

PROJECT NAME: FRANKLIN CLEANERS

WA #: D003600-21

TO: Michael J. O'Toole

The attached Work Plan is submitted for your approval. It has been checked and approved by:

	Name	Initials	Date
<b>Project Manager</b> (scope, level-of-effort, subcontracting).	J. YAVONDITTE	JY	3-8-01
<b>Contract Manager</b> (conformance with contract and protocols).	B. FRANK	BFR	3-8-01
<b>Accountant/Cost Reviewer</b> (cost reasonableness).	B. FRANK	BFR	3-8-01
<b>M/WBE Unit</b>	B. MOULHEM	BM	3/22/01
<b>Chief, Contracts Section</b>	R. LUPE	RL	4/3/01
<b>Bureau Director</b>	D. WEIGEL	DW	4/3/01

PLEASE CALL DEBI (7-9279) AFTER SIGN-OFF

c:\section\ntproute.slp - 12/8/98



**New York State Department of Environmental Conservation  
Division of Environmental Remediation, Room 260B**

50 Wolf Road, Albany, New York 12233-7010  
**Phone:** (518) 457-5861 • **FAX:** (518) 485-8404  
**Website:** www.dec.state.ny.us

bcc: w/ enclosure  
J. Yavonditte  
B. Frank/S.Gupta  
W. Parish, Reg. 1  
D. Norvik  
bcc: w/o enclosure  
M. O'Toole  
R. Cowen, Reg. 1  
D. Weigel  
R. Koelling  
R. Knizek  
B. Moulhem  
Dayfile

Mr. Thomas F. Maher, P.E.  
Dvirka and Bartilucci Consulting Engineers  
330 Crossways Park Drive  
Woodbury, NY 11797-2015

APR - 4 2001

Dear Mr. Maher:

TM/sg  
a:\d&b-ntp-3600-21.wpd

RE: State Superfund Standby Contract  
**Work Plan Approval**  
Work Assignment #D003600-21  
Franklin Cleaners Site, Site# 1-30-050, Hempstead, Nassau County

This is to acknowledge receipt of the work plan dated March 2001 for the above-referenced project. The subject work plan is for Remedial Construction Inspection at the above-mentioned site. The Department hereby approves the work plan and authorizes Dvirka and Bartilucci, Consulting Engineers to proceed with the project.

The following constitutes the budget for this amended work assignment:

Prior approved work plan budget	\$ 0
Approved increase in budget for this work plan	\$157,964
Total approved work plan budget	\$157,964
Unapproved budget items	\$ 0
Total work assignment budget	\$157,964

You are authorized to expend only approved work plan budget funds. Payments cannot be processed until the encumbrance of monies for this WA is approved by the Office of the State Comptroller (OSC). This process takes approximately four weeks. Unapproved budget items must be resubmitted in a revised work plan budget and receive written Department approval before expenditures are incurred.

Your firm is hereby given notice to proceed with the work described in this work assignment. All work described shall be completed according to the schedule in the approved work plan.

If you have any questions or comments, please contact Joe Yavonditte, P.E., Project Manager, at (518) 457-9285.

Sincerely,



Michael J. O'Toole, Jr.  
Director  
Division of Environmental Remediation



**New York State Department of Environmental Conservation**  
**Division of Environmental Remediation**  
**Bureau of Construction Services, Room 267**  
50 Wolf Road, Albany, New York 12233-7010  
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## MEMORANDUM

**TO:** Michael J. O'Toole, Jr., Director, Division of Environmental Remediation

**FROM:** Robert C. Knizek, Chief, Eastern Field Services *R.C. Knizek*  
**THRU:** Richard Koelling, Director, Bureau of Construction Services *HRK*

**SUBJECT:** Work Plan Approval for Dvirka & Bartilucci  
WA# D003600-21  
Franklin Cleaners Site No. 1-30-050

**DATE:**

Attached is a letter approving the work plan for the subject work assignment. This WA provides for construction oversight of the first remedial construction contract at the above site. The total budgeted amount in this WA is \$147,008. The WA also provides for monitoring of the contractor's operation of the systems for the first year after startup. The start of construction, which includes soil vapor extraction and air sparging, on this site has been delayed because the original low bidder was allowed to withdraw, and we are proceeding to award the contract to the second low bidder. D&B will submit a revised schedule once the contract has been awarded.

It is anticipated that this work assignment will be modified to include oversight of the second remedial construction project associated with this site. The bid opening for that project is April 3, 2001.

I recommend that you sign the attached letter.

Attachment

**REMEDIAL CONSTRUCTION INSPECTION  
WORK PLAN**

**FRANKLIN CLEANERS SITE  
HEMPSTEAD, NEW YORK  
SITE REGISTRY NO. 1-30-050**

**APPROVED**

*[Signature]*  
3-8-01

**WORK ASSIGNMENT NO. D003600-21**

**APPROVED**

*[Signature]*  
3-8-01

*Prepared For*

**NEW YORK STATE DEPARTMENT  
OF ENVIRONMENTAL CONSERVATION**

*By*

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

**MARCH 2001**



**REMEDIAL CONSTRUCTION INSPECTION  
WORK PLAN**

**FRANKLIN CLEANERS SITE**

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## 1.0 INTRODUCTION

As part of New York State's program to investigate and remediate hazardous waste sites, the New York State Department of Environmental Conservation (NYSDEC or Department) has issued a Work Assignment to Dvirka and Bartilucci Consulting Engineers (D&B) of Woodbury, New York, under its Superfund Standby Contract with NYSDEC, to provide remedial construction inspection services for the Franklin Cleaners Site located in the Village of Hempstead, New York (see Figure 1-1). The site is a Class 2 New York State Superfund site (Registry No. 1-30-050).

The major elements of the Franklin Cleaners Site remedy related to source area remediation and the objectives of this Work Assignment, as presented in the Record of Decision (ROD), are as follows:

1. Soil vapor extraction (SVE) of tetrachloroethene-contaminated soils with on-site treatment of contaminated vapors using a vapor phase granular activated carbon (GAC) treatment system;
2. Air sparging of shallow on-site groundwater and capture of tetrachloroethene vapors by the SVE system; and
3. Off-site disposal of all spent carbon.

This Work Plan includes a detailed description of the project tasks, a project schedule and budget for the project. In addition, key project milestones are identified and a description of the project team is presented.





SOURCE: USGS FREEPORT AND LYNBROOK QUADRANGLES

0 2000  
SCALE IN FEET

FRANKLIN CLEANERS SITE  
TOWN OF HEMPSTEAD, NEW YORK

SITE LOCATION

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

FIGURE 1-1



## **2.0 SITE BACKGROUND AND HISTORY**

### **2.1 Site Background**

The Franklin Cleaners Site is a former dry cleaning facility located at 206-208B South Franklin Street in the Incorporated Village of Hempstead, Nassau County, New York. The site is approximately 1/8 acre in size and includes a two-story building with residential apartments on the second floor, and a coin laundromat and delicatessen occupying the first floor. Portions of the first floor and basement were utilized by the former dry cleaning facility (see Figure 2-1).

The surrounding properties are primarily residential with the exception of South Franklin Street, which is mixed residential and commercial. The site and surrounding community is serviced by public water and sewers by the Village of Hempstead. The building was connected to the village sewer system at the time of construction in 1956.

Access to the site is from South Franklin Street. The area immediately adjacent to the site building is almost entirely covered with concrete except for portions at the rear of the property. The rear portion of the site was recently fenced.

### **2.2 Site History**

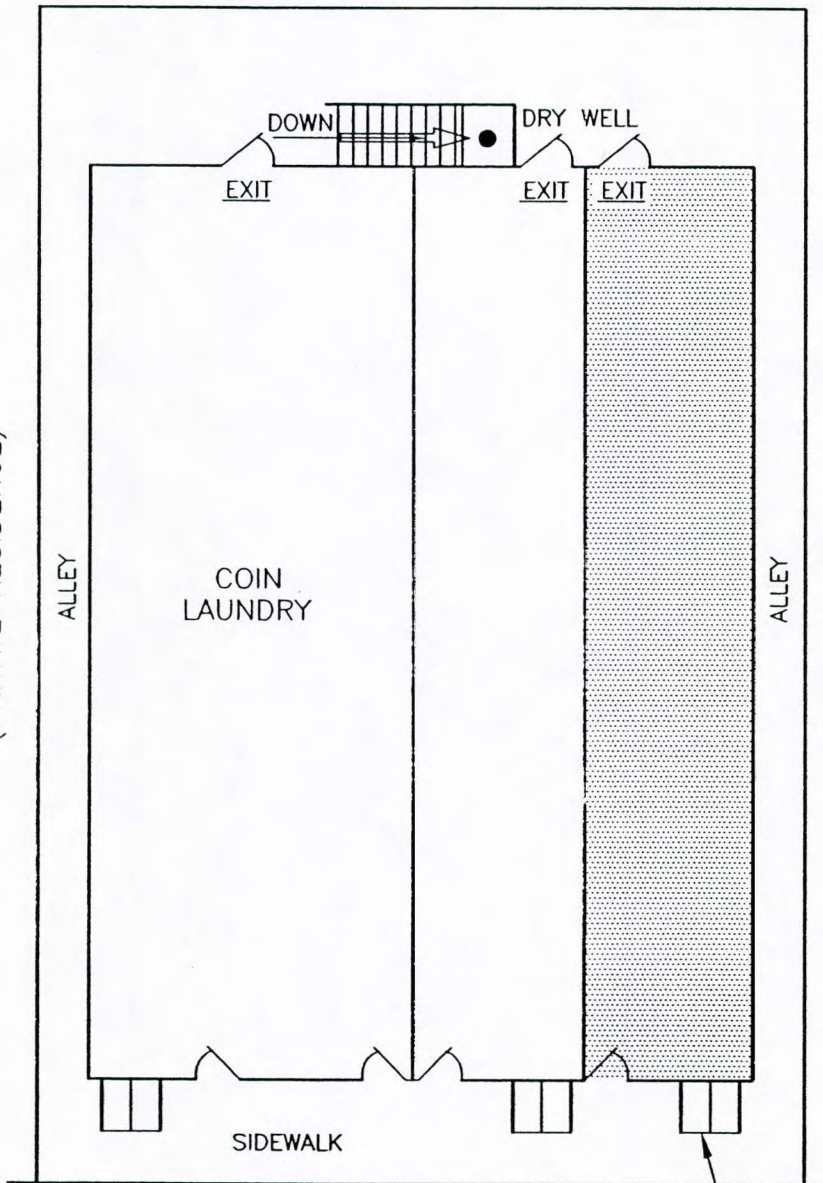
In March 1990, the Nassau County Department of Health (NCDOH) investigated a complaint of tainted drinking water from a private residence on Linden Avenue. The residence was found to have two private water supply wells: a drinking water well (approximately 45 feet deep) and an irrigation well (approximately 32 feet deep). The water supply well was sampled and found to contain tetrachloroethene (PCE) at 5,500 parts per billion (ppb). The irrigation well contained PCE at 29,000 ppb. The drinking water and groundwater standard for PCE is 5 micrograms per liter (ug/l). The residence was connected to the Village of Hempstead public water supply system following the detection of PCE.





ADJACENT PROPERTY  
(PRIVATE RESIDENCE)

ADJACENT PROPERTY  
(PRIVATE RESIDENCE)

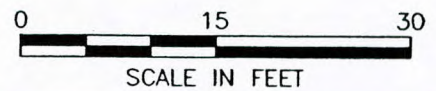


ADJACENT BUILDING

**LEGEND:**



AREA UTILIZED BY FORMER  
DRY CLEANER



FRANKLIN CLEANERS SITE  
HEMPSTEAD, NEW YORK

**SITE PLAN**

**FIGURE 2-1**



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



Since the Franklin Cleaners Site is located upgradient of the wells on Linden Avenue, NCDOH performed an inspection of the dry cleaner premises and collected surface soil samples from the basement of the existing building and at the rear of the former dry cleaner property. Soil samples from the basement were found to contain PCE concentrations as high as 9,400 ppb. A sample from the rear of the property contained PCE at 650,000 ppb, trichloroethene (TCE) at 1,700 ppb and dichloroethene (DCE) at 680 ppb.

In 1993, a Preliminary Site Assessment was performed by the Nassau County Department of Public Works (NCDPW). As part of this investigation, four groundwater wells were installed. One of the wells, FC-1, was installed upgradient of the former dry cleaner site to a depth of 40 feet. The other three wells, FC-2, FC-3 and FC-4, were installed downgradient of the site, each to a depth of 37 feet. Groundwater samples collected from the wells showed that monitoring well FC-2 contained PCE at 83 ppb and that none of the contaminants of concern were detected in FC-1, FC-3 and FC-4.

The site was listed on the Registry of Inactive Hazardous Waste Disposal Sites in New York State on June 17, 1993. In response to a determination that the presence of hazardous waste at the site presents a significant threat to human health and the environment, the NYSDEC completed a Remedial Investigation/Feasibility Study (RI/FS). The purpose of the RI was to define the nature and extent of contamination resulting from previous activities at the site. The RI was conducted between December 1996 and April 1997. A draft RI report was issued in October 1997 and a final RI report was issued in February 1998.

Based on the results of interior soil sampling, elevated levels of contamination exist primarily in the vicinity of the former "cooker" and other dry cleaning equipment which was located near the concrete pad in the southeast corner of the basement. The elevated levels found indicate that PCE spills or disposal occurred in this portion of the basement. The basement floor of the building is in poor condition with numerous cracks and broken concrete, which apparently allowed the spilled PCE to migrate to the underlying soil. The contamination in the vicinity of the "cooker" appears to be limited to the surface soil and shallow subsurface soil at less than 4 feet. Although the surface soil samples exhibited very high levels of PCE, the samples



collected with depth, in general, did not exhibit elevated levels of PCE. The area of significant contamination appears to be approximately 450 to 500 square feet.

As part of the RI, surface soil samples were collected along the rear (eastern) portion of the building. Subsurface soil borings were constructed at nine of the surface soil sample locations. The borings were constructed and continuously sampled to a depth of approximately 20 feet below grade. Elevated levels of contamination appear to be limited to an area immediately adjacent to the back door of the former dry cleaning facility. This area is approximately 250 to 300 square feet. Based on the subsurface sample results and the significant groundwater contamination associated with this site, elevated PCE contamination in these soils is likely to be present down to the depth of the water table (approximately 20 feet).

The results of the groundwater sampling conducted as part of the RI are summarized below.

#### Shallow Upper Glacial Aquifer

Elevated levels of PCE were detected in the shallow groundwater in the immediate vicinity of the Franklin Cleaners Site. The highest concentration detected was 1,502 ppb in the well installed on site. The two shallow domestic wells sampled downgradient of the site, 6-Lind-1 and Feld-1, showed PCE at 780 ppb and 100 ppb, respectively. VOC levels decrease in concentration in the shallow aquifer downgradient (south) of the site to below 5 ppb approximately 3,000 feet downgradient of the site.

#### Intermediate Upper Glacial Aquifer

Elevated levels of VOCs were detected farther downgradient of the site in the intermediate depth samples collected from the Upper Glacial aquifer. Concentrations of PCE greater than 1,000 ppb were detected approximately 1,000 feet downgradient of the site at groundwater probes P-21 and P-23, and at monitoring well MW-3I. Concentrations greater than



100 ppb were detected at a distance of approximately 3,500 feet downgradient of the site in the intermediate zone.

#### Deep Upper Glacial Aquifer

Elevated levels of VOCs were detected in the deep Upper Glacial aquifer both upgradient and downgradient of the site. Concentrations in the immediate vicinity of the site in the deep zone exhibited slightly elevated VOC levels up to 72 ppb. Overall, the deep aquifer data indicates a discontinuous plume of highly contaminated groundwater, greater than 1,000 ppb, migrating southerly from the site. Concentrations greater than 100 ppb have been detected in the deep Upper Glacial aquifer as far as 4,500 feet downgradient of the site.

#### General Groundwater Observations

The groundwater plume which emanates from the Franklin Cleaners Site can be traced to nearly 1 mile downgradient (south) of the site where it ends on the northern boundary of the Molloy College property, just south of the Southern State Parkway. The width of the plume remains narrow throughout its length, generally less than 500 feet. In comparing the contaminant levels in the shallow, intermediate and deep Upper Glacial aquifer, it is apparent that contamination migrates downward as it travels away from the site. Due to the presence of a low permeability unit at the interface of the Upper Glacial and Magothy aquifers, it is unlikely that significant contamination associated with the Franklin Cleaners Site has migrated into the Magothy aquifer.

Air data collected from the building which included the former Franklin Dry Cleaners and the adjacent building to the south showed PCE levels in exceedance of the NYSDOH guideline for tetrachloroethene in air. Analysis of samples collected from residences adjacent to the former cleaners showed levels of PCE which were below the NYSDOH proposed ambient air guidance value.



### Interim Remedial Measure

An Interim Remedial Measure (IRM) was implemented in January 1998 to address the elevated levels of PCE found in the ambient air samples collected in the basement of the former dry cleaners, as well as in air samples collected on the first and second floors of the Franklin property. Fans with integrated particulate and granular activated carbon (GAC) filters, designed to recirculate and filter air to remove dust and VOCs, were installed in the basement of the former dry cleaner. A wall was constructed to isolate the portion of the basement where the cooker for the dry cleaner was located and where the elevated PCE levels were found in soils beneath the basement floor.

### Remedial Construction

On June 26, 2000, the NYSDEC issued construction contract documents and advertised for bids for construction of soil vapor extraction (SVE) and air sparging systems at the Franklin Cleaners Site. The construction work specified also includes installation of soil vapor monitoring probes and groundwater monitoring wells, resurfacing of the basement floor and paving of unpaved areas. The construction contract provides for performance testing of the SVE and air sparging systems, and operating and monitoring the systems until cleanup goals are achieved as determined by soil and groundwater sampling.

Bids for the construction and operation of the SVE and air sparging systems and related work were received by the NYSDEC on August 1, 2000, and a notice was issued by the Department to the apparent low bidder on August 4, 2000.



### **3.0 SCOPE OF WORK**

The services to be provided by D&B under this work assignment will include the following: work plan preparation; review of contractor submittals; construction inspection; QA/QC sampling; preparation of quarterly reports; and preparation of a final remediation (close out) report. Presented below is a description of each task.

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

This task includes review of project records and reports, and preparation of this work plan. This task also includes telephone discussions with Department representative, preparation and submittal of a draft work plan for Department review, comment and finalization of this work plan.

#### **3.2 Task 2 – Review of Contractor Submittals**

Contractor submittals will be reviewed for compliance with the requirements of the contract documents. Recommendations will be provided to the Department to accept, reject or require modifications to each submittal. Any proposals made by the contractor which constitute a significant change in the work will be discussed with the NYSDEC Project Manager. Schedules and as-built drawings submitted by the contractor will be reviewed during construction and recommendations will be provided for acceptance/rejection to the NYSDEC. In addition, the scope of work under this task includes review of the following contractor submittals:

- Contingency Plan;
- Work and Waste Handling Plan;
- Storm Water Management Plan;
- Process Flow Diagrams;
- Plan for System Installation;



- Engineering Description of System;
- Process Description;
- Well Installation Plan;
- Key Operation Personnel and Past Experience;
- Shop Drawings;
- Operations and Maintenance Manual;
- As-built Drawings; and
- Copies of the contractor's correspondence to regulatory agencies, and applications for permits and approvals.

It should be noted that review of the contractor's Health and Safety Plan, and Sampling and Analysis Plan were included as part of previous Work Assignment D003600-10.

### **3.3 Task 3 – Construction Inspection**

The work under this task includes attendance at the preconstruction meeting, full-time construction inspection, final inspections and review of applications for payment.

#### Preconstruction Meeting

A preconstruction meeting will be attended to initiate the construction phase of the project. The preconstruction meeting will be held at D&B's offices in Woodbury. The focus of this meeting will be to finalize the contractor's schedule and formats for payment requests, reports and project correspondence, and review the status of submittals and procedures for communications. Meeting minutes will be prepared and distributed to all attendees.



## Construction Inspection and Payment Application Review

Full-time on-site inspection services will be provided during construction, startup and performance testing. The work will be monitored for conformance with the contract documents and approved submittals by inspecting the construction and performance testing activities. Manifests and bills of lading for disposal of hazardous and nonhazardous waste will be signed for the NYSDEC. During construction and the 14-day performance testing period, biweekly progress meetings will be held with the contractor to discuss project issues, performance and schedule. Minutes of these meetings will be prepared and issued to those in attendance. At the completion of the construction and performance testing, the performance test report prepared by the contractor will be reviewed and an interim punch list inspection will be conducted to identify remaining work items to be completed. The construction contract requires substantial completion of construction and performance testing within 150 days of notice to proceed.

Additionally, under this task, the monitoring reports prepared by the contractor will be reviewed and periodic inspections will be conducted during the 42-day initial period of operation following the performance test. During the initial period of operation, the contractor is required to sample the SVE and air sparging systems weekly and submit weekly progress reports. The progress of the remediation systems will be evaluated and appropriate modifications to system operations will be recommended, if warranted during this initial period.

At the completion of remediation, full time on-site inspection services will be provided for the contractor's demobilization and site restoration work (e.g., well abandonment). A punch list inspection will be conducted to identify remaining work items to be completed, followed by a final inspection to determine if all work has been completed and to verify that the requirements of the contract documents have been satisfied.

The contractor and the NYSDEC will be notified in the event that the contractor fails to perform the work as specified in the contract and recommendations will be provided to the NYSDEC for the acceptance, disapproval or rejection of contractor's work. Under the supervision of the Department, instructions, field orders, interpretations and clarifications of



contract language will be issued to the contractor. Review and recommendations will be provided for approval or modification of all requests for payment submitted by the contractor. Approved payment requests will be forwarded to the NYSDEC.

In accordance with the above, the labor hour estimate for this task is based on the following with respect to on-site inspection:

- Construction and Start-up - 50 weekdays;
- Performance Testing - 10 weekdays;
- Initial Operating Period - 6 half days; and
- Final Site Restoration - 2 weekdays.

Complete and detailed records will be maintained as required by NYSDEC related to construction activities. The complete original records will become the property of NYSDEC at the completion of the project. These records and reports will include the following:

- Daily inspection logs to be maintained in a daily log book;
- Work completed, on-site visitors and important conversations;
- Listing and use of contractor's personnel, material and equipment which allows for quantification of the contractor's production;
- Records documenting the contractor's deviation from the specifications and approved submittals including descriptions of actions and resolutions;
- Unusual circumstances (weather conditions, environmental problems, health and safety hazards encountered, etc.);
- General files including correspondence and other documentation related to the project;
- Meeting minutes with documentation on resolution issues;
- Record of submittals; and
- Construction photographs. Photographs will be taken before work begins, during its progress and at completion of the work. Each photograph will have attached to its



backing a label containing the project name, site number, short description of view, photograph number and date taken.

### **3.4 Task 4 – QA/QC Sampling**

This task includes the collection and analysis of samples prior to and during performance testing, and during the operating periods. Groundwater, soil vapor and soil samples collected by the contractor will be split to confirm and evaluate the progress of remediation.

#### Groundwater Sampling

Prior to start up (baseline sampling) and to confirm that the air sparging system remediation objectives have been achieved, the contractor is required to perform groundwater sampling as specified in the contract documents. Samples collected by the contractor will be split during these two events. Groundwater samples will be collected from monitoring wells ASM-1, ASM-2, FC-1 and FC-2 during each event; and therefore, a total of eight groundwater samples will be collected and analyzed. The samples will be analyzed for volatile organic compounds (VOCs) in accordance with NYSDEC ASP Method 95-1. Standard (28-day) laboratory turnaround will be provided for the samples collected during the baseline event and a 7-day turnaround will be provided for the sample analyses at remediation closeout.

#### Soil Sampling

Confirmatory soil samples will be split with the contractor to confirm that the SVE system remediation objectives have been achieved. It is assumed that two rounds of confirmatory soil sampling will be required prior to remediation closeout. In accordance with the contract documents, the contractor will advance three soil probes during each sampling round. One sample from each probe location will be split with the contractor and submitted for analysis for VOCs in accordance with NYSDEC ASP Method 95-1. Forty-eight hour laboratory turnaround will be provided on the sample analyses.



### Soil Vapor Sampling

Splits of soil vapor samples collected by the contractor will be analyzed for volatile organic compounds. One round of samples collected by the contractor during the SVE performance test, one round of samples collected by the contractor during the initial SVE operating period, and one round of samples collected by the contractor during the routine SVE operating period will be split. During each of the three rounds, the split samples will be collected from eight points as follows (for a total of 24 soil vapor samples): each of the three SVE well heads; each of the four vapor monitoring probes; and at the outlet of the primary carbon vessel.

Since the sampling and analysis work under this task is for confirmatory purposes, analysis of matrix spike, matrix spike duplicate, trip blank and field blank samples is not included in the scope of work. In addition, data validation services are not included in the scope of work. The contractor is required to perform these analyses and provide data validation services.

The results of each sampling event will be summarized in a letter report to be provided to NYSDEC.

### **3.5 Task 5 – Quarterly Reports**

During the routine operating period, the contractor is required to submit progress monitoring reports monthly. The contractor's reports will be reviewed and evaluated, and a report will be prepared each quarter, presenting an analysis of systems operations. The quarterly report will summarize the monitoring reports submitted by the contractor and make appropriate recommendations with respect to continuing the treatment process. Each quarterly report will be in letter report format.

As indicated on the schedule presented in Section 4 of this work plan, the labor hour estimate for this task is based on the following quarterly reporting schedule:



- Report 1 – November 15, 2001;
- Report 2 – February 15, 2002;
- Report 3 – May 15, 2002; and
- Report 4 – August 15, 2002

The work under this task also includes review of the contractor's applications for payment during the routine period of operations, through September 2002.

### **3.6 Task 6 – Final Remediation (Close Out) Report**

Construction, operating and testing results will be documented in a report that summarizes the remediation work, provides "as-built" drawings (to be prepared by the contractor), and includes the inspection records, monitoring reports and sampling results in appendices. The report will describe all variations from the contract documents and a summary of all wastes and their disposition as provided by the contractor. The report will be sealed and signed by a professional engineer licensed to practice in New York. The budget estimate provides for submittal of two copies of a draft report and ten copies of the final report to the Department.



## **4.0 PROJECT MANAGEMENT**

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

A project schedule is provided in Figure 4-1. The schedule will be subject in large part to the progress of the construction contractor. Key milestones on the schedule are identified in order to monitor work progress. Specific deadlines for completion of tasks and subtasks are established throughout the project to ensure timely completion of work. The following is the list of the milestones for this project:

1. Submittal of Draft Work Plan
2. Submittal of Quarterly Reports
3. Submittal of Draft Remediation (Close Out) Report

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

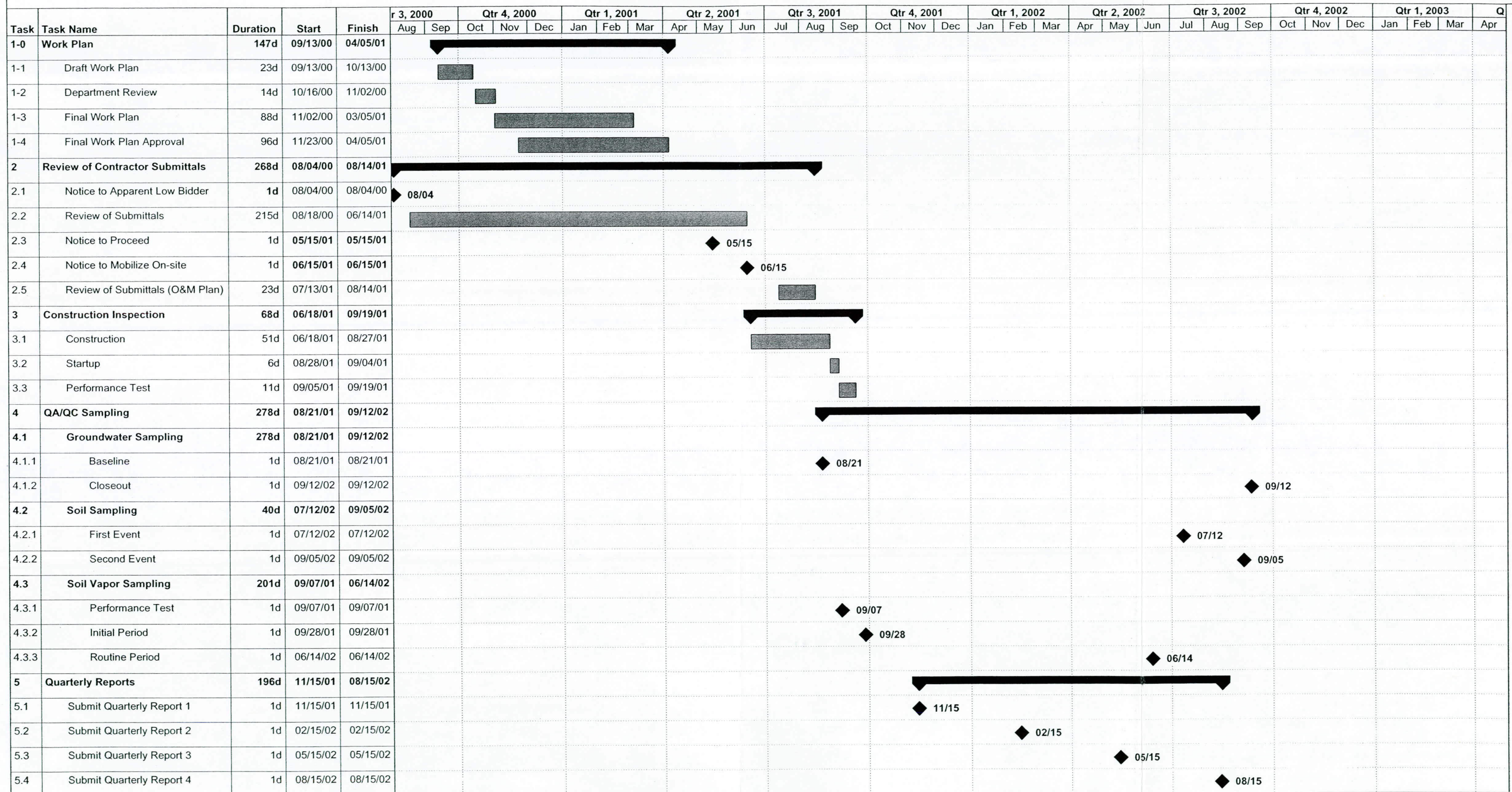
Dvirka and Bartilucci Consulting Engineers will be the prime consultant responsible for remedial construction inspection. Due to the nature of the work, only one subcontractor will be used on the project, which is:

- Mitkem (MBE) - laboratory/sample analysis

Project organization illustrating both management and project responsibility functions for the project team and key personnel is provided in Figure 4-2.



FIGURE 4-1  
FRANKLIN CLEANERS SITE  
REMEDIAL CONSTRUCTION INSPECTION PROJECT SCHEDULE



Project: Franklin Cleaners Site  
Remedial Construction Inspection  
Date: 03/05/01

Task



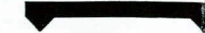
Progress



Milestone



Summary



Rolled Up Milestone



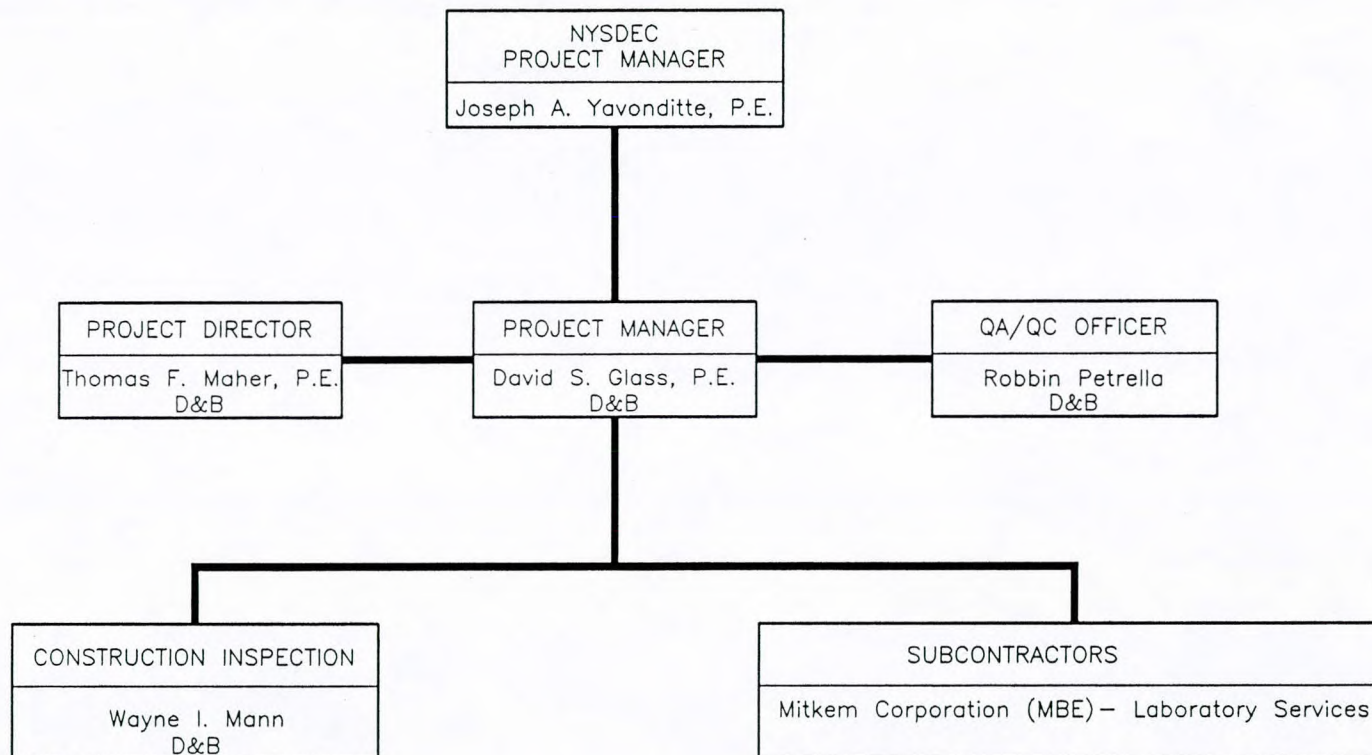


FIGURE 4-1  
FRANKLIN CLEANERS SITE  
REMEDIAL CONSTRUCTION INSPECTION PROJECT SCHEDULE

Task	Task Name	Duration	Start	Finish	r 3, 2000		Qtr 4, 2000			Qtr 1, 2001			Qtr 2, 2001			Qtr 3, 2001			Qtr 4, 2001			Qtr 1, 2002			Qtr 2, 2002			Qtr 3, 2002			Qtr 4, 2002			Qtr 1, 2003			Q
					Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Apr
6	Final Remediation Report	89d	09/19/02	01/21/03																																	
6.1	Draft Final Remediation Report	45d	09/19/02	11/20/02																																	
6.2	Department Review	21d	11/21/02	12/19/02																																	
6.3	Final Remediation Report	23d	12/20/02	01/21/03																																	



FIGURE 4-2  
PROJECT TEAM ORGANIZATION CHART  
FOR  
REMEDIAL CONSTRUCTION INSPECTION  
FRANKLIN CLEANERS SITE  
HEMPSTEAD, NEW YORK



Dvirka and Bartilucci  
Consulting Engineers  
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## **5.0 SITE-SPECIFIC QUALITY ASSURANCE AND QUALITY CONTROL PLAN**

All sample analysis for the Franklin Cleaners Site will be conducted in accordance with the New York State Department of Environmental Conservation October 1995 Analytical Services Protocol (ASP). All other information which is not provided below regarding detailed sampling procedures and protocols, as well as other quality assurance and quality control (QA/QC) requirements, is provided in the draft Generic Work Plan dated February 1996.

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

The sampling program will consist of the following:

- Splits of soil samples collected by the contractor will be analyzed for volatile organic compounds. Two soil sampling events are anticipated to determine whether the soil cleanup objectives have been achieved. Each sampling event will consist of advancement of soil probes at three locations. One sample from each soil probe will be split with the contractor for a total of six samples.
- Splits of groundwater samples collected by the contractor will be analyzed for volatile organic compounds. The contractor will perform a baseline groundwater sampling event and final (confirmatory) sampling event. These two events will consist of collection of one sample from each of four groundwater monitoring wells. As a result, a total of eight split samples will be submitted for analysis.
- Splits of soil vapor samples collected by the contractor will be analyzed for volatile organic compounds. One round of samples collected by the contractor during the SVE Performance Test, one round of samples collected by the contractor during the Initial SVE Operating Period and one round of samples collected by the contractor during the Routine SVE Operating Period will be split. During each of the three rounds, the split samples will be collected from eight points as follows (for a total of 24 soil vapor samples): each of the three SVE well heads, each of the four vapor monitoring probes and at the outlet of the primary carbon vessel.

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



Table 5-1

**FRANKLIN CLEANERS SITE  
WORK PLAN  
REMEDIAL CONSTRUCTION INSPECTION  
SUMMARY OF MONITORING PARAMETERS**

<u>Sample Location</u>	<u>Sample Type</u>	<u>Sample Matrix</u>	<u>Sample Fraction</u>	<u>Number of Samples</u>	<u>Frequency</u>	<u>Container Type/Size/No.</u>	<u>Sample Preservation</u>	<u>Maximum Holding Time**</u>	<u>Analytical Method</u>
Soil Probes	Grab	Soil	Volatile Organics	3	2*	Glass, clear/4 oz./2 ICHEM 200 series or equivalent	Cool to 4°C	10 days for analysis	10/95 NYSDEC ASP Method 95-1

\*Two rounds of subsurface soil samples will be collected.

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



Table 5-1 (continued)

**FRANKLIN CLEANERS SITE  
WORK PLAN  
REMEDIAL CONSTRUCTION INSPECTION  
SUMMARY OF MONITORING PARAMETERS**

<u>Sample Location</u>	<u>Sample Type</u>	<u>Sample Matrix</u>	<u>Sample Fraction</u>	<u>Number of Samples</u>	<u>Frequency*</u>	<u>Container Type/Size/No.</u>	<u>Sample Preservation</u>	<u>Maximum Holding Time**</u>	<u>Analytical Method</u>
Monitoring Wells	Grab	Groundwater	Volatile Organics	4	2*	Glass, clear/40 mL/3 ICHM 300 series or equivalent	Cool to 4°C	7 days for analysis	10/95 NYSDEC ASP Method 95-1

\*Two rounds of groundwater samples will be collected.

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



Table 5-1 (continued)

**FRANKLIN CLEANERS SITE  
WORK PLAN  
REMEDIAL CONSTRUCTION INSPECTION  
SUMMARY OF MONITORING PARAMETERS**

<u>Sample Location</u>	<u>Sample Type</u>	<u>Sample Matrix</u>	<u>Sample Fraction</u>	<u>Number of Samples</u>	<u>Frequency*</u>	<u>Container Type/Size/No.</u>	<u>Sample Preservation</u>	<u>Maximum Holding Time**</u>	<u>Analytical Method</u>
Vapor monitoring probes, soil vapor extraction well heads and carbon vessel outlet.	Grab	Soil Vapor	Volatile Organics	8	3	Evacuated glass 40 ml vial	Cool to 4°C	7 days for analysis	AM4.02

\*Three rounds of soil vapor samples will be collected.

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



## 6.0 SITE-SPECIFIC HEALTH AND SAFETY PLAN

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

Site Name:	<u>Franklin Cleaners</u>
Address:	<u>206-208B South Franklin Street</u>
	<u>Village of Hempstead, New York</u>
Telephone:	<u>--</u>
Date of HASP Preparation:	<u>February 1999</u>
Dates of Inspection	<u>December 2000 to September 2002</u>
Entry Objectives:	<u>Inspect construction, startup, testing and</u>
	<u>monitoring of source area remediation.</u>

Site Organization Structure:	<u>Name</u>	<u>Phone</u>
Project Director:	<u>T. Maher</u>	<u>516-364-9890</u>
Project Manager:	<u>D. Glass</u>	<u>516-364-9890</u>
Health and Safety Officer (HSO):	<u>M. Ziskin</u>	<u>203-457-2100</u>
Field Personnel	<u>W. Mann</u>	<u>516-364-9890</u>

Subcontractor:	<u>MITKEM Corporation</u>	<u>401-732-4300</u>
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Medical Assistance:	
Physician:	<u>Dr. Ronald Rosen</u>
Address:	<u>269-11 76th Avenue - CCC Building</u>
	<u>Third Floor - Room 313</u>
	<u>New Hyde Park, NY 11042</u>
Telephone:	<u>718-470-4435</u>



Name of Hospital:	Mercy Hospital
Telephone:	516-255-0111
Directions:	South Franklin Street to Graham Avenue; turn right onto Graham Avenue and follow to Peninsula Boulevard; turn left onto Peninsula Boulevard and follow to North Village Avenue and Mercy Hospital (just south of Southern State Parkway) on left-hand side (see Figure 6-1).

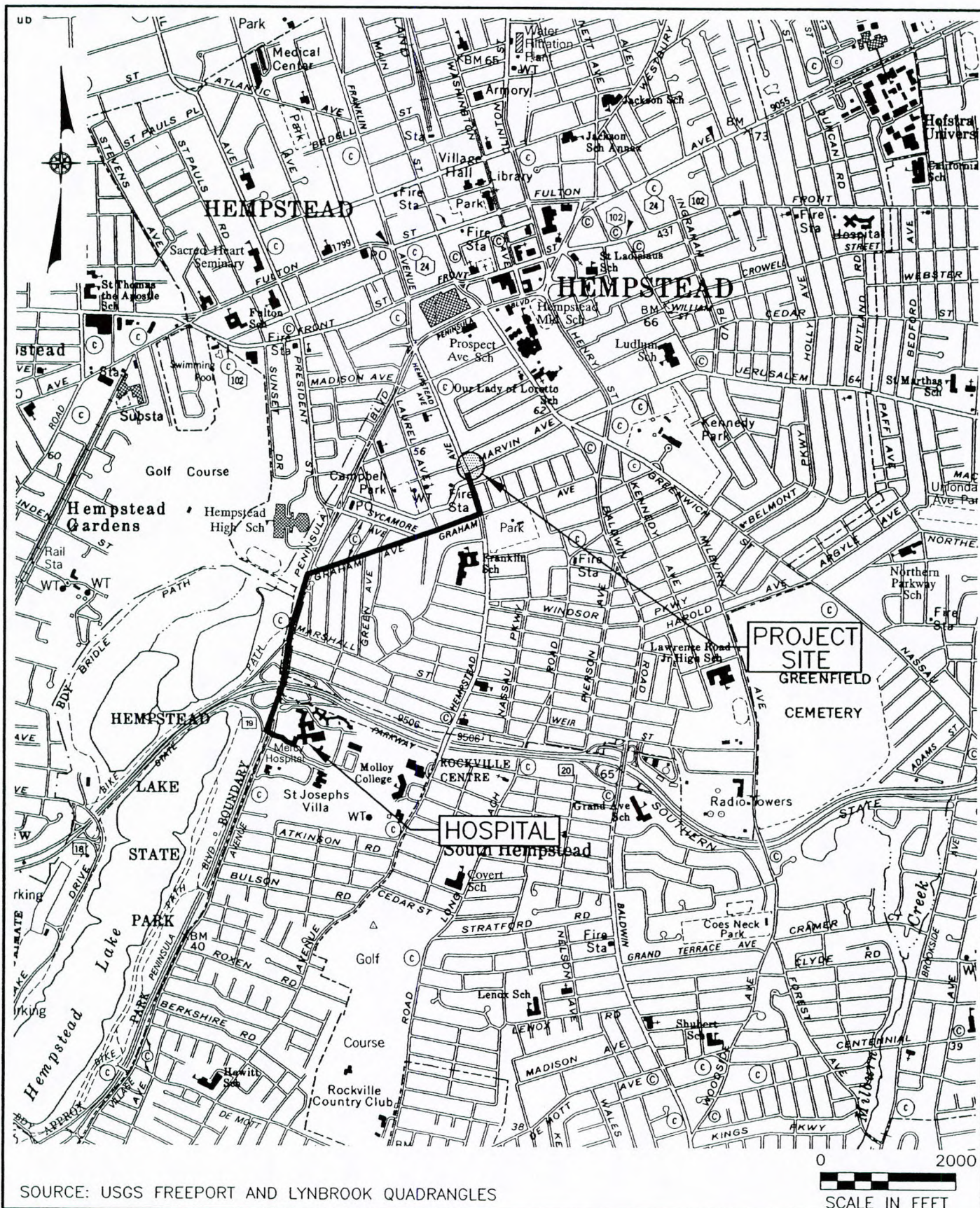
Emergency Telephones:

Agent/Facility	Telephone	Emergency Number
EMS - Ambulance	911	911
Police Department	516-483-6200	911
Fire Department	516-486-0012	911
Hospital	516-255-0111	--
Poison Control Center	516-542-2323	--

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

NOT APPLICABLE





FRANKLIN CLEANERS SITE  
TOWN OF HEMPSTEAD, NEW YORK

## HOSPITAL EMERGENCY ROUTE



Dvirka and Bartilucci  
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FIGURE 6-1



**7.0 SCHEDULE 2.11s**



Franklin Cleaners  
Work Assignment No. D003600-21  
Construction Inspection  
Labor Estimate

NAME/LABOR CLASSIFICATION	NSPE Level	Hourly Rate as of			Task 1 Work Plan Preparation		Task 2 Review of Contractor Submittals		Task 3 Construction Inspection		Task 4 QA/QC Sampling		Task 5 Quarterly Reports		Task 6 Closeout Report		Total Construction Insp (hours) (\$)	
		01-Jul 2000	01-Jul 2001	01-Jul 2002														
Thomas Maher Project Director	IX	\$60.04	\$61.84	\$63.70	1	\$60	2	\$120	4	\$240	1	\$62	2	\$124	2	\$124	12	\$729
David Glass Senior Engineer	VII	\$48.89	\$50.36	\$51.87	24	\$1,173	80	\$3,912	100	\$4,889	36	\$1,813	32	\$1,612	32	\$1,612	304	\$15,010
Michael Neuberger Senior Engineer	V	\$33.10	\$34.09	\$35.11	0	\$0	2	\$66	4	\$132	0	\$0	0	\$0	0	\$0	6	\$199
Robert O'Connor Senior Designer	V	\$33.10	\$34.09	\$35.11	0	\$0	2	\$66	4	\$132	0	\$0	0	\$0	0	\$0	6	\$199
Robbin Petrella Senior Scientist	V	\$33.10	\$34.09	\$35.11	2	\$66	4	\$132	0	\$0	4	\$136	0	\$0	0	\$0	10	\$335
Richard Avanzini Associate Technician	V	\$33.10	\$34.09	\$35.11	2	\$66	0	\$0	0	\$0	0	\$0	0	\$0	4	\$136	6	\$203
Wayne Mann Assist. Geologist	IV	\$27.95	\$28.79	\$29.65	40	\$1,118	160	\$4,473	728	\$20,351	88	\$2,534	64	\$1,843	80	\$2,303	1160	\$32,621
Keith Robins Assist. Geologist	IV	\$27.95	\$28.79	\$29.65	0	\$0	0	\$0	0	\$0	0	\$0	0	\$0	0	\$0	0	\$0
Lydda Glubiak Junior Drafter	II	\$22.02	\$22.68	\$23.36	0	\$0	0	\$0	0	\$0	0	\$0	0	\$0	0	\$0	0	\$0
Ginger Passalacqua Administrative Assistant	II	\$22.02	\$22.68	\$23.36	16	\$352	8	\$176	16	\$352	8	\$181	8	\$181	8	\$181	64	\$1,425
Allyson Manz Word Processor	II	\$22.02	\$22.68	\$23.36	16	\$352	16	\$352	16	\$352	8	\$181	8	\$181	16	\$363	80	\$1,783
Labor Subtotal (Direct Salary)					101	\$3,189	274	\$9,298	872	\$26,450	145	\$4,908	114	\$3,941	142	\$4,719	1648	\$52,503
Indirect Cost (1.583)						\$5,048		\$14,718		\$41,870		\$7,769		\$6,238		\$7,470		\$83,113
Profit (0.084)						\$692		\$2,017		\$5,739		\$1,065		\$855		\$1,024		\$11,392
TOTAL					101	\$8,928	274	\$26,033	872	\$74,058	145	\$13,741	114	\$11,034	142	\$13,213	1648	\$147,008



## SCHEDULE 2.11 (a)

### Summary of Work Assignment Price Franklin Cleaners Site

Work Assignment Number: D003600-21

1. Direct Salary Costs (Schedules 2.10 (a) and 2.11(b))	\$52,503
2. Indirect Costs (Schedule 2.10 (g))	\$83,113
3. Direct Non-Salary Costs (Schedules 2.11 (c) and (d))	\$3,531

#### Subcontract Costs

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

<u>Name of Subcontractor</u>	<u>Services To Be Performed</u>	<u>Subcontract Price</u>
1. None		<u>\$0</u>
4. Total Cost-Plus-Fixed-Fee Subcontracts		\$0

##### Unit Price Subcontracts (Schedules 2.11(f))

<u>Name of Subcontractor</u>	<u>Services To Be Performed</u>	<u>Subcontract Price</u>
1. Mitkem	Analytical Laboratory Services	<u>\$7,425</u>
5. Total Unit Price Subcontracts		\$7,425
6. Subcontract Management Fee		\$0
7. Total Subcontract Costs (lines 4 + 5 + 6)		\$7,425
8. Fixed Fee (Schedule 2.10 (h))		\$11,392
9. Total Work Assignment Price (lines 1 + 2 + 3 + 7 + 8)		\$157,964



**SCHEDULE 2.11 (b)1**  
**SUMMARY**  
Franklin Cleaners Site  
Work Assignment Number: D003600-21

NSPE	IX	VIII	VII	VI	V	IV	III	II	I	TOTAL HOURS
as of July 1, 2000	\$60.04	\$56.25	\$48.89	\$38.23	\$33.10	\$27.95	\$25.37	\$22.02	\$17.56	
as of July 1, 2001	\$61.84	\$57.94	\$50.36	\$39.38	\$34.09	\$28.79	\$26.13	\$22.68	\$18.09	
Task 1	1	0	24	0	4	40	0	32	0	101
Task 2	2	0	80	0	8	160	0	24	0	274
Task 3	4	0	100	0	8	728	0	32	0	872
Task 4	1	0	36	0	4	88	0	16	0	145
Task 5	2	0	32	0	0	64	0	16	0	114
Task 6	2	0	32	0	4	80	0	24	0	142
Subtotal 2000 Hours	7	0	204	0	20	928	0	88	0	1247
Subtotal 2001 Hours	5	0	100	0	8	232	0	56	0	401
Total Hours	12	0	304	0	28	1160	0	144	0	1648
Total Direct Labor Cost	\$729	\$0	\$15,010	\$0	\$935	\$32,621	\$0	\$3,208	\$0	\$52,503



SCHEDULE 2.11(b)2  
Franklin Cleaners Site  
Work Assignment Number: D003600-21  
BREAKDOWN OF ADMINISTRATIVE  
LOE HOURS

ADMIN ACTIVITY	WORK PLAN DEVELOPMENT														REVIEW WORK ASSIGNMENT (WA) PROGRESS																												
	Conflict of Interest Checks					Prepare 2.11 Schedules					Conduct Progress Reviews					Prepare Monthly Report & Update Schedules					MBE/WBE Activities					Program Management																	
NSPE	IX	VIII	VII	VI	V	IV	VIII	VII	VI	V	IV	III	II	I	VIII	VII	VI	V	IV	III	VIII	VII	VI	V	IV	III	II	I	VIII	VII	VI	V	IV	III	II	I	IX	VIII	VII	VI	V	IV	
TASK 1	0.5				0.5			4.0						4.0		0.5						0.5												0.5									
TASK 2																0.5						0.5																					
TASK 3																0.5						0.5																					
TASK 4																0.5						0.5																					
TASK 5																																											
TASK 6																																											
TOTAL	0.5	0.0	0.0	0.0	0.5	0.0	0.0	4.0	0.0	0.0	0.0	0.0	4.0	0.0	0.0	2.0	0.0	0.0	0.0	0.0	0.0	2.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.5	0.0	0.5	0.0	0.0	0.0	0.0	0.0		

ADMIN ACTIVITY	CAP PREPARATION												MISCELLANEOUS																								
	Prepare Monthly Cost Control Report & CAP								Oversee CAP				Update NSPE List								Equipment Use and Inventory				Word Processing and Report Preparation				Total Adm. LOE (hrs)								
NSPE	VIII	VII	VI	V	IV	III	II	I	IX	VIII	VII	VI	VIII	VII	VI	V	IV	III	II	I	IV	III	II	I	IV	III	II	I	IX	VIII	VII	VI	V	IV	III	II	I
TASK 1							8																						0.5	0.0	5.0	0.0	0.5	0.0	0.0	12.5	0.0
TASK 2							4																						0.0	0.0	1.0	0.0	0.0	0.0	0.0	4.0	0.0
TASK 3							8																						0.0	0.0	1.0	0.0	0.0	0.0	0.0	6.0	0.0
TASK 4							2		0.5																			1.0	0.0	1.0	0.0	0.0	0.0	0.0	2.0	0.0	
TASK 5							4																						0.0	0.0	0.0	0.0	0.0	0.0	0.0	4.0	0.0
TASK 6							4																						0.0	0.0	0.0	0.0	0.0	0.0	0.0	4.0	0.0
TOTAL	0.0	0.0	0.0	0.0	0.0	0.0	30.0	0.0	0.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.5	0.0	8.0	0.0	0.5	0.0	0.0	34.5	0.0



**SCHEDULE 2.11 (c)**  
**DIRECT NON-SALARY COSTS**  
 Franklin Cleaners Site  
 Work Assignment Number: D003600-21

ITEM	MAXIMUM REIMBURSEMENT RATE	UNIT	ESTIMATED NUMBER OF UNITS	TOTAL ESTIMATED COSTS
OUTSIDE SERVICES				
Sample Shipping	\$75.00	package	7	\$525.00
Express Mail	\$50.00	package	4	\$200.00
	\$80.00	package	0	\$0.00
Photographs/Slides	\$200.00	lump sum	1	\$200.00
Printing	\$50.00	report	22	\$1,100.00
TRAVEL				
Transportation (Personal Car)	\$0.325	mile	3096	\$1,006.20
Tolls	\$20.00	trip	0	\$0.00
Van Rental	\$330.00	week	0	\$0.00
Gas	\$20.00	week	0	\$0.00
TOTAL DIRECT NON-SALARY COSTS				\$3,031.20



Schedule 2.11 (c)2  
Direct Non-Salary Costs  
Franklin Cleaners Site  
Work Assignment Number: D003600-21

Item	Reimbursement* Rate	Est. No. of Units (Task 1)	Total Cost (Task 1)	Est. No. of Units (Task 2)	Total Cost (Task 2)	Est. No. of Units (Task 3)	Total Cost (Task 3)	Est. No. of Units (Task 4)	Total Cost (Task 4)	Est. No. of Units (Task 5)	Total Cost (Task 5)	Est. No. of Units (Task 6)	Total Cost (Task 6)	Total Estimated No. of Units	Total Estimated Cost
A. Miscellaneous (Travel)															
1. Transportation	\$0.325 /mile	0	\$0.00	0	\$0.00	2844	\$924.30	252	\$81.90	0	\$0.00	0	\$0.00	3096	\$1,006.20
2. Tolls	\$20.00 /trip	0	\$0.00	0	\$0.00	0	\$0.00	0	\$0.00	0	\$0.00	0	\$0.00	0	\$0.00
3. Van Rental	\$330.00 /week	0	\$0.00	0	\$0.00	0	\$0.00	0	\$0.00	0	\$0.00	0	\$0.00	0	\$0.00
4. Gas	\$20.00 /week	0	\$0.00	0	\$0.00	0	\$0.00	0	\$0.00	0	\$0.00	0	\$0.00	0	\$0.00
Subtotal (Travel)			\$0.00		\$0.00		\$924.30		\$81.90		\$0.00		\$0.00		\$1,006.20
B. Miscellaneous (Expenses)															
1. Sample Shipping	\$75.00 /package	0	\$0.00	0	\$0.00	0	\$0.00	7	\$525.00	0	\$0.00	0	\$0.00	7	\$525.00
2. Express Mail	\$50.00 /package	2	\$100.00	0	\$0.00	0	\$0.00	0	\$0.00	0	\$0.00	2	\$100.00	4	\$200.00
	\$80.00 /package	0	\$0.00	0	\$0.00	0	\$0.00	0	\$0.00	0	\$0.00	0	\$0.00	0	\$0.00
3. Photographs/Slides	\$200.00 Lump Sum	0	\$0.00	0	\$0.00	1	\$200.00	0	\$0.00	0	\$0.00	0	\$0.00	1	\$200.00
4. Printing	\$50.00 /report	10	\$500.00	0	\$0.00	0	\$0.00	0	\$0.00	0	\$0.00	12	\$600.00	22	\$1,100.00
Subtotal (Misc. Expenses)			\$600.00		\$0.00		\$200.00		\$525.00		\$0.00		\$700.00		\$2,025.00
TOTAL			\$600.00		\$0.00		\$1,124.30		\$606.90		\$0.00		\$700.00		\$3,031.20

\* See Schedule 2.10(b) for rates.



**SCHEDULE 2.11 (d)1**

**EQUIPMENT PURCHASED UNDER THE CONTRACT**

Franklin Cleaners Site

Work Assignment Number: D003600-21

ITEM	ESTIMATED PURCHASE PRICE	O&M RATE (\$/per month)	TERM OF USAGE (MONTHS)	ESTIMATED USAGE COST (COL. 2 + [3X4])
None				
			TOTAL	\$0



**SCHEDULE 2.11 (d)2**  
**EQUIPMENT**  
**CONSULTANT OWNED**  
 Franklin Cleaners Site  
 Work Assignment Number: D003600-21

ITEM	PURCHASE PRICE X 85%	USAGE RATE (\$/day)	CAPITAL RECOVERY RATE (\$/Unit of Time)	O & M RATE (\$/Unit of Time)	ESTIMATED USAGE (days)	ESTIMATED USAGE COST (Col. 3x6)
None						
					TOTAL	\$0

Notes:

Usage Rate = Capital Recovery Rate + O&M rate

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



**SCHEDULE 2.11 (d)3**  
**EQUIPMENT**  
**VENDOR RENTED**  
 Franklin Cleaners Site  
 Work Assignment Number: D003600-21

ITEM	MAXIMUM REIMBURSEMENT RATE	TIME PERIOD	ESTIMATED USAGE (period of time)	ESTIMATED USAGE COST (Col. 2 X 3)
None				
			Total	\$0



**SCHEDULE 2.11 (d)4**

**EXPENDABLE SUPPLIES**

Franklin Cleaners Site

Work Assignment Number: D003600-21

ITEM	ESTIMATED QUANTITY	UNITS	UNIT COST	TOTAL BUDGETED COST (COL. 2 X 3)
None				
			TOTAL	\$0



**SCHEDULE 2.11 (d)5**  
**CONSUMABLE SUPPLIES**  
 Franklin Cleaners Site  
 Work Assignment Number: D003600-21

ITEM	ESTIMATED QUANTITY	UNIT COST	TOTAL BUDGETED COST (COL. 2 X 3)
Miscellaneous Supplies	1	\$500.00 Lump sum	\$500.00
		TOTAL	\$500.00



SCHEDULE 2.11 (f) 1  
UNIT PRICE SUBCONTRACTS  
Franklin Cleaners Site  
Work Assignment No. D003600-21

NAME OF SUBCONTRACTOR	SERVICES TO BE PERFORMED	SUBCONTRACT PRICE	MANAGEMENT FEE
Mitkem	Chemical Sample Analysis	\$7,425	\$0

<u>Item</u>	<u>Method</u>	<u>Maximum Reimbursement Rate</u>	<u>Estimated No. of Units</u>	<u>Total Estimated Costs</u>
<u>Groundwater</u>				
VOCs	ASP 95-1	\$110 /sample	4	\$440
VOCs	ASP 95-1	\$138 /sample (1)	4	\$550
<u>Subsurface soil</u>				
VOCs	95-1	\$193 /sample (2)	6	\$1,155
<u>Air/Gases</u>				
VOCs	AM4.02	\$220 /sample	24	\$5,280

SUBTOTAL	\$7,425
SUBCONTRACT MANAGEMENT FEE	\$0
TOTAL	\$7,425

- (1) Cost includes surcharge for 7- day turnaround  
(2) Cost includes surcharge for 48 hour turn-around



Project Name: Franklin Cleaners Site  
 Work Assignment Number: D003600-21  
 Task No./Name: All Tasks  
 Complete: 0.00%

**SCHEDULE 2.11 (g)**  
**MONTHLY COST CONTROL REPORT**  
**SUMMARY**

Date Prepared:  
 Billing Period:  
 Invoice No.:

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

Expenditure Category	A Costs Claimed This Period	B Paid To Date	C Total Disallowed To Date	D Total Costs Incurred To Date (A+B+B1)	E Estimated Costs To Completion	F Total Work Assignment Price (A+B+E)	G Approved Budget	H Estimated Under/(Over) (G-F)
1. Direct Salary Costs	0.00	0.00	0.00	0.00	0.00	0.00	52,503	0.00
2. Indirect	0.00	0.00	0.00	0.00	0.00	0.00	83,113	0.00
3. Subtotal Direct Salary Costs and Indirect Costs	0.00	0.00	0.00	0.00	0.00	0.00	135,616	0.00
4. Travel	0.00	0.00	0.00	0.00	0.00	0.00	1,006	0.00
5. Other Non-Salary Costs	0.00	0.00	0.00	0.00	0.00	0.00	2,525	0.00
6. Subtotal Direct Non-Salary Costs	0.00	0.00	0.00	0.00	0.00	0.00	3,531	0.00
7. Subcontractors	0.00	0.00	0.00	0.00	0.00	0.00	7,425	0.00
8. Total Task Cost	0.00	0.00	0.00	0.00	0.00	0.00	146,573	0.00
9. Fixed Fee	0.00	0.00	0.00	0.00	0.00	0.00	11,392	0.00
10. Total Price	0.00	0.00	0.00	0.00	0.00	0.00	157,964	0.00

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

Date \_\_\_\_\_



Engineer: Dvirka & Bartilucci  
 Work Assignment Number: D003600-21  
 Project Name: Franklin Cleaners Site  
 Work Assignment Number: D003600-21

**SCHEDULE 2.11(g) SUPPLEMENTAL  
 MONTHLY COST CONTROL REPORT  
 SUBCONTRACTS**

Date Prepared:  
 Billing Period:  
 Invoice No.:

<u>Subcontract Name</u>	<u>Subcontract Costs Claimed this Application Including Resubmittals</u>	<u>Subcontract Costs Approved for Payment on Previous Application</u>	<u>Total Subcontract Costs to Date (A plus B)</u>	<u>Subcontract Approved Budget</u>	<u>Management Fee Budget</u>	<u>Management Fee Paid</u>	<u>Total Costs to Date</u>
1. Mitkem (MBE)	0.00	0.00	0.00	7,425.00	0.00	0.00	0.00
Total				7,425.00	0.00		



**SCHEDULE 2.11 (g)**

Project Name: Franklin Cleaners Site  
 Work Assignment Number: D003600-21  
 Task No./Name: 1/ Work Plan Preparation  
 Complete: 0.00%

Date Prepared:  
 Billing Period:  
 Invoice No.:

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

Expenditure Category	A Costs Claimed This Period	B Paid To Date	C Total Disallowed To Date	D Total Costs Incurred To Date (A+B+B1)	E Estimated Costs To Completion	F Total Work Assignment Price (A+B+E)	G Approved Budget	H Estimated Under/(Over) (G-F)
1. Direct Salary Costs	0.00	0.00	0.00	0.00	0.00	0.00	3,189	0.00
2. Indirect	0.00	0.00	0.00	0.00	0.00	0.00	5,048	0.00
3. Subtotal Direct Salary Costs and Indirect Costs	0.00	0.00	0.00	0.00	0.00	0.00	8,237	0.00
4. Travel	0.00	0.00	0.00	0.00	0.00	0.00	0	0.00
5. Other Non-Salary Costs	0.00	0.00	0.00	0.00	0.00	0.00	600	0.00
6. Subtotal Direct Non-Salary Costs	0.00	0.00	0.00	0.00	0.00	0.00	600	0.00
7. Subcontractors	0.00	0.00	0.00	0.00	0.00	0.00	0	0.00
8. Total Task Cost	0.00	0.00	0.00	0.00	0.00	0.00	8,837	0.00
9. Fixed Fee	0.00	0.00	0.00	0.00	0.00	0.00	692	0.00
10. Total Task Price	0.00	0.00	0.00	0.00	0.00	0.00	9,528	0.00

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

Date \_\_\_\_\_



Project Name: Franklin Cleaners Site  
 Work Assignment Number: D003600-21  
 Task No./Name: 2/ Review of Contractor Submittals  
 Complete: 0.00%

**SCHEDULE 2.11(g)**

Date Prepared:  
 Billing Period:  
 Invoice No.:

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

Expenditure Category	A Costs Claimed This Period	B Paid To Date	C Total Disallowed To Date	D Total Costs Incurred To Date (A+B+B1)	E Estimated Costs To Completion	F Total Work Assignment Price (A+B+E)	G Approved Budget	H Estimated Under/(Over) (G-F)
1. Direct Salary Costs	0.00	0.00	0.00	0.00	0.00	0.00	9,298	0.00
2. Indirect	0.00	0.00	0.00	0.00	0.00	0.00	14,718	0.00
3. Subtotal Direct Salary Costs and Indirect Costs	0.00	0.00	0.00	0.00	0.00	0.00	24,016	0.00
4. Travel	0.00	0.00	0.00	0.00	0.00	0.00	0	0.00
5. Other Non-Salary Costs	0.00	0.00	0.00	0.00	0.00	0.00	0	0.00
6. Subtotal Direct Non-Salary Costs	0.00	0.00	0.00	0.00	0.00	0.00	0	0.00
7. Subcontractors	0.00	0.00	0.00	0.00	0.00	0.00	0	0.00
8. Total Task Cost	0.00	0.00	0.00	0.00	0.00	0.00	24,016	0.00
9. Fixed Fee	0.00	0.00	0.00	0.00	0.00	0.00	2,017	0.00
10. Total Task Price	0.00	0.00	0.00	0.00	0.00	0.00	26,033	0.00

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

Date \_\_\_\_\_



Project Name: Franklin Cleaners Site  
 Work Assignment Number: D003600-21  
 Task No./Name: 3/ Construction Inspection  
 Complete: 0.00%

**SCHEDULE 2.11(g)**

Date Prepared:  
 Billing Period:  
 Invoice No.:

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

Expenditure Category	A Costs Claimed This Period	B Paid To Date	C Total Disallowed To Date	D Total Costs Incurred To Date (A+B+B1)	E Estimated Costs To Completion	F Total Work Assignment Price (A+B+E)	G Approved Budget	H Estimated Under/(Over) (G-F)
1. Direct Salary Costs	0.00	0.00	0.00	0.00	0.00	0.00	26,450	0.00
2. Indirect	0.00	0.00	0.00	0.00	0.00	0.00	41,870	0.00
3. Subtotal Direct Salary Costs and Indirect Costs	0.00	0.00	0.00	0.00	0.00	0.00	68,320	0.00
4. Travel	0.00	0.00	0.00	0.00	0.00	0.00	924	0.00
5. Other Non-Salary Costs	0.00	0.00	0.00	0.00	0.00	0.00	700	0.00
6. Subtotal Direct Non-Salary Costs	0.00	0.00	0.00	0.00	0.00	0.00	1,624	0.00
7. Subcontractors	0.00	0.00	0.00	0.00	0.00	0.00	0	0.00
8. Total Task Cost	0.00	0.00	0.00	0.00	0.00	0.00	69,944	0.00
9. Fixed Fee	0.00	0.00	0.00	0.00	0.00	0.00	5,739	0.00
10. Total Task Price	0.00	0.00	0.00	0.00	0.00	0.00	75,683	0.00

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

Date \_\_\_\_\_



Project Name: Franklin Cleaners Site  
 Work Assignment Number: D003600-21  
 Task No./Name: 4/ QA/QC Sampling  
 Complete: 0.00%

**SCHEDULE 2.11(g)**

Date Prepared:  
 Billing Period:  
 Invoice No.:

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

Expenditure Category	A Costs Claimed This Period	B Paid To Date	C Total Disallowed To Date	D Total Costs Incurred To Date (A+B+B1)	E Estimated Costs To Completion	F Total Work Assignment Price (A+B+E)	G Approved Budget	H Estimated Under/(Over) (G-F)
1. Direct Salary Costs	0.00	0.00	0.00	0.00	0.00	0.00	4,908	0.00
2. Indirect	0.00	0.00	0.00	0.00	0.00	0.00	7,769	0.00
3. Subtotal Direct Salary Costs and Indirect Costs	0.00	0.00	0.00	0.00	0.00	0.00	12,676	0.00
4. Travel	0.00	0.00	0.00	0.00	0.00	0.00	82	0.00
5. Other Non-Salary Costs	0.00	0.00	0.00	0.00	0.00	0.00	525	0.00
6. Subtotal Direct Non-Salary Costs	0.00	0.00	0.00	0.00	0.00	0.00	607	0.00
7. Subcontractors	0.00	0.00	0.00	0.00	0.00	0.00	7,425	0.00
8. Total Task Cost	0.00	0.00	0.00	0.00	0.00	0.00	20,708	0.00
9. Fixed Fee	0.00	0.00	0.00	0.00	0.00	0.00	1,065	0.00
10. Total Task Price	0.00	0.00	0.00	0.00	0.00	0.00	21,773	0.00

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

Date \_\_\_\_\_



Project Name: Franklin Cleaners Site  
 Work Assignment Number: D003600-21  
 Task No./Name: 5/ Quarterly Reports  
 Complete: 0.00%

**SCHEDULE 2.11(g)**

Date Prepared:  
 Billing Period:  
 Invoice No.:

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

Expenditure Category	A Costs Claimed This Period	B Paid To Date	C Total Disallowed To Date	D Total Costs Incurred To Date (A+B+B1)	E Estimated Costs To Completion	F Total Work Assignment Price (A+B+E)	G Approved Budget	H Estimated Under/(Over) (G-F)
1. Direct Salary Costs	0.00	0.00	0.00	0.00	0.00	0.00	3,941	0.00
2. Indirect	0.00	0.00	0.00	0.00	0.00	0.00	6,238	0.00
3. Subtotal Direct Salary Costs and Indirect Costs	0.00	0.00	0.00	0.00	0.00	0.00	10,179	0.00
4. Travel	0.00	0.00	0.00	0.00	0.00	0.00	0	0.00
5. Other Non-Salary Costs	0.00	0.00	0.00	0.00	0.00	0.00	0	0.00
6. Subtotal Direct Non-Salary Costs	0.00	0.00	0.00	0.00	0.00	0.00	0	0.00
7. Subcontractors	0.00	0.00	0.00	0.00	0.00	0.00	0	0.00
8. Total Task Cost	0.00	0.00	0.00	0.00	0.00	0.00	10,179	0.00
9. Fixed Fee	0.00	0.00	0.00	0.00	0.00	0.00	855	0.00
10. Total Task Price	0.00	0.00	0.00	0.00	0.00	0.00	11,034	0.00

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

Date \_\_\_\_\_



Project Name: Franklin Cleaners Site  
 Work Assignment Number: D003600-21  
 Task No./Name: 6/ Closeout Report  
 Complete: 0.00%

**SCHEDULE 2.11(g)**

Date Prepared:  
 Billing Period:  
 Invoice No.:

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

Expenditure Category	A Costs Claimed This Period	B Paid To Date	C Total Disallowed To Date	D Total Costs Incurred To Date (A+B+B1)	E Estimated Costs To Completion	F Total Work Assignment Price (A+B+E)	G Approved Budget	H Estimated Under/(Over) (G-F)
1. Direct Salary Costs	0.00	0.00	0.00	0.00	0.00	0.00	4,719	0.00
2. Indirect	0.00	0.00	0.00	0.00	0.00	0.00	7,470	0.00
3. Subtotal Direct Salary Costs and Indirect Costs	0.00	0.00	0.00	0.00	0.00	0.00	12,189	0.00
4. Travel	0.00	0.00	0.00	0.00	0.00	0.00	0	0.00
5. Other Non-Salary Costs	0.00	0.00	0.00	0.00	0.00	0.00	700	0.00
6. Subtotal Direct Non-Salary Costs	0.00	0.00	0.00	0.00	0.00	0.00	700	0.00
7. Subcontractors	0.00	0.00	0.00	0.00	0.00	0.00	0	0.00
8. Total Task Cost	0.00	0.00	0.00	0.00	0.00	0.00	12,889	0.00
9. Fixed Fee	0.00	0.00	0.00	0.00	0.00	0.00	1,024	0.00
10. Total Task Price	0.00	0.00	0.00	0.00	0.00	0.00	13,913	0.00

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

Date \_\_\_\_\_



## SCHEDULE 2.11 (h)

Project Name: Franklin Cleaners Site  
 Work Assignment Number: D003600-21

Date Prepared:  
 Billing Period  
 Invoice No.

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

NSPE Labor Classification	IX EXP/EST	VIII EXP/EST	VII EXP/EST	VI EXP/EST	V EXP/EST	IV EXP/EST	III EXP/EST	I & II EXP/EST	ADMIN/ SUPPORT	TOTAL NUMBER OF DIRECT LABOR HOURS EXP/EST
Task 1	0/ 1	0/ 0	0/ 24	0/ 0	0/ 4	0/ 40	0/ 0	0/ 32	0/ 0	0/ 101
Task 2	0/ 2	0/ 0	0/ 80	0/ 0	0/ 8	0/ 160	0/ 0	0/ 24	0/ 0	0/ 274
Task 3	0/ 4	0/ 0	0/ 100	0/ 0	0/ 8	0/ 728	0/ 0	0/ 32	0/ 0	0/ 872
Task 4	0/ 1	0/ 0	0/ 36	0/ 0	0/ 4	0/ 88	0/ 0	0/ 16	0/ 0	0/ 145
Task 5	0/ 2	0/ 0	0/ 32	0/ 0	0/ 0	0/ 64	0/ 0	0/ 16	0/ 0	0/ 114
Task 6	0/ 2	0/ 0	0/ 32	0/ 0	0/ 4	0/ 80	0/ 0	0/ 24	0/ 0	0/ 142
Total Hours	0/ 12	0/ 0	0/ 304	0/ 0	0/ 28	0/ 1160	0/ 0	0/ 144	0/ 0	0/ 1648



MBE/WBE  
UTILIZATION PLAN  
Franklin Cleaners Site  
Work Assignment Number: D003600-21

<u>Areas to be Subcontracted</u>	<u>Subcontractor Name</u>	<u>MBE/WBE</u>	<u>Total Subcontract Value</u>	<u>% MBE/WBE Utilization</u>
1. Mitkem	Laboratory Services	MBE	\$7,425.00	4.70%
Total MBE Utilization	<u>MBE Subcontract Value</u> Total Contract Value	=	<u>\$7,425</u> \$157,964	4.70%
Total WBE Utilization	<u>WBE Subcontract Value</u> Total Contract Value	=	<u>\$0</u> \$157,964	0.0%



TO: Michael J. O'Toole, Jr., Director, Division of Hazardous Waste Remediation  
FROM: Robert C. Knizek, Chief, Eastern Field Services  
THRU: H. Richard Koelling, Director, Bureau of Construction Services  
SUBJECT: Work Assignment D003600-31 Amendment - Conceptual Approval Under the State  
Superfund Standby Contracts- Frarklin Cleaners Site No. 1-30-050 for Dvirka &  
Bartilucci  
DATE:

Approvals: Contract Section: \_\_\_\_\_ Date: \_\_\_\_\_

Division Director : \_\_\_\_\_ Date: \_\_\_\_\_

Attached is a copy of the proposed amendment to the Standby Contract Work Assignment for engineering services with Dvirka & Bartilucci in connection with the oversight of the design-build soil vapor extraction and air sparging system at the subject site. By this amendment, oversight for the groundwater extraction phase of the remediation will be included in the

The total work assignment cost estimate is \$ 58,100

***Fund Name and Cost Center :***

Fund Name : 1986 EQBA  
Cost Center: To Be Assigned

***General Discussion and Justification (Background, Purpose)***

***Summary and Background***

This is a new work assignment continues the work that D&B has been performing in conjunction with the site. The construction for this site involved a design build system that requires the contractor to submit plans in conformance with the general design parameters and goals established in the contract. This WA covers the review those plans as well as the oversight of the construction and the periodic performance monitoring

***Scope of Work***

The subject WA provides for review of the contractor submitted engineered plans for the treatment systems, the oversight of the construction and the oversight/review of operational aspects of the treatment systems.

The contractor is required to submit plans prepared by a New York Licensed Professional Engineer which conforms to the design and performance parameters established in the construction contract. These parameters were established in the design report prepared by Dvirka & Bartilucci.



This amendment incorporates the oversight of the second construction project within the same operable unit for this site. Remedial work at the source and at the far end of the plume are occurring at the same time under separate construction contracts. It is more efficient to have the oversight performed by the same personnel.

***Alternative :***

No other feasible method exists to accomplish the work with State personnel or equipment.

***Affirmative Action Issue :***

MBE Goal = 15%

WBE Goal = 5%

EEO Goal = 10% female, 10% minority

***DEC Organizational Units and/or State Agencies Involved :***

Division of Environmental Enforcement  
New York State Department of Health

Division of Environmental Remediation

***DEC Attorney and Potential Legal Issues :***

Contract Attorney :	M. Murray
Program Attorney :	J Eckl

Attachments

cc: w/ attachments  
R. Lupe /S. Gupta - Contract Sec  
D. Norvik  
B. Moulhem  
W. Parrish, Reg 1  
J. Yavonditte



bcc: wo/attachments  
H.R. Koelling  
R. Knizek  
D. Weigel



**STANDBY CONTRACT WORK ASSIGNMENT  
TYPE OF CONTRACT: COST PLUS FIXED FEE**

Site Name and Number : Franklin Cleaners, #1-30-050  
NYSDEC Project Manager : Joe Yavonditte

Narrative

General Site Information

The Franklin Cleaners Site is located at 206-208B South Franklin Street, Hempstead, New York. The remedial measures in the construction contract are intended to address the source area by use of soil vapor extraction and air sparging. The contract was set-up as a design build system requiring the contractor to submit engineered plans for the treatment systems.

Scope of Work

The Department does not have adequate staff to review the contractor submittals and provide oversight during the installation and operation of the treatment system. As the parameters for the design and operation of the treatment systems were developed by D&B, it is appropriate that D&B continue in the oversight role for this project. This work assignment will cover the majority (and possibly all) of the operational period covered in the construction contract.

Task 1. Work Plan Preparation

The engineer shall develop and submit for the Department's review and approval a proposed work plan that includes, at a minimum, a description of the major tasks and subtasks; a schedule with milestones and deliverables; a staffing plan, a budget; a M/WBE utilization plan; and a list of proposed subcontractors. The proposed work plan must address each of the tasks outlined below.

Task 2. Review of Contractor Submittals

The engineer shall review and comment on the submittals made by the contractor and advises the project manager of its recommendations. This will include as a minimum the following:

The normally required submittals generated as part of the construction contract letting process.

The design submittals required in the contract.

The sampling and analysis and the associated QA/QC plan.



Task 3 Construction Oversight

The engineer shall provide qualified personnel to oversee all construction activities including the installation of the soil vapor extraction and air sparge systems. The engineer shall also provide oversight during the start-up and testing of each system and during the initial sampling rounds.

Task 3 QA/QC Sampling

If appropriate, the engineer may be asked to take confirmatory samples at various points during the treatment phase. This will include sample prior to any decision to terminate treatment.

Task 4 Quarterly Reports

The engineer shall review and summarize the data submitted by the contractor and make appropriate recommendations with respect to the continuation of treatment process.

Task 5 Closeout Report

The engineer shall prepare a final closeout report indicating that the work performed by the contractor was completed in compliance with the contract documents and the treatment processes has met the goals or was terminated at the direction of the Department. A New York licensed Professional Engineer shall sign such report.

Level of Effort and Cost Estimate

Major Tasks	Description	LOE Estimate (Hours)	Cost Estimate (\$)
Task 1	Work Plan Preparation	35	\$2800
Task 2	Review of Contractor Submittals	100	8000
Task 3	Construction Oversight	400	32000
	Confirmation Sampling (50 samples)		5000
Task 4	Quarterly Reports	80	6400
Task 5	Closeout Report	40	1600
	Fixed Fee		2300



Total

655

\$58100

Period of Performance

This work assignment shall be completed within 500 days of the Notice to Proceed. Completion of WA is dependent on the perform

Work Plan Development Cost Authorization

\$2800

Project Schedule with Designated Milestones and Deliverables

Milestone/Deliverable	Schedule
1. Issuance of Work Assignment	9/1/00
2. Submission of Work Plan	9/11/00
3. Completion of Contract Submittal Review	9/14/00
4. Beginning of Contractor Oversight	10/16/00
5. First Quarterly Operational Report	2/28/01
6. Closeout Report (only approximate)	3/31/02