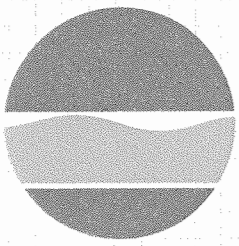
REMEDIAL DESIGN WORK PLAN



FUMEX SANITATION SITE
GARDEN CITY PARK
NASSAU COUNTY, NEW YORK
(SITE NO. 1-30-041)

WORK ASSIGNMENT NO. D003600-50

Prepared For

New York State Department of Environmental Conservation

MARCH 2006

DVIRKA AND BARTILUCCI
CONSULTING ENGINEERS
A DIVISION OF WILLIAM F. COSULICH ASSOCIATES, P.C.

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Prepared for:

NEW YORK STATE DEPARTMENT OF
ENVIRONMENTAL CONSERVATION

Prepared by:

DVIRKA AND BARTILUCCI CONSULTING ENGINEERS
WOODBURY, NEW YORK

MARCH 2006

REMEDIAL DESIGN PLAN
FUMEX SANITATION SITE
GARDEN CITY PARK, NEW YORK

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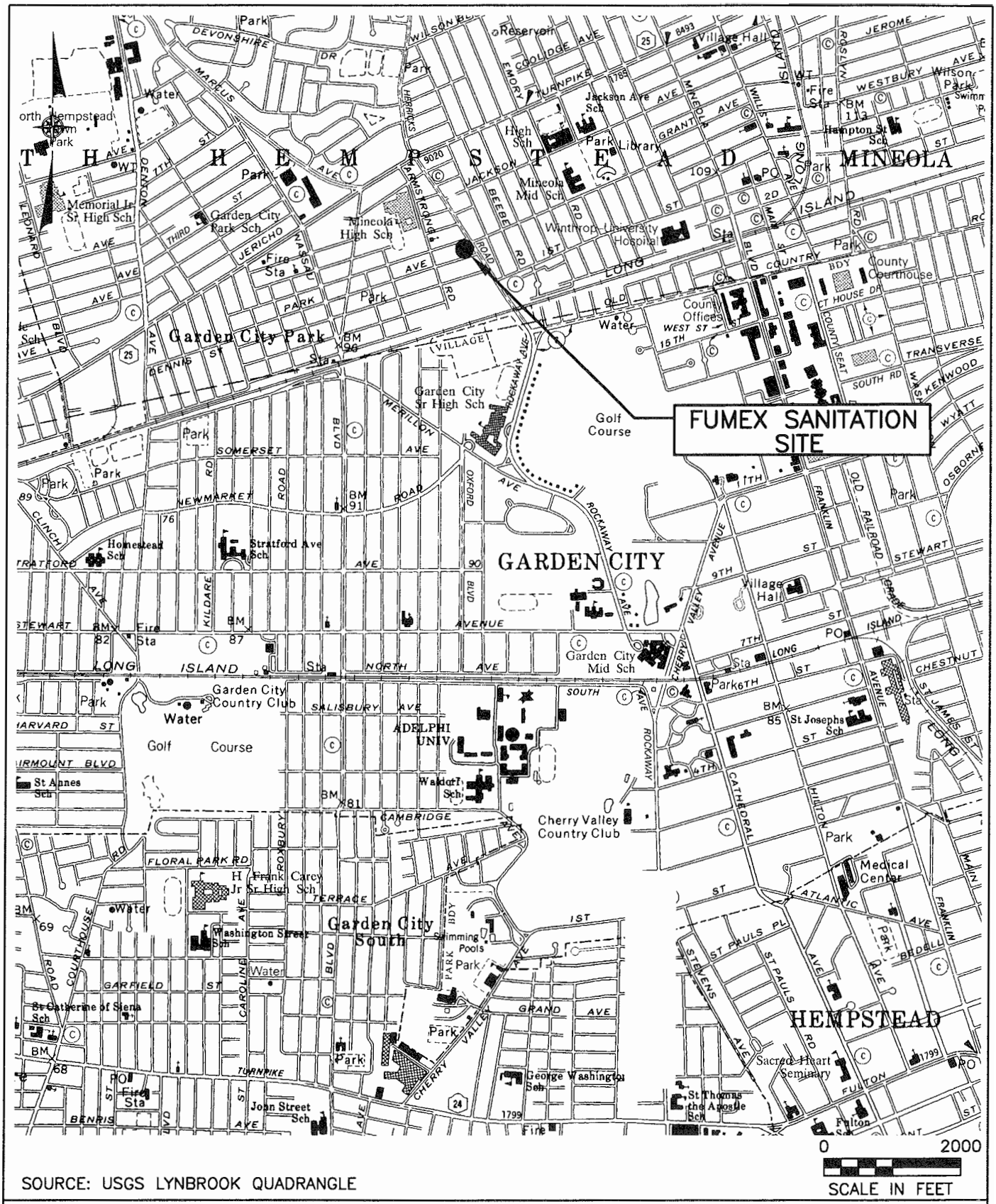
1.0 INTRODUCTION

As part of New York State's program to investigate and remediate hazardous waste sites, the New York State Department of Environmental Conservation (NYSDEC) has issued a work assignment to Dvirka and Bartilucci Consulting Engineers of Woodbury, New York, under its Superfund Standby Contract with the NYSDEC to provide design services for remediation of the former Fumex Sanitation (Fumex) Site. The site is located at 131 Herricks Road in Garden City Park, Town of North Hempstead, Nassau County, New York (see Figure 1-1). The site is a Class 2 New York State Superfund site, Registry No. 1-30-041. The scope of work includes:

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

This Work Plan includes a detailed description of tasks, schedule and budget for the project. The work plan also identifies key project milestones and presents the project team organizational structure. The work described in this Work Plan is being performed with funds allocated under the New York State Superfund Program.



SOURCE: USGS LYNBROOK QUADRANGLE

FUMEX SANITATION SITE
GARDEN CITY PARK, NEW YORK

SITE LOCATION MAP

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FIGURE 1-1

2.0 BACKGROUND INFORMATION

2.1 Site Location and Description

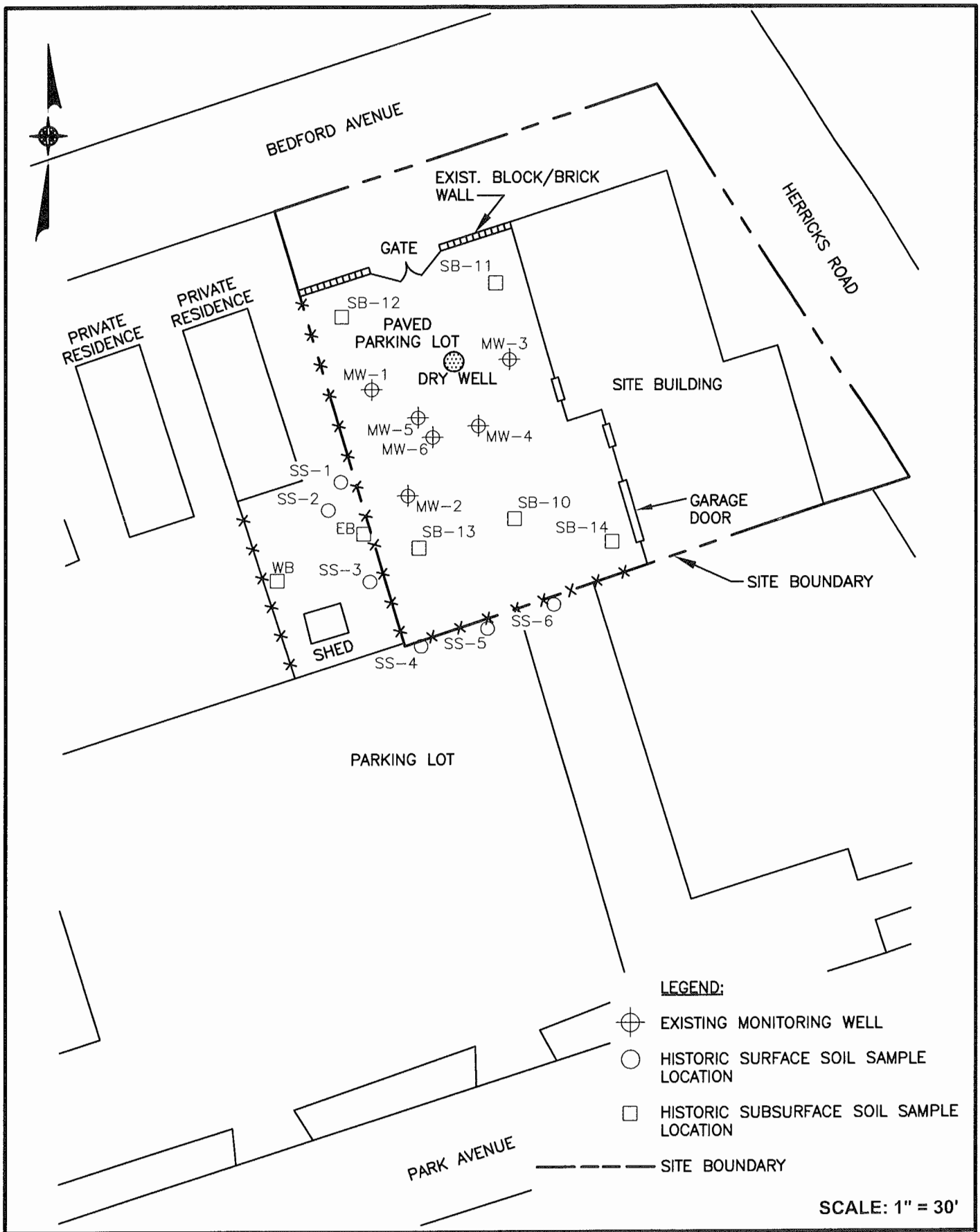
The Fumex Site is an inactive hazardous waste disposal site located at 131 Herricks Road in Garden City Park, Town of North Hempstead, Nassau County, New York. The property is approximately 1/3 acre in size and includes a one-story brick building and a paved parking area in the rear. The site was historically occupied by Fumex Sanitation, Inc., a commercial termite extermination business.

The site is bordered by Bedford Avenue to the north, Herricks Road to the east, and a commercial building, United Refrigeration, to the south. Residential properties border the site to the southwest and west. The site layout and surrounding properties are shown on Figure 2-1.

The property is relatively flat, and the rear parking lot gently slopes to facilitate drainage into an on-site dry well. During a site inspection, it was noted that several roof drains are apparently connected to the dry well via underground piping. The southern and western limits of the rear parking lot are surrounded by a chain link fence, and the northern property boundary is demarcated by a brick wall with access via a gate from Bedford Avenue. A retaining wall along the southern and western property boundaries separates the site from the adjacent properties.

2.2 Site History

According to information provided by the NYSDEC, the Fumex Site operated as a commercial termite extermination business from 1952 to 1992. It was reported that the originally unpaved parking area behind the building was sprayed regularly with chlordane for insect control from 1952 to 1978. The parking area was paved sometime between 1978 and 1981. In 1981, a chlordane rinse water spill of less than 30 gallons occurred in the parking area, and some of the rinse water entered the on-site dry well located within the parking area.



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FUMEX SANITATION SITE
GARDEN CITY PARK, NEW YORK

SITE PLAN I

FIGURE 2-1

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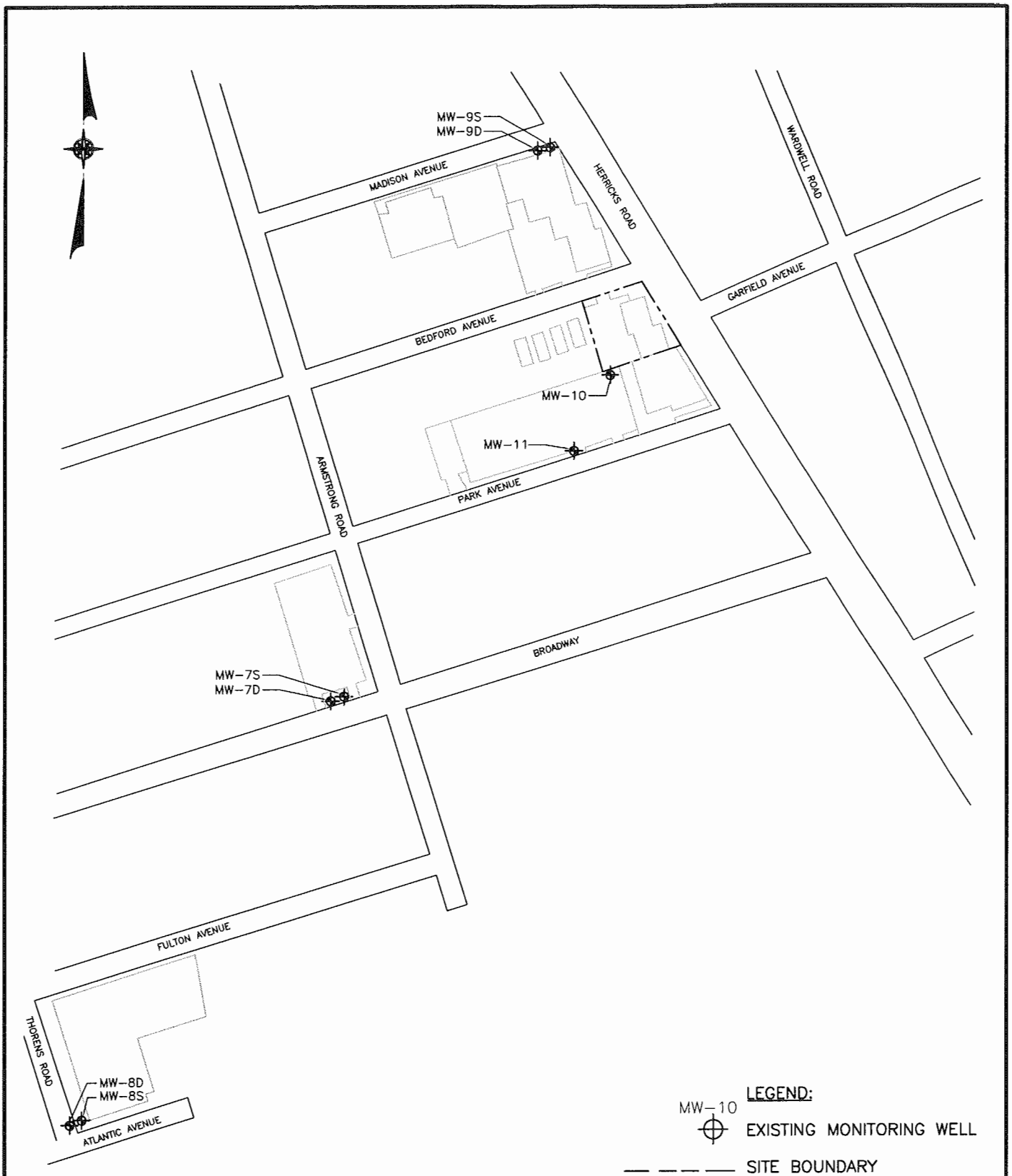

SCALE: 1" = 200'

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FUMEX SANITATION SITE
GARDEN CITY PARK, NEW YORK

SITE PLAN II

FIGURE 2-2

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In 1986, the NYSDEC entered into an Order of Consent with Fumex Sanitation, Inc. to determine the extent of contamination in the soil and groundwater at the site and/or evaluate remedial alternatives. Limited site investigations included the installation of five monitoring wells and collection of subsurface soil samples and were completed by the property owner in 1984 and 1986. Further investigations were completed in 1989 by the NYSDEC, including the performance of an air monitoring survey. The results of the sampling indicated the presence of elevated levels of chlordane in soil and groundwater at the site. Based on these investigations, the Fumex Site was included in the Registry of Inactive Hazardous Waste Disposal Sites in New York State.

Camp, Dresser and McKee (CDM) completed a Phase I Remedial Investigation for NYSDEC in 1996. This investigation included the performance of a public and private well survey, collection of sediment samples from the on-site dry well, and collection of two rounds of groundwater samples from the existing on-site monitoring wells. The results of the Phase I investigation indicated that the highest concentration of pesticides were present in the sediment of the dry well to a depth of 12 feet with similar pesticides present at elevated concentrations in the deeper soil samples collected 45 to 47 feet below the bottom of the dry well. The results of the on-site groundwater sampling indicated elevated concentrations of pesticides in each of the five groundwater monitoring wells.

Based on the results of the Phase I Remedial Investigation, NYSDEC requested CDM to perform a Phase II Remedial Investigation. The Phase II investigation was performed in 1998. The investigation included the installation of five soil borings and one deep monitoring well boring (MW-6). A total of 50 soil samples were collected, including 6 surficial soil samples that were collected upon removal of asphalt prior to augering. All samples were analyzed for Target Compound List (TCL) pesticides and seven soil samples collected from MW-6 were analyzed for Target Analyte List (TAL) metals, TCL volatile organics, TCL semivolatile organics and total organic carbon.

Six monitoring wells, three shallow and deep clusters, were also installed off-site as part of the Phase II investigation. A total of 17 monitoring wells, including the 7 new wells, the 5

existing on-site wells and 5 Nassau County observation wells, were sampled to determine groundwater quality at and in the vicinity of the site. Each sample was analyzed for TCL pesticides. Two rounds of groundwater samples were collected from these wells.

The Phase II soil data indicated widespread pesticide contamination present throughout surface soils located immediately below the parking lot pavement and in the dry well sediment. Low to nondetectable concentrations of volatile organic compounds were detected in the soil samples and, with the exception of impacts from the asphalt pavement in shallow soil samples, no semivolatile organic compounds were detected in the soil samples. Metals analysis indicated that targeted metals were below NYSDEC recommended cleanup standards.

On-site groundwater sampling results continued to indicate the presence of elevated levels of pesticides in groundwater. In addition, MW-6, which was screened in the upper zone of the Magothy aquifer, also exhibited trace concentrations of pesticides. Off-site groundwater sampling results indicated the presence of only one positive detection for pesticides in the two sampling rounds.

In an effort to further delineate the extent of soil and groundwater contamination, an additional investigation was performed by CDM in 1999. This investigation included the installation of two shallow monitoring wells immediately downgradient of the site and the collection of two composite surficial soil samples (EB and WB on Figure 2-1) from the residential property immediately west of the Fumex Site, which were analyzed for TCL pesticides. During installation of the monitoring wells, four subsurface soil samples were collected and analyzed for TCL pesticides and total organic carbon. No exceedances were detected from the soil samples collected as part of monitoring well installation. The composite soil sample collected from the eastern side of the residential property (EB on Figure 2-1) indicated the presence of chlordane and heptaclor. No pesticides were detected in the composite soil sample collected from the western side of the residential property (WB on Figure 2-1).

Groundwater sampling included the collection of groundwater samples from three on-site wells and the two newly installed monitoring wells. The results of the groundwater sampling

continued to indicate the presence of elevated levels of pesticides in the on-site monitoring wells; however, the newly-installed off-site wells did not indicate the presence of pesticides.

Additional soil samples were collected from adjacent off-site properties in September 2000. Surface soil samples were taken from three locations (SS-1, SS-2 and SS-3 on Figure 2-1) on the residential property immediately west of the Fumex Site where pesticide contamination had previously been found. Only SS-2 contained pesticides at concentrations exceeding soil cleanup objectives. Three other surface soil samples (SS-4, SS-5 and SS-6 on Figure 2-1) collected from properties adjoining the Fumex site to the south did not contain pesticides at concentrations exceeding soil cleanup objectives.

In March 2001, the NYSDEC issued a Record of Decision (ROD) for the Fumex Site. In order to eliminate or mitigate the significant threats to human health and the environment caused by the disposal of hazardous wastes at the Fumex site, the following remedy was selected:

- Excavation of the top 18 inches of soil from the entire parking lot in the rear of the Fumex building;
- Removal of an on-site dry well and replacement with a catch basin connected to a local storm drain;
- Excavation of the contaminated soils in the yard of the residence to the west of the Fumex site;
- Disposal of the excavated material to an off-site Resource Conservation and Recovery Act (RCRA) approved facility;
- Backfill of the excavated area with clean soil;
- Installation and long-term maintenance of an impermeable membrane cap in the parking lot;
- A deed restriction to maintain the impermeable cap and restrict any soil excavation beneath the impermeable cap;
- Power washing (with detergent) of the concrete floor in the former garage area of the on-site building, with collection and disposal of the water generated; and
- Implementation of a groundwater monitoring program.

3.0 SCOPE OF WORK

The services to be provided by D&B under this work assignment are comprised of five tasks. These tasks include work plan preparation, conducting a pre-design investigation comprised of soil sampling, preparation of plans and specifications (contract documents) for procurement of a remedial contractor, pre-award services for the NYSDEC and public participation activities. Each of these tasks is described in detail in the following sections.

3.1 Task 1 - Work Plan Preparation

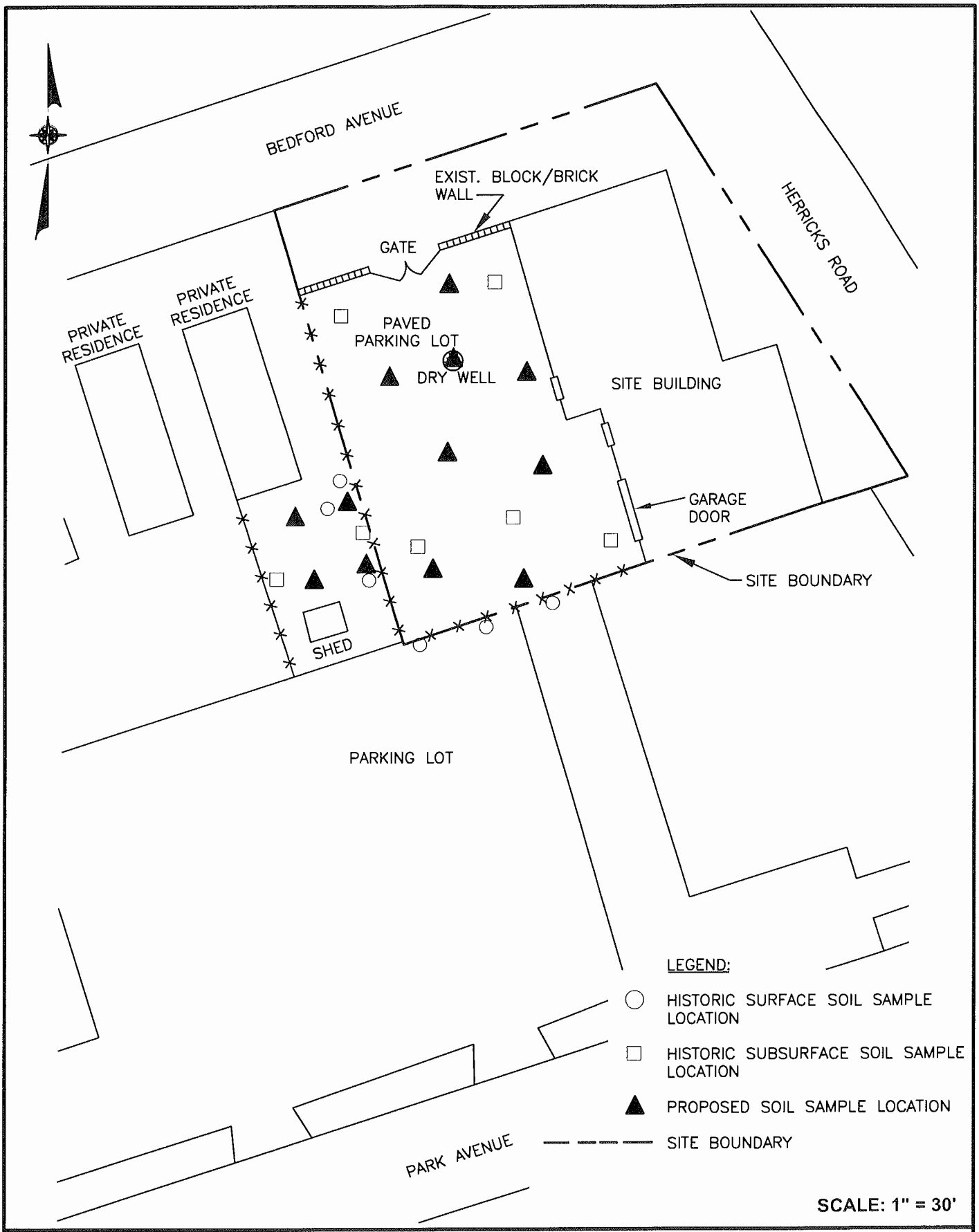
This task includes review of project documents and reports, and preparation of this Work Plan. This task includes telephone discussions and a site scoping meeting with NYSDEC representatives to discuss project scoping issues, as well as preparation of a draft Work Plan for submittal to the NYSDEC, the New York State Department of Health (NYSDOH) and the Nassau County Health Department (NCHD) for review. Comments received will be incorporated into the final Work Plan. The final Work Plan will be submitted in printed format and portable document format (PDF).

3.2 Task 2 - Pre-design Investigation

3.2.1 On-site Soil Sampling

A soil sampling program will be implemented at the Fumex Site to provide data to evaluate potential disposal options for the soil that will be excavated during the remediation program. One composite soil sample will be collected from the on-site area to be excavated.

The composite sample will comprised of six to eight discrete samples, all but one of which will be grab samples collected from a depth of 6 to 12 inches below the asphalt within the on-site parking lot (see Figure 3-1 for proposed sample locations). Please note that the actual sample locations may vary slightly from those shown on the figure, due to site conditions such as the presence of subsurface utilities or other obstructions. The final component of the composite



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FUMEX SANITATION SITE
GARDEN CITY PARK, NEW YORK

PROPOSED SOIL SAMPLE LOCATIONS

FIGURE 3-1

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sample will be a grab sample collected from 6 to 12 inches below the base of the on-site dry well.

The soil sampling will be conducted using the direct push method. At each location, a decontaminated 4-foot soil sampler with a new, dedicated acetate liner will be driven to a depth of 4 feet below grade. Upon retrieval, the sample will be geologically logged, including indications of contamination such as staining or odors, and the portion of the sample from 6 to 12 inches below the asphalt (or below the base of the dry well) will be collected for subsequent compositing. After sampling has been completed, each probehole within the parking area will be backfilled with excess soil cuttings, clean sand and bentonite, and completed at grade with cold patch asphalt. The probehole within the existing dry well will not be backfilled. The composite sample will be analyzed for TCL pesticides, TCL PCBs, total petroleum hydrocarbons, full Toxicity Characteristic Leaching Procedure (TCLP) parameters, reactivity, corrosivity and ignitability.

Sample analysis will be performed by Mitkem Corporation with standard, 4-week turnaround time. Mitkem is certified under the NYSDOH Environmental Laboratory Approval Program (ELAP) and the NYSDOH Contract Laboratory Program (CLP). The analytical results will be included in the pre-design investigation report (described in Section 3.2.4) and in the Contract Documents to provide potential bidders with information to assist in determining disposal options for the excavated soil.

3.2.2 Off-site Soil Sampling

In order to evaluate the vertical and horizontal extent of the pesticide contamination that was previously identified at the residential property immediately west of the site (280 Bedford Avenue), a total of eight soil samples will be collected at four locations. The results of previous surface soil sampling showed that elevated levels of pesticides, in particular chlordane, were present in surface soil at two locations at the adjacent property (SS-2 and EB).

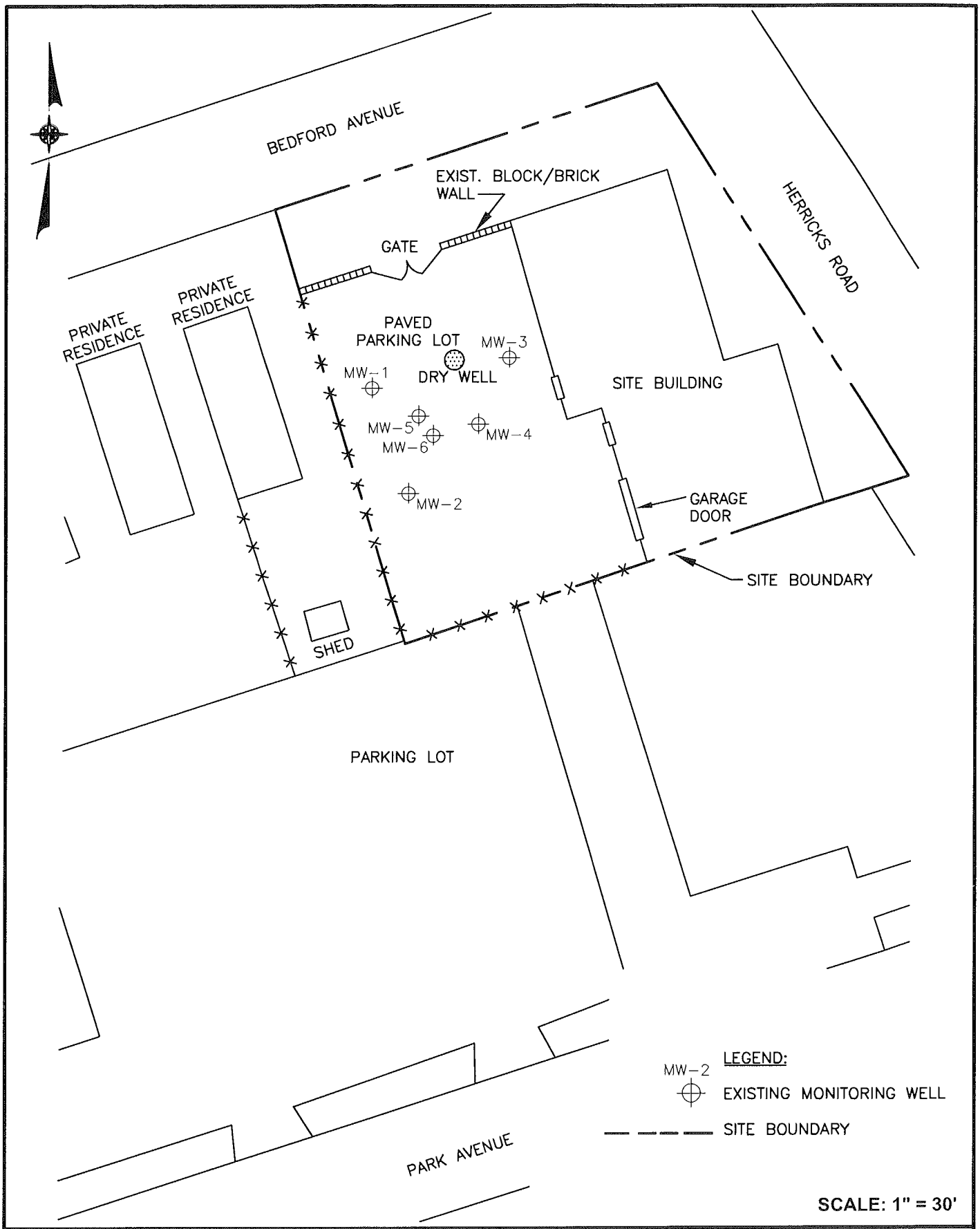
In order to verify these concentrations and to attempt to delineate the extent of the contamination, soil samples will be collected at four locations shown on Figure 3-1. Please note that the actual sample locations may vary slightly from those shown on the figure, due to site conditions such as the presence of subsurface utilities or other obstructions.

At each location, soil samples will be collected for laboratory analysis from depths of 0 to 6 inches below grade and 18 to 24 inches below grade. The soil sampling will be conducted using the direct push method, using a decontaminated 2-foot soil sampler with a new, dedicated acetate liner that will be driven to a depth of 2 feet below grade. Upon retrieval, the sample will be geologically logged, including indications of contamination such as staining or odors, and the soil from the target depth intervals will be collected for submittal to the laboratory. After sampling has been completed, each probehole will be backfilled with excess soil cuttings and clean sand, and completed at grade with bentonite.

Each sample will be analyzed for TCL pesticides using NYSDEC ASP procedures. A Category B data package will be provided. Sample analysis will be performed by Mitkem with standard, 4-week turnaround time. It is assumed that access to the adjacent private property will be coordinated by the NYSDEC.

3.2.3 Groundwater Sampling

As part of the pre-design investigation, the six existing on-site monitoring wells (MW-1 through MW-6, see Figure 3-2 for locations) and eight existing off-site monitoring wells (MW-7S, MW-7D, MW-8S, MW-8D, MW-9S, MW-9D, MW-10 and MW-11, see Figure 3-3 for locations) will be sampled to establish baseline conditions. It is assumed that purge water will be discharged to ground surface in the vicinity of each well. Specific sampling procedures are described in Section 5.0.



FUMEX SANITATION SITE
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LOCATIONS OF ON-SITE MONITORING WELLS

FIGURE 3-2

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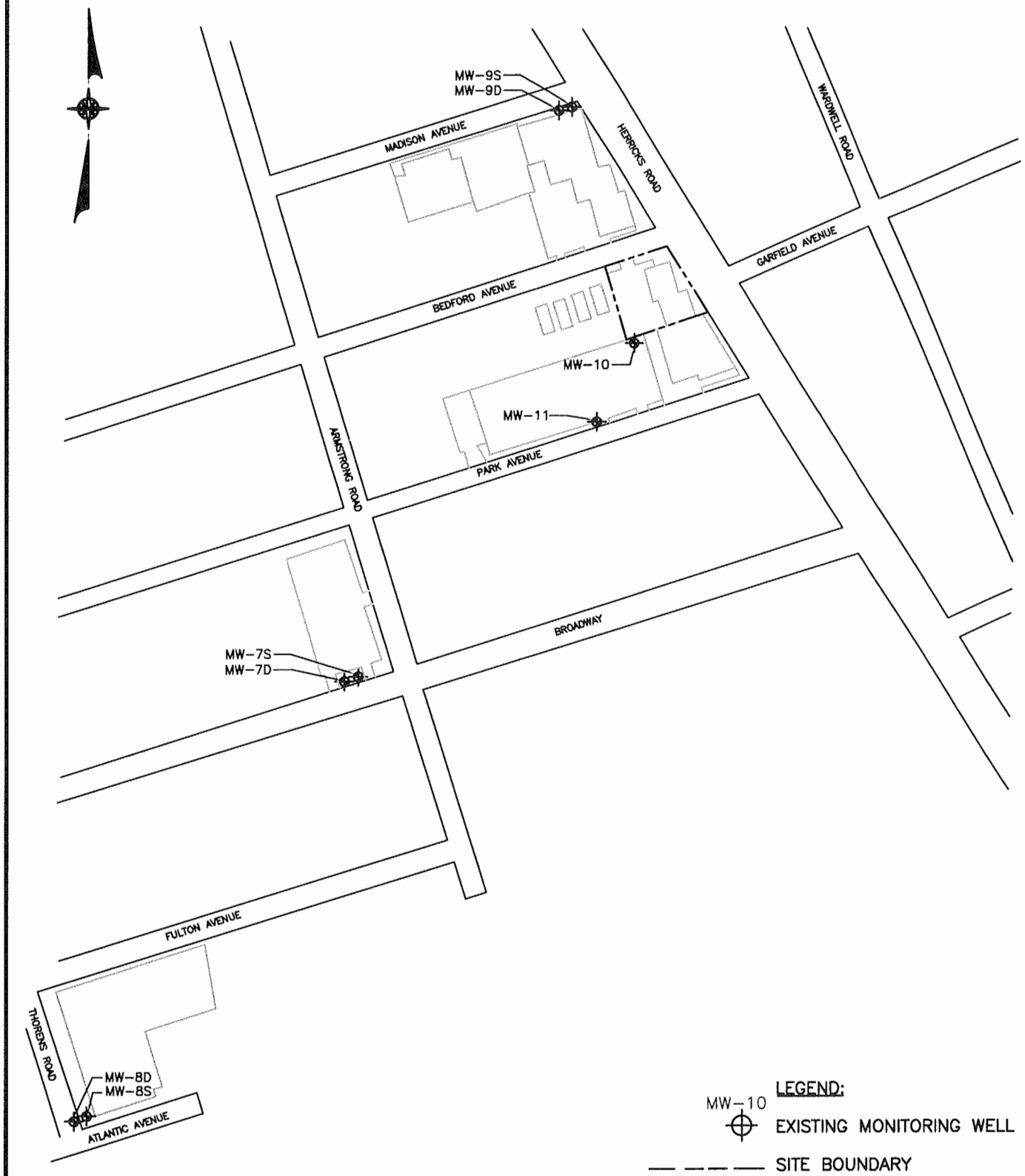

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FUMEX SANITATION SITE
GARDEN CITY PARK, NEW YORK

LOCATIONS OF OFF-SITE MONITORING WELLS

FIGURE 3-3

Each sample will be analyzed for Target Compound List (TCL) pesticides using NYSDEC Analytical Services Protocol (ASP) procedures. A Category B data package will be provided. Sample analysis will be performed by Mitkem Corporation with standard turnaround time. Mitkem is certified under the NYSDOH Environmental Laboratory Approval Program (ELAP) and the NYSDOH Contract Laboratory Program (CLP). It is assumed that access to existing on-site and off-site monitoring wells, if required, will be coordinated by the NYSDEC.

3.2.4 Record Search

As part of the pre-design investigation, Town of North Hempstead and Nassau County Department of Public Works records will be searched to obtain additional information on building construction as well as the existing storm sewer system. Each municipality will be contacted and arrangements will be made to obtain copies of all available information that will be useful in preparation of the plans and specifications.

3.2.5 Pre-Design Investigation Report

After the soil sample and groundwater samples data packages have been received, the results will be reviewed and tabulated. The soil sample results will be compared to NYSDEC Recommended Soil Cleanup Objectives (RSCOs) contained in the NYSDEC Technical and Administrative Guidance Memorandum (TAGM) 4046, "Determination of Soil Cleanup Objectives and Cleanup Levels" and to the site-specific cleanup objective of 1,400 ug/kg for chlordane. Groundwater sample results will be compared to NYSDEC Class GA Groundwater Standards and Guidance Values.

A Data Usability Summary Report (DUSR) will be prepared instead of full data validation. The DUSR is prepared by reviewing and evaluating the analytical data. The parameters to be evaluated in reference to compliance with analytical method protocols include all chain-of-custody forms, holding times, raw data (instrument print out data and chromatograms), calibrations, blanks, spikes, controls, surrogate recoveries, duplicates and sample data. If available, field sampling notes

will also be reviewed and any quality control problems will be evaluated as to their effect on the usability of the sample data.

The DUSR shall describe the samples and analysis parameters reviewed. Data deficiencies, analytical protocol deviations and quality control problems shall be described and their effect on the data discussed. Re-sampling and re-analysis recommendations will be made, if necessary. Data qualifications are documented for each sample analyze following the NYSDEC ASP 6/00 guidelines.

A letter report will be prepared to document the pre-design investigation. The report will provide documentation of the field investigation, descriptions of sampling methods, maps showing sample locations and analytical results, tabulated analytical results in comparison to applicable standards and guidelines, and evaluation of the current nature and extent of the off-site soil contamination. Based on the results of the pre-design investigation, recommendations will be provided regarding the area within which the remediation will be conducted.

In addition, as part of the pre-design investigation, a survey of the site and surrounding area will be conducted by a New York State licensed surveyor. The survey will include a property boundary survey at a scale of 1 inch = 10 feet as well as a physical features survey which will include ground surface elevations with contour intervals of 0.5 foot. The physical features survey will also include the location of aboveground and belowground utilities and the new on-site and off-site soil sampling locations.

The locations of all aboveground and belowground utilities will be identified using a private utility markout company prior to performance of the physical features survey. The utility mark-out shall be performed using a non-intrusive geophysical subsurface investigation with ground penetrating radar (GPR) delineation techniques. The estimated level of effort for performing the private utility markout is based on completing the utility survey within two (2) business days. It is assumed that access to the project site, including the project site building, and adjacent private property(s) will be coordinated by the NYSDEC.

3.3 Task 3 - Plans and Specifications (Contract Documents)

Draft, pre-final and final specifications and drawings will be prepared for the purpose of competitively bidding the remedial construction in conformance with the NYSDEC Standard Contract Documents. The design documents will conform to the selected remedy in the Record of Decision, and will conform to New York State laws, rules, regulations and guidelines. As noted below, this task includes optional items that may be conducted at the request of the NYSDEC.

The specifications will contain contractor submittal requirements, including preparation of a project schedule; site-specific sampling and analysis plan (SAP), including details for verification sampling analysis and reporting; quality assurance/quality control (QA/QC) plan; and a site-specific health and safety plan (HASP) which will include a community air monitoring plan; and operations, maintenance and monitoring plan. The specifications will also include requirements for mobilization/demobilization, site preparation and restoration, waste disposal and management, and site security. In addition, the Contract Documents will contain a bid sheet, estimated quantities for each bid item, and a maximum time period for substantial completion and final completion.

The design documents will specify requirements for the following:

- Site preparation;
- On-site and off-site excavation and disposal of contaminated soils, including excavation of soil within the existing dry well;
- Closure of the parking lot dry well and installation of a new catch basin connected to the municipal storm sewer system, if feasible;
- Pressure washing of the former garage floor, and containment and proper disposal of generated wastewater;
- Construction of an impermeable asphalt cap for the on-site parking lot;
- Maintenance of traffic (as required);
- Various permit requirements;

- Construction of new monitoring wells for long term groundwater monitoring program;
- Noise, odor and dust controls; and
- Restoration of on-site and off-site remediated areas.

3.3.1 Preliminary Design Submittal (35% Complete)

If required by the NYSDEC, the preliminary design submittal will consist of preliminary drawings and an outline of the specifications, and will be submitted to the Department when the design is approximately 35% complete. The preliminary design submittal will include the existing field conditions, such as the condition of existing drainage structures, property lines, site topography and other conditions that may affect the implementation of the selected remedy.

Supporting documentation, including the basis for design, supporting data and documentation, and design calculations, will be provided with the preliminary design submittal. A list of potentially impacted property owners and/or those persons with potential property rights, and an updated tax map, will also be provided, along with a preliminary list of anticipated temporary or permanent easements, rights-of-way and permits necessary to perform the remediation, and identification of non-property permits with which the remediation must be in substantial compliance. It is assumed that NYSDEC will obtain the necessary permits, access agreements and/or easements, although D&B will prepare permit applications, if required.

A schedule for meeting the access and permit requirements will be developed, and updated as necessary, to minimize the potential for project delays. This schedule will identify the party responsible for obtaining each access agreement or permit.

Three copies of the preliminary design package will be provided to NYSDEC for review and comment. Comments received will be incorporated into subsequent versions of the design package.

3.3.2 Intermediate Design Submittal (65% Complete)

The intermediate design submittal will be provided to the NYSDEC when the design is approximately 65% complete. This submittal will include revised plans incorporating NYSDEC comments from the 35% design submittal, if applicable, as well as draft sections of the technical specification. Three copies of the intermediate design package will be provided to NYSDEC for review and comment. Comments received will be incorporated into subsequent versions of the design package.

3.3.3 Pre-Final and Final Design Submittal

Upon completion of the design documents, seven copies of the pre-final plans and specifications will be submitted to NYSDEC for review. Each copy of the bid package will include a complete set of drawings, a complete specifications package, bid forms, measurement and payment provisions and NYSDEC Standard Contract Documents. A Limited Site Data Summary Report will be submitted to the NYSDEC as part of the pre-final design submittal. This report will describe site conditions and provide analytical data to assist bidders.

NYSDEC comments will be incorporated into the final plans and specifications, and one copy of the final plans and specifications will be submitted to NYSDEC for final review. After approval, 50 copies of the Contract Documents will be provided to the NYSDEC. In addition, an electronic copy in Portable Document Format (PDF) will be provided. The final drawings and specifications will be sealed and signed by a professional engineer licensed to practice in New York State. For budget purposes, it is assumed that each set of the Contract Documents will be comprised of 1,000 double-sided pages and ten 30-inch by 40-inch drawings.

3.3.4 Project Cost Estimate

A detailed construction, operation and maintenance cost estimate for the project will be prepared under this subtask. The estimate will be prepared on a bid item basis, consistent with the bid schedule in the Contract Documents, in order to provide a cost estimate for each bid item.

A draft project cost estimate will be submitted with the pre-final design documents. Based upon comments from the NYSDEC, D&B will revise and submit the final cost estimate with the final drawings and specifications. The Engineer's cost estimate will be signed and sealed by a professional engineer licensed to practice in New York State.

3.3.5 Groundwater Monitoring Plan

The ROD for the site includes the requirement for long-term groundwater monitoring. D&B will evaluate the specifications of the existing monitoring well network and develop a proposed groundwater monitoring plan. If installation of additional monitoring wells is warranted, then the plans and specifications will include requirements for this work.

3.4 Task 4 - Pre-Award Services

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

3.4.1 Pre-Bid Conference

D&B will attend and assist the NYSDEC with a mandatory on-site pre-bid conference and site walkover. At the pre-bid conference, D&B will emphasize to the prospective bidders important aspects of the project. D&B will prepare and submit meeting minutes for the pre-bid conference and respond to technical questions regarding the plans and specifications.

3.4.2 Addenda

D&B will prepare written responses to questions raised at the pre-bid conference and any necessary addenda to the plans and specifications for the timely transmittal by the NYSDEC to the

prospective bidders. D&B will provide up to 25 copies of addenda to the NYSDEC for distribution to the bidders. For budget purposes, it is assumed that one addendum will be prepared.

3.4.3 Bid Review

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

3.5 Task 5 - Citizen Participation Activities

If requested, D&B will assist the NYSDEC with public participation activities. For budgeting purposes, it is assumed that D&B will prepare a presentation and attend one public meeting to answer questions regarding the project design, construction techniques and project schedule. D&B will also prepare minutes of the meeting and will provide them to the NYSDEC.

4.0 PROJECT MANAGEMENT

4.1 Project Schedule and Key Milestones/Reports

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

1. Submittal of Draft Work Plan
2. Submittal of 35% Plans and Specifications (if requested by NYSDEC)
3. Submittal of 65% Plans and Specifications
4. Submittal of Pre-Final Contract Documents and Pre-Final Cost Estimate
5. Submittal of Final Contract Documents and Final Cost Estimate

4.2 Project Management, Organization and Key Technical Personnel

Dvirka and Bartilucci Consulting Engineers will be the prime consultant responsible for preparation of the remedial design. Subcontractors that are expected to be used on the project include the following:

- Zebra Environmental Corporation - direct push services soil sampling
- Mitkem Corporation (MBE) - chemical analyses
- Jamaica Blueprint Company, Inc. (WBE) - document reproduction
- YEC, Inc. (MBE) - land surveying

The 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
PROJECT SCHEDULE
FUMEX SANITATION SITE REMEDIAL DESIGN

	Task	Start Date	Duration (weeks)	Completion Date
Task 1 - Work Plan Preparation		1/24/06		
1	Work Assignment Acceptance		0	1/24/06
2	Preparation of Draft Work Plan		6	3/7/06
3	NYSDEC Review of Draft Work Plan		1	3/14/06
4	Preparation of Final Work Plan		1	3/21/06
5	NYSDEC Review of Final Work Plan		1	3/28/06
6	Notice to Proceed		0.5	3/31/06
Task 2 - Pre-Design Investigation		4/7/06		
7	Soil Sampling [1]		1	4/14/06
8	On-site Utility Markout [1]		0	4/14/06
9	Site Survey [1]		0	4/14/06
10	Laboratory Analysis		4	5/12/06
11	Pre-Design Investigation Report		2	5/26/06
Task 3 - Plans and Specifications		5/26/06		
12	Preliminary (35%) Design (if requested)		6	7/7/06
11	NYSDEC Review		4	8/4/06
13	Intermediate (65%) Design (if requested)		6	9/15/06
14	NYSDEC Review		4	10/13/06
15	Pre-Final and Final Design		4	11/10/06
16	NYSDEC Review		4	12/8/06
17	Engineering Design Report		0	12/8/06
Task 4 - Pre-Award Services				
18	Copying of Bid Documents			[2]
19	Pre-Bid Conference			[2]
20	Addendum to Contract Documents (if required)			[2]
21	Bid Review and Contractor Selection			[2]
Task 5 - Public Meeting				
22	Preparation of Presentation			[2]
23	Public Meeting			[2]
24	Meeting Minutes			[2]

[1] Item to be conducted concurrently with other items under this task.

[2] Schedule to be determined.

REMEDIAL DESIGN
FUMEX SANITATION SITE, GARDEN CITY PARK, NEW YORK
PROJECT TEAM ORGANIZATION CHART

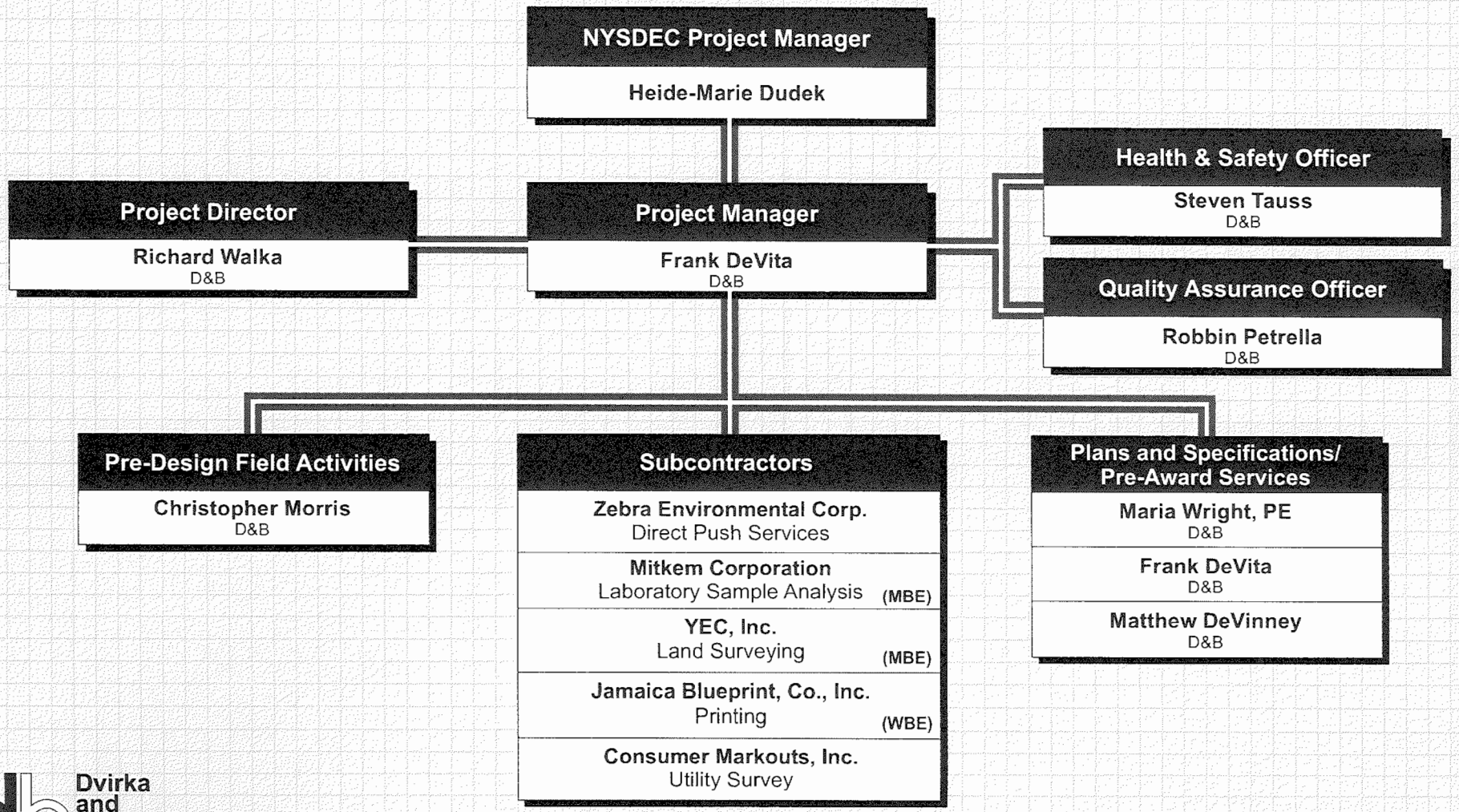

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FIGURE 4-2

RLA/FUMEXSAN2475OR(03/02/06)

5.0 SITE-SPECIFIC QUALITY ASSURANCE/QUALITY CONTROL PLAN

5.1 Sampling Scope and Sampling Procedures

The pre-design field activities for the Fumex Sanitation Site remedial design program will include collection of soil samples at six to eight on-site locations and four off-site locations, and collection of groundwater samples from the six on-site monitoring wells (MW-1 through MW-6) and eight off-site monitoring wells (MW-7S, MW-7D, MW-8S, MW-8D, MW-9S, MW-9D, MW-10 and MW-11). Proposed soil sample locations are shown on Figure 3-1. Locations of existing on-site and off-site monitoring wells are shown on Figures 3-2 and 3-3.

5.1.1 On-site Soil Sampling Procedures

The on-site soil samples will be collected from within the parking lot and from within the existing dry well, using the direct push method, as follows:

1. Be certain that each sample location is noted on Location Sketch.
2. Mobilize the direct push rig to the sample location and drive a decontaminated 4-foot soil sampler with a new, dedicated acetate liner to a depth of 4 feet below grade.
3. Remove the laboratory-supplied, pre-cleaned sample containers from sample cooler, label container with an indelible marker, fill out Sample Information Record and Chain of Custody Form.
4. Upon retrieval, geologically log each sample, including indications of contamination such as staining or odors, and select the portion of the sample from 6 to 12 inches below the asphalt (or below the base of the dry well) for subsequent compositing. For all analytical parameters except leachable VOCs, the individual samples will be combined into a single composite sample. The sample to be analyzed for leachable VOCs will be collected from within the existing dry well, as this structure is likely to represent the "worst-case" situation for VOCs. Place the samples into the labeled sample containers.
5. Return sample containers to iced sample cooler. Sample coolers will be shipped via overnight courier under chain of custody procedures.
6. After sampling has been completed, each probe hole within the parking area will be backfilled with excess soil cuttings, clean sand and bentonite, and completed at grade

with cold patch asphalt. The probe hole within the existing dry well will not be backfilled.

5.1.2 Off-site Soil Sampling Procedures

The off-site soil samples will be collected from the residential property immediately west of the site, using the direct push method, as follows:

1. Be certain that each sample location is noted on Location Sketch.
2. Mobilize the direct push rig to the sample location and drive a decontaminated 2-foot soil sampler with a new, dedicated acetate liner to a depth of 2 feet below grade.
3. Remove the laboratory-supplied, pre-cleaned sample containers from sample cooler, label container with an indelible marker, fill out Sample Information Record and Chain of Custody Form.
4. Upon retrieval, geologically log each sample, including indications of contamination such as staining or odors, and place the portions of the sample from 0 to 6 inches below grade and 18 to 24 inches below grade into the labeled sample containers.
5. Return sample containers to iced sample cooler. Sample coolers will be shipped via overnight courier under chain of custody procedures.
6. After sampling has been completed, each probe hole will be backfilled with excess soil cuttings and clean sand, and completed at grade with bentonite.

5.1.3 Groundwater Sampling Procedures

Groundwater samples will be collected using low flow procedures, as follows:

1. Measure the depth to water in the well using a decontaminated water level indicator.
2. Slowly lower the pump, safety cable, tubing and electrical lines into the screen zone of the well. The pump intake must be kept at least two (2) feet above the bottom of the well to prevent disturbance and resuspension of any sediment present in the bottom of the well. Record the depth to which the pump is lowered.
3. Before starting the pump, measure the water level again with the pump in the well. Leave the water level measuring device in the well.

4. Start pumping the well at 200 to 500 milliliters per minute (ml/min). The water level should be monitored approximately every five minutes. Ideally, a steady flow rate should be maintained that results in a stabilized water level (drawndown of 0.3 foot or less). Pumping rates should, if needed, be reduced to the minimum capabilities of the pump to ensure stabilization of the water level. As noted above, care should be taken to maintain pump suction and to avoid entrainment of air in the tubing. Record each adjustment made to the pumping rate and the water level measured immediately after each adjustment.

5. During purging of the well, monitor and record the field indicator parameters (turbidity, temperature, specific conductance, pH, ORP and DO) approximately every five minutes. The well is considered stabilized and ready for sample collection when the indicator parameters have stabilized for three consecutive readings as follows:

   ±0.1 for pH

   ±3% for specific conductance (conductivity)

   ±10 mv for redox potential

   ±10% for DO and turbidity

   Dissolved oxygen and turbidity usually require the longest time to achieve stabilization. The pump must not be removed from the well between purging and sampling.

6. Remove the laboratory precleaned sample containers from sample cooler, label container with an indelible marker, fill out Sample Information Record and Chain of Custody Form.

7. Obtain a sample from the pump discharge using the lowest sustainable flow rate, taking care not to spill on the outside of the container or overfill container, and replace the cover on the sample container. Samples for volatile organic analyses will have no air space in the sample vial prior to sealing. This is done by filling the vial such that there is a meniscus on top. Carefully slide the septum, Teflon side down, onto the top of the vial and cap the vial. Check for bubbles by turning the vial upside down and tapping it lightly. If bubbles appear, reopen the vial, remove the septum and add more sample (or resample). Replace the septum, recap and check for bubbles. Continue until vial is bubble-free.

8. Return sample containers to iced sample cooler. Sample coolers will be shipped via overnight courier under chain of custody procedures.

9. Decontaminate the pump.

5.2 Analytical Parameters

The on-site composite soil sample will be analyzed for TCL pesticides, TCL PCBs, total petroleum hydrocarbons, full Toxicity Characteristic Leaching Procedure (TCLP) parameters, reactivity, corrosivity and ignitability. Sample analysis will be performed by Mitkem Corporation with standard, 4-week turnaround time. Mitkem is certified under the NYSDOH ELAP and the NYSDOH CLP for these analyses.

The off-site soil samples will be analyzed for TCL pesticides using NYSDEC ASP procedures. A Category B data package will be provided. Sample analysis will be performed by Mitkem with standard, 4-week turnaround time.

The groundwater samples will be analyzed for pesticides as identified in the NYSDEC 2000 Analytical Services Protocol (ASP) and USEPA Contract Laboratory Program (CLP) Statement of Work 5/99 (OLM 04.2). All sample analyses shall be performed by a laboratory approved under the NYSDOH Environmental Laboratory Approval Program (ELAP).

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

5.3 Matrix Spikes/Matrix Spike Duplicates and Matrix Spike Blanks

Matrix spike samples are quality control procedures, consistent with 2000 NYSDEC ASP specifications, used by the laboratory as part of its internal Quality Assurance/Quality Control program. The matrix spikes (MS) and matrix spike duplicates (MSD) are aliquots of a designated sample (water or soil), which are spiked with known quantities of specified compounds. MS/MSD samples are used to evaluate the matrix effect of the sample upon the analytical methodology, as well as to determine the precision of the analytical method used. Samples to be analyzed as MS/MSDs may be designated in the field (that is, additional aliquots of a particular sample from the site may be collected) or they may be selected by the laboratory.

Table 5-1

SUMMARY OF MONITORING PARAMETERS

Sample Location	Sample Type	Sample Matrix	Sample Fraction	Container Type/Size/No.	Sample Preservation	Maximum Holding Time	Analytical Method
On-site Soil	Composite	Soil	Pesticides/PCBs	Glass, clear/8-ounce/ Ichem 200 or equivalent	Cool to 4°C	7 days after VTSR for extraction; 40 days after VTSR for analysis	6/00 NYSDEC ASP, Method OLM04.2
	Composite	Soil	Total Petroleum Hydrocarbons	Glass, clear/8-ounce/ Ichem 200 or equivalent	Cool to 4°C	10 days after VTSR	6/00 NYSDEC ASP Method 418.1
	Composite	Soil	TCLP Extraction	Glass, clear/8-ounce/ Ichem 200 or equivalent	Cool to 4°C	7 days after VTSR for extraction	6/00 NYSDEC ASP Method 1311
		TCLP Extract	TCLP Volatiles	Glass/40 ml/Ichem 200 or equivalent		7 days from TCLP extraction for analysis	6/00 NYSDEC ASP OLM04.2
			TCLP Semivolatiles	Glass/1 liter/Ichem 200 or equivalent		7 days from TCLP extraction for extraction 40 days analysis	6/00 NYSDEC ASP OLM04.2
			TCLP Pesticides	Glass/1 liter/Ichem 200 or equivalent		7 days from TCLP extraction for extraction 40 days analysis	6/00 NYSDEC ASP OLM04.2
			TCLP Herbicides	Glass/1 liter/Ichem 200 or equivalent		7 days from TCLP extraction for extraction, 40 days analysis	6/00 NYSDEC ASP OLM04.2
			TCLP Metals	Plastic/1 liter/Ichem 200 or equivalent		26 days from TCLP extraction for Hg analysis, 6 months for others	6/00 NYSDEC ASP ILM04.2
	Composite	Soil	Ignitability, Corrosivity, Reactivity	Glass, clear/8-ounce/ Ichem 200 or equivalent	Cool to 4°C	26 days from VTSR	6/00 NYSDEC ASP Methods 1010, 1110

Table 5-1 (continued)

SUMMARY OF MONITORING PARAMETERS

Sample Location	Sample Type	Sample Matrix	Sample Fraction	Container Type/Size/No.	Sample Preservation	Maximum Holding Time	Analytical Method
Off-site Soil	Grab	Soil	Pesticides	Glass, clear/8-ounce/ Ichem 200 or equivalent	Cool to 4°C	7 days after VTSR for extraction; 40 days after VTSR for analysis	6/00 NYSDEC ASP, Method OLM0 4.2
	Matrix Spike and Matrix Spike Duplicate	Soil	Pesticides	Glass, clear/8-ounce/ Ichem 200 or equivalent	Cool to 4°C	7 days after VTSR for extraction; 40 days after VTSR for analysis	6/00 NYSDEC ASP, Method OLM0 4.2
	Matrix Spike Blank	Soil	Pesticides	Glass, clear/8-ounce/ Ichem 200 or equivalent	Cool to 4°C	7 days after VTSR for extraction; 40 days after VTSR for analysis	6/00 NYSDEC ASP, Method OLM0 4.2
Monitoring Wells	Grab	Groundwater	Pesticides	Glass, clear/40 ml/3 Ichem 300 series or equivalent	Cool to 4°C	7 days after VTSR for analysis	6/00 NYSDEC ASP, Method OLM0 4.2
Laboratory	Method Blank	Water	Pesticides/PCBs	---	Cool to 4°C	7 days after VTSR for analysis	6/00 NYSDEC ASP, Method OLM0 4.2
	Holding Blank	Water	Pesticides/PCBs	---	Cool to 4°C	7 days after VTSR for analysis	6/00 NYSDEC ASP, Method OLM0 4.2

VTSR - Verified Time of Sample Receipt at the laboratory

A matrix spike blank is an aliquot of analyte-free water, prepared in the laboratory, and spiked with the same solution used to spike the MS and MSD. The matrix spike blank (MSB) will be subjected to the same analytical procedure as the MS/MSD and used to indicate the appropriateness of the spiking solution by calculating the spike compound recoveries. The procedure and frequency regarding the MS, MSD and MSB samples are defined in the NYSDEC ASP, and will be collected for the off-site soil samples and groundwater samples.

5.4 Field Blank (Field Rinsate Blank)/Equipment Blank

Based upon discussion with the NYSDEC, field blanks will not be required for field investigations in which dedicated, disposable sampling equipment (for example, dedicated acetate liners) will be utilized for sample collection.

5.5 Trip Blanks (Travel Blanks)

The primary purpose of a trip blank is to detect other sources of VOC contamination that might potentially influence contaminant values reported in actual samples, both quantitatively and qualitatively. The purpose of a trip blank is to control sample bottle preparation and blank water quality as well as sample handling. Thus, the trip blank will travel to the site with the empty sample bottles and back from the site with the collected samples in an effort to simulate sample handling conditions. Contaminated trip blanks may indicate inadequate bottle cleaning or blank water of questionable quality. Trip blanks will be implemented only when collecting water samples, including field blanks, and analyzed for VOCs only. Since this project will not include VOC analysis of water samples, trip blanks will not be collected.

5.6 Method Blanks/Holding Blanks

A method blank is an aliquot of laboratory water or soil, which is spiked with the same internal and surrogate compounds as the samples. The purpose of the method blank is to define and determine the level of laboratory background contamination. Frequency, procedure and

maximum laboratory containment concentration limits are specified in the 2000 NYSDEC ASP. A holding blank is an aliquot of analyte-free water that is stored with the environmental samples in order to demonstrate that the samples have not been contaminated during laboratory storage. This blank will be analyzed using the same analytical procedure as the samples.

5.7 Decontamination Procedures

Since dedicated disposable equipment will be utilized for the on-site and off-site soil sampling programs, field decontamination will not be conducted.

6.0 SITE-SPECIFIC HEALTH AND SAFETY PLAN

The following site-specific information consists of important personnel contacts and emergency response information:

Site Name:	Fumex Sanitation
Address:	131 Herricks Road
	Garden City Park, NY 11040
Date of HASP Preparation:	February 2006
Dates of Field Investigation:	
Entry Objectives:	Pre-design investigation to obtain site-specific information for remedial design.

Site Organizational Structure:	Name	Telephone No.
Proj. Director:	Richard Walka	516-364-9890
Proj. Manager:	Frank DeVita	516-364-9890
HSO:	Steven Tauss	516-364-9890
FOM/ Alternate HSO:	Christopher Morris	516-364-9890
Field Team Staff		
Subcontractors:	Zebra Environmental Corporation	516-596-6300
	YEC, Inc.	845-268-3203

Medical Assistance Physician:	Plainview Medical Group, P.C.
Address:	100 Manetto Hill Road, Suite 205
	Plainview, NY 11803
Telephone:	516-822-2541

SITE-SPECIFIC HEALTH AND SAFETY PLAN
(continued)

Name of Hospital: Winthrop – University Hospital
Telephone: 516-663-2234

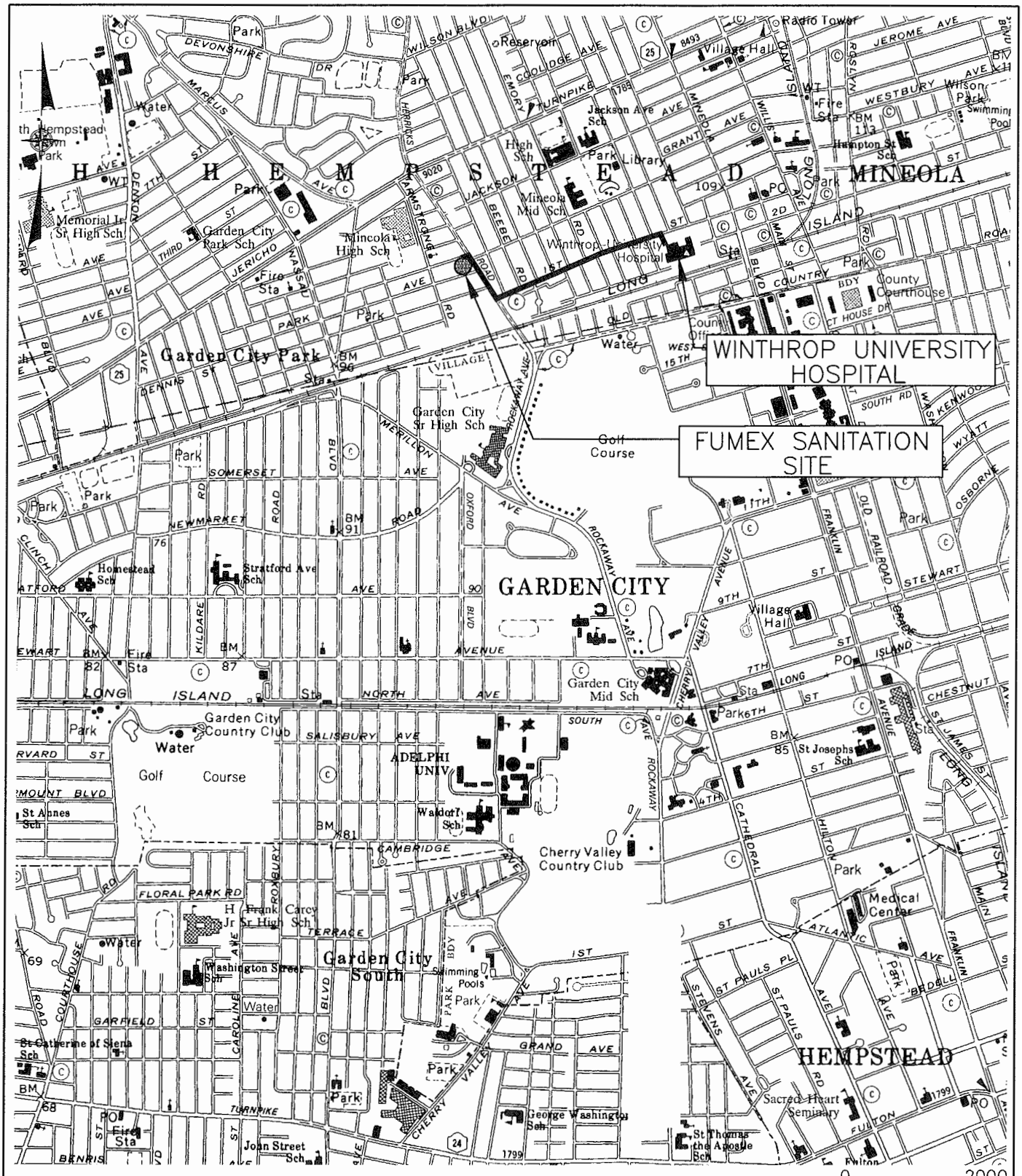
Directions: Exit the parking lot and proceed east on Bedford Avenue to Herricks Road. Turn right onto Herricks Road and turn left onto 1st Street. Hospital is approximately 1/2 mile on right.

Route to Hospital (see attached map)

Emergency Telephone Numbers

Agent/Facility	Telephone No.	Emergency No.
EMS - Ambulance		911
Police Department	516-573-6300	911
Fire Department	516-742-3300	911
Hospital	516-663-2234	516-663-2211
Poison Control Center		516-542-2323

Additional site-related information (may include special hazards, site control, waste storage and disposal, PPE, decon area location, special engineering controls, etc.)



SOURCE: USGS LYNBROOK QUADRANGLE

FUMEX SANITATION SITE
GARDEN CITY PARK, NEW YORK

ROUTE TO HOSPITAL MAP

FIGURE 6-1

Dvirka and Bartilucci CONSULTING ENGINEERS
A DIVISION OF WILLIAM F. COSULICH ASSOCIATES, P.C.

7.0 SCHEDULE 2.11 FORMS

Schedule 2.11 (a)

Summary of Work Assignment Price
Fumex Sanitation Site Remedial Design

Work Assignment Number D003600-50

1.	Direct Salary Costs (Schedules 2.10 (a) and 2.11(b))	$35,931
2.	Indirect Costs (Schedule 2.10 (g))	$56,879
3.	Direct Non-Salary Costs (Schedules 2.11 (c)and (d))	$1,998

Subcontract Costs

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

Name of Subcontractor	Services To Be Performed	Subcontract Price
YEC, Inc. (MBE)	Land Surveying	$8,402

4.	Total Cost-Plus-Fixed-Fee Subcontracts	$8,402

Unit Price Subcontracts (Schedules 2.11(f))

Name of Subcontractor	Services To Be Performed	Subcontract Price
Zebra Environmental Corp.	Direct Push Services	$1,545
Mitkem Corporation (MBE)	Sample Analysis	$3,445
Consumer Markouts, Inc.	Utility Markout	$4,080
Jamaica Blueprint Co., Inc. (WBE)	Reproduction Services	$8,892

5.	Total Unit Price Subcontracts	$17,962
6.	Subcontract Management Fee	$0
7.	Total Subcontract Costs (lines 4 + 5 + 6)	$26,365
8.	Fixed Fee (Schedule 2.10 (h))	$7,796
9.	Total Work Assignment Price (lines 1 + 2 + 3 + 7 +8)	$128,969

SCHEDULE 2.11 (b)
SUMMARY
Fumex Sanitation Site Remedial Design
WORK ASSIGNMENT NUMBER D003600-50

Average NSPE Wage Rates	IX	VIII	VII	VI	V	IV	III	II	I	TOTAL HOURS
as of July 1, 2002	$63.70	$59.68	$51.87	$41.78	$35.11	$29.65	$26.91	$23.36	$18.63	
Task 1	0	6	0	64	16	0	24	22	0	132
Task 2	0	1	0	6	16	20	84	26	0	153
Task 3	0	24	0	10	56	40	132	700	0	962
Task 4	0	6	0	0	0	0	16	54	0	76
Task 5	0	2	0	0	8	0	14	18	0	42
Total Hours	0	39	0	80	96	60	270	820	0	1,365
Total Direct Labor Cost	$0	$2,328	$0	$3,342	$3,371	$1,779	$7,266	$19,155	$0	$37,240

SCHEDULE 2.11 (b)-1
Direct Administrative Labor Hours Budgeted
Fumex Sanitation Site Remedial Design
WORK ASSIGNMENT NUMBER D003600-50

Average NSPE Wage Rates	IX	VIII	VII	VI	V	IV	III	II	I	TOTAL HOURS
as of July 1, 2002	$63.70	$59.68	$51.87	$41.78	$35.11	$29.65	$26.91	$23.36	$18.63	
Task 1	0	0.5	0	4	0	0	0	8	0	12.5
Task 2	0	0.5	0	0	0	0	1	4	0	5.5
Task 3	0	0.5	0	0	0	0	1	8	0	9.5
Task 4	0	0.5	0	0	0	0	1	2	0	9.5
Task 5	0	0.5	0	0	0	0	1	0	0	9.5
Total Hours	0	2.5	0	4	0	0	4	22	0	32.5
Total Direct Labor Cost	$0	$149	$0	$167	$0	$0	$108	$514	$0	$938

Dvirka & Bartilucci Consulting Engineers
Fumex Sanitation Site Remedial Design
Work Assignment Number: D003600-50

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

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							
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
TASK 1		0.5							4																			
TASK 2																										1		
TASK 3																										1		
TASK 4																										1		
TASK 5																										1		
TOTAL	0	0.5	0	0	0	0	0	0	4	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	4	0	0

ADMIN ACTIVITY	REVIEW WORK ASSIGNMENT (WA) PROGRESS														CAP PREPARATION											
	MBE/WBE Activities								Program Management						Prepare Monthly Cost Control Report & CAP								Oversee CAP			
NSPE	VIII	VII	VI	V	IV	III	II	I	IX	VIII	VII	VI	V	IV	VIII	VII	VI	V	IV	III	II	I	IX	VIII	VII	VI
TASK 1																					8					
TASK 2										0.5											4					
TASK 3										0.5											8					
TASK 4										0.5											2					
TASK 5										0.5											0					
TOTAL	0	0	0	0	0	0	0	0	0	2	0	0	0	0	0	0	0	0	0	0	8	0	0.0	0	0	0

ADMIN ACTIVITY	MISCELLANEOUS																									
	Update NSPE List								Equipment Use and Inventory				Word Proc. and Report Preparation				Total Adm. LOE (hrs)									
NSPE	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																		0.5	0	4	0	0	0	8		
TASK 2																		0.5	0	0	0	0	1	4		
TASK 3																		0.5	0	0	0	0	1	8		
TASK 4																		0.5	0	0	0	0	1	2		
TASK 5																		0.5	0	0	0	0	1	0		
TOTAL	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2.5	0	4	0	0	4	22	0	

SCHEDULE 2.11 (c)
DIRECT NON-SALARY COSTS
SUMMARY
Fumex Sanitation Site Remedial Design
Work Assignment No. D003600-50

ITEM	MAXIMUM REIMBURSEMENT RATE	UNIT	ESTIMATED NUMBER OF UNITS	TOTAL ESTIMATED COSTS
TRAVEL				
Transportation (Personal Car)	$0.445	mile	200	$89.00
Van Rental	$85.00	day	4	$340.00
Gas	$50.00	week	1	$50.00
MISCELLANEOUS EXPENSES				
Printing	$50.00	report	6	$300.00
Photographs/Slides*	$200.00	set	1	$200.00
Level D Safety Equipment	$14.00	$/person/day	6	$84.00
Level C Safety Equipment	$40.00	$/person/day	0	$0.00
Level B Safety Equipment	$50.00	$/person/day	0	$0.00
OUTSIDE SERVICES				
Express Mail (Standard Package)	$15.00	package	1	$15.00
Express Mail (Medium Package)	$35.00	package	5	$175.00
Express Mail (Large Package)	$250.00	package	1	$250.00
Sample Shipping	$75.00	shipment	1	$75.00
TOTAL DIRECT NON-SALARY COSTS				$1,578.00

* Includes photo finishing, slides and any other costs not associated with in-house capabilities.

Schedule 2.11(c)1
Direct Non-Salary Costs
Franklin Cleaners Site / Active Industrial Uniform Site
Work Assignment Number:

	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)	Estimated No. of Units	Total Estimated Cost
A.	Miscellaneous (Travel)														
1.	Transportation	$0.445	/mile	25	$11.13	75	$33.38	50	$22.25	25	$11.13	25	$11.13	200	$89.00
3.	Van Rental	$85.00	/day	0	$0.00	4	$340.00	0	$0.00	0	$0.00	0	$0.00	4	$340.00
4	Gas	$50.00	/week	0	$0.00	1	$50.00	0	$0.00	0	$0.00	0	$0.00	1	$50.00
	Subtotal (Travel)				$11.13		$423.38		$22.25		$11.13		$11.13		$479.00
B.	Miscellaneous (Expenses)														
1	Express Mail (Standard Pa	$15.00	/package	0	$0.00	0	$0.00	0	$0.00	1	$15.00	0	$0.00	1	$15.00
2	Express Mail (Medium Pac	$35.00	/package	1	$35.00	1	$35.00	3	$105.00	0	$0.00	0	$0.00	5	$175.00
3	Express Mail (Large Packa	$250.00	/package	0	$0.00	0	$0.00	1	$250.00	0	$0.00	0	$0.00	1	$250.00
4	Sample Shipping	$75.00	/package	0	$0.00	7	$525.00	0	$0.00	0	$0.00	0	$0.00	7	$525.00
5.	Photographs/Slides	$200.00	Lump Sum	0	$0.00	0	$0.00	0	$0.00	0	$0.00	1	$200.00	1	$200.00
6.	Printing	$50.00	/report	1	$50.00	1	$50.00	3	$150.00	1	$50.00	0	$0.00	6	$300.00
7.	Level D Safety Equipment	$14.00	$/person/day	0	$0.00	6	$84.00	0	$0.00	0	$0.00	0	$0.00	6	$84.00
8.	Level C Safety Equipment	$40.00	$/person/day	0	$0.00	0	$0.00	0	$0.00	0	$0.00	0	$0.00	0	$0.00
9.	Level B Safety Equipment	$50.00	$/person/day	0	$0.00	0	$0.00	0	$0.00	0	$0.00	0	$0.00	0	$0.00
	Subtotal (Misc. Expenses)				$85.00		$694.00		$505.00		$65.00		$200.00		$1,549.00
	TOTAL				$96.13		$1,117.38		$527.25		$76.13		$211.13		**$2,028.00**

* See Schedule 2.10(b) for rates.

SCHEDULE 2.11 (d) 1

EQUIPMENT PURCHASED UNDER THE CONTRACT
SUMMARY
Fumex Sanitation Site Remedial Design
Work Assignment No. D003600-50

ITEM	ESTIMATED PURCHASE PRICE	O&M RATE ($/per month)	TERM OF USAGE (MONTHS)	ESTIMATED USAGE COST (COL. 2 + [3X4])
NONE				$0.00
			TOTAL	$0.00

Schedule 2.11 (d) 2
Summary

Maximum Reimbursement Rates for Consultant/Subconsultant - Owned Equipment
Fumex Sanitation Site Remedial Design
Work Assignment No. D003600-50

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						$0.00
					TOTAL	$0.00

Notes:
Usage Rate = Capital Recovery Rate + O&M rate

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

SCHEDULE 2.11 (d) 3
EQUIPMENT
VENDOR RENTED
SUMMARY
Fumex Sanitation Site Remedial Design
Work Assignment No. D003600-50

ITEM	MAXIMUM REIMBURSEMENT RATE	TIME PERIOD	ESTIMATED USAGE (period of time)	ESTIMATED USAGE COST (Col. 2 X 3)
Horiba U22 Water Quality Meter	$100.00	day	2	$200.00
Solinst Water Level Indicator	$25.00	day	0	$0.00
Generator	$60.00	day	2	$120.00
Grundfos Pump	$125.00	day	0	$0.00
			Total	$320.00

SCHEDULE 2.11 (d) 4
SUMMARY
EXPENDABLE SUPPLIES
Fumex Sanitation Site Remedial Design
Work Assignment No. D003600-50

ITEM	ESTIMATED QUANTITY	UNITS	UNIT COST	TOTAL BUDGETED COST (COL. 2 X 3)
Polyethylene Tubing	1800	Feet	$0.25	$450.00
			TOTAL	$450.00

SCHEDULE 2.11 (d) 5
CONSUMABLE SUPPLIES
SUMMARY
Fumex Sanitation Site Remedial Design
Work Assignment No. D003600-50

ITEM	ESTIMATED QUANTITY	UNITS	UNIT COST	TOTAL BUDGETED COST (COL. 2 X 3)
Miscellaneous Supplies	1	Lump Sum	$100	$100.00
			TOTAL	$100.00

Schedule 2.11 (e)
Cost Plus Fixed-Fee Subcontracts

Fumex Sanitation Site

NAME OF SUBCONTRACTOR	SERVICES TO BE PERFORMED	SUBCONTRACT PRICE
YEC, INC.	Surveying & CAD	$8,402.32

A. Direct Salary Costs

Professional Responsibilty Level	Labor Classi-fication	Average Reimbursement Rate ($/Hr.)		Maximum Reimbursement Rate ($/Hr.)		Estimated Number of Hours	Total Estimated Direct Salary Cost ($)
Principal	VIII	2006	63.16	2006	68.23	0	0.00
Senior Geologist/Scientist/ Engineer/ Licensed Surveyor	V	2006	41.77	2006	45.94	30	1,253.10
Staff Geologist/ Scientist/Engineer	IV	2006	36.28	2006	39.93	0	0.00
Staff Geologist/ Scientist/Engineer/CAD Operator	III	2006	31.51	2006	34.96	6	189.06
Senior Technician/Staff Engineer/Scientist/Geologist	II	2006	23.30	2006	26.12	32	745.60
Technician/Draftsperson	I	2006	21.11	2006	23.66	32	675.52
						Total Direct Salary Costs:	2,863.28

B. Indirect Costs - 117% of direct salary cost

Indirect Costs:	3,350.04

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

Item	Maxium Reimbursement Rate	Estimated No. of Units	
Mileage	0.45 /mi.	600 miles	267.00
Tolls	25.00 /day	3 trips	75.00
Survey Equipment Rental	65.00 /day	3 days	195.00
CAD Equipment	15.00 /hour	8 hours	120.00
GPS NYS Plane Coordinates			600.00
		Total Direct Non Salary Costs:	1,257.00

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

Fixed Fee:	932.00

SCHEDULE 2.11 (f) 1
UNIT PRICE SUBCONTRACTS
SUMMARY
Fumex Sanitation Site Remedial Design
Work Assignment No. D003600-50

NAME OF SUBCONTRACTOR	SERVICES TO BE PERFORMED	SUBCONTRACT PRICE	MANAGEMENT FEE
Zebra Environmental Corporation	Direct Push Services	$1,545	$0

Item	Maximum Reimbursement Rate		Estimated No. of Units	Total Estimated Costs
1a Mobilization and demobilization, including site set-up, breakdown, clean-up, repair and site restoration.	$200	Lump sum	1 Event	$200
b Non-mobile decontamination pad	$155	Lump sum	1 Pad	$155
2 Well set-up	$0	Per location	12 Locations	$0
3 Geoprobe System				
Truck/Van/ATV-mounted unit	$850	Per 8-hour day	1 Day	$850
Second crew member	$175	Per 8-hour day	0 Day	$0
4 Overtime charge for on-site work	$50	Per person hour	0 Person hours	$0
5 Soil sampling				
Large-core samples	$9	Per 2-foot sample	4 Samples	$36
Macro-core samples	$9	Per 2-foot sample	16 Samples	$144
6 Bentonite powder	$35	Per bag	2 Bags	$70
7 Asphalt patch	$7.50	Per bag	2 Bags	$15
8 Standby time	$75	Per hour	1 Hours	$75

SUBTOTAL	**$1,545**
SUBCONTRACT MANAGEMENT FEE	**$0**
TOTAL	**$1,545**

SCHEDULE 2.11 (f) 2
UNIT PRICE SUBCONTRACTS
SUMMARY
Fumex Sanitation Site Remedial Design
Work Assignment No. D003600-50

NAME OF SUBCONTRACTOR	SERVICES TO BE PERFORMED	SUBCONTRACT PRICE	MANAGEMENT FEE
Mitkem Corporation	Sample Analysis	$3,445	$0

Item	Method	Maximum Reimbursement Rate	Estimated Units	Total Estimated Cost
Soil				
Pesticides	EPA SOW OLM04.2 (6/00 ASP)	$95.00 per sample	9	$855.00
PCBs	EPA SOW OLM04.2 (6/00 ASP)	$60.00 per sample	1	$60.00
Full TCLP	6/00 ASP	$540.00 per sample	1	$540.00
Reactivity	6/00 ASP	$60.00 per sample	1	$60.00
Corrosivity	6/00 ASP	$5.00 per sample	1	$5.00
Ignitability	6/00 ASP	$25.00 per sample	1	$25.00
Groundwater				
Pesticides	EPA SOW OLM04.2 (6/00 ASP)	$95.00 per sample	14	$1,330.00
QA/QC Samples				
Soil				
Matrix Spike/Matrix Spike Duplicate/Matrix Spike Blank				
Pesticides	EPA SOW OLM04.2 (6/00 ASP)	$95.00 per sample	3	$285.00
Groundwater				
Matrix Spike/Matrix Spike Duplicate/Matrix Spike Blank				
Pesticides	EPA SOW OLM04.2 (6/00 ASP)	$95.00 per sample	3	$285.00

SUBTOTAL	**$3,445.00**
SUBCONTRACT MANAGEMENT FEE	**$0**
TOTAL	**$3,445.00**

SCHEDULE 2.11 (f) 3
UNIT PRICE SUBCONTRACTS
SUMMARY
Fumex Sanitation Site Remedial Design
Work Assignment No. D003600-50

NAME OF SUBCONTRACTOR	SERVICES TO BE PERFORMED	SUBCONTRACT PRICE	MANAGEMENT FEE
Consumer Markouts, Inc.	On-site Utility Markout	$4,080	$0

Item	Maximum Reimbursement Rate	Estimated No. of Units	Total Estimated Costs
On-site Utility Markout	$2,720 per day	1.5 days	$4,080
	SUBTOTAL		$4,080
	SUBCONTRACT MANAGEMENT FEE		$0
	TOTAL		$4,080

SCHEDULE 2.11 (f) 4
UNIT PRICE SUBCONTRACTS
SUMMARY
Fumex Sanitation Site Remedial Design
Work Assignment No. D003600-50

NAME OF SUBCONTRACTOR	SERVICES TO BE PERFORMED	SUBCONTRACT PRICE	MANAGEMENT FEE
Jamaica Blueprint Company, Inc.	Printing	$8,892	$0

Item	Maximum Reimbursement Rate	Estimated No. of Units	Total Estimated Costs
Draft Plans and Specifications			
Specifications, 1,000 double-sided sheets each	$105 per set	7 sets	$735
Drawing Sets, 10 drawings each	$14 per set	7 sets	$95
Draft Final Plans and Specifications			
Specifications, 1,000 double-sided sheets each	$105 per set	7 sets	$735
Drawing Sets, 10 drawings each	$14 per set	7 sets	$95
Draft Plans and Specifications			
Specifications, 1,000 double-sided sheets each	$85 per set	77 sets	$6,541
Drawing Sets, 10 drawings each	$9 per set	77 sets	$693

SUBTOTAL	**$8,892**
SUBCONTRACT MANAGEMENT FEE	**$0**
TOTAL	**$8,892**

Project Name: Fumex Sanitation Site Remedial Design
Work Assignment No.: D003600-50
Task No./Name: All Tasks
Complete: 0.00%

SCHEDULE 2.11 (g)
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	$35,931	0.00
2. Indirect	0.00	0.00	0.00	0.00	0.00	0.00	$56,879	0.00
3. Subtotal Direct Salary Costs and Indirect Costs	0.00	0.00	0.00	0.00	0.00	0.00	$92,811	0.00
4. Travel	0.00	0.00	0.00	0.00	0.00	0.00	$479	0.00
5. Other Non-Salary Costs	0.00	0.00	0.00	0.00	0.00	0.00	$1,969	0.00
6. Subtotal Direct Non-Salary Costs	0.00	0.00	0.00	0.00	0.00	0.00	$2,448	0.00
7. Subcontractors	0.00	0.00	0.00	0.00	0.00	0.00	$26,365	0.00
7a. Management Fee	0.00	0.00	0.00	0.00	0.00	0.00	$0	0.00
8. Total Work Assignment Cost	0.00	0.00	0.00	0.00	0.00	0.00	$121,623	0.00
9. Fixed Fee	0.00	0.00	0.00	0.00	0.00	0.00	$7,796	0.00
10. Total Work Assignment Price	0.00	0.00	0.00	0.00	0.00	0.00	$129,419	0.00

Project Manager (Engineer) _____ Date _____

Project Name: Fumex Sanitation Site Remedial Design
Work Assignment No.: D003600-50
Task No./Name: 1/Work Plan Development
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	$4,754	0.00
2. Indirect	0.00	0.00	0.00	0.00	0.00	0.00	$7,525	0.00
3. Subtotal Direct Salary Costs and Indirect Costs	0.00	0.00	0.00	0.00	0.00	0.00	$12,278	0.00
4. Travel	0.00	0.00	0.00	0.00	0.00	0.00	$11	0.00
5. Other Non-Salary Costs	0.00	0.00	0.00	0.00	0.00	0.00	$85	0.00
6. Subtotal Direct Non-Salary Costs	0.00	0.00	0.00	0.00	0.00	0.00	$96	0.00
7. Subcontractors	0.00	0.00	0.00	0.00	0.00	0.00	$0	0.00
7a. Management Fee	0.00	0.00	0.00	0.00	0.00	0.00	$0	0.00
8. Total Work Assignment Cost	0.00	0.00	0.00	0.00	0.00	0.00	$12,374	0.00
9. Fixed Fee	0.00	0.00	0.00	0.00	0.00	0.00	$1,031	0.00
10. Total Work Assignment Price	0.00	0.00	0.00	0.00	0.00	0.00	$13,406	0.00

Project Manager (Engineer) _____ Date _____

Project Name: Fumex Sanitation Site Remedial Design
Work Assignment No.: D003600-50
Task No./Name: 2/Pre-Design Field Investigation
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	$3,024	0.00
2. Indirect	0.00	0.00	0.00	0.00	0.00	0.00	$4,787	0.00
3. Subtotal Direct Salary Costs and Indirect Costs	0.00	0.00	0.00	0.00	0.00	0.00	$7,811	0.00
4. Travel	0.00	0.00	0.00	0.00	0.00	0.00	$423	0.00
5. Other Non-Salary Costs	0.00	0.00	0.00	0.00	0.00	0.00	$1,114	0.00
6. Subtotal Direct Non-Salary Costs	0.00	0.00	0.00	0.00	0.00	0.00	$1,537	0.00
7. Subcontractors	0.00	0.00	0.00	0.00	0.00	0.00	$17,472	0.00
7a. Management Fee	0.00	0.00	0.00	0.00	0.00	0.00	$0	0.00
8. Total Work Assignment Cost	0.00	0.00	0.00	0.00	0.00	0.00	$26,820	0.00
9. Fixed Fee	0.00	0.00	0.00	0.00	0.00	0.00	$656	0.00
10. Total Work Assignment Price	0.00	0.00	0.00	0.00	0.00	0.00	$27,476	0.00

Project Manager (Engineer) _____ Date _____

Project Name: Fumex Sanitation Site Remedial Design
Work Assignment No.: D003600-50
Task No./Name: 3/Remedial Design
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	$24,906	0.00
2. Indirect	0.00	0.00	0.00	0.00	0.00	0.00	$39,427	0.00
3. Subtotal Direct Salary Costs and Indirect Costs	0.00	0.00	0.00	0.00	0.00	0.00	$64,333	0.00
4. Travel	0.00	0.00	0.00	0.00	0.00	0.00	$22	0.00
5. Other Non-Salary Costs	0.00	0.00	0.00	0.00	0.00	0.00	$505	0.00
6. Subtotal Direct Non-Salary Costs	0.00	0.00	0.00	0.00	0.00	0.00	$527	0.00
7. Subcontractors	0.00	0.00	0.00	0.00	0.00	0.00	$8,892	0.00
7a. Management Fee	0.00	0.00	0.00	0.00	0.00	0.00	$0	0.00
8. Total Work Assignment Cost	0.00	0.00	0.00	0.00	0.00	0.00	$73,753	0.00
9. Fixed Fee	0.00	0.00	0.00	0.00	0.00	0.00	$5,404	0.00
10. Total Work Assignment Price	0.00	0.00	0.00	0.00	0.00	0.00	$79,157	0.00

Project Manager (Engineer) _____ Date _____

Project Name: Fumex Sanitation Site Remedial Design
Work Assignment No.: D003600-50
Task No./Name: 4/Pre-Award Services
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	$2,050	0.00
2. Indirect	0.00	0.00	0.00	0.00	0.00	0.00	$3,245	0.00
3. Subtotal Direct Salary Costs and Indirect Costs	0.00	0.00	0.00	0.00	0.00	0.00	$5,295	0.00
4. Travel	0.00	0.00	0.00	0.00	0.00	0.00	$11	0.00
5. Other Non-Salary Costs	0.00	0.00	0.00	0.00	0.00	0.00	$65	0.00
6. Subtotal Direct Non-Salary Costs	0.00	0.00	0.00	0.00	0.00	0.00	$76	0.00
7. Subcontractors	0.00	0.00	0.00	0.00	0.00	0.00	$0	0.00
7a. Management Fee	0.00	0.00	0.00	0.00	0.00	0.00	$0	0.00
8. Total Work Assignment Cost	0.00	0.00	0.00	0.00	0.00	0.00	$5,371	0.00
9. Fixed Fee	0.00	0.00	0.00	0.00	0.00	0.00	$445	0.00
10. Total Work Assignment Price	0.00	0.00	0.00	0.00	0.00	0.00	$5,816	0.00

Project Manager (Engineer) _____ Date _____

Project Name: Fumex Sanitation Site Remedial Design
Work Assignment No.: D003600-50
Task No./Name: 5/Citizen Participation
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	$1,197	0.00
2. Indirect	0.00	0.00	0.00	0.00	0.00	0.00	$1,896	0.00
3. Subtotal Direct Salary Costs and Indirect Costs	0.00	0.00	0.00	0.00	0.00	0.00	$3,093	0.00
4. Travel	0.00	0.00	0.00	0.00	0.00	0.00	$11	0.00
5. Other Non-Salary Costs	0.00	0.00	0.00	0.00	0.00	0.00	$200	0.00
6. Subtotal Direct Non-Salary Costs	0.00	0.00	0.00	0.00	0.00	0.00	$211	0.00
7. Subcontractors	0.00	0.00	0.00	0.00	0.00	0.00	$0	0.00
7a. Management Fee	0.00	0.00	0.00	0.00	0.00	0.00	$0	0.00
8. Total Work Assignment Cost	0.00	0.00	0.00	0.00	0.00	0.00	$3,304	0.00
9. Fixed Fee	0.00	0.00	0.00	0.00	0.00	0.00	$260	0.00
10. Total Work Assignment Price	0.00	0.00	0.00	0.00	0.00	0.00	$3,564	0.00

Project Manager (Engineer) _____ Date _____

SCHEDULE 2.11 (g) SUPPLEMENTAL
MONTHLY COST CONTROL REPORT
SUBCONTRACTS

Subcontract Name	Subcontract Costs Claimed This Application Incl. Resubmittals	Subcontract Costs Approved for Payment on Previous Application	Total Subcontract costs to Date (A plus B)	Subcontract Approved Budget	Management Fee Budget	Management Fee Paid	Total Costs To Date
1. Zebra Environmental Corp.	$0.00	$0.00	$0.00	$1,545	$0		
2. Mitkem Corporation	$0.00	$0.00	$0.00	$3,445	$0		
3. YEC, Inc.	$0.00	$0.00	$0.00	$8,402	$0		
4. Consumer Markouts, Inc.	$0.00	$0.00	$0.00	$4,080	$0		
5. Jamaica Blueprint Co., Inc.	$0.00	$0.00	$0.00	$8,892	$0		
Total				$26,365	$0		

Schedule 2.11 (h)

Date Prepared:
Billing Period
Invoice No.

Project Name: Fumex Sanitation Site Remedial Design
Work Assignment No.: D003600-50

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/ 0	0/ 6	0/ 0	0/ 64	0/ 16	0/ 0	0/ 24	0/ 14	0/ 8	0/ 132
Task 2	0/ 0	0/ 1	0/ 0	0/ 6	0/ 16	0/ 20	0/ 84	0/ 22	0/ 4	0/ 153
Task 3	0/ 0	0/ 24	0/ 0	0/ 10	0/ 56	0/ 40	0/ 132	0/ 692	0/ 8	0/ 962
Task 4	0/ 0	0/ 6	0/ 0	0/ 0	0/ 0	0/ 0	0/ 16	0/ 52	0/ 2	0/ 76
Task 5	0/ 0	0/ 2	0/ 0	0/ 0	0/ 8	0/ 0	0/ 14	0/ 18	0/ 0	0/ 42
Total Hours	0/ 0	0/ 39	0/ 0	0/ 80	0/ 96	0/ 60	0/ 270	0/ 798	0/ 22	0/ 1365
TOTAL HOURS	0/ 0	0/ 39	0/ 0	0/ 80	0/ 96	0/ 60	0/ 270	0/ 798	0/ 22	0/ 1365

MBE/WBE
UTILIZATION PLAN
SUMMARY
Fumex Sanitation Site Remedial Design
Work Assignment No. D003600-50

Areas to be Subcontracted	Subcontractor Name	MBE/WBE	Total Subcontract Value	% MBE/WBE Utilization
1. Sample Analysis	Mitkem Corporation	MBE	$3,445	2.7%
2. Land Surveying	YEC, Inc.	MBE	$8,402	6.5%
3. Reproduction Services	Jamaica Blueprint Co., Inc.	WBE	$8,892	6.9%
Total MBE Utilization	MBE Subcontract Value / Total Contract Value	=	$11,847 / $128,969	9.2%
Total WBE Utilization	WBE Subcontract Value / Total Contract Value	=	$8,892 / $128,969	6.9%
Total MBE/WBE Utilization	MBE/WBE Subcontract Value / Total Contract Value	=	$20,740 / $128,969	16.1%