reimbursement will be made at the Maximum Reimbursement rate or the actual consumable rate, whichever is less.

Schedule 2.11 (e)

Cost-Plus-Fixed-Fee Subcontracts
Work Assignment Number **D004437-30**

Name of Subcontractor	**Services to be Performed**	**Subcontract Price**
Ken Schider Consulting	**M/WBE Reporting**	**$1,799.91**

A) Direct Salary Costs

Professional Responsibility Level	**Labor Classification**	**Ave. Reimbursement Rate ($/Hr.)**	**Max. Reimbursement Rate ($/Hr.)**	**Est. No. of Hours**	**Total Est Direct Salary Cost (Ave. Reimb. Rate x Est. # of Hrs.)**
IV	Eng/Scientist 4	$32.60	$36.78	24	$782.40

Total Direct Salary Costs **$782.40**

Footnotes:

1) The labor rate averages and maximums shall be adjusted by a rate equal to the increase in the CPI index CUURA101SAO-"All Urban Consumers-New York-Northern N.J.-Long Island" for the previous year. This index is published by the U.S. Department of Labor's Bureau of Labor Statistics. The adjustment will be calculated every January and will be effective for subsequent work assignment billing and budgeting purposes.
2) Schedule 2.11(e) may be re-negotiated after four (4) years at the request of either party. Any revision as a result of re-negotiation will be subject to the approval of the Office of the State Comptroller.
3) The maximum annual escalation is limited to 5%.
4) Reimbursement will be limited to the lesser of either the individual's actual hourly rate or the maximum rate for each labor
5) Reimbursement will be limited to the maximum reimbursement rate for the professional responsibility level of the actual work
6) Only those labor classifications indicated with an asterisk will be entitled to overtime.
7) Reimbursement for technical time of principals, owners, and officers will be limited to the maximum reimbursement rate of that category, the actual hourly labor rate paid, or the State M-6 rate, whichever is lower.
8) Maximum reimbursement rates may be exceeded for work assignment activities that are under the jurisdiction of the Schedule of Prevailing Wage Rates set by the New York State Department of Labor.

B) Indirect Costs

Indirect costs shall be paid based on a percentage of direct salary costs incurred which shall not exceed a maximum of 115 % or the actual rate calculated in accordance with 48 CFR Federal Acquisition Regulation, whichever is lower.

Amount budgeted for indirect costs is: **$899.76**

C) Maximum Reimbursement Rates for Direct Non-Salary Costs

Item	**Max Reimbursement Rate (Specify Unit)**	**Est. No. of Units**	**Total Est. Cost**
1) Travel	See Schedule 2.10 (d) for rates		
2) Supplies			

Total Direct Non-Salary Costs **$0**

D) Fixed Fee

The fixed fee is: 7% **$117.75**
See Schedule 2.10 (h) for how the fixed fee should be claimed.

Schedule 2.11 (f)

Unit Price Subcontracts
Work Assignment Number **D004437-30**

Name of Subcontractor	**Services to be Performed**	**Subcontract Price**	**Management Fee**
SeaCoast Environmental	**IDW Removal**	**$34,415**	**$1,721**

Item	**Max. Reimbursement Rate (Specify Uni**		**Est. No. of Units**	**Total Est. Cost**
Investigation Derived Wastes				
Supply 21,000 gallon frac tank				
Mobilization	$ 890.00	each	1	$ 890.00
Tank rental	$ 1,100.00	month	5	$ 5,500.00
Tank cleaning	$ 1,600.00	each	1	$ 1,600.00
Demobilization	$ 890.00	each	1	$ 890.00
Handling transportation and disposal of water from tank				
Non-hazardous purge water	$ 0.44	gallon	16,000	$ 7,040.00
Hazardous purge water	$ 1.74	gallon	0	$ -
Supply 20-cy water tight roll-offs				
mobilization/demobilization	$ 750.00	each	3	$ 2,250.00
rental	$ 425.00	month	6	$ 2,550.00
Drill cuttings/mud in roll-offs - pass "paint filter test"				
Handling/transportation - non-hazardous	$ 1,600.00	load	0	$ -
Handling/transportation - hazardous	$ 2,400.00	load	0	$ -
Disposal - non-hazardous	$ 76.00	ton	0	$ -
Disposal - hazardous	$ 121.00	ton	0	$ -
Drill cuttings/mud in roll-offs - fail "paint filter test"				
Handling/transportation - non-hazardous	$ 1,600.00	load	3	$ 4,800.00
Handling/transportation - hazardous	$ 2,400.00	load	0	$ -
Disposal - non-hazardous	$ 133.00	ton	40	$ 5,320.00
Disposal - hazardous	$ 178.00	ton	0	$ -
Drill cuttings/mud in drums				
Handling/transportation - non-hazardous	$ 950.00	load	1	$ 950.00
Handling/transportation - hazardous	$ 950.00	load	0	$ -
Disposal - non-hazardous	$ 65.00	each	10	$ 650.00
Disposal - hazardous	$ 145.00	each	0	$ -
Protective gear/debris				
Handling/transportation - non-hazardous	$ 950.00	load	1	$ 950.00
Handling/transportation - hazardous	$ 950.00	load	0	$ -
Disposal - non-hazardous	$ 65.00	each	10	$ 650.00
Disposal - hazardous	$ 145.00	each	0	$ -
Empty Used Drums				
Handling/transportation - non-hazardous	$ 150.00	load	1	$ 150.00
Disposal - non-hazardous	$ 9.00	each	25	$ 225.00
Subtotal-Subcontract Price				**$34,415**
Subcontract Management Fee*				**$1,721**
TOTAL				**$36,136**

Schedule 2.11 (f)

Unit Price Subcontracts
Work Assignment Number **D004437-30**

Name of Subcontractor	Services to be Performed	Subcontract Price	Management Fee
Om P. Popli, P.E., L.S., P.C.	**MBE Topographic Survey**	**$8,215**	**$0**

Item	Max. Reimbursement Rate (Specify Unit)		Est. No. of Units	Total Est. Cost
Topographic Survey				
Base Map including locations of 30 soil borings and 12 new wells	$8,214.54	each	1	$8,215
Subtotal-Subcontract Price				**$8,215**
Subcontract Management Fee*				
TOTAL				**$8,215**

Schedule 2.11 (f)

Unit Price Subcontracts
Work Assignment Number **D004437-27**

Name of Subcontractor	Services to be Performed	Subcontract Price	Management Fee
Nancy Potak	**WBE Data Validator**	**$2,540.05**	**$127.00**

Item	Max. Reimbursement Rate (Specify Unit)				Est. No. of Units		Total Est. Cost
DATA VALIDATION Task 2.5							
Aqueous**							
1 TCL VOCs	EPA SOW OLM04.3	$	11.55	per sample	132	$	1,524.60
2 TCL VOCs	EPA SOW OLC03.2	$	11.55	per sample	23	$	265.65
3 [1]Nitrate/Nitrite	353.2	$	4.20	per sample	23	$	96.60
4 Sulfate	375.4	$	2.10	per sample	23	$	48.30
5 Chloride	325.3	$	2.10	per sample	23	$	48.30
6 Alkalinity	310.1	$	2.10	per sample	23	$	48.30
7 Total organic carbon	EPA 415.1/415.2	$	2.10	per sample	23	$	48.30
8 Methane, ethane, ethene	RSK 175	$	20.00	per sample	23	$	460.00
Subtotal-Subcontract Price						**$**	**2,540.05**
Subcontract Management Fee*						**$**	**127.00**
TOTAL						**$**	**2,667.05**

* A subcontract management fee of 5% has been included for M/WBE subcontracts.
** Items 1 through 7 from standby contract prices and include the 5% contract extension markup

Schedule 2.11 (f)

Unit Price Subcontracts
Work Assignment Number **DOO4437-30**

Name of Subcontractor	Services to be Performed	Subcontract Price	Management Fee
Land, Air, Water Environmental	**WBE Drilling**	**$85,560.00**	**$4,278.00**

Item		Unit Cost		Est. No. of Units	Total Est. Cost
1. GENERAL					
1a	Mobilization (includes construct/deconstruct decon pad)	$ 2,200.00	lump	1	$ 2,200.00
1b	Personal protective equipment	$ 25.00	day	40	$ 1,000.00
1c	Soft dig/Vactor	$ 325.00	each	7	$ 2,275.00
1d	Steam Cleaning	$ 200.00	hour	21	$ 4,200.00
1e	Steam cleaner rental	$ 100.00	day	40	$ 4,000.00
1f	55-Gallon Drums (contain cuttings)	$ 75.00	each	50	$ 3,750.00
1g	Transport/Handling of IDW (per drum)	$ 80.00	each	150	$ 12,000.00
1h	Well Development	$ 350.00	hour	56	$ 19,600.00
1i	Standby crew and rig	$ 250.00	hour	1	$ 250.00
	2 man crew	$ 125.00	hour	1	$ 125.00
2. Monitoring Well Installation					
2a	4.25 inch diameter hollow stem auger	$ 21.00	foot	360	$ 7,560.00
2c	4-inch ID Mud Rotary drilling (90-120 feet)	$ 30.00	foot	90	$ 2,700.00
2j	6.25 inch diameter hollow stem auger	$ 22.00	each	270	$ 5,940.00
	Split spoon sampling (0 to 100 feet)	$ 30.00	each	15	$ 450.00
	Split spoon sampling (100 to 150 feet)	$ 40.00	each	12	$ 480.00
3. Materials					
3a	4 inch diameter carbon steel casing	$ 18.00	foot	270	$ 4,860.00
3b	2-inch dia., Schedule 40 PVC well casing	$ 10.00	foot	650	$ 6,500.00
3c	2-inch dia., Schedule 40 PVC, 10-slot well	$ 10.00	foot	70	$ 700.00
3d	Well Completion Materials (sand pack)	$ 8.00	foot	84	$ 672.00
3e	Well Completion Materials (bentonite seal)	$ 12.00	foot	14	$ 168.00
3f	Well Completion Materials (grout)	$ 5.00	foot	552	$ 2,760.00
3g	Grout for carbon steel casing	$ 6.00	foot	270	$ 1,620.00
3h	Well Surface Completion (protective casing, well caps, tags, concrete pad, locking cap +	$ 250.00	each	7	$ 1,750.00
Subtotal-Subcontract Price					**$ 85,560.00**
Subcontract Management Fee*					**$ 4,278.00**
TOTAL					**$ 89,838.00**

* Subcontract Management Fee of 5% on Subcontracts over $10,000

Schedule 2.11 (f)

Unit Price Subcontracts
Work Assignment Number **DOO4437-30**

Name of Subcontractor	**Services to be Performed**	**Subcontract Price**	**Management Fee**
Zebra Environmental	**Direct Push**	**$80,146.00**	**$4,007.30**

Item		**Unit Cost**		**Est. No. of Units**		**Total Est. Cost**
MOB/DEMOB						
Mob/Demob Geoprobe	$	5,950.00	each	1	$	5,950.00
DRILL RIG AND CREW						
Geoprobe Unit w/ Operator	$	1,400.00	day	46	$	64,400.00
Macro Core Samples	$	9.00	sample	414	$	3,726.00
Discreet GW sampler with 1 inch screen	$	35.00	each	69	$	2,415.00
55-Gallon DOT Drum	$	55.00	ea	10	$	550.00
Borehole abandonment	$	1.50	foot	2070	$	3,105.00
Subtotal-Subcontract Price					**$**	**80,146.00**
Subcontract Management Fee*					**$**	**4,007.30**
TOTAL					**$**	**84,153.30**

* Subcontract Management Fee of 5% on Subcontracts over $10,000

Schedule 2.11 (f)

Unit Price Subcontracts
Work Assignment Number D004437-30

Name of Subcontractor **Mitkem**
Services to be Performed **Laboratory**
Subcontract Price **$32,636.00**
Management Fee **$ 1,631.80**

	Analysis*	Method	# of Samples	Unit Cost $	Ext. Cost $
	Aqueous				
1	TCL VOCs	EPA SOW OLM04.3	132	$ 138.00	$18,216.00
2	TCL VOCs	EPA SOW OLC03.2	31	$ 69.00	$ 2,139.00
3	[1]Nitrate/Nitrite	353.2	23	$ 40.00	$ 920.00
4	Sulfate	375.4	23	$ 20.00	$ 460.00
5	Chloride	325.3	23	$ 15.00	$ 345.00
6	Alkalinity	310.1	23	$ 5.00	$ 115.00
7	Total organic carbon	EPA 415.1/415.2	23	$ 30.00	$ 690.00
8	Methane, ethane, ethene	RSK 175	31	$ 75.00	$ 2,325.00
	Aqueous MS/MSD				
9	TCL VOCs MS/MSD	EPA SOW OLM04.3	8	$ 138.00	$ 1,104.00
10	TCL VOCs MS/MSD	EPA SOW OLC03.2	2	$ 69.00	$ 138.00
	IDW				
11	Full TCLP		8	$ 628.00	$ 5,024.00
12	RCRA characteristics (ignitability, corrosivity, reactivity)		8	$ 85.00	$ 680.00
13	PCB	8082	8	$ 60.00	$ 480.00

Subtotal-Subcontract Price **$32,636.00**

Subcontract Management Fee* **$1,631.80**

TOTAL **$34,267.80**

* A subcontract management fee of 5% has been included for M/WBE subcontracts.

Schedule 2.11 (g) - Summary

Monthly Cost Control Report
Summary of Fiscal Information

Engineer Camp Dresser & McKee
Contract No. D004437
Project Name Pride Solvent & Chemical
Work Assignment No. D004437-30
Summary of Tasks
Percentage Completed

Date Prepared _____
Billing Period _____
Payment No. _____ **Invoice No.** _____

Expenditure Category	*A*	*B*	*C*	*D*	*E*	*F*	*G*	*H*
	Costs Claimed This Period	*Paid to Date*	*Total Disallowed to Date*	*Total Costs Incurred to Date (A+B+C)*	*Estimated Costs to Completion*	*Estimated Total Work Assignment Price (A+B+E)*	*Approved Budget*	*Estimated Under/Over (G-F)*
1. Direct Salary Costs	$0	$0	$0	$0			$99,968	
2. Indirect Costs - '167.9%	$0	$0	$0	$0			$167,846	
3. Subtotal Direct Salary Costs and Indirect Costs	$0	$0	$0	$0			$267,813	
4. Travel	$0	$0	$0	$0			$28,376	
5. Other Non-Salary Costs	$0	$0	$0	$0			$40,839	
6. Subtotal Direct Non-Salary Costs	$0	$0	$0	$0			$69,215	
7. Subcontractors	$0	$0	$0	$0			$245,312	
7a. Subcontract Mgt. Fee	$0	$0	$0	$0			$11,765	
8. Total Work Assignment Cost	$0	$0	$0	$0			$594,104	
9. Fixed Fee	$0	$0	$0	$0			$18,747	
10. Total Work Assignment Price	$0	$0	$0	$0			$612,851	

Project Manager (Engineer) Seth Kellogg

Date _____

Schedule 2.11 (g)

Monthly Cost Control Report
Summary of Fiscal Information

Engineer Camp Dresser & McKee
Contract No. D004437
Project Name Pride Solvent & Chemical
Work Assignment No. D004437-30
Task #/Name Task 1 - Work Plan Development
Complete 0%

Date Prepared
Billing Period
Invoice No.

Expenditure Category	*A* *Costs Claimed This Period*	*B* *Paid to Date*	*C* *Total Disallowed to Date*	*D* *Total Costs Incurred to Date (A+B+C)*	*E* *Estimated Costs to Completion*	*F* *Estimated Total Work Assignment Price (A+B+E)*	*G* *Approved Budget*	*H* *Estimated Under/Over (G-F)*
1. Direct Salary Costs	$0	$0	$0	$0			$8,312	
2. Indirect Costs - '167.9%	$0	$0	$0	$0			$13,956	
3. Subtotal Direct Salary Costs and Indirect Costs	$0	$0	$0	$0			$22,268	
4. Travel	$0	$0	$0	$0			$206	
5. Other Non-Salary Costs	$0	$0	$0	$0			$1,100	
6. Subtotal Direct Non-Salary Costs	$0	$0	$0	$0			$1,306	
7. Subcontractors	$0	$0	$0	$0			$0	
7a. Subcontract Mgt. Fee	$0	$0	$0	$0			$0	
8. Total Work Assignment Cost	$0	$0	$0	$0			$23,573	
9. Fixed Fee	$0	$0	$0	$0			$1,559	
10. Total Work Assignment Price	$0	$0	$0	$0			$25,132	

Project Manager (Engineer) Seth Kellogg **Date**

Engineer Camp Dresser & McKee
Contract No. D004437
Project Name Pride Solvent & Chemical
Work Assignment No. D004437-30
Task #/Name Task 2-Existing Data Tabulation and Evaluation
Complete 0%

Date Prepared _____
Billing Period _____
Invoice No. _____

	A	*B*	*C*	*D*	*E*	*F*	*G*	*H*
	Costs Claimed This Period	***Paid to Date***	***Total Disallowed to Date***	***Total Costs Incurred to Date (A+B+C)***	***Estimated Costs to Completion***	***Estimated Total Work Assignment Price (A+B+E)***	***Approved Budget***	***Estimated Under/Over (G-F)***
1. Direct Salary Costs	$0	$0	$0	$0			$7,653	
2. Indirect Costs 167.9%	$0	$0	$0	$0			$12,849	
3. Subtotal Direct Salary Costs and Indirect Costs	$0	$0	$0	$0			$20,502	
4. Travel	$0	$0	$0	$0			$0	
5. Other Non-Salary Costs	$0	$0	$0	$0			$1,100	
6. Subtotal Direct Non-Salary Costs	$0	$0	$0	$0			$1,100	
7. Subcontractors	$0	$0	$0	$0			$0	
7a. Subcontract Mgt. Fee	$0	$0	$0	$0			$0	
8. Total Work Assignment Cost	$0	$0	$0	$0			$21,602	
9. Fixed Fee	$0	$0	$0	$0			$1,435	
10. Total Work Assignment Price	$0	$0	$0	$0			$23,037	

Project Manager (Engineer) Seth Kellogg

Date _____

Schedule 2.11 (g)

Monthly Cost Control Report
Summary of Fiscal Information

Engineer Camp Dresser & McKee
Contract No. D004437
Project Name Pride Solvent & Chemical
Work Assignment No. D004437-30
Task #/Name Task 3 - Citizen Participation
Complete 0%

Date Prepared _____
Billing Period _____
Invoice No. _____

Expenditure Category	*A* *Costs Claimed This Period*	*B* *Paid to Date*	*C* *Total Disallowed to Date*	*D* *Total Costs Incurred to Date (A+B+C)*	*E* *Estimated Costs to Completion*	*F* *Estimated Total Work Assignment Price (A+B+E)*	*G* *Approved Budget*	*H* *Estimated Under/Over (G-F)*
1. Direct Salary Costs	$0	$0	$0	$0			$1,606	
2. Indirect Costs 167.9%	$0	$0	$0	$0			$2,696	
3. Subtotal Direct Salary Costs and Indirect Costs	$0	$0	$0	$0			$4,302	
4. Travel	$0	$0	$0	$0			$103	
5. Other Non-Salary Costs	$0	$0	$0	$0			$150	
6. Subtotal Direct Non-Salary Costs	$0	$0	$0	$0			$253	
7. Subcontractors	$0	$0	$0	$0			$0	
7a. Subcontract Mgt. Fee	$0	$0	$0	$0			$0	
8. Total Work Assignment Cost	$0	$0	$0	$0			$4,554	
9. Fixed Fee	$0	$0	$0	$0			$301	
10. Total Work Assignment Price	$0	$0	$0	$0			$4,855	

Project Manager (Engineer) Seth Kellogg **Date** _____

Schedule 2.11 (g)

Monthly Cost Control Report
Summary of Fiscal Information

Engineer Camp Dresser & McKee
Contract No. D004437
Project Name Pride Solvent & Chemical
Work Assignment No. D004437-30
Task #/Name Task 4 - Mobilization and Demobilization
Complete 0%

Date Prepared
Billing Period
Invoice No.

Expenditure Category	*A* *Costs Claimed This Period*	*B* *Paid to Date*	*C* *Total Disallowed to Date*	*D* *Total Costs Incurred to Date (A+B+C)*	*E* *Estimated Costs to Completion*	*F* *Estimated Total Work Assignment Price (A+B+E)*	*G* *Approved Budget*	*H* *Estimated Under/Over (G-F)*
1. Direct Salary Costs	$0	$0	$0	$0			$2,925	
2. Indirect Costs 167.9%	$0	$0	$0	$0			$4,912	
3. Subtotal Direct Salary Costs and Indirect Costs	$0	$0	$0	$0			$7,837	
4. Travel	$0	$0	$0	$0			$206	
5. Other Non-Salary Costs	$0	$0	$0	$0			$170	
6. Subtotal Direct Non-Salary Costs	$0	$0	$0	$0			$376	
7. Subcontractors	$0	$0	$0	$0			$0	
7a. Subcontract Mgt. Fee	$0	$0	$0	$0			$0	
8. Total Work Assignment Cost	$0	$0	$0	$0			$8,212	
9. Fixed Fee	$0	$0	$0	$0			$549	
10. Total Work Assignment Price	$0	$0	$0	$0			$8,761	

Project Manager (Engineer) Seth Kellogg **Date**

Schedule 2.11 (g)

Monthly Cost Control Report
Summary of Fiscal Information

Engineer Camp Dresser & McKee
Contract No. D004437
Project Name Pride Solvent & Chemical
Work Assignment No. D004437-30
Task #/Name Task 5 - Site Investigation
Complete 0%

Date Prepared
Billing Period
Invoice No.

Expenditure Category	*A* *Costs Claimed This Period*	*B* *Paid to Date*	*C* *Total Disallowed to Date*	*D* *Total Costs Incurred to Date (A+B+C)*	*E* *Estimated Costs to Completion*	*F* *Estimated Total Work Assignment Price (A+B+E)*	*G* *Approved Budget*	*H* *Estimated Under/Over (G-F)*
1. Direct Salary Costs	$0	$0	$0	$0			$49,883	
2. Indirect Costs 167.9%	$0	$0	$0	$0			$83,754	
3. Subtotal Direct Salary Costs and Indirect Costs	$0	$0	$0	$0			$133,637	
4. Travel	$0	$0	$0	$0			$27,862	
5. Other Non-Salary Costs	$0	$0	$0	$0			$36,119	
6. Subtotal Direct Non-Salary Costs	$0	$0	$0	$0			$63,981	
7. Subcontractors	$0	$0	$0	$0			$245,312	
7a. Subcontract Mgt. Fee	$0	$0	$0	$0			$11,765	
8. Total Work Assignment Cost	$0	$0	$0	$0			$454,695	
9. Fixed Fee	$0	$0	$0	$0			$9,355	
10. Total Work Assignment Price	$0	$0	$0	$0			$464,049	

Project Manager (Engineer) Seth Kellogg

Date

Schedule 2.11 (g)

Monthly Cost Control Report
Summary of Fiscal Information

Engineer Camp Dresser & McKee
Contract No. D004437
Project Name Pride Solvent & Chemical
Work Assignment No. D004437-30
Task #/Name Task 6 - Remedial Investigation Report
Complete 0%

Date Prepared _____
Billing Period _____
Invoice No. _____

Expenditure Category	*A* *Costs Claimed This Period*	*B* *Paid to Date*	*C* *Total Disallowed to Date*	*D* *Total Costs Incurred to Date (A+B+C)*	*E* *Estimated Costs to Completion*	*F* *Estimated Total Work Assignment Price (A+B+E)*	*G* *Approved Budget*	*H* *Estimated Under/Over (G-F)*
1. Direct Salary Costs	$0	$0	$0	$0			$17,477	
2. Indirect Costs	$0	$0	$0	$0			$29,345	
3. Subtotal Direct Salary Costs and Indirect Costs	$0	$0	$0	$0			$46,822	
4. Travel	$0	$0	$0	$0			$0	
5. Other Non-Salary Costs	$0	$0	$0	$0			$1,100	
6. Subtotal Direct Non-Salary Costs	$0	$0	$0	$0			$1,100	
7. Subcontractors	$0	$0	$0	$0			$0	
7a. Subcontract Mgt. Fee	$0	$0	$0	$0			$0	
8. Total Work Assignment Cost	$0	$0	$0	$0			$47,922	
9. Fixed Fee	$0	$0	$0	$0			$3,278	
10. Total Work Assignment Price	$0	$0	$0	$0			$51,200	

Project Manager (Engineer) Seth Kellogg **Date** _____

Schedule 2.11 (g)

Monthly Cost Control Report
Summary of Fiscal Information

Engineer Camp Dresser & McKee
Contract No. D004437
Project Name Pride Solvent & Chemical
Work Assignment No. D004437-30
Task #/Name Task 7 -Feasibility Study
Complete 0%

Date Prepared _____
Billing Period _____
Invoice No. _____

Expenditure Category	*A* *Costs Claimed This Period*	*B* *Paid to Date*	*C* *Total Disallowed to Date*	*D* *Total Costs Incurred to Date (A+B+C)*	*E* *Estimated Costs to Completion*	*F* *Estimated Total Work Assignment Price (A+B+E)*	*G* *Approved Budget*	*H* *Estimated Under/Over (G-F)*
1. Direct Salary Costs	$0	$0	$0	$0			$12,111	
2. Indirect Costs	$0	$0	$0	$0			$20,334	
3. Subtotal Direct Salary Costs and Indirect Costs	$0	$0	$0	$0			$32,446	
4. Travel	$0	$0	$0	$0			$0	
5. Other Non-Salary Costs	$0	$0	$0	$0			$1,100	
6. Subtotal Direct Non-Salary Costs	$0	$0	$0	$0			$1,100	
7. Subcontractors	$0	$0	$0	$0			$0	
7a. Subcontract Mgt. Fee	$0	$0	$0	$0			$0	
8. Total Work Assignment Cost	$0	$0	$0	$0			$33,546	
9. Fixed Fee	$0	$0	$0	$0			$2,271	
10. Total Work Assignment Price	$0	$0	$0	$0			$35,817	

Project Manager (Engineer) Seth Kellogg

Date _____

Cost Control Report for Subcontracts

Engineer Camp Dresser & McKee
Contract No. D004437
Project Name Pride Solvent & Chemical
Work Assignment No. D004437-30

Date Prepared
Billing Period
Invoice No.

Subcontract Name	*A* *Subcontract Costs Claimed this Application Inc. Resubmittals*	*B* *Subcontract Costs Approved for Payment on Previous Applications*	*C* *Total Subcontract Costs to Date (A plus B)*	*D* *Subcontract Approved Budget*	*E* *Management Fee Budget*	*F* *Management Fee Paid*	*G* *Total Costs to Date (C plus F)*
1. Ken Schider	$0	$0	$0	$1,800	$0	$0	$0
2. SeaCoast Environmental	$0	$0	$0	$34,415	$1,721	$0	$0
3. Om P. Popli, P.E., L.S., P.C.	$0	$0	$0	$8,215	$0	$0	$0
4. Nancy Potak	$0	$0	$0	$2,540	$127	$0	$0
5. Land, Air, Water Environmental	$0	$0	$0	$85,560	$4,278	$0	$0
6. Zebra Environmental	$0	$0	$0	$80,146	$4,007	$0	$0
7. Mitkem	$0	$0	$0	$32,636	$1,632	$0	$0
TOTALS	$0	$0	$0	$245,312	$11,765	$0	$0

Project Manager (Engineer) Seth Kellogg **Date**

Schedule 2.11(h)
Monthly Cost Control Report
Summary of Labor Hours

Number of Direct Labor Hours Expended to Date/Estimated Number of Direct Labor Hours to Completion

Engineer/Contract # D004437
Project Name Pride Solvent & Chemical
Work Assignment No. D004437-30

Date Prepared _____
Billing Period _____
Invoice No. _____

NSPE Labor Classification	*IX Exp/Est*	*VIII Exp/Est*	*VII Exp/Est*	*VI Exp/Est*	*V Exp/Est*	*IV Exp/Est*	*III Exp/Est*	*II Exp/Est*	*I Exp/Est*	*Admin.*	*Total No. of Direct Labor Hrs. Exp/Est*
Task 1	0 / 24	0 / 2	0 / 0	0 / 80	0 / 0	0 / 64	0 / 0	0 / 20	0 / 0	0 / 16	0 / 206
Task 2	0 / 8	0 / 12	0 / 2	0 / 40	0 / 0	0 / 100	0 / 0	0 / 40	0 / 0	0 / 8	0 / 210
Task 3	0 / 0	0 / 2	0 / 0	0 / 20	0 / 0	0 / 12	0 / 0	0 / 0	0 / 4	0 / 2	0 / 40
Task 4	0 / 0	0 / 0	0 / 0	0 / 14	0 / 0	0 / 16	0 / 48	0 / 0	0 / 16	0 / 0	0 / 94
Task 5	0 / 8	0 / 6	0 / 0	0 / 60	0 / 0	0 / 116	0 / 1078	0 / 0	0 / 520	0 / 0	0 / 1788
Task 6	0 / 12	0 / 28	0 / 0	0 / 80	0 / 0	0 / 130	0 / 150	0 / 0	0 / 92	0 / 16	0 / 508
Task 7	0 / 12	0 / 36	0 / 0	0 / 120	0 / 0	0 / 0	0 / 60	0 / 0	0 / 60	0 / 16	0 / 304
Total Hours	0 / 64	0 / 86	0 / 2	0 / 414	0 / 0	0 / 438	0 / 1336	0 / 60	0 / 692	0 / 58	0 / 3150

Appendix C

Subcontractor Price Comparisons

Cost Review for Work Plan or Amendment

Contractor Name: CDM **Date:**
WA # and Name: #30 Pride Solvent and Chemical Company **Reviewer:**

	GENERAL COST REVIEW CHECKLIST	Yes	No	Comments
	A complete set of 2.11 Schedules (a) through (h) is attached.	X		
	For grouped work assignments, Schedule 2.11s are broken down by site.			NA
1.	**Schedule 2.11(b) - Direct Labor**			
	Average reimbursement rates are used for each year. Future years escalate 3%	X		
	Hours are segregated by year.	X		
	Total cost for each NSPE level is shown.	X		
	Total direct labor costs match amounts on Schedule 2.11(a).	X		
	The Principal's (NSPE level 9) labor hours charged to WA are less than 2% of the total.	X		
	Total labor hours match hours on Schedule 2.11(h).	X		
2.	**Schedule 2.11(b-1) - Direct Administrative Labor Hours**			
	Breakdown of Schedule 2.11(b-1) is reasonable, i.e., admin LOE is within acceptable guideline of <4% of overall WA LOE. Justification is attached for any exceedance.	X		
3.	**Schedules 2.11(c) and (d) - Direct Non-Salary Costs**			
	Rates listed in Schedule 2.11(c) are consistent with contract.	X		
	Rates for in-house and/or miscellaneous costs match contract Schedule 2.10(b).	X		
	Quotes are included for any non-contract item (<u>including</u> equipment purchases & rentals; <u>excluding</u> air fare) >$1k. If sufficient number of quotes are unavailable, an engineer's estimate must be provided. The low quote has been selected.	X		
	All costs are allowable, e.g., office telephone and office shipping cannot be reimbursed as a direct cost if they're included in ICR. If they're not in ICR, they are included in 2.10(b) or 2.10(c). Field costs must be receipted.	X		
	Appropriate lodging/per diem/mileage rates are used.	X		
	Schedule 2.11(d)1 - All equipment purchased is supported by cost justification that's acceptable to the CM. Equipment is to be maintained by the contractor or turned over to DEC, and it must be added to contractor's inventory list (include a revised copy).	X		
	Schedule 2.11(d)2 - Rates for consultant-owned equipment match Schedule 2.10(c).	X		
	Schedule 2.11(d)4 - Includes equipment to be used only on this WA (such as a blower purchased to upgrade SVE system).			NA
	Other direct costs (no. of field days, lodging, and field equipment usage) are reasonable based on field work schedule or supporting documentation.	X		
	Total of direct non-salary costs matches the amount on Schedule 2.11(a).	X		
4.	**Schedule 2.11(e) - Cost-plus-fixed-fee subcontracts**			
	Proposed subconsultant is on standby or has DEC-approved rates with another standby consultant. Otherwise, financial information required for cost analysis must be submitted.	X		

	Schedule 2.11(e) - Continued	Yes	No	Comments
	Standby subcontract is active and rates (salary, direct and indirect costs, and fixed fee) match contract rates.	X		
	A breakdown of direct non-salary costs in the form of additional Schedule 2.11s is attached, if appropriate.			NA
	Total subcontract cost matches amount on Schedule 2.11(a).	X		
	Subcontractor has justified/obtained adequate quotes for any further subcontracted work.	X		
	Subcontractor certification(s) have been submitted.	X		
5.	**Schedule 2.11(f) - Unit Price Subcontracts**			
	There are quotes for non-standby subcontracts >$1k. Bids are comparable (quantities and items) and provide unit costs plus job total. If sufficient number of quotes are unavailable, an engineer's estimate must be provided. The low quote has been selected.			NA
	Standby Drillers (Two phase process) - Costs from at least 3 standbys (or additional quotes from non-standby drillers) are attached. Proper unit costs and mobilization/demobilization costs are used. The low quote has been selected.	X		
	M/WBE - Cost reasonableness of sole/single source M/WBE contracts <$10K are documented by an engineer's estimate.			NA
	Justification attached for subcontracts >$100,000 supporting a determination not to design and competitively bid the work. Response-type activities (drum removals, other construction-type activities) must be competitively bid, unless otherwise approved			NA
	Correct management fee is calculated only on non-professional unit priced subs >$10k and M/WBE firms from $1. (Management fee is not allowed on professional engineering firms, architects, or surveyors, unless the contract specifically allows it.)	X		
	Standby Labs and Data Validators (rotate use) - Unit cost match unit costs in contract.	X		
	Subcontractor certification(s) have been submitted.			
6.	**Schedule 2.11(g) - Cost Control Report**			
	Individual 2.11(g)s equal Summary 2.11(g) and costs match those on 2.11(a).	X		
	PMWP or amendment development costs are within 5% of the total WA or amendment costs. Acceptable justification has been submitted if the percentage exceeds 5%.	X		
	PMWP or amendment development costs are limited to preparing a PMWP or amendment. Additional sub-tasks, if included, have been conceptually approved.	X		
7.	**Schedule 2.11(g) Supplemental - Cost Control Report (subs)**			
	Schedules include all applicable subcontracts and management fees (for unit price only).	X		
8.	**Schedule 2.11(a)**			
	Rates for indirect and fixed fee match contract rates.	X		
	All numbers rolled up into Schedule 2.11(a) add up.	X		
9.	**Additional Cost Information/Comments**			

Rev. 05/27/08

WELL DRILLERS

LAWES						Delta						Aztech					
Item		**Unit Cost**	**Unit**	**Est. No. of Units**	**Total Est. Cost**	**Item**		**Unit Cost**	**Unit**	**Est. No. of Units**	**Total Est. Cost**	**Item**		**Unit Cost**	**Unit**	**Est. No. of Units**	**Total Est. Cost**
1. GENERAL						**1. GENERAL**						**1. GENERAL**					
1a	Mobilization (includes construct/deconstruct decon pad)	$ 2,200.00	lump	1	$ 2,200.00	1a	Mobilization (includes construct/deconstruct decon pad)	$ 20,000.00	lump	1	$ 20,000.00	1a	Mobilization (includes construct/deconstruct decon pad and hydrant permit)	$ 7,715.00	lump	1	$ 7,715.00
1b	Personal protective equip.	$ 25.00	day	40	$ 1,000.00	1b	Personal protective equipment	$ 50.00	day	40	$ 2,000.00	1b	Personal protective equipment	$ -	day	40	$ -
													Per diem	$ 265.00	day	40	$ 10,600.00
1c	Soft dig/Vactor	$ 325.00	each	7	$ 2,275.00	1c	Hand Dig	$ 350.00	each	7	$ 2,450.00	1c	Hand Dig	$ 405.00	each	7	$ 2,835.00
1d	Steam Cleaning	$ 200.00	hour	21	$ 4,200.00	1d	Steam Cleaning	$ 180.00	hour	21	$ 3,780.00	1d	Steam Cleaning	$ 135.00	hour	21	$ 2,835.00
1e	Steam cleaner rental	$ 100.00	day	40	$ 4,000.00	1e	Steam cleaner rental	$ 25.00	day	40	$ 1,000.00	1e	Steam cleaner rental	$ 95.00	day	40	$ 3,800.00
1f	55-Gallon Drums (contain cuttings)	$ 75.00	each	50	$ 3,750.00	1f	55-Gallon Drums (contain cuttings)	$ 50.00	each	50	$ 2,500.00	1f	55-Gallon Drums (contain cuttings)	$ 70.00	each	50	$ 3,500.00
1g	Transport/Handling of IDW (per drum)	$ 80.00	each	150	$ 12,000.00	1g	Transport/Handling of IDW (per drum)	$ 15.00	each	150	$ 2,250.00	1g	Transport/Handling of IDW (per drum)	$ 55.00	each	150	$ 8,250.00
							Transfer cuttings to waterproff roll-off	$ 280.00	hour	28	$ 7,840.00		Transfer cuttings to waterproff roll-off	$ 55.00	hour	56	$ 3,080.00
1h	Well Development	$ 350.00	hour	56	$ 19,600.00	1h	Well Development	$ 180.00	hour	56	$ 10,080.00	1h	Well Development	$ 157.00	hour	56	$ 8,792.00
1i	Standby rig and crew	$ 250.00	hour	1	$ 250.00	1i	Standby 2-man crew	$ 150.00	hour	1	$ 150.00	1i	Standby 2-man crew	$ 110.00	hour	1	$ 110.00
	2-man crew	$ 125.00	hour	1	$ 125.00		Standby 3-man crew	$ 250.00	hour	1	$ 250.00		Standby 3-man crew	$ 150.00	hour	1	$ 150.00
													skid steer (end of job only)	$ 1,175.00	week	1	$ 1,175.00
													plastic sheeting	$ 110.00	roll	2	$ 220.00
	Water Tanker	no charge	day	20			Water Tanker	$ 300.00	day	40	$ 12,000.00		Generator	$ 45.00	day	40	$ 1,800.00
2. Monitoring Well Installation						**2. Monitoring Well Installation**						**2. Monitoring Well Installation**					
2a	4.25 inch diameter hollow stem	$ 21.00	foot	360	$ 7,560.00	2a	4.25 inch diameter hollow stem	$ 20.00	foot	360	$ 7,200.00	2a	4.25 inch diameter hollow stem auger 0-50'	$ 14.00	foot	200	$ 2,800.00
													4.25 inch diameter hollow stem auger 50-100'	$ 16.50	foot	160	$ 2,640.00
2c	4-inch ID Mud Rotary drilling (90-120 feet)	$ 30.00	foot	90	$ 2,700.00	2c	Auger through casing	$ 150.00	foot	90	$ 13,500.00	2c	Mud rotary through casing	$ 45.00	foot	90	$ 4,050.00
2j	6.25 inch diameter hollow stem auger	$ 22.00	each	270	$ 5,940.00	2j	10-inch Barber drilling	$ 175.00	each	270	$ 47,250.00	2j	6.25 inch diameter hollow stem auger (0-50')	$ 14.00	each	150	$ 2,100.00
													6.25 inch diameter hollow stem auger (50-100')	$ 16.50	feet	120	$ 1,980.00
	Split spoon sampling (0 to 100 feet)	$ 30.00	each	15	$ 450.00		Split spoon sampling (50 to 100 feet)	$ 50.00	each	15	$ 750.00		Split spoon sampling (50 to 100 feet)	$ 35.00	each	15	$ 525.00
	Split spoon sampling (100 to 150 feet)	$ 40.00	each	12	$ 480.00		Split spoon sampling (100 to 150 feet)	$ 60.00	each	12	$ 720.00		Split spoon sampling (100 to 150 feet)	$ 40.00	each	12	$ 480.00
3. Materials						**3. Materials**						**3. Materials**					
3a	4 inch diameter carbon steel casing	$ 18.00	foot	270	$ 4,860.00	3a	10 inch diameter carbon steel casing	$ 82.00	foot	270	$ 22,140.00	3a	4 inch diameter carbon steel casing	$ 17.00	foot	270	$ 4,590.00
3b	2-inch dia., Schedule 40 PVC well casing	$ 10.00	foot	650	$ 6,500.00	3b	2-inch dia., Schedule 40 PVC well casing	$ 4.00	foot	650	$ 2,600.00	3b	2-inch dia., Schedule 40 PVC well casing	$ 4.00	foot	650	$ 2,600.00
3c	2-inch dia., Schedule 40 PVC, 10-slot well screen	$ 10.00	foot	70	$ 700.00	3c	2-inch dia., Schedule 40 PVC, 10-slot well screen	$ 5.00	foot	70	$ 350.00	3c	2-inch dia., Schedule 40 PVC, 10-slot well screen	$ 5.00	foot	70	$ 350.00
3d	Well Completion Materials (sand pack)	$ 8.00	foot	84	$ 672.00	3d	Well Completion Materials (sand pack)	$ 8.00	foot	84	$ 672.00	3d	Well Completion Materials (sand pack)	$ 5.00	foot	84	$ 420.00
3e	Well Completion Materials (bentonite seal)	$ 12.00	foot	14	$ 168.00	3e	Well Completion Materials (bentonite seal)	$ 25.00	foot	14	$ 350.00	3e	Well Completion Materials (bentonite seal)	$ 9.00	foot	14	$ 126.00
3f	Well Completion Materials (grout)	$ 5.00	foot	552	$ 2,760.00	3f	Well Completion Materials (grout)	$ 15.00	foot	552	$ 8,280.00	3f	Well Completion Materials (grout) in 4-inch augers	$ 7.00	foot	345	$ 2,415.00
													Well Completion Materials (grout) in wells through 4-inch casing	$ 3.00	foot	270	$ 810.00
3g	Grout for carbon steel casing	$ 6.00	foot	270	$ 1,620.00	3g	Bentonite Grout for carbon steel casing	$ 26.00	foot	270	$ 7,020.00	3g	Grout for carbon steel casing	$ 16.00	foot	270	$ 4,320.00
3h	Well Surface Completion (protective casing, well caps, tags, concrete pad, locking cap + key)	$ 250.00	each	7	$ 1,750.00	3h	Well Surface Completion (protective casing, well caps, tags, concrete pad, locking cap + key)	$ 300.00	each	7	$ 2,100.00	3h	Well Surface Completion (protective casing, well caps, tags, concrete pad, locking cap + key)	$ 125.00	each	7	$ 875.00
TOTAL					**$85,560.00**	**TOTAL**					**$ 177,232.00**	**TOTAL**					**$ 85,943.00**

ANALYTICAL LABORATORIES

Chemtech

	ITEM	METHOD	QUANTITY	TURNAROUND TIME	REPORTING	UNIT PRICE	SUBTOTAL
	Aqueous						
1	TCL VOCs	EPA SOW OLM04.3	122	24-hr	Category A	$178.50	$ 21,777.00
2	TCL VOCs	EPA SOW OLC03.2	31	21-Day	Superfund	$120.75	$ 3,743.25
3	Anions Group 1 (nitrate/nitrite, sulfate, Chlo	IC 300	23	21-Day	Category A	$ 63.00	$ 1,449.00
5	Sulfate- See above		23	21-Day	Category A		
6	Chloride- See above		23	21-Day	Category A		
7	Alkalinity	SM2320 B	23	21-Day	Category A	$15.75	$ 362.25
8	Total organic carbon	SM5310 B	23	21-Day	Category A	$45	$ 1,035.00
9	Methane, ethane, ethene	3810	23	21-Day	Category A	$85.00	$ 1,955.00
	Aqueous MS/MSD						
10	TCL VOCs MS/MSD	EPA SOW OLM04.3	8	24-hr	Category A	$178.50	$ 1,428.00
11	TCL VOCs MS/MSD	EPA SOW OLC03.2	2	21-Day	Superfund	$ 126.00	$ 252.00
	IDW						
12	Full TCLP		8	21-Day	Category A	$578.75	$ 4,630.00
13	RCRA characteristics (ignitability, corrosivity, reactivity)		8	21-Day	Category A	$ 84.00	$ 672.00
14	PCB	8082	8	21-Day	Category A	$63	$ 504.00
					Subtotal-Subcontract Price		**$ 37,807.50**

EPA issued MUR (Method update rule) changing methodology approaches

ASP -MS/MSD Frequency rules (Each Group of samples of similar matrix , ONCE
*Each Sample delivery Group received or
*Each 20 field samples or
* Each 7 Calendar day during which field samples in a SDG were received

Mitkem

	ITEM	METHOD	QUANTITY	TURNAROUND TIME	REPORTING	UNIT PRICE	SUBTOTAL
	Aqueous						
1	TCL VOCs	EPA SOW OLM04.3	122	24-hr	Category A	$ 138.00	$ 16,836.00
2	TCL VOCs	EPA SOW OLC03.2	31	21-Day	Superfund	$ 69.00	$ 2,139.00
3	[1]Nitrate/Nitrite	353.2	23	21-Day	Category A	$ 40.00	$ 920.00
5	Sulfate	375.4	23	21-Day	Category A	$ 20.00	$ 460.00
6	Chloride	325.3	23	21-Day	Category A	$ 15.00	$ 345.00
7	Alkalinity	310.1	23	21-Day	Category A	$ 5.00	$ 115.00
8	Total organic carbon	EPA 415.1/415.2	23	21-Day	Category A	$ 30.00	$ 690.00
9	Methane, ethane, ethene	RSK 175	23	21-Day	Category A	$ 75.00	$ 1,725.00
	Aqueous MS/MSD						
10	TCL VOCs MS/MSD	EPA SOW OLM04.3	8	24-hr	Category A	$ 138.00	$ 1,104.00
11	TCL VOCs MS/MSD	EPA SOW OLC03.2	2	21-Day	Superfund	$ 69.00	$ 138.00
	IDW						
12	Full TCLP		8	21-Day	Category A	$ 628.00	$ 5,024.00
13	RCRA characteristics (ignitability, corrosivity, reactivity)		8	21-Day	Category A	$ 85.00	$ 680.00
14	PCB	8082	8	21-Day	Category A	$ 60.00	$ 480.00
					Subtotal-Subcontract Price		**$ 30,656.00**

1 - Price includes analysis and reporting of both nitrate and nitrite

Pride Solvents and Chemical
Data Validator Subcontractor Quote Comparison

Data Validation Services	Amount	Units	Data Validation Services	Nancy Potak	ChemWorld
TCL VOCs SW-846 Method 8260	132	per sample	$26.25	$11.55	$22.66
TCL VOCs SW-846 Method 8260	23	per sample	$26.25	$11.55	$22.66
Nitrate/Nitrite	23	per sample	$10.50	$4.20	$6.18
Sulfate	23	per sample	$5.25	$2.10	$3.09
Chloride	23	per sample	$5.25	$2.10	$3.09
Alkalinity	23	per sample	$5.25	$2.10	$3.09
Total organic carbon	23	per sample	$5.25	$2.10	$4.12
Methane, ethane, ethene	23	per sample	$10.00	$20.00	$12.00
			$5,023.25	**$2,540.05**	**$4,238.41**

** Items 1 through 7 from standby contract prices and include the 5% contract extension markup

SURVEYORS			
Company	YEC	DeKennip	Popli
Cost	$11,736.30	$12,250.00	$8,214.54

All include list of coordinates and CAD map.
YEC requests our base CAD map to put the points on;
others made no mention of this.

IDW TRANSPORTATION AND DISPOSAL																				
IDW handling - VOC/chlorinated VOC contaminants	Estimated quantity	Unit	SeaCoast Environmental Assocs., Inc.		Innovative Recycling Technologies, Inc.			Miller Environmental Group			EnviroSmart	H&S Environmental, Inc	AWT		DSI Inc.	
			Unit Rate	Subtotal	Unit Rate		Subtotal	Unit Rate		Subtotal	Declined to bid	Declined to bid	Unit Rate	Subtotal		
Supply 21,000 gallon frac tank																
mobilization	1	each	$890	$890	$800		$800	$700.00		$700.00			$775.00	$775.00	$600	$600
rental	5	month	$1,100	$5,500	$1,100		$5,500	$1,500.00		$7,500.00			$1,620.00	$8,100.00	$1,500	$7,500
cleaning	1	each	$1,600	$1,600	$1,800		$1,800	$1,500.00		$1,500.00			$2,100.00	$2,100.00	$2,000	$2,000
demobilization	1	each	$890	$890	$800		$800	$700.00		$700.00			$775.00	$775.00	$600	$600
Handling transportation and disposal of water from tank																
non-hazardous	16,000	gallon	$0.44	$7,040	$0.41		$6,480	$0.53		$8,480.00			$0.58	$9,280.00	$0.65	$10,400
hazardous	0	gallon	$1.74	$	$1.75		$	$0.00		$0					$1.25	$0
Supply 20-cy water tight roll-offs																
mobilization/demobilization	3	each	$750	$2,250	$600		$1,800	$700.00		$2,100.00			$1,100.00	$3,300.00	$1,000	$3,000
rental	6	month	$425	$2,550	$350		$2,100	$750.00		$4,500.00			$450.00	$2,700.00	$1,050	$6,300
Drill cuttings/mud in roll-offs - pass "paint filter test" i.e. "dry"																
Handling/transportation - non-hazardous	3	load	$1,600	$4,800	$1,500		$4,500	$1,335.00	<10 % moisture	$4,005.00			$1,750.00	$5,250.00	$1,200	$3,600
Handling/transportation - hazardous	0	load	$2,400	$0	$0	[4]	$	$0		$0					$4,750	$0
Disposal - non-hazardous	40	ton	$76	$3,040	$40		$1,600	$107	<10 % moisture	$4,280.00			$43.00	$1,720.00	$43	$1,720
Disposal - hazardous	0	ton	$121	$0	$275	[1]22 ton min.	$	$0		$0					$300	$0
					$815	[2]22 ton min.										
Drill cuttings/mud in roll-offs - fail "paint filter test" i.e. free water present																
Handling/transportation - non-hazardous	3	load	$1,600	$4,800	$1,500		$4,500	$1,335.00	> 10% moister	$4,005.00			$1,750.00	$5,250.00	$1,200	$3,600
Handling/transportation - hazardous	0	load	$2,400	$	NA	[3]must be dry	lo	$0		$0					$4,760	$0
Disposal - non-hazardous	40	ton	$133	$5,320	$175		$7,000	$195	>10% moister	$7,800.00			$125.00	$5,000.00	$85	$3,400
Disposal - hazardous	0	ton	$178	$	NA	[3]must be dry	to	$0		$0					$475	$0
Drill cuttings/mud in drums																
Handling/transportation - non-hazardous	1	load	$950	$950	$250		$250	$1,050.00		$1,050.00			$640.00	$640.00	$375	$375
Handling/transportation - hazardous	0	load	$950	$	$250		$	$0		$0					$475	$0
Disposal - non-hazardous	10	each	$65	$650	$110		$1,100	$88.00		$880.00			$90.00	$900.00	$180	$1,800
Disposal - hazardous	0	each	$145	$	$375		$	$0.00		$0					$475	$0
Protective gear/debris																
Handling/transportation - non-hazardous	1	load	$950	$950	$250		$250	$600.00		$600.00			$640.00	$640.00	$375	$375
Handling/transportation - hazardous	0	load	$950	$	$250		$	$0		$0					$475	$0
Disposal - non-hazardous	10	each	$65	$650	$110		$1,100	$88.00		$880.00			$90.00	$900.00	$180	$1,800
Disposal - hazardous	0	each	$145	$	$375		$	$0.00		$0					$475	$0
Empty Used Drums																
Handling/transportation - non-hazardous	1	load	$150	$150	$250		$250	$600.00		$600.00			$640.00	$640.00	$375	$375
Disposal - non-hazardous	25	each	$9	$225	$20		$500	$15.00	for scrap	$375.00			$40.00	$1,000.00	$40	$1,000
							ea	$40.00	at TSDF	$1,000.00						
			TOTAL (roll-offs dry)	$32,135	TOTAL (roll-offs dry)		$29,630	TOTAL (roll-offs dry)		$38,150.00	Declined to bid	Declined to bid	TOTAL (roll-offs dry)	$38,720	TOTAL (roll-offs dry)	$41,445
			TOTAL (roll-offs wet)	$34,415	TOTAL (roll-offs wet)		$35,030	TOTAL (roll-offs wet)		$41,670.00			TOTAL (roll-offs wet)	$42,000	TOTAL (roll-offs wet)	$43,125
			includes PVC piping to drain rolloffs					totals assume empties are scrapped								

Proposes Kiln dust to control free water; Kiln dust adds $600 (deliv) plus $200 for 10 tons

1 - hazardous at less than 10X treatment standard
2 - hazardous at 10x treatment standard or more
3 - haz rolloffs must by "dry" or transferred to vactainer
4 - Transportation included

GEOPROBE

Company Name & Contact Information	Aztech Technologies, Inc Matthew Darcangelo, P.E. 5 McCrea Hill Road Ballston Spa, NY 12020 518-885-5383 f 518-885-5385 MDARCANGELO@AZTK.COM						Environmental Probing Investigations, Inc. Brian Kokot 18 Honerstown Road Cream Ridge, NJ 08514 609-758-9000 brian@environmentalprobing.com						Hydro Tech Environmental, Corp. Lewis Cardona 2171 Jericho Turnpike, Suite 345 Commack, NY 11725 (Office in Brooklyn, too) Commack: 631-462-5866 Brooklyn: 718-636-0800 f 631-462-5877 lcardona@hydrotechenvironmental.com						Zebra Environmental Corp. Matthew Ednie 10 Walker Way Albany, NY 12205 518-456-9922 f 518-456-4009 matt@zebraenv.com						Nothnagle Drilling, Inc. DECLINED TO BID Timothy Nothnagle 1821 Scottsville-Mumford Rd. Scottsville, NY 14546 585-538-2328 f 585-538-2357 TMN@NOTHNAGLEDRILLING.COM						SGS Environmental Services, Inc. DECLINED TO BID Art Becker 328 Stafford Forge Road West Creek, NJ 08092 609-294-1110 f 609-296-8970 art.becker@sgs.com						Pennington Environmental NO RESPONSE Roger Edens 443 Osborne Avenue Moorisville, PA 19067 215-428-0196 f 215-428-0225 penningtonenvironmentalt@gmail.com						SJB NO RESPONSE Stan Blas 5167 South Park Ave. Hamburg, NY 14075 716-649-8110 f 716-649-8051 sjblas@slbegs.com					
Firm Type (MBE, DBE, WBE, SBE)	WBE																																															
Description	Quantity	Units	Unit Cost		Overall Cost		Quantity	Units	Unit Cost		Overall Cost		Quantity	Units	Unit Cost		Overall Cost		Quantity	Units	Unit Cost		Overall Cost		Quantity	Units	Unit Cost		Overall Cost		Quantity	Units	Unit Cost		Overall Cost		Quantity	Units	Unit Cost		Overall Cost		Quantity	Units	Unit Cost		Overall Cost	
			Level C	Level D	Level C	Level D			Level C	Level D	Level C	Level D			Level C	Level D	Level C	Level D			Level C	Level D	Level C	Level D			Level C	Level D	Level C	Level D			Level C	Level D	Level C	Level D			Level C	Level D	Level C	Level D			Level C	Level D	Level C	Level D
Moh/Demob																																															
Moh/Demob	1	LS	$7,748.00	$7,748.00	$7,748.00	$7,748.00	1	LS	$2,000.00	$2,000.00	$2,000.00	$2,000.00	1	LS			$0.00	$0.00	1	LS	$ 5,950.00	$ 5,950.00	$5,950.00	$5,950.00		LS			$0.00	$0.00		LS			$0.00	$0.00		LS			$0.00	$0.00		LS			$0.00	$0.00
Senior Technician/Driller		per hour			$0.00	$0.00		per hour			$0.00	$0.00		per hour	$28.50	$28.50	$0.00	$0.00		per hour			$0.00	$0.00		per hour			$0.00	$0.00		per hour			$0.00	$0.00		per hour			$0.00	$0.00		per hour			$0.00	$0.00
Technician		per hour			$0.00	$0.00		per hour			$0.00	$0.00		per hour	$23.50	$23.50	$0.00	$0.00		per hour			$0.00	$0.00		per hour			$0.00	$0.00		per hour			$0.00	$0.00		per hour			$0.00	$0.00		per hour			$0.00	$0.00
Permits		LS			$0.00	$0.00		LS			$0.00	$0.00		LS			$0.00	$0.00		LS			$0.00	$0.00		LS			$0.00	$0.00		LS			$0.00	$0.00		LS			$0.00	$0.00		LS			$0.00	$0.00
Rig Mileage Rate		per mile			$0.00	$0.00		per mile			$0.00	$0.00		per mile	$1.05	$1.05	$0.00	$0.00		per mile			$0.00	$0.00		per mile			$0.00	$0.00		per mile			$0.00	$0.00		per mile			$0.00	$0.00		per mile			$0.00	$0.00
Per Diem Rate	46	per day	$265.00	$265.00	$12,190.00	$12,190.00	46	per day	$275.00	$275.00	$12,650.00	$12,650.00	46	per day	$30.00	$30.00	$1,380.00	$1,380.00		per day			$0.00	$0.00		per day			$0.00	$0.00		per day			$0.00	$0.00		per day			$0.00	$0.00		per day			$0.00	$0.00
Prevailing Wage Upcharge		per day			$0.00	$0.00	0	per day	$400.00	$600.00	$0.00	$0.00		per day			$0.00	$0.00		per day			$0.00	$0.00		per day			$0.00	$0.00		per day			$0.00	$0.00		per day			$0.00	$0.00		per day			$0.00	$0.00
Support Truck Mileage Rate		per mile			$0.00	$0.00		per mile			$0.00	$0.00		per mile			$0.00	$0.00		per mile			$0.00	$0.00		per mile			$0.00	$0.00		per mile			$0.00	$0.00		per mile			$0.00	$0.00		per mile			$0.00	$0.00
Utility/Hand Clearance	1	LS	$1,050.00	$1,050.00	$1,050.00	$1,050.00	1	LS	$4,500.00	$4,500.00	$4,500.00	$4,500.00	1	LS			$0.00	$0.00		LS			$0.00	$0.00		LS			$0.00	$0.00		LS			$0.00	$0.00		LS			$0.00	$0.00		LS			$0.00	$0.00
Drill Rig and Crew																																															
Truck Drill Rig & Crew		per day	$1,000.00	$900.00	$0.00	$0.00	46	per day	$1,800.00	$1,400.00	$82,800.00	$64,400.00	46	per day	$1,100.00	$1,125.00	$50,600.00	$51,750.00		per day	$1,375.00	$1,300.00	$0.00	$0.00		per day	$1,500.00	$1,300.00	$0.00	$0.00		per day	$1,850.00	$1,650.00	$0.00	$0.00		per day	$1,600.00	$1,400.00	$0.00	$0.00		per day	$1,200.00	$1,300.00	$0.00	$0.00
Overtime Rate		per hour	$155.00	$135.00	$0.00	$0.00		per hour	$275.00	$225.00	$0.00	$0.00	2	per hour	$120.00	$120.00	$240.00	$240.00		per hour	$250.00	$200.00	$0.00	$0.00		per hour	$220.00	$200.00	$0.00	$0.00		per hour	$275.00	$235.00	$0.00	$0.00		per hour	$150.00	$150.00	$0.00	$0.00		per hour	$175.00	$175.00	$0.00	$0.00
Soil Sampling & Temporary Monitoring Wells																																														
5' Macro Core Soil Samples with Acetate Liners	414	each	$6.00	$6.00	$2,484.00	$2,484.00	414	each	$7.00	$7.00	$2,898.00	$2,898.00	414	each	$3.15	$3.15	$1,304.10	$1,304.10	414	each	$9.00	$9.00	$3,726.00	$3,726.00		each	$2.50	$2.50	$0.00	$0.00		each	$13.00	$11.00	$0.00	$0.00		each	$0.00	$0.00	$0.00	$0.00		each	$5.00	$5.00	$0.00	$0.00
1" Sch40 PVC Riser		per foot	$3.00	$3.00	$0.00	$0.00		per foot	$3.00	$3.00	$0.00	$0.00		per foot	$2.25	$2.25	$0.00	$0.00		per foot	$4.50	$4.50	$0.00	$0.00		per foot	$3.00	$3.00	$0.00	$0.00		per foot	$7.00	$7.00	$0.00	$0.00		per foot	$0.00	$0.00	$0.00	$0.00		per foot	$8.00	$8.00	$0.00	$0.00
1" Sch40 PVC 010 Slot Screen including sand to 6' above screen		per foot	$5.75	$5.75	$0.00	$0.00		per foot	$4.50	$4.50	$0.00	$0.00		per foot	$3.80	$3.80	$0.00	$0.00		per foot	$4.75	$4.75	$0.00	$0.00		per foot	$4.50	$4.50	$0.00	$0.00		per foot	$10.00	$10.00	$0.00	$0.00		per foot	$0.00	$0.00	$0.00	$0.00		per foot	$9.00	$9.00	$0.00	$0.00
1" PVC Cap		each	$1.00	$1.00	$0.00	$0.00		each	$5.00	$5.00	$0.00	$0.00		each	$4.50	$4.50	$0.00	$0.00		each	$3.00	$3.00	$0.00	$0.00		each	$1.00	$1.00	$0.00	$0.00		each	$4.00	$4.00	$0.00	$0.00		each	$0.00	$0.00	$0.00	$0.00		each	$5.00	$5.00	$0.00	$0.00
Sand and Bentonite Grouting of 3" hole to ground surface	2,070	per foot	$1.50	$1.50	$3,105.00	$3,105.00	2,070	per foot	$2.00	$2.00	$4,140.00	$4,140.00		per foot	$11.85	$11.85	$0.00	$0.00		per foot	$2.25	$2.25	$0.00	$0.00		per foot	$1.00	$1.00	$0.00	$0.00		per foot	$5.00	$5.00	$0.00	$0.00		per foot	$0.00	$0.00	$0.00	$0.00		per foot	$3.00	$3.00	$0.00	$0.00
Soil Vapor Point Installation																																														
Shallow Soil Vapor Point Installation (0-8')*		each	$83.00	$83.00	$0.00	$0.00		each	$100.00	$100.00	$0.00	$0.00	0	each	$110.00	$110.00	$0.00	$0.00		each	$95.00	$95.00	$0.00	$0.00		each	$75.00	$75.00	$0.00	$0.00		each	$130.00	$115.00	$0.00	$0.00		each	$70.00	$70.00	$0.00	$0.00		each	$175.00	$175.00	$0.00	$0.00
Deep Soil Vapor Point Installation (8'-16')*		each	$110.00	$110.00	$0.00	$0.00		each	$120.00	$120.00	$0.00	$0.00	0	each	$122.00	$122.00	$0.00	$0.00		each	$125.00	$125.00	$0.00	$0.00		each	$100.00	$100.00	$0.00	$0.00		each	$165.00	$150.00	$0.00	$0.00		each	$85.00	$85.00	$0.00	$0.00		each	$250.00	$250.00	$0.00	$0.00
Groundwater Screening																																														
Hydropunch	23	each	$100.00	$100.00	$2,300.00	$2,300.00	0	each	$100.00	$100.00	$0.00	$0.00	23	each			$0.00	$0.00		each			$0.00	$0.00		each			$0.00	$0.00		each			$0.00	$0.00		each			$0.00	$0.00		each			$0.00	$0.00
Other Technique (specify):		each			$0.00	$0.00		each			$0.00	$0.00		each			$0.00	$0.00	23	Deep SP-16 GW Samples each	$35.00	$35.00	$805.00	$805.00		each			$0.00	$0.00		each			$0.00	$0.00		each			$0.00	$0.00		each			$0.00	$0.00
Grouting Open Boreholes																																														
Open borehole for 2 inch marcrocore, high solids, bentonite grout		ft	$1.50	$1.50	$0.00	$0.00		ft	$2.00	$2.00	$0.00	$0.00	2,070	ft	$10.85	$10.85	$22,459.50	$22,459.50	2,070	ft	$1.50	$1.50	$3,105.00	$3,105.00		ft			$0.00	$0.00		ft			$0.00	$0.00		ft			$0.00	$0.00		ft			$0.00	$0.00
Decontamination		per hour	$95.00	$80.00	$0.00	$0.00		per hour	$225.00	$175.00	$0.00	$0.00	2	per hour	$45.00	$45.00	$90.00	$90.00		per hour	$0.00	$0.00	$0.00	$0.00		per hour	$180.00	$150.00	$0.00	$0.00		per hour	$195.00	$165.00	$0.00	$0.00		per hour	$0.00	$0.00	$0.00	$0.00		per hour	$150.00	$175.00	$0.00	$0.00
Standby Time		per hour	$95.00	$80.00	$0.00	$0.00		per hour	$225.00	$175.00	$0.00	$0.00	2	per hour	$99.00	$99.00	$198.00	$198.00		per hour	$200.00	$200.00	$0.00	$0.00		per hour	$150.00	$150.00	$0.00	$0.00		per hour	$165.00	$165.00	$0.00	$0.00		per hour	$0.00	$0.00	$0.00	$0.00		per hour	$150.00	$175.00	$0.00	$0.00
55-Gallon DOT Drum	10	each	$48.00	$48.00	$480.00	$480.00	10	each	$55.00	$55.00	$550.00	$550.00	10	each	$51.65	$51.50	$516.50	$515.00	10	each	$55.00	$55.00	$550.00	$550.00		each	$60.00	$60.00	$0.00	$0.00		each	$65.00	$65.00	$0.00	$0.00		each	$75.00	$75.00	$0.00	$0.00		each	$55.00	$55.00	$0.00	$0.00
Other																																														
Poly tubing	2,070	ft	$0.50	$0.50	$1,035.00	$1,035.00					$0.00	$0.00	2,070	ft	$0.55	$0.55	$1,138.50	$1,138.50					$0.00	$0.00					$0.00	$0.00		ft			$0.00	$0.00					$0.00	$0.00					$0.00	$0.00
Peristaltic Pump	23	day	$50.00	$50.00	$1,150.00	$1,150.00					$0.00	$0.00	46	day	$45.00	$45.00	$2,070.00	$2,070.00					$0.00	$0.00					$0.00	$0.00		day			$0.00	$0.00					$0.00	$0.00					$0.00	$0.00
Track Rig (6610 DT) and 2 person Crew	46	day	$1,375.00	$1,375.00	$63,250.00	$63,250.00					$0.00	$0.00					$0.00	$0.00					$0.00	$0.00					$0.00	$0.00		day			$0.00	$0.00					$0.00	$0.00					$0.00	$0.00
Poly Sheeting	1	roll	$110.00	$110.00	$110.00	$110.00					$0.00	$0.00					$0.00	$0.00					$0.00	$0.00					$0.00	$0.00		day			$0.00	$0.00					$0.00	$0.00					$0.00	$0.00
Overtime Rate 2 person (Per hour unless otherwise noted)		hour	$215.00	$195.00	$0.00	$0.00					$0.00	$0.00					$0.00	$0.00					$0.00	$0.00					$0.00	$0.00		ft			$0.00	$0.00					$0.00	$0.00					$0.00	$0.00
Geoprobe SP-15/16 Groundwater Profiler (expendable points)					$0.00	$0.00	69	each	$15.00	$15.00	$1,035.00	$1,035.00					$0.00	$0.00					$0.00	$0.00					$0.00	$0.00					$0.00	$0.00					$0.00	$0.00					$0.00	$0.00
Geoprobe 6600 Rig Surcharge					$0.00	$0.00	46	day	$200.00	$150.00	$9,200.00	$6,900.00					$0.00	$0.00					$0.00	$0.00					$0.00	$0.00					$0.00	$0.00					$0.00	$0.00					$0.00	$0.00
Geoprobe 6620 Track Rig Surcharge					$0.00	$0.00		day	$250.00	$200.00	$0.00	$0.00					$0.00	$0.00					$0.00	$0.00					$0.00	$0.00					$0.00	$0.00					$0.00	$0.00					$0.00	$0.00
Wooden Pallets					$0.00	$0.00		LS	$0.00	$0.00	$0.00	$0.00					$0.00	$0.00					$0.00	$0.00					$0.00	$0.00					$0.00	$0.00					$0.00	$0.00					$0.00	$0.00
Poly Sheeting					$0.00	$0.00		LS	$0.00	$0.00	$0.00	$0.00					$0.00	$0.00					$0.00	$0.00					$0.00	$0.00					$0.00	$0.00					$0.00	$0.00					$0.00	$0.00
Poly Tubing					$0.00	$0.00		ft	$0.50	$0.50	$0.00	$0.00					$0.00	$0.00					$0.00	$0.00					$0.00	$0.00					$0.00	$0.00					$0.00	$0.00					$0.00	$0.00
Teflon Tubing					$0.00	$0.00		ft	$3.00	$3.00	$0.00	$0.00					$0.00	$0.00					$0.00	$0.00					$0.00	$0.00					$0.00	$0.00					$0.00	$0.00					$0.00	$0.00
Decon Pad					$0.00	$0.00		LS	$0.00	$0.00	$0.00	$0.00					$0.00	$0.00					$0.00	$0.00					$0.00	$0.00					$0.00	$0.00					$0.00	$0.00					$0.00	$0.00
Geoprobe 6600					$0.00	$0.00					$0.00	$0.00					$0.00	$0.00	46	days	$1,400.00	$1,400.00	$64,400.00	$64,400.00					$0.00	$0.00					$0.00	$0.00					$0.00	$0.00					$0.00	$0.00
TOTALS					$94,902	$94,902					$119,773	$99,073					$79,997	$81,145					$78,536	$78,536					$0	$0					$0	$0					$0	$0					$0	$0
(10% Level C, 90% Level D)						$97,749						$106,200						$85,082						$82,463						$0						$0						$0						$0
% Cost increase for 2008						3%						5.0%						5.0%						5.0%						3.0%						6.0%						3.5%						10.0%
% Cost increase for 2009						5%						5.0%						5.0%						5.0%						3.0%						4.0%						3.5%						10.0%
% Cost increase for 2010						5%						5.0%						5.0%						5.0%						3.0%						4.0%						3.5%						10.0%
% Cost increase for 2011						5%						5.0%						-						5.0%						3.0%						-						3.5%						10.0%

EQUIPMENT

Item	Enterprise Rental Car	Hertz Rental Car	Budget Rental Car
Truck Rental (per week)	$ 548.59	$ 566.06	$ 563.89

Item	Pine Environmental	US Environmental	Environmental Equipment and Supply
YSI 600 XL water quality meter (per week)	$ 165.00	$ 275.00	$ 600.00
Hach DR-890 Colorimeter (per day)	$ 27.50	$ 25.00	NA
M-scope (per day)	$ 13.75	$ 20.00	$ 24.00
MiniRae (per week)	$ 110.00	$ 110.00	$ 200.00
Grunfos Pump (per day)	$ 26.13	$ 125.00	$ 140.00
Generator (per day)	$ 24.75	$ 50.00	$ 140.00
Dust Monitor #1 MIE DR-4000 (monthly) (includes associated auxiliary equipment for upgradient community air monitoring station)	$ 522.50	$ 1,200.00	$ 565.00
Dust Monitor #2 MIE DR-4000 (monthly) (includes associated auxiliary equipment for downgradient community air monitoring station)	$ 522.50	$ 1,200.00	$ 565.00
PID #1 (monthly) (for downgradient community air monitoring station)	$ 440.00	$ 650.00	$ 800.00
Lamp 11.7 eV Interchangeable (month) (for downgradient community air monitoring station equipped with PID #1)	$ 123.75	$ 180.00	$ 570.00
PID #2 (monthly) (for breathing zone and headspace readings)	$ 440.00	$ 650.00	$ 800.00
Lamp 11.7 eV Interchangeable (month) (for breathing zone and headspace readings collected with PID #2)	$ 123.75	$ 180.00	$ 570.00
Combustible Gas Indicator (weekly)	$ 82.50	$ 150.00	$ 150.00
JOBCOM Radio VHF JMS-141-D (for alarms on DR-4000s) (weekly)	$ 77.00	NA	$ 70.00
Teflon lined tubing	$ 1.00	0.8	$ 1.00
	$ 2,700.13	$ 4,815.80	$ 5,195.00

Raritan Plaza I, Raritan Center
Edison, New Jersey 08818
tel: 732-225-7000
fax: 732-225-7851

August 5, 2008

Mr. Shawn Tibbetts
ZEBRA Environmental
30 N. Prospect Avenue
Lynbrook, New York 11563

Subject: NYSDEC Standby Contract No. D004437-30
Pride Solvents and Chemical Site (Site No. 1-52-025)
Conflict of Interest

Dear Mr. Tibbetts:

Camp Dresser & McKee (CDM) intends to issue a Task Order to ZEBRA Environmental which will authorize your firm to provide services in support of our investigation for the above-referenced project. Information provided in the Attachment has been furnished by the New York State Department of Environmental Conservation (NYSDEC). The entities referenced and/or listed are those believed or acknowledged to be Potentially Responsible Parties (PRP's). Please review your firm's contractual status and/or relationship with each of the PRP's referenced and/or listed. Then complete and sign the enclosed **Conflict of Interest Certification** statement and return it to me as soon as possible. This Conflict of Interest Statement is a required element of the Prime Agreement with NYSDEC. Compensation for the contracted services will not be released without this statement. If you have any questions or need additional information, please call me in CDM's Edison, New Jersey office at 732.590.4701.

Very truly yours,

Cristina Ramacciotti
Project Geologist
Camp Dresser & McKee

Enclosures

CDM

Subcontractor Conflict of Interest Certification

The undersigned, representing ZEBRA Environmental hereby certifies for the
Project at 78-88 Lamar Street, West Babylon, Suffolk County, NY Site No. 1-52-025

1) That I have been informed by the Camp Dresser & McKee who the known potentially responsible parties are for the subject site, and

2) That to the best of my knowledge, ZEBRA Environmental and the employees of the firm to be assigned to this project have no conflict of interest with the work proposed at this site, and

3) That presently ZEBRA Environmental has no contracts with, nor imminent prospects of contracts with, potentially responsible parties associated with the above-named site, and

4) That ZEBRA Environmental has no responsibilities to potentially responsible parties associated with the above-named site.

Certified By:

Signature of Authorized Subcontractor Officer

Paul Fleischmann, President

Print Name of Officer

ZEBRA Environmental Corp.

Subcontracting Firm

August 5, 2008

Date

New York State
Department of Environmental Conservation
Division of Environmental Remediation
Standby Contract
Conflict of Interest Certification

To the best of the Department of Environmental Conservation's knowledge, the potential responsible parties listed below are the known potential responsible parties, as of the date of the issuance of the work assignment letter.

- Pride Solvents and Chemical formerly owned and operated facilities at the parcel.
- No additional PRPs were identified.

New York State
Department of Environmental Conservation
Division of Environmental Remediation

Subcontract Certification

On behalf of the Contractor named below, I hereby certify that the subcontract named below was procured in accordance with the terms of the prime contract and all applicable requirements of the State of New York. I also hereby certify that the executed subcontract includes all appropriate language and all required documents were completed appropriately and were acceptable. Specifically, I hereby certify the following:

1. The Contractor has determined that the subcontractor is qualified. A statement of qualifications for the subcontractor is maintained. It does include a statement of compliance with all licenses, certifications and permits, if applicable. (Note: For laboratories, this can be determined at: http://www.wadsworth.org/labservices.htm).

2. The Contractor has determined the costs are reasonable. A procurement record supporting the determination is maintained.

3. The Contractor performed a Conflict of Interest (COI) check, if applicable, and documented it in writing. (Refer to Appendix B, clause III (e) for applicability. (Note that for standby subcontractors, the COI certification must be submitted to the project manager upon activation.)

4. For subcontracts in excess (or anticipated to be) of $10,000 the subcontractor submitted an acceptable New York State Uniform Contracting Questionnaire. For subconsultants in excess (or anticipated to be) of $10,000 the subconsultant submitted an acceptable New York State Vendor Responsibility Questionnaire. (Information related to vendor responsibility can be found at http://www.osc.state.ny.us/agencies/gbull/g221.htm.)

5. The subcontract includes pass down requirements from Appendix B of the prime contract related to Minority and Women Business Enterprises/WBE and Conflict of Interest (COI).

6. The Subcontract includes the termination clause required in the prime contract.

7. The subcontract does not include "pay if paid" type clauses which are unenforceable in New York State.

8. Insurance carriers associated with the subcontract are licensed to do business in New York State. The State of New York and the Department of Environmental Conservation are named as additional insurers on the policies. Insurance limits meet prime contract requirements. (Note that licensed insurance can be determined at: http://www.ins.state.ny.us and Best's Rating can be determined at http://www.ambest.com). Pollution liability insurance (for example, drilling subcontractors) and professional liability insurance (for example, subcontracts for professional services and laboratories) is included as appropriate.

9. Documentation supporting this certification is maintained and will be provided within 10 days of any request.

Seth J Kellogg — 8·8·08

Signature of Contractor's Authorized Representative — Date

Camp Dresser & McKee — D004437-30

Contractor Name — Contract No. WA No.

ZEBRA Environmental

Subcontractor Name

3/2/07

New York State
Department of Environmental Conservation
Division of Environmental Remediation

Subcontract Certification

On behalf of the Contractor named below, I hereby certify that the subcontract named below was procured in accordance with the terms of the prime contract and all applicable requirements of the State of New York. I also hereby certify that the executed subcontract includes all appropriate language and all required documents were completed appropriately and were acceptable. Specifically, I hereby certify the following:

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Seth Kellogg — 8-8-08

Signature of Contractor's Authorized Representative — Date

Camp Dresser & McKee — D004437-30

Contractor Name — Contract No. WA No.

Land, Air, Water Environmental Services, Inc.

Subcontractor Name

New York State
Department of Environmental Conservation
Division of Environmental Remediation

Subcontract Certification

On behalf of the Contractor named below, I hereby certify that the subcontract named below was procured in accordance with the terms of the prime contract and all applicable requirements of the State of New York. I also hereby certify that the executed subcontract includes all appropriate language and all required documents were completed appropriately and were acceptable. Specifically, I hereby certify the following:

1. The Contractor has determined that the subcontractor is qualified. A statement of qualifications for the subcontractor is maintained. It does include a statement of compliance with all licenses, certifications and permits, if applicable. (Note: For laboratories, this can be determined at: http://www.wadsworth.org/labservices.htm).

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6. The Subcontract includes the termination clause required in the prime contract.

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Seth Kellogg — 8·8·08

Signature of Contractor's Authorized Representative — Date

Camp Dresser & McKee — D004437-30

Contractor Name — Contract No. WA No.

Mitkem Laboratories

Subcontractor Name

3/2/07

New York State
Department of Environmental Conservation
Division of Environmental Remediation

Subcontract Certification

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Seth Kellogg — 8·8·08

Signature of Contractor's Authorized Representative — Date

Camp Dresser & McKee — D004437-30

Contractor Name — Contract No. WA No.

POPLI Consulting Engineers and Surveyors

Subcontractor Name

3/2/07

New York State
Department of Environmental Conservation
Division of Environmental Remediation

Subcontract Certification

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Seth Kellogg — 8·8·08

Signature of Contractor's Authorized Representative — Date

Camp Dresser & McKee — D004437-30

Contractor Name — Contract No. WA No.

SeaCoast Environmental Services, Inc.

Subcontractor Name

3/2/07

New York State
Department of Environmental Conservation
Division of Environmental Remediation

Subcontract Certification

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Seth Kellogg — 8-8-08

Signature of Contractor's Authorized Representative — Date

Camp Dresser & McKee — D004437-30

Contractor Name — Contract No. WA No.

Ken Shider Consulting

Subcontractor Name

3/2/07

New York State
Department of Environmental Conservation
Division of Environmental Remediation

Subcontract Certification

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Seth Kellogg — 8-8-08

Signature of Contractor's Authorized Representative — Date

Camp Dresser & McKee — D004437-30

Contractor Name — Contract No. WA No.

Nancy Potak – Data Validation

Subcontractor Name

3/2/07