

FOCUSED REMEDIAL INVESTIGATION WORK PLAN

**PRECISION CONCEPTS
26 PRECISION DRIVE
SHIRLEY, NEW YORK 11967**
9/98
NYSDEC IHWDS I.D. No. 1-52-158

Prepared For:

**NEW YORK STATE
DEPARTMENT OF ENVIRONMENTAL CONSERVATION
50 WOLF ROAD
ALBANY, NEW YORK 12233-7010**

SEPTEMBER 1998

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September 25, 1998

New York State
Department of Environmental Conservation
Environmental Remediation Division
50 Wolf Road
Albany, New York 12233-7010

Attn: Mr. Michael MacCabe

Re: **Focused Remedial Investigation Work Plan**
26 Precision Drive
Shirley, New York 11967
IHWDS I.D. No. 1-52-158

Dear Mr. MacCabe:

Enclosed please find two (2) original copies of the report entitled Focused Remedial Investigation Work Plan for the above referenced site. The work plan has been revised to address the comments made in your July 3, 1998 correspondence, as well as based upon a phone conversation between Mr. Barry Cohen, Mr. Eugene Kempey, Mr. Tom Smyth and yourself on July 22, 1998.

Should you have any questions, or require additional information, please do not hesitate to contact our office.

Very truly yours,

Matthew Boeckel
Senior Hydrogeologist

MB:sh
Encs.

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1.0 INTRODUCTION

1.1 Overview

This Focused Remedial Investigation Work Plan has been prepared by Kempey Engineering and General Consolidated Industries, Inc. (GCI), for the property located at 26 Precision Drive, Shirley, New York, identified on the tax map as Section 584, Block 1, Lot 4.034. Please refer to Figure 1 - Site Location Map.

The subject site is located at 26 Precision Drive, which is approximately 1,343 feet east of William Floyd Parkway, Town of Brookhaven, Suffolk County, Long Island, New York. The subject property is located in a moderately developed commercial neighborhood. The site is bordered on the north by the Long Island Expressway, to the south and west of the site are commercial buildings and to the east is vacant undeveloped land. Brookhaven National Laboratory (BNL), which has been documented as a source of groundwater contamination, is located less than one-eighth (1/8) of a mile to the north (upgradient) of the subject property.

The subject property was vacant undeveloped land prior the construction of the current subject building in 1985. The property has been occupied for industrial and warehouse use since originally constructed. The site was originally occupied by Precision Concepts. The operations conducted at Precision Concepts was the manufacturer of metal fixtures for use by the electronics industry. Precision Concepts operated its business from 1985 to 1993. The site is currently occupied by Luitpold Pharmaceutical, which is a distributor of pharmaceutical products. The site is utilized for general office and warehouse purposes as well as some small scale bench testing which entails the use of hazardous materials.

In May 1988, the Suffolk County Department of Health Services (SCDHS) sampled a leaching pool located on the east side of the subject building. The analytical results indicated that 1,1,1-trichloroethane (TCA) was present in the sample at a concentration of 1,200 parts per billion (ppb). No remedial action was undertaken by the SCDHS at this time. In addition, the SCDHS re-sampled the leaching pool in May 1990 and found no organic contamination.

Brookhaven National Laboratory (BNL) is a known source of groundwater contamination and is located less than one-eighth (1/8) of a mile upgradient (north) of the subject property. BNL is currently listed on the United States Environmental Protection Agency (US EPA) National Priority List (NPL) and the Comprehensive Environmental Response, Compensation and Liability Information System (CERCLIS) and CORRACTS. The BNL site is a 5,265 acre, federally owned research facility operated by the Department of Energy, consisting of an active lab and

waste disposal facility, with inactive and active landfills, "chemical holes", a sewage treatment plant and a former ash fill. At the hazardous waste management facility (HWMF), spills of VOCs and other compounds have contaminated the groundwater. In 1990, BNL discovered that traces of 1,1,1-trichloroethane (TCA) and dichloroethane (DCA) were detected in a groundwater monitoring well located along the southern boundary of the site. The most recent data regarding BNL indicates that there are seven (7) volatile organic compound (VOC) contamination plumes emanating from the site.

Based upon the presence of the contamination detected in the southern BNL groundwater monitoring well, the SCDHS performed a sampling survey of approximately ninety (90) homes located south of the expressway and south of the subject site where private drinking water wells were sampled for trace organics. Of the ninety (90) private wells tested, five (5) wells were found to be contaminated with TCA and DCA. From May to October of 1990, The SCDHS Bureau of Groundwater Resources installed twenty (20) groundwater monitoring wells in order to determine groundwater flow and origin of the contamination. The testing of wells located along the northern side of the Long Island Expressway (L.I.E) south service road (adjacent/north of the subject site) indicated low levels of contamination (<15 ppb) at 30 to 110 feet below the water table. Testing of wells located along Precision Drive indicated levels of TCA contamination (3-9300 ppb) at 10 to 40 feet below the water table. The SCDHS estimated through additional monitoring wells that there is a plume of contamination approximately 300 feet wide by 3100 feet long. The SCDHS nominated the subject property to be listed as a NYS DEC Inactive Hazardous Waste Disposal Site (IHWD).

The purpose of the Focused Remedial Investigation Work Plan is to determine potential on-site sources of contamination as well as the extent of any soil contamination present at the site.

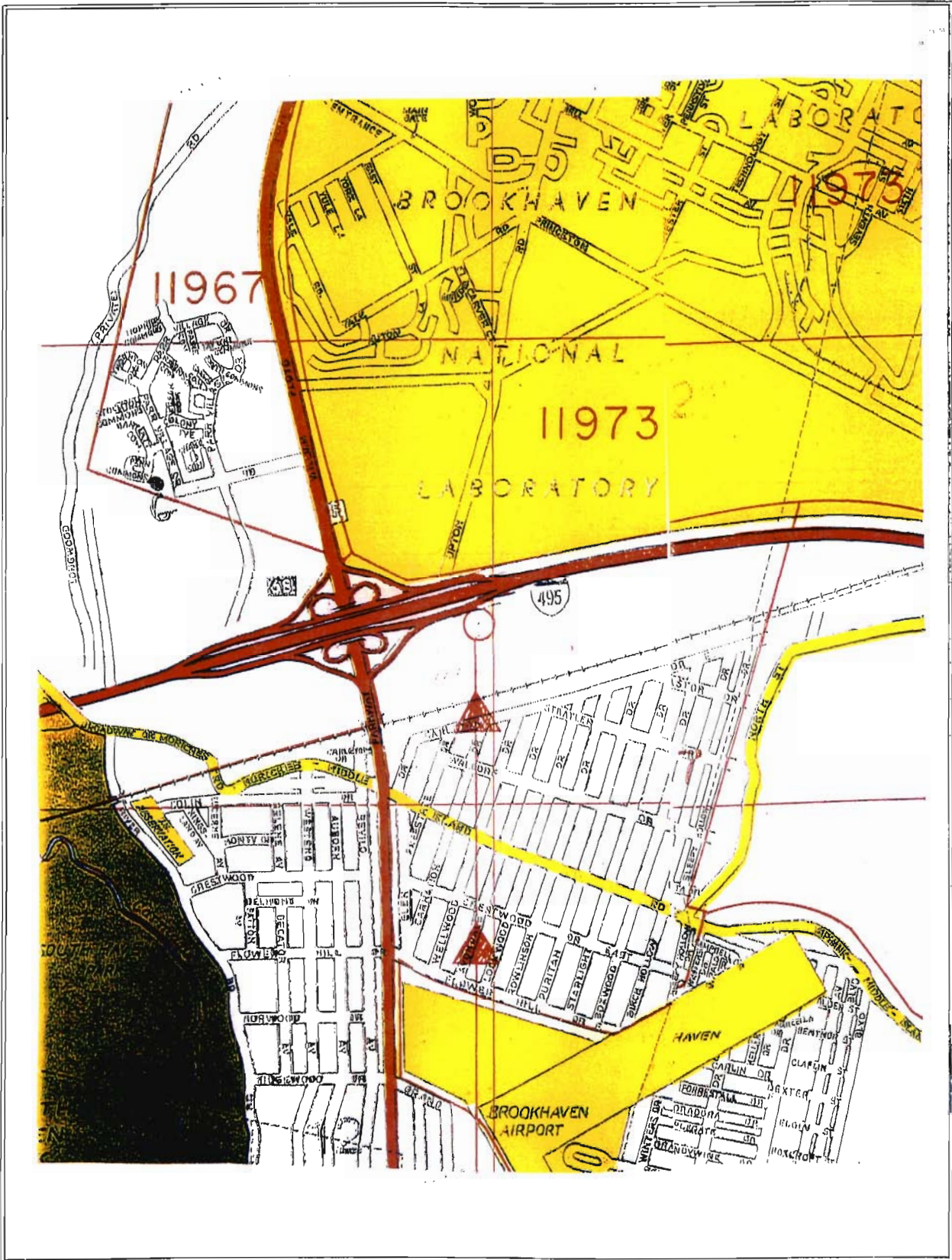


FIGURE 1

SITE LOCATION MAP

Precision Concepts
 26 Precision Drive
 Shirley, New York

1.2 Work Plan Approach

The objectives of this Focused Remedial Investigation Work Plan are to further characterize the nature and extent of possible soil contamination at the site and to obtain data necessary to evaluate remedial alternatives, if necessary, for the site. A site investigation will be conducted and will include the collection of field data as well as laboratory analytical data to evaluate the extent and nature of contaminants in the soil, to identify potential contaminant sources and migration pathways, and to support a remedial alternative or Interim Remedial Measure (IRM), if required.

Based upon the results of the Remedial Investigation, the NYSDEC may require characterization of the groundwater. A groundwater sampling plan will include representative samples of groundwater being collected at discrete intervals in the vicinity of contamination sources. In addition a series of groundwater monitoring wells will be installed across the property in a series of perpendicular transects (east to west) with respect to the groundwater flow direction. This method of sampling will allow for characterization of the groundwater throughout the site as well as with respect to potential on-site sources of contamination.

This work plan presents Kempey Engineering and GCI's proposed technical scope of work for the Remedial Investigation to be conducted at the subject property.

2.0 ENVIRONMENTAL SETTING

2.1 Hydrogeologic Setting

The subject site is located in the Atlantic Coastal Plain physiographic province which is characterized by low hills of unconsolidated sands, gravel and silt. According to Franke (1972), regionally, the subsurface deposits consist of the Upper Glacial deposits that are characterized by southward sloping deposits of sand, gravel and silt. The Upper Glacial deposits have a maximum thickness of 600 feet. They are underlain by the Magothy, Raritan and Lloyd Formations. The Gardiners clay and the Jameco gravel separate the Upper Glacial deposits and the Magothy Formation along the south west portion of Long Island.

The subject site is in the Upper Glacial aquifer. The Upper Glacial consists of Pleistocene moraine and outwash deposits. The water table is located primarily in the glacial aquifer which underlies a majority of Long Island. In general, the upper glacial is thickest near the north shore and eastern Suffolk County. Hydraulic conductivity is greatest along the southern part of the island, where the outwash deposits consist mainly of well draining coarse sand and gravel.

According to a soil survey of Suffolk County conducted by the United States Department of Agriculture, the lithology at the subject site has been classified as Riverhead Sandy-Loam. The Riverhead series typically consists of well-drained, moderately coarse textured soils. The Riverhead series is very permeable and allows for rapid groundwater flow.

Fresh groundwater originates in the form of precipitation, which on Long Island, averages approximately 44 inches per year. This precipitation will infiltrate into the subsurface and act as the sole recharge mechanism for replenishing water in the upper glacial aquifer system. Under the present conditions of infiltration, groundwater is recharging at a rate of approximately 350 billion gallons of water per year. The Upper Glacial has been designated a sole source aquifer by the US EPA, and as such is protected by US EPA mandated remediation legislation.

According to groundwater contour maps provided by the SCDHS, groundwater is approximately forty (40) to forty-five (45) feet below ground surface at the subject site. Groundwater flows south under a regional hydraulic gradient of 0.75 ft/foot. The groundwater in the vicinity of the subject site are identified as GA. GA waters are classified as "fresh groundwater". The best usage of Class GA waters is as a source of potable water supply, as defined in Section 701.15 of the New York State Department of Environmental Conservation's (NYS DEC) "Water Quality Regulations - Surface Water and Groundwater Classifications and Standards".

2.2 Surface Water and Drainage

The site is nearly level throughout. The storm water runoff at the site either directly infiltrates into the subsurface soil or is directed to a series of on-site storm water collection drywells. There is no municipal sewer service available in the vicinity of the subject property.

There are no ponds, lakes, streams or other water bodies on the subject property or in the vicinity. The subject site is located in the middle of Long Island, and as such there are no major bodies of water in a close proximity. There are no NYSDEC wetlands or other protected lands located at the subject site or in the immediate vicinity.

3.0 SITE BACKGROUND AND SETTING

3.1 Current Conditions

The subject site is an irregular shaped parcel, with approximately 1,355 feet of frontage along the north side of Precision Drive. The property is approximately 900 feet deep. The total subject parcel is approximately 636,000 square feet or 15.9 acres. The building itself occupies approximately 6% of the subject site. The majority of the site is undeveloped and is covered with natural vegetation, the remainder of the property is developed as paved parking areas and drive ways for the facility.

The Town of Brookhaven Building Department records indicated that the subject building was erected circa 1985. The subject building is constructed of concrete block with brick veneer. The building rests on a poured concrete slab foundation. Windows are comprised primarily of bronze plate glass in aluminum frames. The building space consists of office areas along the north end, reception/waiting area, conference room, lunch room, storage rooms, a research and development lab, office areas, bathrooms (office and warehouse), loading area and three warehouse/storage areas along the south end. The office section and primary entrance to the building is accessible from the north and west sides. Four (4) overhead bay doors access the warehouse/storage areas from the south side. All office areas are finished with carpeted floors, sheetrock walls and suspended acoustic ceilings. All manufacturing/storage areas remain unfinished with poured concrete floors, concrete walls and steel corrugated ceilings/roof deck. The heat for the site is provided to the warehouse areas of the building via gas and electric fired, ceiling mounted forced hot air systems. All other areas including offices and research and development areas are heated via a gas fired, WEIL McLAIN boiler/circulating hot water baseboard system. The primary roof of the building was observed to be a flat/terraced type.

The site utilizes an on-site sanitary system, which is located on the west side of the subject building. The septic system, consists of a primary septic tank and three overflow pools. There are seven (7) storm water collection drywells located throughout the paved parking areas of the subject site. There are two (2) leaching pools located on the east side of the subject building. It was reported that the eastern leaching pools formerly received discharge of non-contact cooling water from the interior operations conducted by Precision Concepts. There are three (3) buried roof drainage drywells located on the north side of the subject building, as well as two (2) roof drainage drywells on the south side of the subject building. Please refer to Figure 2 - Site Plan for the locations of the site features. In addition, photographs of the subject property have been included as Appendix A with this report.

LEGEND

- PROPERTY LINE 
- BUILDING BORDER 
- CONCRETE WALL 
- LEACHING POOL SAMPLE 
- LOADING BAY DRAIN SAMPLE 
- ROOF DRAIN SAMPLE 
- CESSPOOL 

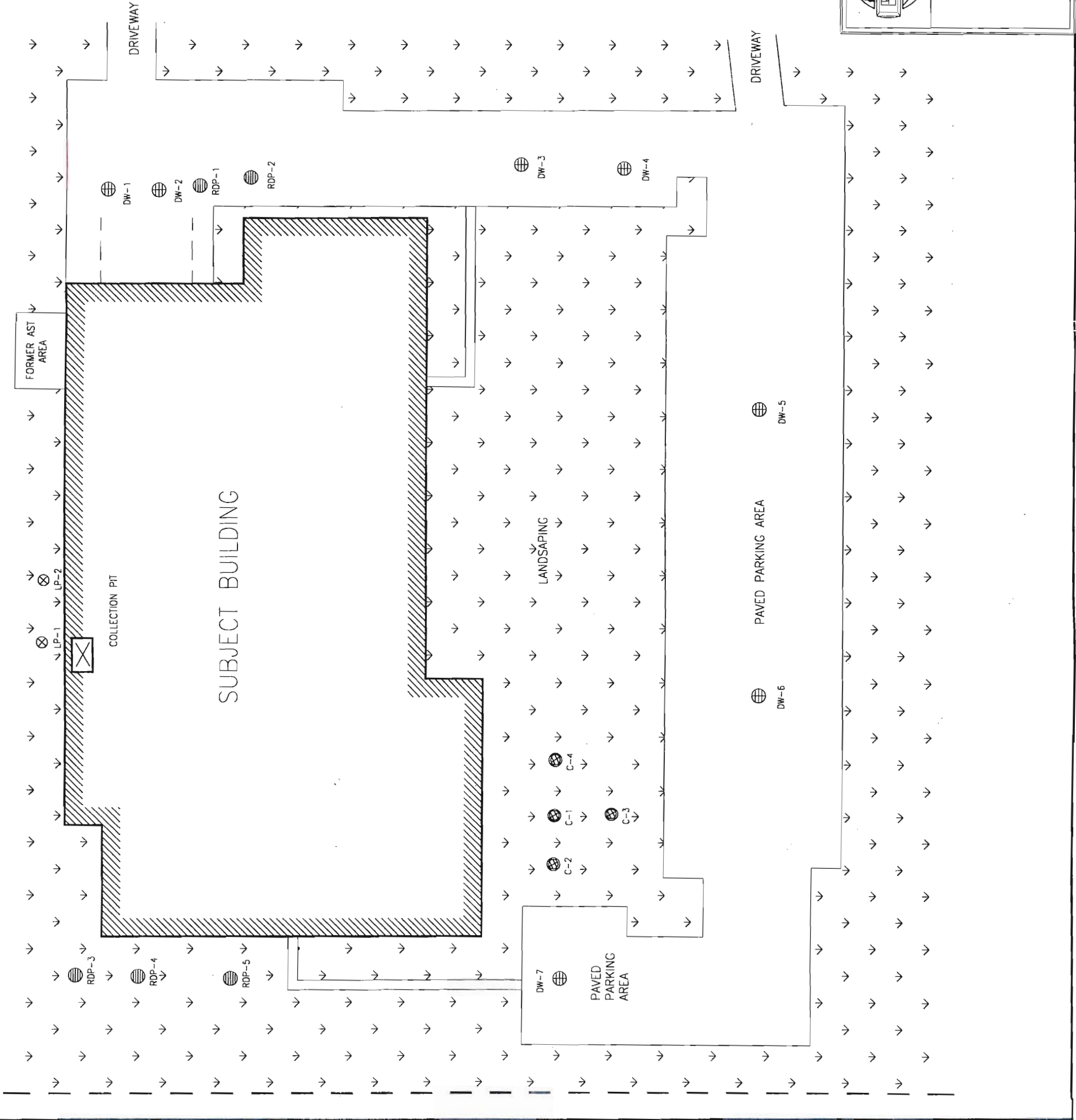
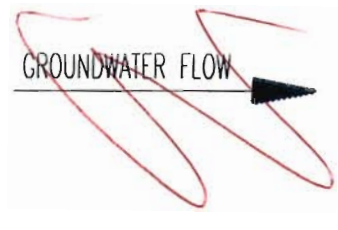


SITE LOCATION



GENERAL CONSOLIDATED INDUSTRIES INC.
 126 BAYLBS ROAD, MELVILLE, NEW YORK 11747
 1-800-842-5075
Environmental & Engineering Consultants

TITLE: FIGURE 2 - SITE PLAN	
LOCATION:	26 PRECISION DRIVE SHIRLEY, NEW YORK
SECTION:	584.00 BLOCK: 01.00 LOT: 04.034
CLIENT:	KEMPEY ENGINEERING
DRAWN BY:	PUJH
CHECKED BY:	TS
DATE:	5 / 21 / 98
PROJECT No.:	960102
DRAWING No.:	960102SP
SCALE:	1" = 55'
FIG. No.:	1 OF 1



There are currently no storage tanks utilized at the subject site. There were records that the previous operations conducted by Precision Concepts entailed the use of storage tanks. The SCDHS records indicated that two (2) storage tanks and one (1) drum storage area were removed from the site. The specific information for the tanks and drum area is as follows:

Tank 1 - 6,000 GAL aboveground, outdoor, industrial waste - Removed 7/93

Tank 2 - 400 GAL aboveground, outdoor, organic solvent - Removed 7/93

Tank 3 - 1,875 GAL aboveground, indoor, drum storage area - Removed 7/93

3.2 Current Site Operations

The site is currently occupied by Luitpold Pharmaceutical, which is a distributor of pharmaceutical products. The site is utilized for warehouse and office purposes. There is only minor use of chemicals at the site which is well documented and inventoried. The current operations conducted at the facility do not pose an apparent environmental threat to the public health or the subject property.

3.3 Site History

According to the Town of Brookhaven Building Department records the site is zoned for commercial / industrial uses. The Town of Brookhaven Building Department records indicated that the site was originally developed circa 1985. The site was first occupied by Precision Concepts which operated at the site from 1985 until 1993. Precision Concepts was a manufacturer of metal machine parts for use in the electronics industry. Based upon the presence of TCA contamination in a groundwater monitoring well located on the southern boundary of the BNL site, the SCDHS performed a groundwater investigation in the vicinity of the subject property and BNL in 1990. Based upon the results of the groundwater investigation, the SCDHS estimated that there is a plume of contamination approximately 300 feet wide by 3100 feet long. The SCDHS nominated the subject property to be listed as a NYS DEC IHWD site.

4.0 PREVIOUS ENVIRONMENTAL INVESTIGATIONS

Information regarding the environmental history of the site was obtained from the Suffolk County Department of Health Services (SCDHS) Groundwater Investigation Report dated October 1990 as well as a combination Phase I Environmental Site Assessment and Phase II Subsurface Investigation report dated February 18, 1997, prepared by General Consolidated Industries, Inc. A summary of both environmental reports is provided below. In addition, a copy of each report is included as Appendix B with this report.

4.1 Previous Environmental Assessments

SCDHS - Groundwater Investigation Report

In March 1990, BNL informed the SCDHS that traces of 1,1,1-trichloroethane (TCA) and dichloroethane (DCA) were detected in a groundwater monitoring well located along their southern boundary of the subject site. In response to this the SCDHS initiated sampling of ninety (90) private residential wells located downgradient of the BNL site. The samples were analyzed by the SCDHS for volatile organic compounds (VOCs). The analytical results indicated that five (5) of the wells were contaminated with (TCA) and 1,1-dichloroethene (DCE) at concentrations which exceeded the NYS DEC groundwater standards.

From May to October 1990, the SCDHS installed a total of twenty (20) groundwater monitoring wells as part of the groundwater investigation. The wells were completed to an average depth of 120 feet below grade. The wells were located in east-west transects which run approximately perpendicular to the groundwater flow direction in the vicinity of the subject site. The direction of the groundwater in the vicinity of the study area was determined to be in a due south direction. Representative groundwater samples were obtained from each of the wells, the groundwater samples were collected at ten (10) foot intervals below the regional groundwater table. No groundwater monitoring wells were installed on the Precision Concepts site. Concentrations of TCA ranging from 130 to 9,400 parts per billion (ppb) were detected in wells 11 and 13, which are located along Precision Drive. It was estimated that there is a contamination plume measuring approximately 300 feet wide by 3,100 feet long downgradient of the subject property. The report also indicated that BNL is a contributory source of TCA contamination although this contamination is believed to be in a much deeper portion of the aquifer. Please refer to Figure 3 - SCDHS Groundwater Investigation Results for the location of the monitoring wells as well as the analytical results obtained during the SCDHS investigation.

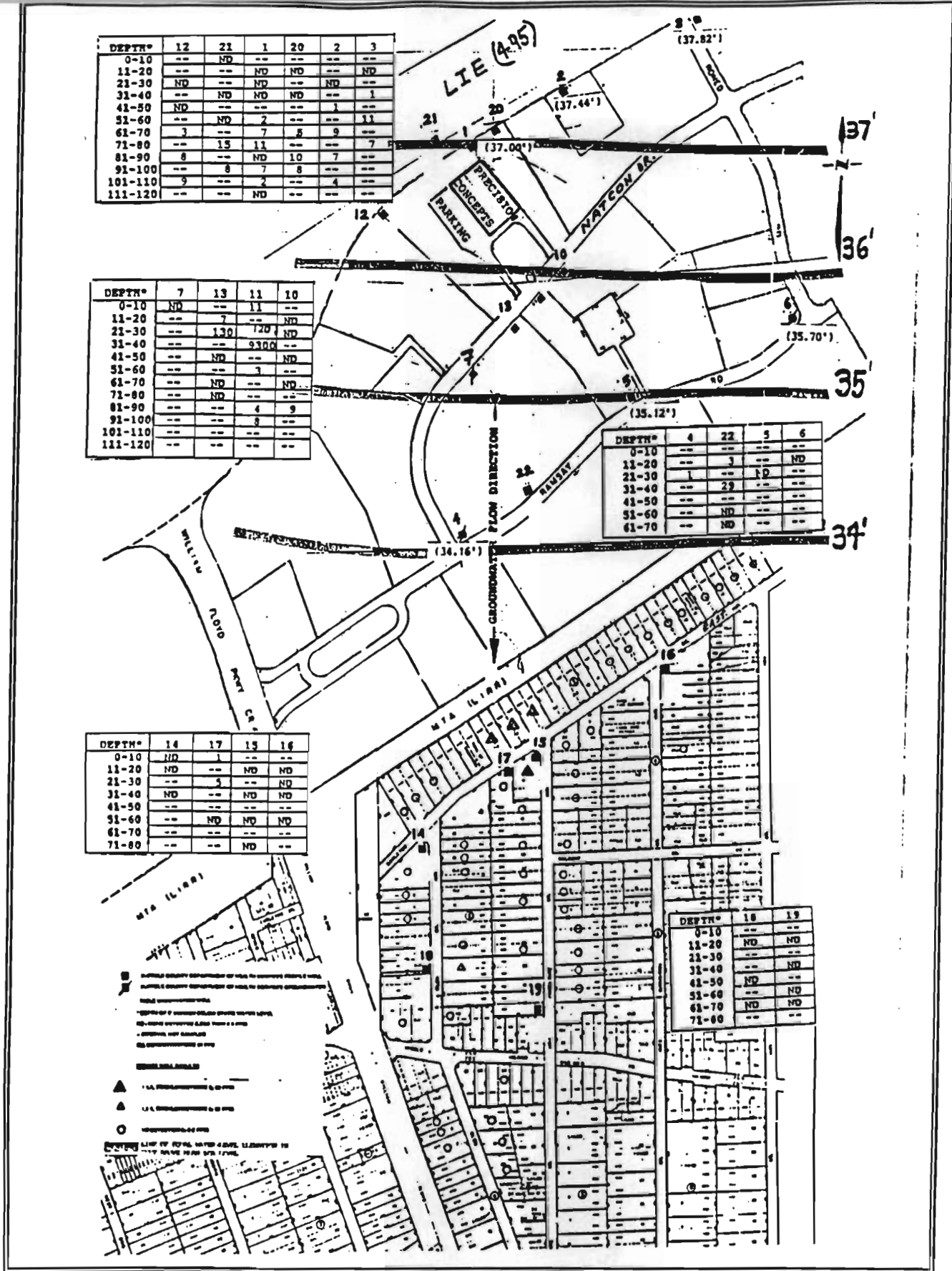


FIGURE 3

SCDHS GROUNDWATER INVESTIGATION RESULTS

Precision Concepts
 26 Precision Drive
 Shirley, New York

GCI, Inc. - Phase I Environmental Site Easement & Phase II Subsurface Investigation

Please note that GCI, originally became involved with the subject site during the preparation of a Phase I Environmental Site Assessment (ESA) report dated August 14, 1995. Subsequent to the completion of the original Phase I ESA, there were several Phase II Investigation and remedial activities conducted at the site. In January 1997, GCI, Inc., was retained to update the original phase I ESA, as well as to provide a summary of all subsurface and remedial work that had been conducted at the site. Therefore, a combination Phase I ESA and Phase II Subsurface Investigation report dated February 18, 1997 was completed by GCI, Inc. The following is a summary of the findings of the report.

The results of the updated Phase I ESA indicated that there were no potential on-site concerns that were posing an apparent environmental threat to the general public or the subject property. The Phase I ESA indicated that based upon a review of the US EPA and NYS DEC database listings, that Brookhaven National Laboratory (BNL) is located less than one-eighth (1/8) of a mile upgradient (north) of the subject property. The records also indicated that BNL is listed on several US EPA databases, including the National Priority List (NPL), the Comprehensive Environmental Response, Compensation and Liability Information System (CERCLIS), the Resource Conservation and Recovery Information System Treatment Storage and Disposal (RCRIS-TSD) facilities, and CORRACTS. Based upon this information there was a concern that there may be contamination migrating onto the subject property via a groundwater plume emanating from the BNL site.

The Phase II activities conducted at the site entailed a soil boring program, a drywell and roof drain sampling program, as well as the remediation of a collection pit located on the east side of the building. The above noted Phase II activities and remedial measures were conducted at the site on several different occasions.

A Subsurface Investigation was initiated at the subject site on May 16, 1996, and January 24 & 31, 1997. The investigation consisted of installing a total of six (6) soil borings throughout the subject property. The soil borings were located in upgradient and downgradient positions with respect to possible sources of contamination. Soil and groundwater samples were obtained from each of the borings. Soil samples were collected from directly above the water-table in each of the soil borings. Groundwater samples were collected at the soil / water interface level which was encountered at a depth of approximately forty-four (44) feet below land surface. The collected soil samples were not submitted for laboratory analysis, however an inspection of the

collected samples indicated that there was no evidence of contamination observed in any of the samples, such as staining, odor, etc. A total of five (5) groundwater samples were submitted for laboratory analysis of volatile organic compounds (VOCs) utilizing EPA method 624 as well as for the 8 RCRA metals. The analytical results indicated that there were no VOCs detected in any of the samples above their respective laboratory analytical method detection limit. The metals analysis revealed that there were elevated levels of metals present in both upgradient and downgradient samples. It is believed that the elevated levels of metals are not due to operations conducted at the subject site but rather from a contamination plume emanating from BNL.

There are two (2) storm water drywells located in the rear loading dock area (DW-1 and DW-2), in addition there are ^{two} roof drains located to the west of the loading dock area (RDP-1 and RDP-2). Representative samples were obtained from DW-1 and DW-2 on May 17, 1996, July 31, 1996 and January 28, 1997. The analytical results for all there (3) sampling episodes indicated that there were no VOCs detected above their respective laboratory analytical method detection limit. The metals analysis for DW-1 indicated that copper was detected at elevated concentrations on May 17, 1996 and January 28, 1997, in addition chrome was detected at an elevated level in DW-2 on January 28, 1997. There was no remedial work conducted on the drywells. There were no VOCs detected above their respective method detection limit in the samples from DW-3 and DW-4, in addition there were no elevated levels of metals present. The soil samples from the drywells and roof drains were obtained from the invert level at the bottom of each pool. There were no soil borings or probes conducted in either the drywells or roof drains. Although, please note that soil borings SB-5 and SB-6 were located directly downgradient of the two (2) roof drains (DW-3 and DW-4) on the south side of the subject building.

There was a concrete collection pit located on the east side ^{inside} of the subject building. This collection pit was formerly utilized by Precision Concepts to temporarily store waste water generated during the tumbling room operations. The Suffolk County Department of Health Services (SCDHS) inspected the pit during a routine site investigation. The SCDHS observed that the corner of the collection pit was breached, therefore a representative soil sample was collected from below the breached area in the collection pit. The analytical results indicated that there were elevated levels of metals present in the soil below the collection pit. Based upon these results the SCDHS requested that the soil below the collection pit be remediated and that the collection pit be sealed at grade with concrete. On July 17, 1996, approximately two (2) yards of soil were removed from below the collection pit. A representative end-point soil sample was collected from the pit. The analytical results indicated that there were no levels of metals present which exceeded the respective SCDHS regulatory levels. The SCDHS indicated that no further work was required and that the collection pit can be sealed. The collection pit was therefore filled with clean sand and capped at grade with a six-inch thick layer of concrete.

4.2 Additional Data Needs

Based on a review of the previous sampling results and historical records for the site, additional data needs have been identified to fully characterize the nature and extent of contamination at the site and to evaluate potential remedial action for the site.

A thorough soil investigation needs to be conducted at the subject site in order to address all potential on-site sources of contamination.

5.0 WORK PLAN RATIONALE

5.1 Data Quality Objectives

The Data Quality Objectives (DQOs) for the Focused Remedial Investigation Work Plan will be applicable to all data-gathering activities at the site. DQOs will be incorporated into sampling, analysis, and quality assurance tasks associated with the work plan.

The primary data users for this project will be Kempey Engineering and GCI, Inc. The secondary data user will be Mr. Mike Veraldi, the Quality Assurance Officer (QAO) for the project. Mr. Veraldi will be responsible for reviewing all laboratory data packages to ensure that all laboratory protocols have been complied with and that the results are genuine. A copy of Mr. Veraldi's resume has been included with this report as Appendix C. There are no other data users anticipated at this time.

Data to be collected during the Focused Remedial Investigation is intended to characterize the nature and extent of soil contamination at the site. The data will allow for the evaluation and possible implementation of potential remedial alternatives or interim remedial measures (IRM).

For this project, it is anticipated that field screening will be performed during any soil and leaching pool sediment sampling. Field screening includes monitoring for volatile organic compounds (VOCs) using a HNU Photo-ionization detector (PID), and visual observations of soil characteristics. Representative samples will be analyzed by a NYS DOH ELAP CLP certified laboratory for TAL Metals and TCL Volatiles. The data will be presented in either a NYSDEC ASP Category B or USEPA CLP deliverables package. The laboratory selected for the analysis of the samples will be ANA lab Inc., located in Edison, New Jersey. The CLP certification number for ANA lab Inc. is 11376.

The data uses will be for site characterization, possible risk assessment, evaluation of remedial alternatives or interim remedial measures (IRM), and engineering design.

5.2 Work Plan Approach

The Work Plan Approach is to present and evaluate previous site data, as appropriate for the respective DQOs. The existing information will be incorporated into the tasks necessary for the completion of additional data gathering necessary to evaluate potential remedial alternatives for the site soil. Data previously collected will be supplemented by additional sampling and analysis. Based on the findings of the investigation, remedial alternatives and IRMs may be evaluated and the most feasible alternative(s) will be identified. IRMs are intended to remediate materials which may be a source of contamination. If contamination is detected in the leaching pool sediment or other soil samples during the Remedial Investigation, an IRM work plan may be formulated and submitted to the DEC regarding the removal of sediment from the leaching pools. The IRM for the site may include the removal of contaminated leaching pool sediments and/or other potential sources of contamination.

Based upon the results of the Remedial Investigation, the NYSDEC may require characterization of the groundwater. A groundwater sampling plan may include representative samples of groundwater being collected at discrete intervals in the vicinity of contamination sources. In addition a series of groundwater monitoring wells may be installed across the property in perpendicular transects (east to west) with respect to the groundwater flow direction. This method of sampling will allow for characterization of the groundwater throughout the site as well as with respect to potential on-site sources of contamination.

5.3 Applicable or Relevant and Appropriate Requirements

The following applicable or relevant and appropriate requirements for the site have been preliminarily identified:

- The NYS DEC Recommended Soil Cleanup Objectives (TAGM #HWR-94-4046) will be used to compare soil and sediment samples.
- The NYS DEC Water Quality Regulations Surface Water and Groundwater Classifications and Standards - Title 6, Chapter X Parts 700-706.

6.0 FIELD SAMPLING PLAN

To address the additional data needs as discussed in Section 4.2, Kempey Engineering and GCI, Inc., propose to perform the following tasks. All soil samples will be obtained utilizing a GeoProbe drill rig. All collected soil samples will be visually inspected in an attempt to identify signs of potential contamination. The soil samples will also be field screened with for the presence of volatile organic compounds (VOCs). The proposed sampling locations associated with the tasks are shown on Figure 4 - Sampling Location Map.

6.1 Standard Operating Procedure - Field Screening Activities

The following Standard Operating Procedure (SOP) will be followed during all soil screening activities conducted at the site. The purpose of the SOP is to ensure that uniform conditions prevail during the field screening activities. The field screening will be conducted utilizing an HNU Model DL-101 Photo-ionization Detector (PID). The following tasks will comprise the SOP to be utilized during the Focused Remedial Investigation:

- The HNU Model DL-101 Photo-ionization Detector (PID) will be calibrated prior to each day's use. The PID will be calibrated using 100 parts per million (ppm) isobutylene gas. In addition, certain internal components will be cleaned routinely, such as the lamp and the probe node.
- A representative portion will be retained from each of the soil borings collected. The representative soil sample will then be stored in an air-tight medium. The sample will then be agitated for a period of thirty (30) seconds, in order to allow for volatilization of any VOCs present.
- A section of teflon tubing will be connected to the end of the PID probe node and then inserted into the headspace of the air-tight medium. The teflon tubing will be changed prior to each field screening episode. The PID will remain in the headspace sample until a stable reading has been achieved. The PID results will be recorded and utilized for determining which samples will be submitted for laboratory analysis.

6.2 West Side Sanitary System

The sanitary system for the subject building consists of a primary cesspool (C-1) and three (3) overflow leaching pools (C-2 through C-4) located to the north, west and south of C-1. Please note that in June 1992, the SCDHS approved the pump-out and disposal of approximately 8,000 gallons of liquid from the on-site cesspool. There have been no other remedial activities conducted with regard to the on-site sanitary system.

C-1 (eastern sanitary leaching pool): This is a primary septic tank and is constructed with solid walls and bottom. Based upon the fact that the septic tank is constructed with a solid bottom, no representative soil samples will be collected from this area. However, should further investigation prove that the bottom of the primary septic tank is not solid, then representative samples will be collected in a similar fashion as the remaining pools.

C-2 (northern sanitary leaching pool): Soil sample from the bottom invert level and then representative soil samples will be collected at continuous five (5) foot intervals as described below.

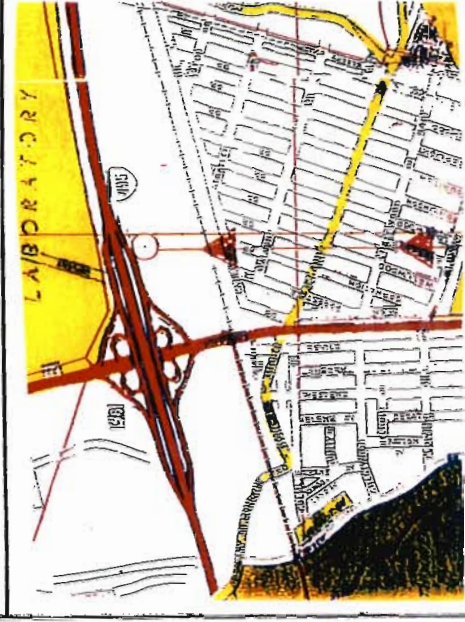
C-3 (western sanitary leaching pool): Soil sample from the bottom invert level and then representative soil samples will be collected at continuous five (5) foot intervals as described below.

C-4 (southern sanitary leaching pool): Soil sample from the bottom invert level and then representative soil samples will be collected at continuous five (5) foot intervals as described below.

All soil borings will be completed to the groundwater interface level. The collected soil samples will be field screened with an HNU photo-ionization detector (PID), as well as visually inspected. On the basis of the field observations and PID screening results, a total of one (1) soil sample will be submitted from each of the pools for laboratory analysis of TCL Volatiles and TAL Metals. The results will be presented in either a NYSDEC ASP Category B or USEPA CLP deliverables package. Please note that should the PID readings and visual inspection prove to be inconclusive as to the presence of contamination, then the soil sample collected from directly above the soil/groundwater interface will be submitted for analysis.

LEGEND

- PROPERTY LINE
- BUILDING BORDER
- CONCRETE WALL
- LEACHING POOL SAMPLE
- LOADING BAY DRAIN SAMPLE
- ROOF DRAIN SAMPLE
- CESSPOOL

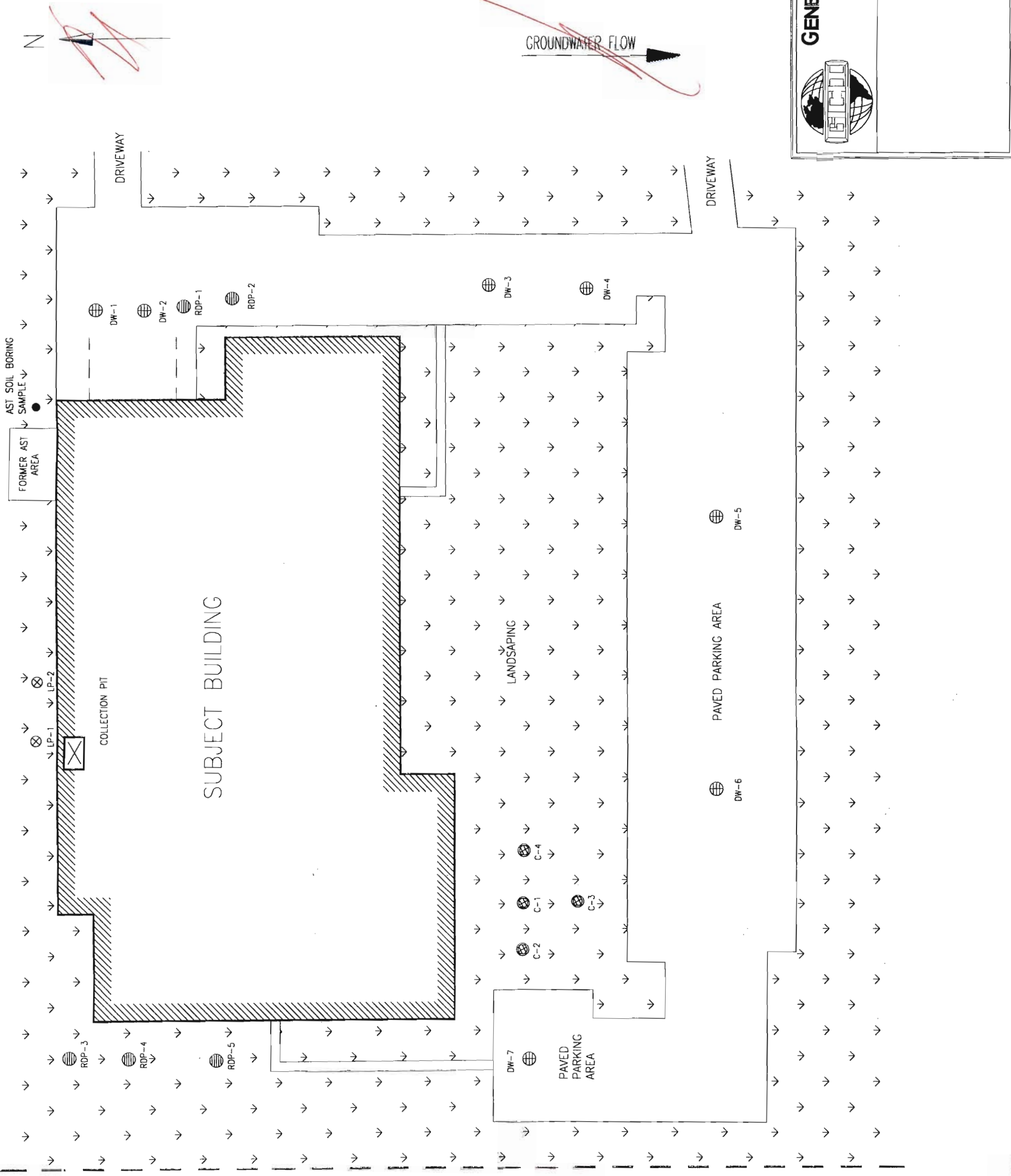


SITE LOCATION

GENERAL CONSOLIDATED INDUSTRIES INC.
 125 BAYLIS ROAD, MELVILLE, NEW YORK 11747
 1-800-842-5073
Environmental & Engineering Consultants



TITLE: FIGURE 4- SAMPLING LOCATION MAP	
LOCATION:	26 PRECISION DRIVE SHIRLEY, NEW YORK
SECTION:	584.00 BLOCK: 01.00 LOT: 04.03A
CLIENT:	KEMPEY ENGINEERING
DRAWN BY:	PJH
CHECKED BY:	TS
DATE:	5 / 21 / 98
PROJECT No.:	960102
DRAWING No.:	960102SP
LAST REVISED BY:	DATE:
SCALE:	1" = 55'
FIG. No.:	1 OF 1



6.3 East Side Leaching Pool System

There are two (2) leaching pools located on the east side of the subject building. The pools had formerly received discharges of non-contact cooling water during the normal operations conducted at the site by Precision Concepts. The pools are currently accessible at grade with steel manhole covers.

LP-1 (northern leaching pool): Soil sample from the bottom invert level and then representative soil samples will be collected at continuous five (5) foot intervals as described below.

LP-2 (southern leaching pool): Soil sample from the bottom invert level and then representative soil samples will be collected at continuous five (5) foot intervals as described below.

All soil borings will be completed to the groundwater interface level. The collected soil samples will be field screened with an HNU photo-ionization detector (PID), as well as visually inspected. On the basis of the field observations and PID screening results, a total of one (1) soil sample will be submitted from each of the pools for laboratory analysis of TCL Volatiles and TAL Metals. The results will be presented in either a NYSDEC ASP Category B or USEPA CLP deliverables package. Please note that should the PID readings and visual inspection prove to be inconclusive as to the presence of contamination, then the soil sample collected from directly above the soil/groundwater interface will be submitted for analysis.

6.4 Roof Drains

The roof drainage system at the subject building consists of three (3) leaching pools on the north side of the subject building in order to collect the storm water from the north side of the roof and there are two (2) leaching pools located on the south side for storm water collection purposes. The SCDHS noticed during a routine inspection of the subject site that there was a "Y" connection in the rear (south) central roof drainage line which appeared to have been open at one time. The two (2) roof drain leaching pools were located below grade. The pools were uncovered and representative soil samples from the bottom invert level were obtained for laboratory analysis of volatile organic compounds (VOCs) using EPA method 8260 as well as for the thirteen (13) heavy metals. The analytical results indicated that there were no elevated levels of either VOCs or metals present in either sample.

RDP-1 (eastern pool): Soil sample from the bottom invert level and then representative soil samples will be collected at continuous five (5) foot intervals as described below.

RDP-2 (western pool): Soil sample from the bottom invert level and then representative soil samples will be collected at continuous five (5) foot intervals as described below.

All soil borings will be completed to the groundwater interface level. The collected soil samples will be field screened with an HNU photo-ionization detector (PID), as well as visually inspected. On the basis of the field observations and PID screening results, a total of one (1) soil sample will be submitted from each of the roof drains for laboratory analysis of TCL Volatiles and TAL Metals. The results will be presented in either a NYSDEC ASP Category B or USEPA CLP deliverables package. Please note that should the PID readings and visual inspection prove to be inconclusive as to the presence of contamination, then the soil sample collected from directly above the soil/groundwater interface will be submitted for analysis.

6.5 Storm Water Drains

There are two (2) storm water drains located in the rear (south) loading dock. The drains are utilized for storm water collection only, they are not connected to any interior piping. Previous samples obtained from the loading dock storm drains have indicated the presence of copper and chromium at elevated levels. There has been no remedial work conducted on the loading dock storm drains.

DW-1 (eastern drain): Soil sample from the bottom invert level and then representative soil samples will be collected at continuous five (5) foot intervals as described below.

DW-2 (western drain): Soil sample from the bottom invert level and then representative soil samples will be collected at continuous five (5) foot intervals as described below.

All soil borings will be completed to the groundwater interface level. The collected soil samples will be field screened with an HNU photo-ionization detector (PID), as well as visually inspected. On the basis of the field observations and PID screening results, a total of one (1) soil sample will be submitted from each of the storm water drains for laboratory analysis of TCL Volatiles and TAL Metals. The results will be presented in either a NYSDEC ASP Category B or USEPA CLP deliverables package. Please note that should the PID readings and visual inspection prove to be inconclusive as to the presence of contamination, then the soil sample collected from directly above the soil/groundwater interface will be submitted for analysis.

6.6 Former Aboveground Storage Tank (AST) Area

There was a former 6,000 gallon AST located near the southeast corner of the subject building. The AST was utilized for storage of waste water contaminated with TCA. This area is secured with a 4-foot high concrete berm area. The AST was decommissioned and removed from the site in 1993. One (1) soil boring will be conducted directly downgradient and as close to this area as possible.

SB-1 (directly south of the AST area): The soil boring will be completed to a final depth of approximately 45 feet below land surface. Soil samples will be collected at ten (10) foot intervals starting at five (5) feet below grade as described below.

The soil boring will be completed to the groundwater interface level. The collected soil samples will be field screened with an HNU photo-ionization detector (PID), as well as visually inspected. On the basis of the field observations and PID screening results, a total of one (1) soil sample will be submitted from the soil boring for laboratory analysis of TCL Volatiles and TAL Metals. The results will be presented in either a NYSDEC ASP Category B or USEPA CLP deliverables package. Please note that should the PID readings and visual inspection prove to be inconclusive as to the presence of contamination, then the soil sample collected from directly above the soil/groundwater interface will be submitted for analysis.

6.7 Quality Assurance Project Plan

6.7.1. Sampling Equipment Decontamination Procedures

All non-disposable downhole equipment (i.e., augers, hand augers, sampling sheaths, etc.) used during the drilling and sampling will be decontaminated prior to use at each location to prevent cross contamination. All non-disposable equipment will be steam cleaned or decontaminated. The decontamination procedures are as follows:

1. Equipment will be scrubbed in a bath of potable water and low-phosphate detergent;
2. Potable water rinse;
3. Rinse with ten percent (10%) nitric acid (one percent (1%) for carbon steel) if metals are to be analyzed;
4. Potable water rinse;
5. A pesticide-grade methanol rinse followed by a pesticide-grade hexane rinse;
6. Deionized water rinse;
7. Air dry.

6.7.2 Chain of Custody Procedures

For each day of sampling, a chain of custody sheet will be completed and submitted to the laboratory. The chain of custody sheet will include the project name, the sampler's signature, the sampling locations, intervals, and analysis parameters requested. The samples will be stored on ice in a cooler. The cooler will be secured using a custody seal to ensure that no tampering has occurred. The laboratory will receive the samples within forty-eight (48) hours of being collected.

6.7.3 QA/QC Samples

QA/QC samples will be obtained during the soil/sediment sampling. During soil/sediment sampling, one (1) equipment blank per day per matrix sampled will be prepared by pouring laboratory-supplied, deionized water through either the sampling bailer or the hand auger and into a set of sample containers. The equipment blank will be tested for the same analyses as the matrices to be sampled that day. If more than one (1) decontamination event occurs in one (1) day, the same person will perform the decontamination to maintain uniformity in the procedure. The equipment blank results will be reviewed to evaluate the potential for field or laboratory contamination and will attest to the quality of the decontamination procedures.

6.8 Sample Analysis

All samples will be submitted to a NYS DOH ELAP CLP-certified laboratory. Laboratory testing and data reporting will be performed by a subcontracted laboratory. The proposed subcontractor laboratory is ANA Lab Inc., located in Edison, New Jersey. The CLP certification number for the laboratory is 11376.

All samples will be analyzed for TCL Volatiles and TAL Metals. The data will be presented in either a NYSDEC ASP Category B or USEPA CLP deliverables package.

6.9 Data Evaluation

Data collected during the Focused Remedial Investigation will be assembled, reviewed, and evaluated to assure satisfaction of the work plan objectives. The data will be presented in either a NYSDEC ASP Category b or USEPA CLP deliverables package. The data will be reviewed by Mr. Mike Veraldi, the Quality Assurance Officer (QAO) for the project. Mr. Veraldi will develop a Data Usability Summary Report (DUSR) to ensure thorough evaluation of the analytical data. The DUSR will be generated as per the requirements of the NYSDEC Guidance for the Development of Data Usability Summary Reports. A copy of the DUSR requirements is included as Appendix D.

The primary objective of the DUSR will be to determine if the data meets the specific project requirements. The data collected will be organized and analyzed to identify the nature and extent of contamination in the site soil/sediment, and to further identify potential on-site sources of contaminants.

The soil quality data will be evaluated and mapped to illustrate the areal and vertical extent of the contaminants detected. The distribution of soil contaminants detected will be considered to evaluate potential sources of contaminants.

Maps and tables of the data from the previous sampling programs and from the Remedial Investigation will be used to assist in the analysis. The results of the data evaluation will be discussed in the Focused Remedial Investigation report.

6.10 Assessment of Potential Remedial Alternative

After existing and newly-acquired data are evaluated, the potential remedial objectives and alternatives will be developed, if appropriate.

6.11 Remedial Investigation Report Outline

After completion of the field investigation, sample analysis, data evaluation, and assessment of potential remedial alternatives, Kempey Engineering and GCI Inc., will prepare a Focused Remedial Investigation / Feasibility Study (RI/FS) report. The report will contain a summary of results from previous sampling events as well as the data and analyses performed as part of this investigation. A Remedial Investigation/ Feasibility Study (RI/FS) report format is presented in Table 1.

TABLE 1

Remedial Investigation / Feasibility Study (RI/FS) Report

Table of Contents

<u>SECTION</u>	<u>DESCRIPTION</u>
	Disclaimer
1.0	Introduction
1.1	Overview
1.2	Site Investigation Approach
1.3	Report Contents
2.0	Site Background and Setting
2.1	Site Location
2.2	Site History
2.3	Current Conditions
3.0	Environmental Setting
3.1	Topography and Drainage
3.2	Population and Environmental Resources
3.3	Regional Geology
3.4	Regional Hydrogeology
4.0	Characteristics of Chemical Contamination Based on Previous Investigations
4.1	Potential Contamination Sources
4.2	Chemical Characteristics of Soil
4.3	Chemical Characteristics of Groundwater
4.4	Discussion of Chemical Analytical Results
4.5	Identification of Additional Data Needs

- 5.0 Site Investigation Tasks**
 - 5.1 Sediment Sampling
 - 5.2 Soil Sampling
 - 5.4 Quality Assurance/Quality Control

- 6.0 Site Investigation Results**
 - 6.1 Soil Chemical Analytical Results
 - 6.2 Sediment Chemical Analytical Results
 - 6.4 Discussion
 - 6.4.1 Extent of Soil Contamination
 - 6.4.3 Summary

- 7.0 Assessment of Potential Remedial Alternatives**

- 8.0 Summary and Conclusions**

6.12 Estimated Schedule of the Remedial Investigation Activities

Table 2 presents the estimated schedule for the execution of the Remedial Investigation Activities.

TABLE 2

Estimated Time Schedule for the Remedial Investigation (RI)

**Precision Concepts
26 Precision Drive
Shirley, New York**

Task	Description	Time In Weeks															
		1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16
1	Conduct Field Investigation:	X	X	X	X												
2	Laboratory Analysis					X	X	X									
3	Conduct Additional Sampling (If necessary)								X	X							
4	Data Evaluation										X	X	X	X			
5	Report Submission														X	X	X

6.13 Miscellaneous

The project manager for this project will be Eugene G. Kempey, P.E. The field supervisor will be Matthew Boeckel. The drilling firm will be Impact Environmental Inc. The Quality Assurance Officer (QAO) will be Mike Veraldi.

The laboratory results and method detection limits for each analysis per matrix will be as per NYS DEC ASP Revision '95 requirements. Table 3 shows the number of samples to be collected, matrices, holding time, analytical protocols, and estimated number of QA/QC samples.

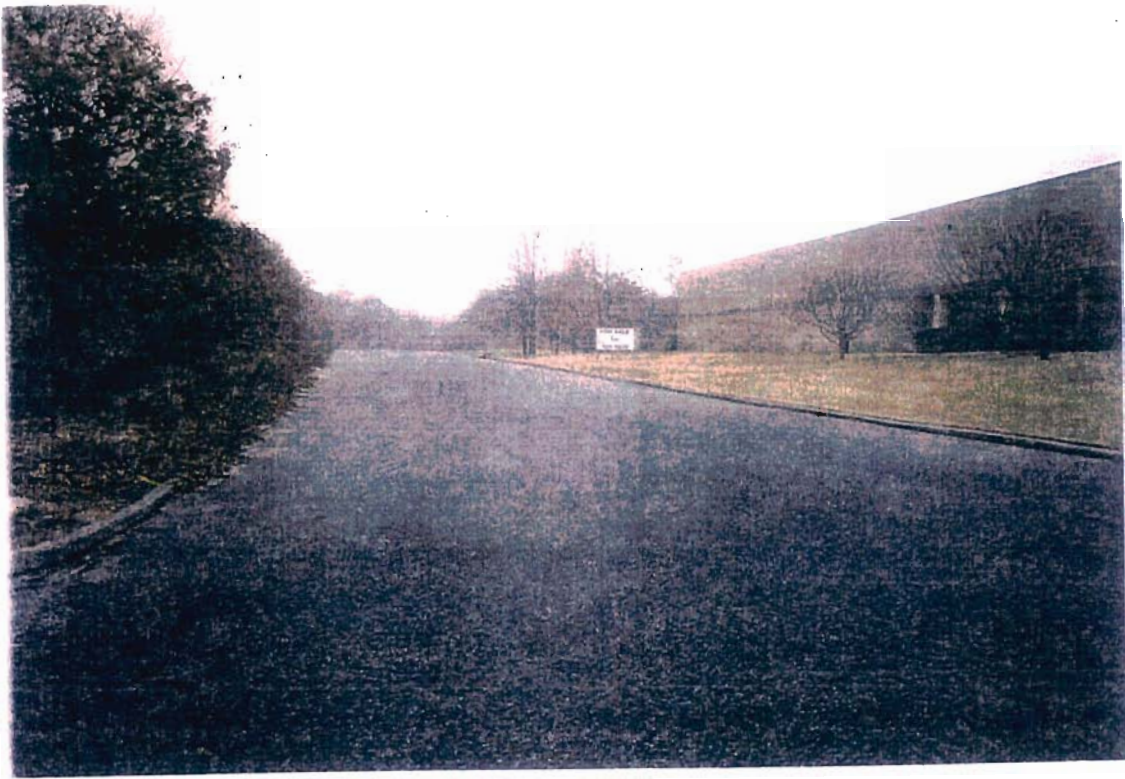
TABLE 3

**Sample containers, Preservation, Holding Times,
And Analysis Methods**

Sample Matrix	Number of Samples	Parameters	Containerization Type	Preservation	Holding Time	NYS DEC Analysis Method
Soil	11	VOCs	Glass Jar with Teflon Liner	4°C (Zero Headspace)	7 days	TCL Volatiles
Soil	11	Metals	Plastic Jar	4°C	6 months	TAL Metals
QA/QC	5	VOC/Metal	Glass Jar with Teflon Liner & Plastic Jar	4°C (Zero Headspace)	7 days/ 6 months	TAL Metals & TCL Volatiles

- Notes: - QA/QC blanks will be obtained at a rate of one (1) per day.
- The laboratory will report the data in a NYS DEC ASP Category B or USEPA CLP deliverables package.
- Holding times begin on the date the sample is received by the laboratory. Samples will be received by the laboratory within 48 hours of sampling.

APPENDIX A



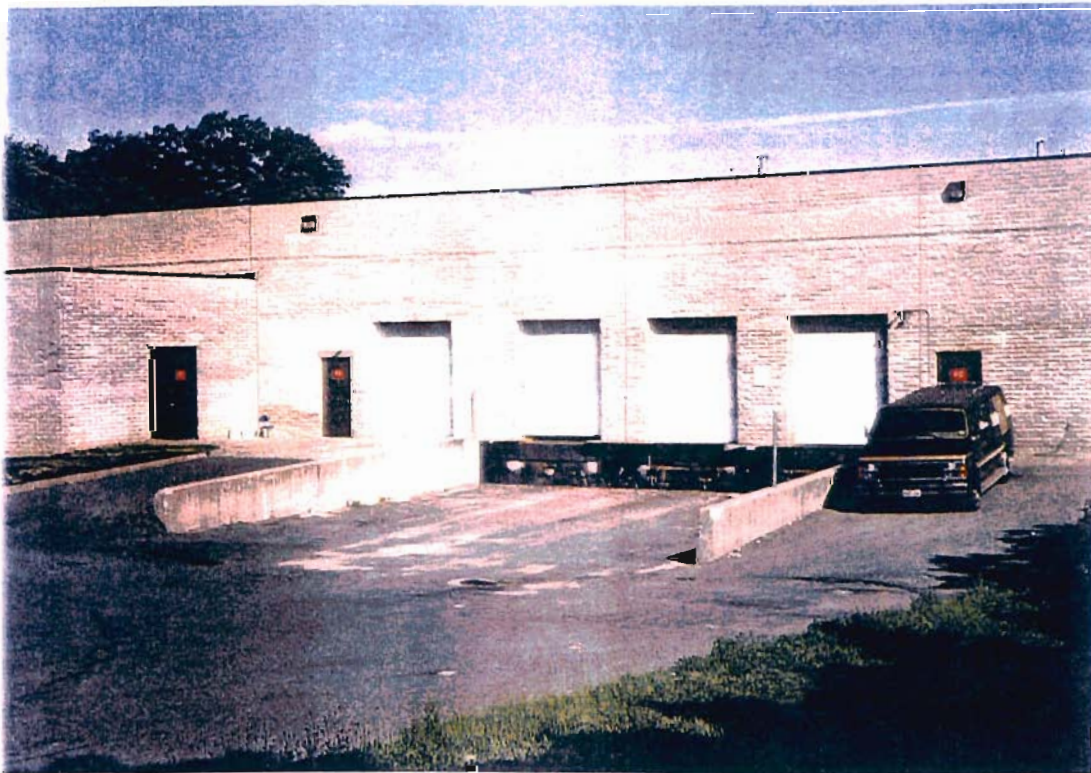
1. View as seen looking east along Precision Drive from subject site.



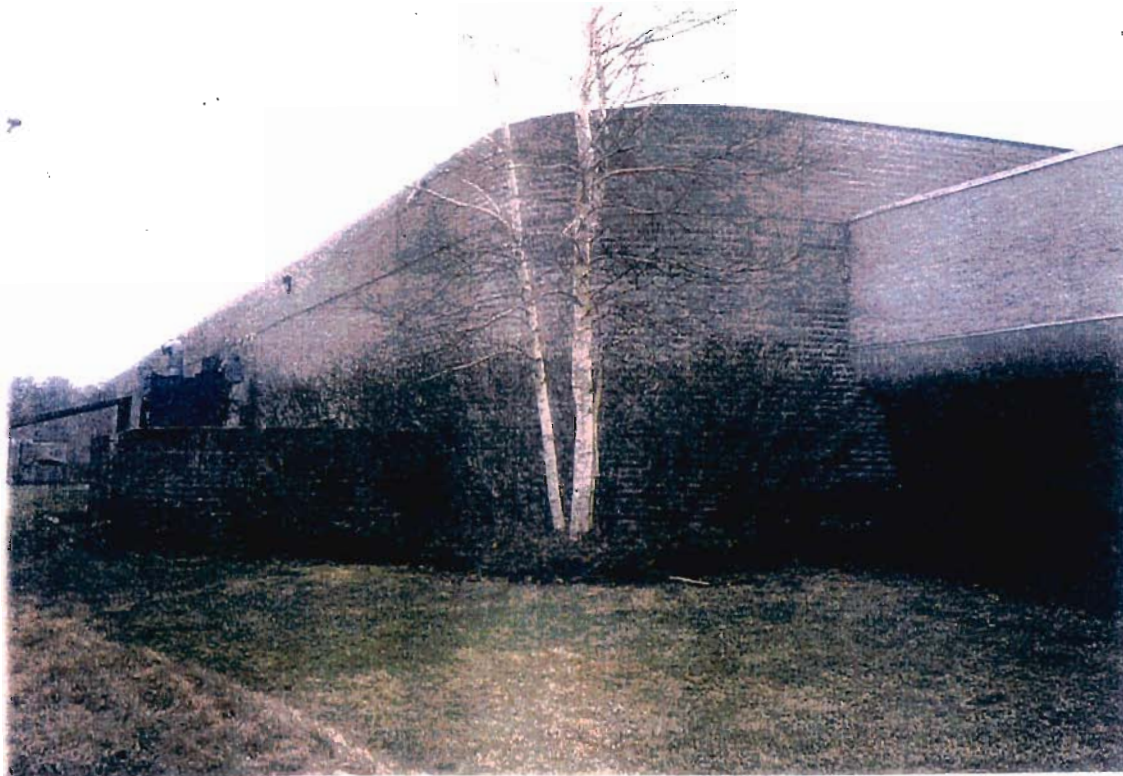
2. View as seen looking west along Precision Drive from subject site.



5. View of the front (north) side of the subject building.



6. View of the rear (south) side of the subject building.



7. View of the east side of the subject building.



8. View of the west side of the subject building.



9. View of the adjacent properties located north of the subject site.



10. View of the adjacent properties located south of the subject site.

APPENDIX B

SUFFOLK COUNTY
GROUNDWATER INVESTIGATION REPORT:
NORTH SHIRLEY, NEW YORK
OCTOBER - 1990

SUMMARY

Organic contamination in the form of trichloroethane (TCA) and dichloroethane (DCA), affecting the private wells of at least five homes in the area of Carleton Drive East, North Shirley, was found to be confined to a narrow plume with a length of approximately 3100 feet. The plume's source has been identified as emanating from an area of the Brookhaven R & D Plaza industrial park, located just north of the affected homes. Another contributing source of the contamination is the Brookhaven National Lab (BNL), which is located further upgradient (north) of both Brookhaven R & D Plaza and the affected homes, but which contributes low levels of these and other organic chemicals found at much greater depth than the principal plume.

BACKGROUND

In March of 1990, BNL informed the Suffolk County Department of Health Service Bureau of Drinking Water (SCDHS-BDW) that a test well (#130-2), located near the southern boundary of BNL and screened 80 to 90 feet below the water table was contaminated with traces of TCA and DCA (11 and 4 ppb, respectively).

In response to this finding, the SCDHS-BDW initiated a sampling survey of private wells downgradient of the contaminated BNL well. During the time period of March-June 1990, 90 private wells were sampled in an area of North Shirley, Town of Brookhaven, New York, bounded by Carleton Drive East, Wellwood Drive, Crestwood Drive and William Floyd Parkway. These samples were tested by the Suffolk County Department of Health Services' Public Health Laboratory (SCDHS-PHL) for trace organics (Table 1). Five of the private wells were found to be contaminated with the organic solvents 1,1,1-Trichloroethane (TCA) and 1,1-Dichloroethene (DCE). All five of these homeowner wells exceeded the New York State Health Department's drinking water standard of 5 parts per billion (ppb) for principal organic compounds. The concentrations detected ranged from 41 ppb to 340 ppb for the organic solvent TCA, and from 2 ppb to 20 ppb for DCE.

From May to October 1990, twenty groundwater monitoring wells (Fig. 1) were installed by the Suffolk County Department of Health Services' Bureau of Groundwater Resources (SCDHS-BGR). The monitoring program was designed to determine the prevailing groundwater flow direction, and if possible, the origin of the contamination.

SUFFOLK COUNTY GROUNDWATER INVESTIGATION REPORT: NORTH SHIRLEY-2

An additional goal of the program was to map out the impacted area, and secure enough data to support the extension of public water mains under the Federal Superfund Program.

WELL INSTALLATION AND SAMPLE COLLECTION

The SCDHS-BGR's Mobile B-53 hollow stem auger rig was employed to drill the wells. Drilling was done with 3 1/4" I.D. by 6 1/2" O.D. hollow stem augers; the lead auger section was capped with an expendable plug to prevent formation cuttings from entering the augers. The borehole was advanced to the maximum depth deemed safe, i.e., with enough power left to retrieve the augers (typically less than 150 feet, averaging approximately 120 feet). After the desired depth was reached, a 2-foot stainless steel well point attached to two-inch steel casing sections (10 feet or 20 feet long) was lowered inside the hollow stem augers, and the expendable plug punched out. The auger sections were then removed, exposing the screen to the formation.

Water samples were obtained in 10-foot or 20-foot intervals by pumping the deepest setting first, and then pulling the well up either 10 feet or 20 feet and unscrewing the uppermost section of pipe. Since the static water level exceeded 30 feet, a suction pump could not be used. A single pipe jet pump system was employed to obtain samples for screen settings sufficiently below the top of the aquifer, and bailing was used for screen settings near the top of the aquifer. Priming of the jet pump system was accomplished by using clean potable water obtained from a Suffolk County Water Authority (SCWA) approved hydrant. Samples were collected after clear, silt-free formation water was obtained -- usually after pumping the well for 35-45 minutes (at a rate of 5-10 gpm). Bailed samples were collected only after the well was purged an equivalent of three casing volumes to ensure a representative groundwater sample.

WELL LOCATIONS AND SAMPLING STRATEGY

Well locations were selected along four east-west transects that run approximately perpendicular to the prevailing regional groundwater flow direction (approximately due south, Fig. 1). The objective of this strategy was to quickly determine the exact local groundwater flow direction, isolate the industry or industries causing the groundwater contamination, and determine the width, length and depth of the plume. The actual location of the wells were chosen utilizing the existing data on homeowner wells generated by the SCDHS-BDW, in conjunction with data collected by the Suffolk County Department of Health Services' Inspectional Service Section (SCDHS-ISS) from the leaching pool of one of the industries located in the Brookhaven R & D Industrial Park (1200 ppb of TCA were found in May of 1988).

SUFFOLK COUNTY GROUNDWATER INVESTIGATION REPORT: NORTH SHIRLEY-3

The northern-most transect, along the south service road of the Long Island Expressway, was designed to determine groundwater quality upstream of the suspected industry in the Brookhaven R & D Industrial Park (Fig. 1) and to aid in determining groundwater elevations and directions. The second transect, along Natcon Drive in the Brookhaven R & D Industrial Park, was selected to determine if the suspect industry was emitting TCA contamination. The third transect, which was installed along Carleton Drive East, was designed to corroborate the groundwater contamination observed in the homeowners wells. The additional wells installed south of this transect were designed to determine the length of the plume along its spine.

GROUNDWATER DIRECTION

The regional groundwater table map (CONTOUR MAP OF THE WATER TABLE AND LOCATION OF OBSERVATION WELLS IN SUFFOLK COUNTY, NEW YORK MARCH 1990), prepared by the SCDHS-BGR, indicates a groundwater flow direction of due south in the study area. To confirm the accuracy of the regional groundwater flow direction, the SCDHS-BGR installed additional wells in the study area and utilized BNL wells and wells previously installed by the New York State Department of Environmental Conservation (NYSDEC) as part of an investigation of benzene contamination of individual domestic water supply systems just southwest of the study area.

The SCDHS-BRG groundwater wells used to determine the local groundwater flow direction were wells #1 - # 7 (Fig.-1). In addition to being used to determine water table elevations, these wells were also sampled to determine groundwater quality conditions. The BNL wells utilized in constructing the localized water table map were wells 115-01, 122-01, and 130-01; these wells appear on a water-level contour map prepared by Geraghty & Miller, Inc., entitled: BROOKHAVEN NATIONAL LABORATORY SOUTHERN BOUNDARY WATER-LEVEL CONTOURS, JULY 20, 1990 (attached). Some additional BNL wells were leveled in and measured, but due to the large areal coverage, these additional wells were not useful in determining the groundwater flow direction in the study area. The NYSDEC wells that were utilized to construct the local water table map were wells 17, 22, 29, 30, 31, 34, 36, 37, and 38; these wells appear in a report entitled: PRELIMINARY SUBSURFACE INVESTIGATION OF NORTH SHIRLEY, N.Y, -- SP# 87-4055, prepared by Marine Pollution, Inc. -- 16 March, 1988. In addition to these wells, SCDHS-BGR monitoring wells S-47750, S-51980, and S-62404 were employed as control wells (CONTOUR MAP OF THE WATER TABLE AND LOCATION OF OBSERVATION WELLS IN SUFFOLK COUNTY, NEW YORK MARCH 1990).

An accurate local water table map was constructed using the above wells and synoptic water level readings. The due south groundwater flow direction obtained from the regional water table map was confirmed for the study area (Fig. 1). The work done by Geraghty & Miller, Inc., also confirms that the groundwater flow direction is due south in the study area.

SAMPLING RESULTS

The sampling effort was divided between the SCDHS-BDW and the SCDHS-BGR, with the BDW sampling private domestic wells in the study area, and the BGR installing and sampling groundwater profile wells. The sampling results of the BDW were summarized earlier in this report. The sampling results from the BGR drilling effort follow.

From May to October 1990, 20 groundwater monitoring wells (16 of which were groundwater profile wells) were installed and sampled by the SCDHS-BGR. As previously discussed, the wells were installed along east-west transects to facilitate the isolation of suspected sources of contamination.

The northern-most transect along the south service road of the Long Island Expressway just east of the William Floyd Parkway was designed to be upstream of the suspected industry in the Brookhaven R&D Industrial Park, and downstream of BNL, which was also a suspected source of the contamination found in the homeowner wells. This transect is comprised of groundwater profile wells #12, #21, #1, #20, #2, & #3 (in West to East order - Fig. 1). The data collected from these wells indicates low level organic contamination, (less than 16 ppb for TCA) extending 30 feet-110 feet below the water table, along the entire length of the transect (1500 feet). Other associated contaminants were found to be similarly distributed. Trichloroethene (TCE) and DCE ranged in concentration from non-detect (ND) to 6 ppb. Tetrachloroethene (PCE) was detected in well # 1 in concentrations ranging from 2 ppb to 5 ppb.

The Natcon Drive (also known as Precision Drive) transect is comprised of wells #7, #13, #11 & #10 (in West to East order). This transect was designed to ascertain if groundwater contamination was being caused by Precision Concepts Inc. (Fig. 1). In May of 1988, the SCDHS-ISS found 1200 ppb of TCA in a leaching pool located on the east side of the Precision Concepts building. Subsequent resampling on May 3, 1990 of this leaching pool which is used for non-contact cooling water (personal communication with Brian Robinson of SCDHS-ISS, October 1990), revealed no organic contamination at a detection limit of 40 ppb.

Significant TCA contamination was found at shallow depths in groundwater profile wells #11 & #13, which are located just south of the Precision Concepts building along Natcon Drive (Fig. 1). The contamination was spread out over approximately a 200 foot wide area and ranged in depth from 30 feet to 40 feet below the water table. The TCA concentration observed ranged from ND to 130 ppb in well # 13, and from 3 ppb to 9300 ppb in well # 11. In addition to the high concentration of TCA found at this level, other organics were also detected in significant concentrations.

SUFFOLK COUNTY GROUNDWATER INVESTIGATION REPORT: NORTH SHIRLEY-5

Among these were Vinyl Chloride (1 ppb), 1,1, Dichloroethane (95 ppb) TCE (3 ppb), PCE (290 ppb), Cis 1,2 DCE (0.7 ppb), and 1,1-DCE (430 ppb). Minor concentrations (3 ppb - 7 ppb) of TCE and 1,1, DCE were found deeper in the aquifer (80 - 100 feet below the water table). This deeper contamination is of the same type and concentration as found in the South Service Road transect, and probably originates further upstream from past activities at BNL.

The Ramsey Road transect was mainly used in the determination of the groundwater flow direction. It consists of wells #4, #22, #5, and #6 (in West to East order), with well #22 being a groundwater profile well, and wells #4, #5 and #6 being water table wells (i.e. screened 10 - 20 feet below the water table). No organic contamination was detected in wells #5 and #6, and only traces of TCA (1ppb) and methylene chloride (2ppb) were detected in well #4. Groundwater profile well # 22 was installed to ascertain if the contamination observed in wells #11 & #13 could be found at this site. Relatively low levels (3 ppb) of TCA were detected in the 0-10 foot level, while 29 ppb of TCA was found in the 31 - 40 foot interval below the water table (Fig. 1).

The Carleton Drive East transect was installed to try to corroborate the contamination observed in the homeowner wells along Carleton Drive East near its intersection with Freestate Drive (Table 1 & Fig. 1). As previously indicated, the TCA contamination of the homeowner wells ranged from 41 ppb to 340 ppb at a depth of 40 feet to 60 feet below the water table (based on information provided by homeowners who knew their well depths). Wells #14, #15, and #16 were clean except for traces of chloroform (less than 2 ppb). Well #17 was contaminated with traces of TCA: 1 ppb at the 0-10 foot level, and 5 ppb at the 21-30 foot level. Some additional organic contaminants were found at the 51-60 foot level below the water table: 17 ppb of DCE, 1 ppb of Bromodichloromethane, 0.9 ppb of Chlorodibromomethane, 0.6 ppb of DCE, and 4 ppb of Chloroform.

The final two wells installed, well #18, and #19, comprise the Moriches Middle-Island Road transect. These wells were installed to determine the length of the contamination plume. Well # 18 was found to be clean at all the levels tested (Fig. 1). This was a surprising result, since 41 ppb of TCA was found in a homeowner well directly across the street from well # 18 (Table 1). Well # 19 was also found to be clean, except for traces of chloroform (1ppb) at the 55 foot and 68 foot levels (Fig. 1). These two wells, which are located some 3400 feet downgradient of the suspected source, do not show signs of being impacted, or having been impacted, by the suspected source.

CONCLUSION

The cooperative effort of the SCDHS's BDW, BGR and ISS resulted in the identification of an area north of Natcon Drive and south of the Long Island Expressway, occupied by Precision Concepts, Inc., as the major source of the contamination observed in the homeowner wells. High concentrations of TCA, ranging in value from 130 to 9300 ppb, were found in wells #11 and #13 at depths of 10 to 40 feet below the water table, immediately downgradient of the area occupied by Precision Concepts, Inc. These two wells are located approximately 600 feet downgradient of a dry well (located just east of the Precision Concepts, Inc. building) that had 1200 ppb of TCA contamination in May of 1988 (Fig. 1).

The local groundwater flow direction was found to be due South, which has created a narrow (less than 300 feet wide) plume approximately 3100 feet long, emanating from the major source. The regional groundwater flow velocity ranges from 1.5 to 2.0 feet per day. As it moves south the plume is spreading slightly and sinking slowly with minimal dilution. The ultimate fate of the contamination is to move deeper in the flow system, and ultimately discharge to saltwater at the south shore groundwater boundary.

A contributing source of contamination of the deeper parts of the aquifer is BNL. Ubiquitous TCA and DCA contamination of less than 20 ppb has been observed along a 1500 foot wide transect just south of the LIE at depths of 60 to 110 feet below the water table.

RECOMMENDATIONS

The SCDHS-BRG's initial investigation found that the major source of TCA contamination in the homeowner wells is located south of the Long Island Expressway and north of Natcon Drive, an area occupied by Precision Concepts for the last eight years. A consulting firm should be hired by this company to continue the investigation on site and to carry out the following recommendations:

1. Inventory all chemicals employed at this facility since its occupation by Precision Concepts to determine storage, usage, disposal, and haulage histories.
2. Determine why TCA was found in 1988 in a leaching pool that was supposed to be used only for non-contact cooling water.
3. Drill additional on site wells to determine the actual area from which the contamination originated.

SUFFOLK COUNTY GROUNDWATER INVESTIGATION REPORT: NORTH SHIRLEY-7

4. Remove any active source that is found, and modify the responsible process or processes to comply with the Suffolk County Sanitary Code.
5. Prepare a report on the findings and certify to the satisfaction of the SCDHS-ISS that all activities associated with manufacturing processes comply with the Suffolk County Sanitary Code.
6. Remediate the effects of the contamination on the private homeowner wells by paying the cost of watermain extension and hook-up of the affected homes.

In addition to the above recommendations BNL should initiate the following steps to deal with the low level of ubiquitous contamination emanating from their property:

1. BNL should have their consultant Geraghty & Miller Inc. do a review of past to present chemical usage and disposal practices. All ongoing activities should be brought in compliance with the Suffolk County Sanitary Code.
2. BNL should install additional wells along their southern boundary to determine the width of the observed contamination; more wells should then be installed to determine the areal on-site extent and, if possible, the source(s) of this contamination. If found to be active they should be removed.
3. A report should be prepared by the consultant outlining their findings and recommendations and submitted to the SCDHS for review.

PHASE I & II ENVIRONMENTAL SITE ASSESSMENT

PHASE I & II ENVIRONMENTAL SITE ASSESSMENT

**PHASE I
ENVIRONMENTAL SITE ASSESSMENT
AND
PHASE II SUBSURFACE INVESTIGATION**

**COMMERCIAL BUILDING
26 PRECISION DRIVE
SHIRLEY, NEW YORK 11967**

GCI Project No. 960102

Prepared For:

**Mr. Vince Marino
2701 Boulder Park Court
Winston Salem, North Carolina 27101**

Inspection Date: January 31, 1997

Subsurface Investigation Dates:

May 16, 1996

January 24, 1997

January 31, 1997

Report Date: February 18, 1997

Prepared by:

**General Consolidated Industries, Inc. (GCI)
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REPORT SPECIFICATIONS

This report contains seventy-two (72) pages of text.

Copies and circulation of this report are as follows:

- Two (2) Bound copies to Mr. Vince Marino.

- One (1) Copy in the confidential client file at General Consolidated Industries, Inc.

- One (1) Copy on security protected computer disk at General Consolidated Industries, Inc.

This report is prepared for the exclusive use of parties noted above and is considered private and strictly confidential. General Consolidated Industries, Inc. shall not release this report or any of the findings of this report, to any person or agency except with the authorization of the principal parties noted above.

1.0 INTRODUCTION

General Consolidated Industries, Inc. (GCI) has been retained to prepare an updated Phase I Environmental Site Assessment and Phase II Subsurface Investigation for the property located at 26 Precision Drive, Shirley, Town of Brookhaven, Suffolk County, Long Island, New York. GCI has prepared this assessment in accordance with the general requirements of "due diligence" in order that secured creditors may be classified as "innocent landowners" under the Superfund Amendments and Reauthorization Act (SARA 1986). The assessment has been completed by qualified professionals in accordance with the specific requirements established by the American Society for Testing and Materials (ASTM), as well as all industry standards for evaluating collateral risk during the performance of an environmental assessment.

1.1 Objectives / Scope of Work

The objective of this environmental assessment is to review the existing and former conditions and utilization of the site to assess potential liability with respect to the presence of hazardous materials that may pose a potential environmental or human health threat. Please note that a Phase I Environmental Site Assessment report dated August 14, 1995 was originally prepared for the subject site. The objective of this report is to update all Phase I information as well as incorporate the findings of all Phase II Subsurface Investigation work conducted at the site. Environmental threats would include, but not be limited to, hazardous/toxic wastes or raw chemicals stored, dumped or spilled on premises, underground storage of hazardous materials, friable asbestos, and identification of potential off-site sources of hazardous waste contamination such as releases from storage facilities adjacent to the subject site.

1.2 Methodology

To complete the environmental assessment, the following procedures were conducted:

- 1) A detailed field inspection of the subject site was performed including all accessible areas of the building(s) interior, exterior, property grounds and site perimeter.
- 2) Facility management personnel were interviewed concerning activities conducted at the subject site, past and present.
- 3) Neighboring property utilization was evaluated to determine potential impact on subject site.
- 4) The following federal and state regulatory agency documents were reviewed concerning the location of known hazardous waste sites proximal to the subject site: CERCLIS, National Priorities List, RCRIS-TSD, RCRIS Generators, ERNS, Inactive Hazardous Waste Disposal Sites, Landfills and/or Solid Waste Disposal Sites, Leaking USTs, Registered USTs, and New York State Department of Environmental Conservation (NYS DEC) Spill File.
- 5) Research was conducted through the Suffolk County Department of Health Services (SCDHS) and the Town of Brookhaven for the number, size and date of installation of any storage tanks, as well as any previous or existing violations.
- 6) Research was conducted on files held at the Town of Brookhaven to compile a chain-of-ownership of the subject site to identify past owners and possible uses of the property.
- 7) A total of six (6) soil borings were installed throughout the subject property, with respect to possible on-site and off-site contamination sources. In addition, the remediation of a collection pit was conducted.

- 8) Representative samples from the soil borings, drywells and collection pit were submitted for laboratory analysis utilizing EPA Method 624 as well as the protocol specified in the Suffolk County Department of Health Services (SCDHS) "Guidelines for Minimal Equipment and Procedures for Pumping Out Industrial Waste Pools".
- 9) A search was made for sensitive ecological areas and regulated wetlands in the vicinity of the subject site.

Evaluations, conclusions and recommendations are submitted based on the careful consideration of the results of the above research. Recommendations are formulated with respect for maintaining the collateral value of the property. This report is intended to assess the threat to human health and/or the collateral value of the property. It is generally not within the scope of this report to perform intrusive or aggressive testing of suspect materials observed at the site. Materials will be identified as environmentally suspect, however, a representative sampling procedure is required to fully assess the occurrence of the following materials: electrical devices containing PCBs and the occurrence of radon gas.

The accuracy of presenting the findings of this environmental assessment was considered of paramount importance during the formulation of this report. However, the report's accuracy is limited to the information available from interviews, records, files and plans released by the property owner and/or his representatives and/or the respective regulatory agencies, their attorneys and information officers. The above mentioned parties interest in issues presented herein is unknown to GCI. GCI expressly reserves its common law copyright and other property rights in this report. This report is not to be reproduced, changed or copied in any form or manner whatsoever, nor is it to be assigned to any third party without first obtaining the express written permission and consent of GCI.

Matthew Boeckel
Senior Hydrogeologist
General Consolidated Industries Inc.

Tom P. Smyth
President
General Consolidated Industries, Inc.

2.0 SITE DESCRIPTION

A field inspection of the subject site was completed by GCI Senior Hydrogeologist, Mr. Matthew Boeckel on January 31, 1997. The property was surveyed by inspecting the building interior(s) on a room by room basis; areas of particular note were the sources of building heat, the structure's thermal and pipe insulation and areas where there was storage of chemicals or hazardous materials. The exterior was inspected by walking the grounds with special attention given to the perimeter of the site, point sources of discharge or emission, injection wells, drywells, aboveground storage facilities, storage drums, and aboveground connections to underground storage tanks (USTs). The survey was conducted with the assistance of Mr. Eugene Kempey, P.E. and a representative of the facility. The activities conducted in every part of the property were identified for the purpose of determining potential environmental threats, of interest were the waste handling procedures, storage of hazardous materials and neighboring activities. Photographs were also taken of the subject site, please see Appendix E - Site Photographs.

2.1 Site Location

The subject site is located at 26 Precision Drive (AKA Natcon Drive), 1,343 feet east of William Floyd Parkway, abutting Roned Road on the east side, south of the Long Island Expressway South Service Road, Town of Brookhaven, Suffolk County, Long Island, New York. A copy of the Area Map - Figure 4.0 and the Tax Map - Figure 5.0, and the Site Plan - Figure 6.0 are included as part of the report.

Ownership Information: Industrial Development Agency (Precision Concepts)
3233 Route 112
Medford, N.Y. 11763

Tax Map Number:	Section	584.00
	Block	01.00
	Lot	04.034

Site Dimensions:

The parcel is an irregular rectangular shaped parcel, with approximately 1,355 feet of frontage along the south side. The property is approximately 900 feet deep. The total subject parcel is approximately 636,000 square feet or 15.9 acres. The building itself occupies approximately 6% of the subject site. The remainder of the property is developed as perimeter buffer and parking areas for the facility.

Sources:

The following agencies and/or sources were contacted in the formulation of this assessment report.

1. U.S. Environmental Protection Agency (US EPA)
2. New York State Department of Environmental Conservation (NYS DEC)
3. New York State Department of Health (NYS DOH)
4. Suffolk County Department of Health Services (SCDHS)
5. Town of Brookhaven (TOB)
6. Suffolk County Water Authority (SCWA)
7. Suffolk County Sewer District (SCSD)
8. Long Island Lighting Company (LILCO)

2.2 Site Characteristics

The subject site is a single lot parcel, improved by a commercial warehouse/office building, which is currently occupied by "Luitpold Pharmaceutical". The subject property was originally developed for use as a commercial/industrial facility with on site parking areas.

The subject building is constructed of concrete block with brick veneer. The building rests on a poured concrete slab foundation. Windows are comprised primarily of bronze plate glass in aluminum frames.

The building space consists of office areas along the north end, reception/waiting area, conference room, lunch room, storage rooms, a research and development lab, office areas, bathrooms (office and warehouse), loading area and three (3) warehouse storage areas along the south end.

The office section and primary entrance to the building is accessible from the north and west sides. Four (4) overhead bay doors access the warehouse/storage areas from the south side. All office areas are finished with carpeted floors, sheetrock walls and suspended acoustic ceilings. All manufacturing/storage areas remain unfinished with poured concrete floors, concrete walls and steel corrugated ceilings/roof deck.

The heat for the site is provided to the warehouse areas of the building via gas and electric fired, ceiling mounted forced hot air systems. All other areas including offices and research and development areas are heated via a gas fired, WEIL McLAIN boiler/circulating hot water baseboard system.

The primary roof of the building was observed to be a flat/terraced type. Storm water runoff at the building is directed to internal drains that reportedly are piped to the on-site drywells.

The electric and gas service for the entire subject site is supplied by Long Island Lighting Company (LILCO). The drinking (potable) water is supplied by the Suffolk County Water Authority (SCWA). All sanitary discharges are directed to the on-site sanitary cesspool system.

The building and the surrounding property were observed to be maintained in good condition.

Utilities:

The site is serviced by the following utilities:

- Electrical service is provided by Long Island Lighting Company (LILCO).
- The gas service is provided by Long Island Lighting Company (LILCO).
- Water is supplied by the Suffolk County Water Authority (SCWA).
- Sanitary discharges connected to the on-site cesspool system.

Site Security:

The potential for vandalism type dumping of hazardous material on the property is considered moderate to high. The property is very secluded and situated on a very low traffic, secondary thoroughfare, which is poorly lighted. Access is provided to the property from Precision Drive (AKA Natcon Drive) via two (2) driveways. There are no gates or fencing existing at the driveway areas. The north side is bound by the LIE south service road.

Sewer / Storm Water Discharge & Drywells:

Sewage generated on site is reportedly directed to the on-site cesspool/septic tank.

Storm water at the parking areas is directed to several leaching pools including: two (2) leaching drywells located in the common parking area at the west side of the subject site, two (2) in the common parking area at the south side of the subject site, one (1) at the north end of the common parking area, and one (1) located in the lawn area at the west side of the subject building. Two (2) leaching drywells (DW-1 and DW-2) are located in the loading area along the south side of the subject site. based upon the location of DW-1 and DW-2 there was concern that the drywells may have received illegal discharges. In addition it was determined that there are two (2) buried drywells (DW-3 and DW-4) located west of the loading dock area which are utilized for collection of storm water from the roof. Based upon the fact that there was a "Y" connection on the roof drain inside the building which was not properly sealed, there was concern that the two (2) buried drywells may have received illegal discharges. A collection pit was discovered along the east side of the interior subject building wall. The pit was reportedly used for receiving

cooling water runoff. There was concern that the collection pit may have received illegal discharges. It was determined that an investigation of the drywells (DW-1 through DW-4) and the collection pit be conducted. The results of the drywell and collection pit investigation are summarized in Section 3.0 - Site Inspection / Subsurface Investigation.

There were no floor drains, slop sinks or other forms of subsurface discharge observed within the building at the time of the inspection.

Storage Drums:

Activities conducted at the subject site do entail the use and storage of drums. There is one (1) - 55 gallon drum of hazardous waste chemicals is stored in the research and development lab. According to documents provided, this drum contains waste corrosive liquid, Nos (D002), consisting of hydrochloric and sulfuric acids. This drum is stored in a designated hazardous waste storage cabinet, with good housekeeping practices observed. It was reported that Chemical Pollution Control, a licensed hazardous waste transporter, is responsible for picking up and disposing of all chemical wastes at the subject site.

2.3 Facility Operations: Current & Past Uses

The property has been occupied for industrial and warehouse use since originally constructed prior to 1985. There is no record that the building had ever been utilized for laboratory or x-ray processing, although metal stamping, soldering/assembling and cleaning were used by the company formerly occupying the subject site, known as Precision Concepts. Precision Concepts was a manufacturer of metal fixtures for use by the electronics industry. Precision Concepts operated its business from 1985 to 1991. There is record that there has been processing and storage of hazardous materials by Precision Concepts; although the normal operations, when conducted properly at the facility by the present uses carried out by Luitpold Pharmaceutical, Inc. would not appear to pose a threat to human health or the collateral value of the property.

There is no record that the building had ever been used for laboratory, metal plating or x-ray processing. There is record that there has been processing and storage of hazardous materials at the subject site. There is one (1) - 55 gallon drum of hazardous waste chemicals is stored in the research and development lab. According to documents provided, this drum contains waste corrosive liquid, Nos (D002), consisting of hydrochloric and sulfuric acids. This drum is stored in a designated hazardous waste storage cabinet, with good housekeeping practices observed. It was reported that Chemical Pollution Control, a licensed hazardous waste transporter, is responsible for picking up and disposing of all chemical wastes at the subject site.

The building as well as the property are both in good condition. The normal operations conducted at the facility by the present use, would not pose a threat to human health or the collateral value of the property, assuming proper industry standards are being adhered to.

2.4 Site Hydrology & Geology

Suffolk County, Long Island, New York is located in the Atlantic Coastal Plain physiographic province which is characterized by low hills of unconsolidated sands, gravel and silt. According to Franke (1972), regionally, the subsurface deposits consist of the Upper Glacial deposits that are characterized by southward sloping deposits of sand, gravel and silt. The Upper Glacial deposits have a maximum thickness of 600 feet. They are underlain by the Magothy, Raritan and Lloyd Formations. The Gardiners clay and the Jameco gravel separate the Upper Glacial deposits and the Magothy Formation along the south west portion of Long Island.

The subject site is in the Upper Glacial aquifer. The Upper Glacial has been designated a sole source aquifer by the US EPA, and as such is protected by US EPA mandated remediation legislation.

According to groundwater contour maps provided by the United States Geologic Survey (USGS) and the SC DHS groundwater is approximately forty (40) feet below ground surface at the subject site. Groundwater flows south under a regional hydraulic gradient of 0.001 ft/foot.

2.5 Groundwater Use

The use of local groundwater as a potable drinking water source can compound a property owners potential financial exposure and associated liabilities from subsurface contamination. GCI therefore evaluated the extent of the local groundwater usage in the area of the subject site.

Municipal water is supplied to most residences and businesses in the area, including the subject site, by the Suffolk County Water Authority (SCWA).

2.6 Adjacent / Surrounding Properties and Uses

A visual inspection of the adjacent and surrounding properties indicated that there were no properties posing an apparent environmental threat to the subject site. The site is located in a highly developed industrial neighborhood.

NORTH: South service road of Long Island Expressway (LIE), followed by LIE, followed by Brookhaven National Laboratory.

SOUTH: Precision Drive (AKA Natcon Drive), followed by wooded undeveloped land. A one story commercial/warehouse type facility occupied by METRO CORP., is located diagonally southeast.

- Similar in Nature and Use.

EAST: Vacant wooded property, followed by Roned Road, followed by vacant wooded property.

- Similar in Nature and Use.

WEST: Vacant/undeveloped wooded property.

2.7 Chemical Staining & Stressed Vegetation

A surface spill of petroleum hydrocarbon products or other chemicals may be absorbed onto the soil particles and retained in the near-surface sediments. Plant life near a spill will often be killed or will suffer stress from the contamination of the soil with these products. The condition of vegetative growth can be an indicator of near-surface soil conditions.

During the site inspection, GCI personnel did not identify any evidence of chemical spills such as soil staining or stressed vegetation, with the exception of minor staining of the pavement in the vicinity of the loading dock area. The stains are most likely the result of automotive fluid leaks from trucks and other vehicles frequently idling in this area.

A review of the New York State Department of Environmental Conservation (NYSDEC) records indicated that a release of petroleum occurred at the subject site on December 12, 1991. The records stated that approximately five (5) gallons of petroleum product had been spilled on land as a result of poor housekeeping practices. The NYSDEC was notified and Spill No. 9109772 was assigned to the site. The spill was cleaned-up at the site, and the NYSDEC was satisfied with the remedial efforts and closed the spill file on July 7, 1992. There is no further work required at this time.

2.7 Chemical Staining & Stressed Vegetation

A surface spill of petroleum hydrocarbon products or other chemicals may be absorbed onto the soil particles and retained in the near-surface sediments. Plant life near a spill will often be killed or will suffer stress from the contamination of the soil with these products. The condition of vegetative growth can be an indicator of near-surface soil conditions.

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2.8 Chemical Storage Facilities

The activities conducted at the subject site do entail the use and/or storage of chemicals. Small amounts of chemicals are used in the laboratory testing, research and development. These chemicals are stored very securely and are of insignificant quantity. There was one (1) - 55 gallon drum of hazardous waste chemicals stored in the research and development lab. According to documents provided, this drum contains waste corrosive liquid, Nos (D002) consisting of Hydrochloric and sulfuric acids. This drum is stored in a designated hazardous waste storage cabinet, with good housekeeping practices observed.

The New York State Department of Environmental Conservation Petroleum Bulk Storage (NYS DEC PBS) database records indicate that two (2) storage tanks and one (1) drum storage area were removed from the site on January 1, 1991. The specific information for the tanks and drum area is as follows:

Tank 1 - 6,000 GAL aboveground, outdoor, industrial waste - Removed 1/1/91
Tank 2 - 400 GAL aboveground, outdoor, organic solvent - Removed 1/1/91
Tank 3 - 1,875 GAL aboveground, indoor, drum storage area - Removed 1/1/91.

The Suffolk County Department of Health Services (SCDHS) records indicate that two (2) storage tanks and one (1) drum storage area were removed from the site on January 1, 1991. The specific information for the tanks and drum area is as follows:

Tank 1 - 6,000 GAL aboveground, outdoor, industrial waste - Removed 1/1/91
Tank 2 - 400 GAL aboveground, outdoor, organic solvent - Removed 1/1/91
Tank 3 - 1,875 GAL aboveground, indoor, drum storage area - Removed 1/1/91

2.9 Underground & Aboveground Storage Tanks (USTs & ASTs)

Site personnel were interviewed, site conditions reviewed, and research completed to determine whether any active or inactive underground storage tanks (USTs) are present, or ever were present at the subject site.

If found, active USTs must be tested by a qualified testing firm and certified to be in good condition, meeting the API and NFPA Standards for USTs; if deactivated USTs are found, verification must be provided that the abandoned tanks were deactivated in accordance with API or NFPA standards. If verification cannot be provided it is recommended that the UST be removed within API, NFPA, and US EPA guidelines.

During the site inspection, GCI personnel performed a visual search for on site underground storage tanks (USTs), any other storage tanks, as well as any evidence of storage tanks such as fill ports, vent lines or manways.

Inspection:

During the site inspection, GCI personnel did not identify any on-site underground storage tanks (USTs), aboveground storage tanks (ASTs) or any other storage tanks, nor any evidence of storage tanks such as fill ports, vent lines, manways or dispensers.

The New York State Department of Environmental Conservation (NYS DEC) Petroleum Bulk Storage (PBS) database was reviewed for any records of registered storage tanks at the subject site. The NYS DEC PBS database records indicate that two (2) storage tanks and one (1) drum storage area were removed from the site on January 1, 1991. The specific information for the tanks and drum area is as follows:

Tank 1 - 6,000 GAL aboveground, outdoor, industrial waste - Removed 1/1/91

Tank 2 - 400 GAL aboveground, outdoor, organic solvent - Removed 1/1/91

Tank 3 - 1,875 GAL aboveground, indoor, drum storage area - Removed 1/1/91

The Suffolk County Department of Health Services was contacted concerning any records retained by the agency with regard to storage tanks at the subject site. The Suffolk County Department of Health Services records indicate that two (2) storage tanks and one (1) drum storage area were removed from the site on January 1, 1991. The specific information for the tanks and drum area is as follows:

Tank 1 - 6,000 GAL aboveground, outdoor, industrial waste - Removed 1/1/91

Tank 2 - 400 GAL aboveground, outdoor, organic solvent - Removed 1/1/91

Tank 3 - 1,875 GAL aboveground, indoor, drum storage area - Removed 1/1/91

The Town of Brookhaven was contacted concerning any records retained by the agency with regard to storage tanks at the subject site. The Town of Brookhaven records indicated that the site had previously stored waste oil, degreasing solvent, waste acid and trichloroethane, as well as other hazardous chemicals. Please note that the records reviewed from the Town of Brookhaven and the Suffolk County Department of Health Services (SCDHS) were obtained during the performance of a Phase I Environmental Site Assessment dated August 14, 1995 conducted by GCI, Inc.

There were no other records of USTs, ASTs or other storage tanks located at the subject site, nor any sealed and/or removed tanks at the subject site. There was no additional evidence of storage tanks located at the subject site.

2.10 Hazardous Materials Generation, Use & Disposal

- The activities conducted at the facility do entail the generation, use or disposal of hazardous materials. One (1) - 55 gallon drum of hazardous waste chemicals is stored in the research and development lab. According to documents provided, the drum contains waste corrosive liquid, Nos (D002) consisting of hydrochloric and sulfuric acids. The drum is stored in a designated hazardous waste storage cabinet, with good housekeeping practices observed. Approximately fifty (50) gallons of this material is removed and transported by Chemical Pollution Controls Incorporated, 120 South 4th Street, Bayshore, NY, at two month intervals, as part of an ongoing program.
- The facility does store reportable quantities of regulated chemicals on site.
- The facility is not required to submit a SARA Title III Emergency Planning and Community Right-To-Know (EPCRA) Tier II form.
- The facility is not required to submit a SARA Title III Toxic Chemical Release Reporting (TCRR) Form R to the EPA.
- There are enforcement actions; judicial, administrative or negotiated consent orders; notice or demand letters; permit violations; fine proceedings; or other litigation, etc. pending by the state or federal agencies with respect to hazardous material management activities conducted at the facility, noted as follows:

The Suffolk County Department of Health Services (SCDHS) has issued an Order of Consent to Precision Concepts (IW-91-0001 and IW-92-006), charging violation of Article 7 and Article 12 of the Suffolk County Sanitary Code. The SCDHS sampled the site during May, 1988; May, 1990; June, 1990; and November, 1990, charging that the company had discharged hazardous material during these periods causing the contamination of soil, groundwater and private wells located downstream of the site.

The SCDHS filed a notice of Formal Hearing directing that Precision Concepts appear in connection with the violations listed as per the Consent Order - IW-91-0001 and IW-92-006, and further requesting that Precision Concepts submit proposals for performing soil and groundwater sampling; the installation of groundwater monitoring wells; perform on-site chemical inventories, and several other items.

The SCDHS nominated the Precision Concepts site (subject site) to the New York State Superfund program. The site is currently listed by the New York State Department of Environmental Conservation (NYSDEC) as an Inactive Hazardous Waste Disposal (IHWD) site. Based upon the fact that the subject property is listed as an IHWD site, it was determined that a Phase II Subsurface Investigation be conducted in order to determine possible on-site as well as off-site sources of contamination. Please refer to Section 3.0 - Site Inspection / Subsurface Investigation for a summary of events that have taken place at the subject site.

2.11 Solid & Hazardous Waste

- The facility does generate solid or hazardous waste other than refuse. One (1) - 55 gallon drum of hazardous waste chemicals is stored in the research and development laboratory. According to documents provided, the drum contains waste corrosive liquid, Nos (D002) consisting of hydrochloric and sulfuric acids.
- The refuse generated on site is placed in a holding/dumpster area located on-site. The waste is then disposed of by a municipal carter. During the inspection, no suspected hazardous waste was contained in the solid waste holding/dumpster area.
- The facility is required to maintain RCRA Hazardous Waste Permits.
- There are no analytical results regarding solid and/or hazardous wastes associated with the facility.
- There are hazardous waste transporters associated with and/or doing business with the site. Approximately fifty (50) gallons of the waste corrosive liquid material is removed and transported by Chemical Pollution Controls Incorporated, 120 South 4th Street, Bayshore, NY, at two (2) month intervals, as part of an ongoing program. The facility does not store any hazardous wastes for disposal on site for longer than 90 days.
- There are enforcement actions; judicial, administrative or negotiated consent orders; notice or demand letters; permit violations; fine proceedings; or other litigation, etc. pending or likely to be initiated by the state or federal agencies with respect to solid and/or hazardous waste management activities conducted at the facility.

2.12 Asbestos

GCI personnel performed a visual scan of accessible common areas for suspected asbestos containing material (ACM). Where a suspected asbestos material was observed, GCI determined the condition of the material and estimated the amount of suspect material.

The US EPA designated material with more than 1% asbestos as an Asbestos Containing Material (ACM). Where asbestos material is determined to be "Friable" (capable of being crushed by hand pressure and having a high potential to release airborne fibers), it is the recommendation of EPA that strong response action be taken. Such actions may take the form of removal, encapsulating, repair, enclosure and the implementation of an O & M (operations and maintenance) program. The response action is determined depending on the severity and nature of the individual situation.

Inspection:

Dropped acoustic ceiling tile was observed throughout the office areas of the subject building during the inspection. Based upon the type of ceiling tile, as well as the date of building construction and the renovations which have taken place over the course of the building's life, the presence of asbestos is not suspected.

Conclusion:

The site is acceptable for asbestos. There is no further action required at this time.

2.13 Poly-Chlorinated Biphenyls (PCBs)

Transformers:

There are three (3) types of transformers defined in the PCB regulations:

- a. **PCB Transformer:** Any transformer containing 500 parts per million (ppm) PCBs or greater.
- b. **Non-PCB Transformer:** Any transformer containing less than 50 ppm PCBs.
- c. **PCB-Contaminated Transformer:** Any transformer containing 50-499 ppm PCBs. These transformers are not subject to parts of the regulations such as marking requirements or, if drained of liquid, to the disposal requirements. Any liquid drained from these transformers must be stored and disposed of in accordance with the regulations.

Transformers often contain dielectric liquid for the primary purpose of increasing resistance of the unit to arcing and acting as a heat transfer media, helping to cool the coils. The majority of transformers are filled with mineral oil, but a small percentage of these liquid-filled transformers contain PCB Askarel coolant liquid. The term "Askarel" is a generic term used for a group of nonflammable synthetic chlorinated hydrocarbons. All types of Askarels sold prior to 1979 contained 60 to 100 percent PCBs. Askarel transformers were manufactured in a variety of sizes, i.e. 3 to 3,000 gallons of PCB liquid, and are generally used in hazardous locations where flammability is of concern. PCB transformers are no longer produced because of EPA's ban on the manufacture of new equipment containing PCBs.

Inspection:

At the time of the inspection, there was one (1) ground based transformer located on-site, specifically at the northwest corner of the subject building. There was no evidence of staining due to leaking material in the vicinity of the transformer. In addition, it was reported by LILCO that there is no use of PCB oil in their transformers.

Conclusion:

The subject property is acceptable for PCBs in transformers. There is no further action required at this time.

Fluorescent Lighting:

There is fluorescent lighting within the subject building. However, based on the renovations that have taken place in the building, the presence of PCBs is not suspected.

Conclusion:

The subject site is acceptable for PCBs in fluorescent lighting. There is no further work required at this time.

2.14 Radon

Radon is a heavy colorless, odorless, radioactive gas formed by the radioactive decay of radium. Radon is associated with specific geologic formations which contain granite, uranium minerals, certain shales and phosphate related minerals. Radon, being a gas, can migrate to and accumulate in confined spaces such as building basements. Continued exposure of radon gas has been associated with increased lung cancer risk and possible genetic damage.

The US EPA and the Centers for Disease Control have used a continuous exposure level of 4.0 picocuries per Liter (pCi/L) or a 0.02 working level as a guidance level at which the US EPA recommends further testing and or remedial action to lower the concentrations.

The New York State Department of Health (NYS DOH), Bureau of Radiation Protection monitors radon levels throughout the state. There were 317 recorded test points located in Suffolk County and the average radon level was 1.6 Pci/L. The average radon level in a living area was 0.670 pCi/L and 100 % of these test points were less than 4 pCi/L. The average radon level in a basement area was 1.010 pCi/L and 98 % of these test points were less than 4 pCi/L. The chart details the full findings of the radon test of the NYS DOH.

NYS DOH RADON INFORMATION - SUFFOLK COUNTY

AREA	AVERAGE ACTIVITY	% <4 pCi/L	% 4-20 pCi/L	% >20 pCi/L
Living Area	0.670 pCi/L	100 %	0 %	0 %
Basement	1.010 pCi/L	98 %	2 %	0 %

Conclusion:

Given this information, radon is not considered a significant environmental concern within the subject site. In addition, the subject site is not residential in nature, nor are there living spaces located below grade. The subject site is acceptable for radon. There is no further action required at this time.

2.15 Lead-Based Paint (LBP)

The subject site is improved by a commercial building. Being that the subject property was not residential in nature, the potential for lead-based paint (LBP) was not required to be scrutinized. Therefore, an on-site testing of painted surfaces for the presence of lead-based paint (LBP) was not performed.

3.0 SITE INSPECTION / TARGETED SUBSURFACE INVESTIGATION

The subject property has a history of hazardous chemical usage, as well as a history of environmental problems. The following is a partial chronological listing of the major chain of events as recorded by the SCDHS:

- May 1988 • The SCDHS sampled a leaching pool located on the east side of the subject building, occupied at the time by Precision Concepts. The SCDHS found contamination of 1,200 parts per billion (ppb) of 1,1,1 Trichloroethane (TCA). Please note that the current action level for TCA listed by the Suffolk County Department of Health Services (SCDHS) is 1,600 ppb.

- March 1990 • Brookhaven National Laboratory (BNL) which is located north of the subject site, and north of the Long Island Expressway informed the SCDHS that traces of 1,1,1 Trichloroethane (TCA) and Dichloroethene (DCA) were detected in a test well along their southern property line.

- May 1990 • The SCDHS sampled the industrial leaching pool located on the east side of the subject building, occupied at the time by Precision Concepts. The SCDHS found no organic contamination at a detection limit of 40 ppb.

- June 1990 • The SCDHS Public Health Laboratory subsequently performed a sampling survey of approximately ninety (90) homes located south of the expressway and south of the subject site (occupied by Precision Concepts), where private drinking water wells were sampled for trace organics. Of the ninety (90) private wells tested, five (5) wells were found to be contaminated with TCA and DCA.

- May - Oct. 1990 • The SCDHS Bureau of Groundwater Resources installed twenty (20) groundwater monitoring wells in order to determine groundwater flow and origin of the contamination. The testing of wells located along the northern side of the Long Island Expressway (L.I.E) south service road (adjacent/north of the subject site) indicated low levels of contamination (<15 ppb) at 30 to 110 feet below the water table. Testing of wells located along Precision Drive (AKA Natcon Drive) which is immediately

downgradient/south of the subject site, indicated high levels of TCA contamination (3-9300 ppb) at 10 to 40 feet below the water table. The SCDHS estimated through additional monitoring wells that a plume of contamination approximately 300 feet wide by 3100 feet long is emanating from the area occupied by Precision Concepts.

- Jan. - Feb. 1991 • The SCDHS issued an Order of Consent to Precision Concepts (IW-91-0001), charging violation of Article 7 and Article 12 of the Suffolk County Sanitary Code. The SCDHS sampled the site during May, 1988; May, 1990; June, 1990; and November, 1990, charging that the company had discharged hazardous material during these periods causing the contamination of soil, groundwater and private wells located downstream of the site.

- July 1991 • The SCDHS sampled the two (2) storm drains (DW-1 and DW-2) located in the rear loading dock area, as well as sampling the on-site sanitary cesspool (C-1) located near the northwest corner of the subject building. The liquid samples were analyzed for VOCs and metals.

- August 1991 • Correspondence from Mr. Dennis Gobbi of the SCDHS informed Precision Concepts that the analytical results for the sample collected from C-1 revealed that the state and county discharge standards had been exceeded. There were no exceedances noted in either of the samples from drywells DW-1 and DW-2.

- March 1992 • The SCDHS filed a notice of Formal Hearing directing that Precision Concepts appear in connection with the violations listed as per the Consent Order - IW-92-006, and further requesting that Precision Concepts submit proposals for performing soil and groundwater sampling; the installation of groundwater monitoring wells; perform on-site chemical inventories, and several other items.

- June 1992 • The pump out and disposal of the contents of an 8,000 gallon septic system (C-1) was approved by County of Suffolk Department of Public Works and immediately carried out.

- Sept. 1992 • A Soil and Groundwater Investigation Workplan (SGIW) was prepared for Precision Concepts by Mr. Richard D. Galli, P.E., P.C., Greenlawn, New York.
- Jan. 1993 • The SCDHS rejected (SGIW) prepared by Mr. Galli and later responded by asking for a full site assessment as per NYS DEC protocols for RI/FS, or the equivalency of a State Superfund Preliminary Site Assessment (PSA).
- Aug. - July 1993 • A facility and Tank Closure Plan for Precision Concepts was approved by the SCDHS and subsequently carried out by Life Support Sciences Inc., Greenlawn, New York, which included the cleaning and removal of one (1) 6,000 gallon AST and one (1) 500 gallon degreasing tank formerly containing 1,1,1 trichloroethylene.
- Aug. - July 1993 • The SCDHS was considering the nomination of the Precision Concepts site (subject site) to the New York State Superfund program.
- Currently • At this time, the subject site is listed by the New York State Department of Environmental Conservation (NYSDEC) as a Inactive Hazardous Waste Disposal (IHWD) Site.

Based upon the site history and the fact that the site is listed a State Inactive Hazardous Waste Disposal Site (IHWD), as well as the presence of a National Priority List (NPL) site (Brookhaven National Laboratory) being located directly upgradient from the subject property, it was determined that a Phase II Subsurface Investigation be conducted at the subject site in order to determine the soil and groundwater quality in the vicinity of the subject property.

The investigation consisted of installing six (6) soil borings in strategic locations with respect to possible on-site and off-site contamination sources. Please note that the soil borings were conducted at the site on three (3) separate occasions: May 16, 1996, and January 24 and 31, 1997. In addition, soil samples were collected from drywells DW-1 and DW-2 on May 16, 1996, July 31, 1996 and January 24, 1997, soil samples were collected from drywells DW-3 and DW-4 on January 24, 1997 only. The soil borings were installed using a van-mounted Geo-Probe drilling rig. The soil borings were installed for the purpose of obtaining groundwater and soil

samples, in order to document the subsurface conditions at the site. Soil samples were collected at varying depths in each of the borings. Groundwater samples were collected from the soil/water interface level which was encountered at approximately forty-four (44) feet below land surface (bls). The four (4) drywells (DW-1 through DW-4) located in the rear of the site were sampled and submitted for laboratory analysis. The soil samples obtained from the drywells were collected using a decontaminated stainless steel hand-auger. In addition, a collection pit located in the interior of the warehouse area was remediated, at the request of the SCDHS. The location of the soil borings, drywells and collection pit are included on Figure 6.0 - Site Plan.

The collected soil samples from the soil borings and drywells were screened with an HNU photoionization detector (PID), which is capable of detecting volatile organic compounds (VOCs). In addition, the samples were visually examined in an attempt to identify any possible signs of contamination. A summary of the lithology encountered and the PID readings are summarized in Table 1.

A total of five (5) groundwater samples and five (5) soil samples were submitted for laboratory analysis. The groundwater samples obtained from soil borings SB-1, SB-2 and SB-4 were submitted for laboratory analysis of volatile organic compounds using EPA Method 624 as well as for the 8 RCRA Metals, with the exception of the groundwater sample from soil boring SB-2, which was submitted for analysis of the 8 RCRA Metals only. The groundwater samples collected from soil borings SB-5 and SB-6 were analyzed for VOCs and 13 heavy metals as per the protocol specified in the Suffolk County Department of Health Services (SCDHS) "Guidelines for Minimal Equipment and Procedures for Pumping Out Industrial Waste Pools". The soil samples obtained from the drywells and the collection pit were analyzed for VOCs and 13 heavy metals as per the protocol specified in the Suffolk County Department of Health Services (SCDHS) "Guidelines for Minimal Equipment and Procedures for Pumping Out Industrial Waste Pools", with the exception of the sample obtained from drywell DW-1 on July 31, 1996, which was analyzed for the 13 Metals only. The findings of the subsurface investigation are summarized below.

TABLE 1

SOIL BORING LOGS

Soil Boring	Location	Depth (below grade)	Lithology
SB-1	Northwest corner of subject property, approximately ten (10) feet south of the LIE service road.	40-43 ft.	Tan, coarse to medium grain quartz sand with pebbles. No odor or staining noticed. PID = 2.0 ppm
SB-2	Northeast corner of subject property, approximately ten (10) feet south of the LIE service road.	NA	No soil sample collected from SB-2.
SB-3	South side of subject property, approximately 25 feet east of west entrance.	20-22 ft.	Medium to fine grain quartz rich sand, trace pebbles. No odor or staining noticed. PID = 1.5 ppm.
SB-3	South side of subject property, approximately 25 feet east of west entrance.	30-32 ft.	Medium to fine grain quartz rich sand, trace pebbles. No odor or staining noticed. PID = 2.0 ppm.
SB-3	South side of subject property, approximately 25 feet east of west entrance.	39-41 ft.	Medium to fine grain quartz rich sand, trace pebbles. No odor or staining.
SB-4	South side of subject property, approximately 10 feet east of east service entrance.	18-20 ft.	Rusty-tan fine grain quartz rich sand. No odor or staining. PID = 0.5 ppm.
SB-5	Approximately 5 feet south of drywell DW-3.	NA	No soil sample collected.
SB-6	Approximately 5 feet south of drywell DW-4.	20-22 ft.	Rusty-tan fine grain quartz sand. No odor or staining noticed. PID = 0.6 ppm.

3.1 Groundwater Characterization

A total of six (6) soil borings were conducted in strategic locations with respect to possible on-site and off-site contamination sources. Please note that the soil borings were conducted at the site on three (3) separate occasions: May 16, 1996, and January 24 and 31, 1997. The soil borings were installed for the purpose of obtaining groundwater samples for laboratory analysis. Groundwater samples were collected at the soil/water interface level which was encountered at approximately forty-four (44) feet bls. The groundwater samples collected from soil borings SB-1, SB-2, SB-4, SB-5 and SB-6 were submitted for laboratory analysis. The groundwater samples obtained from soil borings SB-1, SB-2 and SB-4 were submitted for laboratory analysis of volatile organic compounds using EPA Method 624 as well as for the 8 RCRA Metals, with the exception of the groundwater sample from soil boring SB-2 which was submitted for analysis of the 8 RCRA Metals only. The groundwater samples collected from soil borings SB-5 and SB-6 were analyzed for VOCs and 13 Metals as per the protocol specified in the Suffolk County Department of Health Services (SCDHS) "Guidelines for Minimal Equipment and Procedures for Pumping Out Industrial Waste Pools". The analytical results for the groundwater samples were compared to the values set forth by the New York State Department of Environmental Conservation Water Quality Regulations.

The analytical results indicated that there were no detectable concentrations of volatile organic compounds (VOCs) present in any of the groundwater samples. The metals analysis revealed that there are elevated levels of metals present in both the upgradient (SB-1 and SB-2) and the downgradient (SB-4, SB-5 and SB-6) groundwater samples. Based upon a comparison of the analytical data, it was determined that there is a general decrease in the contaminant concentrations as moving downgradient (south) across the subject site. Although, the analytical results for the groundwater sample from soil boring SB-5 indicated an increase in contaminant concentration. It is believed that the groundwater analytical results for SB-5 are indicative of a "hot spot" in a contaminant plume migrating across the subject site, and are not related to a point source of contaminant discharge on the subject site. The laboratory analytical results for the groundwater samples are summarized below in Table 2, Table 3 and Table 4.

TABLE 2**GROUNDWATER ANALYTICAL RESULTS
VOLATILE ORGANIC COMPOUNDS (VOCs)
EPA METHOD 624**

ANALYTICAL PARAMETERS	*NYSDEC Groundwater Standards	SB-1	SB-4
Benzene	0.7	<5	<5
Bromodichloromethane	50	<5	<5
Bromoform	50	<5	<5
Bromomethane	5	<5	<5
Carbon Tetrachloride	5	<5	<5
Chlorobenzene	5	<5	<5
Chloroethane	5	<5	<5
2-Chloroethylvinyl Ether	7	<5	<5
Chloroform	5	<5	<5
Chloromethane	5	<5	<5
Dibromochloromethane	5	<5	<5
1,2-Dichlorobenzene	5	<5	<5
1,3-Dichlorobenzene	5	<5	<5
1,4-Dichlorobenzene	5	<5	<5
1,1-Dichloroethane	5	<5	<5
1,2-Dichloroethane	5	<5	<5
1,1-Dichloroethene	5	<5	<5
trans-1,2-Dichloroethene	5	<5	<5
1,2-Dichloropropane	5	<5	<5

ANALYTICAL PARAMETERS	*NYSDEC Groundwater Standards	SB-1	SB-4
cis-1,3-Dichloropropene	5	<5	<5
trans-1,2-Dichloropropene	5	<5	<5
Ethylbenzene	5	<5	<5
Methylene Chloride	5	<5	<5
1,1,1,2-Tetrachloroethane	5	<5	<5
Tetrachloroethene	5	<5	<5
Toluene	5	<5	<5
1,1,1-Trichloroethane	5	<5	<5
1,1,2-Trichloroethane	5	<5	<5
Trichloroethene	5	<5	<5
Trichlorofluoromethane	5	<5	<5
Vinyl Chloride	2	<5	<5
Xylenes (Total)	15	<15	<15

Notes: 1. All results in ug/L (ppb) :

2. * = Results are published in the New York State Department of Conservation Water Quality Regulations.

TABLE 3

GROUNDWATER QUALITY
VOLATILE ORGANIC COMPOUNDS (VOCs)
SCDHS PROTOCOL

ANALYTICAL PARAMETERS	*NYSDEC Groundwater Standards	SB-5	SB-6
Benzene	0.5	<5	<5
Bromodichloromethane	NL	<5	<5
Bromoform	50	<5	<5
Bromomethane	5	<5	<5
Carbon Tetrachloride	5	<5	<5
Chlorobenzene	5	<5	<5
Chloroethane	50	<5	<5
2-Chloroethylvinylether	NL	<5	<5
Chloroform	7	<5	<5
Chloromethane	NL	<5	<5
Dibromochloromethane	50	<5	<5
1,2-Dichlorobenzene	5	<5	<5
1,3-Dichlorobenzene	5	<5	<5
1,4-Dichlorobenzene	5	<5	<5
1,1-Dichloroethane	5	<5	<5
1,2-Dichloroethane	5	<5	<5
trans-1,2-Dichloroethene	5	<5	<5
1,2-Dichloropropane	5	<5	<5
cis-1,3-Dichloropropene	NL	<5	<5
trans-1,3-Dichloropropene	5	<5	<5

ANALYTICAL PARAMETERS	*NYSDEC Groundwater Standards	SB-5	SB-6
Ethylbenzene	5	<5	<5
Methylene Chloride	NL	<5	<5
1,1,1,2-Tetrachloroethane	5	<5	<5
Tetrachloroethene	NL	<5	<5
Toluene	5	<5	<5
1,1,1-Trichloroethane	5	<5	<5
1,1,2-Trichloroethene	5	<5	<5
Trichloroethene	NL	<5	<5
Trichlorofluoromethane	5	<5	<5
Vinyl Chloride	2	<5	<5
Dichlorofluoromethane	NL	<5	<5
2,2-Dichloropropane	NL	<5	<5
cis-1,2-Dichloroethene	NL	<5	<5
Bromochloromethane	5	<5	<5
1,1-Dichloropropene	5	<5	<5
Dibromomethane	NL	<5	<5
Tetrachloroethylene	5	<5	<5
1,3-Dichloropropane	5	<5	<5
1,2-Dibromoethane	5	<5	<5
Styrene	NL	<5	<5
Isopropylbenzene	NL	<5	<5
Bromobenzene	5	<5	<5
1,1,2,2-Tetrachloroethane	5	<5	<5
1,2,3-Trichloropropane	5	<5	<5
n-Propylbenzene	5	<5	<5

ANALYTICAL PARAMETERS	*NYSDEC Groundwater Standards	SB-5	SB-6
2-Chlorotoluene	NL	<5	<5
4-Chlorotoluene	NL	<5	<5
1,3,5-Trimethylbenzene	NL	<5	<5
tert-Butylbenzene	5	<5	<5
1,2,4-Trimethylbenzene	NL	<5	<5
sec-Butylbenzene	5	<5	<5
P-Isopropyltoluene	NL	<5	<5
n-Butylbenzene	5	<5	<5
1,2-Dibromo-3-Chloropropane	NL	<5	<5
1,2,4-Trichlorobenzene	NL	<5	<5
Hexachlorobutadiene	NL	<5	<5
Naphthalene	50	<5	<5
1,2,3-Trichlorobenzene	NL	<5	<5
Freon 113	NL	<5	<5
p-Diethylbenzene	NL	<5	<5
p-Ethyltoluene	NL	<5	<5
1,2,4,5-Tetramethylbenzene	NL	<5	<5
Acetone	50	<5	<5
Chlorodifluoromethane	NL	<5	<5
Methyl Ethyl Ketone	35	<5	<5
Methyl Isobutyl Ketone	50	<5	<5
Xylene (Total)	5	<15	<15

- Notes: 1. Results are in ug/L (ppb).
2. NL = No Value Listed by NYSDEC.

TABLE 4

**GROUNDWATER QUALITY DATA
METALS ANALYSIS**

ANALYTICAL PARAMETERS	*NYSDEC Groundwater Standard	SB-1	SB-2	SB-4	SB-5	SB-6
Arsenic	0.025	<0.05	<0.05	<0.05	<0.05	<0.05
Barium	1.00	1.03	2.65	<1.00	2.23	<1.00
Cadmium	0.005	<0.05	<0.05	<0.05	<0.05	<0.05
Chromium	0.05	3.67	13.0	10.20	16.2	5.37
Lead	0.025	0.30	0.82	0.27	2.55	0.24
Mercury	0.002	<0.020	<0.020	<0.020	<0.020	<0.020
Selenium	0.01	<0.05	<0.05	<0.05	1.15	0.41
Silver	0.05	NA	NA	NA	<0.05	<0.05
Copper	0.20	NA	NA	NA	8.79	1.35
Nickel	NL	NA	NA	NA	4.45	1.05
Iron	0.30	NA	NA	NA	3,592	669
Manganese	0.30	NA	NA	NA	26.2	9.99
Zinc	0.30	NA	NA	NA	9.71	1.31

- Notes:
1. All results in mg/L (ppm)
 2. * =Results are published in the New York State Department of Conservation Water Quality Regulations.
 3. NA = Parameter not analyzed for.

3.2 Drywell Characterization

There are two (2) storm water drywells (DW-1 and DW-2) located in the rear (south) loading dock area, as well as two (2) buried drywells (DW-3 and DW-4) located near the loading dock area. A review of the records maintained by the Suffolk County Department of Health Services (SCDHS) indicated that the drywells (DW-1 and DW-2) were sampled on July 1, 1991 by the SCDHS. The analytical results indicated that there were no contaminants present at levels exceeding the state or county discharge levels. However, based upon the site history, as well as the presence of a "Y" connection on the interior roof drain, which discharges to drywells DW-3 and DW-4, it was determined that an investigation of the four (4) drywells be conducted.

Representative soil samples were collected from drywells DW-1 and DW-2 on May 17, 1996, July 31, 1996 (DW-1 only), and January 28, 1997. Soil samples were collected from drywells DW-3 and DW-4 on January 28, 1997. The samples were collected for the purpose of documenting the quality of the material contained within the drywells. A clean steel hand auger was used to collect the soil samples. The soil samples were field screened with a HNU photoionization detector (PID), which is capable of detecting volatile organic compounds (VOCs). The results of the PID screening indicated that there were no detectable levels of VOCs present. The samples were also visually inspected for possible signs of contamination. The soil samples obtained from DW-1 and DW-2 exhibited some discoloration.

All of the soil samples collected from the drywells were submitted for laboratory analysis. The soil sludge samples were stored on ice after being collected. The samples were then delivered to American Analytical Laboratories, a New York State certified laboratory located in Farmingdale, New York. The samples were analyzed for volatile organic compounds (VOCs) and also for the 13 metals as specified in the Suffolk County Department of Health Services (SCDHS) "Guidelines for Minimal Equipment and Procedures for Pumping Out Industrial Waste Pools". Please note that the sample obtained from DW-1 on July 31, 1996, was submitted for analysis of the 13 metals only.

The analytical results for the soil samples obtained from the drywells were compared to the Action Levels listed in the Suffolk County Department of Health Services (SCDHS) "Article 12 - Standard Operating Procedure No. 9-95 - Pumpout and Soil Cleanup Criteria". The analytical results for drywells DW-1 and DW-2 indicated that there were no detectable levels of VOCs present in any of the samples collected during the three (3) sampling rounds. However, the

metals analysis for drywells DW-1 and DW-2 revealed conflicting results over the three (3) sampling rounds. The analytical results for the samples obtained on May 17, 1996, indicated that there were no metals detected at levels above their respective regulatory action levels, with the exception of copper, which was detected at a concentration of 1,529 ppm in the sample from DW-1. Therefore, on July 31, 1996, another soil sample was obtained from drywell DW-1 in order to confirm the previous laboratory analytical results. The sample was analyzed for the 13 metals only. The analytical results indicated that there were no metals present at concentrations greater than their respective regulatory limits and copper was detected at a concentration of only 15.4 ppm. On January 28, 1997, representative soil samples were collected from drywells DW-1 through DW-4. The analytical results for drywells DW-1 and DW-2 indicated that there were on detectable levels of VOCs present in the samples. The results for the metals analysis for DW-1 and DW-2 revealed that there were no metals detected at levels above their respective regulatory action levels, with the exception of copper, which was detected at 1,114 ppm, and chromes at 149 ppm in DW-2. The analytical results for drywells DW-3 and DW-4 indicated that there were on detectable levels of VOCs present in the samples. The results for the metals analysis for DW-3 and DW-4 revealed that there were no metals detected at levels above their respective regulatory action levels. Based upon the varied results for the metals analysis on drywells DW-1 and DW-2, it appears that there may have been a laboratory error which has lead to the ambiguity of the results. However, Please note that the review of laboratory analytical results for drywells and cesspools, as well as any determination of contamination is made by the Suffolk County Department of Health Services (SCDHS). The review and determination is made on a case by case basis. The results of the drywell analysis is summarized in Table 3 and Table 4.

TABLE 5

SOIL QUALITY DATA
SCDHS PROTOCOL

ANALYTICAL PARAMETERS	DW-1 5/17/96	DW-1 1/28/97	DW-2 5/17/96	DW-2 1/28/97	DW-3	DW-4
Benzene	<5	<5	<5	<5	<5	<5
Bromodichloromethane	<5	<5	<5	<5	<5	<5
Bromoform	<5	<5	<5	<5	<5	<5
Bromomethane	<5	<5	<5	<5	<5	<5
Carbon Tetrachloride	<5	<5	<5	<5	<5	<5
Chlorobenzene	<5	<5	<5	<5	<5	<5
Chloroethane	<5	<5	<5	<5	<5	<5
2-Chloroethylvinylether	<5	<5	<5	<5	<5	<5
Chloroform	<5	<5	<5	<5	<5	<5
Chloromethane	<5	<5	<5	<5	<5	<5
Dibromochloromethane	<5	<5	<5	<5	<5	<5
1,2-Dichlorobenzene	<5	<5	<5	<5	<5	<5
1,3-Dichlorobenzene	<5	<5	<5	<5	<5	<5
1,4-Dichlorobenzene	<5	<5	<5	<5	<5	<5
1,1-Dichloroethane	<5	<5	<5	<5	<5	<5
1,2-Dichloroethane	<5	<5	<5	<5	<5	<5
1,1-Dichloroethene	<5	<5	<5	<5	<5	<5
trans-1,2-Dichloroethene	<5	<5	<5	<5	<5	<5
1,2-Dichloropropane	<5	<5	<5	<5	<5	<5
cis-1,3-Dichloropropene	<5	<5	<5	<5	<5	<5
trans-1,3-Dichloropropene	<5	<5	<5	<5	<5	<5

ANALYTICAL PARAMETERS	DW-1 5/17/96	DW-1 1/28/97	DW-2 5/17/96	DW-2 1/28/97	DW-3	DW-4
Ethylbenzene	<5	<5	<5	<5	<5	<5
Methylene Chloride	<5	<5	<5	<5	<5	<5
1,1,1,2-Tetrachloroethane	<5	<5	<5	<5	<5	<5
Tetrachloroethene	<5	<5	<5	<5	<5	<5
Toluene	<5	<5	<5	<5	<5	<5
1,1,1-Trichloroethane	<5	<5	<5	<5	<5	<5
1,1,2-Trichloroethene	<5	<5	<5	<5	<5	<5
Trichloroethene	<5	<5	<5	<5	<5	<5
Trichlorofluoromethane	<5	<5	<5	<5	<5	<5
Vinyl Chloride	<5	<5	<5	<5	<5	<5
Dichlorofluoromethane	<5	<5	<5	<5	<5	<5
2,2-Dichloropropane	<5	<5	<5	<5	<5	<5
cis-1,2-Dichloroethene	<5	<5	<5	<5	<5	<5
Bromochloromethane	<5	<5	<5	<5	<5	<5
1,1-Dichloropropene	<5	<5	<5	<5	<5	<5
Dibromomethane	<5	<5	<5	<5	<5	<5
Tert-Butyl Methyl Ether (MTBE)	<5	<5	<5	<5	<5	<5
1,3-Dichloropropane	<5	<5	<5	<5	<5	<5
1,2-Dibromoethane	<5	<5	<5	<5	<5	<5
Styrene	<5	<5	<5	<5	<5	<5
Isopropylbenzene	<5	<5	<5	<5	<5	<5
Bromobenzene	<5	<5	<5	<5	<5	<5
1,1,2,2-Tetrachloroethane	<5	<5	<5	<5	<5	<5
1,2,3-Trichloropropane	<5	<5	<5	<5	<5	<5
n-Propylbenzene	<5	<5	<5	<5	<5	<5

ANALYTICAL PARAMETERS	DW-1 5/17/96	DW-1 1/28/97	DW-2 5/17/96	DW-2 1/28/97	DW-3	DW-4
2-Chlorotoluene	<5	<5	<5	<5	<5	<5
4-Chlorotoluene	<5	<5	<5	<5	<5	<5
1,3,5-Trimethylbenzene	<5	<5	<5	<5	<5	<5
tert-Butylbenzene	<5	<5	<5	<5	<5	<5
1,2,4-Trimethylbenzene	<5	<5	<5	<5	<5	<5
sec-Butylbenzene	<5	<5	<5	<5	<5	<5
P-Isopropyltoluene	<5	<5	<5	<5	<5	<5
n-Butylbenzene	<5	<5	<5	<5	<5	<5
1,2-Dibromo-3-Chloropropane	<5	<5	<5	<5	<5	<5
1,2,4-Trichlorobenzene	<5	<5	<5	<5	<5	<5
Hexachlorobutadiene	<5	<5	<5	<5	<5	<5
Naphthalene	<5	<5	<5	<5	<5	<5
1,2,3-Trichlorobenzene	<5	<5	<5	<5	<5	<5
Freon 113	<5	<5	<5	<5	<5	<5
p-Diethylbenzene	<5	<5	<5	<5	<5	<5
p-Ethyltoluene	<5	<5	<5	<5	<5	<5
1,2,4,5-Tetramethylbenzene	<5	<5	<5	<5	<5	<5
Acetone	<5	<5	<5	<5	<5	<5
Dichlorodifluoromethane	<5	<5	<5	<5	<5	<5
Methyl Ethyl Ketone	<5	<5	<5	<5	<5	<5
Methyl Isobutyl Ketone	<5	<5	<5	<5	<5	<5
Xylene (Total)	<15	<15	<15	<15	<15	<15

Notes: 1. Results are in ug/Kg (ppb).

TABLE 6

SOIL QUALITY DATA

13 RCRA METALS
SCDHS PROTOCOL

ANALYTICAL PARAMETERS	SCDHS Action Levels*	DW-1 5/17/96	DW-1 7/31/96	DW-1 1/28/97	DW-2 5/17/96	DW-2 1/28/97	DW-3 1/28/97	DW-4 1/28/97
Silver	100	<1.65	<1.65	<1.65	<1.65	14.9	<1.65	<1.65
Barium	NL	6.39	5.41	5.06	8.87	16.6	6.75	3.69
Cadmium	10	1.81	<1.65	<1.65	<1.65	<1.65	<1.65	<1.65
Copper	500	1,529	15.4	13.6	<1.65	1,114	7.75	2.14
Nickel	1,000	8.70	5.89	2.08	3.31	65.3	2.46	<1.65
Selenium	NL	<1.65	2.40	<1.65	<1.65	<1.65	<1.65	<1.65
Zinc	NL	4,378	29.6	1,664	4,373	7,085	3,380	1,767
Iron	NL	39.1	5,081	20.0	81.0	44.4	32.4	43.0
Manganese	NL	14.5	45.3	3.48	4.87	47.4	28.3	7.62
Lead	400	<0.020	3.95	<0.020	<0.020	<0.020	<0.020	<0.020
Mercury	2	<6.60	<0.020	<6.60	<6.60	<6.60	<6.60	<6.60
Arsenic	25	16.4	<6.60	1.83	3.41	18.4	3.74	2.82
Chromium	100	36.7	5.57	22.1	11.5	149	22.2	6.28

- Notes: 1. All results are in mg/Kg (ppm).
2. * Values listed in the Suffolk County Department of Health Services (SCDHS) "Article 12 - Standard Operating Procedure No. 9-95 Pumpout and Soil Cleanup Criteria".
3. NL - No value listed by the SCDHS.

3.2 Collection Pit Remediation

There is a collection pit located along the east side of the subject building in the warehouse area. Please note that the collection pit was not observed during the performance of the original Phase I Environmental Site Assessment due to the fact that there were multiple pallets obscuring the view of the pit. The pit is constructed of concrete block and measures approximately six (6) feet long, three (3) feet wide and four (4) feet deep. The SCDHS collected a sample of the soil contained in the pit. The soil was analyzed for VOCs and the 13 metals as specified in the Suffolk County Department of Health Services (SCDHS) "Guidelines for Minimal Equipment and Procedures for Pumping Out Industrial Waste Pools". The SCDHS indicated that there was elevated levels of metals present in the sample, and therefore it was decided that the collection pit would need to be remediated. On July 17, 1996, approximately two (2) yards of soil were removed from the collection pit. The soil was removed manually, as there was insufficient room available to utilize a backhoe or other heavy equipment in the area. Upon removal of the contaminated soil an end-point sample was collected and submitted for laboratory analysis as per the requirements of the SCDHS. The analytical results indicated that there were no detectable VOCs present in the sample. The metals analysis indicated that there low levels of metals present, all at concentrations significantly lower than their respective regulatory limits. Upon approval from the SCDHS indicating that there would be no further work required, the pit was backfilled with clean sand and completed at grade with concrete, thereby eliminating the possibility for future discharges into the collection pit. The analytical results for the end-point sample are summarized in Table 7 and Table 8.

TABLE 7

SOIL QUALITY DATA
COLLECTION PIT
SCDHS PROTOCOL

ANALYTICAL PARAMETERS	COLLECTION PIT
Benzene	<5
Bromodichloromethane	<5
Bromoform	<5
Bromomethane	<5
Carbon Tetrachloride	<5
Chlorobenzene	<5
Chloroethane	<5
2-Chloroethylvinylether	<5
Chloroform	<5
Chloromethane	<5
Dibromochloromethane	<5
1,2-Dichlorobenzene	<5
1,3-Dichlorobenzene	<5
1,4-Dichlorobenzene	<5
1,1-Dichloroethane	<5
1,2-Dichloroethane	<5
1,1-Dichloroethene	<5
trans-1,2-Dichloroethene	<5
1,2-Dichloropropane	<5
cis-1,3-Dichloropropene	<5
trans-1,3-Dichloropropene	<5

ANALYTICAL PARAMETERS	COLLECTION PIT
Ethylbenzene	<5
Methylene Chloride	<5
1,1,1,2-Tetrachloroethane	<5
Tetrachloroethene	<5
Toluene	<5
1,1,1-Trichloroethane	<5
1,1,2-Trichloroethene	<5
Trichloroethene	<5
Trichlorofluoromethane	<5
Vinyl Chloride	<5
Dichlorofluoromethane	<5
2,2-Dichloropropane	<5
cis-1,2-Dichloroethene	<5
Bromochloromethane	<5
1,1-Dichloropropene	<5
Dibromomethane	<5
Tert-Butyl Methyl Ether (MTBE)	<5
1,3-Dichloropropane	<5
1,2-Dibromoethane	<5
Styrene	<5
Isopropylbenzene	<5
Bromobenzene	<5
1,1,2,2-Tetrachloroethane	<5
1,2,3-Trichloropropane	<5
n-Propylbenzene	<5

ANALYTICAL PARAMETERS	COLLECTION PIT
2-Chlorotoluene	<5
4-Chlorotoluene	<5
1,3,5-Trimethylbenzene	<5
tert-Butylbenzene	<5
1,2,4-Trimethylbenzene	<5
sec-Butylbenzene	<5
P-Isopropyltoluene	<5
n-Butylbenzene	<5
1,2-Dibromo-3-Chloropropane	<5
1,2,4-Trichlorobenzene	<5
Hexachlorobutadiene	<5
Naphthalene	<5
1,2,3-Trichlorobenzene	<5
Freon 113	<5
p-Diethylbenzene	<5
p-Ethyltoluene	<5
1,2,4,5-Tetramethylbenzene	<5
Acetone	<5
Dichlorodifluoromethane	<5
Methyl Ethyl Ketone	<5
Methyl Isobutyl Ketone	<5
Xylene (Total)	<15

Notes: 1. Results are in ug/Kg (ppb).

TABLE 8

SOIL QUALITY DATA
COLLECTION PIT

13 METALS
SCDHS PROTOCOL

ANALYTICAL PARAMETERS	SCDHS Action Levels*	COLLECTION PIT
Silver	100	<1.65
Barium	NL	7.83
Cadmium	10	<1.65
Copper	500	5.91
Nickel	1,000	2.60
Selenium	NL	<1.65
Zinc	NL	1,471
Iron	NL	6.26
Manganese	NL	18.6
Lead	400	<0.020
Mercury	2	<6.60
Arsenic	25	42.5
Chromium	100	1.97

- Notes: 1. All results are in mg/Kg (ppm).
2. * Values listed in the Suffolk County Department of Health Services (SCDHS) "Article 12 - Standard Operating Procedure No. 9-95 Pumpout and Soil Cleanup Criteria".
3. NL - No value listed by the SCDHS.

4.0 REVIEW OF FEDERAL, STATE AND LOCAL REGULATORY AGENCY RECORDS & DOCUMENTS

To determine if the subject site is listed, known, or suspected of being a hazardous waste site, federal and state listings/documents were reviewed. The NYS DEC Spill logs were reviewed to determine if any documented discharge of hazardous materials has occurred within or near the subject site. The NYS DEC Inactive Hazardous Waste Disposal Sites (IHWD) inventory of all actual or suspected inactive hazardous waste sites was reviewed. The State lists were reviewed for landfills and/or solid waste disposal sites, leaking UST sites, and registered UST sites. The US EPA databases were reviewed for National Priority List (NPL) sites, Comprehensive Environmental Response Compensation Liability Information System (CERCLIS) listed sites, RCRIS-TSD sites, RCRIS generators list sites, ERNS listed sites. The Suffolk County Department of Health Services (SCDHS), and the Town of Brookhaven files were reviewed for any records which may have been maintained by these agencies concerning the subject site.

United States Environmental Protection Agency (US EPA)

General Consolidated Industries, Inc. through the Freedom of Information Act, reviewed the records of the U.S. Environmental Protection Agency (US EPA) as supplied by that agency for the purpose of identifying sites and facilities located within a given radii of the subject property where there has been known hazardous waste activity.

The specific US EPA databases and reports reviewed include the following:

- * US EPA Comprehensive Environmental Response, Compensation, and Liability Information System (CERCLIS) National Priority List (NPL)
Search Distance (miles) 1.0

- * US EPA Comprehensive Environmental Response, Compensation, and Liability Information System (CERCLIS)
Search Distance (miles) 0.5

- * US EPA Resource Conservation and Recovery Information System (RCRIS-TSD)
Search Distance (miles) 1.0

- * US EPA Resource Conservation and Recovery Information System (RCRIS) Small Quantity Generator
Search Distance (miles) 0.25
- * US EPA Resource Conservation and Recovery Information System (RCRIS) Large Quantity Generator
Search Distance (miles) 0.25
- * US EPA RCRA Administrative Action Tracking System (RAATS)
Search Distance (miles) Target Property
- * US EPA PCB Activity Database System (PADS)
Search Distance (miles) Target Property
- * US EPA Emergency Response Notification System (ERNS)
Search Distance (miles) Target Property
- * US EPA Facility Index System (FINDS)
Search Distance (miles) Target Property
- * US EPA Toxic Chemical Release Inventory System (TRIS)
Search Distance (miles) Target Property
- * US EPA Federal Superfund Liens (NPL Liens)
Search Distance (miles) Target Property
- * US EPA Toxic Substance Control Act (TSCA)
Search Distance (miles) Target Property

New York State Department of Environmental Conservation (NYS DEC)

General Consolidated Industries Inc. through the Freedom of Information Act reviewed the records of the New York State Department of Environmental Conservation (NYS DEC) as supplied by that agency for the purpose of identifying sites and facilities located within a given radii of the subject property where there has been known hazardous waste activity.

The specific NYS DEC databases and reports reviewed include the following:

- * NYS DEC State Hazardous Waste Sites
Search Distance (miles) 1.0

- * NYS DEC Solid Waste Facilities/Landfill Sites
Search Distance (miles) 0.5

- * NYS DEC Leaking Underground Storage Tanks (LUST)
Search Distance (miles) 0.5

- * NYS DEC Registered Underground Storage Tanks (UST)
Search Distance (miles) 0.25

- * NYS DEC Hazardous Materials Information Reporting System (HMIRS)
Search Distance (miles) Target Property

4.1 United States Environmental Protection Agency (US EPA) Listed Sites

National Priority List (NPL)

The United States Environmental Protection Agency (US EPA) maintains a database of unmanaged (uncontrolled) and/or forsaken (abandoned) hazardous waste sites. The database is known as the National Priority List (NPL). Sites included in this list are given priority by the US EPA for remedial action under the federal Superfund Program. A particular site will be included on the NPL if it equals or exceeds an established hazard classification system score, or if it is designated as a particular state's top environmental priority site.

A site is also classified as an NPL site if all of the following criteria are satisfied:

- 1) The U.S. Department of Health & Human Services issues a health advisory recommending that people be evacuated from the site to avoid exposure.
- 2) The EPA determines that the site is a potentially significant environmental hazard.
- 3) The EPA determines that site remediation is more cost-effective than removal.

GCI reviewed the United States Environmental Protection Agency's National Priorities List. This review indicated that the subject site is not on the NPL list and that there is one (1) NPL site within a one (1.0) mile radius of the subject property:

- (1) **Site:** Brookhaven National Laboratory (US Department of Energy)
Address: 53 Bell Avenue, Upton, New York 11973
EPA ID NO.: NY7890008975
Location: <1/8 mile north (upgradient)
Status: The site is a 5.265 acre, federally owned research facility operated by the Department of Energy, consisting of an active lab and waste disposal facility, with inactive and active landfills, "chemical holes", a sewage treatment plant and a former ash fill. Accidents have occurred in several areas. Strontium-90 radioactive slurry was accidentally injected into the groundwater in 1960. Other radioactive releases have occurred, some of which are federally permitted. Workers deposited over three tons of waste each day

into the former landfill which closed in 1966. The current landfill has been in operation since 1967. At the hazardous waste management facility (HWMF), spills of VOCs and other compounds have contaminated groundwater. In 1990, BNL discovered that traces of 1,1,1-Trichloroethane (TCA) and Dichloroethene (DCA) were detected in a test well along their southern property line.

CERCLIS

The US EPA Comprehensive Environmental Response, Compensation, and Liability Act (CERCLA) of 1980 was designed to allow the federal government to directly address any potential release of hazardous waste that may endanger public health or welfare; in order to "provide for liability, compensation, clean-up, and emergency response for hazardous substances released into the environment and clean-up of inactive hazardous waste disposal sites."

GCI has reviewed the USEPA Comprehensive Environmental Response Compensation Liability Information System (CERCLIS) database listing. The review has indicated that there is one (1) CERCLIS hazardous waste site located within a one-half (1/2) mile radius of the subject property:

- | | |
|--------------------|--|
| (1) Site: | Brookhaven National Laboratory (US Department of Energy) |
| Address: | 53 Bell Avenue, Upton, New York 11973 |
| EPA ID NO.: | NY7890008975 |
| Location: | <1/8 mile north (upgradient) |
| Status: | See NPL listing. |

RCRIS-TSD

The US EPA maintains a database of facilities on which treatment, storage, and/or disposal of hazardous wastes takes place, as defined and regulated by RCRA. The database is known as the RCRIS-TSD facilities list. A review of the latest database published indicated that there is one (1) RCRIS-TSD facility located within a one (1.0) mile radius of the subject site:

- (1) **Site:** Brookhaven National Laboratory (US Department of Energy)
Address: 53 Bell Avenue, Upton, New York 11973
EPA ID NO.: NY7890008975
Location: <1/8 mile north (upgradient)
Status: See NPL listing.

RCRIS Generators

The US EPA maintains a database of those persons or entities that generate hazardous wastes as defined and regulated by RCRA. The database is known as the RCRIS generators list. A review of the latest database published indicated that Precision Concepts Inc. was listed as a RCRIS Small Quantity Generator of hazardous waste noted as follows:

- 1) **Site:** Precision Concepts Inc.
Address: 26 Precision Drive, Shirley, New York 11967
EPA ID No.: NYD982187270
Description: The operations conducted at the site entailed the generation of spent halogenated solvents and ignitable hazardous wastes.

Please note that Precision Concepts ceased operations at the subject site approximately in 1991. The records further indicated that there are three (3) RCRIS Generators located within a one-quarter (1/4) mile radius of the subject site.

CORRACTS

The US EPA maintains a database of facilities at which handlers are identified with RCRA Corrective Action Activity. This report shows which nationally-defined corrective action core events have occurred for every handler that has had corrective action activity. A review of the latest database published indicated that there is one (1) Corraacts facility located within a one (1.0) mile radius of the subject site:

- (1) **Site:** Brookhaven National Laboratory (US Department of Energy)
Address: 53 Bell Avenue, Upton, New York 11973
EPA ID NO.: NY7890008975
Location: <1/8 mile north (upgradient)
Status: See NPL listing.

ERNS

The US EPA maintains an Emergency Response Notification System list of reported CERCLA hazardous substance releases or spills in quantities greater than the reportable quantity, as maintained at the National Response Center. The list is known as the ERNS list. A review of the latest list published indicated that no ERNS activity was reported at the subject property.

4.2 New York State Department of Environmental Conservation (NYS DEC) Listed Sites

Inactive Hazardous Waste Sites

The New York State Department of Environmental Conservation (NYS DEC) publishes a report entitled "Inactive Hazardous Waste Disposal Sites in New York State". April 1995, which lists all properties that have been found to contain, or are suspected of containing, significant amounts of hazardous or toxic contamination.

A review of inactive hazardous waste disposal (IHWD) sites revealed that the subject site is listed by the NYS DEC as a known hazardous waste disposal site. The records further indicated that there are no (0) hazardous waste sites located within a one (1.0) mile radius of the subject property:

- 1) **Site:** Precision Concepts Inc.
Address: 26 Precision Drive, Shirley, New York 11967
EPA ID No.: Not Reported
Location: Subject Property

Description: Precision Concepts was a manufacturer of metal fixtures for use by the electronics industry. Precision Concepts operated its business from 1985 to 1989. There is record that there has been processing and storage of hazardous materials by Precision Concepts. The Suffolk County Department of Health Services (SCDHS) conducted extensive private water well sampling and groundwater sampling in the vicinity of the subject property, as well as sampling potential on-site contamination sources. The results of the SCDHS investigation revealed that there is contamination present in residential groundwater wells located downgradient of the subject property. The SCDHS indicated that the contamination source is believed to be emanating from the subject site. Based upon the SCDHS results it was determined that further investigation was necessary. please see Section 3.0 - Site Inspection / Subsurface Investigation.

Landfills and/or Solid Waste Disposal Sites

A review of New York State listed landfills and/or solid waste disposal sites revealed that there are no (0) solid waste disposal sites located within a one-half (1/2) mile radius of the subject site.

Registered Underground Storage Tanks (UST)

A review of the New York State list of registered underground storage tanks indicated that there are no registered USTs located at the subject site.

Registered Aboveground Storage Tanks (AST)

A review of the New York State list of registered aboveground storage tanks indicated that two (2) storage tanks and one (1) drum storage area were removed from the site on January 1, 1991. The specific information for the tanks and drum area is as follows:

- Tank 1 - 6,000 GAL aboveground, outdoor, industrial waste - Removed 1/1/91
- Tank 2 - 400 GAL aboveground, outdoor, organic solvent - Removed 1/1/91
- Tank 3 - 1,875 GAL aboveground, indoor, drum storage area - Removed 1/1/91. There were no additional records regarding ASTs on file with the NYSDEC for the subject site.

Leaking Underground Storage Tanks (LUST)

The NYS DEC has compiled a record of all documented hazardous materials spills and illegal discharges to the land, subsurface, and surface water that have occurred within New York State since 1986. This record, commonly referred to as the "DEC Spill Logs" is a record of spills or releases of petroleum products such as gasoline and fuel oils from above and below ground storage tanks, however, it also includes any documented illegal dumping of any type of hazardous material.

A review of the New York State Department of Environmental Conservation (NYSDEC) records indicated that the subject property is not listed as a LUST site. In addition, the NYSDEC records also stated that there were two (2) LUST sites located within a one-half (1/2) mile radius of the subject property. Of these sites, none (0) are currently considered active. Based upon the fact that there are no (0) active sites, the potential for contamination from these sites to impact the subject property is unlikely.

New York Spills

Please note that in order to provide additional information regarding the subject site, GCI researches several additional federal databases. It was reported that the subject site is listed by the NYSDEC in the NY Spills database. The NY Spills is a listing of data collected on spills reported to the NYSDEC. The spill information regarding the subject site is listed as follows:

- 1) **Site:** Precision Concepts Incorporated
Address: 26 Precision Drive
Shirley, New York 11967
Spill No.: 9109772
Spill Date: December 12, 1991
Closed Date: July 7, 1992
Material Spilled: Petroleum
Quantity: Five (5) gallons
Resource Affected: On land
Status: No significant threat to human health or collateral value of the property. The spill has been cleaned-up to the satisfaction of the NYSDEC.

Federal & State Regulatory Review Conclusion:

Based on the review of the regulatory agency databases mentioned above, as well as a review of the surrounding properties, it is anticipated that there is contamination migrating onto the subject property via an off-site source. Please note that the subject property is currently listed as a IHWD site by the NYSDEC. However, based upon the findings of the Phase II Subsurface Investigation conducted at the site, it appears that the subject property is not responsible for causing the regional groundwater contamination plume in the vicinity of the subject property. Therefore it has been wrongly listed as an IHWD site, and should be removed from the NYSDEC IHWD site list. The findings of the Phase II Subsurface Investigation indicate that the former operations conducted at the facility have not caused contamination of the groundwater, but rather the subject site is being contaminated via contaminated groundwater migrating across the subject property from an off-site upgradient source. The database searches of the Federal and State lists noted in the above sections revealed one (1) potential concern, specifically the one (1) NPL site: Brookhaven National Laboratory (BNL). The BNL site is located less than one-eighth (1/8) of a mile north (upgradient) of the subject site. Based upon the fact that there is documented contamination of the soil and groundwater at the BNL site, as well as the findings of the Phase II Subsurface Investigation, it would appear that contaminated groundwater from the BNL site is migrating across the subject property.

4.3 Suffolk County Department of Health Services (SCDHS)

The Suffolk County Department of Health Services (SCDHS) was contacted concerning any records retained by the agency concerning the subject site. A very large file presently exists regarding the subject site. A small portion of the documents pertain to the company presently occupying the subject site, known as "Luitpold Pharmaceutical, Inc." The remaining documents pertained to "Precision Concepts", the company which occupied the subject site prior to Luitpold Pharmaceutical, Inc. The prior business operations conducted at the subject site by Precision Concepts has been linked to on-site contamination of leaching pools and the sanitary system. The following is a partial chronological listing of the major chain of events as recorded by the SCDHS:

- May 1988 • The SCDHS sampled a leaching pool located on the east side of the subject building, occupied at the time by Precision Concepts. The SCDHS found contamination of 1,200 ppb of 1,1,1 Trichloroethane (TCA). Please note that the current action level for TCA listed by the Suffolk County Department of Health Services (SCDHS) is 1,600 ppb.

- March 1990 • Brookhaven National Laboratory (BNL) which is located north of the subject site, and north of the Long Island Expressway informed the SCDHS that traces of 1,1,1 Trichloroethane (TCA) and Dichloroethene (DCA) were detected in a test well along their southern property line.

- May 1990 • The SCDHS sampled the industrial leaching pool located on the east side of the subject building, occupied at the time by Precision Concepts. The SCDHS found no organic contamination at a detection limit of 40 ppb.

- June 1990 • The SCDHS Public Health Laboratory subsequently performed a sampling survey of approximately ninety (90) homes located south of the expressway and south of the subject site (occupied by Precision Concepts), where private drinking water wells were sampled for trace organics. Of the ninety (90) private wells tested, five (5) wells were found to be contaminated with TCA and DCA.

- May - Oct. 1990 • The SCDHS Bureau of Groundwater Resources installed twenty (20) groundwater monitoring wells in order to determine groundwater flow and origin of the contamination. The testing of wells located along the northern side of the Long Island Expressway (L.I.E) south service road (adjacent/north of the subject site) indicated low levels of contamination (<15 ppb) at 30 to 110 feet below the water table. Testing of wells located along Precision Drive (AKA Natcon Drive) which is immediately downgradient/south of the subject site, indicated high levels of TCA contamination (3-9300 ppb) at 10 to 40 feet below the water table. The SCDHS estimated through additional monitoring wells that a plume of contamination approximately 300 feet wide by 3100 feet long is emanating from the area occupied by Precision Concepts.

- Jan. - Feb. • The SCDHS issued an Order of Consent to Precision Concepts (IW-91-0001), charging violation of Article 7 and Article 12 of the Suffolk County Sanitary Code. The SCDHS sampled the site during May, 1988; May, 1990; June, 1990; and November, 1990, charging that the company had discharged hazardous material during these periods causing the contamination of soil, groundwater and private wells located downstream of the site.

- July 1991 • The SCDHS sampled the two (2) storm drains (DW-1 and DW-2) located in the rear loading dock area, as well as sampling the on-site sanitary cesspool (C-1) located near the northwest corner of the subject building. The liquid samples were analyzed for VOCs and metals.

- August 1991 • Correspondence from Mr. Dennis Gobbi of the SCDHS informed Precision Concepts that the analytical results for the sample collected from C-1 revealed that the state and county discharge standards had been exceeded. There were no exceedances noted in either of the samples from drywells DW-1 and DW-2.

- March 1992 • The SCDHS filed a notice of Formal Hearing directing that Precision Concepts appear in connection with the violations listed as per the Consent Order - IW-92-006, and further requesting that Precision Concepts submit proposals for performing soil and groundwater sampling; the installation of groundwater monitoring wells; perform on-site chemical inventories, and several other items.

- June 1992 • The pump out and disposal of the contents of an 8,000 gallon septic system (C-1) was approved by County of Suffolk Department of Public Works and immediately carried out.

- Sept. 1992 • A Soil and Groundwater Investigation Workplan (SGIW) was prepared for Precision Concepts by Mr. Richard D. Galli, P.E., P.C., Greenlawn, New York.

- Jan. 1993 • The SCDHS rejected (SGIW) prepared by Mr. Galli and later responded by asking for a full site assessment as per NYS DEC protocols for RI/FS, or the equivalency of a State Superfund Preliminary Site Assessment (PSA).

- Aug. - July 1993 • A facility and Tank Closure Plan for Precision Concepts was approved by the SCDHS and subsequently carried out by Life Support Sciences Inc., Greenlawn, New York, which included the cleaning and removal of one (1) 6,000 gallon AST and one (1) 500 gallon degreasing tank formerly containing 1,1,1 trichloroethylene.

- Aug. - July 1993 • The SCDHS was considering the nomination of the Precision Concepts site (subject site) to the New York State Superfund program.

- Currently • At this time, the subject site is listed by the New York State Department of Environmental Conservation (NYSDEC) as a State Hazardous Waste Site (SHWS).

A copy of the record search request filed with the Suffolk County Department of Health Services (SCDHS) is enclosed in Appendix B - Historical Agency Records.

4.4 Town of Brookhaven

Research was conducted in the Town of Brookhaven to trace the history of all past applications to the Town for modification of the subject property, as well as to acquire all certificates of occupancy (C/O).

Building Department

The Town of Brookhaven Building Department records indicate that the property has been occupied for industrial and warehouse use since originally constructed prior to 1985. There is also records indicating that the building was utilized for metal stamping, soldering/assembling and cleaning by the company formerly occupying the subject site. known as Precision Concepts. Precision Concepts operated its business from 1985 to 1993.

Tax Assessor

The Town of Brookhaven Tax Assessor's Office indicated that the subject site was vacant undeveloped land prior to 1985.

Fire Prevention

The Town of Brookhaven Fire Prevention Division records indicate that the site had previously stored waste oil, degreasing solvent, waste acid and trichloroethane, as well as other hazardous chemicals.

Zoning / Land Use Records

The Town of Brookhaven Zoning Office records indicate that the subject site is zoned for commercial / industrial uses.

A copy of the documents obtained from the Town of Brookhaven is included in Appendix B - Historical Agency Records.

5.0 SUMMARY OF FINDINGS

5.1 Conclusions & Recommendations

Conclusions:

The preceding sections provide a full evaluation of the environmental threat to private and public health. Based on the completion of the up-dated Phase I Environmental Site Assessment, General Consolidated Industries, Inc. has come to the following conclusions:

The subject site is located at 26 Precision Drive (AKA Natcon Drive), 1,343 feet east of William Floyd Parkway, abutting Roned Road on the east side, south of the Long Island Expressway South Service Road, Town of Brookhaven, Suffolk County, Long Island, New York.

The parcel is an irregular rectangular shaped parcel, with approximately 1,355 feet of frontage along the south side. The property is approximately 900 feet deep. The total subject parcel is approximately 636,000 square feet or 15.9 acres. The building itself occupies approximately 6% of the subject site. The remainder of the property is developed as perimeter buffer and parking areas for the facility.

The subject site is a single lot parcel, improved by a commercial warehouse/office building, which is currently occupied by "Luitpold Pharmaceutical". The subject property was originally developed for use as a commercial/industrial facility with on site parking areas.

The subject building is constructed of concrete block with brick veneer. The building rests on a poured concrete slab foundation. Windows are comprised primarily of bronze plate glass in aluminum frames.

The building space consists of office areas along the north end, reception/waiting area, conference room, lunch room, storage rooms, a research and development lab, office areas, bathrooms (office and warehouse), loading area and three warehouse/storage areas along the south end.

The office section and primary entrance to the building is accessible from the north and west sides. Four (4) overhead bay doors access the warehouse/storage areas from the south side. All office areas are finished with carpeted floors, sheetrock walls and suspended acoustic ceilings. All manufacturing/storage areas remain unfinished with poured concrete floors, concrete walls and steel corrugated ceilings/roof deck.

The heat for the site is provided to the warehouse areas of the building via gas and electric fired, ceiling mounted forced hot air systems. All other areas including offices and research and development areas are heated via a gas fired, WEIL McLAIN boiler/circulating hot water baseboard system.

The primary roof of the building was observed to be a flat/terraced type. Storm water runoff at the building is directed to internal drains that reportedly are piped to the on-site drywells.

The electric and gas service for the entire subject site is supplied by Long Island Lighting Company (LILCO). The drinking (potable) water is supplied by the Suffolk County Water Authority (SCWA). All sanitary discharges are directed to the on-site sanitary cesspool system.

The potential for vandalism type dumping of hazardous material on the property is considered moderate to high. The property is very secluded and situated on a very low traffic, secondary thoroughfare, which is poorly lighted. Access is provided to the property from Precision Drive (AKA Natcon Drive) via two (2) driveways. There are no gates or fencing existing at the driveway areas. The north side is bound by the LIE south service road.

Sewage generated on site is reportedly directed to the on-site cesspool/septic tank.

Storm water at the parking areas is directed to several leaching pools including: two (2) leaching drywells located in the common parking area at the west side of the subject site, two (2) in the common parking area at the south side of the subject site, one (1) at the north end of the common parking area, and two (2) leaching drywells (DW-1 and DW-2) are located in the loading area along the south side of the subject site. In addition it was determined that there are two (2) buried drywells (DW-3 and DW-4) located west of the loading dock area which are utilized for collection of storm water from the roof.

There were no floor drains, slop sinks or other forms of subsurface discharge observed within the building at the time of the inspection, with the exception of the collection pit.

Activities conducted at the subject site do entail the use and storage of drums. There is one (1) - 55 gallon drum of hazardous waste chemicals is stored in the research and development lab. According to documents provided, this drum contains waste corrosive liquid, Nos (D002), consisting of hydrochloric and sulfuric acids.

The property has been occupied for industrial and warehouse use since originally constructed prior to 1985. There is no record that the building had ever been utilized for laboratory or x-ray processing, although metal stamping, soldering/assembling and cleaning were used by the company formerly occupying the subject site, known as Precision Concepts. Precision Concepts was a manufacturer of metal fixtures for use by the electronics industry. Precision Concepts operated its business from 1985 to 1993. There is record that there has been processing and storage of hazardous materials by Precision Concepts; although the normal operations, when conducted properly at the facility by the present uses carried out by Luitpold Pharmaceutical, Inc. would not appear to pose a threat to human health or the collateral value of the property.

During the site inspection, GCI personnel did not identify any evidence of chemical spills such as soil staining or stressed vegetation, with the exception of minor staining of the pavement in the vicinity of the loading dock area. The stains are most likely the result of automotive fluid leaks from trucks and other vehicles frequently idling in this area.

A review of the New York State Department of Environmental Conservation (NYSDEC) records indicated that a release of petroleum occurred at the subject site on December 12, 1991. The records stated that approximately five (5) gallons of petroleum product had been spilled on land as a result of poor housekeeping practices. The NYSDEC was notified and Spill No. 9109772 was assigned to the site. The spill was cleaned-up at the site, and the NYSDEC was satisfied with the remedial efforts and closed the spill file on July 7, 1992. There is no further work required at this time.

There is use and storage of chemicals at the subject site. There is one (1) - 55 gallon drum of hazardous waste chemicals is stored in the research and development lab. According to documents provided, this drum contains waste corrosive liquid, Nos (D002), consisting of hydrochloric and sulfuric acids. This drum is stored in a designated hazardous waste storage cabinet, with good housekeeping practices observed. It was reported that Chemical Pollution Control, a licensed hazardous waste transporter, is responsible for picking up and disposing of all chemical wastes at the subject site.

During the site inspection, GCI personnel did not identify any on-site underground storage tanks (USTs), aboveground storage tanks (ASTs) or any other storage tanks, nor any evidence of storage tanks such as fill ports, vent lines, manways or dispensers.

The New York State Department of Environmental Conservation (NYS DEC) Petroleum Bulk Storage (PBS) database was reviewed for any records of registered storage tanks at the subject site. The NYS DEC PBS database records indicate that two (2) storage tanks and one (1) drum storage area were removed from the site on January 1, 1991. The specific information for the tanks and drum area is as follows:

- Tank 1 - 6,000 GAL aboveground, outdoor, industrial waste - Removed 1/1/91
- Tank 2 - 400 GAL aboveground, outdoor, organic solvent - Removed 1/1/91
- Tank 3 - 1,875 GAL aboveground, indoor, drum storage area - Removed 1/1/91.

The Suffolk County Department of Health Services was contacted concerning any records retained by the agency with regard to storage tanks at the subject site. The Suffolk County Department of Health Services records indicate that two (2) storage tanks and one (1) drum storage area were removed from the site on January 1, 1991. The specific information for the tanks and drum area is as follows:

- Tank 1 - 6,000 GAL aboveground, outdoor, industrial waste - Removed 1/1/91
- Tank 2 - 400 GAL aboveground, outdoor, organic solvent - Removed 1/1/91
- Tank 3 - 1,875 GAL aboveground, indoor, drum storage area - Removed 1/1/91

The Town of Brookhaven was contacted concerning any records retained by the agency with regard to storage tanks at the subject site. The Town of Brookhaven records indicated that the site had previously stored waste oil, degreasing solvent, waste acid and trichloroethane, as well as other hazardous chemicals.

There was no suspect asbestos containing material (ACM) observed in any of the areas inspected during the site visit.

At the time of the inspection, there was one (1) ground based transformer located on-site, specifically at the northwest corner of the subject building. There was no evidence of staining due to leaking material in the vicinity of the transformer. In addition, it was reported by LILCO that there is no use of PCB oil in their transformers.

Radon is not considered a significant environmental concern within the subject site. In addition the subject site is not residential in nature, nor are there living spaces located below grade.

The subject site is improved by a commercial building. Being that the subject property was not residential in nature, the potential for lead-based paint (LBP) was not required to be scrutinized. Therefore, an on-site testing of painted surfaces for the presence of lead-based paint (LBP) was not performed.

Based on the review of the regulatory agency databases mentioned above, as well as a review of the surrounding properties, it is anticipated that contamination is migrating onto the subject property via an off-site source. Please note that the subject property is currently listed as a IHWD site by the NYSDEC. However, based upon the findings of the Phase II Subsurface Investigation conducted at the site, it appears that the subject property is not responsible for causing the regional groundwater contamination plume in the vicinity of the subject property. Therefore it has been wrongly listed as an IHWD site, and should be removed from the NYSDEC IHWD site list. The findings of the Phase II Subsurface Investigation indicate that the former operations conducted at the facility have not caused contamination of the groundwater, but rather the subject site is being contaminated via contaminated groundwater migrating across the subject property from an off-site upgradient source. The database searches of the Federal and State lists noted in the above sections revealed one (1) potential concern, specifically the one (1) NPL site; Brookhaven National Laboratory (BNL). The BNL site is located less than one-eighth (1/8) of a mile north (upgradient) of the subject site. Based upon the fact that there is documented contamination of the soil and groundwater at the BNL site, as well as the findings of the Phase II Subsurface Investigation, it would appear that contaminated groundwater from the BNL site is migrating across the subject property.

The building as well as the property are both in good condition. The normal operations presently conducted at the facility by the present use, would not pose a threat to human health or the collateral value of the property, assuming proper industry standards are being adhered to.

The preceding section provides a full evaluation of the environmental threat to private and public health. Based upon the completion of the Targeted Phase II Subsurface Investigation of the subject site, General Consolidated Industries, Inc. (GCI) has come to the following conclusions:

The subject property has a history of hazardous chemical usage, as well as a history of environmental problems. The SCDHS has documented contamination at the subject site in a leaching pool, the septic tank as well as a drywell.

The investigation consisted of installing six (6) soil borings in strategic locations with respect to possible on-site and off-site contamination sources. Please note that the soil borings were conducted at the site on three (3) separate occasions: May 16, 1996, and January 24 and 31, 1997. In addition, soil samples were collected from drywells DW-1 and DW-2 on May 16, 1996, July 31, 1996 and January 24, 1997, soil samples were collected from drywells DW-3 and DW-4 on January 24, 1997 only.

Soil samples were collected at varying depths in each of the borings. Groundwater samples were collected from the soil/water interface level which was encountered at approximately forty-four (44) feet below land surface (bls).

The four (4) drywells (DW-1 through DW-4) located in the rear of the site were sampled and submitted for laboratory analysis. The soil samples obtained from the drywells were collected using a decontaminated stainless steel hand-auger.

A collection pit located in the interior of the warehouse area was remediated at the request of the SCDHS. Approximately two (2) yards of soil were removed from the collection pit. An end-point sample was collected and submitted for laboratory analysis as per the SCDHS protocol. Based upon the analytical results it was reported by the SCDHS that there would be no need for further remediation of the collection pit. The pit was filled with clean sand and finished at grade with concrete.

A total of five (5) groundwater samples and five (5) soil samples were submitted for laboratory analysis. The groundwater samples obtained from soil borings SB-1, SB-2 and SB-4 were submitted for laboratory analysis of volatile organic compounds using EPA Method 624 as well as for the 8 RCRA Metals, with the exception of the groundwater sample from soil boring SB-2, which was submitted for analysis of the 8 RCRA Metals only. The groundwater samples collected from soil borings SB-5 and SB-6 were analyzed for VOCs and 13 heavy metals as per the protocol specified in the Suffolk County Department of Health Services (SCDHS) "Guidelines for Minimal Equipment and Procedures for Pumping Out Industrial Waste Pools".

The soil samples obtained from the drywells were analyzed for VOCs and 13 heavy metals as per the protocol specified in the Suffolk County Department of Health Services (SCDHS) "Guidelines for Minimal Equipment and Procedures for Pumping Out Industrial Waste Pools", with the exception of the sample obtained from drywell DW-1 on July 31, 1996, which was analyzed for the 13 Metals only.

The groundwater samples collected from soil borings SB-1, SB-2, SB-4, SB-5 and SB-6 were submitted for laboratory analysis. The groundwater samples obtained from soil borings SB-1, SB-2 and SB-4 were submitted for laboratory analysis of volatile organic compounds using EPA Method 624 as well as for the 8 RCRA Metals, with the exception of the groundwater sample from soil boring SB-2 which was submitted for analysis of the 8 RCRA Metals only. The groundwater samples collected from soil borings SB-5 and SB-6 were analyzed for VOCs and 13 Metals as per the protocol specified in the Suffolk County Department of Health Services (SCDHS) "Guidelines for Minimal Equipment and Procedures for Pumping Out Industrial Waste Pools". The analytical results for the groundwater samples were compared to the values set forth by the New York State Department of Environmental Conservation Water Quality Regulations.

The analytical results indicated that there were no detectable concentrations of volatile organic compounds (VOCs) present in any of the groundwater samples. The metals analysis revealed that there are elevated levels of metals present in both the upgradient (SB-1 and SB-2) and the downgradient (SB-4, SB-5 and SB-6) groundwater samples. Based upon a comparison of the analytical data, it was determined that there is a general decrease in the contaminant concentrations as moving downgradient (south) across the subject site. Although, the analytical results for the groundwater sample from soil boring SB-5 indicated an increase in contaminant concentration. It is believed that the groundwater analytical results for SB-5 are indicative of a "hot spot" in a contaminant plume migrating across the subject site, and are not related to a point source of contaminant discharge on the subject site.

Representative soil samples were collected from drywells DW-1 and DW-2 on May 17, 1996, July 31, 1996 (DW-1 only), and January 28, 1997. Soil samples were collected from drywells DW-3 and DW-4 on January 28, 1997. The soil samples were field screened with a HNU photoionization detector (PID), which is capable of detecting volatile organic compounds (VOCs). The results of the PID screening indicated that there were no detectable levels of VOCs present. The samples were also visually inspected for possible signs of contamination. The soil samples obtained from DW-1 and DW-2 exhibited some discoloration during all sampling rounds.

All of the soil samples collected were submitted for laboratory analysis. The samples were analyzed for volatile organic compounds (VOCs) and also for the 13 metals as specified in the Suffolk County Department of Health Services (SCDHS) "Guidelines for Minimal Equipment and Procedures for Pumping Out Industrial Waste Pools". Please note that the sample obtained from DW-1 on July 31, 1996, was submitted for analysis of the 13 metals only.

The analytical results for the soil samples obtained from the drywells were compared to the Action Levels listed in the Suffolk County Department of Health Services (SCDHS) "Article 12 - Standard Operating Procedure No. 9-95 - Pumpout and Soil Cleanup Criteria". The analytical results for drywells DW-1 and DW-2 indicated that there were no detectable levels of VOCs present in any of the samples collected during the three (3) sampling rounds. However, the metals analysis for drywells DW-1 and DW-2 revealed conflicting results over the three (3) sampling rounds. The analytical results for the samples obtained on May 17, 1996, indicated that there were no constituents detected at levels above their respective regulatory action levels, with the exception of copper, which was detected at a concentration of 1,529 ppm in the sample from DW-1. Therefore, on July 31, 1996, another soil sample was obtained from drywell DW-1 in order to confirm the previous laboratory analytical results. The sample was analyzed for the 13 metals only. The analytical results indicated that there were no constituents present at concentrations greater than their respective regulatory limits and copper was detected at a concentration of only 15.4 ppm. The January 28, 1997, analytical results for the metals analysis for DW-1 and DW-2 revealed that there were no constituents detected at levels above their respective regulatory action levels, with the exception of copper, which was detected at 1,114 ppm in DW-2.

The analytical results for drywells DW-3 and DW-4 indicated that there were no detectable levels of VOCs present in the samples. The results for the metals analysis for DW-3 and DW-4 revealed that there were no constituents detected at levels above their respective regulatory action levels.

Based upon the varied results for the metals analysis on drywells DW-1 and DW-2, it appears that there may have been a laboratory error which has led to the ambiguity of the results.

Please note that the review of laboratory analytical results for drywells and cesspools, as well as any determination of contamination is made by the Suffolk County Department of Health Services (SCDHS). The review and determination is made on a case by case basis.

On the basis of General Consolidated Industries, Inc. (GCI) Phase I Environmental Site Assessment and Phase II Subsurface Investigation of the subject property, the following environmental concern exists:

1. The subject property is currently listed by the NYSDEC as a Inactive Hazardous Waste Disposal (IHWD) Site, therefore a Phase II Subsurface Investigation was conducted at the subject property to determine if the operations conducted at the site had in fact contaminated the subsurface soils and groundwater, or neighboring properties. The SCDHS has documented contaminated groundwater present in residential water wells located downgradient (south) of the subject property. The results of the SCDHS investigation into the groundwater contamination source indicated that the subject site (Precision Concepts) was responsible for the downgradient contamination of the residential water wells. However, based upon the findings of the Phase II Subsurface Investigation conducted at the site, it appears that the subject property is not responsible for causing the regional groundwater contamination plume in the vicinity of the subject property. Therefore, it appears that the subject property has been inaccurately listed as an IHWD site. The findings of the Phase II Subsurface Investigation indicate that the former operations conducted at the facility have not caused contamination of the groundwater, but rather the subject site is being contaminated via contaminated groundwater migrating across the subject property from an off-site upgradient source. The database searches of the Federal and State lists noted in the above sections revealed one (1) potential concern, specifically the one (1) NPL site; Brookhaven National Laboratory (BNL). The BNL site is located less than one-eighth (1/8) of a mile north (upgradient) of the subject site. Based upon the fact that there is documented contamination of the soil and groundwater at the BNL site, as well as the findings of the Phase II Subsurface Investigation, it would appear that contaminated groundwater from the BNL site is migrating across the subject property, as well as to adjoining downgradient properties. The NYSDEC should be informed of the findings so that the subject property can be removed from the NYSDEC IHWD site list and the responsible party investigated.

5.2 Limitations

The purpose of this investigation was to identify potential sources of contamination at the property, and to satisfy the all appropriate inquiry standard set forth in Section 9601 (35)(b) of CERCLA. The findings and conclusions set forth in this report are based upon information that was available to General Consolidated Industries, during its inspection of the property and after review of selected records and documents. If new information becomes available concerning the property after this date, or if the property is used in a manner other than that which is in this report, the findings and conclusions contained herein may have to be modified. Additionally, while this investigation was performed in accordance with good commercial and customary practice and generally accepted protocols within the consulting industry, General Consolidated Industries, cannot guarantee that the property is completely free of hazardous substances or other materials or conditions that could subject Mr. Vince Marino to potential liability. The presence or absence of any such condition can only be confirmed through the collection and analysis of air, soil and/or groundwater samples, which was beyond the scope of this investigation.

Future events and/or investigation could change the findings stated herein. Should additional investigations encounter differing conditions, sections of this report may require modification.

Limiting Conditions:

The preceding Environmental Assessment is subject to the following conditions and to such other conditions and limiting conditions as are set forth in the report.

1. General Consolidated Industries assumes no responsibility for hidden or latent conditions or misrepresentation by the property owner, his representatives, public information officials or any authority consulted in connection with the compilation of this report.
2. This report is prepared for the sole and explicit purpose for assessing the potential liability with respect to the suspected presence of hazardous materials that may pose a potential health or environmental threat and for evaluating collateral risk associated with the same. This report is not intended to have any direct bearing on the value of the property.
3. The Environmental Assessment Report is for the sole use of the principal parties. No disclosure or reproduction shall be made of the preceding report without the prior written consent of General Consolidated Industries.
4. General Consolidated Industries or any representative of General Consolidated Industries is not required to give testimony with reference to the opinions expressed herein without prior written arrangement.

Disclaimer:

This report is for the use of Mr. Vince Marino as a guide in determining the possible presence of toxic materials on the subject property at the time of the inspection. This report is based on the review of historic records, relating to past occupants, and upon a visual inspection of the surrounding properties at the time of inspection. The records researched may be incomplete, and this report makes no determinations with respect to portions of the surrounding properties which were not inspected. This Phase I report is not a definitive determination of the presence of absence of toxic substances.

Any and all liability on the part of General Consolidated Industries, Inc. shall be limited solely to the cost of this environmental assessment. General Consolidated Industries, Inc. shall have no liability for any damages, whether consequential, compensatory, punitive, or special, arising out of, incidental to, or as a result of, this assessment and report. General Consolidated Industries, Inc. shall have no liability for any cleanup and/or response costs, or any other incidental, or consequential, punitive, or special costs arising out of, incidental to, or as a result of any action against Mr. Vince Marino brought by any federal, state, or local government agency. General Consolidated Industries, Inc. assumes no liability for the use of this assessment and report by any person or entity other than Mr. Vince Marino for whom it has been prepared.

APPENDIX A - SITE MAPS

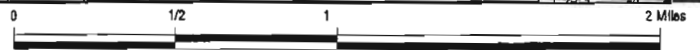
TOPOGRAPHIC MAP

- **Displays a two mile radius around the target property.**
- **Displays the United States Geological Survey (USGS) topographic contours and selected road features (i.e., major street names, and hydrographic data)**

TOPOGRAPHIC MAP - 0154848.1r - General Consol. Industries



Source: US Geological Survey 1-Degree Digital Elevation Model
Compiled 09/15/92



↖ - Major Roads

↖ - Contour lines (25 foot interval unless otherwise shown)

↖ - Waterways

⊙ - Earthquake epicenter, Richter 5 or greater.

(F)(S) - Closest well according to (F)ederal or (S)tate database in quadrant.

(P) - Closest public water supply well.

(HD) - Closest Hydrogeological Data.

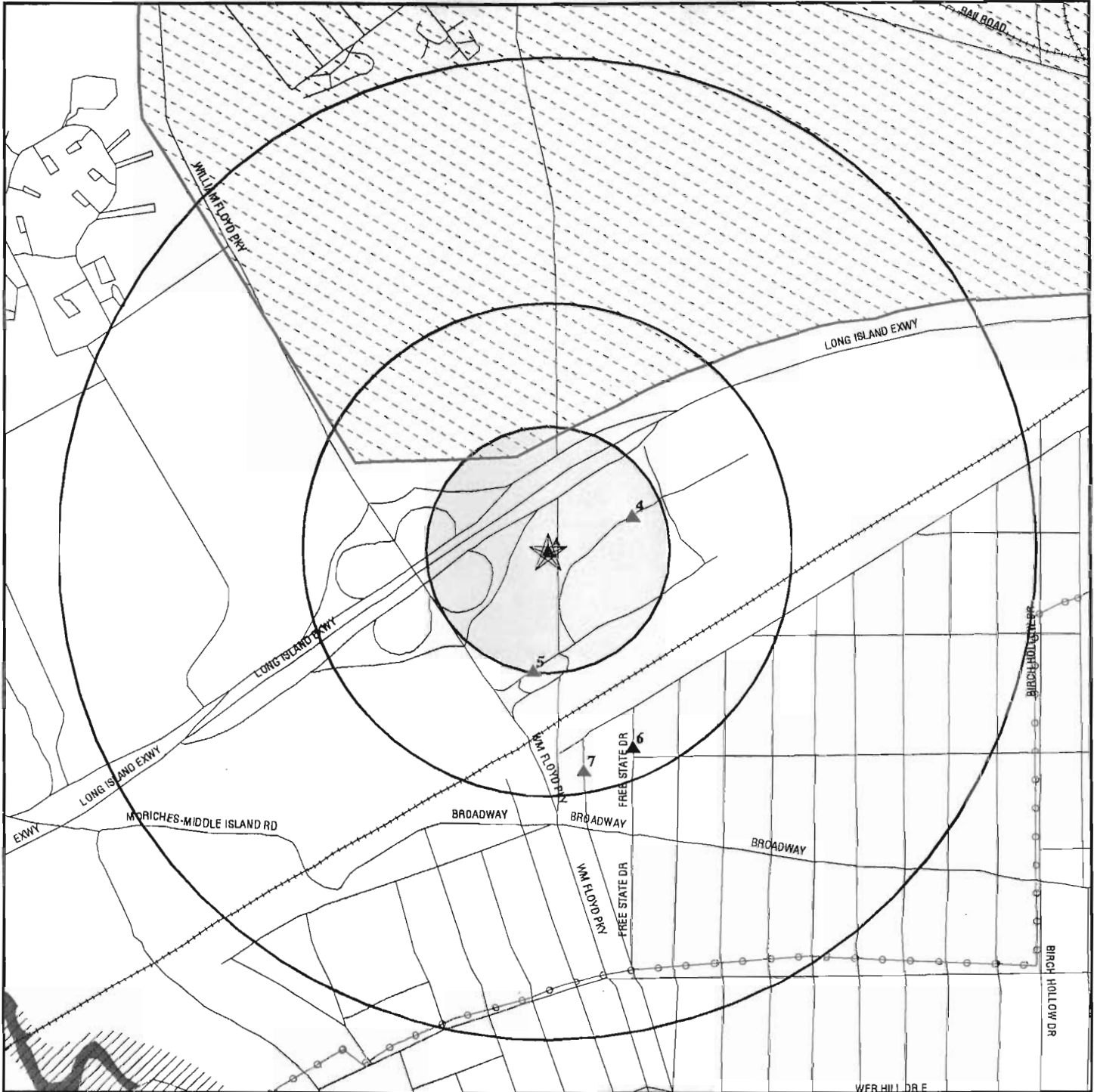
TARGET PROPERTY: 960102
ADDRESS: 26 Precision Dr.
CITY/STATE/ZIP: Shirley NY 11967
LAT/LONG: 40.8441 / 72.8868

CUSTOMER: General Consol. Industries
CONTACT: Tom P. Smyth
INQUIRY #: 0154848.1r
DATE: January 15, 1997 5:41 pm

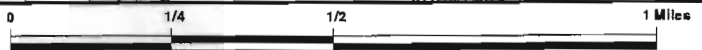
OVERVIEW MAP

- Displays a one mile (ASTM Standard) radius around the target property.
- Includes major geographic attributes available in the computer mapping system (i.e., street names, available hydrography)

OVERVIEW MAP - 0154848.1r - General Consol. Industries



- ★ - Indicates TARGET PROPERTY.
- ▲ - Indicates sites at elevations higher than or equal to the target property.
- ◆ - Indicates sites at elevations lower than the target property.
- ⬆ - Coal Gasification Sites (if requested)
- ☒ - National Priority List Sites
- ☒ - Landfill Sites



- /// - 100-year flood zone
- /// - 500-year flood zone
- ⚡ - Power transmission lines
- ⚡ - Oil & Gas pipelines

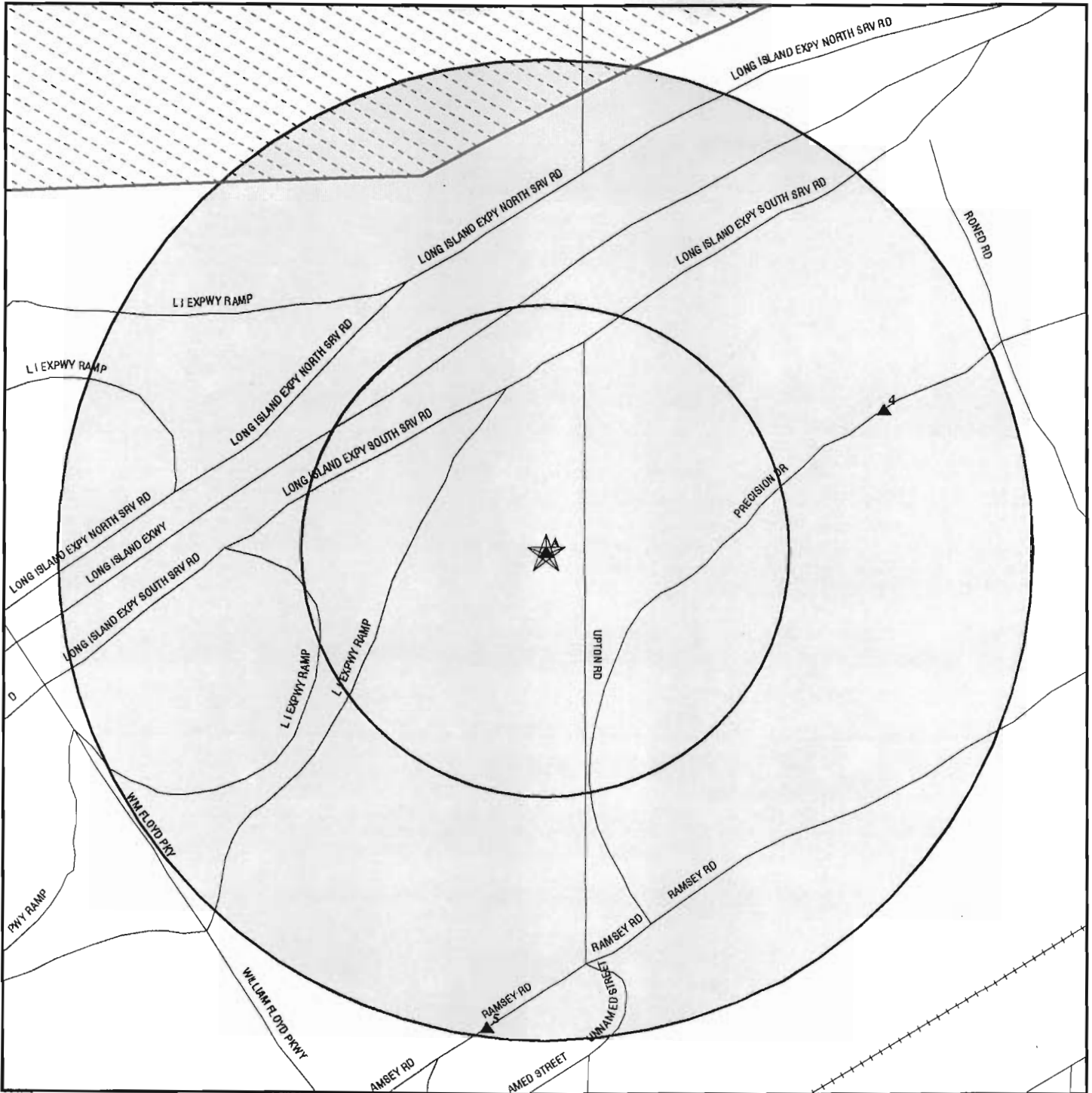


TARGET PROPERTY:	960102	CUSTOMER:	General Consol. Industries
ADDRESS:	26 Precision Dr.	CONTACT:	Tom P. Smyth
CITY/STATE/ZIP:	Shirley NY 11967	INQUIRY #:	0154848.1r
LAT/LONG:	40.8441 / 72.8868	DATE:	January 15, 1997 5:36 pm

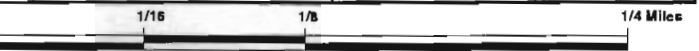
DETAIL MAP

- **Displays a quarter mile radius around the target property and provides a close-up view.**
- **Includes all geographic attributes available in the computer mapping system (i.e., street names, address ranges).**
- **Helps locate "orphan" sites, those sites with insufficient address information such that they can only be identified as within the zip code, city, or county of the target property.**

DETAIL MAP - 0154848.1r - General Consol. Industries



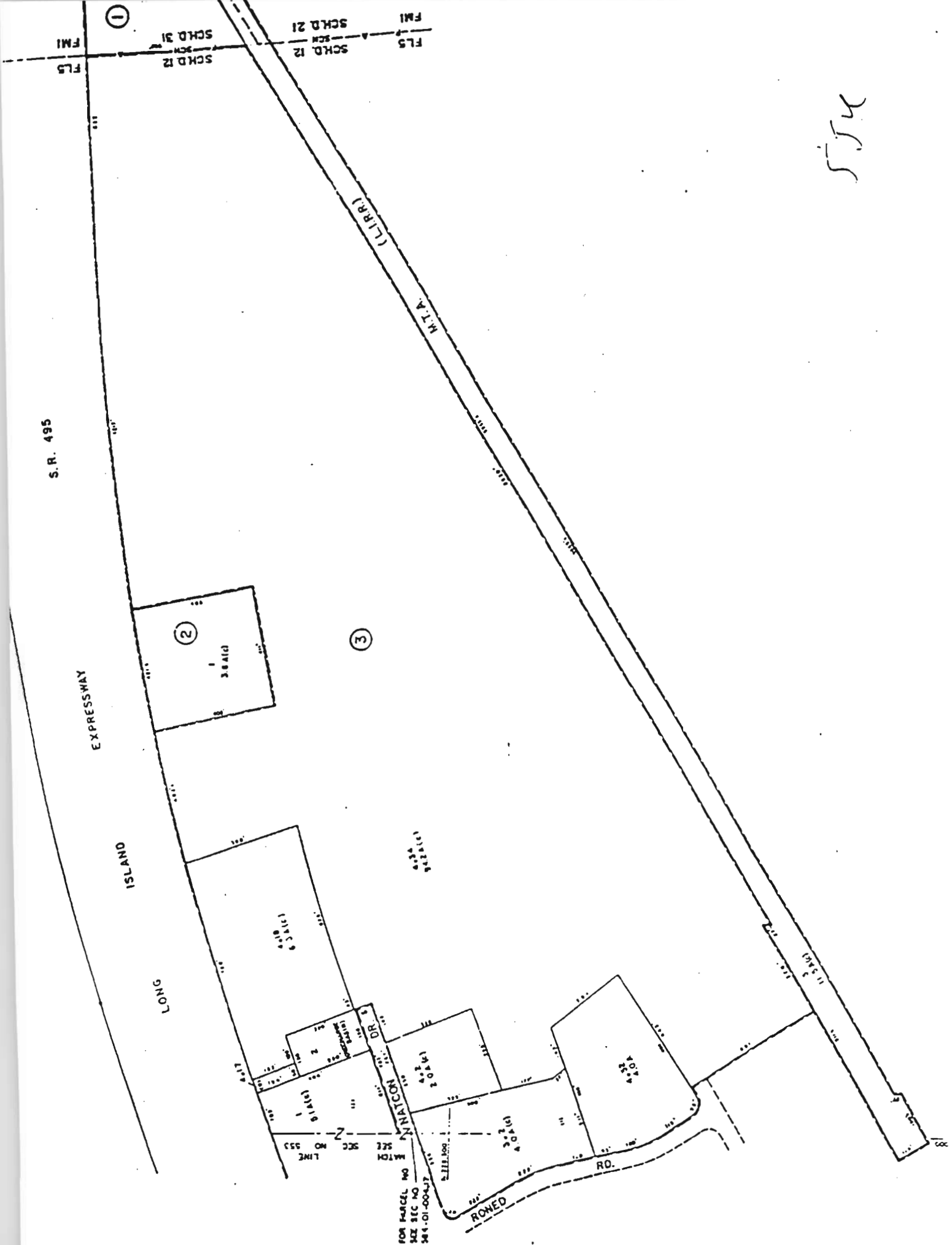
- ★ - Indicates TARGET PROPERTY.
- ▲ - Indicates sites at elevations higher than or equal to the target property.
- ◆ - Indicates sites at elevations lower than the target property.
- ⚡ - Coal Gasification Sites (if requested)
- 🏠 - Sensitive Receptors
- 🗑️ - National Priority List Sites
- 🗑️ - Landfill Sites



- 🌊 - 100-year flood zone
- 🌊 - 500-year flood zone
- ⚡ - Power transmission lines
- 🛢️ - Oil & Gas pipelines

TARGET PROPERTY:	960102	CUSTOMER:	General Consol. Industries
ADDRESS:	26 Precision Dr.	CONTACT:	Tom P. Smyth
CITY/STATE/ZIP:	Shirley NY 11967	INQUIRY #:	0154848.1r
LAT/LONG:	40.8441 / 72.8868	DATE:	January 15, 1997 5:39 pm

574



505

33

NOTICE
 MAINTENANCE, ALTERATIONS, SALE OR
 DISTRIBUTION OF ANY PORTION OF THE
 SYSTEM SHALL BE THE RESPONSIBILITY OF THE
 USER WITHOUT LIABILITY TO THE SERVICE AGENCY
 OR THE PROPERTY TAX SERVICE AGENCY.

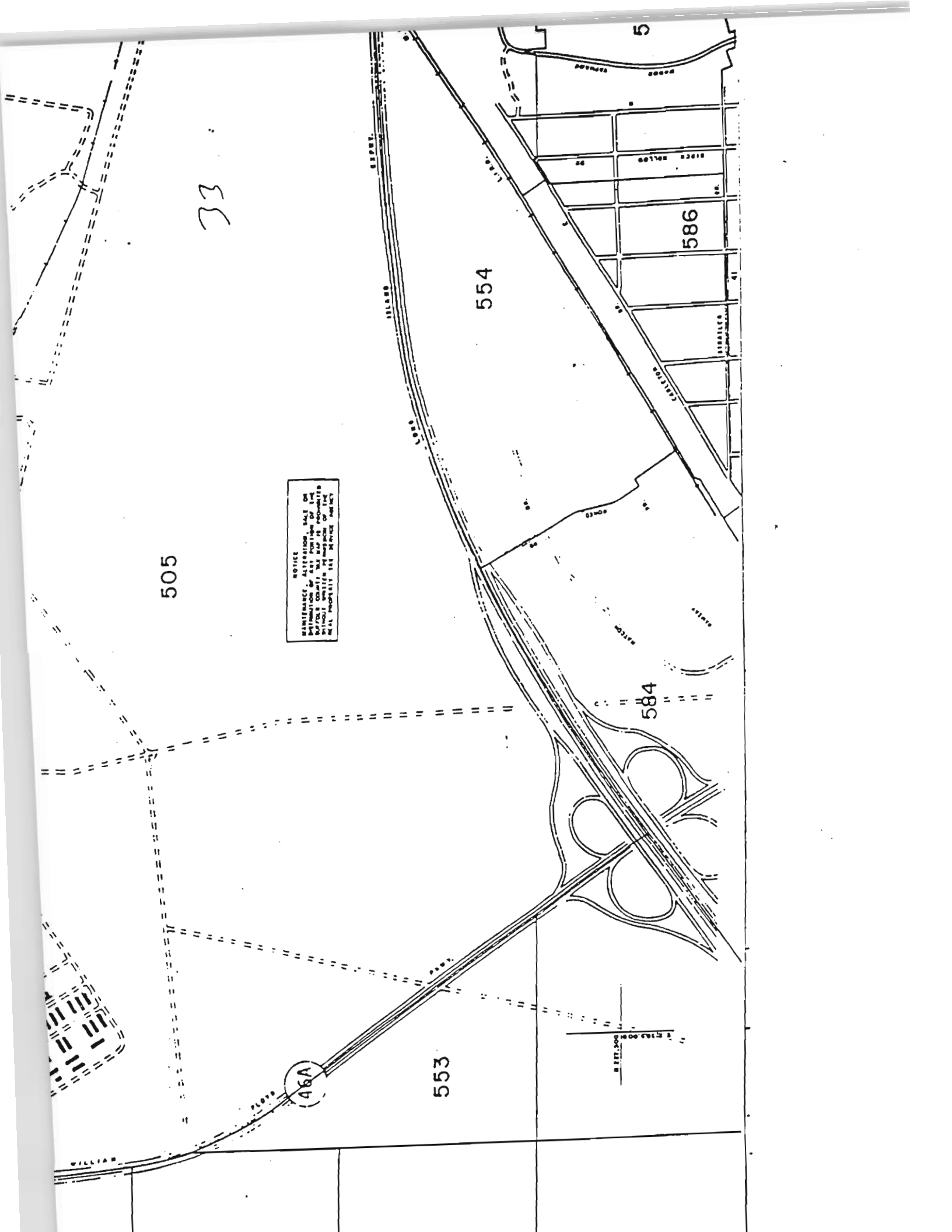
554

586

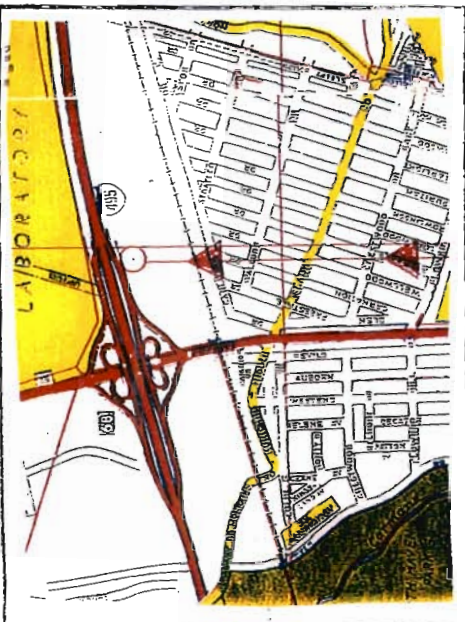
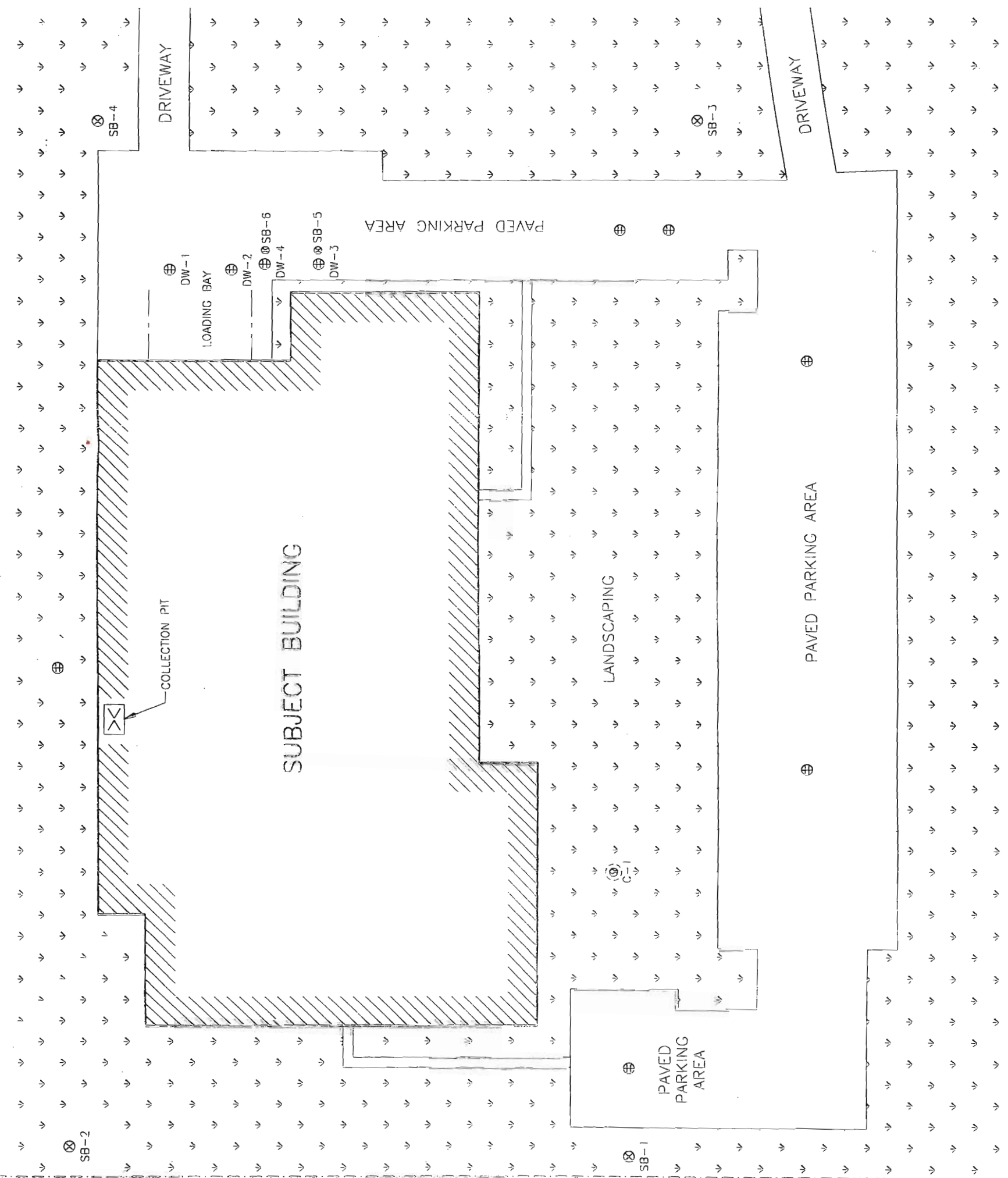
584

553

46A



LONG ISLAND EXPRESSWAY SERVICE ROAD



LOCATION MAP

LEGEND

- PROPERTY LINE
- BUILDING BORDER
- CONCRETE WALL
- SITE PROPERTY LINE
- ⊕ DRYWELL
- ⊕ DW-1 LOCATION OF DRYWELL (DW) SAMPLE
- ⊗ SB-1 LOCATION OF SOIL BORING (SB) SAMPLE
- ⊕ C-1 LOCATION OF CESSPOOL (C) SAMPLE

GENERAL CONSOLIDATED INDUSTRIES INC.
 125 BAYLIS ROAD
 MELVILLE, NEW YORK 11747
 1-800-842-5073
Environmental & Engineering Consultants

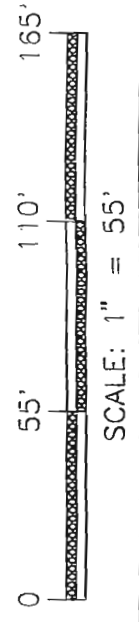
FIGURE 3 - SITE PLAN

LOCATION: 28 PRECISION DRIVE
 SHIRLEY, NEW YORK

CLIENT: MR. EUGENE KEMPEY

SECTION: 584.00 BLOCK: 01.00 LOT: 04.034

PROJECT:	FIGURE 3 - SITE PLAN	
LOCATION:	28 PRECISION DRIVE SHIRLEY, NEW YORK	
CLIENT:	MR. EUGENE KEMPEY	
DRAWN BY: JA	DATE: 6/6/96	PROJECT NUMBER: 960102
CHECKED BY: MB	DATE: 6/6/96	DRAWING NO.: 960102SP
SCALE:	1" = 95'	SHEET NO.: 1 OF 1



APPENDIX B - HISTORICAL AGENCY RECORDS

Department: _____

I hereby apply to inspect the following RECORD. (Please describe the record sought, if possible, supply a date, a file title, tax map number (where applicable), and other information that will help locate the record desired).

All records pertaining to property located at 28 Precision Drive, Shirley, New York including storage tank records, registration, tank tests, permits, etc.

Signature of Applicant and Printed Name: John Smyth Date of Application: August 9, 1995
Address: General Consolidated Industries, Inc Documents to be reviewed: Yes No
1 Route 110 E. Farminqdale 11735 Documents to be copied: Yes No
There is a charge of .25¢ per copy. Payable before release of documents.
PHONE NUMBER: 694-7878

A copy of this form will be mailed to you indicating your request is being processed.

SECTION 2 - FOR USE BY AGENCY FREEDOM OF INFORMATION OFFICER ONLY

Records not possessed or maintained by this Agency.

Records cannot be found after diligent search.

Denied. Reason for denial: _____ (Insert # corresponding to applicable reason for denial as listed on the reverse side of this form.)

Receipt of this request is acknowledged. You will receive a response as quickly as possible. Please allow (15) business days for processing before contacting this office.

Note: The Public Officer's Law requires that a municipality respond to this request within five (5) business days. However, there is no specific time limit as to time to produce the documents.

<u>Signature</u>	<u>Title</u>	<u>Date</u>
_____	_____	_____

SECTION 3 - NOTICE TO APPLICANT

YOU HAVE A RIGHT TO APPEAL A DENIAL OF THIS APPLICATION IN WRITING TO THE OFFICE OF THE TOWN CLERK, STANLEY ALLAN, 205 So. Ocean Avenue, Patchogue, NY 11772 - (516) 654-7822 WITHIN 30 DAYS OF THE DENIAL. THE TOWN CLERK WILL RESPOND TO YOU IN WRITING WITHIN SEVEN BUSINESS DAYS OF RECEIPT OF YOUR APPEAL.

COUNTY OF SUFFOLK



ROBERT J. GAFFNEY
SUFFOLK COUNTY EXECUTIVE

MARY E. HIBBERD, M.D., M.P.H.
COMMISSIONER

DEPARTMENT OF HEALTH SERVICES
DIVISION OF PUBLIC HEALTH

August 16, 1995

Ms. Karen A. Farrell
General Consolidated Industries, Inc.
1111 Route 110
East Farmingdale, NY 11735

Re: 1) Precision Concepts
2) Luipold Pharmaceuticals

Dear Ms. Farrell:

I am in receipt of your Application for Public Access to Records dated August 9, 1995.

Please call Mr. Otto Reneberg, Public Health Engineer, at telephone number 854-2537 and make an appointment to inspect the files in his office.

If you have any questions, or if I may be of further assistance, please call me at telephone number 853-3056.

Sincerely yours,

A handwritten signature in cursive script, appearing to read "Richard A. Sandstrom".

Richard A. Sandstrom
Freedom of Information Officer

RAS:cts

cc: Mr. Otto Reneberg

SECTION I. TO BE COMPLETED BY APPLICANT

INSTRUCTIONS TO APPLICANT: Please complete Section I of a four-part set of this form. Carbon paper is not required. Return the form to the agency Freedom of Information Officer. The Freedom of Information Officer will return the original (white copy) to you as a response to your request, or will give you part 4 as an interim response.

FREEDOM OF INFORMATION OFFICER: Richard A. Sandstrom
AGENCY NAME: Suffolk County Department of Health Services
AGENCY ADDRESS: 225 Rabro Dr. E., Hauppauge, NY 11788

HEREBY APPLY TO INSPECT THE FOLLOWING RECORD. (Please describe the record sought. If possible, supply file title, a file title and number, and any other information that will help locate the record desired);
LEUPTOLD PHARMACEUTICALS
records pertaining to property located at 28 Precision Drive, Shirley, Suffolk County, of Brookhaven, including storage tank records, registration, tank tests, violations, etc.

Signature of Applicant and Printed Name: *Karen A. Farrell*
Applicant Represents: *Decision Concepts 26 Precision Dr. Shirley, NY 11962*
Applicant's Mailing Address: *Route 110 East Farmingdale, New York, 11735*
Date of Application: *August 9, 1995*

SECTION II. FOR USE BY AGENCY FREEDOM OF INFORMATION OFFICER ONLY

- Approved
- Records not possessed or maintained by this agency.
- Records cannot be found after diligent search.
- Denied. Reason for denial. _____ (Insert number corresponding to applicable reason for denial as listed on the reverse side of this form. Further detail may also be provided on the reverse.)
- Receipt of this request is acknowledged. There will be a delay in supplying the requested record until _____ for the following reason: _____

Signature: *[Signature]* Title: Freedom of Information Officer Date: *8/15/95*

SECTION III. NOTICE TO APPLICANT

YOU HAVE A RIGHT TO APPEAL A DENIAL OF THIS APPLICATION IN WRITING TO THE OFFICE OF THE COUNTY ATTORNEY WITHIN 30 DAYS OF THE DENIAL. INFORMATION AS TO THE PERSON TO CONTACT IS SHOWN BELOW. THE CONTACTED PERSON MUST RESPOND TO YOU IN WRITING WITHIN TEN BUSINESS DAYS OF RECEIPT OF YOUR APPEAL.

Suffolk County Attorney
Building 15B
North County Complex
Hauppauge, N.Y. 11788

Business Telephone
853
(516) 260-4049

APPENDIX C - ASTM & FEDERAL DATABASE SEARCHES

MAP FINDINGS SUMMARY SHOWING
ALL SITES

Database	Target Property	Search Distance (Miles)	< 1/8	1/8 - 1/4	1/4 - 1/2	1/2 - 1	> 1	Total Plotted
NPL		1.000	1	0	0	0	NR	1
RCRIS-TSD		1.000	1	0	0	0	NR	1
State Haz. Waste		1.000	0	0	0	0	NR	0
CERCLIS		0.500	1	0	0	NR	NR	1
CERC-NFRAP	TP		NR	NR	NR	NR	NR	0
CORRACTS		1.000	1	0	0	0	NR	1
State Landfill		0.500	0	0	0	NR	NR	0
LUST		0.500	1	0	0	NR	NR	1
UST		0.250	1	0	NR	NR	NR	1
RAATS	TP		NR	NR	NR	NR	NR	0
RCRIS Sm. Quan. Gen.		0.250	0	1	NR	NR	NR	1
RCRIS Lg. Quan. Gen.		0.250	1	0	NR	NR	NR	1
HMIRS	TP		NR	NR	NR	NR	NR	0
PADS	TP		NR	NR	NR	NR	NR	0
ERNS	TP		NR	NR	NR	NR	NR	0
FINDS	TP		NR	NR	NR	NR	NR	0
TRIS	TP		NR	NR	NR	NR	NR	0
NPL Liens	TP		NR	NR	NR	NR	NR	0
TSCA	TP		NR	NR	NR	NR	NR	0
MLTS	TP		NR	NR	NR	NR	NR	0
NY Spills		1.000	0	0	0	0	NR	0
ROD		1.000	0	0	0	0	NR	0
CONSENT		1.000	0	0	0	0	NR	0
Coal Gas		1.000	0	0	0	0	NR	0

TP = Target Property

NR = Not Requested at this Search Distance

* Sites may be listed in more than one database

MAP FINDINGS SUMMARY SHOWING
ONLY SITES HIGHER THAN OR THE SAME ELEVATION AS TP

Database	Target Property	Search Distance (Miles)	< 1/8	1/8 - 1/4	1/4 - 1/2	1/2 - 1	> 1	Total Plotted
NPL		1.000	0	0	0	0	NR	0
RCRIS-TSD		1.000	0	0	0	0	NR	0
State Haz. Waste		1.000	0	0	0	0	NR	0
CERCLIS		0.500	0	0	0	NR	NR	0
CERC-NFRAP	TP		NR	NR	NR	NR	NR	0
CORRACTS		1.000	0	0	0	0	NR	0
State Landfill		0.500	0	0	0	NR	NR	0
LUST		0.500	0	0	0	NR	NR	0
UST		0.250	0	0	NR	NR	NR	0
RAATS	TP		NR	NR	NR	NR	NR	0
RCRIS Sm. Quan. Gen.		0.250	0	1	NR	NR	NR	1
RCRIS Lg. Quan. Gen.		0.250	0	0	NR	NR	NR	0
HMIRS	TP		NR	NR	NR	NR	NR	0
PADS	TP		NR	NR	NR	NR	NR	0
ERNS	TP		NR	NR	NR	NR	NR	0
FINDS	TP		NR	NR	NR	NR	NR	0
TRIS	TP		NR	NR	NR	NR	NR	0
NPL Liens	TP		NR	NR	NR	NR	NR	0
TSCA	TP		NR	NR	NR	NR	NR	0
MLTS	TP		NR	NR	NR	NR	NR	0
NY Spills		1.000	0	0	0	0	NR	0
ROD		1.000	0	0	0	0	NR	0
CONSENT		1.000	0	0	0	0	NR	0
Coal Gas		1.000	0	0	0	0	NR	0

TP = Target Property

NR = Not Requested at this Search Distance

* Sites may be listed in more than one database

MAP FINDINGS

Map ID
Direction
Distance
Elevation

Site

Database(s)

EDR ID Number
EPA ID Number

Coal Gas Site Search: No site was found in a search of Real Property Scan's ENVIROHAZ database.

NPL
Region

BROOKHAVEN NATIONAL LABORATORY (USDOE)
53 BELL AVE
UPTON, NY 11973

PADS
CERCLIS
FINDS
NPL
RCRIS-LQG
TRIS
RCRIS-TSD
RAATS
CORRACTS
UST
LUST
AST

CERCLIS Classification Data:

Site Incident Category: FEDERAL FACILITY Federal Facility: YES
Ownership Status: FEDERALLY OWNED NPL Status: CURRENTLY ON THE FINAL NPL
EPA Notes: ACT. RESEARCH FAC. OPER BY DOE. ACT LAB & WASTE DSPL FAC., INACTIVE
LDLF CONTAINING HAZARDOUS WASTES, TCE AS WEED KIL -LER, STRONTIUM-90
ACCIDENTALLY INJTD INTO GRDWTR IN 1960, OTHER RADIOACTIVE RELEASES,
SOME OF WHICH ARE FED PERMITTED.

CERCLIS Assessment History:

Assessment:	DISCOVERY	Completed:	02/24/1987
Assessment:	PRELIMINARY ASSESSMENT	Completed:	03/03/1987
Assessment:	HAZARD RANKING DETERMINED	Completed:	04/18/1988
Assessment:	PROPOSAL TO NPL	Completed:	07/14/1989
Assessment:	FINAL LISTING ON NPL	Completed:	11/21/1989
Assessment:	REMOVAL ACTION	Completed:	11/03/1993
Assessment:	REMOVAL ACTION	Completed:	Not reported
Assessment:	REMOVAL ACTION	Completed:	Not reported
Assessment:	COMBINED RI/FS	Completed:	Not reported
Assessment:	RECORD OF DECISION	Completed:	Not reported
Assessment:	REMEDIAL DESIGN	Completed:	Not reported
Assessment:	REMEDIAL ACTION	Completed:	Not reported
Assessment:	REMEDIAL ACTION	Completed:	Not reported
Assessment:	REMEDIAL ACTION	Completed:	Not reported
Assessment:	REMEDIAL ACTION	Completed:	Not reported
Assessment:	REMEDIAL DESIGN	Completed:	Not reported
Assessment:	REMEDIAL DESIGN	Completed:	Not reported
Assessment:	COMBINED RI/FS	Completed:	Not reported
Assessment:	RECORD OF DECISION	Completed:	Not reported
Assessment:	REMEDIAL DESIGN	Completed:	Not reported
Assessment:	REMEDIAL ACTION	Completed:	Not reported
Assessment:	COMBINED RI/FS	Completed:	Not reported
Assessment:	REMEDIAL ACTION	Completed:	Not reported
Assessment:	REMEDIAL DESIGN	Completed:	Not reported
Assessment:	RECORD OF DECISION	Completed:	Not reported
Assessment:	REMOVAL ACTION	Completed:	06/10/1994
Assessment:	COMBINED RI/FS	Completed:	Not reported
Assessment:	REMEDIAL ACTION	Completed:	Not reported
Assessment:	REMEDIAL DESIGN	Completed:	Not reported
Assessment:	RECORD OF DECISION	Completed:	Not reported

MAP FINDINGS

Map ID
Direction
Distance
Elevation

Site Database(s) EDR ID Number
EPA ID Number

BROOKHAVEN NATIONAL LABORATORY (USDOE) (Continued)

1000333087

Assessment:	COMBINED RI/FS	Completed:	Not reported
Assessment:	REMEDIAL ACTION	Completed:	Not reported
Assessment:	REMEDIAL DESIGN	Completed:	Not reported
Assessment:	RECORD OF DECISION	Completed:	Not reported

CERCLIS Site Status:

This site is currently under investigation by the government to assess the extent of further action

CERCLIS Alias Name(s):

BROOKHAVEN NATIONAL LABORATORY

CORRACTS Data:

Prioritization: High
Status: RCRA Facility Investigation Completed, RFI Workplan Approved

NPL:

ID:	02NY158
Date Listed:	11/21/89 (FINAL)
EPAID:	Not reported
Haz. Rank Score:	39.92
Status:	LISTED ON NPL
Rank:	Not reported
Group:	10
Ownership:	Federal
Permit:	Not reported
Site Activities:	Landfill, Comm./Indus.
Site Activities:	Chemical Process/Manuf.
Site Condition:	Contam. Ground Water
Waste Type:	Chlorinated Organics
Waste Type:	Metals
Waste Type:	Radioactive Substances
Waste Form:	Not reported
Contaminant:	Media Affected:
IRON AND COMPOUNDS, NOS (FE)	Ground Water
LEAD (PB)	Ground Water
STRONTIUM AND COMPOUNDS, NOS (SR)	Ground Water
CHLOROFORM	Ground Water
1,1,1-TRICHLOROETHANE	Ground Water
Distance to nearest Population:	Not reported
Population within a 1 Mile Radius:	Not reported
Population within a 2 Mile Radius:	Not reported
Population within a 4 Mile Radius:	Not reported
Vertical Distance to Aquifer:	Not reported
Ground Water Use:	Used as Drinking Water, Alternative Source not Available
Distance to nearest Surface Water:	Not reported

RCRIS:

Owner: US DEPT OF ENERGY
(516) 345-3424

Contact: GAIL PENNY
(516) 282-3429

Waste	Quantity	Info Source	Waste	Quantity	Info Source
D000	Not reported	Notification	D001	Not reported	Notification
D002	Not reported	Notification	D003	Not reported	Notification
D006	Not reported	Notification	D007	Not reported	Notification

MAP FINDINGS

Map ID
 Direction
 Distance
 Elevation

Site

Database(s)
 EDR ID Number
 EPA ID Number

BROOKHAVEN NATIONAL LABORATORY (USDOE) (Continued)

1000333087

D019	Not reported	Notification	D020	Not reported	Notification
D021	Not reported	Notification	D022	Not reported	Notification
D023	Not reported	Notification	D024	Not reported	Notification
D025	Not reported	Notification	D026	Not reported	Notification
D027	Not reported	Notification	D028	Not reported	Notification
D029	Not reported	Notification	D030	Not reported	Notification
D031	Not reported	Notification	D032	Not reported	Notification
D033	Not reported	Notification	D034	Not reported	Notification
D035	Not reported	Notification	D036	Not reported	Notification
D037	Not reported	Notification	D038	Not reported	Notification
D039	Not reported	Notification	D040	Not reported	Notification
D041	Not reported	Notification	D042	Not reported	Notification
F001	Not reported	Notification	F002	Not reported	Notification
F003	Not reported	Notification	F004	Not reported	Notification
F005	Not reported	Notification	P001	Not reported	Notification
P003	Not reported	Notification	P010	Not reported	Notification
P012	Not reported	Notification	P015	Not reported	Notification
P022	Not reported	Notification	P023	Not reported	Notification
P028	Not reported	Notification	P030	Not reported	Notification
P044	Not reported	Notification	P048	Not reported	Notification
P050	Not reported	Notification	P054	Not reported	Notification
P056	Not reported	Notification	P066	Not reported	Notification
P070	Not reported	Notification	P076	Not reported	Notification
P078	Not reported	Notification	P082	Not reported	Notification
P084	Not reported	Notification	P087	Not reported	Notification
P089	Not reported	Notification	P095	Not reported	Notification
P096	Not reported	Notification	P104	Not reported	Notification
P105	Not reported	Notification	P119	Not reported	Notification
U001	Not reported	Notification	U002	Not reported	Notification
U003	Not reported	Notification	U006	Not reported	Notification
U007	Not reported	Notification	U009	Not reported	Notification
U012	Not reported	Notification	U017	Not reported	Notification
U018	Not reported	Notification	U019	Not reported	Notification
U021	Not reported	Notification	U022	Not reported	Notification
U024	Not reported	Notification	U025	Not reported	Notification
U026	Not reported	Notification	U027	Not reported	Notification
U028	Not reported	Notification	U031	Not reported	Notification
U035	Not reported	Notification	U043	Not reported	Notification
U044	Not reported	Notification	U048	Not reported	Notification
U049	Not reported	Notification	U050	Not reported	Notification
U051	Not reported	Notification	U052	Not reported	Notification
U053	Not reported	Notification	U056	Not reported	Notification
U057	Not reported	Notification	U058	Not reported	Notification
U061	Not reported	Notification	U067	Not reported	Notification
U069	Not reported	Notification	U070	Not reported	Notification
U071	Not reported	Notification	U072	Not reported	Notification
U076	Not reported	Notification	U077	Not reported	Notification
U078	Not reported	Notification	U080	Not reported	Notification
U086	Not reported	Notification	U089	Not reported	Notification
U091	Not reported	Notification	U094	Not reported	Notification
U095	Not reported	Notification	U097	Not reported	Notification
U098	Not reported	Notification	U099	Not reported	Notification
U103	Not reported	Notification	U107	Not reported	Notification
U108	Not reported	Notification	U109	Not reported	Notification

MAP FINDINGS

Map ID	Direction	Distance	Elevation	Site	Database(s)	EDR ID Number	EPA ID Number
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BROOKHAVEN NATIONAL LABORATORY (USDOE) (Continued)

1000333087

U112	Not reported	Notification	U115	Not reported	Notification
U117	Not reported	Notification	U118	Not reported	Notification
U120	Not reported	Notification	U122	Not reported	Notification
U123	Not reported	Notification	U125	Not reported	Notification
U126	Not reported	Notification	U130	Not reported	Notification
U133	Not reported	Notification	U134	Not reported	Notification
U135	Not reported	Notification	U138	Not reported	Notification
U140	Not reported	Notification	U144	Not reported	Notification
U146	Not reported	Notification	U147	Not reported	Notification
U151	Not reported	Notification	U154	Not reported	Notification
U157	Not reported	Notification	U159	Not reported	Notification
U161	Not reported	Notification	U162	Not reported	Notification
U165	Not reported	Notification	U167	Not reported	Notification
U168	Not reported	Notification	U169	Not reported	Notification
U172	Not reported	Notification	U174	Not reported	Notification
U176	Not reported	Notification	U177	Not reported	Notification
U179	Not reported	Notification	U186	Not reported	Notification
U188	Not reported	Notification	U193	Not reported	Notification
U196	Not reported	Notification	U201	Not reported	Notification
U202	Not reported	Notification	U203	Not reported	Notification
U207	Not reported	Notification	U208	Not reported	Notification
U209	Not reported	Notification	U210	Not reported	Notification
U211	Not reported	Notification	U213	Not reported	Notification
U217	Not reported	Notification	U218	Not reported	Notification
U219	Not reported	Notification	U220	Not reported	Notification
U221	Not reported	Notification	U222	Not reported	Notification
U223	Not reported	Notification	U226	Not reported	Notification
U227	Not reported	Notification	U228	Not reported	Notification
U233	Not reported	Notification	U236	Not reported	Notification
U237	Not reported	Notification	U238	Not reported	Notification
U239	Not reported	Notification	D000	.00100 (P)	Part A
D001	799.29500 (P)	Part A	D002	3.62800 (M)	Part A
D003	99.91200 (P)	Part A	D006	18.14400 (M)	Part A
D007	18.14400 (M)	Part A	F001	99.91200 (P)	Part A
F002	4.97800 (P)	Part A	F003	4.97800 (P)	Part A
F004	4.97800 (P)	Part A	F005	4.97800 (P)	Part A
P001	.99100 (P)	Part A	P003	4.97800 (P)	Part A
P010	.99100 (P)	Part A	P012	2.99600 (P)	Part A
P015	.99100 (P)	Part A	P022	19.97800 (P)	Part A
P023	.99100 (P)	Part A	P028	1.98200 (P)	Part A
P030	19.97800 (P)	Part A	P044	.08800 (P)	Part A
P048	4.97800 (P)	Part A	P050	.99100 (P)	Part A
P054	4.97800 (P)	Part A	P056	1.98200 (P)	Part A
P066	.99100 (P)	Part A	P070	24.97800 (P)	Part A
P076	4.97800 (P)	Part A	P078	14.97800 (P)	Part A
P082	1.98200 (P)	Part A	P084	.99100 (P)	Part A
P087	.99100 (P)	Part A	P089	199.82400 (P)	Part A
P095	2.99600 (P)	Part A	P096	4.97800 (P)	Part A
P104	.99100 (P)	Part A	P105	9.97800 (P)	Part A
P119	.99100 (P)	Part A	U001	24.97800 (P)	Part A
U002	799.29500 (P)	Part A	U003	9.97800 (P)	Part A
U006	1.98200 (P)	Part A	U007	4.97800 (P)	Part A
U009	24.97800 (P)	Part A	U012	19.97800 (P)	Part A
U017	24.97800 (P)	Part A	U018	99.91200 (P)	Part A

MAP FINDINGS

Map ID	Direction	Distance	Elevation	Site	Database(s)	EDR ID Number	EPA ID Number
BROOKHAVEN NATIONAL LABORATORY (USDOE) (Continued)						1000333087	
U019		299.73600 (P)		Part A	U021	.99100 (P)	Part A
U022		59.93400 (P)		Part A	U024	1.98200 (P)	Part A
U025		1.98200 (P)		Part A	U026	1.98200 (P)	Part A
U027		1.98200 (P)		Part A	U028	1.98200 (P)	Part A
U031		19.97800 (P)		Part A	U035	.99100 (P)	Part A
U043		.00100 (P)		Part A	U044	99.91200 (P)	Part A
U048		.99100 (P)		Part A	U049	1.98200 (P)	Part A
U050		59.93400 (P)		Part A	U051	9.97800 (P)	Part A
U052		4.97800 (P)		Part A	U053	4.97800 (P)	Part A
U056		39.95600 (P)		Part A	U057	24.97800 (P)	Part A
U058		1.98200 (P)		Part A	U061	.00100 (P)	Part A
U067		19.97800 (P)		Part A	U069	4.97800 (P)	Part A
U070		4.97800 (P)		Part A	U071	4.97800 (P)	Part A
U072		4.97800 (P)		Part A	U076	19.97800 (P)	Part A
U077		19.97800 (P)		Part A	U078	4.97800 (P)	Part A
U080		1.98200 (P)		Part A	U086	1.98200 (P)	Part A
U089		.19800 (P)		Part A	U091	.19800 (P)	Part A
U094		199.82400 (P)		Part A	U095	.19800 (P)	Part A
U097		10.96900 (P)		Part A	U098	.19800 (P)	Part A
U099		.19800 (P)		Part A	U103	.99100 (P)	Part A
U107		39.95600 (P)		Part A	U108	299.73600 (P)	Part A
U109		4.97800 (P)		Part A	U112	9.97800 (P)	Part A
U115		19.97800 (P)		Part A	U117	29.95600 (P)	Part A
U118		.99100 (P)		Part A	U120	59.93400 (P)	Part A
U122		199.82400 (P)		Part A	U123	4.97800 (P)	Part A
U125		4.97800 (P)		Part A	U126	1.98200 (P)	Part A
U130		4.97800 (P)		Part A	U133	2.99600 (P)	Part A
U134		99.91200 (P)		Part A	U135	19.97800 (P)	Part A
U138		9.97800 (P)		Part A	U140	29.95600 (P)	Part A
U144		.99100 (P)		Part A	U146	.99100 (P)	Part A
U147		24.97800 (P)		Part A	U151	99.91200 (P)	Part A
U154		999.11900 (P)		Part A	U157	59.93400 (P)	Part A
U159		9.97800 (P)		Part A	U161	9.97800 (P)	Part A
U162		499.55900 (P)		Part A	U165	9.97800 (P)	Part A
U167		.00100 (P)		Part A	U168	.00100 (P)	Part A
U169		1.98200 (P)		Part A	U172	.08800 (P)	Part A
U174		.08800 (P)		Part A	U176	.08800 (P)	Part A
U177		9.97800 (P)		Part A	U179	.08800 (P)	Part A
U186		.99100 (P)		Part A	U188	49.95600 (P)	Part A
U193		.08800 (P)		Part A	U196	9.97800 (P)	Part A
U201		.99100 (P)		Part A	U202	.08800 (P)	Part A
U203		.08800 (P)		Part A	U207	.99100 (P)	Part A
U208		4.97800 (P)		Part A	U209	4.97800 (P)	Part A
U210		4.97800 (P)		Part A	U211	29.95600 (P)	Part A
U213		2.99600 (P)		Part A	U217	2.99600 (P)	Part A
U218		.99100 (P)		Part A	U219	2.99600 (P)	Part A
U220		1998.23800 (P)		Part A	U221	4.97800 (P)	Part A
U222		.99100 (P)		Part A	U223	2.99600 (P)	Part A
U226		1998.23800 (P)		Part A	U227	19.97800 (P)	Part A
U228		9.97800 (P)		Part A	U233	4.97800 (P)	Part A
U236		.99100 (P)		Part A	U237	.99100 (P)	Part A
U238		.99100 (P)		Part A	U239	99.91200 (P)	Part A

(P) = Pounds , (K) = Kilograms , (M) = Metric Tons , (T) = Tons , (N) = Not Reported

Other Pertinent Environmental Activity Identified at Site:

- facility has active water discharge permits
- facility has an emission permit under the Clean Air Act
- civil judicial and administrative enforcement cases against facility
- facility is a PCB generator, storer, transporter or permitted disposer

MAP FINDINGS

Map ID
 Direction
 Distance
 Elevation

Site

Database(s)

EDR ID Number
 EPA ID Number

BROOKHAVEN NATIONAL LABORATORY (USDOE) (Continued)

1000333087

LUST:

Facility ID:	8704034	Spill Date:	08/14/1987
First notified:	REGIONAL OFFICE	Material class:	PETROLEUM
Material spilled:	#2 FUEL	Release QTY:	0.00 GALLONS
Water body affected:	Not reported	Origin:	NON-COMM\INST
Resource affected:	GROUNDWATER	Notifier:	TANK TESTER
Basin of spill:	17	Project ID:	0
Cleaner:	SPILLER	Date Cleaned:	06/02/1994
Initiated clean up:	Not reported	Close Date:	06/02/1994
Last Inspection:	Not reported	Investigator:	T/T/F
UST Trust Fund:	No		
Status:	MEANS ITS BEEN RESOLVED	Penalty:	NO PENALTY
Quantity recovered:	0.00		
Cause:	TANK FAILURE		
Emergency response:	IT WAS NOT TAKEN		
Facility status:	COMPLETED SPILL [SPILL IS CLEANED UP AND ALL PAPERWORK IS COMPLETED]		

MAP FINDINGS

Map ID
 Direction
 Distance
 Elevation

Site Database(s) EDR ID Number
 EPA ID Number

BROOKHAVEN NATIONAL LABORATORY (USDOE) (Continued)

1000333087

UST:

Facility ID:	1-1700	Facility Tel:	(516) 282-3711
Facility Contact:	M. SUE DAVIS		
Facility Status:	ACTIVE FACILITY		
Facility Type:	APARTMENT BUILDING		
Total Tanks:	25	SWIS Number:	47
Emergency Contact:	M. SUE DAVIS	Emergency Tel:	(516) 282-3711
Owner:	DEPARTMENT OF ENERGY (DOE) BROOKHAVEN AREA OFFICE UPTON, NY 11973-		
Owner Tel:	(516) 282-3424	Owner Type:	4
Mailing Address:	DEPARTMENT OF ENERGY (DOE) 53 BELL AVENUE BROOKHAVEN AREA OFFICE NY 11973-		
Mailing Tel:	(516) 282-3424	Mail Contact:	CARSON L. NEALY-ACTING AREA MG
Legal Agent:	CARSON L. NEALY 53 BELL AVENUE UPTON, NY 11973-		
File Date:	Not reported	Data File:	Major Oil Storage
Latitude:	40 52 03	Longitude:	72 52 17
CBS Number:	1-000263	SPDES Num:	0-005835
Operator Name:	Not reported		
Certif Issue Date:	Not reported	Cert Exp Date:	03/31/1995
Owner Subtype:	Not reported	Total Capacity:	19992
Avg Daily Throughput:	14086	License Status:	Did Not Apply
Product Transfer:	A	License Issued:	04/14/1993
Install date:	01/77		
Tank ID:	7		
Tank Product:	OTHER		
Tank 1 Location:	ABOVEGROUND ON SADDLES LEGS, STILTS, RACK, OR CRADLE		
Tank 2 Location:	Not reported		
Tank Type:	STEEL/CARBON STEEL		
Tank Status:	IN SERVICE		
Tank Int Protection:	NONE		
Piping Type:	STEEL/IRON	Piping Int Prot:	NONE
Piping Location:	Aboveground		
Leak Detection:	GROUNDWATER WELL		
Piping Ext Protection:	PAINTED/ASPHALT COATING		
Tank Ext Protection:	PAINTED/ASPHALT COATING		
Tank Sec Containmt:	EARTHEN DIKE/NATURAL LINER		
Piping Sec Containmt:	Not reported		
Overfill Protection:	24	Disp Method:	Suction
Next Test Date:	Not reported	Close Date:	Not reported
Percent of HW:	Not reported		
Chemical:	Not reported		
District:	Not reported	Section:	Not reported
Block:	Not reported	Lots 1 and 2:	Not reported
Tank Content:	Not reported	Tank Constr:	Not reported
Fill Type:	Not reported	Issue Date:	Not reported
Remove Date:	Not reported	Owner Mark:	Not reported
Certification:	Not reported	Inspect Date:	Not reported
Inspector:	Not reported	Insp Result:	Not reported

MAP FINDINGS

Map ID
 Direction
 Distance
 Elevation

Site

Database(s)

EDR ID Number
 EPA ID Number

BROOKHAVEN NATIONAL LABORATORY (USDOE) (Continued)

1000333087

Fed ID Number:	Not reported	Renew Status:	Not reported
Renew Date:	Not reported	Tank Screen:	Not reported
Facility Screen:	Not reported	Owner Screen:	Not reported
Lot:	Not reported	Constr Mat:	Not reported
Piping Type:	Not reported	Material Type:	Not reported
Testing Method:	Not reported		
Next Test:	Not reported	Action:	Not reported
Application Rcvd:	01/06/1993	Updated:	Not reported

MAP FINDINGS

Map ID
Direction
Distance
Elevation

Site

Database(s)

EDR ID Number
EPA ID Number

BROOKHAVEN NATIONAL LABORATORY (USDOE) (Continued)

1000333087

Facility ID:	1-1700	Facility Tel:	(516) 282-3711
Facility Contact:	M. SUE DAVIS		
Facility Status:	ACTIVE FACILITY		
Facility Type:	APARTMENT BUILDING		
Total Tanks:	25	SWIS Number:	47
Emergency Contact:	M. SUE DAVIS	Emergency Tel:	(516) 282-3711
Owner:	DEPARTMENT OF ENERGY (DOE) BROOKHAVEN AREA OFFICE UPTON, NY 11973-		
Owner Tel:	(516) 282-3424	Owner Type:	4
Mailing Address:	DEPARTMENT OF ENERGY (DOE) 53 BELL AVENUE BROOKHAVEN AREA OFFICE NY 11973-		
Mailing Tel:	(516) 282-3424	Mail Contact:	CARSON L. NEALY-ACTING AREA MG
Legal Agent:	CARSON L. NEALY 53 BELL AVENUE UPTON, NY 11973-		
File Date:	Not reported	Data File:	Major Oil Storage
Latitude:	40 52 03	Longitude:	72 52 17
CBS Number:	1-000263	SPDES Num:	0-005835
Operator Name:	Not reported		
Certif Issue Date:	Not reported	Cert Exp Date:	03/31/1995
Owner Subtype:	Not reported	Total Capacity:	59976
Avg Daily Throughput:	14086	License Status:	Did Not Apply
Product Transfer:	A	License Issued:	04/14/1993
Install date:	01/82		
Tank ID:	8		
Tank Product:	OTHER		
Tank 1 Location:	ABOVEGROUND ON SADDLES LEGS, STILTS, RACK, OR CRADLE		
Tank 2 Location:	Not reported		
Tank Type:	STEEL/CARBON STEEL		
Tank Status:	IN SERVICE		
Tank Int Protection:	NONE		
Piping Type:	STEEL/IRON	Piping Int Prot:	NONE
Piping Location:	Aboveground		
Leak Detection:	GROUNDWATER WELL/NONE		
Piping Ext Protection:	PAINTED/ASPHALT COATING		
Tank Ext Protection:	PAINTED/ASPHALT COATING		
Tank Sec Containmt:	EARTHEN DIKE/NATURAL LINER		
Piping Sec Containmt:	Not reported		
Overfill Protection:	24	Disp Method:	Suction
Next Test Date:	Not reported	Close Date:	Not reported
Percent of HW:	Not reported		
Chemical:	Not reported		
District:	Not reported	Section:	Not reported
Block:	Not reported	Lots 1 and 2:	Not reported
Tank Content:	Not reported	Tank Constr:	Not reported
Fill Type:	Not reported	Issue Date:	Not reported
Remove Date:	Not reported	Owner Mark:	Not reported
Certification:	Not reported	Inspect Date:	Not reported
Inspector:	Not reported	Insp Result:	Not reported

MAP FINDINGS

Map ID	Direction	Distance	Elevation	Site	Database(s)	EDR ID Number	EPA ID Number
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BROOKHAVEN NATIONAL LABORATORY (USDOE) (Continued)

1000333087

Fed ID Number:	Not reported	Renew Status:	Not reported
Renew Date:	Not reported	Tank Screen:	Not reported
Facility Screen:	Not reported	Owner Screen:	Not reported
Lot:	Not reported	Constr Mat:	Not reported
Piping Type:	Not reported	Material Type:	Not reported
Testing Method:	Not reported		
Next Test:	Not reported	Action:	Not reported
Application Rcvd:	01/06/1993	Updated:	Not reported

MAP FINDINGS

Map ID
 Direction
 Distance
 Elevation

Site Database(s) EDR ID Number
 EPA ID Number

BROOKHAVEN NATIONAL LABORATORY (USDOE) (Continued)

1000333087

Facility ID:	1-1700	Facility Tel:	(516) 282-3711
Facility Contact:	M. SUE DAVIS		
Facility Status:	ACTIVE FACILITY		
Facility Type:	APARTMENT BUILDING		
Total Tanks:	25	SWIS Number:	47
Emergency Contact:	M. SUE DAVIS	Emergency Tel:	(516) 282-3711
Owner:	DEPARTMENT OF ENERGY (DOE) BROOKHAVEN AREA OFFICE UPTON, NY 11973-		
Owner Tel:	(516) 282-3424	Owner Type:	4
Mailing Address:	DEPARTMENT OF ENERGY (DOE) 53 BELL AVENUE BROOKHAVEN AREA OFFICE NY 11973-		
Mailing Tel:	(516) 282-3424	Mail Contact:	CARSON L. NEALY-ACTING AREA MG
Legal Agent:	CARSON L. NEALY 53 BELL AVENUE UPTON, NY 11973-		
File Date:	Not reported	Data File:	Major Oil Storage
Latitude:	40 52 03	Longitude:	72 52 17
CBS Number:	1-000263	SPDES Num:	0-005835
Operator Name:	Not reported		
Certif Issue Date:	Not reported	Cert Exp Date:	03/31/1995
Owner Subtype:	Not reported	Total Capacity:	400000
Avg Daily Throughput:	14086	License Status:	Did Not Apply
Product Transfer:	A	License Issued:	04/14/1993
Install date:	08/89		
Tank ID:	9		
Tank Product:	EMPTY		
Tank 1 Location:	ABOVEGROUND		
Tank 2 Location:	Not reported		
Tank Type:	STEEL/CARBON STEEL		
Tank Status:	TEMPORARILY OUT OF SERVICE		
Tank Int Protection:	NONE		
Piping Type:	STEEL/IRON	Piping Int Prot:	NONE
Piping Location:	Aboveground		
Leak Detection:	GROUNDWATER WELL		
Piping Ext Protection:	PAINTED/ASPHALT COATING		
Tank Ext Protection:	PAINTED/ASPHALT COATING		
Tank Sec Containmt:	EARTHEN DIKE/NATURAL LINER		
Piping Sec Containmt:	Not reported		
Overfill Protection:	04	Disp Method:	Suction
Next Test Date:	Not reported	Close Date:	Not reported
Percent of HW:	Not reported		
Chemical:	Not reported		
District:	Not reported	Section:	Not reported
Block:	Not reported	Lots 1 and 2:	Not reported
Tank Content:	Not reported	Tank Constr:	Not reported
Fill Type:	Not reported	Issue Date:	Not reported
Remove Date:	Not reported	Owner Mark:	Not reported
Certification:	Not reported	Inspect Date:	Not reported
Inspector:	Not reported	Insp Result:	Not reported

MAP FINDINGS

Map ID	Direction	Distance	Elevation	Site	Database(s)	EDR ID Number	EPA ID Number
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BROOKHAVEN NATIONAL LABORATORY (USDOE) (Continued)

1000333087

Fed ID Number:	Not reported	Renew Status:	Not reported
Renew Date:	Not reported	Tank Screen:	Not reported
Facility Screen:	Not reported	Owner Screen:	Not reported
Lot:	Not reported	Constr Mat:	Not reported
Piping Type:	Not reported	Material Type:	Not reported
Testing Method:	Not reported		
Next Test:	Not reported	Action:	Not reported
Application Rcvd:	01/06/1993	Updated:	Not reported

MAP FINDINGS

Map ID
 Direction
 Distance
 Elevation

Site Database(s) EDR ID Number
 EPA ID Number

BROOKHAVEN NATIONAL LABORATORY (USDOE) (Continued)

1000333087

Facility ID:	1-1700	Facility Tel:	(516) 282-3711
Facility Contact:	M. SUE DAVIS		
Facility Status:	ACTIVE FACILITY		
Facility Type:	APARTMENT BUILDING		
Total Tanks:	25	SWIS Number:	47
Emergency Contact:	M. SUE DAVIS	Emergency Tel:	(516) 282-3711
Owner:	DEPARTMENT OF ENERGY (DOE) BROOKHAVEN AREA OFFICE UPTON, NY 11973-		
Owner Tel:	(516) 282-3424	Owner Type:	4
Mailing Address:	DEPARTMENT OF ENERGY (DOE) 53 BELL AVENUE BROOKHAVEN AREA OFFICE NY 11973-		
Mailing Tel:	(516) 282-3424	Mail Contact:	CARSON L. NEALY-ACTING AREA MG
Legal Agent:	CARSON L. NEALY 53 BELL AVENUE UPTON, NY 11973-		
File Date:	Not reported	Data File:	Major Oil Storage
Latitude:	40 52 03	Longitude:	72 52 17
CBS Number:	1-000263	SPDES Num:	0-005835
Operator Name:	Not reported		
Certif Issue Date:	Not reported	Cert Exp Date:	03/31/1995
Owner Subtype:	Not reported	Total Capacity:	600000
Avg Daily Throughput:	14086	License Status:	Did Not Apply
Product Transfer:	A	License Issued:	04/14/1993
Install date:	08/89		
Tank ID:	10		
Tank Product:	EMPTY		
Tank 1 Location:	ABOVEGROUND		
Tank 2 Location:	Not reported		
Tank Type:	STEEL/CARBON STEEL		
Tank Status:	TEMPORARILY OUT OF SERVICE		
Tank Int Protection:	NONE	Piping Int Prot:	NONE
Piping Type:	STEEL/IRON		
Piping Location:	Aboveground		
Leak Detection:	GROUNDWATER WELL		
Piping Ext Protection:	PAINTED/ASPHALT COATING		
Tank Ext Protection:	PAINTED/ASPHALT COATING		
Tank Sec Containmt:	EARTHEN DIKE/NATURAL LINER		
Piping Sec Containmt:	Not reported		
Overfill Protection:	04	Disp Method:	Suction
Next Test Date:	Not reported	Close Date:	Not reported
Percent of HW:	Not reported		
Chemical:	Not reported		
District:	Not reported	Section:	Not reported
Block:	Not reported	Lots 1 and 2:	Not reported
Tank Content:	Not reported	Tank Constr:	Not reported
Fill Type:	Not reported	Issue Date:	Not reported
Remove Date:	Not reported	Owner Mark:	Not reported
Certification:	Not reported	Inspect Date:	Not reported
Inspector:	Not reported	Insp Result:	Not reported

MAP FINDINGS

Map ID
 Direction
 Distance
 Elevation

Site

Database(s)

EDR ID Number
 EPA ID Number

BROOKHAVEN NATIONAL LABORATORY (USDOE) (Continued)

1000333087

Fed ID Number:	Not reported	Renew Status:	Not reported
Renew Date:	Not reported	Tank Screen:	Not reported
Facility Screen:	Not reported	Owner Screen:	Not reported
Lot:	Not reported	Constr Mat:	Not reported
Piping Type:	Not reported	Material Type:	Not reported
Testing Method:	Not reported		
Next Test:	Not reported	Action:	Not reported
Application Rcvd:	01/06/1993	Updated:	Not reported

MAP FINDINGS

Map ID
 Direction
 Distance
 Elevation

Site

Database(s)

EDR ID Number
 EPA ID Number

BROOKHAVEN NATIONAL LABORATORY (USDOE) (Continued)

1000333087

Facility ID:	1-1700	Facility Tel:	(516) 282-3711
Facility Contact:	M. SUE DAVIS		
Facility Status:	ACTIVE FACILITY		
Facility Type:	APARTMENT BUILDING		
Total Tanks:	25	SWIS Number:	47
Emergency Contact:	M. SUE DAVIS	Emergency Tel:	(516) 282-3711
Owner:	DEPARTMENT OF ENERGY (DOE) BROOKHAVEN AREA OFFICE UPTON, NY 11973-		
Owner Tel:	(516) 282-3424	Owner Type:	4
Mailing Address:	DEPARTMENT OF ENERGY (DOE) 53 BELL AVENUE BROOKHAVEN AREA OFFICE NY 11973-		
Mailing Tel:	(516) 282-3424	Mail Contact:	CARSON L. NEALY-ACTING AREA MG
Legal Agent:	CARSON L. NEALY 53 BELL AVENUE UPTON, NY 11973-		
File Date:	Not reported	Data File:	Major Oil Storage
Latitude:	40 52 03	Longitude:	72 52 17
CBS Number:	1-000263	SPDES Num:	0-005835
Operator Name:	Not reported		
Certif Issue Date:	Not reported	Cert Exp Date:	03/31/1995
Owner Subtype:	Not reported	Total Capacity:	60000
Avg Daily Throughput:	14086	License Status:	Did Not Apply
Product Transfer:	A	License Issued:	04/14/1993
Install date:	08/89		
Tank ID:	11		
Tank Product:	EMPTY		
Tank 1 Location:	ABOVEGROUND ON SADDLES LEGS, STILTS, RACK, OR CRADLE		
Tank 2 Location:	Not reported		
Tank Type:	STEEL/CARBON STEEL		
Tank Status:	TEMPORARILY OUT OF SERVICE		
Tank Int Protection:	NONE		
Piping Type:	STEEL/IRON	Piping Int Prot:	NONE
Piping Location:	Aboveground		
Leak Detection:	GROUNDWATER WELL		
Piping Ext Protection:	PAINTED/ASPHALT COATING		
Tank Ext Protection:	PAINTED/ASPHALT COATING		
Tank Sec Containmt:	EARTHEN DIKE/NATURAL LINER		
Piping Sec Containmt:	Not reported		
Overfill Protection:	04	Disp Method:	Suction
Next Test Date:	Not reported	Close Date:	Not reported
Percent of HW:	Not reported		
Chemical:	Not reported		
District:	Not reported	Section:	Not reported
Block:	Not reported	Lots 1 and 2:	Not reported
Tank Content:	Not reported	Tank Constr:	Not reported
Fill Type:	Not reported	Issue Date:	Not reported
Remove Date:	Not reported	Owner Mark:	Not reported
Certification:	Not reported	Inspect Date:	Not reported
Inspector:	Not reported	Insp Result:	Not reported

MAP FINDINGS

Map ID
 Direction
 Distance
 Elevation

Site

Database(s)

EDR ID Number
 EPA ID Number

BROOKHAVEN NATIONAL LABORATORY (USDOE) (Continued)

1000333087

Fed ID Number:	Not reported	Renew Status:	Not reported
Renew Date:	Not reported	Tank Screen:	Not reported
Facility Screen:	Not reported	Owner Screen:	Not reported
Lot:	Not reported	Constr Mat:	Not reported
Piping Type:	Not reported	Material Type:	Not reported
Testing Method:	Not reported		
Next Test:	Not reported	Action:	Not reported
Application Rcvd:	01/06/1993	Updated:	Not reported

MAP FINDINGS

Map ID
 Direction
 Distance
 Elevation

Site

Database(s)

EDR ID Number
 EPA ID Number

BROOKHAVEN NATIONAL LABORATORY (USDOE) (Continued)

1000333087

Facility ID:	1-1700	Facility Tel:	(516) 282-3711
Facility Contact:	M. SUE DAVIS		
Facility Status:	ACTIVE FACILITY		
Facility Type:	APARTMENT BUILDING		
Total Tanks:	25	SWIS Number:	47
Emergency Contact:	M. SUE DAVIS	Emergency Tel:	(516) 282-3711
Owner:	DEPARTMENT OF ENERGY (DOE) BROOKHAVEN AREA OFFICE UPTON, NY 11973-		
Owner Tel:	(516) 282-3424	Owner Type:	4
Mailing Address:	DEPARTMENT OF ENERGY (DOE) 53 BELL AVENUE BROOKHAVEN AREA OFFICE NY 11973-		
Mailing Tel:	(516) 282-3424	Mail Contact:	CARSON L. NEALY-ACTING AREA MG
Legal Agent:	CARSON L. NEALY 53 BELL AVENUE UPTON, NY 11973-		
File Date:	Not reported	Data File:	Major Oil Storage
Latitude:	40 52 03	Longitude:	72 52 17
CBS Number:	1-000263	SPDES Num:	0-005835
Operator Name:	Not reported		
Certif Issue Date:	Not reported	Cert Exp Date:	03/31/1995
Owner Subtype:	Not reported	Total Capacity:	59976
Avg Daily Throughput:	14086	License Status:	Did Not Apply
Product Transfer:	A	License Issued:	04/14/1993
Install date:	01/82		
Tank ID:	12		
Tank Product:	NOS 1,2, OR 4 FUEL OIL		
Tank 1 Location:	ABOVEGROUND ON SADDLES LEGS, STILTS, RACK, OR CRADLE		
Tank 2 Location:	Not reported		
Tank Type:	STEEL/CARBON STEEL		
Tank Status:	IN SERVICE		
Tank Int Protection:	NONE		
Piping Type:	STEEL/IRON	Piping Int Prot:	NONE
Piping Location:	Aboveground		
Leak Detection:	GROUNDWATER WELL		
Piping Ext Protection:	PAINTED/ASPHALT COATING		
Tank Ext Protection:	PAINTED/ASPHALT COATING		
Tank Sec Containmt:	EARTHEN DIKE/NATURAL LINER		
Piping Sec Containmt:	Not reported		
Overfill Protection:	24	Disp Method:	Suction
Next Test Date:	Not reported	Close Date:	Not reported
Percent of HW:	Not reported		
Chemical:	Not reported		
District:	Not reported	Section:	Not reported
Block:	Not reported	Lots 1 and 2:	Not reported
Tank Content:	Not reported	Tank Constr:	Not reported
Fill Type:	Not reported	Issue Date:	Not reported
Remove Date:	Not reported	Owner Mark:	Not reported
Certification:	Not reported	Inspect Date:	Not reported
Inspector:	Not reported	Insp Result:	Not reported

MAP FINDINGS

Map ID	Direction	Distance	Elevation	Site	Database(s)	EDR ID Number	EPA ID Number
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BROOKHAVEN NATIONAL LABORATORY (USDOE) (Continued)

1000333087

Fed ID Number:	Not reported	Renew Status:	Not reported
Renew Date:	Not reported	Tank Screen:	Not reported
Facility Screen:	Not reported	Owner Screen:	Not reported
Lot:	Not reported	Constr Mat:	Not reported
Piping Type:	Not reported	Material Type:	Not reported
Testing Method:	Not reported		
Next Test:	Not reported	Action:	Not reported
Application Rcvd:	01/06/1993	Updated:	Not reported

MAP FINDINGS

Map ID
Direction
Distance
Elevation

Site Database(s) EDR ID Number
EPA ID Number

BROOKHAVEN NATIONAL LABORATORY (USDOE) (Continued)

1000333087

Facility ID:	1-1700	Facility Tel:	(516) 282-3711
Facility Contact:	M. SUE DAVIS		
Facility Status:	ACTIVE FACILITY		
Facility Type:	APARTMENT BUILDING		
Total Tanks:	25	SWIS Number:	47
Emergency Contact:	M. SUE DAVIS	Emergency Tel:	(516) 282-3711
Owner:	DEPARTMENT OF ENERGY (DOE) BROOKHAVEN AREA OFFICE UPTON, NY 11973-		
Owner Tel:	(516) 282-3424	Owner Type:	4
Mailing Address:	DEPARTMENT OF ENERGY (DOE) 53 BELL AVENUE BROOKHAVEN AREA OFFICE NY 11973-		
Mailing Tel:	(516) 282-3424	Mail Contact:	CARSON L. NEALY-ACTING AREA MG
Legal Agent:	CARSON L. NEALY 53 BELL AVENUE UPTON, NY 11973-		
File Date:	Not reported	Data File:	Major Oil Storage
Latitude:	40 52 03	Longitude:	72 52 17
CBS Number:	1-000263	SPDES Num:	0-005835
Operator Name:	Not reported		
Certif Issue Date:	Not reported	Cert Exp Date:	03/31/1995
Owner Subtype:	Not reported	Total Capacity:	10000
Avg Daily Throughput:	14086	License Status:	Did Not Apply
Product Transfer:	A	License Issued:	04/14/1993
Install date:	01/81		
Tank ID:	13		
Tank Product:	OTHER		
Tank 1 Location:	ABOVEGROUND ON SADDLES LEGS, STILTS, RACK, OR CRADLE		
Tank 2 Location:	Not reported		
Tank Type:	STEEL/CARBON STEEL		
Tank Status:	IN SERVICE		
Tank Int Protection:	NONE		
Piping Type:	STEEL/IRON	Piping Int Prot:	NONE
Piping Location:	Aboveground		
Leak Detection:	GROUNDWATER WELL		
Piping Ext Protection:	PAINTED/ASPHALT COATING		
Tank Ext Protection:	PAINTED/ASPHALT COATING		
Tank Sec Containmt:	EARTHEN DIKE/NATURAL LINER		
Piping Sec Containmt:	Not reported		
Overfill Protection:	24	Disp Method:	Suction
Next Test Date:	Not reported	Close Date:	Not reported
Percent of HW:	Not reported		
Chemical:	Not reported		
District:	Not reported	Section:	Not reported
Block:	Not reported	Lots 1 and 2:	Not reported
Tank Content:	Not reported	Tank Constr:	Not reported
Fill Type:	Not reported	Issue Date:	Not reported
Remove Date:	Not reported	Owner Mark:	Not reported
Certification:	Not reported	Inspect Date:	Not reported
Inspector:	Not reported	Insp Result:	Not reported

MAP FINDINGS

Map ID
 Direction
 Distance
 Elevation

Site

Database(s)

EDR ID Number
 EPA ID Number

BROOKHAVEN NATIONAL LABORATORY (USDOE) (Continued)

1000333087

Fed ID Number:	Not reported	Renew Status:	Not reported
Renew Date:	Not reported	Tank Screen:	Not reported
Facility Screen:	Not reported	Owner Screen:	Not reported
Lot:	Not reported	Constr Mat:	Not reported
Piping Type:	Not reported	Material Type:	Not reported
Testing Method:	Not reported		
Next Test:	Not reported	Action:	Not reported
Application Rcvd:	01/06/1993	Updated:	Not reported

MAP FINDINGS

Map ID
Direction
Distance
Elevation

Site Database(s) EDR ID Number
EPA ID Number

BROOKHAVEN NATIONAL LABORATORY (USDOE) (Continued)

1000333087

Facility ID:	1-1700	Facility Tel:	(516) 282-3711
Facility Contact:	M. SUE DAVIS		
Facility Status:	ACTIVE FACILITY		
Facility Type:	APARTMENT BUILDING		
Total Tanks:	25	SWIS Number:	47
Emergency Contact:	M. SUE DAVIS	Emergency Tel:	(516) 282-3711
Owner:	DEPARTMENT OF ENERGY (DOE) BROOKHAVEN AREA OFFICE UPTON, NY 11973-		
Owner Tel:	(516) 282-3424	Owner Type:	4
Mailing Address:	DEPARTMENT OF ENERGY (DOE) 53 BELL AVENUE BROOKHAVEN AREA OFFICE NY 11973-		
Mailing Tel:	(516) 282-3424	Mail Contact:	CARSON L. NEALY-ACTING AREA MG
Legal Agent:	CARSON L. NEALY 53 BELL AVENUE UPTON, NY 11973-		
File Date:	Not reported	Data File:	Major Oil Storage
Latitude:	40 52 03	Longitude:	72 52 17
CBS Number:	1-000263	SPDES Num:	0-005835
Operator Name:	Not reported		
Certif Issue Date:	Not reported	Cert Exp Date:	03/31/1995
Owner Subtype:	Not reported	Total Capacity:	10000
Avg Daily Throughput:	14086	License Status:	Did Not Apply
Product Transfer:	A	License Issued:	04/14/1993
Install date:	01/81		
Tank ID:	14		
Tank Product:	OTHER		
Tank 1 Location:	ABOVEGROUND ON SADDLES LEGS, STILTS, RACK, OR CRADLE		
Tank 2 Location:	Not reported		
Tank Type:	STEEL/CARBON STEEL		
Tank Status:	IN SERVICE		
Tank Int Protection:	NONE		
Piping Type:	STEEL/IRON	Piping Int Prot:	NONE
Piping Location:	Aboveground		
Leak Detection:	GROUNDWATER WELL		
Piping Ext Protection:	PAINTED/ASPHALT COATING		
Tank Ext Protection:	PAINTED/ASPHALT COATING		
Tank Sec Containmt:	EARTHEN DIKE/NATURAL LINER		
Piping Sec Containmt:	Not reported		
Overfill Protection:	24	Disp Method:	Suction
Next Test Date:	Not reported	Close Date:	Not reported
Percent of HW:	Not reported		
Chemical:	Not reported		
District:	Not reported	Section:	Not reported
Block:	Not reported	Lots 1 and 2:	Not reported
Tank Content:	Not reported	Tank Constr:	Not reported
Fill Type:	Not reported	Issue Date:	Not reported
Remove Date:	Not reported	Owner Mark:	Not reported
Certification:	Not reported	Inspect Date:	Not reported
Inspector:	Not reported	Insp Result:	Not reported

MAP FINDINGS

Map ID	Direction	Distance	Elevation	Site	Database(s)	EDR ID Number	EPA ID Number
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BROOKHAVEN NATIONAL LABORATORY (USDOE) (Continued)

1000333087

Fed ID Number:	Not reported	Renew Status:	Not reported
Renew Date:	Not reported	Tank Screen:	Not reported
Facility Screen:	Not reported	Owner Screen:	Not reported
Lot:	Not reported	Constr Mat:	Not reported
Piping Type:	Not reported	Material Type:	Not reported
Testing Method:	Not reported		
Next Test:	Not reported	Action:	Not reported
Application Rcvd:	01/06/1993	Updated:	Not reported

MAP FINDINGS

Map ID
Direction
Distance
Elevation

EDR ID Number
EPA ID Number

BROOKHAVEN NATIONAL LABORATORY (USDOE) (Continued)

1000333087

Facility ID:	1-1700	Facility Tel:	(516) 282-3711
Facility Contact:	M. SUE DAVIS		
Facility Status:	ACTIVE FACILITY		
Facility Type:	APARTMENT BUILDING		
Total Tanks:	25	SWIS Number:	47
Emergency Contact:	M. SUE DAVIS	Emergency Tel:	(516) 282-3711
Owner:	DEPARTMENT OF ENERGY (DOE) BROOKHAVEN AREA OFFICE UPTON, NY 11973-		
Owner Tel:	(516) 282-3424	Owner Type:	4
Mailing Address:	DEPARTMENT OF ENERGY (DOE) 53 BELL AVENUE BROOKHAVEN AREA OFFICE NY 11973-		
Mailing Tel:	(516) 282-3424	Mail Contact:	CARSON L. NEALY-ACTING AREA MG
Legal Agent:	CARSON L. NEALY 53 BELL AVENUE UPTON, NY 11973-		
File Date:	Not reported	Data File:	Major Oil Storage
Latitude:	40 52 03	Longitude:	72 52 17
CBS Number:	1-000263	SPDES Num:	0-005835
Operator Name:	Not reported		
Certif Issue Date:	Not reported	Cert Exp Date:	03/31/1995
Owner Subtype:	Not reported	Total Capacity:	10000
Avg Daily Throughput:	14086	License Status:	Did Not Apply
Product Transfer:	A	License Issued:	04/14/1993
Install date:	01/81		
Tank ID:	15		
Tank Product:	OTHER		
Tank 1 Location:	ABOVEGROUND ON SADDLES LEGS, STILTS, RACK, OR CRADLE		
Tank 2 Location:	Not reported		
Tank Type:	STEEL/CARBON STEEL		
Tank Status:	IN SERVICE		
Tank Int Protection:	NONE		
Piping Type:	STEEL/IRON	Piping Int Prot:	NONE
Piping Location:	Aboveground		
Leak Detection:	GROUNDWATER WELL		
Piping Ext Protection:	PAINTED/ASPHALT COATING		
Tank Ext Protection:	PAINTED/ASPHALT COATING		
Tank Sec Containmt:	EARTHEN DIKE/NATURAL LINER		
Piping Sec Containmt:	Not reported		
Overfill Protection:	24	Disp Method:	Suction
Next Test Date:	Not reported	Close Date:	Not reported
Percent of HW:	Not reported		
Chemical:	Not reported		
District:	Not reported	Section:	Not reported
Block:	Not reported	Lots 1 and 2:	Not reported
Tank Content:	Not reported	Tank Constr:	Not reported
Fill Type:	Not reported	Issue Date:	Not reported
Remove Date:	Not reported	Owner Mark:	Not reported
Certification:	Not reported	Inspect Date:	Not reported
Inspector:	Not reported	Insp Result:	Not reported

MAP FINDINGS

Map ID
 Direction
 Distance
 Elevation

Site

Database(s)

EDR ID Number
 EPA ID Number

BROOKHAVEN NATIONAL LABORATORY (USDOE) (Continued)

1000333087

Fed ID Number:	Not reported	Renew Status:	Not reported
Renew Date:	Not reported	Tank Screen:	Not reported
Facility Screen:	Not reported	Owner Screen:	Not reported
Lot:	Not reported	Constr Mat:	Not reported
Piping Type:	Not reported	Material Type:	Not reported
Testing Method:	Not reported		
Next Test:	Not reported	Action:	Not reported
Application Rcvd:	01/06/1993	Updated:	Not reported

MAP FINDINGS

Map ID
Direction
Distance
Elevation

Site Database(s) EDR ID Number
EPA ID Number

BROOKHAVEN NATIONAL LABORATORY (USDOE) (Continued)

1000333087

Facility ID:	1-1700	Facility Tel:	(516) 282-3711
Facility Contact:	M. SUE DAVIS		
Facility Status:	ACTIVE FACILITY		
Facility Type:	APARTMENT BUILDING		
Total Tanks:	25	SWIS Number:	47
Emergency Contact:	M. SUE DAVIS	Emergency Tel:	(516) 282-3711
Owner:	DEPARTMENT OF ENERGY (DOE) BROOKHAVEN AREA OFFICE UPTON, NY 11973-		
Owner Tel:	(516) 282-3424	Owner Type:	4
Mailing Address:	DEPARTMENT OF ENERGY (DOE) 53 BELL AVENUE BROOKHAVEN AREA OFFICE NY 11973-		
Mailing Tel:	(516) 282-3424	Mail Contact:	CARSON L. NEALY-ACTING AREA MG
Legal Agent:	CARSON L. NEALY 53 BELL AVENUE UPTON, NY 11973-		
File Date:	Not reported	Data File:	Major Oil Storage
Latitude:	40 52 03	Longitude:	72 52 17
CBS Number:	1-000263	SPDES Num:	0-005835
Operator Name:	Not reported		
Certif Issue Date:	Not reported	Cert Exp Date:	03/31/1995
Owner Subtype:	Not reported	Total Capacity:	10000
Avg Daily Throughput:	14086	License Status:	Did Not Apply
Product Transfer:	A	License Issued:	04/14/1993
Install date:	01/81		
Tank ID:	16		
Tank Product:	OTHER		
Tank 1 Location:	ABOVEGROUND ON SADDLES LEGS, STILTS, RACK, OR CRADLE		
Tank 2 Location:	Not reported		
Tank Type:	STEEL/CARBON STEEL		
Tank Status:	IN SERVICE		
Tank Int Protection:	NONE		
Piping Type:	STEEL/IRON	Piping Int Prot:	NONE
Piping Location:	Aboveground		
Leak Detection:	GROUNDWATER WELL		
Piping Ext Protection:	PAINTED/ASPHALT COATING		
Tank Ext Protection:	PAINTED/ASPHALT COATING		
Tank Sec Containmt:	EARTHEN DIKE/NATURAL LINER		
Piping Sec Containmt:	Not reported		
Overfill Protection:	24	Disp Method:	Suction
Next Test Date:	Not reported	Close Date:	Not reported
Percent of HW:	Not reported		
Chemical:	Not reported		
District:	Not reported	Section:	Not reported
Block:	Not reported	Lots 1 and 2:	Not reported
Tank Content:	Not reported	Tank Constr:	Not reported
Fill Type:	Not reported	Issue Date:	Not reported
Remove Date:	Not reported	Owner Mark:	Not reported
Certification:	Not reported	Inspect Date:	Not reported
Inspector:	Not reported	Insp Result:	Not reported

MAP FINDINGS

Map ID
 Direction
 Distance
 Elevation

Site

Database(s)

EDR ID Number
 EPA ID Number

BROOKHAVEN NATIONAL LABORATORY (USDOE) (Continued)

1000333087

Fed ID Number:	Not reported	Renew Status:	Not reported
Renew Date:	Not reported	Tank Screen:	Not reported
Facility Screen:	Not reported	Owner Screen:	Not reported
Lot:	Not reported	Constr Mat:	Not reported
Piping Type:	Not reported	Material Type:	Not reported
Testing Method:	Not reported		
Next Test:	Not reported	Action:	Not reported
Application Rcvd:	01/06/1993	Updated:	Not reported

MAP FINDINGS

Map ID
 Direction
 Distance
 Elevation

Site

Database(s)

EDR ID Number
 EPA ID Number

BROOKHAVEN NATIONAL LABORATORY (USDOE) (Continued)

1000333087

Facility ID:	1-1700	Facility Tel:	(516) 282-3711
Facility Contact:	M. SUE DAVIS		
Facility Status:	ACTIVE FACILITY		
Facility Type:	APARTMENT BUILDING		
Total Tanks:	25	SWIS Number:	47
Emergency Contact:	M. SUE DAVIS	Emergency Tel:	(516) 282-3711
Owner:	DEPARTMENT OF ENERGY (DOE) BROOKHAVEN AREA OFFICE UPTON, NY 11973-		
Owner Tel:	(516) 282-3424	Owner Type:	4
Mailing Address:	DEPARTMENT OF ENERGY (DOE) 53 BELL AVENUE BROOKHAVEN AREA OFFICE NY 11973-		
Mailing Tel:	(516) 282-3424	Mail Contact:	CARSON L. NEALY-ACTING AREA MG
Legal Agent:	CARSON L. NEALY 53 BELL AVENUE UPTON, NY 11973-		
File Date:	Not reported	Data File:	Major Oil Storage
Latitude:	40 52 03	Longitude:	72 52 17
CBS Number:	1-000263	SPDES Num:	0-005835
Operator Name:	Not reported		
Certif Issue Date:	Not reported	Cert Exp Date:	03/31/1995
Owner Subtype:	Not reported	Total Capacity:	10000
Avg Daily Throughput:	14086	License Status:	Did Not Apply
Product Transfer:	A	License Issued:	04/14/1993
Install date:	01/82		
Tank ID:	17		
Tank Product:	OTHER		
Tank 1 Location:	ABOVEGROUND ON SADDLES LEGS, STILTS, RACK, OR CRADLE		
Tank 2 Location:	Not reported		
Tank Type:	STEEL/CARBON STEEL		
Tank Status:	IN SERVICE		
Tank Int Protection:	NONE		
Piping Type:	STEEL/IRON	Piping Int Prot:	NONE
Piping Location:	Aboveground		
Leak Detection:	GROUNDWATER WELL		
Piping Ext Protection:	PAINTED/ASPHALT COATING		
Tank Ext Protection:	PAINTED/ASPHALT COATING		
Tank Sec Containmt:	EARTHEN DIKE/NATURAL LINER		
Piping Sec Containmt:	Not reported		
Overfill Protection:	24	Disp Method:	Suction
Next Test Date:	Not reported	Close Date:	Not reported
Percent of HW:	Not reported		
Chemical:	Not reported		
District:	Not reported	Section:	Not reported
Block:	Not reported	Lots 1 and 2:	Not reported
Tank Content:	Not reported	Tank Constr:	Not reported
Fill Type:	Not reported	Issue Date:	Not reported
Remove Date:	Not reported	Owner Mark:	Not reported
Certification:	Not reported	Inspect Date:	Not reported
Inspector:	Not reported	Insp Result:	Not reported

MAP FINDINGS

Map ID
 Direction
 Distance
 Elevation

Site

Database(s)

EDR ID Number
 EPA ID Number

BROOKHAVEN NATIONAL LABORATORY (USDOE) (Continued)

1000333087

Fed ID Number:	Not reported	Renew Status:	Not reported
Renew Date:	Not reported	Tank Screen:	Not reported
Facility Screen:	Not reported	Owner Screen:	Not reported
Lot:	Not reported	Constr Mat:	Not reported
Piping Type:	Not reported	Material Type:	Not reported
Testing Method:	Not reported		
Next Test:	Not reported	Action:	Not reported
Application Rcvd:	01/06/1993	Updated:	Not reported

MAP FINDINGS

Map ID
Direction
Distance
Elevation

Site Database(s) EDR ID Number
EPA ID Number

BROOKHAVEN NATIONAL LABORATORY (USDOE) (Continued)

1000333087

Facility ID:	1-1700	Facility Tel:	(516) 282-3711
Facility Contact:	M. SUE DAVIS		
Facility Status:	ACTIVE FACILITY		
Facility Type:	APARTMENT BUILDING		
Total Tanks:	25	SWIS Number:	47
Emergency Contact:	M. SUE DAVIS	Emergency Tel:	(516) 282-3711
Owner:	DEPARTMENT OF ENERGY (DOE) BROOKHAVEN AREA OFFICE UPTON, NY 11973-		
Owner Tel:	(516) 282-3424	Owner Type:	4
Mailing Address:	DEPARTMENT OF ENERGY (DOE) 53 BELL AVENUE BROOKHAVEN AREA OFFICE NY 11973-		
Mailing Tel:	(516) 282-3424	Mail Contact:	CARSON L. NEALY-ACTING AREA MG
Legal Agent:	CARSON L. NEALY 53 BELL AVENUE UPTON, NY 11973-		
File Date:	Not reported	Data File:	Major Oil Storage
Latitude:	40 52 03	Longitude:	72 52 17
CBS Number:	1-000263	SPDES Num:	0-005835
Operator Name:	Not reported		
Certif Issue Date:	Not reported	Cert Exp Date:	03/31/1995
Owner Subtype:	Not reported	Total Capacity:	60000
Avg Daily Throughput:	14086	License Status:	Did Not Apply
Product Transfer:	A	License Issued:	04/14/1993
Install date:	08/89		
Tank ID:	18		
Tank Product:	EMPTY		
Tank 1 Location:	ABOVEGROUND ON SADDLES LEGS, STILTS, RACK, OR CRADLE		
Tank 2 Location:	Not reported		
Tank Type:	STEEL/CARBON STEEL		
Tank Status:	TEMPORARILY OUT OF SERVICE		
Tank Int Protection:	NONE		
Piping Type:	STEEL/IRON	Piping Int Prot:	NONE
Piping Location:	Aboveground		
Leak Detection:	GROUNDWATER WELL		
Piping Ext Protection:	PAINTED/ASPHALT COATING		
Tank Ext Protection:	PAINTED/ASPHALT COATING		
Tank Sec Containmt:	EARTHEN DIKE/NATURAL LINER		
Piping Sec Containmt:	Not reported		
Overfill Protection:	04	Disp Method:	Suction
Next Test Date:	Not reported	Close Date:	Not reported
Percent of HW:	Not reported		
Chemical:	Not reported		
District:	Not reported	Section:	Not reported
Block:	Not reported	Lots 1 and 2:	Not reported
Tank Content:	Not reported	Tank Constr:	Not reported
Fill Type:	Not reported	Issue Date:	Not reported
Remove Date:	Not reported	Owner Mark:	Not reported
Certification:	Not reported	Inspect Date:	Not reported
Inspector:	Not reported	Insp Result:	Not reported

MAP FINDINGS

Map ID
 Direction
 Distance
 Elevation

Site

Database(s)

EDR ID Number
 EPA ID Number

BROOKHAVEN NATIONAL LABORATORY (USDOE) (Continued)

1000333087

Fed ID Number:	Not reported	Renew Status:	Not reported
Renew Date:	Not reported	Tank Screen:	Not reported
Facility Screen:	Not reported	Owner Screen:	Not reported
Lot:	Not reported	Constr Mat:	Not reported
Piping Type:	Not reported	Material Type:	Not reported
Testing Method:	Not reported		
Next Test:	Not reported	Action:	Not reported
Application Rcvd:	01/06/1993	Updated:	Not reported

MAP FINDINGS

Map ID
Direction
Distance
Elevation

EDR ID Number
EPA ID Number

BROOKHAVEN NATIONAL LABORATORY (USDOE) (Continued)

1000333087

Facility ID:	1-1700	Facility Tel:	(516) 282-3711
Facility Contact:	M. SUE DAVIS		
Facility Status:	ACTIVE FACILITY		
Facility Type:	APARTMENT BUILDING		
Total Tanks:	25	SWIS Number:	47
Emergency Contact:	M. SUE DAVIS	Emergency Tel:	(516) 282-3711
Owner:	DEPARTMENT OF ENERGY (DOE) BROOKHAVEN AREA OFFICE UPTON, NY 11973-		
Owner Tel:	(516) 282-3424	Owner Type:	4
Mailing Address:	DEPARTMENT OF ENERGY (DOE) 53 BELL AVENUE BROOKHAVEN AREA OFFICE NY 11973-		
Mailing Tel:	(516) 282-3424	Mail Contact:	CARSON L. NEALY-ACTING AREA MG
Legal Agent:	CARSON L. NEALY 53 BELL AVENUE UPTON, NY 11973-		
File Date:	Not reported	Data File:	Major Oil Storage
Latitude:	40 52 03	Longitude:	72 52 17
CBS Number:	1-000263	SPDES Num:	0-005835
Operator Name:	Not reported		
Certif Issue Date:	Not reported	Cert Exp Date:	03/31/1995
Owner Subtype:	Not reported	Total Capacity:	60000
Avg Daily Throughput:	14086	License Status:	Did Not Apply
Product Transfer:	A	License Issued:	04/14/1993
Install date:	08/89		
Tank ID:	19		
Tank Product:	EMPTY		
Tank 1 Location:	ABOVEGROUND ON SADDLES LEGS, STILTS, RACK, OR CRADLE		
Tank 2 Location:	Not reported		
Tank Type:	STEEL/CARBON STEEL		
Tank Status:	TEMPORARILY OUT OF SERVICE		
Tank Int Protection:	NONE		
Piping Type:	STEEL/IRON	Piping Int Prot:	NONE
Piping Location:	Aboveground		
Leak Detection:	GROUNDWATER WELL		
Piping Ext Protection:	PAINTED/ASPHALT COATING		
Tank Ext Protection:	NONE		
Tank Sec Containmt:	EARTHEN DIKE/NATURAL LINER		
Piping Sec Containmt:	Not reported		
Overfill Protection:	04	Disp Method:	Suction
Next Test Date:	Not reported	Close Date:	Not reported
Percent of HW:	Not reported		
Chemical:	Not reported		
District:	Not reported	Section:	Not reported
Block:	Not reported	Lots 1 and 2:	Not reported
Tank Content:	Not reported	Tank Constr:	Not reported
Fill Type:	Not reported	Issue Date:	Not reported
Remove Date:	Not reported	Owner Mark:	Not reported
Certification:	Not reported	Inspect Date:	Not reported
Inspector:	Not reported	Insp Result:	Not reported

MAP FINDINGS

Map ID
 Direction
 Distance
 Elevation

Site

Database(s)

EDR ID Number
 EPA ID Number

BROOKHAVEN NATIONAL LABORATORY (USDOE) (Continued)

1000333087

Fed ID Number:	Not reported	Renew Status:	Not reported
Renew Date:	Not reported	Tank Screen:	Not reported
Facility Screen:	Not reported	Owner Screen:	Not reported
Lot:	Not reported	Constr Mat:	Not reported
Piping Type:	Not reported	Material Type:	Not reported
Testing Method:	Not reported		
Next Test:	Not reported	Action:	Not reported
Application Rcvd:	01/06/1993	Updated:	Not reported

MAP FINDINGS

Map ID
Direction
Distance
Elevation

Site

Database(s)

EDR ID Number
EPA ID Number

BROOKHAVEN NATIONAL LABORATORY (USDOE) (Continued)

1000333087

Facility ID:	1-1700	Facility Tel:	(516) 282-3711
Facility Contact:	M. SUE DAVIS		
Facility Status:	ACTIVE FACILITY		
Facility Type:	APARTMENT BUILDING		
Total Tanks:	25	SWIS Number:	47
Emergency Contact:	M. SUE DAVIS	Emergency Tel:	(516) 282-3711
Owner:	DEPARTMENT OF ENERGY (DOE) BROOKHAVEN AREA OFFICE UPTON, NY 11973-		
Owner Tel:	(516) 282-3424	Owner Type:	4
Mailing Address:	DEPARTMENT OF ENERGY (DOE) 53 BELL AVENUE BROOKHAVEN AREA OFFICE NY 11973-		
Mailing Tel:	(516) 282-3424	Mail Contact:	CARSON L. NEALY-ACTING AREA MG
Legal Agent:	CARSON L. NEALY 53 BELL AVENUE UPTON, NY 11973-		
File Date:	Not reported	Data File:	Major Oil Storage
Latitude:	40 52 03	Longitude:	72 52 17
CBS Number:	1-000263	SPDES Num:	0-005835
Operator Name:	Not reported		
Certif Issue Date:	Not reported	Cert Exp Date:	03/31/1995
Owner Subtype:	Not reported	Total Capacity:	60000
Avg Daily Throughput:	14086	License Status:	Did Not Apply
Product Transfer:	A	License Issued:	04/14/1993
Install date:	08/89		
Tank ID:	20		
Tank Product:	EMPTY		
Tank 1 Location:	ABOVEGROUND ON SADDLES LEGS, STILTS, RACK, OR CRADLE		
Tank 2 Location:	Not reported		
Tank Type:	STEEL/CARBON STEEL		
Tank Status:	TEMPORARILY OUT OF SERVICE		
Tank Int Protection:	NONE		
Piping Type:	STEEL/IRON	Piping Int Prot:	NONE
Piping Location:	Aboveground		
Leak Detection:	GROUNDWATER WELL		
Piping Ext Protection:	PAINTED/ASPHALT COATING		
Tank Ext Protection:	PAINTED/ASPHALT COATING		
Tank Sec Containmt:	EARTHEN DIKE/NATURAL LINER		
Piping Sec Containmt:	Not reported		
Overfill Protection:	04	Disp Method:	Suction
Next Test Date:	Not reported	Close Date:	Not reported
Percent of HW:	Not reported		
Chemical:	Not reported		
District:	Not reported	Section:	Not reported
Block:	Not reported	Lots 1 and 2:	Not reported
Tank Content:	Not reported	Tank Constr:	Not reported
Fill Type:	Not reported	Issue Date:	Not reported
Remove Date:	Not reported	Owner Mark:	Not reported
Certification:	Not reported	Inspect Date:	Not reported
Inspector:	Not reported	Insp Result:	Not reported

MAP FINDINGS

Map ID
 Direction
 Distance
 Elevation

Site

Database(s)

EDR ID Number
 EPA ID Number

BROOKHAVEN NATIONAL LABORATORY (USDOE) (Continued)

1000333087

Fed ID Number: Not reported
 Renew Date: Not reported
 Facility Screen: Not reported
 Lot: Not reported
 Piping Type: Not reported
 Testing Method: Not reported
 Next Test: Not reported
 Application Rcvd: 01/06/1993

Renew Status: Not reported
 Tank Screen: Not reported
 Owner Screen: Not reported
 Constr Mat: Not reported
 Material Type: Not reported
 Action: Not reported
 Updated: Not reported

MAP FINDINGS

Map ID
Direction
Distance
Elevation

Site

Database(s)

EDR ID Number
EPA ID Number

BROOKHAVEN NATIONAL LABORATORY (USDOE) (Continued)

1000333087

Facility ID:	1-1700	Facility Tel:	(516) 282-3711
Facility Contact:	M. SUE DAVIS		
Facility Status:	ACTIVE FACILITY		
Facility Type:	APARTMENT BUILDING		
Total Tanks:	25	SWIS Number:	47
Emergency Contact:	M. SUE DAVIS	Emergency Tel:	(516) 282-3711
Owner:	DEPARTMENT OF ENERGY (DOE) BROOKHAVEN AREA OFFICE UPTON, NY 11973-		
Owner Tel:	(516) 282-3424	Owner Type:	4
Mailing Address:	DEPARTMENT OF ENERGY (DOE) 53 BELL AVENUE BROOKHAVEN AREA OFFICE NY 11973-		
Mailing Tel:	(516) 282-3424	Mail Contact:	CARSON L. NEALY-ACTING AREA MG
Legal Agent:	CARSON L. NEALY 53 BELL AVENUE UPTON, NY 11973-		
File Date:	Not reported	Data File:	Major Oil Storage
Latitude:	40 52 03	Longitude:	72 52 17
CBS Number:	1-000263	SPDES Num:	0-005835
Operator Name:	Not reported		
Certif Issue Date:	Not reported	Cert Exp Date:	03/31/1995
Owner Subtype:	Not reported	Total Capacity:	2000
Avg Daily Throughput:	14086	License Status:	Did Not Apply
Product Transfer:	A	License Issued:	04/14/1993
Install date:	08/89		
Tank ID:	21		
Tank Product:	EMPTY		
Tank 1 Location:	ABOVEGROUND ON SADDLES LEGS, STILTS, RACK, OR CRADLE		
Tank 2 Location:	Not reported		
Tank Type:	STEEL/CARBON STEEL		
Tank Status:	TEMPORARILY OUT OF SERVICE		
Tank Int Protection:	NONE		
Piping Type:	STEEL/IRON	Piping Int Prot:	NONE
Piping Location:	Aboveground		
Leak Detection:	GROUNDWATER WELL		
Piping Ext Protection:	PAINTED/ASPHALT COATING		
Tank Ext Protection:	PAINTED/ASPHALT COATING		
Tank Sec Containmt:	EARTHEN DIKE/NATURAL LINER		
Piping Sec Containmt:	Not reported		
Overfill Protection:	04	Disp Method:	Suction
Next Test Date:	Not reported	Close Date:	Not reported
Percent of HW:	Not reported		
Chemical:	Not reported		
District:	Not reported	Section:	Not reported
Block:	Not reported	Lots 1 and 2:	Not reported
Tank Content:	Not reported	Tank Constr:	Not reported
Fill Type:	Not reported	Issue Date:	Not reported
Remove Date:	Not reported	Owner Mark:	Not reported
Certification:	Not reported	Inspect Date:	Not reported
Inspector:	Not reported	Insp Result:	Not reported

MAP FINDINGS

Map ID
 Direction
 Distance
 Elevation

Site

Database(s)

EDR ID Number
 EPA ID Number

BROOKHAVEN NATIONAL LABORATORY (USDOE) (Continued)

1000333087

Fed ID Number:	Not reported	Renew Status:	Not reported
Renew Date:	Not reported	Tank Screen:	Not reported
Facility Screen:	Not reported	Owner Screen:	Not reported
Lot:	Not reported	Constr Mat:	Not reported
Piping Type:	Not reported	Material Type:	Not reported
Testing Method:	Not reported		
Next Test:	Not reported	Action:	Not reported
Application Rcvd:	01/06/1993	Updated:	Not reported

MAP FINDINGS

Map ID
 Direction
 Distance
 Elevation

EDR ID Number
 EPA ID Number

Site

Database(s)

BROOKHAVEN NATIONAL LABORATORY (USDOE) (Continued)

1000333087

Facility ID:	1-1700	Facility Tel:	(516) 282-3711
Facility Contact:	M. SUE DAVIS		
Facility Status:	ACTIVE FACILITY		
Facility Type:	APARTMENT BUILDING		
Total Tanks:	25	SWIS Number:	47
Emergency Contact:	M. SUE DAVIS	Emergency Tel:	(516) 282-3711
Owner:	DEPARTMENT OF ENERGY (DOE) BROOKHAVEN AREA OFFICE UPTON, NY 11973-		
Owner Tel:	(516) 282-3424	Owner Type:	4
Mailing Address:	DEPARTMENT OF ENERGY (DOE) 53 BELL AVENUE BROOKHAVEN AREA OFFICE NY 11973-		
Mailing Tel:	(516) 282-3424	Mail Contact:	CARSON L. NEALY-ACTING AREA MG
Legal Agent:	CARSON L. NEALY 53 BELL AVENUE UPTON, NY 11973-		
File Date:	Not reported	Data File:	Major Oil Storage
Latitude:	40 52 03	Longitude:	72 52 17
CBS Number:	1-000263	SPDES Num:	0-005835
Operator Name:	Not reported		
Certif Issue Date:	Not reported	Cert Exp Date:	03/31/1995
Owner Subtype:	Not reported	Total Capacity:	2000
Avg Daily Throughput:	14086	License Status:	Did Not Apply
Product Transfer:	A	License Issued:	04/14/1993
Install date:	08/89		
Tank ID:	22		
Tank Product:	EMPTY		
Tank 1 Location:	ABOVEGROUND ON SADDLES LEGS, STILTS, RACK, OR CRADLE		
Tank 2 Location:	Not reported		
Tank Type:	STEEL/CARBON STEEL		
Tank Status:	TEMPORARILY OUT OF SERVICE		
Tank Int Protection:	NONE		
Piping Type:	STEEL/IRON	Piping Int Prot:	NONE
Piping Location:	Aboveground		
Leak Detection:	GROUNDWATER WELL		
Piping Ext Protection:	PAINTED/ASPHALT COATING		
Tank Ext Protection:	PAINTED/ASPHALT COATING		
Tank Sec Containmt:	EARTHEN DIKE/NATURAL LINER		
Piping Sec Containmt:	Not reported		
Overfill Protection:	04	Disp Method:	Suction
Next Test Date:	Not reported	Close Date:	Not reported
Percent of HW:	Not reported		
Chemical:	Not reported		
District:	Not reported	Section:	Not reported
Block:	Not reported	Lots 1 and 2:	Not reported
Tank Content:	Not reported	Tank Constr:	Not reported
Fill Type:	Not reported	Issue Date:	Not reported
Remove Date:	Not reported	Owner Mark:	Not reported
Certification:	Not reported	Inspect Date:	Not reported
Inspector:	Not reported	Insp Result:	Not reported

MAP FINDINGS

Map ID
 Direction
 Distance
 Elevation

Site

Database(s)

EDR ID Number
 EPA ID Number

BROOKHAVEN NATIONAL LABORATORY (USDOE) (Continued)

1000333087

Fed ID Number:	Not reported	Renew Status:	Not reported
Renew Date:	Not reported	Tank Screen:	Not reported
Facility Screen:	Not reported	Owner Screen:	Not reported
Lot:	Not reported	Constr Mat:	Not reported
Piping Type:	Not reported	Material Type:	Not reported
Testing Method:	Not reported		
Next Test:	Not reported	Action:	Not reported
Application Rcvd:	01/06/1993	Updated:	Not reported

MAP FINDINGS

Map ID
 Direction
 Distance
 Elevation

EDR ID Number
 EPA ID Number

Site Database(s)

BROOKHAVEN NATIONAL LABORATORY (USDOE) (Continued)

1000333087

Facility ID:	1-1700	Facility Tel:	(516) 282-3711
Facility Contact:	M. SUE DAVIS		
Facility Status:	ACTIVE FACILITY		
Facility Type:	APARTMENT BUILDING		
Total Tanks:	25	SWIS Number:	47
Emergency Contact:	M. SUE DAVIS	Emergency Tel:	(516) 282-3711
Owner:	DEPARTMENT OF ENERGY (DOE) BROOKHAVEN AREA OFFICE UPTON, NY 11973-		
Owner Tel:	(516) 282-3424	Owner Type:	4
Mailing Address:	DEPARTMENT OF ENERGY (DOE) 53 BELL AVENUE BROOKHAVEN AREA OFFICE NY 11973-		
Mailing Tel:	(516) 282-3424	Mail Contact:	CARSON L. NEALY-ACTING AREA MG
Legal Agent:	CARSON L. NEALY 53 BELL AVENUE UPTON, NY 11973-		
File Date:	Not reported	Data File:	Major Oil Storage
Latitude:	40 52 03	Longitude:	72 52 17
CBS Number:	1-000263	SPDES Num:	0-005835
Operator Name:	Not reported		
Certif Issue Date:	Not reported	Cert Exp Date:	03/31/1995
Owner Subtype:	Not reported	Total Capacity:	225
Avg Daily Throughput:	14086	License Status:	Did Not Apply
Product Transfer:	A	License Issued:	04/14/1993
Install date:	08/89		
Tank ID:	23		
Tank Product:	EMPTY		
Tank 1 Location:	ABOVEGROUND ON SADDLES LEGS, STILTS, RACK, OR CRADLE		
Tank 2 Location:	Not reported		
Tank Type:	STEEL/CARBON STEEL		
Tank Status:	TEMPORARILY OUT OF SERVICE		
Tank Int Protection:	NONE		
Piping Type:	STEEL/IRON	Piping Int Prot:	NONE
Piping Location:	Aboveground		
Leak Detection:	GROUNDWATER WELL		
Piping Ext Protection:	PAINTED/ASPHALT COATING		
Tank Ext Protection:	PAINTED/ASPHALT COATING		
Tank Sec Containmt:	EARTHEN DIKE/NATURAL LINER		
Piping Sec Containmt:	Not reported		
Overfill Protection:	02	Disp Method:	Suction
Next Test Date:	Not reported	Close Date:	Not reported
Percent of HW:	Not reported		
Chemical:	Not reported		
District:	Not reported	Section:	Not reported
Block:	Not reported	Lots 1 and 2:	Not reported
Tank Content:	Not reported	Tank Constr:	Not reported
Fill Type:	Not reported	Issue Date:	Not reported
Remove Date:	Not reported	Owner Mark:	Not reported
Certification:	Not reported	Inspect Date:	Not reported
Inspector:	Not reported	Insp Result:	Not reported

MAP FINDINGS

Map ID
 Direction
 Distance
 Elevation

Site

Database(s)

EDR ID Number
 EPA ID Number

BROOKHAVEN NATIONAL LABORATORY (USDOE) (Continued)

1000333087

Fed ID Number:	Not reported	Renew Status:	Not reported
Renew Date:	Not reported	Tank Screen:	Not reported
Facility Screen:	Not reported	Owner Screen:	Not reported
Lot:	Not reported	Constr Mat:	Not reported
Piping Type:	Not reported	Material Type:	Not reported
Testing Method:	Not reported		
Next Test:	Not reported	Action:	Not reported
Application Rcvd:	01/06/1993	Updated:	Not reported

MAP FINDINGS

Map ID
Direction
Distance
Elevation

Site Database(s) EDR ID Number
EPA ID Number

BROOKHAVEN NATIONAL LABORATORY (USDOE) (Continued)

1000333087

Facility ID:	1-1700	Facility Tel:	(516) 282-3711
Facility Contact:	M. SUE DAVIS		
Facility Status:	ACTIVE FACILITY		
Facility Type:	APARTMENT BUILDING		
Total Tanks:	25	SWIS Number:	47
Emergency Contact:	M. SUE DAVIS	Emergency Tel:	(516) 282-3711
Owner:	DEPARTMENT OF ENERGY (DOE) BROOKHAVEN AREA OFFICE UPTON, NY 11973-		
Owner Tel:	(516) 282-3424	Owner Type:	4
Mailing Address:	DEPARTMENT OF ENERGY (DOE) 53 BELL AVENUE BROOKHAVEN AREA OFFICE NY 11973-		
Mailing Tel:	(516) 282-3424	Mail Contact:	CARSON L. NEALY-ACTING AREA MG
Legal Agent:	CARSON L. NEALY 53 BELL AVENUE UPTON, NY 11973-		
File Date:	Not reported	Data File:	Major Oil Storage
Latitude:	40 52 03	Longitude:	72 52 17
CBS Number:	1-000263	SPDES Num:	0-005835
Operator Name:	Not reported		
Certif Issue Date:	Not reported	Cert Exp Date:	03/31/1995
Owner Subtype:	Not reported	Total Capacity:	5000
Avg Daily Throughput:	14086	License Status:	Did Not Apply
Product Transfer:	A	License Issued:	04/14/1993
Install date:	01/82		
Tank ID:	29		
Tank Product:	EMPTY		
Tank 1 Location:	ABOVEGROUND ON SADDLES LEGS, STILTS, RACK, OR CRADLE		
Tank 2 Location:	Not reported		
Tank Type:	STEEL/CARBON STEEL		
Tank Status:	CLOSED-REMOVED		
Tank Int Protection:	Not reported		
Piping Type:	STEEL/IRON	Piping Int Prot:	Not reported
Piping Location:	Not reported		
Leak Detection:	NONE/NONE		
Piping Ext Protection:	Not reported		
Tank Ext Protection:	Not reported		
Tank Sec Containmt:	NONE		
Piping Sec Containmt:	Not reported		
Overfill Protection:	00	Disp Method:	Suction
Next Test Date:	Not reported	Close Date:	UNKWN
Percent of HW:	Not reported		
Chemical:	Not reported		
District:	Not reported	Section:	Not reported
Block:	Not reported	Lots 1 and 2:	Not reported
Tank Content:	Not reported	Tank Constr:	Not reported
Fill Type:	Not reported	Issue Date:	Not reported
Remove Date:	Not reported	Owner Mark:	Not reported
Certification:	Not reported	Inspect Date:	Not reported
Inspector:	Not reported	Insp Result:	Not reported

MAP FINDINGS

Map ID
 Direction
 Distance
 Elevation

Site

Database(s)

EDR ID Number
 EPA ID Number

BROOKHAVEN NATIONAL LABORATORY (USDOE) (Continued)

1000333087

Fed ID Number:	Not reported	Renew Status:	Not reported
Renew Date:	Not reported	Tank Screen:	Not reported
Facility Screen:	Not reported	Owner Screen:	Not reported
Lot:	Not reported	Constr Mat:	Not reported
Piping Type:	Not reported	Material Type:	Not reported
Testing Method:	Not reported		
Next Test:	Not reported	Action:	Not reported
Application Rcvd:	01/06/1993	Updated:	Not reported

MAP FINDINGS

Map ID
 Direction
 Distance
 Elevation

Site

Database(s)

EDR ID Number
 EPA ID Number

BROOKHAVEN NATIONAL LABORATORY (USDOE) (Continued)

1000333087

Facility ID:	1-1700	Facility Tel:	(516) 282-3711
Facility Contact:	M. SUE DAVIS		
Facility Status:	ACTIVE FACILITY		
Facility Type:	APARTMENT BUILDING		
Total Tanks:	25	SWIS Number:	47
Emergency Contact:	M. SUE DAVIS	Emergency Tel:	(516) 282-3711
Owner:	DEPARTMENT OF ENERGY (DOE) BROOKHAVEN AREA OFFICE UPTON, NY 11973-		
Owner Tel:	(516) 282-3424	Owner Type:	4
Mailing Address:	DEPARTMENT OF ENERGY (DOE) 53 BELL AVENUE BROOKHAVEN AREA OFFICE NY 11973-		
Mailing Tel:	(516) 282-3424	Mail Contact:	CARSON L. NEALY-ACTING AREA MG
Legal Agent:	CARSON L. NEALY 53 BELL AVENUE UPTON, NY 11973-		
File Date:	Not reported	Data File:	Major Oil Storage
Latitude:	40 52 03	Longitude:	72 52 17
CBS Number:	1-000263	SPDES Num:	0-005835
Operator Name:	Not reported		
Certif Issue Date:	Not reported	Cert Exp Date:	03/31/1995
Owner Subtype:	Not reported	Total Capacity:	5000
Avg Daily Throughput:	14086	License Status:	Did Not Apply
Product Transfer:	A	License Issued:	04/14/1993
Install date:	01/81		
Tank ID:	30		
Tank Product:	EMPTY		
Tank 1 Location:	ABOVEGROUND ON SADDLES LEGS, STILTS, RACK, OR CRADLE		
Tank 2 Location:	Not reported		
Tank Type:	STEEL/CARBON STEEL		
Tank Status:	CLOSED-REMOVED		
Tank Int Protection:	Not reported		
Piping Type:	STEEL/IRON	Piping Int Prot:	Not reported
Piping Location:	Not reported		
Leak Detection:	NONE/NONE		
Piping Ext Protection:	Not reported		
Tank Ext Protection:	Not reported		
Tank Sec Containmt:	NONE		
Piping Sec Containmt:	Not reported		
Overfill Protection:	00	Disp Method:	Suction
Next Test Date:	Not reported	Close Date:	UNKWN
Percent of HW:	Not reported		
Chemical:	Not reported		
District:	Not reported	Section:	Not reported
Block:	Not reported	Lots 1 and 2:	Not reported
Tank Content:	Not reported	Tank Constr:	Not reported
Fill Type:	Not reported	Issue Date:	Not reported
Remove Date:	Not reported	Owner Mark:	Not reported
Certification:	Not reported	Inspect Date:	Not reported
Inspector:	Not reported	Insp Result:	Not reported

MAP FINDINGS

Map ID
 Direction
 Distance
 Elevation

Site

Database(s)

EDR ID Number
 EPA ID Number

BROOKHAVEN NATIONAL LABORATORY (USDOE) (Continued)

1000333087

Fed ID Number:	Not reported	Renew Status:	Not reported
Renew Date:	Not reported	Tank Screen:	Not reported
Facility Screen:	Not reported	Owner Screen:	Not reported
Lot:	Not reported	Constr Mat:	Not reported
Piping Type:	Not reported	Material Type:	Not reported
Testing Method:	Not reported		
Next Test:	Not reported	Action:	Not reported
Application Rcvd:	01/06/1993	Updated:	Not reported

MAP FINDINGS

Map ID
 Direction
 Distance
 Elevation

EDR ID Number
 EPA ID Number

Site Database(s)

BROOKHAVEN NATIONAL LABORATORY (USDOE) (Continued)

1000333087

Facility ID:	1-1700	Facility Tel:	(516) 282-3711
Facility Contact:	M. SUE DAVIS		
Facility Status:	ACTIVE FACILITY		
Facility Type:	APARTMENT BUILDING		
Total Tanks:	25	SWIS Number:	47
Emergency Contact:	M. SUE DAVIS	Emergency Tel:	(516) 282-3711
Owner:	DEPARTMENT OF ENERGY (DOE) BROOKHAVEN AREA OFFICE UPTON, NY 11973-		
Owner Tel:	(516) 282-3424	Owner Type:	4
Mailing Address:	DEPARTMENT OF ENERGY (DOE) 53 BELL AVENUE BROOKHAVEN AREA OFFICE NY 11973-		
Mailing Tel:	(516) 282-3424	Mail Contact:	CARSON L. NEALY-ACTING AREA MG
Legal Agent:	CARSON L. NEALY 53 BELL AVENUE UPTON, NY 11973-		
File Date:	Not reported	Data File:	Major Oil Storage
Latitude:	40 52 03	Longitude:	72 52 17
CBS Number:	1-000263	SPDES Num:	0-005835
Operator Name:	Not reported		
Certif Issue Date:	Not reported	Cert Exp Date:	03/31/1995
Owner Subtype:	Not reported	Total Capacity:	3880
Avg Daily Throughput:	14086	License Status:	Did Not Apply
Product Transfer:	A	License Issued:	04/14/1993
Install date:	01/81		
Tank ID:	31		
Tank Product:	OTHER		
Tank 1 Location:	ABOVEGROUND ON SADDLES LEGS, STILTS, RACK, OR CRADLE		
Tank 2 Location:	Not reported		
Tank Type:	STAINLESS STEEL ALLOY		
Tank Status:	CLOSED-REMOVED		
Tank Int Protection:	NONE		
Piping Type:	STEEL/IRON	Piping Int Prot:	NONE
Piping Location:	Aboveground		
Leak Detection:	GROUNDWATER WELL		
Piping Ext Protection:	PAINTED/ASPHALT COATING		
Tank Ext Protection:	PAINTED/ASPHALT COATING		
Tank Sec Containmt:	CONCRETE DIKE		
Piping Sec Containmt:	Not reported		
Overfill Protection:	00	Disp Method:	Suction
Next Test Date:	Not reported	Close Date:	09/91
Percent of HW:	Not reported		
Chemical:	Not reported		
District:	Not reported	Section:	Not reported
Block:	Not reported	Lots 1 and 2:	Not reported
Tank Content:	Not reported	Tank Constr:	Not reported
Fill Type:	Not reported	Issue Date:	Not reported
Remove Date:	Not reported	Owner Mark:	Not reported
Certification:	Not reported	Inspect Date:	Not reported
Inspector:	Not reported	Insp Result:	Not reported

MAP FINDINGS

Map ID
 Direction
 Distance
 Elevation

Site

Database(s)

EDR ID Number
 EPA ID Number

BROOKHAVEN NATIONAL LABORATORY (USDOE) (Continued)

1000333087

Fed ID Number:	Not reported	Renew Status:	Not reported
Renew Date:	Not reported	Tank Screen:	Not reported
Facility Screen:	Not reported	Owner Screen:	Not reported
Lot:	Not reported	Constr Mat:	Not reported
Piping Type:	Not reported	Material Type:	Not reported
Testing Method:	Not reported		
Next Test:	Not reported	Action:	Not reported
Application Rcvd:	01/06/1993	Updated:	Not reported

There are 32 other tank details available for this site.

1 South 1/8-1/4 Higher	MODULAR DEVICES 1 RONE D ROAD SHIRLEY, NY 11967	RCRIS-SQG FINDS	1000425385 NYD982737710
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RCRIS:

Owner: MODULAR DEVICES INC
 (212) 555-1212

Contact: GARY PRALGO
 (516) 345-3100

Waste	Quantity	Info Source	Waste	Quantity	Info Source
D000	Not reported	Notification	F001	Not reported	Notification
X001	Not reported	Notification			

EUR IU	Site Name	Site Address	Zip	Database(s)	Facility ID
MANORVILLE	S101008315	MANORVILLE LANDFILL (BROOKHAVEN TOWN)			
RIDGE	U001738240	D & D AUTO SERVICE	11949	SHWS	
RIDGE	U001856519	FIREMANS MEMORIAL PARK	11961	UST, AST	2-1006
RIDGE	U001856286	SUNOCO S/S	11961	UST, AST	
RIDGE	U001856270	GAS STATION	11961	UST, AST	2-0129
RIDGE	S100149594	GETTY RIDGE	11961	UST, AST	2-0070
RIDGE	S100664591	AMOCO OIL	11961	LUST	8401851
RIDGE	S100666592	AMOCO OIL CO	11961	LUST	9202614
RIDGE	S100781240	MOBIL	11961	LUST	9012686
RIDGE	U001738637	F.R.E.E.	11961	LUST	9309369
RIDGE	U001738365	PINE BARK COMMONS	11961	UST	2-1322
RIDGE	U001738068	MOBIL S/S #17-D51	11961	UST	2-1347
RIDGE	U001858833	AMOCO S/S	11961	UST	2-0363
RIDGE	U001858794	RIDGEHAVEN VILLAGE	11961	UST	2-0389
RIDGE	U001737971	GAS STATION	11961	UST	2-1597
RIDGE	U000408271	RIDGE FIRE DEPARTMENT	11961	UST	2-0158
RIDGE	1000333093	BROOKHAVEN TOWN RIDGE STOP/SITE	11961	UST	2-0172
RIDGE	1000423015	GETTY	11961	UST	
RIDGE	1000457377	MOBIL STATION - EHLER	11961	FINDS, RCRIS-LQG	
RIDGE	1000556068	OCEAN SERVICE STATION	11961	FINDS, RCRIS-LQG	
RIDGE	1000790608	NYS DOT BIN 1018281	11961	RCRIS-SQG, FINDS	
RIDGE	1000790609	NYS DOT BIN 1018282	11961	RCRIS-SQG, FINDS	
RIDGE	1000871414	SERVICE STATION - CLOSED	11961	FINDS, RCRIS-LQG	
RIDGE	1000694095	GETTY SERVICE STATION #354	11961	FINDS, RCRIS-LQG	
RIDGE	1000552773	MOBIL OIL CORP SS #401	11961	RCRIS-SQG, FINDS	
RIDGE	1000328722	SUNOCO SERVICE STATION	11961	RCRIS-SQG, FINDS	
RIDGE	S100150608	C&K PETROLEUM TRANSPORTER	11961	FINDS, RCRIS-LQG	
RIDGE	U001741863	UNITED STATES POST OFFICE	11961	LUST	9001006
SHIRLEY	U001856658	MIMIS ITALIAN ICE	11961	UST	2-1438
SHIRLEY	U001738662	MOBIL S/S #17-L4D	11967	UST	2-0259
SHIRLEY	U001856254	DI CARLO DISTRIBUTORS INC	11967	UST, AST	2-0110
SHIRLEY	U001856304	JENSEN'S SERVICE STATION	11967	UST, AST	2-0016
SHIRLEY	U000413559	SHIRLEY FEED & COAL SUPPL	11967	UST, AST	2-0204
SHIRLEY	U001856433	USA S/S	11967	UST	2-0448
SHIRLEY	U001737953	SO BROOKHAVEN HEALTH CENTER BL	11967	UST	2-0670
SHIRLEY	1000361072	MERRICK RD	11967	UST	2-0128
SHIRLEY	1000553449	MOBIL OIL CORP SS #L4D	11967	CERCLIS, FINDS	
SHIRLEY	S100151003	BROOKHAVEN FIRE DEPT	11967	RCRIS-SQG, FINDS	9004834
SHIRLEY	1000790631	NYS DOT BIN 1019339	11967	LUST	
YAPHANK	S101008330	YAPHANK RAILROAD	11980	FINDS, RCRIS-LQG	
		COLIN DRIVE		SHWS	

**GEOCHECK VERSION 2.1 ADDENDUM
FEDERAL DATABASE WELL INFORMATION**

Well Closest to Target Property (North Quadrant)

BASIC WELL DATA

Site ID:	405149072532201	Distance from TP:	1 - 2 Miles
Site Type:	Single well, other than collector or Ranney type		
Year Constructed:	1940	County:	Suffolk
Altitude:	115.00 ft.	State:	New York
Well Depth:	91.00 ft.	Topographic Setting:	Undulating
Depth to Water Table:	72.00 ft.	Prim. Use of Site:	Observation
Date Measured:	04011948	Prim. Use of Water:	Unused

LITHOLOGIC DATA

Geologic Age ID (Era/System/Series):	Cenozoic-Quaternary-Pleistocene
Principal Lithology of Unit:	Sand
Further Description:	Not Reported

WATER LEVEL VARIABILITY

Not Reported

GEOCHECK VERSION 2.1
STATE DATABASE WELL INFORMATION

Water Well Information:

Well Closest to Target Property (Northern Quadrant)

Public Water Supply #:	5110526	Source ID:	208
PW Supply Name:	SUFFOLK COUNTY WATER AUTHORITY		
Source Name:	PLEASANT AVE. WF S-39347,42760		
Source Description:	Groundwater		
Availability/Utilization:	Permanent Utilization	Source Type:	Source Record
Latitude:	405104	Longitude:	-730511
Source Prod Capacity:	0	Fed ID of Seller:	Not Reported
Watershed Basin:	17	Watershed Sub-basin:	01
Treatment Plant ID:	357	Date of rec Last Update:	Not Reported
Water Type:	Not Reported	Record Tag:	Existing Record

Well Closest to Target Property (Eastern Quadrant)

Public Water Supply #:	5110526	Source ID:	187
PW Supply Name:	SUFFOLK COUNTY WATER AUTHORITY		
Source Name:	LOCUST AVE. WELL S-34522		
Source Description:	Groundwater		
Availability/Utilization:	Permanent Utilization	Source Type:	Source Record
Latitude:	404632	Longitude:	-730706
Source Prod Capacity:	0	Fed ID of Seller:	Not Reported
Watershed Basin:	17	Watershed Sub-basin:	01
Treatment Plant ID:	357	Date of rec Last Update:	Not Reported
Water Type:	Not Reported	Record Tag:	Existing Record

Well Closest to Target Property (Southern Quadrant)

Public Water Supply #:	5110526	Source ID:	196
PW Supply Name:	SUFFOLK COUNTY WATER AUTHORITY		
Source Name:	MORRIS AVE. WF S-28819,29492		
Source Description:	Groundwater		
Availability/Utilization:	Permanent Utilization	Source Type:	Source Record
Latitude:	404903	Longitude:	-730331
Source Prod Capacity:	0	Fed ID of Seller:	Not Reported
Watershed Basin:	17	Watershed Sub-basin:	01
Treatment Plant ID:	357	Date of rec Last Update:	Not Reported
Water Type:	Not Reported	Record Tag:	Existing Record

GEOCHECK VERSION 2.1
PUBLIC WATER SUPPLY SYSTEM INFORMATION

Searched by Nearest Well.

PWS SUMMARY:

PWS ID:	NY0011891	PWS Status:	Active	Distance from TP:	1 - 2 Miles
Dir relative to TP:	North	Date Initiated:	Not Reported	Date Deactivated:	Not Reported
PWS Name:	BROOKHAVEN NATIONAL LABS CAMP UPTON UPTON, NY 11973				

Addressee / Facility Type:	System Owner/Responsible Party
Facility Name:	CHALOUPKA WILLIAM L PLANT ENGINEERING DIV BUILDING 452 UPTON, NY 11973

Facility Latitude:	40 52 12	Facility Longitude:	072 52 12
City Served:	BROOKHAVEN (T)	Population Served:	Not Reported:
Treatment Class	Not Reported		

Well currently has or has had major violation(s): No

APPENDIX D - LABORATORY RESULTS

Client: GCI, Inc.	Client ID: Shirley (SB-1 (GW))
Date received: 5/17/96	Laboratory ID: 9611305
Date extracted: 5/21/96	Matrix: Liquid
Date analyzed: 5/21/96	Contractor: 11418

EPA METHOD 624

Parameter	CAS No.	Results ug/L
BENZENE	71-43-2	<5
BROMODICHLOROMETHANE	75-27-4	<5
BROMOFORM	75-25-2	<5
BROMOMETHANE	74-83-9	<5
CARBON TETRACHLORIDE	56-23-5	<5
CHLOROBENZENE	108-90-7	<5
CHLOROETHANE	75-00-3	<5
2-CHLOROETHYL VINYL ETHER	110-75-8	<5
CHLOROFORM	67-66-3	<5
CHLOROMETHANE	74-87-3	<5
DIBROMOCHLOROMETHANE	124-48-1	<5
1,2-DICHLOROBENZENE	95-50-1	<5
1,3-DICHLOROBENZENE	541-73-1	<5
1,4-DICHLOROBENZENE	106-46-7	<5
1,1-DICHLOROETHANE	75-34-3	<5
1,2-DICHLOROETHANE	107-06-2	<5
1,1-DICHLOROETHENE	75-35-4	<5
trans-1,2-DICHLOROETHENE	156-60-5	<5
1,2-DICHLOROPROPANE	78-87-5	<5
cis-1,3-DICHLOROPROPENE	10061-01-5	<5
trans-1,3-DICHLOROPROPENE	10061-02-6	<5
ETHYL BENZENE	100-41-4	<5
METHYLENE CHLORIDE	75-09-2	<5
1,1,2,2,-TETRACHLOROETHANE	79-34-5	<5
TETRACHLOROETHENE	127-18-4	<5
TOLUENE	108-88-3	<5
1,1,1-TRICHLOROETHANE	71-55-6	<5
1,1,2-TRICHLOROETHANE	79-00-5	<5
TRICHLOROETHENE	79-01-6	<5
TRICHLOROFLUOROMETHANE	75-69-4	<5
VINYL CHLORIDE	75-01-4	<5
XYLENE (Total)	1330-20-7	<15

Michael Verardo

Laboratory Director

Client: GCI, Inc.	Client ID: Shirley (SB-4 (GW))
Date received: 5/17/96	Laboratory ID: 9611306
Date extracted: 5/21/96	Matrix: Liquid
Date analyzed: 5/21/96	Contractor: 11418

EPA METHOD 624

Parameter	CAS No.	Results ug/L
BENZENE	71-43-2	<5
BROMODICHLOROMETHANE	75-27-4	<5
BROMOFORM	75-25-2	<5
BROMOMETHANE	74-83-9	<5
CARBON TETRACHLORIDE	56-23-5	<5
CHLOROBENZENE	108-90-7	<5
CHLOROETHANE	75-00-3	<5
2-CHLOROETHYL VINYL ETHER	110-75-8	<5
CHLOROFORM	67-66-3	<5
CHLOROMETHANE	74-87-3	<5
DIBROMOCHLOROMETHANE	124-48-1	<5
1,2-DICHLOROBENZENE	95-50-1	<5
1,3-DICHLOROBENZENE	541-73-1	<5
1,4-DICHLOROBENZENE	106-46-7	<5
1,1-DICHLOROETHANE	75-34-3	<5
1,2-DICHLOROETHANE	107-06-2	<5
1,1-DICHLOROETHENE	75-35-4	<5
trans-1,2-DICHLOROETHENE	156-60-5	<5
1,2-DICHLOROPROPANE	78-87-5	<5
cis-1,3-DICHLOROPROPENE	10061-01-5	<5
trans-1,3-DICHLOROPROPENE	10061-02-6	<5
ETHYL BENZENE	100-41-4	<5
METHYLENE CHLORIDE	75-09-2	<5
1,1,2,2-TETRACHLOROETHANE	79-34-5	<5
TETRACHLOROETHENE	127-18-4	<5
TOLUENE	108-88-3	<5
1,1,1-TRICHLOROETHANE	71-55-6	<5
1,1,2-TRICHLOROETHANE	79-00-5	<5
TRICHLOROETHENE	79-01-6	<5
TRICHLOROFLUOROMETHANE	75-69-4	<5
VINYL CHLORIDE	75-01-4	<5
XYLENE (Total)	1330-20-7	<15

Michael Verardo
Laboratory Director

Client: GCI, Inc.	Client ID: Shirely (SB-1 (GW))
Date received: 5/17/96	Laboratory ID: 9611305
Date extracted: 5/20/96	Matrix: Liquid
Date analyzed: 5/20/96	Contractor: 11418

METALS ANALYSIS 8 RCRA

PARAMETER	MDL	RESULTS mg/L
SILVER, Ag	0.05 mg/L	<0.05
BARIUM, Ba	1.00 mg/L	1.03
CADMIUM, Cd	0.05 mg/L	<0.05
SELENIUM, Se	0.05 mg/L	<0.05
LEAD, Pb	0.05 mg/L	0.30
MERCURY, Hg	0.02 mg/L	<0.020
ARSENIC, As	0.05 mg/L	<0.05
CHROMIUM, Cr	0.05 mg/L	3.67

Michael Verardo

Laboratory Director

Client: GCI, Inc.	Client ID: Shirley (SB-2 GW)
Date received: 5/23/96	Laboratory ID: 9611357
Date extracted: 5/24/96	Matrix: Liquid
Date analyzed: 5/24/96	Contractor: 11418

METALS ANALYSIS 8 RCRA

PARAMETER	MDL	RESULTS mg/L
SILVER, Ag	0.05 mg/L	<0.05
BARIUM, Ba	1.00 mg/L	2.65
CADMIUM, Cd	0.05 mg/L	<0.05
SELENIUM, Se	0.05 mg/L	<0.05
LEAD, Pb	0.05 mg/L	0.82
MERCURY, Hg	0.02 mg/L	<0.020
ARSENIC, As	0.05 mg/L	<0.05
CHROMIUM, Cr	0.05 mg/L	13.0

Michael Venard

Laboratory Director

Client: GCI, Inc.	Client ID: Shirely (SB-4 (GW))
Date received: 5/17/96	Laboratory ID: 9611306
Date extracted: 5/20/96	Matrix: Liquid
Date analyzed: 5/20/96	Contractor: 11418

METALS ANALYSIS 8 RCRA

PARAMETER	MDL	RESULTS mg/L
SILVER, Ag	0.05 mg/L	<0.05
BARIUM, Ba	1.00 mg/L	<1.00
CADMIUM, Cd	0.05 mg/L	<0.05
SELENIUM, Se	0.05 mg/L	<0.05
LEAD, Pb	0.05 mg/L	0.27
MERCURY, Hg	0.02 mg/L	<0.020
ARSENIC, As	0.05 mg/L	<0.05
CHROMIUM, Cr	0.05 mg/L	10.2

Michael Veroldi

Laboratory Director

Client: GCI, Inc.	Client ID: Shirley (DW-1)
Date received: 5/17/96	Laboratory ID: 9611307
Date extracted: 5/21/96	Matrix: Sludge
Date analyzed: 5/21/96	Contractor: 11418

S.C.D.H. VOLATILES

PARAMETER	CAS No.	RESULTS ug/kg
DICHLORODIFLUOROMETHANE	75-71-8	<5
CHLOROMETHANE	74-87-3	<5
VINYL CHLORIDE	75-01-4	<5
BROMOMETHANE	74-83-9	<5
CHLOROETHANE	75-00-3	<5
TRICHLOROFLUOROMETHANE	75-69-4	<5
1,1-DICHLOROETHENE	75-35-4	<5
METHYLENE CHLORIDE	75-09-2	<5
trans-1,2-DICHLOROETHENE	156-60-5	<5
1,1-DICHLOROETHANE	75-34-3	<5
2,2-DICHLOROPROPANE	594-20-7	<5
cis-1,2-DICHLOROETHENE	156-59-2	<5
BROMOCHLOROMETHANE	74-97-5	<5
CHLOROFORM	67-66-3	<5
1,1,1-TRICHLOROETHANE	71-55-6	<5
CARBON TETRACHLORIDE	56-23-5	<5
1,1-DICHLOROPROPENE	563-58-6	<5
BENZENE	71-43-2	<5
1,2-DICHLOROETHANE	107-06-2	<5
TRICHLOROETHENE	79-01-6	<5
1,2-DICHLOROPROPANE	78-87-5	<5
DIBROMOMETHANE	74-95-3	<5
BROMODICHLOROMETHANE	75-27-4	<5
cis-1,3-DICHLOROPROPENE	10061-01-5	<5
TOLUENE	108-88-3	<5
trans-1,3-DICHLOROPROPENE	10061-02-6	<5
1,1,2-TRICHLOROETHANE	79-00-5	<5
TETRACHLOROETHYLENE	127-18-4	<5
1,3-DICHLOROPROPANE	142-28-9	<5
DIBROMOCHLOROMETHANE	124-48-1	<5
1,2-DIBROMOETHANE	106-93-4	<5
CHLOROBENZENE	108-90-7	<5
1,1,1,2-TETRACHLOROETHANE	630-20-6	<5
ETHYLBENZENE	100-41-4	<5
STYRENE	100-42-5	<5
BROMOFORM	75-25-2	<5

Client: GCI, Inc.	Client ID: Shirley (DW-1)
Date received: 5/17/96	Laboratory ID: 9611307
Date extracted: 5/21/96	Matrix: Sludge
Date analyzed: 5/21/96	Contractor: 11418

S.C.D.H. VOLATILES

PARAMETER	CAS No.	RESULTS ug/kg
ISOPROPYLBENZENE	98-82-8	<5
BROMOBENZENE	108-86-1	<5
1,1,2,2-TETRACHLOROETHANE	79-34-5	<5
1,2,3-TRICHLOROPROPANE	96-18-4	<5
n-PROPYLBENZENE	103-65-1	<5
2-CHLOROTOLUENE	95-49-8	<5
4-CHLOROTOLUENE	106-43-4	<5
1,3,5-TRIMETHYLBENZENE	108-67-8	<5
tert-BUTYLBENZENE	98-06-6	<5
1,2,4-TRIMETHYLBENZENE	95-63-6	<5
sec-BUTYLBENZENE	135-98-8	<5
1,3-DICHLOROBENZENE	541-73-1	<5
P-ISOPROPYLTOLUENE	99-87-6	<5
1,4-DICHLOROBENZENE	106-46-7	<5
1,2-DICHLOROBENZENE	95-50-1	<5
n-BUTYLBENZENE	104-51-8	<5
1,2-DIBROMO-3-CHLOROPROPANE	96-12-8	<5
1,2,4-TRICHLOROBENZENE	120-82-1	<5
HEXACHLOROBUTADIENE	87-68-3	<5
NAPHTHALENE	91-20-3	<5
1,2,3-TRICHLOROBENZENE	87-61-6	<5
2-CHLOROETHYL VINYL ETHER	110-75-8	<5
FREON 113	76-13-1	<5
p-DIETHYLBENZENE	105-05-5	<5
p-ETHYLTOLUENE	622-96-8	<5
1,2,4,5-TETRAMETHYLBENZENE	95-93-2	<5
ACETONE	67-64-1	<5
CHLORODIFLUOROMETHANE	75-45-6	<5
METHYL ETHYL KETONE	78-93-3	<5
METHYL ISOBUTYL KETONE	108-10-1	<5
XYLENES, Total	1330-20-7	<15

Michael Verardo
Laboratory Director

Client: GCI, Inc.	Client ID: Shirley (DW-1)
Date received: 5/17/96	Laboratory ID: 9611307
Date extracted: 5/20/96	Matrix: Sludge
Date analyzed: 5/20/96	Contractor: 11418

METALS ANALYSIS

PARAMETER	MDL	RESULTS mg/kg
SILVER, Ag	1.65 mg/kg	<1.65
BARIUM, Ba	3.33 mg/kg	6.39
CADMIUM, Cd	1.65 mg/kg	1.81
COPPER, Cu	1.65 mg/kg	1,529
NICKEL, Ni	1.65 mg/kg	8.70
SELENIUM, Se	1.65 mg/kg	<1.65
IRON, Fe	1.65 mg/kg	4,378
MANGANESE, Mn	1.65 mg/kg	39.1
LEAD, Pb	1.65 mg/kg	14.5
MERCURY, Hg	0.020 mg/kg	<0.020
ARSENIC, As	6.60 mg/kg	<6.60
CHROMIUM, Cr	1.65 mg/kg	16.4
ZINC, Zn	1.65 mg/kg	36.7

Michael Venaldi

Laboratory Director

Client: GCI, Inc.	Client ID: Shirley (DW-2)
Date received: 5/17/96	Laboratory ID: 9611308
Date extracted: 5/21/96	Matrix: Sludge
Date analyzed: 5/21/96	Contractor: 11418

S.C.D.H. VOLATILES

PARAMETER	CAS No.	RESULTS ug/kg
DICHLORODIFLUOROMETHANE	75-71-8	<5
CHLOROMETHANE	74-87-3	<5
VINYL CHLORIDE	75-01-4	<5
BROMOMETHANE	74-83-9	<5
CHLOROETHANE	75-00-3	<5
TRICHLOROFLUOROMETHANE	75-69-4	<5
1,1-DICHLOROETHENE	75-35-4	<5
METHYLENE CHLORIDE	75-09-2	<5
trans-1,2-DICHLOROETHENE	156-60-5	<5
1,1-DICHLOROETHANE	75-34-3	<5
2,2-DICHLOROPROPANE	594-20-7	<5
cis-1,2-DICHLOROETHENE	156-59-2	<5
BROMOCHLOROMETHANE	74-97-5	<5
CHLOROFORM	67-66-3	<5
1,1,1-TRICHLOROETHANE	71-55-6	<5
CARBON TETRACHLORIDE	56-23-5	<5
1,1-DICHLOROPROPENE	563-58-6	<5
BENZENE	71-43-2	<5
1,2-DICHLOROETHANE	107-06-2	<5
TRICHLOROETHENE	79-01-6	<5
1,2-DICHLOROPROPANE	78-87-5	<5
DIBROMOMETHANE	74-95-3	<5
BROMODICHLOROMETHANE	75-27-4	<5
cis-1,3-DICHLOROPROPENE	10061-01-5	<5
TOLUENE	108-88-3	<5
trans-1,3-DICHLOROPROPENE	10061-02-6	<5
1,1,2-TRICHLOROETHANE	79-00-5	<5
TETRACHLOROETHYLENE	127-18-4	<5
1,3-DICHLOROPROPANE	142-28-9	<5
DIBROMOCHLOROMETHANE	124-48-1	<5
1,2-DIBROMOETHANE	106-93-4	<5
CHLOROBENZENE	108-90-7	<5
1,1,1,2-TETRACHLOROETHANE	630-20-6	<5
ETHYLBENZENE	100-41-4	<5
STYRENE	100-42-5	<5
BROMOFORM	75-25-2	<5

Client: GCI, Inc.	Client ID: Shirley (DW-2)
Date received: 5/17/96	Laboratory ID: 9611308
Date extracted: 5/21/96	Matrix: Sludge
Date analyzed: 5/21/96	Contractor: 11418

S.C.D.H. VOLATILES

PARAMETER	CAS No.	RESULTS ug/kg
ISOPROPYLBENZENE	98-82-8	<5
BROMOBENZENE	108-86-1	<5
1,1,2,2-TETRACHLOROETHANE	79-34-5	<5
1,2,3-TRICHLOROPROPANE	96-18-4	<5
n-PROPYLBENZENE	103-65-1	<5
2-CHLOROTOLUENE	95-49-8	<5
4-CHLOROTOLUENE	106-43-4	<5
1,3,5-TRIMETHYLBENZENE	108-67-8	<5
tert-BUTYLBENZENE	98-06-6	<5
1,2,4-TRIMETHYLBENZENE	95-63-6	<5
sec-BUTYLBENZENE	135-98-8	<5
1,3-DICHLOROBENZENE	541-73-1	<5
P-ISOPROPYLTOLUENE	99-87-6	<5
1,4-DICHLOROBENZENE	106-46-7	<5
1,2-DICHLOROBENZENE	95-50-1	<5
n-BUTYLBENZENE	104-51-8	<5
1,2-DIBROMO-3-CHLOROPROPANE	96-12-8	<5
1,2,4-TRICHLOROBENZENE	120-82-1	<5
HEXACHLOROBUTADIENE	87-68-3	<5
NAPHTHALENE	91-20-3	<5
1,2,3-TRICHLOROBENZENE	87-61-6	<5
2-CHLOROETHYLVINYL ETHER	110-75-8	<5
FREON 113	76-13-1	<5
p-DIETHYLBENZENE	105-05-5	<5
p-ETHYLTOLUENE	622-96-8	<5
1,2,4,5-TETRAMETHYLBENZENE	95-93-2	<5
ACETONE	67-64-1	<5
CHLORODIFLUOROMETHANE	75-45-6	<5
METHYL ETHYL KETONE	78-93-3	<5
METHYL ISOBUTYL KETONE	108-10-1	<5
XYLENES, Total	1330-20-7	<15

Michael Venard

Laboratory Director

Client: GCI, Inc.	Client ID: Shirley (DW-2)
Date received: 5/17/96	Laboratory ID: 9611308
Date extracted: 5/20/96	Matrix: Sludge
Date analyzed: 5/20/96	Contractor: 11418

METALS ANALYSIS

PARAMETER	MDL	RESULTS mg/kg
SILVER, Ag	1.65 mg/kg	<1.65
BARIUM, Ba	3.33 mg/kg	8.87
CADMIUM, Cd	1.65 mg/kg	<1.65
COPPER, Cu	1.65 mg/kg	<1.65
NICKEL, Ni	1.65 mg/kg	3.31
SELENIUM, Se	1.65 mg/kg	<1.65
IRON, Fe	1.65 mg/kg	4,373
MANGANESE, Mn	1.65 mg/kg	81.0
LEAD, Pb	1.65 mg/kg	4.87
MERCURY, Hg	0.020 mg/kg	<0.020
ARSENIC, As	6.60 mg/kg	<6.60
CHROMIUM, Cr	1.65 mg/kg	3.41
ZINC, Zn	1.65 mg/kg	11.5

Michael Verardo

Laboratory Director

Client: GCI, Inc.	Client ID: Shirley 960155 (Collection Pit)
Date received: 7/18/96	Laboratory ID: 9611981
Date extracted: 7/22/96	Matrix: Soil
Date analyzed: 7/22/96	Contractor: 11418

S.C.D.H. VOLATILES

PARAMETER	CAS No.	RESULTS ug/kg
DICHLORODIFLUOROMETHANE	75-71-8	<5
CHLOROMETHANE	74-87-3	<5
VINYL CHLORIDE	75-01-4	<5
BROMOMETHANE	74-83-9	<5
CHLOROETHANE	75-00-3	<5
TRICHLOROFLUOROMETHANE	75-69-4	<5
1,1-DICHLOROETHENE	75-35-4	<5
METHYLENE CHLORIDE	75-09-2	<5
trans-1,2-DICHLOROETHENE	156-60-5	<5
1,1-DICHLOROETHANE	75-34-3	<5
2,2-DICHLOROPROPANE	594-20-7	<5
cis-1,2-DICHLOROETHENE	156-59-2	<5
BROMOCHLOROMETHANE	74-97-5	<5
CHLOROFORM	67-66-3	<5
1,1,1-TRICHLOROETHANE	71-55-6	<5
CARBON TETRACHLORIDE	56-23-5	<5
1,1-DICHLOROPROPENE	563-58-6	<5
BENZENE	71-43-2	<5
1,2-DICHLOROETHANE	107-06-2	<5
TRICHLOROETHENE	79-01-6	<5
1,2-DICHLOROPROPANE	78-87-5	<5
DIBROMOMETHANE	74-95-3	<5
BROMODICHLOROMETHANE	75-27-4	<5
cis-1,3-DICHLOROPROPENE	10061-01-5	<5
TOLUENE	108-88-3	<5
trans-1,3-DICHLOROPROPENE	10061-02-6	<5
1,1,2-TRICHLOROETHANE	79-00-5	<5
TETRACHLOROETHYLENE	127-18-4	<5
1,3-DICHLOROPROPANE	142-28-9	<5
DIBROMOCHLOROMETHANE	124-48-1	<5
1,2-DIBROMOETHANE	106-93-4	<5
CHLOROBENZENE	108-90-7	<5
1,1,1,2-TETRACHLOROETHANE	630-20-6	<5
ETHYLBENZENE	100-41-4	<5
STYRENE	100-42-5	<5
BROMOFORM	75-25-2	<5

Client: GCI, Inc.	Client ID: Shirley 960155 (Collection Pit)
Date received: 7/18/96	Laboratory ID: 9611981
Date extracted: 7/22/96	Matrix: Soil
Date analyzed: 7/22/96	Contractor: 11418

S.C.D.H. VOLATILES

PARAMETER	CAS No.	RESULTS ug/kg
ISOPROPYLBENZENE	98-82-8	<5
BROMOBENZENE	108-86-1	<5
1,1,2,2-TETRACHLOROETHANE	79-34-5	<5
1,2,3-TRICHLOROPROPANE	96-18-4	<5
n-PROPYLBENZENE	103-65-1	<5
2-CHLOROTOLUENE	95-49-8	<5
4-CHLOROTOLUENE	106-43-4	<5
1,3,5-TRIMETHYLBENZENE	108-67-8	<5
tert-BUTYLBENZENE	98-06-6	<5
1,2,4-TRIMETHYLBENZENE	95-63-6	<5
sec-BUTYLBENZENE	135-98-8	<5
1,3-DICHLOROBENZENE	541-73-1	<5
P-ISOPROPYLTOLUENE	99-87-6	<5
1,4-DICHLOROBENZENE	106-46-7	<5
1,2-DICHLOROBENZENE	95-50-1	<5
n-BUTYLBENZENE	104-51-8	<5
1,2-DIBROMO-3-CHLOROPROPANE	96-12-8	<5
1,2,4-TRICHLOROBENZENE	120-82-1	<5
HEXACHLOROBUTADIENE	87-68-3	<5
NAPHTHALENE	91-20-3	<5
1,2,3-TRICHLOROBENZENE	87-61-6	<5
2-CHLOROETHYLVINYL ETHER	110-75-8	<5
FREON 113	76-13-1	<5
p-DIETHYLBENZENE	105-05-5	<5
p-ETHYLTOLUENE	622-96-8	<5
1,2,4,5-TETRAMETHYLBENZENE	95-93-2	<5
ACETONE	67-64-1	<5
CHLORODIFLUOROMETHANE	75-45-6	<5
METHYL ETHYL KETONE	78-93-3	<5
METHYL ISOBUTYL KETONE	108-10-1	<5
XYLENES, Total	1330-20-7	<15

Michael Venaldi

Laboratory Director

Client: GCI, Inc.	Client ID: Shirley 960155 (Collection Pit)
Date received: 7/18/96	Laboratory ID: 9611981
Date extracted: 7/19/96	Matrix: Soil
Date analyzed: 7/19/96	Contractor: 11418

METALS ANALYSIS

PARAMETER	MDL	RESULTS mg/kg
SILVER, Ag	1.65 mg/kg	<1.65
BARIUM, Ba	3.33 mg/kg	7.83
CADMIUM, Cd	1.65 mg/kg	<1.65
COPPER, Cu	1.65 mg/kg	5.91
NICKEL, Ni	1.65 mg/kg	2.60
SELENIUM, Se	1.65 mg/kg	<1.65
IRON, Fe	1.65 mg/kg	1,471
MANGANESE, Mn	1.65 mg/kg	6.26
LEAD, Pb	1.65 mg/kg	18.6
MERCURY, Hg	0.020 mg/kg	<0.020
ARSENIC, As	6.60 mg/kg	<6.60
CHROMIUM, Cr	1.65 mg/kg	42.5
ZINC, Zn	1.65 mg/kg	1.97

Michael Veraldi

Laboratory Director

FENLEY & NICOL ENVIRONMENTAL INC.
NON-HAZARDOUS / NON-REGULATED WASTE MANIFEST
 PLEASE TYPE OR PRINT CLEARLY

07-17-96

JOB No 11047

GENERATOR OF WASTE

NAME Luitpold Pharm.

9620269

ADDRESS 76 Precision Drive. Shirley N.Y.

PHONE NUMBER _____

SITE LOCATION same as above

IDENTIFICATION OF WASTE

PROPER U.S. D.O.T. SHIPPING NAME STATE CODE CONTAINER TYPE QTY.

Soil containing heavy metal (other miscellaneous waste)	N899	Dump truck	2 yds
Spill # (if applicable)	ERG #		

GENERATOR'S CLASSIFICATION

This is to certify that the herein named materials are properly described, classified and are in proper condition for transportation according to the applicable regulations of the Department of Transportation, Environmental Protection Administration and Local State regulations. The wastes are described herein were consigned to the transporter named. The TSD Facility can and will accept the shipment of waste, and has a valid permit to do so. I certify that the foregoing is true and correct to the best of my knowledge.

GENERATOR'S CONTACT SUPERVISOR Agent for JOHN C TRUERS
and/or (Authorized Agent) please print or type

SUPERVISOR'S SIGNATURE [Signature] TITLE Agent For

TRANSPORTER NAME AND ADDRESS

NAME FENLEY & NICOL ENVIRONMENTAL INC.

ADDRESS 445 BROOK AVENUE, DEER PARK, NY 11729

PHONE NUMBER 24 Hour Emergency# (516) 586-4900

DRIVER'S NAME Mark Kessinger SIGNATURE Mark Kessinger

INDUSTRIAL WASTE HAULER PERMIT # 1A-036 VEHICLE PLATE # N23308

DISPOSAL SITE (Must be filled in by disposal site)

NAME OF FACILITY _____

ADDRESS OF FACILITY _____

PHONE NUMBER _____

This load was received as stated by generator YES NO

DISPOSAL SITE IDENTIFICATION NUMBER (if applicable) _____

DISPOSAL SITE INSPECTOR NAME _____

DAVID MARKOWITZ
METAL CO. INC.
SCRAP METAL SERVICE TO INDUSTRY
45 BROOK AVENUE
DEER PARK, L.I., N.Y. 11729
516 586-1010

DATE 7-18-96

CERTIFIED WEIGHT

GROSS 16280 LB GR 09:12 07/18/96
11680

TARE $4600 \div 2000 = 2.30$
TONS

NET

VEHICLE #

DRIVER

TRUCKED BY

Fleming: J. Wilson

COMMODITY

PRICE

RECEIVED FROM

SHIPPED TO

445 Brook Ave

CR

REMARKS

[Signature]

WEIGHED BY

Client: GCI	Client ID: Precision-Shirley (SB-5)
Date received: 1/28/97	Laboratory ID: 9711151
Date extracted: 1/29/97	Matrix: Liquid
Date analyzed: 1/29/97	Contractor: 11418

S.C.D.H. VOLATILES

PARAMETER	CAS No.	RESULTS ug/L
DICHLORODIFLUOROMETHANE	75-71-8	<5
CHLOROMETHANE	74-87-3	<5
VINYL CHLORIDE	75-01-4	<5
BROMOMETHANE	74-83-9	<5
CHLOROETHANE	75-00-3	<5
TRICHLOROFLUOROMETHANE	75-69-4	<5
1,1-DICHLOROETHENE	75-35-4	<5
METHYLENE CHLORIDE	75-09-2	<5
trans-1,2-DICHLOROETHENE	156-60-5	<5
1,1-DICHLOROETHANE	75-34-3	<5
2,2-DICHLOROPROPANE	594-20-7	<5
cis-1,2-DICHLOROETHENE	156-59-2	<5
BROMOCHLOROMETHANE	74-97-5	<5
CHLOROFORM	67-66-3	<5
1,1,1-TRICHLOROETHANE	71-55-6	<5
CARBON TETRACHLORIDE	56-23-5	<5
1,1-DICHLOROPROPENE	563-58-6	<5
BENZENE	71-43-2	<5
1,2-DICHLOROETHANE	107-06-2	<5
TRICHLOROETHENE	79-01-6	<5
1,2-DICHLOROPROPANE	78-87-5	<5
DIBROMOMETHANE	74-95-3	<5
BROMODICHLOROMETHANE	75-27-4	<5
cis-1,3-DICHLOROPROPENE	10061-01-5	<5
TOLUENE	108-88-3	<5
trans-1,3-DICHLOROPROPENE	10061-02-6	<5
1,1,2-TRICHLOROETHANE	79-00-5	<5
TETRACHLOROETHYLENE	127-18-4	<5
1,3-DICHLOROPROPANE	142-28-9	<5
DIBROMOCHLOROMETHANE	124-48-1	<5
1,2-DIBROMOETHANE	106-93-4	<5
CHLOROBENZENE	108-90-7	<5
1,1,1,2-TETRACHLOROETHANE	630-20-6	<5
ETHYLBENZENE	100-41-4	<5
STYRENE	100-42-5	<5
BROMOFORM	75-25-2	<5

Client: GCI	Client ID: Precision-Shirley (SB-5)
Date received: 1/28/97	Laboratory ID: 9711151
Date extracted: 1/29/97	Matrix: Liquid
Date analyzed: 1/29/97	Contractor: 11418

S.C.D.H. VOLATILES

PARAMETER	CAS No.	RESULTS ug/L
ISOPROPYLBENZENE	98-82-8	<5
BROMOBENZENE	108-86-1	<5
1,1,2,2-TETRACHLOROETHANE	79-34-5	<5
1,2,3-TRICHLOROPROPANE	96-18-4	<5
n-PROPYLBENZENE	103-65-1	<5
2-CHLOROTOLUENE	95-49-8	<5
4-CHLOROTOLUENE	106-43-4	<5
1,3,5-TRIMETHYLBENZENE	108-67-8	<5
tert-BUTYLBENZENE	98-06-6	<5
1,2,4-TRIMETHYLBENZENE	95-63-6	<5
sec-BUTYLBENZENE	135-98-8	<5
1,3-DICHLOROBENZENE	541-73-1	<5
P-ISOPROPYLTOLUENE	99-87-6	<5
1,4-DICHLOROBENZENE	106-46-7	<5
1,2-DICHLOROBENZENE	95-50-1	<5
n-BUTYLBENZENE	104-51-8	<5
1,2-DIBROMO-3-CHLOROPROPANE	96-12-8	<5
1,2,4-TRICHLOROBENZENE	120-82-1	<5
HEXACHLOROBUTADIENE	87-68-3	<5
NAPHTHALENE	91-20-3	<5
1,2,3-TRICHLOROBENZENE	87-61-6	<5
2-CHLOROETHYL VINYL ETHER	110-75-8	<5
FREON 113	76-13-1	<5
p-DIETHYLBENZENE	105-05-5	<5
p-ETHYLTOLUENE	622-96-8	<5
1,2,4,5-TETRAMETHYLBENZENE	95-93-2	<5
ACETONE	67-64-1	<5
CHLORODIFLUOROMETHANE	75-45-6	<5
METHYL ETHYL KETONE	78-93-3	<5
METHYL ISOBUTYL KETONE	108-10-1	<5
XYLENES, Total	1330-20-7	<15

Michael Vespa

Laboratory Director

Client: GCI	Client ID: Precision-Shirley (SB-5)
Date received: 1/28/97	Laboratory ID: 9711151
Date extracted: 1/29/97	Matrix: Liquid
Date analyzed: 1/29/97	Contractor: 11418

METALS ANALYSIS

PARAMETER	MDL	RESULTS mg/L
SILVER, Ag	0.05 mg/L	<0.05
BARIUM, Ba	1.0 mg/L	2.23
CADMIUM, Cd	0.05 mg/L	<0.05
COPPER, Cu	0.05 mg/L	8.79
NICKEL, Ni	0.05 mg/L	4.45
SELENIUM, Se	0.05 mg/L	1.15
IRON, Fe	0.05 mg/L	3,592
MANGANESE, Mn	0.05 mg/L	26.2
LEAD, Pb	0.05 mg/L	2.55
MERCURY, Hg	0.020 mg/L	<0.020
ARSENIC, As	0.05 mg/L	<0.05
CHROMIUM, Cr	0.05 mg/L	16.2
ZINC, Zn	0.05 mg/L	9.71

Michael Veral

Laboratory Director



Client: GCI	Client ID: Shirley (SB-6/Water)
Date received: 1/31/97	Laboratory ID: 9711357
Date extracted: 2/5/97	Matrix: Liquid
Date analyzed: 2/5/97	Contractor: 11418

METALS ANALYSIS

PARAMETER	MDL	RESULTS mg/L
SILVER, Ag	0.05 mg/L	<0.05
BARIUM, Ba	1.0 mg/L	<1.00
CADMIUM, Cd	0.05 mg/L	<0.05
COPPER, Cu	0.05 mg/L	1.35
NICKEL, Ni	0.05 mg/L	1.05
SELENIUM, Se	0.05 mg/L	0.41
IRON, Fe	0.05 mg/L	669
MANGANESE, Mn	0.05 mg/L	9.99
LEAD, Pb	0.05 mg/L	0.24
MERCURY, Hg	0.020 mg/L	<0.020
ARSENIC, As	0.05 mg/L	<0.05
CHROMIUM, Cr	0.05 mg/L	5.37
ZINC, Zn	0.05 mg/L	1.31

Michael Venable

Client: GCI	Client ID: Shirley (SB-6/Soil)
Date received: 1/31/97	Laboratory ID: 9711356
Date extracted: 2/10/97	Matrix: Soil
Date analyzed: 2/10/97	Contractor: 11418

S.C.D.H. VOLATILES

PARAMETER	CAS No.	RESULTS ug/kg
DICHLORODIFLUOROMETHANE	75-71-8	<5
CHLOROMETHANE	74-87-3	<5
VINYL CHLORIDE	75-01-4	<5
BROMOMETHANE	74-83-9	<5
CHLOROETHANE	75-00-3	<5
TRICHLOROFLUOROMETHANE	75-69-4	<5
1,1-DICHLOROETHENE	75-35-4	<5
METHYLENE CHLORIDE	75-09-2	<5
trans-1,2-DICHLOROETHENE	156-60-5	<5
1,1-DICHLOROETHANE	75-34-3	<5
2,2-DICHLOROPROPANE	594-20-7	<5
cis-1,2-DICHLOROETHENE	156-59-2	<5
BROMOCHLOROMETHANE	74-97-5	<5
CHLOROFORM	67-66-3	<5
1,1,1-TRICHLOROETHANE	71-55-6	<5
CARBON TETRACHLORIDE	56-23-5	<5
1,1-DICHLOROPROPENE	563-58-6	<5
BENZENE	71-43-2	<5
1,2-DICHLOROETHANE	107-06-2	<5
TRICHLOROETHENE	79-01-6	<5
1,2-DICHLOROPROPANE	78-87-5	<5
DIBROMOMETHANE	74-95-3	<5
BROMODICHLOROMETHANE	75-27-4	<5
cis-1,3-DICHLOROPROPENE	10061-01-5	<5
TOLUENE	108-88-3	<5
trans-1,3-DICHLOROPROPENE	10061-02-6	<5
1,1,2-TRICHLOROETHANE	79-00-5	<5
TETRACHLOROETHYLENE	127-18-4	<5
1,3-DICHLOROPROPANE	142-28-9	<5
DIBROMOCHLOROMETHANE	124-48-1	<5
1,2-DIBROMOETHANE	106-93-4	<5
CHLOROBENZENE	108-90-7	<5
1,1,1,2-TETRACHLOROETHANE	630-20-6	<5
ETHYLBENZENE	100-41-4	<5
STYRENE	100-42-5	<5
BROMOFORM	75-25-2	<5

Client: GCI	Client ID: Shirley (SB-6/Soil)
Date received: 1/31/97	Laboratory ID: 9711356
Date extracted: 2/10/97	Matrix: Soil
Date analyzed: 2/10/97	Contractor: 11418

S.C.D.H. VOLATILES

PARAMETER	CAS No.	RESULTS ug/kg
ISOPROPYL BENZENE	98-82-8	<5
BROMOBENZENE	108-86-1	<5
1,1,2,2-TETRACHLOROETHANE	79-34-5	<5
1,2,3-TRICHLOROPROPANE	96-18-4	<5
n-PROPYLBENZENE	103-65-1	<5
2-CHLOROTOLUENE	95-49-8	<5
4-CHLOROTOLUENE	106-43-4	<5
1,3,5-TRIMETHYLBENZENE	108-67-8	<5
tert-BUTYLBENZENE	98-06-6	<5
1,2,4-TRIMETHYLBENZENE	95-63-6	<5
sec-BUTYLBENZENE	135-98-8	<5
1,3-DICHLOROBENZENE	541-73-1	<5
P-ISOPROPYLTOLUENE	99-87-6	<5
1,4-DICHLOROBENZENE	106-46-7	<5
1,2-DICHLOROBENZENE	95-50-1	<5
n-BUTYLBENZENE	104-51-8	<5
1,2-DIBROMO-3-CHLOROPROPANE	96-12-8	<5
1,2,4-TRICHLOROBENZENE	120-82-1	<5
HEXACHLOROBUTADIENE	87-68-3	<5
NAPHTHALENE	91-20-3	<5
1,2,3-TRICHLOROBENZENE	87-61-6	<5
2-CHLOROETHYL VINYL ETHER	110-75-8	<5
FREON 113	76-13-1	<5
p-DIETHYLBENZENE	105-05-5	<5
p-ETHYLTOLUENE	622-96-8	<5
1,2,4,5-TETRAMETHYLBENZENE	95-93-2	<5
ACETONE	67-64-1	<5
CHLORODIFLUOROMETHANE	75-45-6	<5
METHYL ETHYL KETONE	78-93-3	<5
METHYL ISOBUTYL KETONE	108-10-1	<5
XYLENES, Total	1330-20-7	<15

Michael Verotta
Laboratory Director

Client: GCI	Client ID: Shirley (SB-6/Soil)
Date received: 1/31/97	Laboratory ID: 9711356
Date extracted: 2/5/97	Matrix: Soil
Date analyzed: 2/5/97	Contractor: 11418

METALS ANALYSIS

PARAMETER	MDL	RESULTS mg/kg
SILVER, Ag	1.65 mg/kg	<1.65
BARIUM, Ba	3.33 mg/kg	<3.33
CADMIUM, Cd	1.65 mg/kg	<1.65
COPPER, Cu	1.65 mg/kg	<1.65
NICKEL, Ni	1.65 mg/kg	<1.65
SELENIUM, Se	1.65 mg/kg	<1.65
IRON, Fe	1.65 mg/kg	1,001
MANGANESE, Mn	1.65 mg/kg	23.3
LEAD, Pb	1.65 mg/kg	<1.65
MERCURY, Hg	0.020 mg/kg	<0.020
ARSENIC, As	6.60 mg/kg	<6.60
CHROMIUM, Cr	1.65 mg/kg	2.51
ZINC, Zn	1.65 mg/kg	4.47



Laboratory Director

CHAIN OF CUSTODY / REQUEST FOR ANALYSIS DOCUMENT

CLIENT NAME/ADDRESS: MCI, Inc.
 CONTACT: Matt Boeckel
 PROJECT LOCATION: 25 Baylis Road, Melville, NY 11747

SAMPLER SIGNATURE: Matthew Boeckel
 DATE: 5/16
 TIME: 11:20
 SAMPLE(S) SEALED: YES NO
 CORRECT CONTAINER(S): YES NO

SAMPLER NAME (PRINT): MATTHEW BOECKEL
 ANALYSIS REQUIRED: EPA 624 SC, DR, MEKS
 P.O.#

LABORATORY ID #	MATRIX	TYPE	PRES.	SAMPLE # - LOCATION	P.O.#
9611305	L	C	HC	SB-1 (GW)	
9611306	L	C		SB-4 (GW)	
9611307	SL	C		DW-1	
9611308	SL	C		DW-2	

MATRIX S=SOIL; L=LIQUID; SL=SLUDGE; A=AIR; W=WIPE; P=PAINT CHIPS; B=BULK MATERIAL
 TYPE G=GRAB; C=COMPOSITE, SS=SPLIT SPOON
 TURNAROUND REQUIRED: NORMAL STATO BY 1/1
 RECEIVED BY LAB (SIGNATURE): Stephanie Szwed
 RECEIVED BY LAB (SIGNATURE): [Signature]
 DATE 5/16 TIME 11:20
 DATE 5/17 TIME 11:20
 PRINTED NAME: MATTHEW BOECKEL
 PRINTED NAME: S. Zaremski
 COMMENTS / INSTRUCTIONS: EPA 624 @ \$185.00 per sample as per Mike Bialki.

CHAIN OF CUSTODY / REQUEST FOR ANALYSIS DOCUMENT

CLIENT NAME/ADDRESS GCat, Inc 125 Baylis Road PROJECT LOCATION: Shirley				CONTACT: Matt Beckel				ANALYSIS REQUIRED Total / Smoke		DATE/TIME 5/23		SAMPLE(S) SEALED YES / NO	
LABORATORY ID # 9611357				MATRIX C		TYPE C		PRES. 4c		SAMPLE # - LOCATION SB-2(GW)		CORRECT CONTAINER(S) YES / NO	
RELINQUISHED BY (SIGNATURE) Matt Beckel				PRINTED NAME MATT Beckel				DATE/TIME 5/23 3:00		PRINTED NAME M.E. Tripi			
RELINQUISHED BY (SIGNATURE)				PRINTED NAME				DATE/TIME		PRINTED NAME			

APPENDIX C

Michael Veraldi

Work Related Experience:

Mr. Veraldi has over 15 years of experience as a chemist in the environmental field and has been a New York State Department of Health (NYSDOH) Certified Environmental Laboratory Director of three laboratories for the past 13 years. Mr. Michael Veraldi in partnership with Mr. Domenik Veraldi Jr., founded Long Island Analytical Laboratories Inc. (LIAL) a NYSDOH and certified Laboratory and consulting firm in Holbrook, New York. In that time he has overseen and supervised the design and growth of two analytical laboratories. He has taken the first laboratory, KBF- Pollution Management Inc. of Lindenhurst, from a startup laboratory in 1987 to a publicly traded firm. At the time of his departure in May 1993 the laboratory enjoyed net sales in excess of 4 million dollars. In May of 1993 he co-founded American Analytical Laboratories Inc. (AAL) again starting the company from scratch, and finally selling his shares to his partners in August of 1998. For the fiscal year ending December 1997 American Analytical Laboratories had gross sales of approximately one Million dollars and a declared profit margin in excess of 30%.

At the time of departure from AAL the laboratory was certified for over 300 parameters spanning the four major categories including drinking water, waste water, soil and solid waste, as well as air and emissions. As laboratory director, Mr. Veraldi is familiar with most EPA, and DEC methods for the analysis of volatile and semi-volatile organics, pesticides and PCB's herbicides, metals and inorganic water chemistry.

In his tenure at KBF and AAL, Mr. Veraldi has had the following responsibilities:

- Supervised an analytical and support staff of over 25 members.
- Liaison between laboratory and governmental agencies: EPA, NYSDOH, NYSDEC, Nassau County Dept. of Health, Suffolk County Dept. of Health.
- Liaison between laboratory and the client base.
- Liaison between laboratory and its sub-contractors.
- In charge of sales and marketing.
- In charge of accounts receivable and payable.
- Securing price quotes and issuing purchase orders company wide.
- Invoicing and other administrative responsibilities.

In addition, Mr. Veraldi has 9 years of experience working for two New York Licensed Hazardous Waste Treatment Facilities (TSDF) on Long Island (KBF Pollution Management Inc. of Lindenhurst, and Republic Environmental System Inc. of Farmingdale). Mr. Veraldi has established an excellent rapport with NYSDEC, SCDH, and NCDH over the year's by working interactively with these agencies. Mr. Veraldi has closely worked with the regulatory agencies on groundwater remediation projects, underground storage tank removals and installations, and large and small releases of petroleum products and/or hazardous materials. In addition, Mr. Veraldi has been contracted and approved by several banking institutions to complete Phase I and Phase II site assessments regarding commercial property transfers.

Certifications/Affiliations/Professional Education: (See appendix C)

- ***NYS Department of Health Environmental Laboratory Director #11418***
- ***Department of Health and Human Services Certification #15668***
- ***American Industrial Hygiene Association #15668***
- ***Occupational Safety and Health Administration 40 Hour course***
- ***Occupational Safety and Health Administration supervisors course***
- ***Member of the Chemical Society***
- ***Member of the Applied Chemist Society***
- ***Member of the National Groundwater Association***
- ***Perkin-Elmer Training Program for Gas Chromatography***
- ***Perkin-Elmer Training Program for Gas Chromatography/Ion Trap Detector***
- ***NYS DOL licensed asbestos inspector***
- ***Numerous articles in Mealey's Litigation Reports***
- ***Thermo Jarrell Ash training in ICAP***
- ***Varian Instruments training on Furnace Atomic Absorption***
- ***Varian Instruments training on Atomic Absorption***
- ***Polarized Light Microscopy training for asbestos***

Following is a partial list of the most current cases for which Mr. Michael Veraldi has provided expert testimony or an affidavit:

Insurance Carrier	Case	Legal Firm
Empire Insurance	Pichardo #7570EMP	Armienti, Brooks & Dunphy
Empire Insurance	Morales #EML0019	Armienti, Brooks & Dunphy
Empire Insurance	Hartley #7761EML	Armienti, Brooks & Dunphy
Empire Insurance	Davis #82694EML	Armienti, Brooks & Dunphy
Empire Insurance	Shepherd #EML0141	Armienti, Brooks & Dunphy
Investors Insurance Group	Lopez #IIG0643	Armienti, Brooks & Dunphy
Royal Insurance	Andmo #RYL0323	Armienti, Brooks & Dunphy
Prudential Insurance	Ramos #PWI0009	Armienti, Brooks & Dunphy
Empire Insurance	Reyes #EML8069	Armienti, Brooks & Dunphy
Empire Insurance	Morgan #8158EML	Armienti, Brooks & Dunphy
Travelers Insurance Group	Jones #ITC9452	Armienti, Brooks & Dunphy
Empire Insurance	Randolph #EM225	Executive Claims Services
Transtate Insurance Company	Rodriguez	Roura & Melamed
Loin Claims	Dula RVP/4000	Pino Associates
LTD, Inc.	Lowery #250	Garritty, Graham & Favetta

Michael Veraldi
5 Almike Drive
Centereach, New York 11720
(516) 585-3701

EDUCATION:

State University of New York At Farmingdale,
Farmingdale, New York 11735
A.A.S. Biological Technology, December 1984

State University of New York at Stony Brook,
Stony Brook, New York 11794
B.S. Biological Sciences, May 1987

EMPLOYMENT HISTORY:

- **LABORATORY DIRECTOR (CO-FOUNDER)**
May 1993-August 1998
American Analytical Laboratories Inc.
56 Toledo Street Farmingdale, New York 11735
- **GENERAL MANAGER/LABORATORY DIRECTOR**
October 1992- May 1993
Republic Environmental Systems Inc.
340 Eastern Pkwy Farmingdale, New York 11735
- **LABORATORY DIRECTOR**
September 1988-October 1992
KBF Pollution Management Inc.
1110 Route 109 Lindenhurst, New York 11757
- **RESEARCH CHEMIST**
September 1987 to September 1988
KBF Pollution Management Inc.
1110 Route 109 Farmingdale, New York 11757

MEALEY'S LITIGATION REPORTS LEAD

December 2, 1996

Vol. 6, #5

Bronx Jury Awards Twins \$7.5 Million For Lead Injuries

BRONX, N.Y. — A Bronx jury has awarded \$6 million to one child and \$1.5 million to a twin for injuries attributed to lead exposure at a Bronx apartment (Isamar Rodriguez, et al. v. Grand Esperance Ltd., et al., No. 12060/92, N.Y. Sup., Bronx Co.).

Minor plaintiffs were Isamar and Tahiri Rodriguez. Defendants were Grand Esperance Ltd., Karpf & Co. and Zvia Gutman, a principal in both companies.

The mother of Isamar and Tahiri Rodriguez reported that the first signs of exposure were in April 1992, when the children experienced stomach aches and vomiting.

Isamar's initial blood-lead test showed a level of 40 micrograms per deciliter (ug/dl). Tahiri's was 38 ug/dl. The elevated lead levels continued to June 1993.

A city inspection revealed 15 lead paint violations at the family's apartment and a violation notice was reportedly sent to Grand Esperance.

Defendants contended that a May 5, 1992, order to abate was sent to an inadequate address and was not received, and that another notice sent May 28 was received June 3 and resulted in the 15 violations being corrected on June 4 and 5.

Grand Esperance asserted, too, that a reinspection on June 22 showed compliance.

Defendants also maintained exposure came from other sources, contending that the children's elevated lead levels after the family moved (in May 1993) indicated other sources.

Plaintiffs successfully moved *in limine* to exclude defense evidence that soil samples from a park across the street had elevated lead levels.

Plaintiffs' experts included pediatric neurologist

Luz Townes Miranda, Ph.D. They also relied on chemist Michael Veraldi.

Defendants relied on neurologist Hart deC. Peterson, M.D., psychiatrist and neurologist William Head, M.D., and environmental scientist Richard Joao of Westchester, N.Y.

Plaintiffs demanded \$1 million for each child prior to trial, according to one source. The demand prior to verdict was said to be \$500,000 for Isamar and \$1 million for Tahiri. Grand Esperance reportedly offered \$100,000 for one child and \$250,000 for the other prior to verdict.

The insurer is Transtate Insurance Co. There is said to be a policy providing a \$1 million limit per claim.

The jury awarded Isamar Rodriguez \$500,000 for past pain and suffering and \$1 million for future pain and suffering. Tahiri Rodriguez was awarded \$1 million for past pain and suffering and \$5 million for future pain and suffering. The jury projected both children's life expectancies to be 73.

Post-trial motions are due before Justice Jerry Crispino by Dec. 23.

The Rodriguezes are represented by Walter P. Roura of Roura & Melamed of New York. Grand Esperance, Karpf & Co. and Gutman are represented by Paul J. Bottari of Wilson, Elser, Moskowitz, Edelman & Dicker of New York. ■

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Perkin-Elmer
is pleased to certify that

MICHAEL D. VERALDI

has completed a course
in the fundamentals, applications
and instrumentation of

GAS CHROMATOGRAPHY.

Accordingly, Perkin-Elmer is
pleased to award 1.2
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for meritorious completion
of this course.

Clelia O'Keefe

Administrator
Customer Training and Relations

Rayna M. Kelly

President
Perkin-Elmer Corporation

August 1987

Date

PERKIN-ELMER

Perkin-Elmer
is pleased to certify that

MICHAEL VERALDI

has completed the
following training program:


GAS CHROMATOGRAPHY

ION TRAP DETECTOR

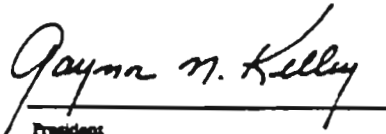
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Technical Instructor



Senior Manager Technical Training



President
The Perkin-Elmer Corporation

03-20-89

Date

PERKIN ELMER

**Technical
Training
Center**



The
American Chemical Society

recognizes

Michael Veraldi

*as a graduate with a bachelor's degree
meeting the Society's criteria
for professional education*

Chairman
Committee on Professional Training
American Chemical Society

Executive Director
American Chemical Society

Certificate

Awarded to

Michael Veraldi

in recognition of successful completion of a course in

INDUCTIVELY COUPLED ARGON PLASMA EMISSION SPECTROSCOPY

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A subsidiary of

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Dated

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Michael Veraldi

has attended the Varian Furnace Atomic Absorption

*Training Course, and is hereby awarded this
Diploma for having satisfactorily completed the
course of instruction in the theory and practice of
furnace atomic absorption, this 31st day of*

JANUARY

19 92

at _____
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Thomas A Pasenoy

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instrument group

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course of instruction in the theory and practice of

basic atomic absorption, this _____ *25th* _____ *day of* _____ *OCTOBER* _____,

*19*91 _____ *at* _____ *VARIAN, 25 HANOVER ROAD, FLORHAM PARK, NJ 07932* _____.

_____ *Thomas A. Lawrence* _____

ATC Environmental, Inc.
104 East 25th Street, New York, NY 10010
(212) 353-8280

certifies that

Michael Veraldi

094-64-7487

(Social Security Number)

*Has Successfully Completed the New York State Department of Health
Approved Course and Examination for*

Asbestos Inspector

on

September 23 - 25, 1996


This course meets the requirements of TSCA Title II

Certificate#: **NYS-RHIII-177**

Course Location: **ATC**

Expiration Date: **09-25-97**

Exam Grade: **100%**

Signed: 

Roñey Rivero, Interim Director of Training

ATC Associates Inc.
104 East 25th Street, New York, NY 10010
(212) 353-8280

certifies that

MICHAEL VERALDI

094-64-7487

(Social Security Number)

*Has Successfully Completed the Accredited EPA-AHERA/ASHARA under 40 CFR 763 and the
New York State Department of Health Approved Course and Examination for*

Asbestos Inspector Refresher

on

DECEMBER 05, 1997

This course meets the requirements of TSCA Title II

Certificate #: NYS-RHIIIR-374

Course Location: ATC

Expiration Date: 12-05-98

Exam Grade: N/A



Signed: _____

THE
NATIONAL GROUND WATER ASSOCIATION
acknowledges that

Mike Veraldi

is a member of the National Ground Water Association, whose mission is to provide professional and technical leadership in the advancement of the ground water industry and in the protection, the promotion, and the responsible development and use of ground water resources.



A handwritten signature in black ink, appearing to read "Pete Thein".

Pete Thein, MGWC
NGWA President

Renewal Date 9/06

TAKKA

INSTRUCTIONAL AGENCY

certifies that

Michael Paradisi

has successfully completed an intensive course

of instruction in

IDENTIFICATION OF ASBESTOS BY POLARIZED LIGHT MICROSCOPY

Presented this 2ND day of OCTOBER, 1993

Thomas A. Belbin

Instructor

Thomas A. Belbin

Agency Director



AP GERAGHTY
AP & MILLER, INC.
Environmental Services

Certificate of Completion

Presented To

Michael Veraldi

In Recognition of Having Successfully Completed
the Prescribed Course of Study for
8-Hour Superhazardous Course for
Hazardous Waste Operations and Emergency Response

Conshohocken, Pennsylvania

Richard M. Miller

President
American Ecology Services, Inc.

July 15, 1991

Genevieve J. Dancy

Course Director
Geography & Miller, Inc.

ACHIEVEMENT CERTIFICATE

This certificate has been awarded by
SUMMIT ENVIRONMENTAL EVALUATIONS, INC.
Presented To

MIKE VERALDI

*For Having Successfully Completed
the Prescribed Course of Study for
Hazardous Waste Site Activities
40 - Hour Initial
Health and Safety Training*

John Sabatino
INSTRUCTOR

JUNE 10, 1989

DATE

State of Connecticut, Department of Public Health

Approved Environmental Laboratory

THIS IS TO CERTIFY THAT THE LABORATORY DESCRIBED BELOW HAS BEEN APPROVED BY THE STATE DEPARTMENT OF PUBLIC HEALTH PURSUANT TO APPLICABLE PROVISIONS OF THE PUBLIC HEALTH CODE AND GENERAL STATUTES OF CONNECTICUT, FOR MAKING THE EXAMINATIONS, DETERMINATIONS, OR TESTS SPECIFIED BELOW WHICH HAVE BEEN AUTHORIZED IN WRITING BY THAT DEPARTMENT

.....
AMERICAN ANALYTICAL LABORATORIES, INC......

LOCATED AT .. 56 Toledo Street..... IN Farmingdale, NY 11735.....AND
REGISTERED IN THE NAME OF .. **MICHAEL VERALDI**

THIS CERTIFICATE IS ISSUED IN THE NAME OF **MICHAEL VERALDI**.....WHO HAS BEEN
DESIGNATED BY THE REGISTRANT TO BE IN CHARGE OF THE LABORATORY WORK COVERED BY THIS CERTIFICATE OF APPROVAL AS FOLLOWS:

POTABLE WATER, WASTEWATER AND/OR TRADE WASTE, SEWAGE, AND/OR EFFLUENT, SOIL

Examination for:
Inorganic Chemicals
Organic Chemicals

SEE COMPUTER PRINT-OUT FOR SPECIFIC TESTS APPROVED

THIS CERTIFICATE EXPIRES .. **December 31**, 19**8** AND IS REVOCABLE FOR CAUSE BY THE STATE DEPARTMENT OF
PUBLIC HEALTH AT HARTFORD, CONNECTICUT, THIS .. **25th** DAY OF .. **July** 19**77**.



Paul Schur

PH- 0205

DIRECTOR, DIVISION OF ENVIRONMENTAL HEALTH



STATE OF NEW YORK - DEPARTMENT OF LABOR
DIVISION OF SAFETY AND HEALTH
License and Certificate Unit
ONE MAIN STREET
BROOKLYN, NY 11201

ASBESTOS HANDLING LICENSE

LICENSE NUMBER: AC-97-0520
DATE OF ISSUE: 07-10-97
EXPIRATION DATE: 05-31-98

Contractor: AMERICAN ANALYTICAL LABORATORIES
Address: 56 TOLEDO STREET
FARMINGDALE, NY 11735

Duly Authorized Representative: MICHAEL VERALDI

This license has been issued in accordance with applicable provisions of Article 30 of the Labor Law of New York State and of the New York State Codes, Rules and Regulations (12 NYCRR Part 56). It is subject to suspension or revocation for a (1) serious violation of state, federal or local laws with regard to the conduct of an asbestos project, or (2) demonstrated lack of responsibility in the conduct of any job involving asbestos or asbestos material.

This license is valid only for the contractor named above and this license or a photocopy must be prominently displayed at the asbestos project worksite. The licensee verifies that all persons employed by the licensee on an asbestos project in New York State have been issued an Asbestos Certificate, appropriate for the type of work they perform, by the New York State Department of Labor.

Maria L. Colavito

Maria L. Colavito, Director
FOR THE COMMISSIONER OF LABOR

NEW YORK STATE DEPARTMENT OF HEALTH

BARBARA A. DEBUONO, M.D., M.P.H. Commissioner



Expires 12:01 AM April 1, 1997
ISSUED April 1, 1997
REVISED October 2, 1997

CERTIFICATE OF APPROVAL FOR LABORATORY SERVICE

Issued in accordance with and pursuant to section 502 Public Health Law of New York State

Lab ID No.: 11418

Director: MR. MICHAEL VERALDI

Lab Name: AMERICAN ANALYTICAL LABORATORIES

Address : 56 TOLEDO STREET
FARMINGDALE NY 11735

is hereby APPROVED as an Environmental Laboratory for the category

ENVIRONMENTAL ANALYSES/ POTABLE WATER

All approved subcategories and/or analytes are listed below:

ing Water Metals I (ALL)

erial No.: 100991

Wadsworth Center

NEW YORK STATE DEPARTMENT OF HEALTH

BARBARA A. DEBUONO, M.D., M.P.H. Commissioner



Expires 12:01 AM April 1, 1998
ISSUED April 1, 1997
REVISED October 2, 1997

CERTIFICATE OF APPROVAL FOR LABORATORY SERVICE

Issued in accordance with and pursuant to section 502 Public Health Law of New York State

Lab ID No. : 11418

Director: MR. MICHAEL VERALDI
Lab Name: AMERICAN ANALYTICAL LABORATORIES
Address : 56 TOLEDO STREET
FARMINGDALE NY 11735

is hereby APPROVED as an Environmental Laboratory for the category

ENVIRONMENTAL ANALYSES NON POTABLE WATER

All approved subcategories and/or analytes are listed below:

- | | | | |
|--------------------------|-------------------------|--------------------------------|-------------------------------------|
| Hydrocarbon Pesticides : | Polynuclear Aromatics : | Wastewater Miscellaneous : | Chlorophenoxy Acid Pesticides : |
| -DDO | Acenaphthene | Cyanide, Total | 2,4-D |
| -DDE | Acenaphthylene | Oil & Grease Total Recoverable | 2,4,5-TP (Silvex) |
| -DDT | Benzo(a)anthracene | Hydrogen Ion (pH) | Acrolein and Acrylonitrile (ALL) |
| a-BHC | Benzo(a)pyrene | Specific Conductance | Benzidines (ALL) |
| in | Benzo(b)fluoranthene | Temperature | Chlorinated Hydrocarbons (ALL) |
| -BHC | Benzo(g,h)perylene | Salicythars (ALL) | Wastewater Metals I (ALL) |
| rdane Total | Benzo(k)fluoranthene | Wastewater Metals II (ALL) | Nitroaromatics and Isophorone (ALL) |
| t-BHC | Chrysene | Nitrosamines (ALL) | Polychlorinated Biphenyls (ALL) |
| rin | Dibenzo(a,h)anthracene | Phthalate Esters (ALL) | Priority Pollutant Phenols (ALL) |
| n aldehyde | Fluoranthene | Purgeable Aromatics (ALL) | Purgeable Halocarbons (ALL) |
| n | Fluorene | Residue (ALL) | TCLP Additional Compounds (ALL) |
| ulfan I | Indeno(1,2,3-cd)pyrene | | |
| ulfan II | Naphthalene | | |
| ulfan sulfate | Phenanthrene | | |
| chlor | Pyrene | | |
| chlor epoxide | | | |
| ic | | | |
| ychlor | | | |
| ene | | | |

ial No.: 100990

Wadsworth Center

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NEW YORK STATE DEPARTMENT OF HEALTH

BARBARA A. DEBUONO, M.D., M.P.H. Commissioner



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Lab ID No.: 11418

Director: MR. MICHAEL VERALDI
Lab Name: AMERICAN ANALYTICAL LABORATORIES
Address : 56 TOLEDO STREET
FARMINGDALE NY 11735

is hereby APPROVED as an Environmental Laboratory for the category

ENVIRONMENTAL ANALYSES/AIR AND EMISSIONS

All approved subcategories and/or analytes are listed below:

Various Air :
NY

Metals I (ALL)

Purgeable Aromatics (ALL)

Lab No.: 100992

Wadsworth Center

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NEW YORK STATE DEPARTMENT OF HEALTH

BARBARA A. DEBUONO, M.D., M.P.H. Commissioner



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REVISED October 2, 1997

CERTIFICATE OF APPROVAL FOR LABORATORY SERVICE

Issued in accordance with and pursuant to section 502 Public Health Law of New York State

Lab ID No.: 11418

Director: MR. MICHAEL VERALDI
Lab Name: AMERICAN ANALYTICAL LABORATORIES
Address : 56 TOLEDO STREET
FARMINGDALE NY 11735

is hereby APPROVED as an Environmental Laboratory for the category

ENVIRONMENTAL ANALYSES/SOLID AND HAZARDOUS WASTE

All approved subcategories and/or analytes are listed below:

Acidic Testing :	Miscellaneous :	Acrolein and Acrylonitrile (ALL)	Chlorinated Hydrocarbons (ALL)
Acidity	Cyanide, Total	Alcohols (ALL)	Metals I (ALL)
Alkalinity	Lead in Paint	Metals II (ALL)	Nitroaromatics Isophorone (ALL)
Alkalinity	Hydrogen Ion (pH)	Polychlorinated Biphenyls (ALL)	Phthalate Esters (ALL)
Metals Only	Priority Pollutant Phenols (ALL)	Purgeable Aromatics (ALL)	Purgeable Halocarbons (ALL)

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APPENDIX D

**New York State Department of Environmental Conservation
Division of Environmental Remediation**

**Guidance for the Development of
Data Usability Summary Reports**

Background:

The Data Usability Summary Report (DUSR) provides a thorough evaluation of analytical data without the costly and time consuming process of third party data validation. The primary objective of a DUSR is to determine whether or not the data, as presented, meets the site/project specific criteria for data quality and data use.

Though the substitution of a DUSR for a full third party data validation may seem to be a relaxation of the Division's quality assurance requirements, this is definitely not the case. The development of the DUSR must be carried out by an experienced environmental scientist, such as the project Quality Assurance Officer, who is fully capable of conducting a full data validation. Furthermore, the DUSR is developed from a full New York State Department of Environmental Conservation Analytical Services Protocol (NYSDEC ASP) Category B or a United States Environmental Protection Agency Contract Laboratory Protocol (USEPA CLP) deliverables package.

The DUSR and the data deliverables package will be reviewed by the Division's Quality Assurance Unit. In most cases, we expect that this review will result in agreement or with only minor differences that can be easily reconciled. If data validation is found to be necessary (e.g. pending litigation) this can be carried out at a later date on the same data package used for the development of the DUSR.

Personnel Requirements:

The Environmental Scientist preparing the DUSR must hold a Bachelors Degree in a relevant natural or physical science or field of engineering and must submit a resume to the Division's Quality Assurance Unit documenting experience in environmental sampling, analysis and data review.

Preparation of a DUSR:

The DUSR is developed by reviewing and evaluating the analytical data package. During the course of this review the following questions must be asked and answered:

1. Is the data package complete as defined under the requirements for the NYSDEC ASP Category B or USEPA CLP deliverables?
2. Have all holding times been met?
3. Do all the QC data: blanks, instrument tunings, calibration standards, calibration verifications, surrogate recoveries, spike recoveries, replicate analyses, laboratory controls and sample data fall within the protocol required limits and specifications?
4. Have all of the data been generated using established and agreed upon analytical protocols?
5. Does an evaluation of the raw data confirm the results provided in the data summary sheets and quality control verification forms?
6. Have the correct data qualifiers been used ?

Once the data package has been reviewed and the above questions asked and answered the DUSR proceeds to describe the samples and the analytical parameters. Data deficiencies, analytical protocol deviations and quality control problems are identified and their effect on the data is discussed. The DUSR shall also include recommendations on resampling/reanalysis. All data qualifications must be documented following the NYSDEC ASP '95 Rev. guidelines.

Contact the Division of Environmental Remediation Quality Assurance Group at (518) 457- 9280, with any questions on the preparation of a DUSR.

Revised 09/97

APPENDIX E

**HEALTH AND SAFETY PLAN (HASP)
FOR
FOCUSED REMEDIAL INVESTIGATION ACTIVITIES**

**26 PRECISION DRIVE
SHIRLEY, NEW YORK 11967**

SEPTEMBER 1998

Prepared by:

**Kempey Engineering
4 Brunswick Drive
Northport, New York 11731
516-368-3324**

&

**General Consolidated Industries, Inc. (GCI)
125 Baylis Road
Melville, New York 11747
516-694-7878**

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SITE WORKER HEALTH AND SAFETY STATEMENT

I have read the Health and Safety Plan (HASP) for the Remedial Investigation at the 26 Precision Drive, Shirley, New York, and I have reviewed and understand the potential hazards and the precautions/contingencies of each potential hazard.

I agree to abide by the stipulations of this HASP and further agree to hold Kempey Engineering or General Consolidated Industries, Inc. (GCI) harmless from, and indemnify against, any accidents which may occur as a result of activities at the site regardless of whether or not they were covered in the HASP.

(Sign)

(Printed Name)

(Representing)

(Date)

(Sign)

(Printed Name)

(Representing)

(Date)

(Sign)

(Printed Name)

(Representing)

(Date)

(Sign)

(Printed Name)

(Representing)

(Date)

1.0 INTRODUCTION

This Health and Safety Plan (HASP) has been written for compliance with "OSHA Hazardous Waste Operations Standards (29 CFR 1910.120)", the guidance documents, "Standard Operating Safety Guidelines (Office of Solid Waste and Emergency Response, 1988)", and the "Occupational Safety and Health Guidance Manual for Hazardous Waste Activities (US Department of Health and Human Services, 1985)".

1.1 Scope and applicability of the HASP

This HASP is designed to be applicable to locations where soil sampling are performed at the 26 Precision Drive site (the "site") in Shirley, New York by all parties that either perform or witness the activities on site. This HASP may also be modified or amended to meet specific needs of the work proposed. This HASP will detail the site safety procedures, site background, and safety monitoring. Contractors will be required to adopt this HASP in full.

The Health and Safety Officer (HSO) will be present at the site to inspect the implementation of the HASP, however, it is the sole responsibility of the contractor(s) to comply with the HASP.

The HASP has been formulated as a guide to complement professional judgement and experience. The appropriateness of the information presented should always be evaluated with respect to unforeseen site conditions which may arise.

1.2 Site Work Zone and Visitors

The site work zone (aka exclusion zone) during the soil sampling will be a thirty (30) foot radius about the work location.

This work zone may be extended if, in the judgement of the health and safety officer (HSO), site conditions warrant a larger work zone.

No visitors will be permitted within the work zone without the consent of the HSO. All visitors will be required to be familiar with, and comply with, the HASP. The HSO will deny access to those whose presence within the work zone is unnecessary or those who are deemed by the HSO to be in non-compliance with the HASP.

All site workers including the contractors will be required to have forty (40) hour hazardous material training (eight (8) hour refresher courses annually), respirator fit test certification, and medical surveillance as stated in 29 CFR 1910.120.

Copies of documentation certifying the above listed requirements will be kept at the site in the possession of the HSO.

The HSO will also give an on-site health and safety discussion to all site personnel, including the contractors prior to initiating the site work. Workers not in attendance during the health and safety talk will be required to have the discussion with the HSO prior to entering the work zone.

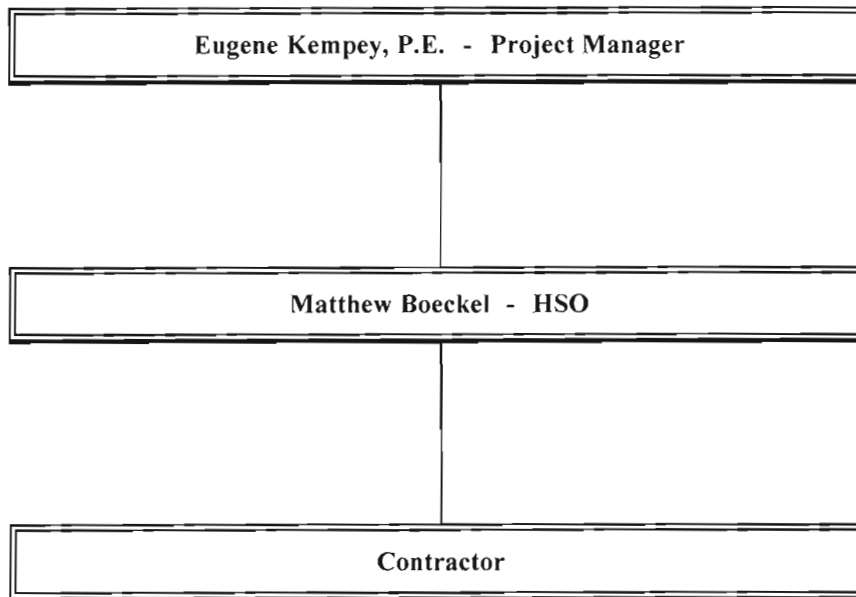
Emergency telephone numbers and directions to the nearest hospital will be kept at the site in the possession of the HSO and will be available to all site workers and visitors.

2.0 KEY PERSONNEL/ALTERNATES

The key personnel/alternates and their responsibilities are given in Figure 1. The project manager for this project is Mr. Eugene Kempey, P.E. The project hydrogeologist will be Mr. Matthew Boeckel, Senior Hydrogeologist. Mr. Boeckel will also act as HSO.

FIGURE 1

**Personnel Organizational Responsibility Chart
For
Health and Safety**



3.0 SITE BACKGROUND

3.1 Site History and Known Chemical Constituents at the Site

The site is located at 26 Precision Drive, identified on the tax map as Section 584, Block 1, Lot 4.034. The subject site is approximately 1,343 feet east of William Floyd Parkway, Town of Brookhaven, Suffolk County, Long Island, New York. The subject property is located in a commercial neighborhood, the site is bordered on the north by the Long Island Expressway, to the south and west of the site are commercial buildings and to the east is vacant undeveloped land. Brookhaven National Laboratory (BNL) is located less than one-eighth (1/8) of a mile to the north (upgradient) of the subject property. There has been documented contamination of the groundwater in the vicinity of the subject site with 1,1,1-trichloroethane (TCA) and dichloroethane (DCA). The chemicals known to be present at the site are presented in Table 1 and 2.

TABLE 1

**Compounds Detected In Groundwater Samples
With Threshold Limit Values**

CONTAMINANT	SHORT TERM EXPOSURE LIMIT (STEL) 15 MINUTES	TIME WEIGHTED AVERAGE EXPOSURE LIMIT 8 HOUR
Trichloroethane (TCA)	450 ppm	50 ppm
Dichloroethane (DCA)	100 ppm	100 ppm

4.0 TASK/OPERATION HEALTH AND SAFETY ANALYSIS

This section will present health and safety analysis for the soil sampling tasks.

4.1 Soil Sampling Safety Analysis

Sampling of soil will be performed by Kempey Engineering or GCI personnel using a GeoProbe Drill Rig. During leaching pool sampling, no person will enter the leaching pools or place their head below the level of the manholes. The depth to groundwater is estimated to be forty-five (45) feet below grade at the site. Kempey Engineering or GCI personnel will be present to observe the drilling and the health and safety operations. In general, Kempey Engineering or GCI will employ one (1) to two (2) persons at the site. No drilling or other site operations will be conducted by contractors without the presence of a Kempey Engineering or GCI representative on site. In the event that the HSO is not present on the site, the Assistant HSO will implement the HASP.

Based on the site history it has been determined that known potential chemical concerns consist of volatile organic compounds (VOCs) and metals in the soil and groundwater at site.

Organic vapor concentrations (OVC) will be monitored in the work zone by utilizing a HNU Photoionization Detector (PID). The PID will be "zeroed" by exposing the PID to a canister of hydrocarbon-free air (<0.1 parts million (ppm) hydrocarbons). Background organic vapor concentrations (OVC) will then be established in the work zone prior to drilling and recorded in the HSO field book.

Upon commencement of drilling, PID readings will be obtained in the workers' breathing zone. A PID reading will also be taken at the borehole approximately every ten (10) minutes thereafter. At the discretion of the HSO, PID readings may be obtained more frequently. All readings and observations will be recorded in the HSO field book. PID air monitoring will be conducted by Kempey Engineering or GCI personnel.

Steady-state PID readings greater than five (5) ppm in the worker's breathing zone will require upgrading to Level "C" personal protective equipment. Steady-state readings, for this purpose, will be defined as readings exceeding five (5) ppm above background for a minimum of ten (10) seconds. Readings will be obtained at points approximately one (1) foot above and then around the borehole. These points will define the worker's breathing zone.

Upon encountering PID levels greater than five (5) ppm above background in the worker's breathing zone, all personnel will be evacuated from the work zone in the upwind direction (if applicable). Specific evacuation routes will be discussed prior to commencement of work at each location based on work location and wind direction. In addition, an evacuation meeting place will be determined. Level "C" personal protection will be implemented including full-face air-purifying respirators with dust and organic vapor cartridges (personal protective equipment will be described in greater detail in Section 7.0). All Kempey Engineering or GCI personnel and contractors must be properly trained and fit tested prior to donning respirators. If, at any time, PID readings exceed steady-state levels greater than fifty (50) ppm above background, or any conditions exist which the HSO determines will require Level "B" personal protective equipment, all work at the site will cease immediately and all personnel will evacuate the work zone. Evacuation will occur in the upwind direction if discernable. Level "B" conditions are not anticipated to be encountered; however, if Level "B" conditions arise, no site work will be performed by Kempey Engineering, GCI or contractors and a complete evaluation of the operation will be performed and this HASP will be modified.

All drilling personnel will be required to wear chemical-resistant gloves (such as butyl or nitrile) when the potential for dermal contact with the soil samples is possible. Dermal contact with soils removed from the ground by the GeoProbe operations will be avoided.

4.2 Other Safety Considerations

4.2.1 Noise

During GeoProbe operations, operation of generators, or any other operation which may generate potentially harmful levels of noise, the HSO will monitor noise levels with a hand-held sound level meter. Noise levels will be monitored in decibels (dB) in the A-weighted, slow-response mode. Noise level readings which exceed the twenty-nine (29) CFR 1920.95 permissible noise exposure limits will require hearing protection (see Table 2 for permissible noise exposures).

Hearing protection will be available to all site workers and will be required for exceedance of noise exposure limits. The hearing protection will consist of foam, expansion-fit earplugs (or other approvable hearing protection) with an Environmental Protection Agency (EPA) noise reduction rating of at least twenty-nine (29) dB. Hearing protection must alleviate worker exposure to noise to an eight (8) hour time-weighted average of eighty-five (85) dB or below. In the event that the hearing protection is inadequate, work will cease until a higher level of hearing protection can be incorporated.

TABLE 2

Permissible Noise Exposures*

Duration Per Day (Hours)	Sound Level dBA Slow Response
8	90
6	92
4	95
3	97
2	100
1½	102
1	105
½	110
¼ or less	115

Note: When the daily noise exposure is composed of two (2) or more periods of noise exposure of different levels, their combined effect should be considered, rather than the individual effect of each. If the sum of the following fractions: $C_1/T_1 + C_2/T_2 + \dots + C_n/T_n$ exceeds unity, then, the mixed exposure should be considered to exceed the limit value. C_n indicates the total time of exposure at a specified noise level, and T_n indicates the total time of exposure permitted at that level.

Exposure to impulsive or impact noise should not exceed 140 dB peak sound pressure level.

* Standards derived from 29 CFR 1910.95

4.2.2. Slip/Trip/Fall Preventative Measures

To reduce the potential for slipping, tripping, or falling, the work zone will be kept clear of unnecessary equipment. All site workers will be required to wear work boots with adequate tread to reduce the potential for slipping (work boots must be leather or chemical-resistant and contain steel toes and steel shanks).

4.2.3 Insects and Ticks

Insect and tick problems are expected to be minimal. Potential insect problems include, but are not limited to, bees, wasps, and hornets. Prior to commencement of work, each work area will be surveyed for nests and hives to reduce the possibility of disturbing these insects. In addition, each site worker will be asked to disclose any allergies related to insect stings or bites. The worker will be requested to keep his or her anti-allergy medicine on site.

Tick species native to Long Island consist of the pinhead-sized deer tick and the much larger dog tick. All site workers will be advised to avoid walking through tall grassy areas where possible and will be advised to check for ticks on clothing periodically.

4.2.4 Heat/Cold Stress

Heat stress may become a concern especially if protective clothing is donned which will decrease natural ventilation. To assist in reducing heat stress the following measures will be taken:

- An adequate supply of water or other liquids will be brought on site. To prevent dehydration, personnel will be encouraged to drink generous amounts of water even if not thirsty.
- A shady rest area will be designated (such as beneath the trees in the northeast corner of the property) to provide shelter during sunny days).
- In hot weather, workers wearing protective clothing may be rotated. When the temperature is over seventy (70) degrees Fahrenheit and personnel are wearing protective clothing, heat stress monitoring may be implemented as follows:

- Heart rate may be measured by counting the radial pulse for thirty (30) seconds at the beginning of the rest period. The heart rate should not exceed 110 beats per minute. If the rate is higher, the next work period will be shortened by ten (10) minutes (or 33%). If the pulse rate is 100 beats per minute at the beginning of the next rest period, the following work cycle will be shortened by 33%. The HSO will decide on the length of work periods and rest periods based on site conditions.
- Body temperature may be measured, if deemed necessary, at the beginning of the rest period. Oral temperature should not exceed ninety-nine (99) degrees Fahrenheit. If it does, the next work period will be shortened by ten (10) minutes (or 33%). However, if the oral temperature exceeds 99.7 degrees Fahrenheit at the beginning of the next period, the following work cycle will be further shortened by 33%. Work will not re-commence until by temperature has dropped below ninety-nine (99) degrees Fahrenheit.

Indications of heat stress range from mild (fatigue, irritability, anxiety, decreased concentration, dexterity or movement) to fatal. Medical help will be obtained for serious conditions.

Heat related problems are:

Heat Rash

Caused by continuous exposure to heat and humid air and aggravated by chafing cloths. Decreases ability to tolerate heat as well as being a nuisance.

Heat Cramps

Caused by profuse perspiration with inadequate fluid intake and chemical replacement (especially salts). Signs: muscle spasm and pain in the extremities and abdomen.

Heat Exhaustion

Caused by increased stress on various organs to meet increased demands to cool the body. Signs: shallow breathing; pale, cool, moist skin; profuse sweating; dizziness and lassitude.

Heat Stroke

The most severe form of heat stress. Can be fatal. Medical help must be obtained immediately. Body must be cooled immediately to prevent severe injury and/or death. Signs: red, hot, dry skin; no perspiration; nausea; dizziness and confusion; strong, rapid pulse; coma.

Cold exposure is a concern if work is conducted during cold weather or marginally cold weather during precipitation periods or moderate to high wind velocity periods. To assist in reducing cold exposure the following measure will be taken:

- All personnel will be required to wear adequate and appropriate clothing. This will include head gear to prevent the high percentage loss of heat that occurs in this area (thermal liners for hard hats if hard hats are required).
- Provide a readily available warm shelter near each work zone.
- Carefully schedule work and rest periods to account for the current temperature and wind velocity conditions.
- Monitor work patterns and physical condition of workers and rotate personnel, as necessary.

Indications of cold exposure range from shivering, dizziness, numbness, confusion, weakness, impaired judgement, impaired vision to drowsiness. Medical help will be obtained for serious conditions if they occur.

Cold exposure related problems are:

Frost Bite

Ice crystal formation in body tissues. The restricted blood flow to the injured part results in local tissue destruction.

Hypothermia

Severe exposure to cold temperature resulting in the body losing heat at a rate faster than the body can generate heat.

The stages of hypothermia are shivering, apathy, loss of consciousness, decreasing pulse rate and breathing rate and death.

4.2.5 Potential Electrical Hazards

Potential electrical hazards consist mainly underground power lines. Underground potential electrical hazards will be minimized by having a utility markout performed for the site. In addition, available as-built site blueprints will be used to avoid contact with subsurface utility lines or structures. As a final precaution, prior to drilling at any location, post-hole digging or hand auguring will be performed by the drillers to a depth of three (3) to four (4) feet to check for the existence of subsurface utility lines or structures.

4.2.6 The Buddy System

All activities in contaminated or potentially contaminated areas will be conducted by pairing off the site workers in groups of two (2) (or three (3) if necessary). Each person (buddy) will be able to:

- Provide his or her partner with assistance.
- Observe his or her partner for signs of chemical or heat exposure.
- Periodically check the integrity of his or her partner's protective clothing.
- Notify the HSO or others if emergency help is needed.

The buddy system will be instituted at the beginning of each work day. If new workers arrive on site, a buddy will be chosen prior to the new worker entering the work zone.

4.2.7 Site Communications

Two (2) sets of communication systems will be established at the site: internal communication among personnel on-site, and external communication between on-site and off-site personnel.

Internal communication will be used to :

- Alert team members to emergencies.
- Pass along safety information such as heat stress check, protective clothing check, etc.
- Communicate changes in the work to be accomplished.
- Maintain site control.

Due to ambient noise, verbal communications may be difficult at times. The HSO will carry a whistle (and compressed air horn if respirators are donned) to signal site workers. A single whistle blast will be the signal to immediately evacuate the work zone through the access control point. This signal will be discussed with all site workers prior to commencement of work.

An external communication system between on-site and off-site personnel will be established to :

- Coordinate emergency response
- Report to the Project Manager
- Maintain contact with essential off-site personnel

A field telephone will be available at all times in the HSO's vehicle. In addition, the nearest stationary phone will be identified prior to the commencement of site operations and this location will be relayed to all site workers.

4.2.8 General Safe Work Practices

- No smoking, eating, drinking, or application of cosmetics in the work zone.
- No matches or lighters in the work zone.
- All site workers will enter/exit work zone through the site access point.
- Any signs of contamination, radioactivity, explosivity, or unusual condition such as dead animals will require evacuating the site immediately and reporting the information to the HSO.
- Loose fitting clothing or loose long hair will be prohibited in the work zone during drilling operations.
- A signal person will direct the backing of work vehicles.
- Equipment operators will be instructed to check equipment for abnormalities such as oozing liquids, frayed cables, unusual odors, etc.

5.0 PERSONNEL TRAINING REQUIREMENTS

All Kempey Engineering or GCI personnel and contractor personnel will receive adequate training prior to entering the site. Kempey Engineering or GCI and contractor's personnel will, at a minimum, have completed OSHA approved, forty (40) hour hazardous materials site safety training and OSHA approved, eight (8) hour safety refresher course within one (1) year prior to commencing field work. The HSO will have received the OSHA approved, eight (8) hour course on managing hazardous waste operations. In addition, each worker must have a minimum of three (3) days field experience under the direct supervision of a trained, experienced supervisor.

Prior to site field work, the HSO will conduct an in-house review of the project with respect to health and safety with all Kempey Engineering or GCI personnel who will be involved with field work at the site. The review will include discussions of signs and symptoms of chemical exposure and heat stress that indicate potential medical emergencies presented in Table 3. In addition, review of personal protective equipment will be conducted to include the proper use of air-purifying respirators.

TABLE 3

**Signs & Symptoms of Exposure to Chemicals
Detected at the Subject Site**

TYPE OF HAZARD	SIGNS AND SYMPTOMS
Chemical Hazard	Behavioral changes
	Breathing difficulties
	Changes in complexion of skin color
	Confusion
	Coordination difficulties
	Coughing
	Depression
	Dermatitis
	Dilated Pupils
	Dizziness
	Euphoria
	Fatigue and/or weakness
	Flushed face and/or neck
	Insomnia
	Irregular heartbeat
	Irritability
	Irritation of eyes, nose, respiratory tract, skin or throat
	Headache
	Lacrimation
	Light-headedness
Muscle fatigue	
Nausea	
Nervousness	
Numbness in limbs	

TYPE OF HAZARD	SIGNS AND SYMPTOMS
Chemical Hazard	Paresthesia
	Sleepiness
	Tingling
	Tremors
	Vertigo
	Visual disturbance
	Vomiting
Heat Exhaustion	Clammy skin
	Confusion
	Dizziness
	Fainting
	Fatigue
	Heat rash
	Light-headedness
	Nausea
	Profuse sweating
	Slurred speech
	Weak pulse
Heat Stroke (may be fatal)	Confusion
	Convulsions
	Hot skin, high temperature (yet may feel chilled)
	Incoherent speech
	Staggering gait
	Sweating stops (yet residual sweat may be present)
	Unconsciousness

6.0 MEDICAL SURVEILLANCE PROGRAM

All workers at the site must participate in a medical surveillance program in accordance with 29 CFR 1910.120. A medical examination and consultation must have been performed within the last twelve (12) months to be eligible for field work.

The content of the examination and consultation will include a medical and work history with special emphasis on symptoms related to the handling of hazardous substances, health hazards, and fitness for duty including the ability to wear required personal protective equipment under conditions (i.e., temperature extremes) that may be expected at the work site.

All the medical examinations and procedures shall be performed by, or under the supervision of, a licensed physician.

The physician shall furnish a written opinion containing:

- The results of the medical examination and tests.
- The physician opinion as to whether the employee has any detected medical conditions which would place the worker at increased risk of material impairment of the employee's health from work in hazardous waste operations.
- The physician's recommended limitations upon the worker assigned to the work.
- A statement that the worker has been informed by the physician of the results of the medical examination and any further examination or treatment.

An accurate record of the medical surveillance will be retained. The record will consist of at least the following information:

- The name and social security number of the employee.
- Physicians written opinions, recommended limitations, and results of examinations and tests.
- Any worker medical complaints related to exposure to hazardous substances.

These medical records will be kept on file for a duration of thirty (30) years after the project is completed. EPA will be given ninety (90) days notification prior to destroying the records.

7.0 PERSONAL PROTECTIVE EQUIPMENT

7.1 General Considerations

The two (2) basic objectives of the personal protective equipment (PPE) are to protect the wearer from safety and health hazards, and to prevent the wearer from incorrect use and/or malfunction of the PPE.

Potential site hazards have been discussed previously in Section 4.0. The duration of site activities is estimated to be three (3) to five (5) days. All work is expected to be performed during daylight hours and workdays, in general, are expected to be eight (8) to ten (10) hours in duration. Any work performed beyond daylight hours will require the permission of the HSO. This decision will be based on the adequacy of artificial illumination and the type and necessity of the task being performed.

Personal protection levels for the site activities, based on past investigations, are anticipated to be Level "D" with the possibility of upgrading to Level "C". The equipment included for each level of protection is provided as follows:

Level "C" Protection

Personnel protective equipment:

- Air-purifying respirator, full-face.
 - Chemical-resistant clothing includes: Tyvek (spunbonded olefin fibers) for particulate and limited splash protection or Saranex (plastic film-laminated Tyvek) for permeation resistance to solvents.
 - Coveralls*, or
 - Long cotton underwear.*
 - Gloves (outer), chemical-resistant.
 - Gloves (inner), chemical-resistant.
 - Boots (outer), leather or chemical-resistant, steel toe and shank.
 - Boot covers (outer), chemical-resistant (disposable)*.
 - Hard hat (face shield)*.
 - Escape mask*.
 - Two-way radio communications (inherently safe)*.
- (*) Optional

Criteria for Selection of Level "C" Protection

Meeting all of these criteria permits use of Level "C" Protection:

- Oxygen concentrations are not less than 19.5% by volume.
- Measured air concentrations of identified substances will be reduced by the respirator below the substance's threshold limit value (TLV).
- Atmospheric contaminants, liquid splashes, or other direct contact will not adversely affect any body area left unprotected by chemical-resistant clothing.
- Job functions do not require self-contained breathing apparatus.
- Direct readings are below fifty (50) ppm on the OVA.

Level "D" Protection

Personnel protective equipment:

- Coveralls
- Gloves*
- Boots/shoes, leather or chemical-resistant, steel toe and shank
- Safety glasses or chemical splash goggles*
- Hard hat (face shield*)
- Escape mask*
- (*) Optional

Criteria for Selection for Level "D" Protection

Meeting any of these criteria allows use of Level "D" Protection:

- No contaminant levels above five (5) ppm organic vapors or dusty conditions are present.
- Work functions preclude splashes, immersion, or the reasonable potential for unexpected inhalation of any chemicals above the TLV.

Additional Considerations for Selecting Levels of Protection

Another factor which will be considered in selecting the appropriate level of protection is heat and physical stress. The use of protective clothing and respirators increases physical stress, in particular, heat stress on the wearer. Chemical protective clothing greatly reduces natural ventilation and diminishes the body's ability to regulate its temperature. Even in moderate ambient temperatures, the diminished capacity of the body to dissipate heat can result in one or more heat-related problems.

All chemical protective garments can be a contributing factor to heat stress. Greater susceptibility to heat stress occurs when protective clothing requires the use of a tightly fitted hood against the respirator face piece, or when gloves or boots are taped to the suit. As more body area is covered, less cooling takes place, increasing the probability of heat stress.

Wearing protective equipment also increases the risk of accidents. It is heavy, cumbersome, decreases dexterity, agility, interferes with vision, and is fatiguing to wear. These factors all increase physical stress and the potential for accidents. In particular, the necessity of selecting a level of protection will be balanced against the increased probability of heat stress and accidents.

7.2 Donning and Doffing Ensembles

Donning an Ensemble

A routine will be established and practiced periodically for donning a Level "C" ensemble. Assistance may be provided for donning and doffing since these operations are difficult to perform alone.

Table 4 lists sample procedures for donning a Level "C" ensemble. These procedures should be modified depending on the particular type of suit and/or when extra gloves and/or boots are used.

Doffing an Ensemble

Exact procedures for removing Level "C" ensembles must be established and followed to prevent contaminant migration from the work area and transfer of contaminants to the wearer's body, the doffing assistant, and others.

Doffing procedures are provided in Table 5. These procedures should be performed only after decontamination of the suited worker. They require a suitably attired assistant. Throughout the procedures, both worker and assistant should avoid any direct contact with the outside surface of the suit.

TABLE 4

Sample Donning Procedures

1. Inspect the clothing and respiratory equipment before donning (see Inspection in subsection 7.4).
2. Adjust hard hat or headpiece if worn, to fit user's head.
3. Standing or sitting, step into the legs of the suit; ensure proper placement of the feet within the suit; then gather the suit around the waist.
4. Put on chemical-resistant safety boots over the feet of the suit. Tape the leg cuff over the tops of the boots.
5. Don the respirator and adjust it to be secure, but comfortable.
6. Perform negative and positive respirator facepiece seal test procedures:
 - To conduct a negative-pressure test, close the inlet part with the palm of the hand or squeeze the breathing tube so it does not pass air, and gently inhale for about ten (10 seconds. Any inward rushing of air indicates a poor fit. Note the a leaking facepiece may be drawn tightly to the face to form a good seal, giving a false indication of adequate fit.
 - To conduct a positive-pressure test, gently exhale while covering the exhalation valve to ensure that a positive pressure can be built up. Failure to build a positive pressure indicates a poor fit.
7. Depending on type of suit:
 - Put on inner gloves (surgical gloves).
 - Additional overgloves, worn over attached suit gloves, may be donned later.
8. Put on hard hat.
9. Have assistant observe the wearer for a period of time to ensure that the wearer is comfortable, psychologically stable, and that the equipment is functioning properly.

TABLE 5

Doffing Procedures

1. Remove any extraneous or disposable clothing, boot covers, outer gloves, and tape.
2. Remove respirator by loosening straps and pulling straps over the top of the head and move mask away from head. Do not pull mask over the top of the head.
3. Remove arms, one at a time, from suit, avoiding any contact between the outside surface of the suit and wearer's body and lay the suit out flat behind the wearer. Leave internal gloves on, if any.
4. Sitting, if possible, remove both legs from the suit.
5. After suit is removed, remove internal gloves by rolling them off the hand, inside out.

7.3 Respirator Fit Testing

The fit or integrity of the facepiece-to-face seal of a respirator affects its performance. Most facepieces fit only a certain percentage of the population; thus each facepiece must be tested on the potential wearer in order to ensure a tight seal. Facial features such as scars, hollow temples, very prominent cheekbones, deep skin creases, dentures or missing teeth, and the chewing of gum and tobacco may interfere with the respirator-to-face seal. A respirator shall not be worn when such conditions prevent a good seal. The worker's diligence in observing these factors shall be evaluated by periodic checks. Fit testing will comply with 29 CFR 1910.1025 regulations.

7.4 Inspection

The PPE inspection program will entail five (5) different inspection:

- Inspection and operational testing of equipment received from the factory or distributor.
- Inspection of equipment as it is issued to workers.
- Inspection after use.
- Periodic inspection of stored equipment.
- Periodic inspection when a question arises concerning the appropriateness of the selected equipment, or when problems with similar equipment arise.

The inspection checklist is provided in Table 6. Records will be kept of all inspection procedures. Individual identification numbers will be assigned to all reusable pieces of equipment and records should be maintained by that number. At a minimum, each inspection should record the ID number, date, inspector, and any unusual conditions or findings. Periodic review of these records may indicate an item or type of item with excessive maintenance costs or a particularly high level of down-time.

TABLE 6

PPE Inspection Checklist

CLOTHING

Before use:

- Determine that the clothing material is correct for the specified task at hand.
- Visually inspect for:
 - Imperfect seams
 - non-uniform coatings
 - Tears
 - Malfunctioning closures
- Hold up to light and check for pinholes.
- Flex product:
 - Observe for cracks
 - Observe for other signs of shelf deterioration
- If the product has been used previously, inspect inside and out for signs of chemical attack:
 - Discoloration
 - Swelling
 - Stiffness

During the work task, periodically inspect for:

- Evidence of chemical attack such as discoloration, swelling, stiffening, and softening. Keep in mind, however, that chemical permeation can occur without any visible effects.
- Closure failure
- Tears
- Punctures
- Seam discontinuities

7.5 Storage

Clothing and respirators will be stored properly to prevent damage or malfunction due to exposure to dust, moisture, sunlight, damaging chemicals, extreme temperatures, and impact. Storage procedures are as follows:

Clothing:

- Potentially contaminated clothing will be stored in an area separate from street clothing.
- Potentially contaminated clothing will be stored in a well-ventilated area, with good air flow around each item, if possible.
- Different types and material of clothing and gloves will be stored separately to prevent issuing the wrong material by mistake.
- Protective clothing will be folded or hung in accordance with manufacturer's recommendations.

Respirators:

- Air-purifying respirators should be dismantled, washed, and placed in sealed plastic bags.

7.6 Maintenance

Specialized maintenance will be performed only by the factory or an authorized repair person. Routine maintenance, such as cleaning, will be performed by the personnel to which the equipment is assigned. Respirators will be cleaned at the end of each day with alcohol pads or, preferably, by washing with warm soapy water.

7.7 Decontamination Methods

All personnel, clothing, equipment, and samples leaving the contaminated (work zone) area of the site must be decontaminated to remove any harmful chemicals or infectious organisms that may have adhered to them. Decontamination methods either (1) physically remove contaminants, (2) inactivate contaminants by chemical detoxification or disinfection/sterilization, or (3) remove contaminants by a combination of both physical and chemical means. In many cases, gross contamination can be removed by physical means involving dislodging/displacement, rinsing, wiping off, and evaporation. Contaminants that can be removed by physical means include dust, vapors, and volatile liquids. All reusable equipment will be decontaminated by rinsing in a bath of detergent and water (respirators, gloves to be reused). Monitoring equipment will be decontaminated by wiping with paper towels and water.

All used PPE to be discarded will be placed in a fifty-five (55) gallon drum and stored in a secure place at the site while awaiting final disposition.

The effectiveness of the decontamination will be evaluated near the beginning of site activities and will be modified if determined to be ineffective. Visual observation will be used for this purpose. The HSO will inspect decontaminated materials for discoloration, stains, corrosive effects, visible dirt, or other signs of possible residual contamination.

8.0 DECONTAMINATION PROCEDURES FOR SAMPLING AND DRILLING EQUIPMENT

All sampling equipment shall be decontaminated prior to, and following, use at each soil sampling location. Decontamination procedures shall consist of the following:

1. Scrub equipment in a bath of low-phosphate detergent and potable water.
2. Potable water rinse.
3. One percent (1%) nitric acid rinse.
4. Potable water rinse.
5. Methanol followed by hexane rinse.
6. distilled water rinse, air dry.
7. Aluminum foil wrap, shiny side out, for transport.

Personal protective equipment decontamination has been discussed in Section 7.7.

9.0 CALIBRATION PROCEDURES, FREQUENCIES, AND MAINTENANCE

This section will present the calibration procedures, frequencies, and maintenance for the health and safety field monitoring instruments.

The use of the monitoring equipment is presented as follows (the manufacturer's owner's manuals for all equipment used will be present at the site):

1. HNU - this instrument is a photoionization detector (PID) that measures the concentration of airborne ionizable gases and vapors. The HNU does not distinguish between individual compounds and will not read methane. The calibration will be performed with a cylinder of "zero gas" (hydrocarbon free air) to "zero" the instrument and a 100 ppm cylinder of isobutylene to calibrate the span.

The calibration procedures and frequencies for each instrument are presented as follows:

HNU (Photoionization Detector)

Isobutylene at 100 ppm in air will be used as Span Gas. A commercial zero grade gas will be used as the zero gas. To calibrate the instrument, use the Calibration Kit as follows:

1. Connect the supplied regulator to the Span Gas Cylinder. Hand tighten the fittings.
2. Open the valve on the gas bag by turning the valve stem fully counter clockwise.
3. Attach the gas bag adapter nut to the regulator. Hand tighten the fittings.
4. Turn the regulator knob counter clockwise about half turn to start the flow of gas.
5. Fill the gas bag about half full and then close the regulator fully clockwise to turn off the flow of gas.

6. Disconnect the bag from the adapter and empty it. Flush the bag a few times with the Span Gas and then fill it.
7. Close the gas bag by turning the valve clockwise.
8. Press SETUP and select the desired Cal Memory with arrow keys and press ENTER. Press EXIT to leave Setup.
9. Press CAL and expose HNU to Zero Gas. Press ENTER and HNU sets its zero point.
10. HNU then asks for the Span Gas concentration. Enter the Known Span Gas concentration and then connect the Span Gas bag adapter to the inlet.
11. Press ENTER and HNU sets its sensitivity.
12. When HNU's display reverts to normal, HNU is calibrated and ready for use. Remove the Span Gas bag from the inlet.

The instrument will be calibrated prior to the commencement of each day's work. The instrument will be charged overnight prior to each day's work.

10.0 EMERGENCY RESPONSE PLAN

This section will present the Emergency Response Plan (ERP) for the site. Pre-emergency planning will consist of reviewing the ERP with all workers at the site prior to initiation of work.

Personnel Roles

It is anticipated that during the drilling and well installation activities at the site, in general, three (3) persons will be on the site: the HSO, the driller, and the driller's assistant. Should an emergency situation arise at the site, the HSO will assume control and decision-making. The HSO will also resolve all dispute concerning health and safety requirements and precautions. The HSO will also:

- Be authorized to seek and purchase supplies as necessary.
- Have control over activities of everyone entering the site.

The HSO will communicate, by field telephone or other, with off-site personnel to include the Project Manager to evaluate data and assist in the decision-making process. Telephone numbers for the fire department, police ambulance, poison control center, Suffolk County Department of Health Services (SCDHS), and New York State Department of Environmental Conservation (NYS DEC) Spill Response Department (SRD), are listed on the next-to-last page of this document. The hospital which will be utilized during an emergency will be Brookhaven Memorial Hospital. The directions to the hospital, along with the hospital's emergency room telephone number are presented as Appendix A of this document.

Copies of Appendix A of this document will be available at the site and will be placed in all vehicles of personnel involved in activities at the site.

Internal communications will consist of a single whistle (or compressed air horn if Level "C" is donned) blast. This blast will signal all workers to evacuate the work zone by the nearest exit.

Response Follow-Up

Following an emergency, or incident, a detailed report will be generated by the HSO. All equipment will be restored to pre-emergency conditions. The HASP will be reviewed following an emergency to determine if it provides adequate information to assist in dealing with the emergency. The HASP may be revised to incorporate additional information as needed.

Emergency Recognition and Prevention

Before daily work assignments begin, each day a brief on-site meeting will be held by the HSO which will address health and safety issues related to the day's work. Prior to initiation of work, a detailed on-site health and safety meeting will be held to review all potential hazards, contingencies, and safety measures.

Safe Distances and Places of Refuge

The main potential cause of work zone evacuation is a significant vapor release. Vapor release evacuation will be discussed prior to drilling at each site and in general will be in the upwind direction. Wind direction will be monitored at each work location and all workers will be notified of the direction of evacuation prior to commencement of work. Safe distances will be discussed at each location and determined by the HSO. The OVA will be used to determine if workers have evacuated a sufficient distance.

At all times, vehicles which may be utilized in an emergency for transport to the hospital (or other destination) will have clear access to leave the site. The HSO will assure that an emergency vehicle does not become blocked-in by other vehicles.

Site Security and Control

The HSO will control entry of personnel into the work zone. No unnecessary person shall be permitted in the work zone.

Decontamination Procedures During Emergencies

In the event of a medical emergency, decontamination will be performed if it does not interfere with essential treatment. Decontamination will be performed by washing, rinsing, and/or cutting off protective clothing and equipment.

If decontamination cannot be performed, the victim will be wrapped in plastic to reduce contamination to other personnel. Emergency and off-site medical personnel will be alerted to the potential contamination.

Emergency Medical Treatment and First Aid

Medical emergencies will be treated, in general, by medical experts by transporting the victim to the nearby hospital.

A first aid kit will be present on site for minor medical treatment.

APPENDIX A

Emergency Telephone Numbers,

Kempey Engineering and GCI Contact Personnel,

Directions from Precision Avenue to the Hospital

Emergency Telephone Numbers

- Suffolk County Police 911
- Shirley Fire Department (516) 924-5550
- Ambulance (516) 924-5550
- Poison Control Center (516) 542-2323
- Suffolk County Department of Health Services (516) 854-2514
- N.Y.S. Department of Environmental Conservation (DEC) (516) 444-0320
- N.Y.S. DEC Spills Hotline 1-800-457-7362
- Brookhaven Memorial Hospital Emergency (516) 657-7763

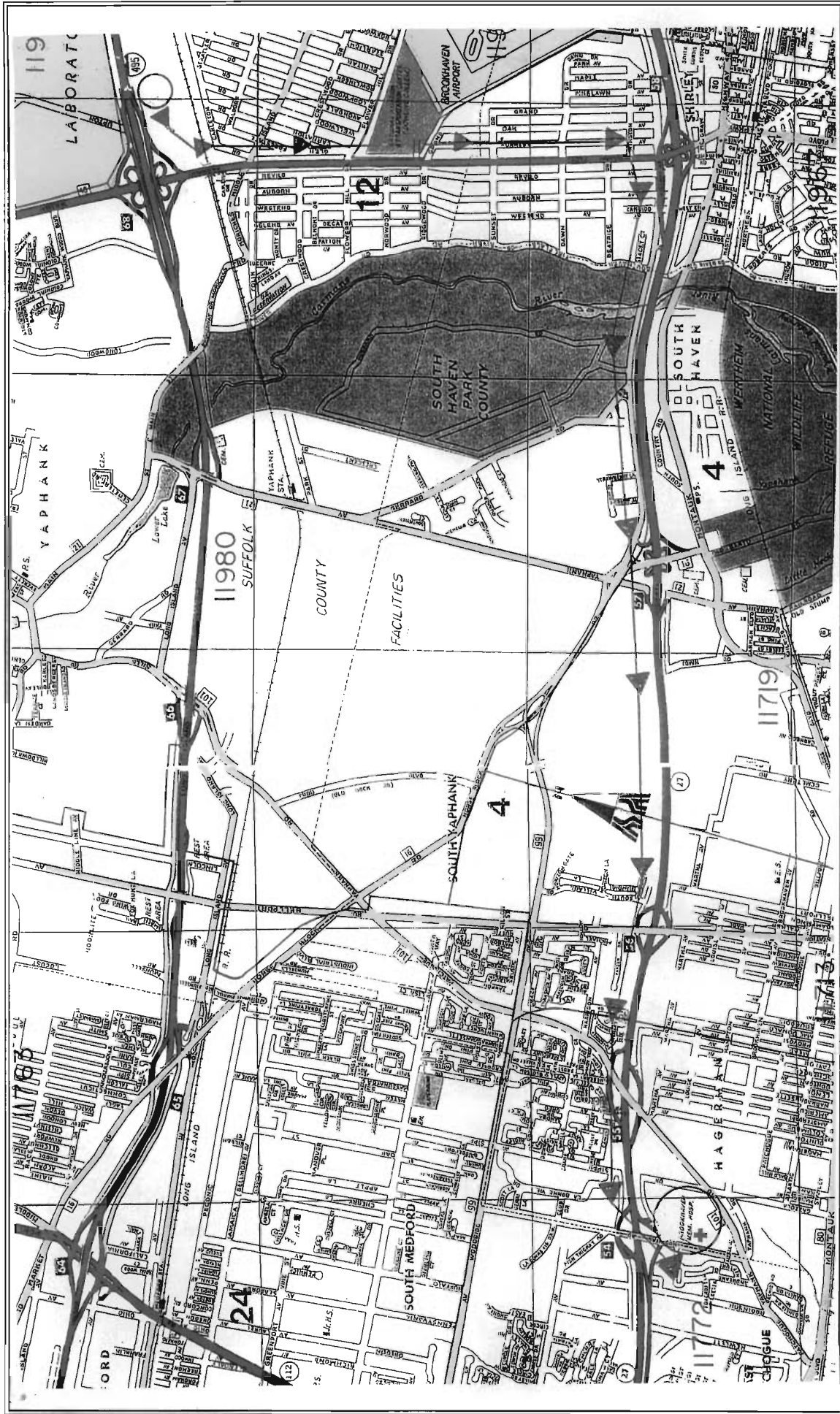
Kempey Engineering and GCI Personnel

- Eugene G. Kempey, P.E. (516) 368-3324
- Matthew Boeckel, Hydrogeologist (516) 694-7878

Directions to Brookhaven Memorial Hospital

- Brookhaven Memorial Hospital 516-657-7763

Take Precision Drive west to William Floyd Parkway. Take William Floyd Parkway South. Take Sunrise Highway West to Hospital Road. Make a left to Hospital Road (south) the Brookhaven Memorial Hospital will be on your left.



DIRECTIONS TO BROOKHAVEN MEMORIAL HOSPITAL

FROM

**26 Precision Drive
Shirley, New York**

APPENDIX F

CITIZEN PARTICIPATION PLAN

**PRECISION CONCEPTS
26 PRECISION DRIVE
SHIRLEY, NEW YORK 11967**

NYSDEC IHWDS No. 1-52-158

Prepared for:

**New York State
Department of Environmental Conservation (NYSDEC)
50 Wolf Road
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SEPTEMBER 1998

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1.0 INTRODUCTION

The following Citizen Participation Plan (CPP) sets forth a program that provides guidance for site specific citizen participation. Kempey Engineering and GCI Inc. have been retained by Precision Concepts to undertake the development and implementation of the CPP for the Precision Concepts facility located at 26 Precision Drive, Shirley, Town of Brookhaven, Suffolk County, Long Island, New York.

The New York State Department of Environmental Conservation (NYSDEC) requires that a Citizen Participation Plan be prepared as part of the Precision Concepts Inactive Hazardous Waste Disposal Site Focused Remedial Investigation Work Plan. Citizen participation promotes public understanding of the project, responsibilities, planning activities, and remedial activities at inactive hazardous waste disposal sites. It provides an opportunity for the involved and concerned parties to learn from the public information that will enable them to develop a comprehensive remedial program which is protective of both public health and the environment.

The RI/FS Work plan was developed in accordance with the Comprehensive Environmental Response, Compensation, and Liability Act of 1980 (CERCLA), the Superfund Amendments and Reauthorization Act (SARA), the Environmental Protection Agency's (EPA) document titled "Guidance for Conducting Remedial Investigations and Feasibility Studies under CERCLA", and the National Contingency Plan (NCP).

The RI/FS Work Plan presents a technical scope of work for conducting the proposed field activities and investigation, as well as preparation of the Remedial Investigation (RI) and Feasibility Study (FS) reports. The RI/FS will be conducted using a phased approach in accordance with CERCLA, SARA, and the Environmental Conservation Law (ECL) of New York. The phased approach results in more efficient utilization of resources used in the field investigation, improved data to support the alternative selection, and a shorter overall time frame to select a remedy for the site. Section 3.0 of this report describes the major components and overall objectives of the remedial program.

2.0 BASIC SITE INFORMATION

2.1 Compliance with NYSDEC Remedial Program

Precision Concepts will enter into the Consent On Order with the NYSDEC under Article 27, Title 13 of the Environmental Conservation Law of the State of New York (ECL) entitled "Inactive Hazardous Waste Disposal Sites". The site, listed in the Registry of Inactive Hazardous Waste Disposal Sites in New York State as Site Number 1-52-158 has been classified by the NYSDEC as a "2." The NYSDEC maintains that the site is an inactive hazardous waste disposal site and presents a threat to public health and the environment (NYSDEC Classification "2"). The NYSDEC assigns a ranking of 1, 2, 2a, 3, 4 or 5. A site classified as "1" is the most hazardous. A "5" classification is for a site that has been properly closed and no further action is required. A full explanation of each NYSDEC classification is contained in Section 8.2.

2.0 BASIC SITE INFORMATION

2.1 Compliance with NYSDEC Remedial Program

Mr. Vince Marino will enter into the Consent On Order with the NYSDEC under Article 27, Title 13 of the Environmental Conservation Law of the State of New York (ECL) entitled "Inactive Hazardous Waste Disposal Sites". The site, listed in the Registry of Inactive Hazardous Waste Disposal Sites in New York State as Site Number 1-52-158 has been classified by the NYSDEC as a "2." The NYSDEC maintains that the site is an inactive hazardous waste disposal site and presents a threat to public health and the environment (NYSDEC Classification "2"). The NYSDEC assigns a ranking of 1, 2, 2a, 3, 4 or 5. A site classified as "1" is the most hazardous. A "5" classification is for a site that has been properly closed and no further action is required. A full explanation of each NYSDEC classification is contained in Section 8.2.

3.0 PROJECT DESCRIPTION

3.1 Site History

The subject site is located at 26 Precision Drive, which is approximately 1,343 feet east of William Floyd Parkway, Town of Brookhaven, Suffolk County, Long Island, New York. The subject property is located in a moderately developed commercial neighborhood. The subject site is an irregular shaped parcel, with approximately 1,355 feet of frontage along the north side of Precision Drive. The property is approximately 900 feet deep. The total subject parcel is approximately 636,000 square feet or 15.9 acres. The building itself occupies approximately 6% of the subject site. The majority of the site is undeveloped and is covered with natural vegetation, the remainder of the property is developed as paved parking areas and driveways for the facility.

The Town of Brookhaven Building Department records indicated that the subject building was erected circa 1985. The site was vacant undeveloped land prior to 1985. The subject building is constructed of concrete block with brick veneer. The building rests on a poured concrete slab foundation. Windows are comprised primarily of bronze plate glass in aluminum frames. The building space consists of office areas along the north end, reception/waiting area, conference room, lunch room, storage rooms, a research and development lab, office areas, bathrooms (office and warehouse), loading area and three warehouse/storage areas along the south end. The office section and primary entrance to the building is accessible from the north and west sides. Four (4) overhead bay doors access the warehouse/storage areas from the south side. All office areas are finished with carpeted floors, sheetrock walls and suspended acoustic ceilings. All manufacturing/storage areas remain unfinished with poured concrete floors, concrete walls and steel corrugated ceilings/roof deck. The heat for the site is provided to the warehouse areas of the building via gas and electric fired, ceiling mounted forced hot air systems. All other areas including offices and research and development areas are heated via a gas fired, WEIL McLAIN boiler/circulating hot water baseboard system. The primary roof of the building was observed to be a flat/terraced type.

The site utilizes an on-site sanitary system, which is located on the west side of the subject building. The septic system, consists of a primary septic tank and three overflow pools. There are seven (7) storm water collection drywells located throughout the paved parking areas of the subject site. There are two (2) leaching pools located on the east side of the subject building.

It was reported that the eastern leaching pools formerly received discharge of non-contact cooling water from the interior operations conducted by Precision Concepts. There are three (3) buried roof drainage drywells located on the north side of the subject building, as well as two (2) roof drainage drywells on the south side of the subject building.

The property has been occupied for industrial and warehouse use since originally constructed. The site was originally occupied by Precision Concepts. The operations conducted at Precision Concepts entailed the manufacturing of metal fixtures for use by the electronics industry. Precision Concepts operated its business from 1985 to 1993. There are currently no storage tanks utilized at the subject site. There were records that the previous operations conducted by Precision Concepts entailed the use of storage tanks. The SCDHS records indicated that one (1) - 6,000 gallon industrial waste aboveground storage tank (AST), one (1) - 400 gallon organic solvent AST and 1,875 gallon drum storage area were present at the site during the time that Precision Concepts occupied the site. The records further stated that the two (2) ASTs and the drum storage area were removed in July 1993.

In May 1988, the Suffolk County Department of Health Services (SCDHS) sampled a leaching pool located on the east side of the subject building. The analytical results indicated that 1,1,1-trichloroethane (TCA) was present in the sample at a concentration of 1,200 parts per billion (ppb). No remedial action was undertaken by the SCDHS at this time. In addition, the SCDHS re-sampled the leaching pool in May 1990 and found no organic contamination. Subsequent studies conducted by the SCDHS in the area of the subject property indicated that a contamination plume of organic solvents was emanating from the subject site. Although, no testing of soil or groundwater was conducted directly on the subject property.

The site is currently occupied by Luitpold Pharmaceutical, which is a distributor of pharmaceutical products. The site is utilized for general office and warehouse purposes as well as some small scale bench testing which entails the use of hazardous materials. The current operations do not pose an apparent environmental threat to the subject site.

3.2 Data Evaluation (RI Stage)

Upon completion of field activities (i.e., soil sampling) the available site data and information will be used to characterize the site. The evaluation (Remedial Investigation stage) will entail an areal extent determination, a source characterization, geologic and hydrogeologic characterization, and water quality characterization. The characterization studies will identify potential areas of on-site health or environmental concern.

The cleanup of a hazardous waste site is based on criteria established as standards or guidelines. Cleanup criteria are developed by the NYSDEC on a case-by-case basis. The criteria will be based on federal and state promulgated regulations and guidance documents.

The cleanup guidelines developed for this project will be used in conjunction with the site characterization to determine if remedial action is required. The results of the site characterization (e.g., laboratory data, interpretations, findings, etc.) and the cleanup guidelines will be presented in the Remedial Investigation (RI) Report.

3.3 Development of Alternatives (FS Stage)

The purpose of the FS is to determine the most appropriate course of action based upon the results of the site characterization and the cleanup guidelines. The remedial alternative options, which may include source control, migration control, containment, waste removal, or no action, will be presented. The alternatives will be evaluated for various criteria, including protection of human health and the environment; attainment of cleanup guidelines; utilization of permanent solutions and alternative treatment technologies; utilization of treatment to permanently reduce the toxicity, mobility, volume, or extent of contamination; and minimization of costs.

Preliminary screening of the alternatives will eliminate the technologies that fail to attain the aforementioned criteria, are not technically feasible, require significant institutional controls, or are significantly more costly than other alternatives without achieving greater reliability or effectiveness.

The relevant information regarding selected remedial alternatives will be analyzed to facilitate selection of the site remedial action. The specific requirements that will be addressed for each remedial alternative include protectiveness of human health and the environment; reduction of mobility, toxicity, and volume of hazardous contaminants; implementability; and cost effectiveness.

The analysis of each alternative includes a detailed description of the alternative. The description contains a projected length of system operation; bench or pilot scale test results or supporting data from a literature review; and projected short-term and long-term impacts, effectiveness, and performance.

Upon completion of the detailed analysis of the individual alternative, each will be compared to the other using the information collected and factors described above. The effectiveness of the alternatives which achieve the same relative degree of protection of human health and the environment will be compared on the basis of cost. The alternatives which achieve the same relative degree of protection of human health and environment will be favored over those alternatives which attain the same effectiveness at a higher cost.

After all the alternatives are evaluated, a recommendation will be presented in the FS report for the selection of the remedial action alternative for the site. The results, findings, and recommendations of the FS phase will also be presented and discussed in the FS report and during a public meeting. The FS report will document the approach and methodology used to select the recommended remedial action alternative. The results of the detailed evaluation with additional comments from the NYSDEC, the public, and other parties will be reviewed. Based on this review, a remedial action alternative that best achieves the specified criteria will be selected in a Record of Decision (ROD). The selected remedial action will be further developed into an engineering design.

4.0 PUBLIC CONTACT LIST

4.1 Residents in the area of the site

The following are all individuals that may be affected or interested in the proceedings pertinent to the Precision Concepts site. The list will be updated as necessary.

Local residents are considered those who live within the area bounded by Carleton Drive on the south, William Floyd Parkway on the west, Roned Drive on the east and the Long Island Expressway on the north. Land owners who do not reside within the above referenced boundary, are considered to be "residents in the area of the site" in regard to citizen participation.

5.0 IDENTIFICATION OF DEPARTMENT CONTACTS

NYSDEC Project Manager

Michael MacCabe

Division of Environmental Remediation

50 Wolf Road

Albany, New York 12233-7010

516-457-3395

NYSDEC Citizen Participation Specialist

Joshua Epstein

Division of Hazardous Waste Remediation

SUNY - Building 40

Stony Brook, New York 11790-2356

516-444-0249

NYSDEC Attorney

Christine McGrath

Division of Environmental Remediation

50 Wolf Road

Albany, New York 12233-7010

516-457-3???

New York State Department of Health (NYS DOH) Contacts:

Nina Knapp

NYS DOH

Health Liaison Program

2 University Place - Room 240

Albany, NY 12203-3399

Toll Free 1-800-458-1158, Ext. 6402

6.0 IDENTIFICATION OF DOCUMENT REPOSITORIES

Documents related to the remedial activities at the site will be available for public review. There are two (2) repositories. The criteria used to select each repository included that the documents be available after normal working hours and that public access would be as easy as possible.

The repository will have documents that include, but are not limited to, the Order-On-Consent, RI/FS Work Plan, Remedial Investigation (RI) Report, Feasibility Study (FS) Report, Record of Decision (ROD), Remedial Design Document, Quality Assurance Program Plan (QAPP), Health and Safety Plan (HASP), Citizen Participation Plan (CPP), and other pertinent data, information, summaries, and reports.

The designated local document repositories for the report are:

NYSDEC - Region 1
SUNY Campus, Building 40
Stony Brook, NY 11794 (516) 444-0240

Mastics-Moriches-Shirley Community Library
301 William Floyd Parkway
Shirley, NY 11967 (516) 399-1511

The NYSDEC offices are open Monday through Friday from 8:30 a.m. to 4:45 p.m.

The Mastics-Moriches-Shirley Library is open Monday through Thursday, from 10:00 a.m. to 9:00 p.m.; Friday from 10:00 a.m. to 6:00 p.m.; Saturday from 9:00 a.m. to 5:00 p.m.; and Sunday from 12:00 p.m. to 4:00 p.m. from October to May.

7.0 DESCRIPTION OF CITIZEN PARTICIPATION ACTIVITIES

This section describes the specific citizen participation activities that are to be carried out during the implementation of the RI/FS work plan and subsequent submissions.

7.1 Citizen Participation Plan

Upon completion of the Citizen Participation Plan, a copy will be deposited in the designated document repositories (see Section 6.0). In addition to the CPP, previously prepared documents, such as the Phase I report, Phase II report, Consent Order, and Health and Safety Plan (HASp), will be deposited in each repository.

7.2 RI/FS Work Plan

Upon completion of the final draft of the RI/FS Work Plan, a public notice will be distributed to local newspapers to announce the work plan. A fact sheet, which briefly describes the work plan, will be mailed to the parties specified on the public contact list and all area residents. The work plan will be placed in the document repositories. The fact sheet will also list the information and provide the names and telephone numbers for the Department contacts. A meeting will be conducted at the Work Plan stage (prior to the commencement of the RI field operations). The public will be informed of the site history, project objectives, and the purposes of the scheduled field activities at this meeting. The public will be notified at least ten (10) to fourteen (14) days in advance of any meeting. All persons and/or groups specified in the Public Contact List will receive a fact-sheet/meeting notice.

7.3 Remedial Investigation Report

The Draft RI Report will be placed in the document repositories. A public notice will be distributed to local newspapers to announce the Draft RI Report. A fact sheet pertinent to the Draft RI Report will be distributed to the public contact list through direct mailing. Public comments will be solicited to aid in the preparation of the Final RI Report. The Final RI Report will be deposited in the document repositories.

7.4 Feasibility Study Report

The Draft Feasibility Study Report, which details the proposed remedial action plan, will be placed in the document repositories. A public notice will be distributed to local media sources in regard to the location and availability. Public comments will be solicited during a thirty (30) day period to aid in the preparation of the Final FS Report. A public meeting will be held after all field sampling activities have been completed. The RI/FS Report will be presented at this meeting. Another fact sheet, which specifies the results of the Remedial Investigation, potential remedial alternatives, and the justification of any preferred remediation methods, will be formulated and distributed to all interested or affected parties. A meeting transcript will be placed in the document repositories specified in Section 6.0. Following the public comment period, a responsiveness summary will be prepared and distributed to interested parties and placed in the document repositories. The Final FS Report will also be placed in the document repositories.

7.5 Project Fact Sheets

The site history, the project objectives, citizen participation/information methods, remedial alternatives, and notice of any public meeting will be included in an informational fact sheet. Fact sheets will be mailed to all interested or affected parties. All individuals specified in Section 4.0 will receive an informational fact sheet. A separate fact sheet will be prepared and distributed prior to any public meeting.

7.6 Public Informational Meetings

The local community will be informed of all public meetings via public notices in local newspapers and/or informational fact-sheets. The date, time, and location of any public meetings associated with the site will be specified in all notices.

7.7 Record Of Decision

When the final remedial action plan is determined, the NYSDEC will issue a Record Of Decision (ROD). The public will be notified of the ROD through a public notice. A fact sheet or executive summary will be prepared and placed in the repositories and distributed more widely as appropriate. Any additional measures, as called for by the 6 NYCRR Part 375 regulation, will also be implemented.

8.0 GLOSSARY OF KEY TERMS

Below are the definitions of terms used in this report.

8.1 Definitions of Commonly Used Terms

Availability Session: Scheduled gathering of the Department staff and the public in a setting less formal than a public meeting. Encourages one-to-one discussions in which the public meets with Department staff on an individual or small group basis to discuss particular questions or concerns.

Citizen Participation: A process to inform and involve the interested/affected public in the decision-making process during identification, assessment, and remediation of inactive hazardous waste sites. This process helps to assure that the best decisions are made from environmental, human health, economic, social, and political perspectives.

Citizen Participation Plan: A document that describes the site-specific citizen participation activities that will take place to complement the "technical" (remedial) activities. It also provides site background and rationale for the selected citizen participation program for the site. A plan may be updated or altered as public interest or the technical aspects of the program change.

Citizen Participation Specialist: A Department staff member within the Division of Hazardous Waste Remediation, who provides guidance, evaluation, and assistance to help the Project Manager carry out his/her site specific Citizen Participation program.

Contact List: Names, addresses, and/or telephone numbers of individuals, groups, organizations, and media interested and/or affected by a particular hazardous waste site compiled and updated by the Department. Interest in the site, stage of remediation, and other factors guide how comprehensive the list will be. Used to assist the Department to inform and involve the interested/affected public.

Document Repository: Typically, a regional DEC office and/or public building, such as a library, near a particular site, at which documents related to remedial and citizen participation activities at the site are available for public review. Provides access to documents, at times, and is usually situated in a convenient location. Environmental Management Councils (EMCs), Conservation Advisory Committees (CACs), as well as active local groups often can serve as supplemental document repositories.

Information Sheet: A written discussion of a site's remedial process, or some part of it, prepared by the Department for the public in easily understandable language. May be prepared for the general public or a particular segment. Uses may include, for example: discussion of an element of the remedial program, opportunities for public involvement, availability of a report or other information, or announcement of a public meeting. May be mailed to all or part of the interested public, distributed at meetings and availability sessions or sent on an as-requested basis.

Project Manager: A Department staff member within the Division of Hazardous Waste Remediation (usually an engineer, geologist, or hydrogeologist) responsible for the day-to-day administration of activities, and ultimate disposition of, one or more hazardous waste sites. The Project Manager works with the Office of Public Affairs, as well as fiscal and legal staff, to accomplish site related goals and objectives.

Public: The universe of individuals, groups, and organizations:

- a. Affected (or potentially affected) by an inactive hazardous waste site and/or its remedial program
- b. Those interested in the site and/or its remediation
- c. Having information about the site and its history.

Public Meeting: A scheduled gathering of the Department staff and the public to give and receive information, ask questions, and discuss concerns. May take one of the following forms: large-group meeting called by the Department; participation by the Department at a meeting sponsored by another organization such as a town board or Department of Health; working group or workshop; tour of the hazardous waste site.

Public Notice: A written or verbal informational technique for telling people about an important part of a site's remedial program that is scheduled (examples: announcement that the report for the RI/FS is publicly available; a public meeting has been scheduled). The public notice may be formal and satisfies legal requirements (for example: its contents, such as announcing beginning of a public comment period; where, when, and how it is published).

Responsiveness Summary: A formal or informal, written or verbal summary and response by the Department to public questions and comments. Prepared during or after important elements in a site's remedial program. The responsiveness summary may list and respond to each question, or summarize and respond to questions in categories.

8.2 Definitions of Elements and Terms of The Remedial Program

The first eight (8) definitions represent major elements of the remedial process. They are presented to provide a context to aid in their definition.

Consent Order: A legal and enforceable negotiated agreement between the Department and responsible parties where responsible parties agree to undertake investigation and cleanup, or pay for the costs of investigation and cleanup work at a site. The order includes a description of the remedial actions to be undertaken at the site and a schedule for implementation.

Construction: DEC selects contractors and supervises construction work to carry out the designed remedial alternative. Construction may be as straightforward as excavation of contaminated soil with disposal at a permitted hazardous waste facility. On the other hand, it may involve drum sampling and identification, complete encapsulation, leachate collection, storage and treatment, ground water management, or other technologies. Construction costs may vary from several thousand dollars to many millions of dollars, depending on the size of the site, the soil, groundwater, and other conditions, and the nature of the wastes.

Contract: A legal document signed by a contractor and the Department to carry out specific site remediation activities.

Contractor/Consultant: A person or firm hired to furnish materials or performs services, especially in construction projects.

De-listing: Removal of a site from the state Registry based on studies which show that the site does not contain hazardous wastes.

Feasibility Study (FS): A process for development, evaluation, and selection of remedial actions, using data gathered during the remedial investigation to: define the objectives of the remedial program for the site and broadly develop remedial action alternatives; perform an initial screening of these alternatives; and perform a detailed analysis of a limited number of alternatives which remain after the initial screening stage.

Monitoring/Maintenance: Denotes post-closure activities to insure continued effectiveness of the remedial actions. Typical monitoring/maintenance activities include quarterly inspections by an engineering technician; water level measurements in monitoring wells; or collection of ground water and surface water samples and analysis for factors showing the condition of water, presence of toxic substances, or other indicators of possible pollution from the site. Monitoring and maintenance may be required indefinitely at many sites.

Phase I Site Investigation: Preliminary characterizations of hazardous substances present at a site; estimates pathways by which pollutants might be migrating away from the original site of disposal; identifies populations or resources which might be affected by pollutants from a site; observes how the disposal area was used or operated; and gathers information regarding who might be responsible for wastes at a site. Involves a search of records from all agencies known to be involved with a site, and interviews with site owners, employees, and local residents to gather pertinent information about a site. Information gathered is summarized in a Phase I report. After a Phase I investigation, the DEC may choose to initiate an emergency response; to nominate the site for the National Priorities List; or, where additional information is needed, to determine site significance, or to conduct further (Phase II) investigation.

Phase II Site Investigation: Ordered by the DEC when additional information is still needed after completion of Phase I to properly classify the site. A Phase II investigation is not sufficiently detailed to determine the full extent of the contamination, to evaluate remedial alternatives, or to prepare a conceptual design for construction. Information gathered is summarized in a Phase II report and is used to arrive at a final hazard ranking score.

Potentially Responsible Parties: Individuals or companies (e.g., site owners, operators, transporters, or generators of hazardous waste) that are responsible for, or contribute to the contamination problems at a hazardous waste site. A PRP is a potentially responsible party.

Potentially Responsible Party Lead Site: An inactive hazardous waste site at which those legally liable for the site, have accepted responsibility of investigating problems at the site and for developing and implementing the site's remedial program. PRP's include: those who owned the site during the time wastes were placed, current owners, past and present operators of the site, and those who generated the wastes placed at the site. Remedial programs developed and implemented by PRP's generally result from an enforcement action taken by the State and the costs of the remedial program are generally borne by the PRP.

Ranking System: The United States Environmental Protection Agency uses a hazard ranking system (HRS) to assign numerical scores to each inactive hazardous waste site. The scores express the relative risk or danger from the site.

Remedial Design: Once a remedial action has been selected, technical drawings and specifications for remedial construction at a site are developed, as specified in the final RI/FS report. Design documents are used to bid and construct the chosen remedial actions. Remedial design is prepared by consulting engineers with experience in inactive hazardous waste disposal site remedial actions.

Remedial Investigation (RI): A process to determine the nature and extent of contamination by collecting data and analyzing the site. It includes sampling and monitoring, as necessary, and includes the gathering of sufficient information to determine the necessity for, and proposed extent of, a remedial program for the site.

Site Classification: The Department assigns classifications to sites, established by state law, as follows:

- Classification 1 - A site causing or presenting an imminent danger of causing irreversible or irreparable damage to the public health or environment: immediate action required.
- Classification 2 - A site posing a significant threat to the public health or environment: action required.
- Classification 2a - A temporary classification for a site known or suspected to contain hazardous waste. Most likely the site will require a Phase I and Phase II investigation to obtain more information. Based on the results, the site then would be reclassified or removed from the state Registry if found not to contain hazardous wastes.
- Classification 3 - A site that has hazardous waste confirmed, but not a significant threat to the public health or environment: action may be deferred.
- Classification 4 - A site that has been properly closed, requires continued management.
- Classification 5 - A site that has been properly closed, no evidence of present or potential adverse impact: no further action required.

Sites Placed on the Registry of Inactive Hazardous Waste Sites: Each inactive site, known or suspected of containing hazardous waste, must be included in the Registry. Therefore, all sites which state or county environmental or public health agencies identify as known or suspected to have received hazardous waste, should be listed in the Registry as they are identified. Whenever possible, the Department carries out an initial evaluation at the site before listing.

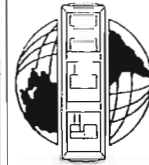
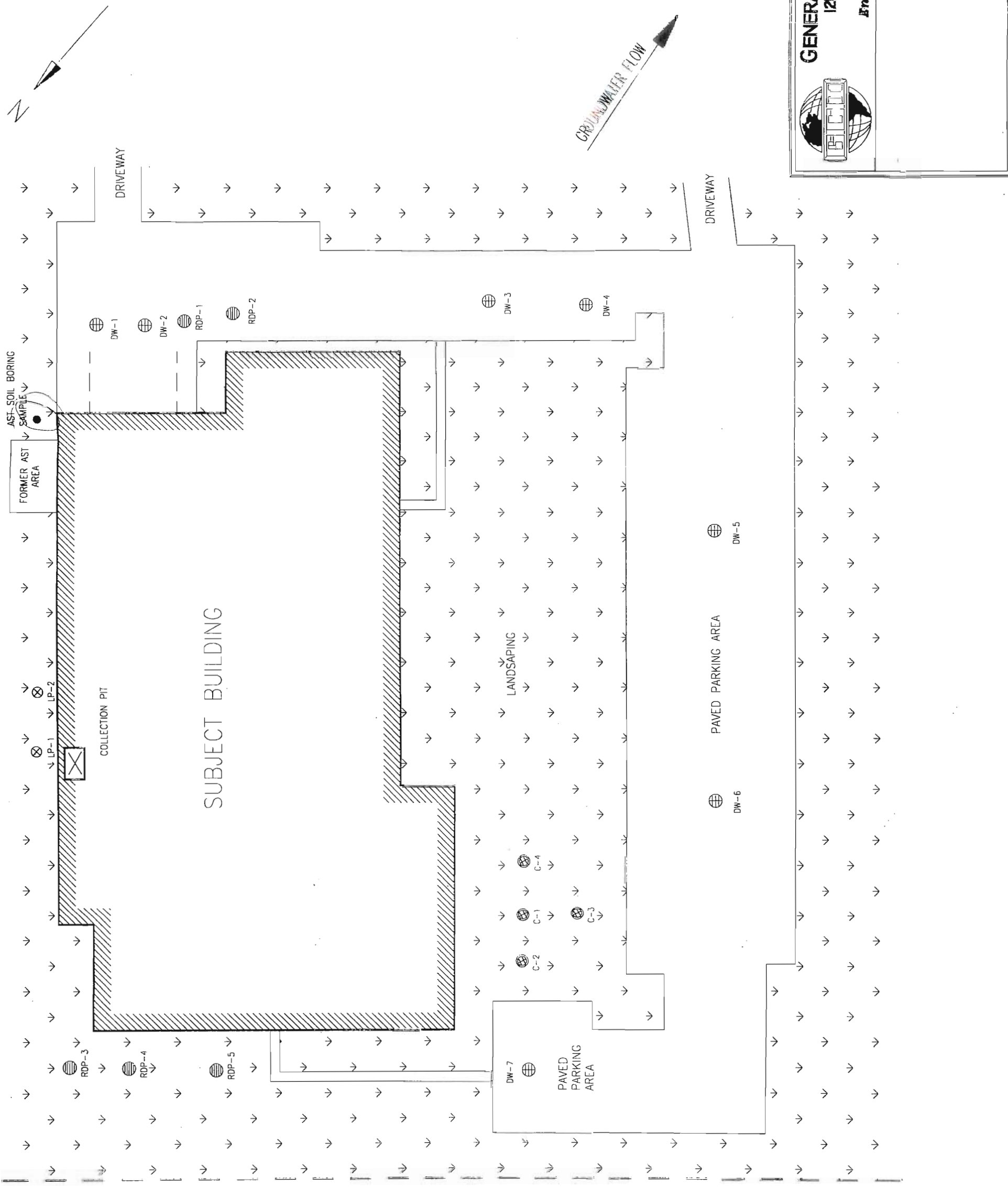
State-Lead Site: An inactive hazardous waste site that the Department has responsibility for investigating problems at and for developing and implementing the site's remedial program. The Department uses money available from the State Superfund and the Environmental Quality Bond Act of 1986 to pay for these activities. The Department has direct control and responsibility for the remedial program.

LEGEND

- PROPERTY LINE ———
- BUILDING BORDER ———
- CONCRETE WALL ———
- LEACHING POOL SAMPLE ⊗
- LOADING BAY DRAIN SAMPLE ⊕
- ROOF DRAIN SAMPLE ⊕
- CESSPOOL ⊕



SITE LOCATION



GENERAL CONSOLIDATED INDUSTRIES INC.
 126 BAYLIS ROAD, MELVILLE, NEW YORK 11747
 1-800-842-8073
Environmental & Engineering Consultants

TITLE: FIGURE 4— SAMPLING LOCATION MAP	
LOCATION:	26 PRECISION DRIVE SHIRLEY, NEW YORK
CLIENT:	KEMPEY ENGINEERING
DRAWN BY:	PJH
CHECKED BY:	TS
LAST REVISION BY:	DATE:
SECTION:	584.00 BLOCK: 01.00 LOT: 04.034
PROJECT No.:	960102
DRAWING No.:	960102SP
SCALE:	1" = 55'
FIG. No.:	1 OF 1

6.0 FIELD SAMPLING PLAN

In order to obtain representative background soil quality data regarding metals, it was determined that three (3) soil borings would be completed in the undeveloped areas of the industrial park. The soil borings will be completed in areas that are non-proximal to industrial activities and/or the Long Island Expressway. A surficial soil sample will be collected from grade to approximately six (6) inches below land surface from each of the borings. In addition, a representative subsurface soil sample will be collected at a depth of five (5) feet below grade in each of the borings. The samples will be collected utilizing a steel hand auger. The surficial and subsurface samples collected in each of the borings will be submitted for laboratory analysis of TAL Metals. The samples will be analyzed by a New York State Certified laboratory and the analytical data will be presented in a New York State Department of Environmental Conservation (NYS DEC) ASP Category B deliverables package. The data obtained will be utilized for comparative purposes and to establish background soil quality in the vicinity of the subject property. In addition, please note that in order to address the additional data needs as discussed in Section 4.2, Kempey Engineering and GCI, Inc., propose to perform the following tasks as outlined in this section. All soil samples will be obtained utilizing a GeoProbe drill rig. All collected soil samples will be visually inspected in an attempt to identify signs of potential contamination. The soil samples will also be field screened with for the presence of volatile organic compounds (VOCs). The proposed sampling locations associated with the tasks are shown on Figure 4 - Sampling Location Map.

6.1 Standard Operating Procedure - Field Screening Activities

The following Standard Operating Procedure (SOP) will be followed during all soil screening activities conducted at the site. The purpose of the SOP is to ensure that uniform conditions prevail during the field screening activities. The field screening will be conducted utilizing an HNU Model DL-101 Photo-ionization Detector (PID). The following tasks will comprise the SOP to be utilized during the Focused Remedial Investigation:

- The HNU Model DL-101 Photo-ionization Detector (PID) will be calibrated prior to each day's use. The PID will be calibrated using 100 parts per million (ppm) isobutylene gas. In addition, certain internal components will be cleaned routinely, such as the lamp and the probe node.

- A representative portion will be retained from each of the soil borings collected. The representative soil sample will then be stored in an air-tight medium. The sample will then be agitated for a period of thirty (30) seconds, in order to allow for volatilization of any VOCs present.
- A section of teflon tubing will be connected to the end of the PID probe node and then inserted into the headspace of the air-tight medium. The teflon tubing will be changed prior to each field screening episode. The PID will remain in the headspace sample until a stable reading has been achieved. The PID results will be recorded and utilized for determining which samples will be submitted for laboratory analysis.

6.2 West Side Sanitary System

The sanitary system for the subject building consists of a primary cesspool (C-1) and three (3) overflow leaching pools (C-2 through C-4) located to the north, west and south of C-1. Please note that in June 1992, the SCDHS approved the pump-out and disposal of approximately 8,000 gallons of liquid from the on-site cesspool. There have been no other remedial activities conducted with regard to the on-site sanitary system.

C-1 (eastern sanitary leaching pool): This is a primary septic tank and is constructed with solid walls and bottom. Based upon the fact that the septic tank is constructed with a solid bottom no representative soil samples will be collected from this area. However, should further investigation prove that the bottom of the primary septic tank is not solid, then representative samples will be collected in a similar fashion as the remaining pools.

C-2 (northern sanitary leaching pool): Soil sample from the bottom invert level and then representative soil samples will be collected at continuous five (5) foot intervals as described below.

C-3 (western sanitary leaching pool): Soil sample from the bottom invert level and then representative soil samples will be collected at continuous five (5) foot intervals as described below.

C-4 (southern sanitary leaching pool): Soil sample from the bottom invert level and then representative soil samples will be collected at continuous five (5) foot intervals as described below.

All soil borings will be completed to the groundwater interface level. The collected soil samples will be field screened with an HNU photo-ionization detector (PID), as well as visually inspected. On the basis of the field observations and PID screening results, a total of one (1) soil sample will be submitted from each of the pools for laboratory analysis of TCL Volatiles and TAL Metals. The results will be presented in a NYSDEC ASP Category B deliverables package. Please note that should the PID readings and visual inspection prove to be inconclusive as to the presence of contamination, then the soil sample collected from directly above the soil/groundwater interface will be submitted for analysis.

6.3 East Side Leaching Pool System

There are two (2) leaching pools located on the east side of the subject building. The pools had formerly received discharges of non-contact cooling water during the normal operations conducted at the site by Precision Concepts. The pools are currently accessible at grade with steel manhole covers.

LP-1 (northern leaching pool): Soil sample from the bottom invert level and then representative soil samples will be collected at continuous five (5) foot intervals as described below.

LP-2 (southern leaching pool): Soil sample from the bottom invert level and then representative soil samples will be collected at continuous five (5) foot intervals as described below.

All soil borings will be completed to the groundwater interface level. The collected soil samples will be field screened with an HNU photo-ionization detector (PID), as well as visually inspected. On the basis of the field observations and PID screening results, a total of one (1) soil sample will be submitted from each of the pools for laboratory analysis of TCL Volatiles and TAL Metals. The results will be presented in a NYSDEC ASP Category B deliverables package. Please note that should the PID readings and visual inspection prove to be inconclusive as to the presence of contamination, then the soil sample collected from directly above the soil/groundwater interface will be submitted for analysis.

6.4 Roof Drains

The roof drainage system at the subject building consists of three (3) leaching pools on the north side of the subject building in order to collect the storm water from the north side of the roof and there are two (2) leaching pools located on the south side for storm water collection purposes. The SCDHS noticed during a routine inspection of the subject site that there was a "Y" connection in the rear (south) central roof drainage line which appeared to have been open at one time. The two (2) roof drain leaching pools were located below grade. The pools were uncovered and representative soil samples from the bottom invert level were obtained for laboratory analysis of volatile organic compounds (VOCs) using EPA method 8260 as well as for the thirteen (13) heavy metals. The analytical results indicated that there were no elevated levels of either VOCs or metals present in either sample.

RDP-1 (eastern pool): Soil sample from the bottom invert level and then representative soil samples will be collected at continuous five (5) foot intervals as described below.

RDP-2 (western pool): Soil sample from the bottom invert level and then representative soil samples will be collected at continuous five (5) foot intervals as described below.

All soil borings will be completed to the groundwater interface level. The collected soil samples will be field screened with an HNU photo-ionization detector (PID), as well as visually inspected. On the basis of the field observations and PID screening results, a total of one (1) soil sample will be submitted from each of the roof drains for laboratory analysis of TCL Volatiles and TAL Metals. The results will be presented in a NYSDEC ASP Category B deliverables package. Please note that should the PID readings and visual inspection prove to be inconclusive as to the presence of contamination, then the soil sample collected from directly above the soil/groundwater interface will be submitted for analysis.

6.5 Storm Water Drains

There are two (2) storm water drains located in the rear (south) loading dock. The drains are utilized for storm water collection only, they are not connected to any interior piping. Previous samples obtained from the loading dock storm drains have indicated the presence of copper and chromium at elevated levels. There has been no remedial work conducted on the loading dock storm drains.

DW-1 (eastern drain): Soil sample from the bottom invert level and then representative soil samples will be collected at continuous five (5) foot intervals as described below.

DW-2 (western drain): Soil sample from the bottom invert level and then representative soil samples will be collected at continuous five (5) foot intervals as described below.

All soil borings will be completed to the groundwater interface level. The collected soil samples will be field screened with an HNU photo-ionization detector (PID), as well as visually inspected. On the basis of the field observations and PID screening results, a total of one (1) soil sample will be submitted from each of the storm water drains for laboratory analysis of TCL Volatiles and TAL Metals. The results will be presented in a NYSDEC ASP Category B deliverables package. Please note that should the PID readings and visual inspection prove to be inconclusive as to the presence of contamination, then the soil sample collected from directly above the soil/groundwater interface will be submitted for analysis.

6.6 Former Aboveground Storage Tank (AST) Area

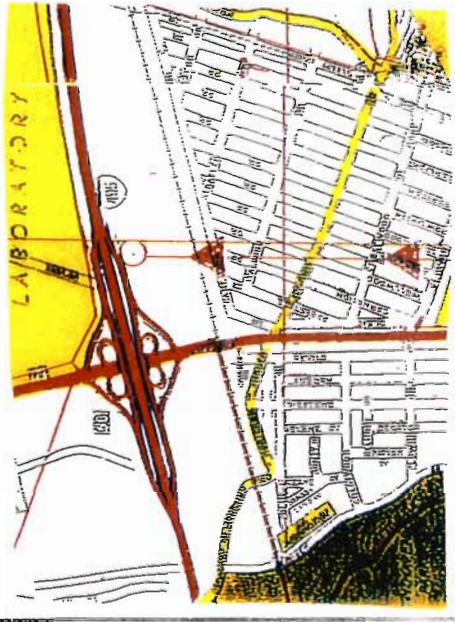
There was a former 6,000 gallon AST located near the southeast corner of the subject building. The AST was utilized for storage of waste water contaminated with TCA. This area is secured with a 4-foot high concrete berm area. The AST was decommissioned and removed from the site in 1993. One (1) soil boring will be conducted directly downgradient and as close to this area as possible.

SB-1 (directly south of the AST area): The soil boring will be completed to a final depth of approximately 45 feet below land surface. A surficial soil sample will be collected from grade to a depth of approximately two (2) inches below grade. Additional soil samples will be collected at ten (10) foot intervals starting at five (5) feet below grade as described below.

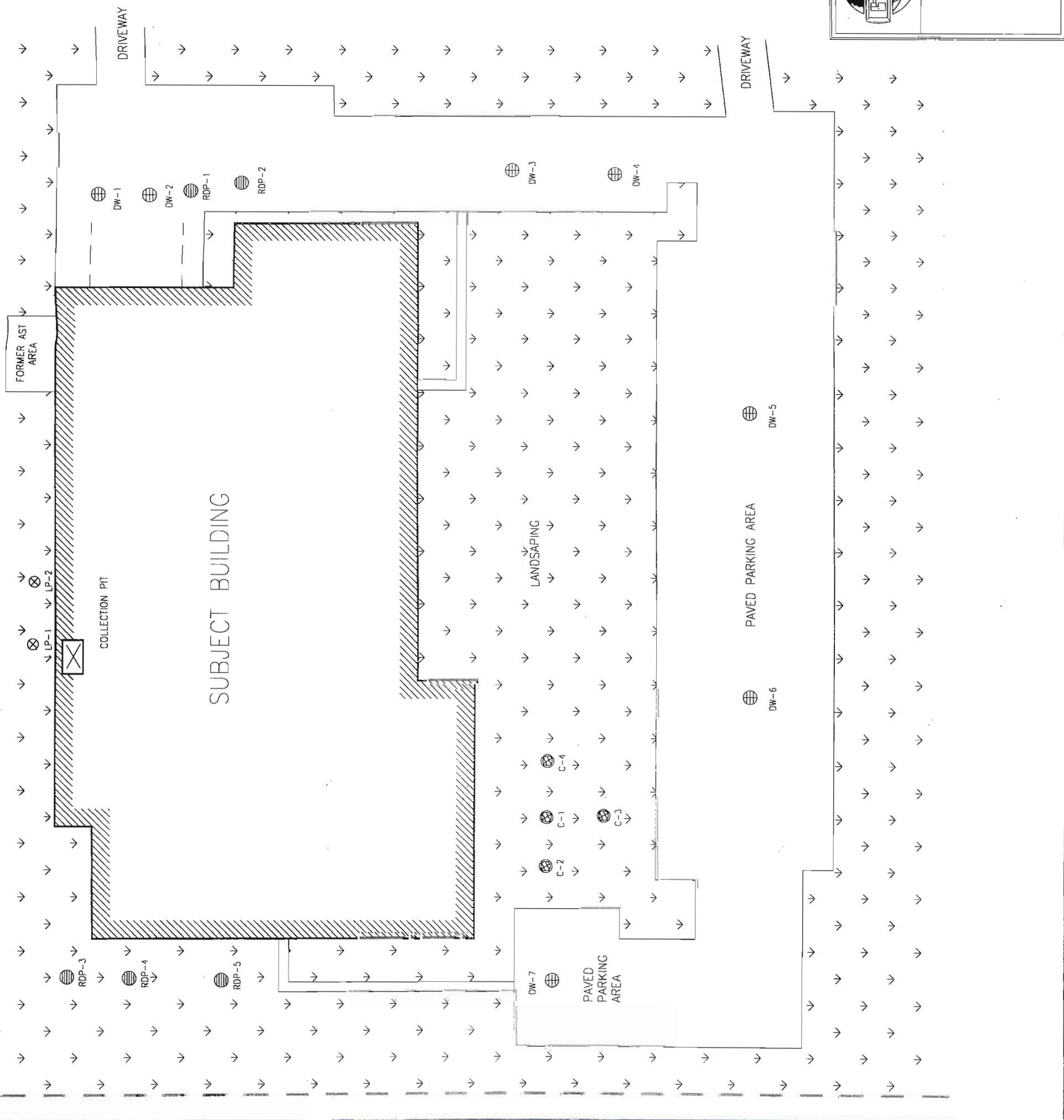
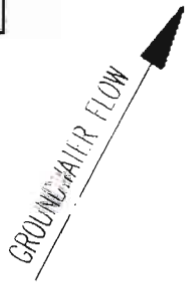
The soil boring will be completed to the groundwater interface level. The collected soil samples will be field screened with an HNU photo-ionization detector (PID), as well as visually inspected. The surficial soil sample, as well as one (1) subsurface soil sample will be submitted from the soil boring for laboratory analysis of TCL Volatiles and TAL Metals. The results will be presented in a NYSDEC ASP Category B deliverables package. Please note that should the PID readings and visual inspection prove to be inconclusive as to the presence of contamination, then the soil sample collected from directly above the soil/groundwater interface will be submitted for analysis.

LEGEND

- PROPERTY LINE ———
- BUILDING BORDER ———
- CONCRETE WALL - - - - -
- LEACHING POOL SAMPLE ⊗
- LOADING BAY DRAIN SAMPLE ⊕
- ROOF DRAIN SAMPLE ⊕
- CESSPOOL ⊕



SITE LOCATION



GENERAL CONSOLIDATED INDUSTRIES INC.
 125 BAYLS ROAD, MELVILLE, NEW YORK 11747
 1-800-842-5073
Environmental & Engineering Consultants

TITLE: FIGURE 2 - SITE PLAN	
LOCATION:	26 PRECISION DRIVE SHIRLEY, NEW YORK
CLIENT:	KEMPEY ENGINEERING
SECTION: 584.00	BLOCK: 01.00 LOT: 04.034
DATE: 5 / 21 / 98	PROJECT No.: 960102
DATE: 5 / 21 / 98	DRAWING No.: 960102SP
DATE:	SCALE: 1" = 55'
DATE:	FIG. No.: 1 OF 1

6.0 FIELD SAMPLING PLAN

In order to obtain representative background soil quality data regarding metals, it was determined that three (3) soil borings would be completed in the undeveloped areas of the industrial park. The soil borings will be completed in areas that are non-proximal to industrial activities and/or the Long Island Expressway. A surficial soil sample will be collected from grade to approximately six (6) inches below land surface from each of the borings. In addition, a representative subsurface soil sample will be collected at a depth of five (5) feet below grade in each of the borings. The samples will be collected utilizing a steel hand auger. The surficial and subsurface samples collected in each of the borings will be submitted for laboratory analysis of TAL Metals. The samples will be analyzed by a New York State Certified laboratory and the analytical data will be presented in a New York State Department of Environmental Conservation (NYS DEC) ASP Category B deliverables package. The data obtained will be utilized for comparative purposes and to establish background soil quality in the vicinity of the subject property. In addition, please note that in order to address the additional data needs as discussed in Section 4.2, Kempey Engineering and GCI, Inc., propose to perform the following tasks as outlined in this section. All soil samples will be obtained utilizing a GeoProbe drill rig. All collected soil samples will be visually inspected in an attempt to identify signs of potential contamination. The soil samples will also be field screened with for the presence of volatile organic compounds (VOCs). The proposed sampling locations associated with the tasks are shown on Figure 4 - Sampling Location Map.

6.1 Standard Operating Procedure - Field Screening Activities

The following Standard Operating Procedure (SOP) will be followed during all soil screening activities conducted at the site. The purpose of the SOP is to ensure that uniform conditions prevail during the field screening activities. The field screening will be conducted utilizing an HNU Model DL-101 Photo-ionization Detector (PID). The following tasks will comprise the SOP to be utilized during the Focused Remedial Investigation:

- The HNU Model DL-101 Photo-ionization Detector (PID) will be calibrated prior to each day's use. The PID will be calibrated using 100 parts per million (ppm) isobutylene gas. In addition, certain internal components will be cleaned routinely, such as the lamp and the probe node.

- A representative portion will be retained from each of the soil borings collected. The representative soil sample will then be stored in an air-tight medium. The sample will then be agitated for a period of thirty (30) seconds, in order to allow for volatilization of any VOCs present.
- A section of teflon tubing will be connected to the end of the PID probe node and then inserted into the headspace of the air-tight medium. The teflon tubing will be changed prior to each field screening episode. The PID will remain in the headspace sample until a stable reading has been achieved. The PID results will be recorded and utilized for determining which samples will be submitted for laboratory analysis.

6.2 West Side Sanitary System

The sanitary system for the subject building consists of a primary cesspool (C-1) and three (3) overflow leaching pools (C-2 through C-4) located to the north, west and south of C-1. Please note that in June 1992, the SCDHS approved the pump-out and disposal of approximately 8,000 gallons of liquid from the on-site cesspool. There have been no other remedial activities conducted with regard to the on-site sanitary system.

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C-2 (northern sanitary leaching pool): Soil sample from the bottom invert level and then representative soil samples will be collected at continuous five (5) foot intervals as described below.

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6.3 East Side Leaching Pool System

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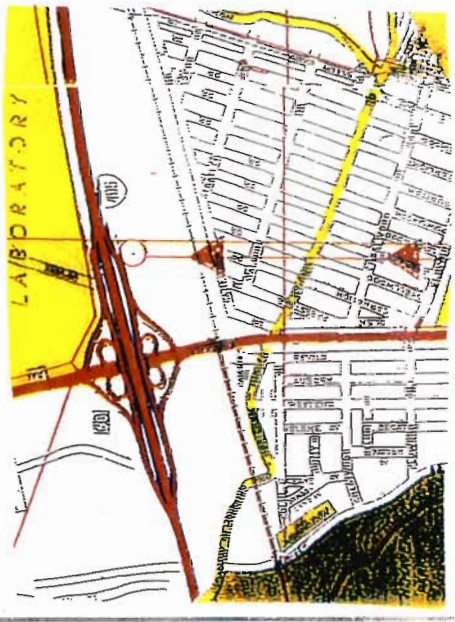
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LEGEND

- PROPERTY LINE ———
- BUILDING BORDER ———
- CONCRETE WALL - - - - -
- LEACHING POOL SAMPLE ⊗
- LOADING BAY DRAIN SAMPLE ⊕
- ROOF DRAIN SAMPLE ⊕
- CESSPOOL ⊕

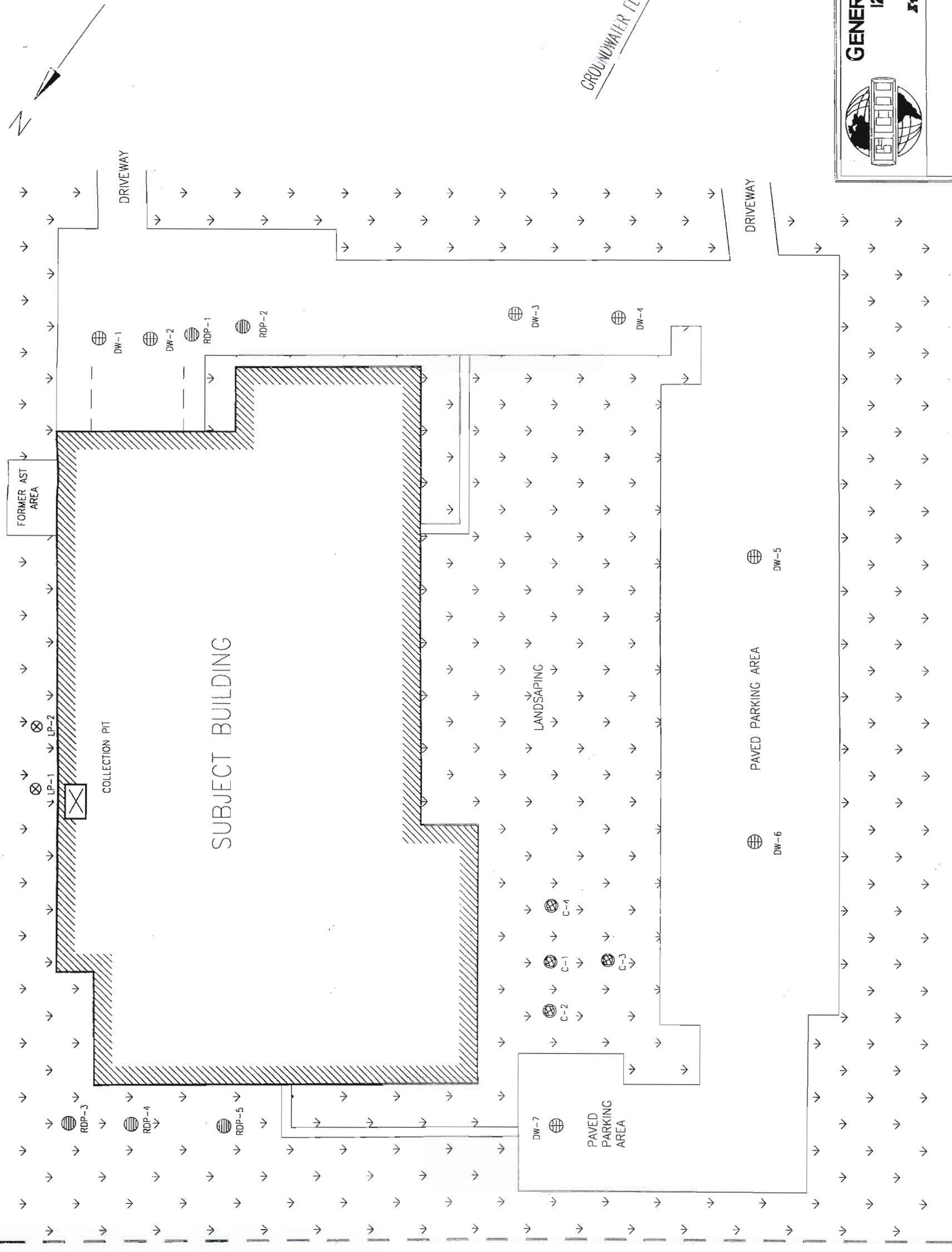


SITE LOCATION



GENERAL CONSOLIDATED INDUSTRIES INC.
 125 BAYLIS ROAD, MELVILLE, NEW YORK 11747
 1-800-842-5073
Environmental & Engineering Consultants

TITLE: FIGURE 2 - SITE PLAN	
LOCATION:	26 PRECISION DRIVE SHIRLEY, NEW YORK
CLIENT:	KEMPEY ENGINEERING
SECTION:	584.00 BLOCK: 01.00 LOT: 04.034
DRAWN BY: PJH	DATE: 5 / 21 / 98 PROJECT No: 960102
CHECKED BY: JS	DATE: 5 / 21 / 98 DRAWING No: 960102SP
LAST REVISED BY:	DATE: SCALE: 1" = 55' FIG. No: 1 OF 1

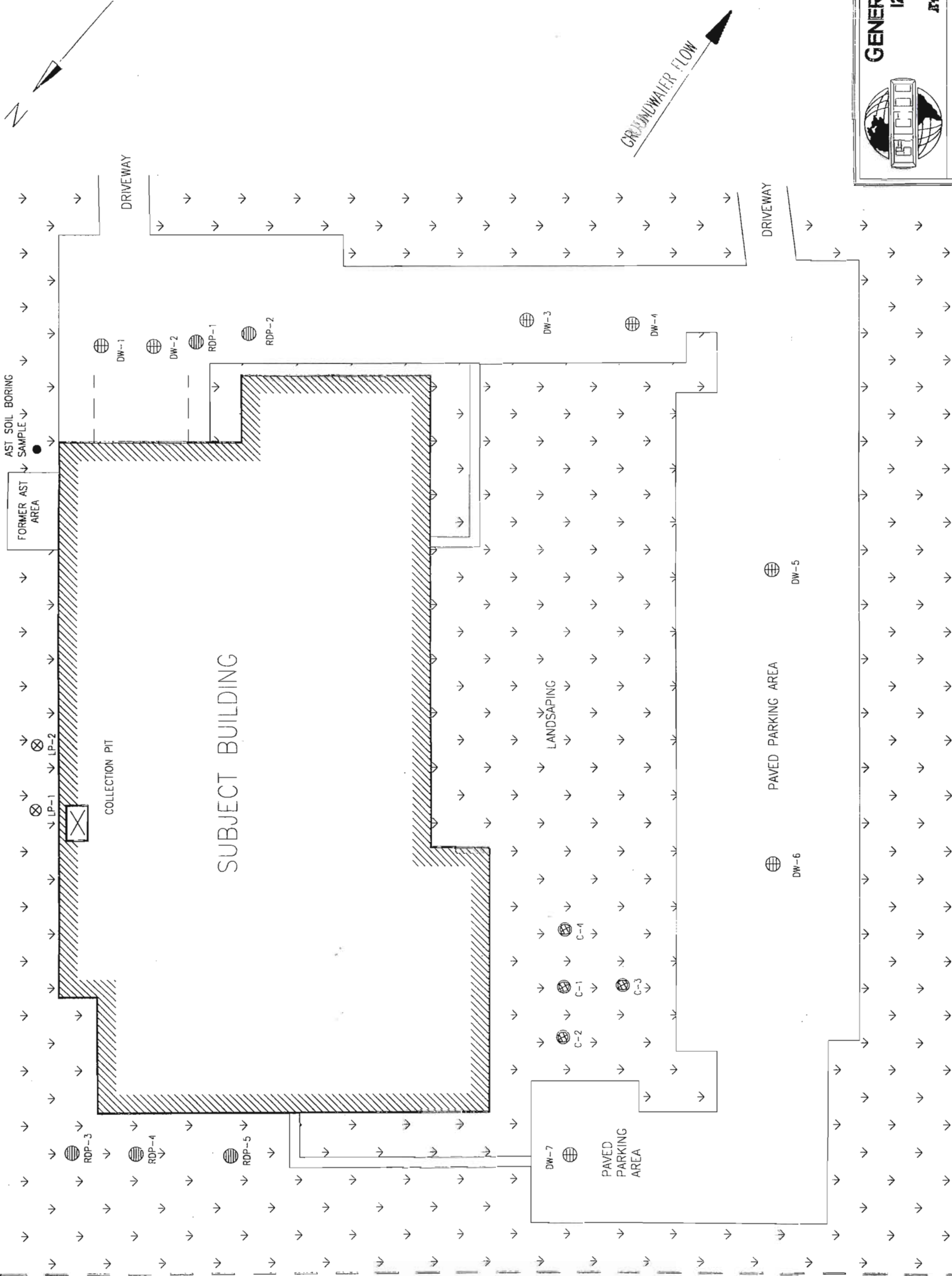


LEGEND

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SITE LOCATION



GENERAL CONSOLIDATED INDUSTRIES INC.
 126 BAYLIS ROAD, MELVILLE, NEW YORK 11747
 1-800-842-6073
Environmental & Engineering Consultants

TITLE: FIGURE 4— SAMPLING LOCATION MAP	
LOCATION:	26 PRECISION DRIVE SHIRLEY, NEW YORK
CLIENT:	KEMPEY ENGINEERING
DRAWN BY: PJH	DATE: 5 / 21 / 98
CHECKED BY: JS	DATE: 5 / 21 / 98
LAST REVISION BY:	DATE:
SECTION: 584.00 BLOCK: 01.00 LOT: 04.034	
PROJECT NO.: 960102	SCALE: 1" = 55'
DRAWING NO.: 960102SP	FIG. NO.: 1 OF 1