

PRELIMINARY SITE ASSESSMENT
**PROJECT MANAGEMENT WORK PLAN
ADDENDUM I**

Garden City Park Industrial Area
Town of North Hempstead
Nassau County, New York
Contract No. D002708-8.1

Remed.



Dvirka and Bartilucci
Consulting Engineers

MARCH 1994

PRELIMINARY SITE ASSESSMENT PROJECT MANAGEMENT WORK PLAN

ADDENDUM 1

**PRELIMINARY SITE ASSESSMENT
FOR THE
GARDEN CITY PARK INDUSTRIAL AREA
TOWN OF NORTH HEMPSTEAD
NASSAU COUNTY, NEW YORK**

CONTRACT NO. D002708-8.1

PREPARED FOR

**NEW YORK STATE DEPARTMENT
OF ENVIRONMENTAL CONSERVATION**

BY

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

MARCH 1994

**PRELIMINARY SITE ASSESSMENT
GARDEN CITY PARK INDUSTRIAL AREA**

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1.0 INTRODUCTION

As part of New York State's program to investigate potential hazardous waste sites, the New York State Department of Environmental Conservation (NYSDEC) has entered into a contract with the firm of Dvirka and Bartilucci Consulting Engineers of Syosset, New York to conduct a preliminary site assessment (PSA) for the Garden City Park Industrial Area located in the Town of North Hempstead, Nassau County, New York. The PSA for this site is being performed with funds allocated under the New York State Superfund program.

This document, entitled "Preliminary Site Assessment Work Plan for Garden City Park Industrial Area," has been prepared in accordance with NYSDEC Technical and Administrative Guidance Memoranda and contains a site-specific field operation and investigation plan, quality assurance/quality control (QA/QC) plan, and health and safety plan necessary to carry out all phases of the preliminary site assessment. Each of these subplans are prepared essentially as "stand-alone" documents.

The work plan also includes the rationale for the design of the field program including the selection of sampling locations, the chemical constituents of concern, the procedures to assure the technical quality of the samples and safety procedures to protect worker health.

2.0 SUMMARY OF EXISTING INFORMATION

2.1 Site Description

The Garden City Park Industrial Area (GCPIA) is located in the Town of North Hempstead, Nassau County, New York (see Figure 2-1). The site is approximately 65 acres in size and is bordered by the Long Island Railroad (LIRR) on the south and Herricks Road on the east. Park Avenue between Herricks Road and Armstrong Road, and Broadway between Armstrong Road and Court House Road forms the northern boundary. Nassau Boulevard and Court House Road form the western boundary (see Figure 2-2).

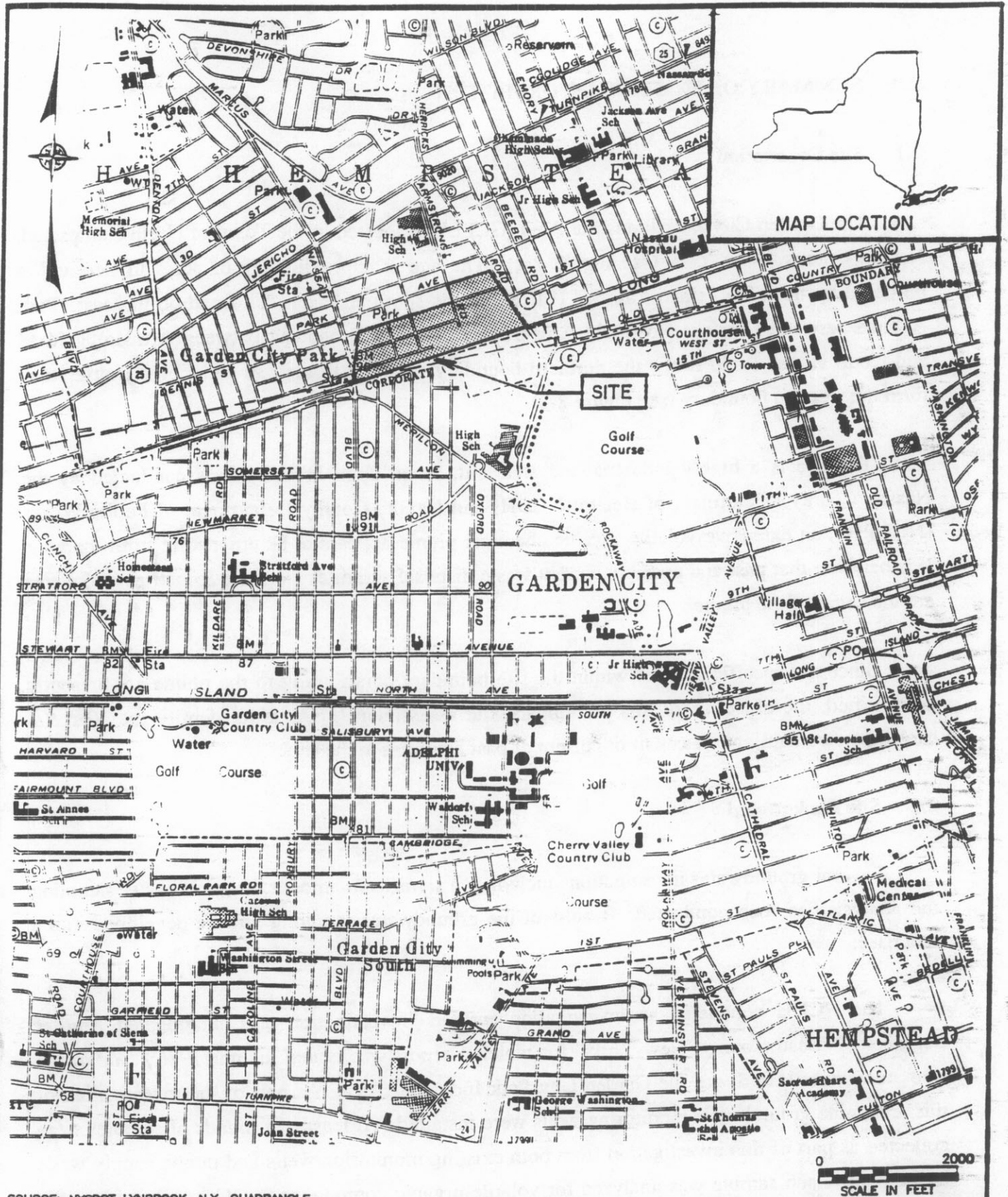
The site is a highly industrialized area and, based upon investigations conducted by the Nassau County Department of Health (NCDH) and Nassau County Department of Public Works (NCDPW), an extensive volatile organic chemical plume appears to be emanating from the area. It is believed that past and possibly current waste disposal activities from the industries in the area are the cause of the plume.

Since the specific sources within the site boundary contributing to the plume are presently unidentified, the objective of this preliminary site assessment (PSA) is to identify the source(s) causing the contamination as part of current or past activities at the site.

2.2 Site Background

Several groundwater investigations including a significant amount of groundwater sampling and analysis has been conducted. Results of the groundwater sampling will be developed into a data base.

The NCDH conducted an investigation entitled "Investigation of Contaminated Aquifer Segments, Nassau County, New York," for which a report was issued in June 1986. One of the five areas investigated was the Garden City Park Industrial Area. As part of the investigation of this area, nine groundwater monitoring wells were installed. At least two rounds of samples were collected as part of this investigation from both existing monitoring wells and public supply wells in the area. Each sample was analyzed for volatile organic compounds (VOCs). Results of the sample analysis indicated the presence of VOCs exceeding NYS guidelines for drinking water in nine of the 17 wells sampled. The primary contaminant detected was tetrachloroethylene. The



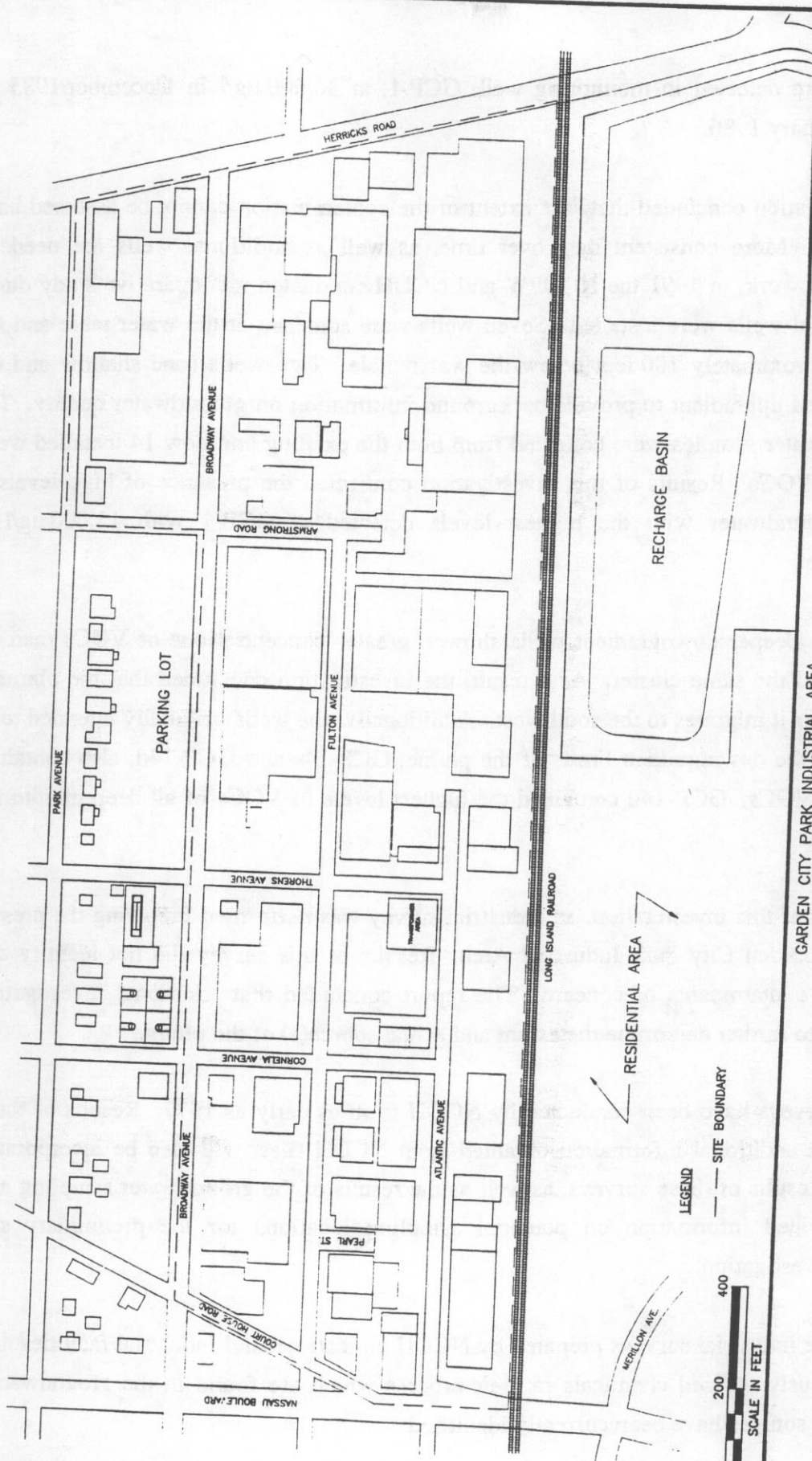
GARDEN CITY PARK INDUSTRIAL AREA
GARDEN CITY, NEW YORK

SITE LOCATION MAP



Dvirka and Bartilucci
Consulting Engineers

FIGURE 2 - 1



GARDEN CITY PARK INDUSTRIAL AREA
GARDEN CITY, NEW YORK

SITE MAP

db Dvirka and Bartilucci
Consulting Engineers

FIGURE 2-2

highest levels were detected in monitoring well, GCP-1, at 36,000 ug/l in December 1985 and 50,000 ug/l in January 1986.

The investigation concluded that "the extent of the contamination cannot be assessed based on available data. More consistent data over time, as well as additional wells are needed." Subsequent to this work, in 1991 the NCDPW and NCDH conducted a cooperative study during which 12 additional wells were installed. Seven wells were screened at the water table and five were screened approximately 100 feet below the water table. Two wells (one shallow and one deep) were installed upgradient to provide background information on groundwater quality. Two rounds of groundwater samples were collected from both the existing and new 14 installed wells, and analyzed for VOCs. Results of this investigation confirmed the presence of high levels of VOCs in the groundwater with the highest levels detected at GCP-1 with 13,000 ug/l of tetrachloroethylene.

Some of the deeper downgradient wells showed greater concentrations of VOCs than the water table wells in the same cluster. As a result, the investigation concluded that the plume is moving vertically as it migrates to the southwest. Additionally, the wells originally intended to be installed to define the downgradient limits of the plume, GCP-14s and GCP-14d, also contained elevated levels of VOCs. GCP-14d contained the highest levels of VOCs of all deep monitoring wells with 744 ug/l.

Also, as part of this investigation, an industrial survey was performed involving the present occupants of the Garden City Park Industrial Area. Results of this survey did not identify any major uses of the contaminants of concern. The report concluded that additional investigation would be required to further determine the extent and actual source(s) of the plume.

Industrial surveys have been conducted by NCDH from as early as 1977. Results of these surveys, as well as additional information obtained from NCDH files, will also be incorporated into a data base. Results of these surveys, as well as the results of the groundwater sampling and analysis, has provided information on potential sampling locations for the preliminary site assessment field investigation.

Results of the industrial surveys prepared by NCDH indicate several industrial facilities that currently or previously utilized chemicals in their process which are found in the groundwater. However, no major sources have been currently identified.

3.0 SCOPING OF THE PRELIMINARY SITE ASSESSMENT

3.1 Approach and Objectives

The approach to this preliminary site assessment for the Garden City Park Industrial Area is to conduct a review of existing information and field investigation in an attempt to identify the source or sources contributing to groundwater contamination. The information provided in this document is structured in order to describe the scope of work to be conducted during this PSA.

3.2 Project Description

3.2.1 Task A - Scoping Plan

Prior to conducting a file review or site visit, a scoping plan was prepared and submitted to NYSDEC for review and approval of a preliminary budget. This plan, dated October 1993, contained a project schedule, staffing plan, estimated budget, M/WBE Utilization Plan and a list of proposed subcontractors.

3.2.2 Task 1 - Project Scoping

The initial phase of this project included data collection and review of existing information, meetings and interviews with key project personnel and a site visit.

Files from Nassau County Department of Health, Nassau County Department of Public Works and New York State Department of Environmental Conservation, including groundwater and water supply data, and industrial chemical use and disposal information, were obtained and reviewed. This data aided in the development of this detailed field investigation work plan.

A scoping meeting with NYSDEC personnel was held to discuss the project objectives, including site specific quality assurance and quality control objectives, sampling locations and procedures. An additional meeting was held with the Long Island Water Conference on August 25, 1993, to discuss their concerns regarding groundwater quality in the Garden City Park Industrial Area and scope of work for this PSA.

A site visit of the study area was also conducted on November 23, 1993, to familiarize key project personnel with the area and to assess the proposed field investigation strategy. The site visit was conducted in order to supplement the evaluations made during data collection.

3.2.3 Task 2 Work Plan Development

The second phase of this project includes development of a detailed work plan. This work plan, as represented by this document, utilizes all information obtained during the first phase of the project to modify, if necessary, the proposed sampling strategy. If modified, sufficient documentation is provided to justify the changes. This work plan includes the following site specific subplans:

- o Field Operations/Sampling Plan
- o Quality Assurance/Quality Control Plan
- o Health and Safety Plan

This document presents the detailed activities comprising the components of this PSA, including sampling and analytical procedures, data validation and report preparation, and is prepared in accordance with NYSDEC Technical and Administrative Guidance Memoranda.

As part of work plan development, a site base map was prepared at a scale of 1"-200'. A recent aerial photograph of the site was obtained and utilized to prepare this base map.

3.2.3.1 - Subcontractor Procurement

Conducted concurrently with the development of this work plan was the procurement of subcontractors for this PSA. Subcontractors will be utilized to conduct the following work:

- o Groundwater and soil probe survey
- o Field sample analysis
- o Laboratory sample analysis
- o Monitoring well installation

Site specific specifications, where applicable, were developed and provided to NYSDEC for review and approval prior to solicitation of bids. Bids were solicited from an appropriate number of subcontractors as required by NYSDEC. Bids that were received were reviewed and a summary of the bids were provided to NYSDEC for review prior to selection of the subcontractor. Subcontractor costs are provided as part of this work plan.

3.2.3.2 - Data Base Development

Also conducted concurrently with work plan development will be development of a computer data base to analyze and compile existing data and information, including building address, type of business, survey data, chemical usage, disposal method and comments for the industrial facilities in the study area. A separate data base will include the results of groundwater sampling. The data gathered during the first phase of this project will be tabulated in various forms for analysis.

3.2.4 Task 3 Implementation of the Field Investigation

The third phase of the project will consist of implementation of the field investigation. The field investigation for the Garden City Park Industrial Area will include the following:

- o Groundwater probe survey
- o Subsurface soil sampling
- o Groundwater sampling
- o Industrial facility inspections (if required)
- o Dry well sampling (if required)
- o Monitoring well installation (if required)

Groundwater samples will be collected from groundwater probes and samples will be analyzed in the mobile field laboratory utilizing a gas chromatograph (GC) equipped with a purge and trap for select compounds (tetrachloroethene [PCE], trichloroethene [TCE] and 1,1,1-trichloroethane [TCA]). Approximately three subsurface soil samples will be collected from soil probe locations in the vicinity of the potential sources to be identified in the field. The soil samples will also be analyzed in the field for the select compounds. Drainage water and sediment samples may also be collected from dry wells associated with potential sources of contamination.

Further description of sampling procedures, frequency of sampling and sample locations are described in detail in the Field Activities Plan in Section 5.0 of this document. A summary of the field investigation program is provided in Table 3-1.

3.2.5 Task 4 Report Preparation

At the conclusion of the field investigation, a PSA report will be prepared. The report will present the information and data obtained during the scoping of the project, and the analytical results and information obtained during the field investigation.

Table 3-1

GARDEN CITY PARK INDUSTRIAL AREA
PRELIMINARY SITE ASSESSMENT
FIELD INVESTIGATION SUMMARY

Program Element

Groundwater Probe Survey	Approximately 30 groundwater probe locations will be installed based on a grid on public right-of-way. Ten additional locations, based upon the results of the initial 30, will be installed to further isolate/confirm potential sources. Five locations may also be installed on-site at potential source facilities.
Surface/Subsurface Soil Sampling (Soil Probe)	<p>Approximately 20 surface and/or subsurface soil samples will be collected from the groundwater probe locations near potential sources. The samples will be analyzed for select compounds (PCE, TCE and TCA) in the mobile field laboratory utilizing a portable gas chromatograph (GC) equipped with a purge and trap. Three of the 20 samples will be sent to an off-site laboratory for confirmatory volatile organic, TCL metals and conventional parameter analysis.</p> <p>Two representative soil samples will be collected from the unsaturated zone just above the water table and will be analyzed for grain size analysis. Two additional soil samples will be collected from the saturated zone for grain size analysis.</p>
Groundwater Sampling (Groundwater Probe)	Two groundwater samples, one at the water table and one with depth will be collected from each of the groundwater probe locations. Each sample will be analyzed for select compounds (PCE, TCE and TCA) in the field laboratory. Approximately five samples exhibiting elevated levels of these compounds will be sent to an outside laboratory for volatile organics, TCL metals and conventional parameter analysis.
Soil Gas (Soil Gas Probe)	Five soil gas samples will be collected from the same locations that elevated levels of subsurface soil are detected. Soil gas samples will be analyzed for PCE, TCE and TCA in the field laboratory.
Industrial Facility Inspections	Based on the results of the groundwater probe sampling, detailed on-site inspections of approximately five potential source facilities may be conducted. The inspection would include obtaining information on dry wells, chemical usage, and current and past storage and disposal practices.

Table 3-1 (continued)

**GARDEN CITY PARK INDUSTRIAL AREA
PRELIMINARY SITE ASSESSMENT
FIELD INVESTIGATION SUMMARY**

Program Element

Dry Well Sampling

Based on the results of the groundwater probe sampling and on-site inspections, provision will be made to sample five dry wells at industrial facilities determined to be potential sources. All samples will be analyzed for Target Compound List (TCL) +30 VOCs at a laboratory.

Monitoring Well Installation

Once a potential source(s) is identified, approximately three monitoring wells will be installed to confirm the presence of the source.

**Groundwater Sampling
(Monitoring Well)**

One groundwater sample will be collected from each of the monitoring wells installed. Each sample will be analyzed for full TCL +30 parameters.

**Subsurface Soil Sampling
(Monitoring Wells)**

As part of the installation of the monitoring wells, three subsurface soil samples will be collected and analyzed for full TCL +30 parameters.

4.0 PROJECT MANAGEMENT

4.1 Project Schedule and Key Milestones/Reports

The Project Schedule for the Garden City Park Industrial Area Preliminary Site Assessment is provided in Table 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 schedule to ensure timely completion of work. The following is the list of milestones proposed for this project:

- Milestone 1:** Submittal of the Draft Scoping Plan for the Preliminary Site Assessment
- Milestone 2:** Submittal of the Draft Preliminary Site Assessment Work Plan, including the Field Operations/Sampling Plan, Quality Assurance/Quality Control Plan, and Health and Safety Plan
- Milestone 3:** Submittal of the Draft Field Investigation/PSA Report

4.2 Project Management, Organization and Key Technical Personnel

Dvirka and Bartilucci Consulting Engineers will be the prime consultant responsible for the PSA.

The Project Organization Chart for this PSA, illustrating both management and project responsibility functions for the project team and key personnel, is provided in Table 4-2.

Monthly Work Assignment Progress Reports will be prepared and submitted with the monthly invoice. Progress reports will provide technical information by task, compliance with the project schedule, accomplishments, problems and projected changes in project scope, as well as utilization of Minority and Women Business Enterprises.

Table 4-1

**GARDEN CITY PARK INDUSTRIAL AREA
PRELIMINARY SITE ASSESSMENT
PROJECT SCHEDULE**

Task A	<u>Scoping Plan</u>	
	o Submittal of Draft Scoping Plan	4 weeks
	o NYSDEC Review	2 weeks
	o Submittal of Final Scoping Plan	1 week
Task 1	<u>Scoping of the Preliminary Site Assessment</u>	
	o Project Scoping - including File Review and Site Visit	2 weeks
Task 2	<u>Work Plan Development</u>	
	o Submittal of Draft Work Plan	4 weeks
	o NYSDEC Review	2 weeks
	o Submittal of Final Work Plan	1 week
Task 3	<u>Site Characterization</u>	
	o Field Investigation	4 weeks
	o Laboratory Analysis	4 weeks
	o Data Validation	4 weeks
Task 4	<u>Report Preparation</u>	
	o Submittal of Draft PSA Report	4 weeks

Table 4-2

**GARDEN CITY PARK INDUSTRIAL AREA
PRELIMINARY SITE ASSESSMENT
PROJECT ORGANIZATION**

NYSDEC Project Director	John Swartwout
NYSDEC Project Manager	T.S. Manickam
D&B Project Director	Thomas Maher
D&B Project Manager	Maria Dioguardi
D&B Quality Assurance/Quality Control Officer	Robbin Petrella
D&B Health and Safety Officer	Brian Heneveld
D&B Field Operations Manager	Edward Aldrich
D&B Geologist	Keith Robins

5.0 SCHEDULE 2.11

Schedule 2.11(a)

Summary of Work Assignment Price

Work Assignment Number D002708-8.1
Garden City Park Industrial Area

1.	Direct Salary Costs (Schedules 2.10(a) and 2.11(b))	\$24,448
2.	Indirect Costs (Schedule 2.10(g))	\$33,268
3.	Direct Non-Salary Costs (Schedules 2.10(d)(e)(f) and 2.11(c)(d))	\$13,789

Subcontract Costs

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

Name of Subcontractor	Services To Be Performed	Subcontract Price
A. R & L Well Drilling	Monitoring Well Instal.	\$12,680
B. Zebra Environmental	GW/Soil Probe Instal.	\$37,512
C. Pace Laboratories	Field Laboratory Analysis	\$18,425
D. E3I	Laboratory Analysis	\$32,025
E. Nancy Potak	Data Validation	\$4,724
5.	Total Unit Price Subcontracts	\$105,366
6.	Total Subcontract Costs (lines 4 + 5)	\$105,366
7.	Fixed Fee (Schedule 2.10(h))	\$5,772
8.	Total Work Assignment Price (lines 1 + 2 + 3 + 6 + 7)	\$182,643

Engineer/Contract #: Dvirka & Bartilucci/D002708

Project Name: Garden City Park Industrial Area

Date Prepared 03/04/94

Work Assignment D002708-8.1

Schedule 2.11(b)
As of July 1, 1993
Direct Labor Hours Budgeted

Labor Classification	P	AS	SG	ASE(HS)	SS(OA)	JS(GE)	D	AA	JS	AT	WP	Total No. Of Direct Labor Hrs. Budgeted
TYPE Level	IX	IV	V	VII	V	II	IV	II	II	V	II	
Task A	12	32	8	0	8	0	12	6	0	0	8	86
Task 1	20	48	4	0	0	0	0	6	0	0	0	78
Task 2	6	56	16	8	24	0	16	6	40	4	32	208
Task 3	8	24	200	8	40	200	0	6	0	0	4	490
Task 4	10	48	80	0	48	16	20	12	0	6	24	264
Total Hours	56	208	308	16	120	216	48	36	40	10	68	1126
Total Labor Costs	2,437	4,214	7,389	567	2,879	3,450	972	575	639	240	1,086	24,448

Labor Classification Key:

Principal	P	Associate Engineer	ASE	Word Processor	WP
Associate Scientist	AS	H & S Officer	HS	Junior Drafter	JD
Senior Geologist	SG	Geologist	GE		
Junior Scientist	SS	Admin. Asst.	AA		
QC Officer	QA	Drafter	D		
Senior Scientist	JS	Assoc. Tech.	AT		
Geologist	EC	Assistant Engineer	AE		

Engineer/Contract Number D002708

Project Name Garden City Park Industrial Area

Work Assignment Number 8

Date Prepared

October 20, 1993

Schedule 2.11(b-1)

Direct Administrative Labor Hours Budgeted

NSPE	9	8	7	6	5	4	3	2	1	Total Number of Administrative Hours
Labor Classification										
Task A	1	0	0	0	0	2	0	14	0	17
Task 1	1.5	0	0	0	0	2	0	6	0	9.5
Task 2	1.5	0	0	0	0	2	0	38	0	41.5
Task 3	1.5	0	0	0	0	2	0	10	0	13.5
Task 4	1.5	0	0	0	0	2	0	36	0	39.5
TOTAL (ALL NSPE)	7	0	0	0	0	10	0	104	0	121

Schedule 2.11(c)
Direct Non-Salary Costs
Work Assignment Number D002708-8.1

Item	Reimbursement* Rate (Specify Unit)	Est. No. of Units (Task A) (Task 1)	Est. No. of Units (Task 2)	Est. No. of Units (Task 3)	Est. No. of Units Estimated (Task 4) Cost
Miscellaneous					
1. Transportation (Personal Car)	.23/mile	0	400	0	0
2. Car Rental	\$64/day****	0	0	0	0
3. Van Rental	\$334/week	0	0	4	0
4. Gas	\$40/week	0	0	4	0
5. Tolls/Parking	\$15/day	0	1	0	0
6. Misc. Services*****	\$200/set	1	1	1	1
7. Express Mail	\$40/package	2	2	2	2
Personal Protective Equipment					
1. Level D Safety Equipment	18.00(\$/person/day)	0	0	40	0
2. Level C Safety Equipment	51.00(\$/person/day)	0	0	0	0
3. Level B Safety (SCBA) Equipment	74.00(\$/person/day)	0	0	0	0
					\$92
					\$0
					\$1,336
					\$160
					\$15
					\$1,000
					\$400
					\$720
					\$0
					\$0

3,723.00

note:

In-house costs for computer services, postage, reproduction, printing, and telephone are not allowable as direct non-salary costs. These costs should be included in the indirect cost pool used to determine the indirect cost percentage for the Engineer.

See Schedule 2.10(b) for rates.

**Includes gas

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

Schedule 2.11(d) 3

Maximum Reimbursement Rate for Vendor - Rented Equipment

Item	¹ Maximum Reimbursement Rate	Estimated Usage (Period of time)	Estimate Usage Cost (Col. 2 x 3)
Century OVA 128	125.00	20	\$2,500
Photovac Microtip	125.00	20	\$2,500
IE Miniram Digital Dust Indicator	90.00	20	\$1,800
Bole Parmer Conductivity Meter	30.00	20	\$600
Bole Parmer Turbidimeter	30.00	20	\$600
Bole Parmer Digital pH Meter	20.00	20	\$400
Dissolved Oxygen Meter	45.00	20	\$900
udlum Geiger Counter	35.00	1	\$35
Linco Slope Water Level Indicator	15.00	20	\$300
Total			\$9,635

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

Work Assignment No. D002708-8.1

Schedule 2.11(d) 4

Item	Estimated Quantity	Units	Unit Cost	Total Budgeted Cost (Col. 2 x 3)
Loss Disposable Polyethylene Weighted Bailers	4	Bailers	169.00 /case of 24	\$28
terile Polystyrene Sampling Scoops	4	case of 100	78.00 /case of 100	\$3
ong Handled Polyethylene Scoops	5	scoops	40.00 /scoop	\$200
Estimated		Total		\$231

Schedule 2.11(d) 5
Consumable Supplies

Item	Estimated Quantity	Units	Unit Cost	Total Budgeted Cost (Col. 2 x 3)
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Miscellaneous

				\$200
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Total			\$200
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SCHEDULE 2.11 (f) 1
MAXIMUM REIMBURSEMENT RATES FOR
UNIT PRICE SUBCONTRACTS
GARDEN CITY PARK INDUSTRIAL AREA

<u>NAME OF SUBCONTRACTOR</u>	<u>SERVICES TO BE PERFORMED</u>	<u>SUBCONTRACT PRICE</u>	
R & L WELL DRILLING	MONITORING WELL INSTALLATION	\$12,680.10	
<u>ITEM</u>	<u>UNITS</u>	<u>RATE</u>	<u>TOTAL PRICE</u>
1. A. MOBILIZATION/DEMobilIZATION	LUMP SUM	\$750.00	\$750.00
B. CONST. & REMOVAL OF DECON PAD	LUMP SUM	\$800.00	\$800.00
C. SITE SETUP AND REMOVAL	LUMP SUM	\$150.00	\$150.00
D. WELL/BORING SETUP	3 WELLS	\$85.00 /WELL	\$255.00
2. A. HOLLOW STEM AUGER			
1. 0-50 FT			
a. 4.25 IN H.S.A.	150 FT	\$20.00 /FT	\$3,000.00
2. 50-100 FT			
a. 4.25 IN H.S.A.	30 FT	\$25.00 /FT	\$750.00
3. SPLIT SPOON SAMPLING			
1. 0-50 FT.			
a. 2 IN. OD	75 SAMPLES	\$35.00 /SAMP	\$2,625.00
2. 50-100 FT.			
a. 2 IN. OD	15 SAMPLES	\$35.00 /SAMP	\$525.00
4. PVC SCREEN SCHEDULE 40			
A. 2 IN ID # 10 SLOT	30 FT	\$3.32 /FT	\$99.60
10 FOOT LENGTHS			
5. PVC WELL RISER, SCHEDULE 40	150 FT	\$2.31 /FT	\$346.50
A. 2 IN ID			
6. BENTONITE			
A. PELLETS	3 BUCKETS	\$58.00 /BUCKET	\$168.00
B. POWDER	2100 LBS	\$0.58 /LB	\$1,176.00
7. GROUT			
A. PORTLAND CEMENT TYPE II	8 BAGS	\$25.00 /BAG	\$200.00
8. WELL SCREEN SANDPACK MATERIAL	10 BAGS	\$12.00 /BAG	\$120.00
9. PRO-CASING			
A. 4 IN ID ABOVE GROUND	3 CASINGS	\$110.00 /CASING	\$330.00
B. Locks	3 LOCKS	\$10.00 /LOCK	\$30.00
11. WELL DEVELOPMENT	9 HRS	\$95.00 /HR	\$855.00
12. STANDBY TIME	5 HRS	\$100.00 /HR	\$500.00
INCREASE FOR NEXT TWELVE MONTHS			\$634.01
	TOTAL		\$12,680.10

SCHEDULE 2.11(f) 2
MAXIMUM REIMBURSEMENT RATES FOR
UNIT PRICE SUBCONTRACTS
GARDEN CITY PARK INDUSTRIAL AREA

<u>NAME OF SUBCONTRACTOR</u>	<u>SERVICES TO BE PERFORMED</u>	<u>SUBCONTRACT PRICE</u>
ZEBRA ENVIRONMENTAL	SOIL/GROUNDWATER PROBE INSTALLATION	\$37,512.00

<u>Item Description</u>	<u>Units</u>	<u>Rate</u>	<u>Total price</u>
1. Mobilization and Demobilization, including, Site Set Up and Installation of a Temporary Decontamination Pad.	1 Lump Sum	\$900.00	\$900.00
2. Geoprobe System or Equivalent with 2 man Crew, includes 8 hours of On-site work	25 Days	\$990.00	\$24,750.00
3. Overtime Charge for On-site Work in Excess of 8 hours	8 Hours	\$175.00	\$1,400.00
4. Probe Sampling			
a. Groundwater Samples	90 Samples	\$19.00	\$1,710.00
b. Soil samples	20 Samples	\$27.00	\$540.00
c. Soil gas samples	5 Samples	\$19.00	\$95.00
5. Portland Cement (Type I or II)	5 Bags	\$9.00	\$45.00
6. Bentonite Powder	5 Bags	\$32.00	\$160.00
7. Bentonite Pellets	1 Bags	\$32.00	\$32.00
8. Standby time	16 Hours	\$80.00	\$1,280.00
9. Site Restoration			
a. Cleanfill	20 Cu Ft	\$9.00	\$180.00
b. Grass Seeding	60 Sq Ft	\$1.00	\$60.00
c. Asphalt	20 Cu Ft	\$9.00	\$180.00
d. Concrete	20 Cu Ft	\$9.00	\$180.00
10. Per Diem includes Meals and Hotel Charges	25 Days	\$0.00	\$0.00
11. Miscellaneous Equipment	Lump Sum	\$0.00	\$0.00
12. Health and Safety (Cost Increment for Level "C" Protection.)	Lump Sum	NB	
13. Traffic Control (assume 1 person, 8 hrs./day)	25 Days	\$240.00	\$6,000.00
TOTAL *			\$37,512.00
*Item 12 not included in total			

SCHEDULE 2.11 (f) 3
MAXIMUM REIMBURSEMENT RATES FOR
UNIT PRICE SUBCONTRACTS
GARDEN CITY PARK INDUSTRIAL AREA

<u>NAME OF SUBCONTRACTOR</u>	<u>SERVICES TO PERFORMED</u>	<u>SUBCONTRACT PRICE</u>
Pace Laboratories	Laboratory Analysis (Field)	\$18,425.00

<u>Sample Matrix</u>	<u>Type of Analysis</u>	<u>Units</u>	<u>Rate</u>	<u>Total Price</u>
1. Groundwater	b. Purge & Trap (PCE,TCE,TCA)	90 Samples	\$15.00	\$1,350.00
2. Soil	b. Purge & Trap (PCE,TCE,TCA)	20 Samples	\$15.00	\$300.00
3. Soil Gas	a. Volatile Organics (PCE,TCE,TCA)	5 Samples	\$15.00	\$75.00
4. Portable GC Rental		25 Days	\$220.00	\$5,500.00
5. Field Chemist		25 Days	\$400.00	\$10,000.00
6. Standby Cost			\$620.00	\$0.00
7. Alternative Power		Lump Sum	\$1,200.00	\$1,200.00
TOTAL FOR PURGE AND TRAP**				\$18,425.00

*Includes costs for 1a, 2a, 3a, 4, 5, 6

**Includes costs for 1b, 2b, 3a, 4, 5, 6

SCHEDULE 2.11(f) 4
MAXIMUM REIMBURSEMENT RATES FOR
UNIT PRICE SUBCONTRACTS
GARDEN CITY PARK INDUSTRIAL AREA

<u>NAME OF SUBCONTRACTOR</u>	<u>SERVICES TO BE PERFORMED</u>		<u>SUBCONTRACT PRICE</u>
Energy and Environmental Engineering, Inc.	Sample Analysis		\$32,025.00
<u>Item</u>	<u>Quantity</u>	<u>Rate</u>	<u>Total Price</u>
Soil/groundwater probe			
<u>Solid</u>			
Volatile Organic Analysis	3	\$225.00 /sample	675.00
TCL Metals	3	\$260.00 /sample	780.00
Chloride	3	\$35.00 /sample	105.00
Nitrate	3	\$25.00 /sample	75.00
Sulfate	3	\$45.00 /sample	135.00
Ammonium	3	\$55.00 /sample	165.00
Boron	3	\$20.00 /sample	60.00
Total Organic Carbon	3	\$75.00 /sample	225.00
<u>Liquid</u>			
Volatile Organic Analysis	5	\$210.00 /sample	1,050.00
TCL Metals	5	\$245.00 /sample	1,225.00
Chloride	5	\$18.00 /sample	90.00
Nitrate	5	\$18.00 /sample	90.00
Nitrite	5	\$18.00 /sample	90.00
Alkalinity	5	\$15.00 /sample	75.00
Sulfate	5	\$15.00 /sample	75.00
Ammonium	5	\$25.00 /sample	125.00
Boron	5	\$15.00 /sample	75.00
Total Organic Carbon	5	\$35.00 /sample	175.00
Total Dissolved Solids	5	\$8.00 /sample	40.00
<u>QA/QC</u>			
Trip Blank, Volatile Organics	3	\$210.00 /sample	630.00
Diskette Deliverable	11	\$30.00 /sample	330.00
Estimated Cleanup Costs	3	\$175.00 /sample	525.00
Shuttle Service		Billable at Cost	<u>150.00</u>
Subtotal for groundwater/soil probe work			6,965.00
<u>Groundwater Monitoring Wells and Dry Wells</u>			
<u>Solid</u>			
TCL +30	8	\$1,240.00 /sample	9,920.00
<u>Liquid</u>			
TCL +30	8	\$1,165.00 /sample	9,320.00
<u>QA/QC</u>			
Trip Blank, TCL VOA +10	1	\$235.00 /sample	235.00
MS/MSD, TCL +30	2	\$1,165.00 /sample	2,330.00
Field Blank, TCL +30	1	\$1,165.00 /sample	1,165.00
Diskette Deliverable	18	\$30.00 /sample	540.00
Estimated Cleanup Costs	8	\$175.00 /sample	1,400.00
Shuttle Service		Billable at Cost	<u>150.00</u>
Subtotal for monitoring wells and dry wells			25,060.00
GRAND TOTAL			\$32,025.00

SCHEDULE 2.11(f) 5
MAXIMUM REIMBURSEMENT RATES FOR
UNIT PRICE SUBCONTRACTS
GARDEN CITY PARK INDUSTRIAL AREA

<u>NAME OF SUBCONTRACTOR</u>	<u>SERVICES TO BE PERFORMED</u>		<u>SUBCONTRACT PRICE</u>
Nancy Potak	Data Validation		\$4,723.95
<u>Item</u>	<u>Quantity</u>	<u>Rate</u>	<u>Total Price</u>
Soil/groundwater probe			
<u>Solid</u>			
Volatile Organic Analysis	3	\$30.00 /sample	90.00
TCL Metals	3	\$45.00 /sample	135.00
Chloride	3	\$2.00 /sample	6.00
Nitrate	3	\$2.00 /sample	6.00
Nitrite	3	\$2.00 /sample	6.00
Sulfate	3	\$2.00 /sample	6.00
Ammonium	3	\$2.00 /sample	6.00
Boron	3	\$2.00 /sample	6.00
Total Organic Carbon	3	\$2.00 /sample	6.00
<u>Liquid</u>			
Volatile Organic Analysis	5	\$30.00 /sample	150.00
TCL Metals	5	\$50.00 /sample	250.00
Chloride	5	\$2.00 /sample	10.00
Nitrate	5	\$2.00 /sample	10.00
Nitrite	5	\$2.00 /sample	10.00
Alkalinity	5	\$2.00 /sample	10.00
Sulfate	5	\$2.00 /sample	10.00
Ammonium	5	\$2.00 /sample	10.00
Boron	5	\$2.00 /sample	10.00
Total Organic Carbon	5	\$2.00 /sample	10.00
Total Dissolved Solids	5	\$2.00 /sample	10.00
<u>QA/QC</u>			
Trip Blank, Volatile Organics	3	\$30.00 /sample	90.00
Subtotal for groundwater/soil probe work			847.00
Groundwater Monitoring Wells and Dry Wells			
<u>Solid</u>			
TCL +30	8	\$204.00 /sample	1,632.00
<u>Liquid</u>			
TCL +30	8	\$180.00 /sample	1,440.00
<u>QA/QC</u>			
Trip Blank, TCL VOA +10	1	\$40.00 /sample	40.00
MS/MSD, TCL +30	2	\$180.00 /sample	360.00
Field Blank, TCL +30	1	\$180.00 /sample	180.00
Subtotal for monitoring wells and dry wells			3,652.00
5 Percent Increase for second twelve months			\$224.95
GRAND TOTAL			\$4,723.95

Engineer: Dvirka & Bartilucci
 Contract No.: D002708
 Project Name: Garden City Park Industrial Area
 Work Assignment No.: D002708-8.1
 Task No./Name: All Tasks
 Complete: 0.00%

Date Prepared:
 Billing Period:
 Invoice No.:

SCHEDULE 2.11 (g)
MONTHLY COST CONTROL REPORT
SUMMARY OF FISCAL INFORMATION

A	B	B1	C	D	E	F	G	H
Costs Claimed This Period	Paid To Date	Disallowances Recorded This Month	Total Disallowed To Date	Total Costs Incurred To Date (A+B+B1)	Estimated Costs To Completion F-D	Total Work Assignment Price (A+B+E)	Approved Budget	Estimated Under/(Over) (G-F)
1. Direct Salary Costs	0.00	0.00	0.00	0.00	0.00	0.00	24,448.00	0.00
2. Indirect	0.00	0.00	0.00	0.00	0.00	0.00	33,288.84	0.00
3. Subtotal Direct Salary Costs and Indirect Costs	0.00	0.00	0.00	0.00	0.00	0.00	57,716.84	0.00
4. Travel	0.00	0.00	0.00	0.00	0.00	0.00	1,603.00	0.00
5. Other Non-Salary Costs	0.00	0.00	0.00	0.00	0.00	0.00	12,186.00	0.00
6. Subtotal Direct Non-Salary Costs	0.00	0.00	0.00	0.00	0.00	0.00	13,789.00	0.00
7. Subcontractors	0.00	0.00	0.00	0.00	0.00	0.00	105,366.10	0.00
8. Total Work Assignment Cost	0.00	0.00	0.00	0.00	0.00	0.00	176,871.94	0.00
9. Fixed Fee	0.00	0.00	0.00	0.00	0.00	0.00	5,771.68	0.00
10. Total Work Assignment Price	0.00	0.00	0.00	0.00	0.00	0.00	182,643.62	0.00

Project Manager (Engineer)

Date

Date Prepared:
Billing Period:
Invoice No.:

SCHEDULE 2.11 (g)
MONTHLY COST CONTROL REPORT
SUMMARY OF FISCAL INFORMATION

Engineer: Dvirka & Bartilucci
Contract No.: D002708
Project Name: Garden City Park Industrial Area
Work Assignment No.: D002708-8.1
Task No./Name: 0A SCOPING PLAN
Complete: 0.00%

	A	B	B1	C	D	E F-D	F	G	H
	Costs Claimed This Period	Paid To Date	Disallowances Recorded This Month	Total Disallowed To Date	Total Costs Incurred To Date (A+B+B1)	Estimated Costs To Completion	Total Work Assignment Price (A+B+E)	Approved Budget	Estimated Under/(Over) (G-F)
1. Direct Salary Costs	0.00	0.00	0.00	0.00	0.00	0.00	0.00	2,021.00	0.00
2. Indirect	0.00	0.00	0.00	0.00	0.00	0.00	0.00	2,750.18	0.00
3. Subtotal Direct Salary Costs and Indirect Costs	0.00	0.00	0.00	0.00	0.00	0.00	0.00	4,771.18	0.00
4. Travel	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
5. Other Non- Salary Costs	0.00	0.00	0.00	0.00	0.00	0.00	0.00	280.00	0.00
6. Subtotal Direct Non-Salary Costs	0.00	0.00	0.00	0.00	0.00	0.00	0.00	280.00	0.00
7. Subcontractors	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
8. Total Work Assignment Cost	0.00	0.00	0.00	0.00	0.00	0.00	0.00	5,051.18	0.00
9. Fixed Fee	0.00	0.00	0.00	0.00	0.00	0.00	0.00	477.12	0.00
10. Total Work Assignment Price	0.00	0.00	0.00	0.00	0.00	0.00	0.00	5,528.29	0.00

Project Manager (Engineer)

Date

Engineer: Dvirka & Bartilucci
Contract No.: D002708
Project Name: Garden City Park Industrial Area
Work Assignment No.: D002708-8.1
Task No./Name: 01 SCOPING
Complete: 0.00%

Date Prepared:
Billing Period:
Invoice No.:

SCHEDULE 2.11(g)
MONTHLY COST CONTROL REPORT
SUMMARY OF FISCAL INFORMATION

	A	B	B1	C	D	E	F	G	H
	Costs Claimed This Period	Paid To Date	Disallowances Recorded This Month	Total Disallowed To Date	Total Costs Incurred To Date (A+B+B1)	F-D Estimated Costs To Completion	Total Work Assignment Price (A+B+E)	Approved Budget	Estimated Under/(Over) (G-F)
1. Direct Salary Costs	0.00	0.00	0.00	0.00	0.00	0.00	0.00	2,035.00	0.00
2. Indirect	0.00	0.00	0.00	0.00	0.00	0.00	0.00	2,769.23	0.00
3. Subtotal Direct Salary Costs and Indirect Costs	0.00	0.00	0.00	0.00	0.00	0.00	0.00	4,804.23	0.00
4. Travel	0.00	0.00	0.00	0.00	0.00	0.00	0.00	107.00	0.00
5. Other Non-Salary Costs	0.00	0.00	0.00	0.00	0.00	0.00	0.00	280.00	0.00
6. Subtotal Direct Non-Salary Costs	0.00	0.00	0.00	0.00	0.00	0.00	0.00	387.00	0.00
7. Subcontractors	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
8. Total Work Assignment Cost	0.00	0.00	0.00	0.00	0.00	0.00	0.00	5,191.23	0.00
9. Fixed Fee	0.00	0.00	0.00	0.00	0.00	0.00	0.00	480.42	0.00
10. Total Work Assignment Price	0.00	0.00	0.00	0.00	0.00	0.00	0.00	5,671.65	0.00

Project Manager (Engineer)

Date

Engineer: Dvirka & Bartilucci
 Contract No.: D002708
 Project Name: Garden City Park Industrial Area
 Work Assignment No.: D002708-8.1
 Task No./Name: 02/WORK PLAN DEVELOPMENT
 Complete: 0.00%

Date Prepared:
 Billing Period:
 Invoice No.:

SCHEDULE 2.11(g)
 MONTHLY COST CONTROL REPORT
 SUMMARY OF FISCAL INFORMATION

	A	B	B1	C	D	E F-D 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	0.00	4,305.00	0.00
2. Indirect	0.00	0.00	0.00	0.00	0.00	0.00	0.00	5,858.24	0.00
3. Subtotal Direct Salary Costs and Indirect Costs	0.00	0.00	0.00	0.00	0.00	0.00	0.00	10,163.24	0.00
4. Travel	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
5. Other Non-Salary Costs	0.00	0.00	0.00	0.00	0.00	0.00	0.00	280.00	0.00
6. Subtotal Direct Non-Salary Costs	0.00	0.00	0.00	0.00	0.00	0.00	0.00	280.00	0.00
7. Subcontractors	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
8. Total Work Assignment Cost	0.00	0.00	0.00	0.00	0.00	0.00	0.00	10,443.24	0.00
9. Fixed Fee	0.00	0.00	0.00	0.00	0.00	0.00	0.00	1,016.32	0.00
10. Total Work Assignment Price	0.00	0.00	0.00	0.00	0.00	0.00	0.00	11,459.57	0.00

Project Manager (Engineer)

Date

Engineer: Dvirka & Bartilucci

Contract No.: D002708

Project Name: Garden City Park Industrial Area

Work Assignment No.: D002708-8.1

Task No./Name: 03/SITE CHARACTERIZATION

Complete: 0.00%

Date Prepared:
Billing Period:
Invoice No.:

SCHEDULE 2.11(g)
MONTHLY COST CONTROL REPORT
SUMMARY OF FISCAL INFORMATION

	A	B	B1	C	D	E	F	G	H
	Costs Claimed This Period	Paid To Date	Disallowances Recorded This Month	Total Disallowed To Date	Total Costs Incurred To Date (A+B+B1)	F-D Estimated Costs To Completion	Total Work Assignment Price (A+B+E)	Approved Budget	Estimated Under/(Over) (G-F)
1. Direct Salary Costs	0.00	0.00	0.00	0.00	0.00	0.00	0.00	10,229.00	0.00
2. Indirect	0.00	0.00	0.00	0.00	0.00	0.00	0.00	13,919.62	0.00
3. Subtotal Direct Salary Costs and Indirect Costs	0.00	0.00	0.00	0.00	0.00	0.00	0.00	24,148.62	0.00
4. Travel	0.00	0.00	0.00	0.00	0.00	0.00	0.00	1,496.00	0.00
5. Other Non- Salary Costs	0.00	0.00	0.00	0.00	0.00	0.00	0.00	11,066.00	0.00
6. Subtotal Direct Non-Salary Costs	0.00	0.00	0.00	0.00	0.00	0.00	0.00	12,562.00	0.00
7. Subcontractors	0.00	0.00	0.00	0.00	0.00	0.00	0.00	105,366.10	0.00
8. Total Work Assignment Cost	0.00	0.00	0.00	0.00	0.00	0.00	0.00	142,076.72	0.00
9. Fixed Fee	0.00	0.00	0.00	0.00	0.00	0.00	0.00	2,414.86	0.00
10. Total Work Assignment Price	0.00	0.00	0.00	0.00	0.00	0.00	0.00	144,491.59	0.00

Project Manager (Engineer)

Date

Engineer: Dvirka & Bartilucci
 Contract No.: D002708
 Project Name: Garden City Park Industrial Area
 Work Assignment No.: D002708-8.1
 Task No./Name: 04/PSA REPORT
 Complete: 0.00%

Date Prepared:
 Billing Period:
 Invoice No.:

SCHEDULE 2.11(g)
 MONTHLY COST CONTROL REPORT
 SUMMARY OF FISCAL INFORMATION

	A	B	B1	C	D	E	F	G	H
	Costs Claimed This Period	Paid To Date	Disallowances Recorded This Month	Total Disallowed To Date	Total Costs Incurred To Date (A+B+B1)	Estimated Costs To Completion F-D	Total Work Assignment Price (A+B+E)	Approved Budget	Estimated Under/(Over) (G-F)
1. Direct Salary Costs	0.00	0.00	0.00	0.00	0.00	0.00	0.00	5,858.00	0.00
2. Indirect	0.00	0.00	0.00	0.00	0.00	0.00	0.00	7,971.57	0.00
3. Subtotal Direct Salary Costs and Indirect Costs	0.00	0.00	0.00	0.00	0.00	0.00	0.00	13,829.57	0.00
4. Travel	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
5. Other Non-Salary Costs	0.00	0.00	0.00	0.00	0.00	280.00	0.00	280.00	0.00
6. Subtotal Direct Non-Salary Costs	0.00	0.00	0.00	0.00	0.00	0.00	0.00	280.00	0.00
7. Subcontractors	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
8. Total Work Assignment Cost	0.00	0.00	0.00	0.00	0.00	0.00	0.00	14,109.57	0.00
9. Fixed Fee	0.00	0.00	0.00	0.00	0.00	0.00	0.00	1,382.96	0.00
10. Total Work Assignment Price	0.00	0.00	0.00	0.00	0.00	0.00	0.00	15,492.52	0.00

Project Manager (Engineer)

Date

::

Engineer: Dvirka & Bartilucci
Contract No.: D002708
Project Name: Garden City Park Industrial Area
Work Assignment No.: D002708-S.1

Date Prepared:
Billing Period:
Invoice No.:

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
1. Zebra Environmental	0.00	0.00	0.00	37512.00
2. PACE Incorporated	0.00	0.00	0.00	18425.00
3. R & L Well Drilling	0.00	0.00	0.00	12680.00
4. Energy and Environmental Engineering	0.00	0.00	0.00	32025.00
5. Nancy Potak	0.00	0.00	0.00	4724.00
Total				105366.00

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

Date Prepared:
Billing Period:
Invoice No.:

Engineer: Dvirka & Bartilucci
Contract No.:
Project Name: Garden City Park Industrial Area
Work Assignment No.: D002708-B

Number of Direct Labor Hours Expended to Date/Estimated Number of Direct Labor Hours to Completion
As of July 1, 1992

JOB ASSIGNMENT [PE Level]	P	AE	SG	ASE(HS) Exp./Est VII	SS(OA) Exp./Est V	JS(OE) Exp./Est II	D Exp./Est IV	AA Exp./Est II	JS Exp./Est II	AT Exp./Est V	WP Exp./Est II	TOTAL NO. OF DIRECT LABOR HOURS Exp./Est
	Exp./Est IX	Exp./Est IV	Exp./Est V	Exp./Est VII	Exp./Est V	Exp./Est II	Exp./Est IV	Exp./Est II	Exp./Est II	Exp./Est V	Exp./Est II	
Task A	0/ 12	0/ 32	0/ 8	0/ 0	0/ 8	0/ 0	0/ 12	0/ 6	0/ 0	0/ 0	0/ 8	0/ 86
Task 1	0/ 20	0/ 48	0/ 4	0/ 0	0/ 0	0/ 0	0/ 0	0/ 6	0/ 0	0/ 0	0/ 0	0/ 78
Task 2	0/ 6	0/ 56	0/ 16	0/ 8	0/ 24	0/ 0	0/ 16	0/ 6	0/ 40	0/ 4	0/ 32	0/ 208
Task 3	0/ 8	0/ 24	0/ 200	0/ 8	0/ 40	0/ 200	0/ 0	0/ 6	0/ 0	0/ 0	0/ 4	0/ 490
Task 4	0/ 10	0/ 48	0/ 80	0/ 0	0/ 48	0/ 16	0/ 20	0/ 12	0/ 0	0/ 6	0/ 24	0/ 264

Total Hours 0/ 56 0/ 208 0/ 308 0/ 16 0/ 120 0/ 216 0/ 48 0/ 36 0/ 40 0/ 10 0/ 68 0/ 1126

Labor Classification Key:

Principal Engineer P
Assistant Engineer AE
Senior Geologist SG
QA/QC Officer QA
Senior Scientist SS
Exp./Est = Expanded/Estimated

H & S Officer H
Admin. Asst. AA
Drafter D
Assoc. Tech. AT
Junior Scientist JS

Geologist HS
Word Processor WP
Associate Engineer ASE
Assistant Scientist AS

GE
WP
ASE
AS

LABOR HOURS AND COSTS
OFFICE HOURS/COSTS

NSPE LEVEL	AVERAGE REIMBURSEMENT RATE	TASK A SCOPING PLAN	TASK 1 SCOPING	TASK 2 WORK PLAN DEVELOPMENT	TASK 3 SITE CHARAC.	TASK 4 REPORT PREPARATION	TOTAL
IX	43.52	12	16	6	8	10	52
VII	35.45	0	0	8	8	0	16
V	23.99	16	4	44	40	134	238
IV	20.26	44	40	72	24	68	248
II	15.97	14	6	78	26	52	176
TOTAL		86	66	208	106	264	730

DIRECT SALARY COSTS: 16375.06

INDIRECT SALARY COSTS: 22279.91

SUBTOTAL: 38654.97

FIXED FEE: 3865.50

TRAVEL COSTS: 0.00

DIRECT NON-SALARY COSTS: 1120.00

TOTAL: 43640.46

LABOR HOURS AND COSTS
FIELD HOURS/COSTS

NSPE LEVEL	AVERAGE REIMBURSEMENT RATE	TASK A SCOPING PLAN	TASK 1 SCOPING	TASK 2 WORK PLAN DEVELOPMENT	TASK 3 SITE CHARAC.	TASK 4 REPORT PREPARATION	TOTAL
IX	43.52	0	4	0	0	0	4
VII	35.45	0	0	0	0	0	0
V	23.99	0	0	0	200	0	200
IV	20.26	0	8	0	0	0	8
II	15.97	0	0	0	184	0	184
TOTAL		0	12	0	384	0	396

DIRECT SALARY COSTS:

8072.64

INDIRECT SALARY COSTS:

10983.63

SUBTOTAL:

19056.27

FIXED FEE:

1905.63

TRAVEL COSTS:

1503

DIRECT NON-SALARY COSTS:

3653

TOTAL:

26117.90

LABOR HOURS AND COSTS
TOTAL HOURS/COSTS

NSPE LEVEL	AVERAGE REIMBURSEMENT RATE	TASK A SCOPING PLAN	TASK 1 SCOPING	TASK 2 WORK PLAN DEVELOPMENT	TASK 3 SITE CHARAC.	TASK 4 REPORT PREPARATION	TOTAL
IX	43.52	12	20	6	8	10	56
VII	35.45	0	0	8	8	0	16
V	23.99	16	4	44	240	134	438
IV	20.26	44	48	72	24	68	256
II	15.97	14	6	78	210	52	360
TOTAL		86	78	208	490	264	1126

DIRECT SALARY COSTS: 24447.7

INDIRECT SALARY COSTS: 33268.43

SUBTOTAL: 57716.13

FIXED FEE: 5771.61

TRAVEL COSTS: 1503.00

DIRECT NON-SALARY COSTS: 4773.00

TOTAL: 69763.74

**MBE/WBE
UTILIZATION PLAN
GARDEN CITY PARK INDUSTRIAL AREA
CONTRACT NO. D002708-8.1**

**Areas to be subcontracted
to MBE/WBE firms**

1. Laboratory Analytical Services
2. Data Validation Services

Total MBE Utilization Goal

18%

Total WBE Utilization Goal

3%

% Utilization based upon:

**Subcontract Value X 100
Total Contract Value**

Total	<u>Subcontract Value</u>	<u>% MBE/WBE Utilization</u>
	\$32,025.00	18%
	\$4,724.00	3%

MBE/WBE

Subcontractor Name

Energy and Environmental Engineering

MBE

Nancy Potak

WBE