

SOIL MECHANICS

ENVIRONMENTAL SERVICES

3770 MERRICK ROAD • SEAFORD, L.I., NEW YORK 11783
(516) 221-7500 • FAX (516) 679-1900

ENVIRONMENTAL ASSESSMENT

PROPERTY LOCATED AT:

EXISTING THYPIN STEEL SITE
PORT WASHINGTON (MANORHAVEN), NEW YORK

89-017

PREPARED FOR:

THYPIN STEEL
49-49 30TH STREET
LONG ISLAND CITY, NEW YORK

MAY 1989

PREPARED BY:

SOIL MECHANICS DRILLING CORP.
3770 MERRICK ROAD
SEAFORD, NEW YORK 11783

TABLE OF CONTENTS

1.0	INTRODUCTION	1
1.1	SCOPE OF WORK	1
1.2	CONTENTS OF REPORT	2
2.0	SUMMARY OF FINDINGS AND CONCLUSIONS	2
3.0	LOCATION AND DESCRIPTION	3
3.1	SITE HISTORY	5
4.0	AGENCY CONTACT	6
4.1	REPORTED SPILL LOCATIONS	8
5.0	REGIONAL GEOLOGY	8
5.1	REGIONAL HYDROGEOLOGIC BACKGROUND	9
6.0	DATA COLLECTION	9
6.1	METHODOLOGY	10
6.1.1	SOIL TEST BORINGS	10
6.1.2	SOIL SAMPLING PROCEDURES	10
6.1.3	HEAD SPACE ANALYSIS	12
6.1.4	HAND AUGER/GRAB SAMPLING	12
6.1.5	FIELD DECONTAMINATION	14
6.1.6	LABORATORY ANALYSIS	14

6.1.7	MONITORING WELLS	15
6.1.8	DECONTAMINATION	19
6.1.9	MONITORING WELL DEVELOPMENT	19
6.1.10	GROUNDWATER LEVEL MEASUREMENTS	19
6.1.11	GROUNDWATER SAMPLING PROCEDURES	20
6.1.12	LABORATORY ANALYSIS	20
6.1.13	SOIL GAS/VAPOR PROBES	23
7.0	FINDINGS	23
7.1	INTRODUCTION	23
7.1.1	SOILS REPORT	23
7.1.2	HYDROGEOLOGY	25
7.1.3	GROUNDWATER SUPPLY WELL INVENTORY	27
7.1.4	SITE INSPECTION	27
7.1.5	SOILS QUALITY	36
7.1.6	HEAD SPACE ANALYSIS	43
7.1.7	SOIL GAS SURVEY (VAPOR PROBES)	43
7.1.8	GROUNDWATER QUALITY	43
7.1.9	RADIATION SURVEY	50
8.0	CONCLUSIONS AND RECOMMENDATIONS	50
	DISCLAIMER	57
	APPENDIX 1	58
	APPENDIX 2	59
	APPENDIX 3	60
	APPENDIX 4	61

1.0 INTRODUCTION

The purpose of this report is to present the results of a Phase I environmental investigation conducted at the subject property known as the Thyphin Steel Company, located in Port Washington, New York. The overall objective of this report is to characterize the environmental conditions, at selected locations within the subject property, with respect to the quality of soil gas, surface and subsurface soils, and groundwater. A separate Asbestos Survey was conducted as part of this investigation and will accompany this report. (See Appendix 1.)

1.1 SCOPE OF WORK

Various items were identified as part of the scope of this investigation and included:

1. A visual inspection of the subject property, including the interiors of the existing structures.
2. Review of various documentation of appropriate state, local, and federal agencies.
3. A survey of adjacent properties for current land use.
4. Development of a sampling and analysis program.
5. Soil test borings and collection of soil samples.
6. Installation of groundwater monitoring wells.
7. Collection of groundwater samples.
8. Laboratory analysis of soil and groundwater samples.
9. Visual inspection, sample collection, and laboratory analysis of potential asbestos containing materials.
10. Survey of soil gas, at selected locations, for organic vapor.
11. Evaluation of the various factors obtained during the investigation.

The investigative work was conducted during the period of February 1989 through April 1989 by Soil Mechanics; laboratory analysis of the soil and groundwater samples was conducted by Ecotest Laboratories (NYS Certified Laboratory), located in North Babylon, New York. The asbestos survey was conducted by Testing Mechanics, located in Seaford, New York.

1.2 CONTENTS OF REPORT

This report has been divided into eight chapters. The first chapter contains introductory material pertaining to the purpose and scope of the investigation. The second chapter summarizes the findings and conclusions. Chapter three describes the location and description of the subject property. Chapter four summarizes background information collected prior to and during the investigation. Chapter five describes regional geology and hydrogeologic background information. Chapter six describes methodology related to field/sampling investigative activities. The seventh chapter presents the findings observed during the scope of this investigation. Chapter eight contains the conclusions and recommendations.

2.0 SUMMARY OF FINDINGS AND CONCLUSIONS

A visual inspection was conducted to assess the environmental conditions at the subject property. This inspection included both the interior of the existing building and the surrounding surface area. The visual inspection revealed a number of items, located throughout the subject property, that could potentially impact upon the environmental quality of the site (See Section 7.1.4).

Soil and groundwater samples were collected, from soil test borings and monitoring wells, located within the subject property. The samples were selectively laboratory analyzed for parameters that included volatile organics

(VOC), priority pollutant heavy metals, and Total Petroleum Hydrocarbons (TPHC).

The results of laboratory analysis indicated the presence of detectable concentrations of TPHC, volatile organics, and heavy metals in selected soil samples. Volatile organics and heavy metals were also detected in the groundwater samples. Elevated heavy metal and TPHC concentrations, detected in the soil samples collected from dry well locations, warrant consideration towards additional investigation and remediation.

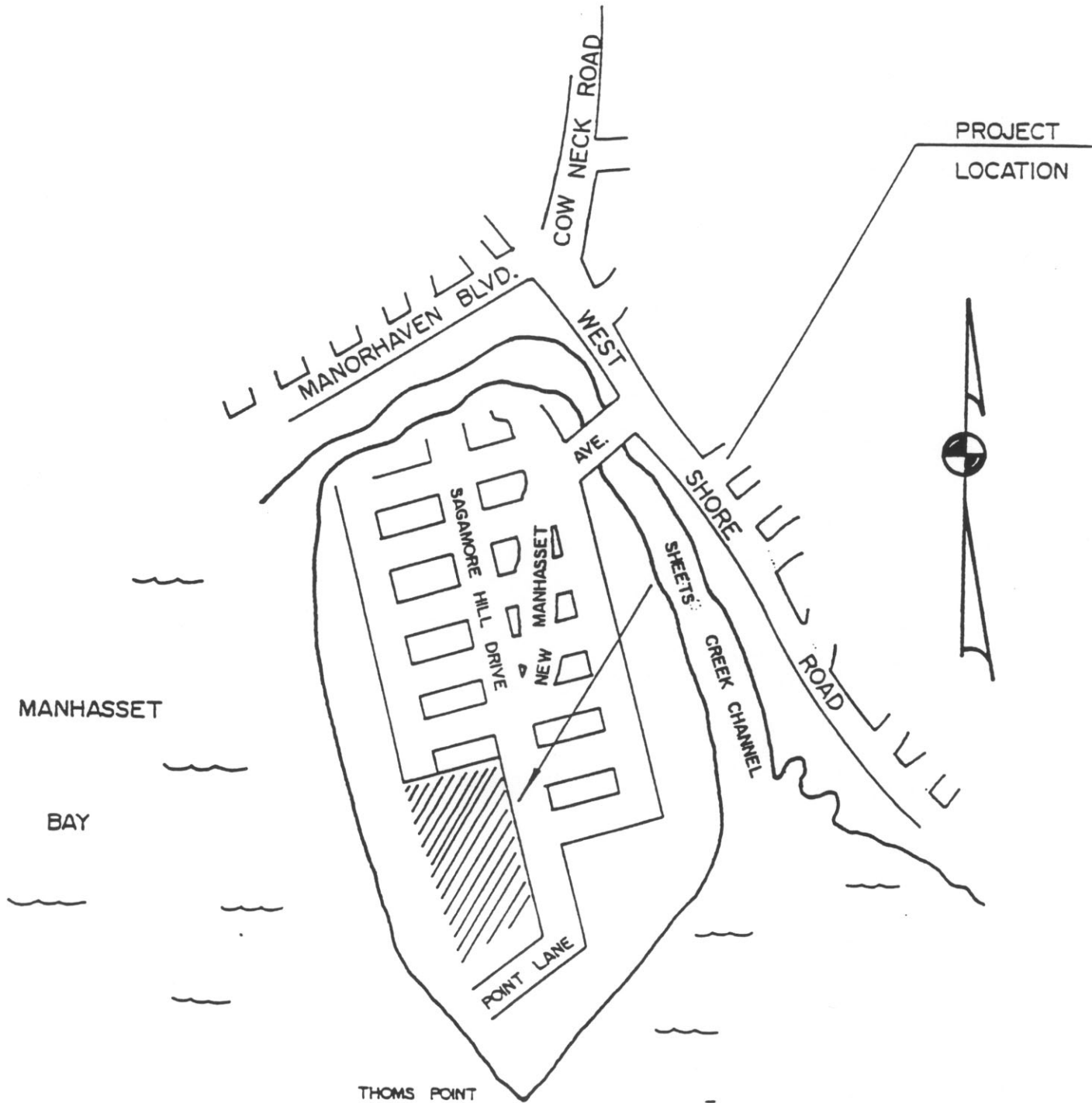
3.0 LOCATION AND DESCRIPTION

The subject property, known as Thyphin Steel Co., Inc., is located on Yennicoek Avenue, west of Sagamore Hill Drive, in Port Washington, New York. (See Plate 1.) ✓

The subject property presently consists of several large, interconnected, buildings (main building complex), several isolated smaller buildings, and various other structures. The buildings are constructed of masonry, wood, steel, and other common materials. The surface area, surrounding the existing structures and throughout most of the property, consists of concrete, asphalt pavement, exposed surface soil and sparsely vegetated (weeded) areas. The flooring within the existing structures consists of concrete, some of which has been covered with carpet or tile.

The southern half of the main building complex, as well as most of the surrounding surface area throughout the site, was or is currently being used by Thyphin for the storage of various types of steel products. This half of the main building complex consists of large warehouse areas and abandoned offices. Overhead cranes and a large metal cutting saw were observed in the warehouse

PLATE I
PROJECT LOCATION PLAN
PORT WASHINGTON, N.Y.



area. The eastern portion of this section of the main building complex had been damaged by fire.

The northern portion of the main building complex is currently leased by United Utensils Co., Inc. (Utensco), and is utilized as a manufacturing facility for various large steel and plastic vessels used in the food and drug industries. This half of the main building complex contains large warehouse/production areas and offices.

The property is bounded to the west by Manhasset Bay. The beach front area is sparsely vegetated and appears to have been subjected to dumping of common trash and debris. A large wooden ramp structure originates in the upgrade of the property and extends outward from the property into the harbor. Other items of potential environmental impact are identified as: several above-ground gas (propane) storage tanks, a sewage pumping station, an abandoned sanitary/industrial leaching field, and underground and partial above-ground fuel storage tanks.

Current land use surrounding the property consists of the following:

South of the site - Residential, commercial businesses, and Manhasset Bay.

North of the site - Retail and commercial businesses, and residential.

East of the site - Commercial and small retail businesses, industrial, and residential.

West of the site - Manhasset Bay.

3.1 SITE HISTORY

The subject property is currently owned by Manhasset Bay Associates, which leases space to Thyphin Steel Co., Inc. A portion of the existing property is currently leased by United Utensil Co., Inc. (Utensco).

Information, provided by the Thypin Steel Co., indicated the subject property was purchased from the U.S. Government in the 1950's. Operations conducted at the facility were related to aircraft manufacturing. Prior to ownership by the U.S. Government, the facility was operated by Pan American Airlines.

Utensco was reported to have leased a portion of the property and moved in sometime between 1966 and 1969. Thypin Steel was reported to have moved most of their operation around 1967, although some of the property is still utilized for the storage of various steel products.

A review of aerial photographs taken in 1950 indicated that the subject property consisted of several large connected buildings, several smaller isolated buildings, graded or asphalt paved surfaces, and marine launching ramps. Several small aircraft were also noticeably present. Surrounding land use consisted of residential and developed waterfront areas for commercial and recreational purposes.

By comparing the 1950 aerial photograph to the more recent 1969 and 1988 photographs, it was evident that significant changes to both the subject property and surrounding land had taken place. Changes to the subject property included several structural additions and the removal of several smaller isolated buildings. A notable structural addition was that of the sewage pumping building. Surrounding land use has changed considerably since 1950 and now consists primarily of residential, retail and commercial businesses, industrial, recreational, and office buildings.

4.0 AGENCY CONTACT

As part of this investigation, Soil Mechanics contacted appropriate state, county, and federal regulatory agencies to ascertain whether any incidents concerning major spills, hazardous material or wastes, known landfill sites, etc. were reported at the subject property.

The following background information is being presented to provide an overview of reported incidents at the subject property. Soil Mechanics was not, in any way, directly involved with investigations pertaining to the reported incidents presented in this section. The information was obtained through access to public records, under the Freedom of Information Law, and that provided by others.

Information obtained from the Nassau County Department of Health indicated that, during the period between March 1986 and February 1987, the Thyphin Steel Company (Yennicoek Avenue and Sagamore Hill Drive facility), was involved in activities related to an existing sewage pumping station, the eventual abandonment of the pumping station, and connection to the local gravity sewer system.

The sewage pumping station, which at the time pumped sewage directly to the Port Washington sewage treatment facility, was the subject of inspection by the Village of Manorhaven, Port Washington Water Pollution Control District, and the Nassau County Department of Health (NCDH). Written correspondence between these agencies and Thyphin Steel indicated that the pumping station was in disrepair and not operating properly. Although, as indicated at the time of these inspections, there were no apparent violations of the Nassau County Public Health ordinances, it was noted that potential problems could develop if the system was not repaired. Thyphin Steel was reminded of the environmentally sensitive area surrounding the facility, and that any discharge of sanitary waste could adversely effect the environment, and would be in violation of Article II Section 4 of the Nassau County Public Health ordinance.

Thyphin Steel was advised on January 16, 1987 to deactivate the sewage pumping station and force main, transporting sewage directly to the treatment facility, and connect the entire facility to the gravity sewer system. This was to be accomplished by June 1, 1987.

Verbal communication, with municipal agencies involved, provided various accounts of the present status of the situation.

Review of the current New York State Department of Environmental Conservation (NYSDEC) publication, Inactive Hazardous Waste Disposal Sites in New York State, indicated no reported incidents concerning hazardous materials or wastes, known landfill sites, etc. at the site. There were no additional sites within a one (1) mile radius of the subject property. It did however, indicate the presence of one (1) site located approximately two and one-half (2-1/2) miles to the southeast of the subject property. This site was identified as the Port Washington Landfill, located on Shore Road, in Port Washington, New York. The site was listed as contaminating the groundwater with heavy metals.

The subject property did not appear on the federal publications, "National Priority List" (NPL) or the "CERCLIS." There were no additional listings.

4.1 REPORTED SPILL LOCATIONS

Information obtained from the New York State Department of Environmental Conservation (NYSDEC) Region I office revealed ninety (90) spill locations, reported during the period of 1979 to May 1st 1989, in the Port Washington - Manorhaven area. None of the reported spills were located at the subject property.

5.0 REGIONAL GEOLOGY

The Thyphin Steel facility is located on Long Island in what is considered the Atlantic Coastal Plain Physiographic Province. Long Island consists largely of glacial deposits that are underlain by unconsolidated deposits of Cretaceous age followed by Precambrian bedrock. The bedrock consists of granite gneisses and schists. Bedrock beneath the subject property occurs at depths greater than 100 feet below sea level ("Water -Transmitting Properties of Aquifers on Long Island,

New York", Geological Survey Professional Paper 627-E). The most recent glacial sediments are those deposited during the Late Wisconsinian Glaciation of Long Island. These deposits consist primarily of end moraines, in the northern section of Nassau County, and broad, south sloping, outwash plains in the central and southern section of Nassau County.

5.1 REGIONAL HYDROGEOLOGIC BACKGROUND

Hydrogeologic information, obtained from groundwater contour maps relative to the area, indicates a general southwesterly groundwater flow component towards the local harbors and bays.

Unconsolidated Cretaceous sediments, making up the hydrogeologic units in the region, include the Magothy Formation, the Raritan Clay, and Lloyd Sand members of the Raritan Formation. Within Nassau County, the Lloyd Sand and Magothy Formation consist of permeable unconsolidated sand and gravel that form important water transmitting units (aquifers). The Raritan Clay is an impermeable layer limiting the flow of fresh water entering the underlying Lloyd Sands from the Magothy Aquifer. The Magothy Aquifer is overlain by units of lower permeability that limit the flow of fresh water entering from the upper glacial aquifer. The upper glacial aquifer exists under unconfined water table conditions, while the Magothy Aquifer and the Lloyd Sand are under artesian conditions.

Nassau and Suffolk Counties have been designated sole source aquifers by the US EPA. Sole source aquifer status indicates that all drinking water on Long Island is supplied by groundwater.

6.0 DATA COLLECTION

Field activities associated with data collection were performed during February 1989 through April 1989. The field activities consisted of soil test

borings, surface and subsurface soil sampling, installation of groundwater monitoring wells, groundwater sampling and soil gas survey. Agency contact and review of appropriate documentation were conducted between February 1989 and April 1989.

6.1.0 METHODOLOGY

6.1.1 SOIL TEST BORINGS

Eighteen (18) soil test borings were drilled by Soil Mechanics Drilling Corporation. The soil test borings were drilled for the purpose of collecting subsurface soil samples for laboratory analysis and subsequent determination of soil quality at selected locations. The soil test borings are identified as B-1, B-2, B-3, B-4, B-5, B-7, B-8, B-9, B-11, B-13, B-15, B-16, B-17, B-18, B-19, B-20, B-21, and B-22. The soil test boring locations are shown in Plate 2. ✓

The soil test borings were drilled, using the hollow stem auger drilling technique (2-1/4 inch I.D.), to provide an open borehole to each sampling interval. The sampling device, a 2-foot long by 2-inch diameter standard split-spoon sampler, was delivered through the hollow stem auger/borehole to each sampling point. The split-spoon sampler was advanced beyond the base of the auger, approximately 24 inches, into subsurface soil to collect a soil sample.

6.1.2 SOIL SAMPLING PROCEDURES

Upon recovery, each split-spoon sampler was opened and its contents visually examined, noting physical characteristics that included color, odor, and any obvious signs of contamination.

Soil samples being tested for volatile organics (VOC) were collected and containerized immediately upon recovery. A representative sample, consisting of roughly equal portions of the upper, lower, and middle sections of each split-spoon

sample (no air mixing), was placed in air-tight volatile organic (VOC) vials (with no head space), labelled, and refrigerated. A second sample (with head space) was placed in a wide-mouth glass jar for head space organic vapor analysis. A composite of the remaining sample was placed in a glass jar for priority pollutant heavy metals, and Total Petroleum Hydrocarbons (TPHC) analysis.

Soil samples were selected for laboratory analysis from each test boring based on head space analysis results and/or visual examination of physical characteristics. Depths and identification of each soil sample are presented in Plate 3. ✓

6.1.3 HEAD SPACE ANALYSIS

Head space organic vapor analysis was performed in the field, using a Foxboro Century flame-ionization detector, Model OVA 128 GC, on all soil samples collected during the drilling of the soil test borings. In addition to the soil samples that were collected for laboratory analysis of VOC (no head space), a second sample was placed in a wide-mouth glass jar (with head space) sealed with aluminum foil and rubber banded. The samples were shaken in order to allow any trapped vapor within the pore space to occupy the head space of the jar. After being stored for a uniform period of time, in a temperature-controlled environment, a clean probe (OVA) was injected through the foil to measure the organic vapor content of each sample. The results of organic vapor screening were used to select soil samples for laboratory analysis, and to establish an organic vapor profile for each borehole. (See Plate 16 ✓ in Section 7.1.6.)

6.1.4 HAND AUGER/GRAB SAMPLING

Soil samples were collected from six (6) additional locations using a hand auger. Three samples were collected from dry well locations identified as B-90, B-110, and B-120. Sample B-100 was collected from a drum storage area. Samples

SOIL SAMPLE
IDENTIFICATION AND LOCATION
THYPIN STEEL, PORT WASHINGTON, NEW YORK

PLATE 3

<u>BORING LOCATION</u>	<u>DATE</u>	<u>SAMPLE ID</u>	<u>DEPTH (ft.)</u>
B-1	3/14/89	B-1	2-4
B-2	3/14/89	B-2	10-12
B-3	3/15/89	B-3	2-4
B-4	3/14/89	B-4	4-6
B-5	3/13/89	B-5	5-7
B-7	3/10/89	B-7	6-8
B-8	3/13/89	B-8	4-6
B-9	3/13/89	B-9	6-8
B-11	3/13/89	B-11	2-4
B-13	3/13/89	B-13	6-8
B-15	3/13/89	B-15	4-6
B-16	3/16/89	B-16	6-8
B-17	3/16/89	B-17	4-6
B-18	3/16/89	B-18	4-6
B-19	3/15/89	B-19	6-8
B-20	3/15/89	B-20	6-8
B-21	3/16/89	B-21	8-10
B-22	3/15/89	B-22	8-10
B-90	4/3/89	B-90	*
B-100	4/3/89	B-100	*
B-110	4/3/89	B-110	*
B-120	4/17/89	B-120	*
B-130	4/17/89	B-130	*
B-140	4/17/89	B-140	*

* Grab Sample

B-130 and B-140 were collected in the proximity of large electrical transformer locations.

6.1.5 FIELD DECONTAMINATION

The hollow stem augers, drilling rods, drill bits, etc. were steam cleaned prior to use at each borehole location to prevent possible cross contamination. A clean working surface, consisting of a plastic tarp, was provided at each location.

The sampling equipment was decontaminated prior to each use. The decontamination protocol consisted of the following:

1. Disassemble sampler and scrub thoroughly withalconox/water solution. (Alternate procedure consisted of steam cleaning.)
2. Rinse with tap water.
3. Rinse with distilled/deionized water.
4. Rinse with 10% nitric acid solution (trace metal or higher grade HNO₃ diluted with distilled/deionized water).
5. Double rinse with deionized/distilled water.
6. Rinse with spectrographic grade acetone.
7. Rinse with Hexane.
8. Air dry.

6.1.6 LABORATORY ANALYSIS

All soil samples were collected by qualified Soil Mechanics field technicians in accordance with an established sampling protocol.

The soil samples selected for laboratory analysis were hand delivered to Ecotest Laboratories, Inc. (NYS certified laboratory), by Soil Mechanics personnel, in accordance with proper chain of custody procedures.

The soil samples were analyzed for volatile organics (VOC), priority pollutant heavy metals, and Total Petroleum Hydrocarbons (TPHC). Soil samples

B-130 and B-140 were screened in the field for PCB content. The preservation techniques, holding times, containerization, and laboratory methods for soil samples are described in Plate 4. ✓

6.1.7 MONITORING WELLS

Six (6) groundwater monitoring wells were installed, by Soil Mechanics Drilling Corporation, to assess groundwater quality at selected locations beneath the subject property. The monitoring wells were installed at boring locations identified as B-1 (MW-1), B-6 (MW-6), B-10 (MW-10), B-14 (MW-14), B-17 (MW-17), and B-20 (MW-20). The location of each monitoring well is shown in Plate 2 in Section 6.1.1. Monitoring well B-1 (MW-1) is designated as up-gradient (with respect to groundwater table gradient) background monitoring well. The remaining monitoring wells are designated on-site and/or down-gradient monitoring wells.

The boreholes for the monitoring wells were drilled using the hollow stem auger drilling technique (6-1/4 inch I.D.) and a truck-mounted drilling rig. The monitoring well specifications consist of 4" diameter PVC flush-joint casing, and 4" diameter slotted PVC well screen (See Plate 5). No glues or solvents were used during the construction of the monitoring wells. The well screens were placed approximately 10 feet below and 5 feet above the static water. The boreholes were back-filled with clean, washed gravel pack to two feet above the well screen. The gravel pack was followed by 1 foot of bentonite pellets. The remaining annular space was filled with clean sand to approximately 1 foot below the existing grade. The well heads were encased in access boxes secured in place with concrete at grade. Locking caps were installed upon completion of each well.

SOIL ANALYSIS

PLATE 4 PAGE 1 OF 2

<u>PARAMETER</u>	<u>LABORATORY METHOD</u>	<u>CONTAINERIZATION</u>	<u>PRESERVATION</u>	<u>MAXIMUM HOLDING TIME</u>
1. Volatile Organic Compounds	8010/8020	G, Teflon lined cap	Cool, 4 degrees C	7 days
<u>2. METALS</u>				
Antimony	7041	P, G	Cool, 4 degrees C	6 months
Arsenic	7061	P, G	Cool, 4 degrees C	6 months
Beryllium	7091	P, G	Cool, 4 degrees C	6 months
Cadmium	7131	P, G	Cool, 4 degrees C	6 months
Chromium	7191	P, G	Cool, 4 degrees C	6 months
Copper	7210	P, G	Cool, 4 degrees C	6 months
Lead	7421	P, G	Cool, 4 degrees C	6 months
Mercury	7471	P, G	Cool, 4 degrees C	28 days
Nickel	7520	P, G	Cool, 4 degrees C	6 months
Selenium	7741	P, G	Cool, 4 degrees C	6 months

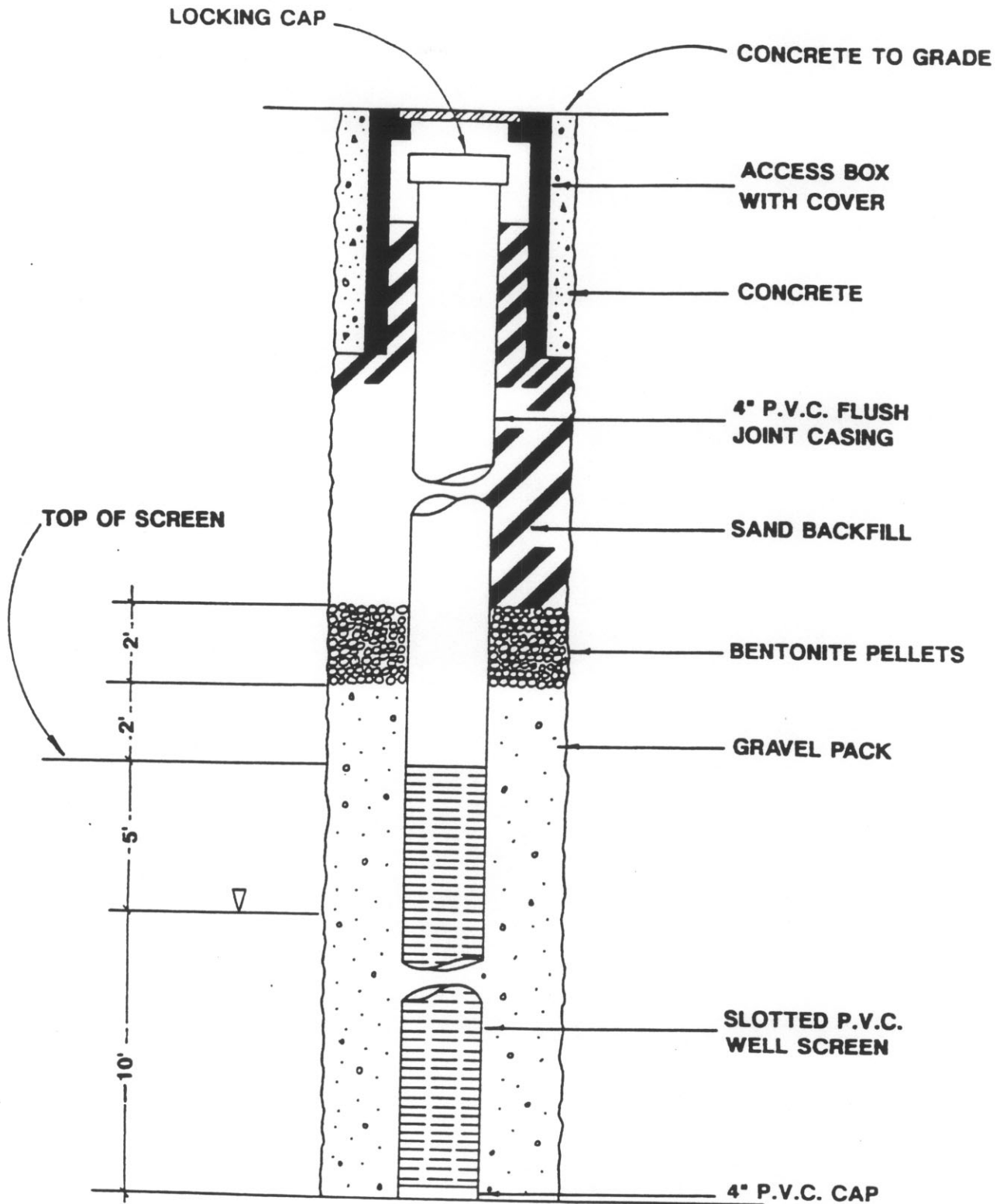
SOIL ANALYSIS

PLATE 4 PAGE 2 OF 2

PARAMETER	LABORATORY METHOD	CONTAINERIZATION	PRESERVATION	MAXIMUM HOLDING TIME
2. METALS (cont'd)				
Silver	7760	P, G	Cool, 4 degrees C	6 months
Thallium	7841	P, G	Cool, 4 degrees C	6 months
Zinc	7950	P, G	Cool, 4 degrees C	6 months
3. TPHC				
P - Polyethylene	418.1	500 ml glass	Cool, 4 degree C	28 days
G - Glass		teflon lined		

P - Polyethylene
G - Glass

TPHC - Total Petroleum Hydrocarbons



	SOIL MECHANICS DRILLING CORP. Subsoil Investigations 3770 MERRICK ROAD · SEAFORD, NEW YORK 11783 · 516 221-
MONITORING WELL SPECIFICATIONS	
THYPIN STEEL	
PORT WASHINGTON, N.Y.	

6.1.8 DECONTAMINATION

The hollow stem augers, drilling rods, drill bits, etc. were steam cleaned prior to use at each monitoring well location to prevent possible cross-contamination. The PVC well screen was steam cleaned prior to placement in each borehole. A clean working surface, consisting of plastic tarp, was provided at each location.

6.1.9 MONITORING WELL DEVELOPMENT

The groundwater monitoring wells were not developed for a period of at least one week after installation. This period was allocated to allow conditions within the aquifer to stabilize.

The groundwater monitoring wells were eventually developed by pumping with a stainless steel/teflon submersible pump at a rate of approximately 5 gpm for a period of 30 minutes or until the water was visibly clear. The submersible pump was decontaminated prior to use at each monitoring well location to prevent possible cross-contamination.

6.1.10 GROUNDWATER LEVEL MEASUREMENTS

Prior to measuring groundwater levels in the monitoring wells, the well head elevation of each monitoring well was determined. Measurements of depth to water (DTW) in each well were then taken using a conductivity water level probe with an audible signal. The information, presented in Plate 8 in Section 7.1.2, represents data collected in the field and utilized for the preparation of the groundwater contour map, and determination of the groundwater flow component. (See Plate 9 in Section 7.1.2.) It should be kept in mind that information presented in plates are subject to change with local tidal variations. The information represents data collected at a specific time and does not take into

consideration any variation over any length of time.

The groundwater monitoring wells were, however, designed to accommodate tidal influence to the groundwater table.

6.1.11 GROUNDWATER SAMPLING PROCEDURES

The groundwater monitoring wells were not sampled for a period of at least one week after development. This period was allocated to allow the stabilization of conditions within the aquifer.

The groundwater monitoring wells were sampled according to the following protocol:

1. Prior to sampling, depth to water (DTW) was determined in each monitoring well.
2. The volume of standing water was calculated.
3. The wells were purged, removing three to five (3-5) times the volume of standing water from each well, using a decontaminated stainless steel/teflon submersible pump.
4. Groundwater samples were collected using a properly decontaminated stainless steel bailer. (See decontamination protocol described in Section 6.1.5) The nylon rope used in conjunction with the bailer was dedicated to each well.
5. The groundwater samples were placed in appropriate containers, labeled, and refrigerated.

6.1.12 LABORATORY ANALYSIS

The groundwater samples were collected, by qualified Soil Mechanics field technician(s), in accordance with established sampling and decontamination protocols. The preservation techniques, holding times, containerization, and laboratory methods for the aqueous samples are described in Plate 6.

GROUNDWATER ANALYSIS

PLATE 6 (PAGE 1 OF 2)

PARAMETER	LABORATORY METHOD	CONTAINERIZATION	PRESERVATION	MAXIMUM HOLDING TIME
1. Volatile Organics Compounds	601/602	40 ml VOC bottle, teflon lined septum.	Cool, 4 degrees C (2 bottles should be obtained).	7 days
2. Total Petroleum Hydrocarbons	418.1	1 liter glass teflon lined cap.	Cool, 4 degrees C H ₂ SO ₄ to pH<2	28 days
3. <u>METALS</u>				
Antimony	7041	P,G	HNO ₃ to pH<2	6 months
Arsenic	206.3	P,G	HNO ₃ to pH<2	6 months
Beryllium	7091	P,G	HNO ₃ to pH<2	6 months
Cadmium	7131	P,G	HNO ₃ to pH<2	6 months
Chromium	7191	P,G	---	6 months
Copper	220.1	P,G	HNO ₃ to pH<2	6 months
Lead	7421	P,G	HNO ₃ to pH<2	6 months

GROUNDWATER ANALYSIS

PLATE 6 (PAGE 2 OF 2)

PARAMETER	LABORATORY METHOD	CONTAINERIZATION	PRESERVATION	MAXIMUM HOLDING TIME
Mercury	7470	P,G	HNO3 to pH<2	28 days
Nickel	249.1	P,G	HNO3 to pH<2	6 months
Selenium	270.3	P,G	HNO3 to pH<2	6 months
Silver	272.2	P,G	HNO3 to pH<2	6 months
Thallium	279.2	P,G	HNO3 to pH<2	6 months
Zinc	289.1	P,G	HNO3 to pH<2	6 months

3. METALS (cont'd)

The aqueous samples were hand delivered to Ecotest Laboratories, Inc., by Soil Mechanics personnel, in accordance with proper chain of custody procedures.

The samples were analyzed for volatile organics (VOC), priority pollutant heavy metals, and Total Petroleum Hydrocarbons (TPHC).

6.1.13 SOIL GAS/VAPOR PROBES

Vapor probes were installed to determine soil gas quality (organic vapor) at selected locations throughout the subject property. The vapor probe locations are identified as VP-1 through VP-32, VP-100 VP-110, and VP-120 as shown in ✓ Plate 7. The soil gas survey consisted of drilling a 1/2 inch diameter borehole approximately three to four (3-4) feet into the subsurface soil. A steel vapor probe was inserted into the borehole and evacuated to a negative pressure, thereby drawing soil gas from the pore space of the subsurface soil. The soil gas was analyzed in the field, using a Foxboro Century flame-ionization detector, Model OVA 128 GC. The results of the soil gas survey are presented in Plate 17 and ✓ Section 7.1.7. The vapor probes were decontaminated according to an established protocol prior to use at each location.

7.0 FINDINGS

7.1 INTRODUCTION

The findings presented in this report are based on observations made during the scope of this investigation and data provided by other sources. The subsurface soil and groundwater quality, at each test boring and monitoring well, are based upon a detailed sampling and analysis program that was formulated in accordance with accepted procedures for both sampling and laboratory analysis.

7.1.1 SOILS REPORT

The undisturbed native soils encountered at the subject property are documented as Riverhead-Enfield-Urban Land Complex as defined by the U.S.

Department of Agriculture, Soil Conservation Service (SCS), "Soil Survey of Nassau County, New York," published by the Nassau County Soil and Water Conservation District.

The Riverhead Series consists of deep, well-drained, moderately coarse textured soils that formed in a mantle of sandy loam or fine sandy loam over thick layers of coarse sand and gravel. Geomorphic association consists of rolling to steep glacial moraines and level to gently sloping outwash plains.

The Enfield Soil Series consists of very deep well-drained soils that formed in a mantle of eolian or water-laid deposits that overlie deposits of gravel and sand. The soils are found on the side of slopes and the top of outwashed plains.

The Urban Land Soil Series consists of very deep, well-drained soils that exist on nearly level or gently sloping areas that are covered by buildings, roads, sidewalks, and parking lots on plains and low hills.

The physical descriptions of the subsurface soil samples, presented in the boring logs, are based on visual inspection of the samples recovered during the drilling of the boreholes. The physical descriptions were made in accordance with the Unified Soil Classification. (See Boring logs in Appendix 2 for complete description.)

The eighteen (18) soil test borings drilled at the subject property encountered fill material consisting of sand, silt, and gravel, underlain by sand, trace silt and trace gravel. (See Boring logs in Appendix 2 for complete description.)

7.1.2 HYDROGEOLOGY

Groundwater was encountered under unconfined water table conditions in unconsolidated sand, silts, and gravel in the borings, at an average depth of 10 feet below existing grade. Groundwater level measurements taken in the monitoring wells and related information are presented in Plate 8. The

GROUNDWATER LEVEL MEASUREMENTS
IN MONITORING WELLS
THYPIN STEEL, PORT WASHINGTON, NEW YORK
PLATE 8

<u>WELL #</u>	<u>DATE</u>	<u>WELL HEAD ELEVATION (ft.)</u>	<u>DEPTH TO WATER (ft.)</u>	<u>WATER ELEVATION (ft.)</u>
B-1 (MW-1)	5-1-89	13.92	8.21	5.71 ✓
B-6 (MW-6)	5-1-89	13.00	8.05	4.95 ✓
B-10 (MW-10)	5-1-89	12.72	10.41	2.31 ✓
B-14 (MW-14)	5-1-89	12.55	10.11	2.44 ✓
B-17 (MW-17)	5-1-89	12.76	10.06	2.70 ✓
B-20 (MW-20)	5-1-89	13.56	10.28	3.28 ✓

groundwater contour map constructed from this data is presented in Plate 9. Current information suggests a general southwesterly groundwater flow component. This direction appears consistent with previous determination of groundwater flow components, based on regional groundwater contour maps.

The subject property is located on Hydrogeological Zone VIII as identified by the 1983 New York State Department of Environmental Conservation's Draft Long Island Groundwater Management Program (NYSGMP).

Zone VIII is generally defined as being "located on the north shore of Nassau and Suffolk Counties, with groundwater flowing towards harbors, bays, or to the Long Island Sound". (See Plate 10 - Water Management Zones in Nassau-Suffolk - 208 Study.)

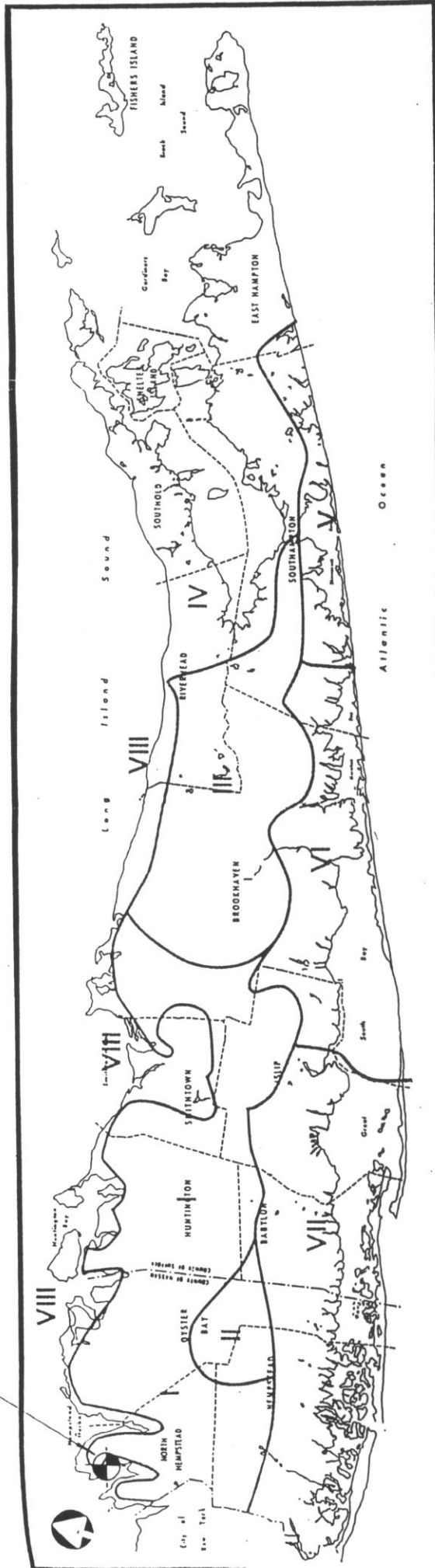
7.1.3 GROUNDWATER SUPPLY WELL INVENTORY

Soil Mechanics conducted an inventory of public potable water supply wells within a two (2) mile radius of the subject property. Public records indicate the existence of ten (10) public water supply wells, all of which pump water from either the Upper Glacial Aquifer, Magothy Aquifer, or the Lloyd Sand. There were no public water supply wells located within a three-quarter (3/4) mile radius of the subject property. The locations of the public supply wells are shown in Plate 11. The well specifications are presented in Plate 12.

7.1.4 SITE INSPECTION

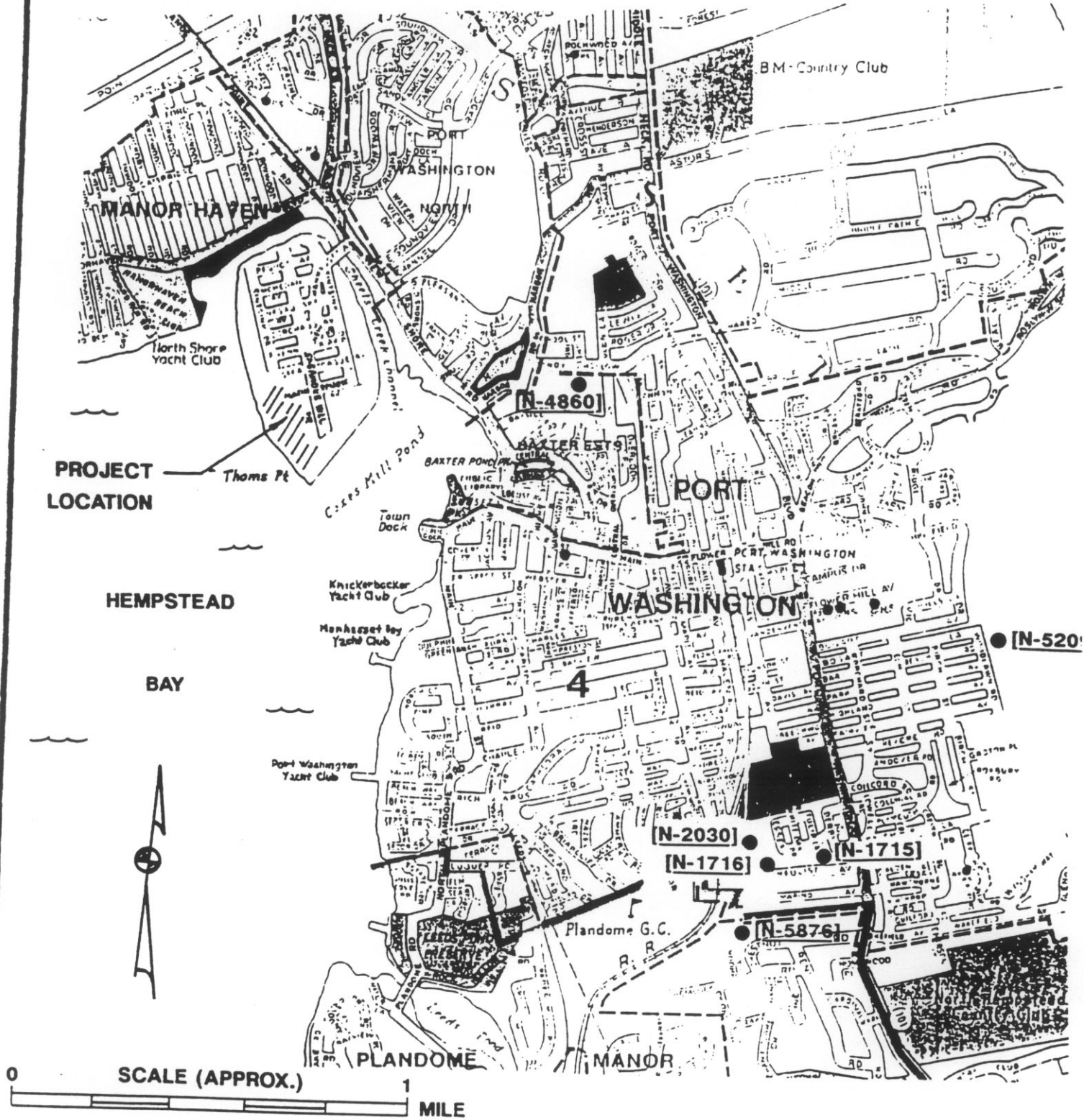
The following list represents an inventory of items, visually identified throughout the subject property, of potential environmental concern at the site. This inventory is, by no means, a definitive catalog of all such items. The list represents an overview, compiled within the limits of the scope of this investigation. See Plate 13 for zone location.

PROJECT LOCATION



WATER MANAGEMENT ZONES IN NASSAU AND SUFFOLK

Zone No.	Type of Location of System	System Characteristics
I	Deep Flow (Magothy recharge area)	Deep recharge with vertical flow.
II	Deep Flow (Magothy recharge area)	Area of substantially impaired groundwater quality.
III	Deep Flow (Magothy recharge area)	Higher grade reservoir. Exceptionally high quality water with high potential yield.
IV	North Fork and Eastern South Fork	Local water quality problems, but with potential for development, particularly on South Fork.
V	Western South Fork	As previous, but little agricultural input.
VI	Surface Water Impact Area	Polluted groundwater has major impact on surface water, due to long residence time in bay.
VII	South Shore Shallow Flow System	Generally shallow and horizontal flow.
VIII	North Shore Shallow Flow System	Generally shallow and horizontal flow.



● [N-1715] DENOTES WELL LOCATIONS

	SOIL MECHANICS DRILLING CORP. Subsoil Investigations 3770 MERRICK ROAD · SEAFORD, NEW YORK 11783 · 516 221-21	
		PUBLIC WATER SUPPLY WELLS
		THYPIN STEEL
		PORT WASHINGTON, N.Y.

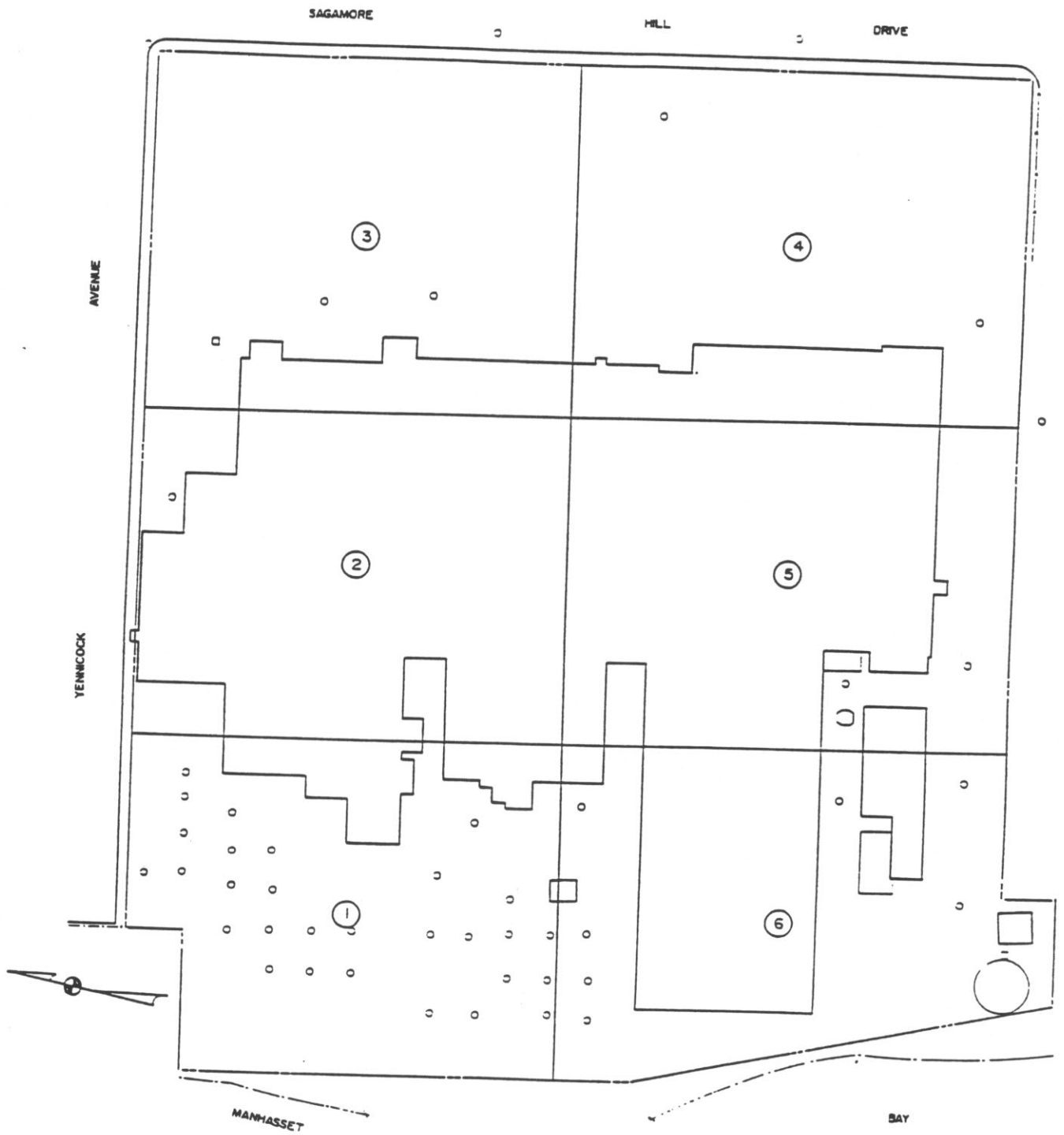
PUBLIC WATER SUPPLY WELL SPECIFICATIONS

PORT WASHINGTON DISTRICT

PLATE 12

<u>WELL #</u>	<u>DEPTH (FT.)</u>	<u>GALLONS PER MINUTE</u>	<u>SCREEN LENGTH (FT.)</u>	<u>AQUIFER</u>
N-1715	490	590	430-480	L
N-1716	483	550	425-475	L
N-2030	218	450	190-215	M
N-2052	325	750	275-325	M
N-4860	89	400	63-89	G
N-5209	293	400	260-93	M
N-5876	245	360	168-238	M
N-7551	473	1400	374-469	M
N-7552	458	1400	359-454	M
N-9809	527	1350	325-411	L

M - Magothy Aquifer
L - Lloyd Sand Aquifer
G - Upper Glacial Aquifer



ZONATION MAP

ZONE ONE

- 22 Empty laticrete drums
- 33 Empty soluble oil drums
- 15 Empty deoxidizer drums
- 44 dry wells (13 of the dry wells were uncovered and filled with trash, oil, wood, metals, empty cans)
- 3 Abandoned automobiles
- 1 Abandoned motor boat
- 1 Wood/concrete, launching ramp (total disrepair)
- Sparsely vegetated areas
- Factory related trash including: steel products, empty drums, concrete, wood, metal, plastics, roofing materials, fiberglass, etc.
- Miscellaneous dumping throughout the zone included: furniture, auto parts, common household trash
- Isolated areas of stained pavement and soil surfaces
- Newly cemented floor drain sump (located inside Utensco site, along western-most wall)
- Storage area for oakite acid drums (located along the western-most interior wall of Utensco site)

ZONE TWO

- Isolated areas of stained asphalt pavement and exposed surface soils
- Sparsely vegetated areas
- Miscellaneous dumping included: furniture, auto parts, etc.
- Four electrical transformers (operational, antiquated)

Utensco Building Interior (Zone Two)

- Storage rooms contained: fiberglass insulation products, eight (full) propane tanks, fifteen (empty) propane tanks, related factory equipment, office records, paper goods
- Boiler room (asbestos present)
- Production areas/storage areas/related equipment
- Two dry wells
- Office units
- Isolated storage area for 15 oakite acid drums (full)
- Isolated storage area for 10 hydraulic oil drums (full)
- Isolated storage area for 8 polyethylene drums (full)
- Isolated storage area for 12 III Trichloroethane drums (full)
- Plastic mold production area/related equipment/storage areas
- Operating heating unit
- Concrete slab flooring, good condition, with isolated stained areas

ZONE THREE

- Two truck bays (stained concrete pavement)
- Two storm drains (located in truck bays)
- Isolated storage area for empty drums (included III Trichloroethane and hydraulic oil drums)
- Drainage hose leading from plastic bins, in plastic production area, to storm drains in truck bays - informed by manager that this set-up is to drain rain water build-up
- Factory fuel oil tanks

EXTERIOR (ZONE THREE)

- Isolated piles of asphalt, rubbish, steel piping, steel girders
- Intermittent areas of stained surface soils
- Sparsely vegetated areas (poor condition)
- Isolated areas of oil-stained asphalt paved driveways/parking areas
- Four operating propane storage tanks
- Seven large (empty) propane gas cylinders
- One underground fuel storage tank
- Several empty ultralene (oil) drums
- Miscellaneous dumping throughout area included: two automobiles, one boat trailer, furniture, wood, steel scraps, building tiles, common household trash

ZONE FOUR

- Isolated piles of discarded asbestos, asphalt, steel debris (piping, girders, supports)
- Intermittent areas of stained surface soils (no vegetation in these areas)
- Asphalt paved driveways with isolated areas of staining
- Sparsely vegetated areas (poor condition)
- Several discarded ultralene oil drums
- Two trash receptacles (full)
- Miscellaneous dumping throughout area included: one automobile, one car battery, wood, metal, plastics, common household trash

ZONE FIVE

- Sparsely vegetated areas (poor condition)
- Asphalt paved driveway with isolated areas of staining

- Isolated piles of discarded steel included: piping, girders, etc.
- One trash receptacle
- Miscellaneous dumping throughout area included: one boat trailer, two automobiles, furniture, several soluble oil drums, common trash
- Thyphin warehouse/building contained:
 - Three electrical transformers (operational)
 - Empty storage rooms
 - Empty storage lockers
 - Grounds Keeper's Office
 - One dry-well with concrete surface pad (located opposite the electrical transformers)
 - One 55-gallon drum (overhead identification - radioactive wastes)

ZONE SIX

- Heating plant building included:
 - Five empty oil drums
 - Asbestos wrapped piping
 - One operating fuel pump
 - One empty propane tank
 - Discarded steel piping
 - Isolated areas of stained concrete
- Sparsely vegetated areas (poor condition)
- Abandoned pump house (asbestos present)
- Abandoned water tower
- Two partially above-ground fuel storage tanks (encased in concrete chamber possible asbestos present)
- One smaller storage tank (encased in concrete)
- Miscellaneous dumping throughout area included: two automobiles, fencing materials, furniture, auto parts, metal, wood, plastics, concrete, fiberglass, common trash
- Isolated piles of discarded steel included: piping, girders, etc.
- Warehouse building included:
 - Steel stockpiles and twelve (12) empty fifty-five gallon drums of anti-freeze
- Sewage pump station (total disrepair)

7.1.5 SOIL QUALITY

Twenty-two (22) soil samples were analyzed for volatile organics, priority pollutant heavy metal parameters, and Total Petroleum Hydrocarbons (TPHC). Sample B-130 and B-140 were analyzed for PCB's. Laboratory reports are included in Appendix 3.

The results of laboratory analysis of the soil samples, collected during the installation of the soil test borings, indicated the presence of low to moderate levels of the heavy metal parameters in samples B-1, B-2, B-3, B-4, B-5, B-7, B-8, B-9, B-11, B-13, B-15, B-16, B-17, B-18, B-19, B-20, B-21, and B-22 (See Plate 14).

Laboratory analysis of the grab samples indicated (See Plate 14): low levels of Antimony, Arsenic, and Beryllium in samples B-90, B-100, B-110, and B-120; (2) low to moderate levels of Cadmium in samples B-100, B-110, B-120, and elevated levels in B-90; (3) low to moderate levels of Chromium in samples B-90, B-100, B-120, and elevated levels in B-110; (4) low levels of Copper in samples B-100 and B-110, and elevated levels in B-90 and B-120; (5) low levels of Lead in sample B-100 and elevated levels in B-90, B-110, and B-120; (6) low to moderate levels of Mercury in samples B-90, B-100, B-110, and B-120; (7) low to moderate levels of Nickel in samples B-90, B-100, B-120, and elevated levels in B-110; (8) low levels of Selenium in samples B-90, B-100, B-110, and B-120; (9) moderate levels of Silver in samples B-110, B-120, and elevated levels in samples B-90 and B-100; (10) low levels of Thallium in samples B-90, B-100, B-110, and B-120; (11) moderate levels of Zinc in sample B-100 and elevated levels in samples B-90, B-110, and B-120.

The results of laboratory analysis of the soil samples, with respect to volatile organics (VOC), indicated (See Plate 15): (1) Methyl Chloride in sample B-4; (2) Tetrachloroethene in samples B-4, B-17, B-100, and B-120; (3) Benzene in sample B-22; (4) Toluene in samples B-21 and B-90; (5) Ethyl Benzene, m Xylene, and o + p Xylene in samples B-18 and B-90. No additional volatile organics were

SUMMARY OF LABORATORY ANALYTICAL RESULTS

HEAVY METALS and TOTAL PETROLEUM HYDROCARBONS (TPHC) IN SOIL

THYPIN STEEL, PORT WASHINGTON, NEW YORK

PLATE 14 (PAGE 1 OF 3)

	<u>B-1</u>	<u>B-2</u>	<u>B-3</u>	<u>B-4</u>	<u>B-5</u>	<u>B-7</u>	<u>B-8</u>	<u>B-9</u>
SB Antimony	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	0.080
7.5 Arsenic	0.56	0.52	1.0	3.0	0.58	0.32	0.89	0.89
0.116 Beryllium	0.11	0.070	0.21	0.13	0.15	0.11	0.15	0.21
1 Cadmium	0.040	<0.005	0.019	0.056	0.029	0.018	0.038	0.048
5.7 Chromium	3.1	2.9	9.0	3.0	4.6	4.7	3.9	9.1
2.5 Copper	3.5	3.0	6.5	3.8	3.8	4.7	4.3	6.5
5.00 Lead	1.8	0.80	1.8	8.5	1.0	1.5	1.3	2.0
0.1 Mercury	<0.005	<0.005	<0.005	0.005	<0.005	<0.005	0.005	0.005
1.3 Nickel	4.7	2.7	10	4.5	9.0	7.5	4.5	8.5
2 Selenium	<0.05	<0.05	<0.05	0.33	0.055	<0.05	0.17	0.067
5.5 Silver	0.10	0.05	0.15	0.05	0.10	0.25	0.10	0.20
5.5 Thallium	0.035	0.030	0.10	0.025	0.045	0.060	0.040	0.075
2.0 Zinc	25	6.0	19	13	48	9.0	16	19
TPHC	<16	<16	<16	19	<16	<16	<16	<16

Results in ppm

TPHC - Total Petroleum Hydrocarbons

THYPIN STEEL, PORT WASHINGTON, NEW YORK

PLATE 14 (PAGE 2 OF 3)

	<u>B-11</u>	<u>B-13</u>	<u>B-15</u>	<u>B-16</u>	<u>B-17</u>	<u>B-18</u>	<u>B-19</u>
Antimony	0.060	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050
Arsenic	0.83	1.0	0.56	0.93	0.80	0.62	1.1
Beryllium	0.19	0.22	0.060	0.17	0.11	0.10	0.13
Cadmium	0.026	0.20	<0.005	0.018	0.027	0.025	0.048
Chromium	6.5	7.2	2.6	5.2	4.7	2.5	6.5
Copper	7.0	7.5	3.4	4.7	4.8	3.7	4.5
Lead	1.5	2.2	2.7	2.0	1.6	1.7	1.4
Mercury	0.007	0.010	<0.005	<0.005	<0.005	<0.005	0.007
Nickel	10	10	3.5	5.7	7.7	2.7	6.0
Selenium	0.055	0.13	0.067	0.19	0.088	0.065	0.19
Silver	0.25	0.15	<0.05	0.10	0.10	0.05	0.10
Thallium	0.060	0.070	<0.025	0.085	0.060	<0.025	0.060
Zinc	12	38	8.0	12	36	29	14
TPHC	<16	<16	<16	20	300	<16	310

Results in ppm

TPHC - Total Petroleum Hydrocarbons

THYPIN STEEL, PORT WASHINGTON, NEW YORK

PLATE 14 (PAGE 3 OF 3)

	<u>B-20</u>	<u>B-21</u>	<u>B-22</u>	<u>B-90*</u>	<u>B-100</u>	<u>B-110*</u>	<u>B-120*</u>
Antimony	0.060	<0.050	<0.050	2.4	<0.050	<0.050	<0.20
Arsenic	1.1	0.71	0.86	4.3	2.2	5.6	5.1
Beryllium	0.23	0.22	0.15	0.040	0.13	0.12	0.12
Cadmium	0.12	0.37	0.017	7.0	0.19	1.7	2.1
Chromium	9.0	5.6	8.0	29	7.5	130	29
Copper	7.5	6.0	6.0	6200	20	17	620
Lead	1.9	3.0	2.0	360	8.5	130	310
Mercury	<0.005	0.015	<0.005	0.12	<0.005	0.049	0.045
Nickel	11	6.5	9.0	65	22	130	60
Selenium	0.065	0.12	0.065	0.17	0.20	0.16	0.51
Silver	0.15	0.15	0.15	5.0	2.8	1.6	1.1
Thallium	0.12	0.060	0.070	<0.025	<0.025	<0.025	0.090
Zinc	20	26	19	1500	100	860	1000
TPHC	<16	<16	<16	44000	140000	1100	620

Results in ppm

TPHC - Total Petroleum Hydrocarbons

* - Dry Well Locations

SUMMARY OF LABORATORY RESULTS

VOLATILE ORGANICS IN SOIL

THYPIN STEEL, PORT WASHINGTON, NEW YORK

PLATE 15 (PAGE 1 OF 3)

	<u>B-1</u>	<u>B-2</u>	<u>B-3</u>	<u>B-4</u>	<u>B-5</u>	<u>B-7</u>	<u>B-8</u>	<u>B-9</u>
Methyl Chloride	<10	<10	<10	10	<10	<10	<10	<10
Tetrachloroethene	<5	<5	<5	10	<5	<5	<5	<5
Benzene	<5	<5	<5	<5	<5	<5	<5	<5
Toluene	<10	<10	<10	<10	<10	<10	<10	<10
Ethyl Benzene	<5	<5	<5	<5	<5	<5	<5	<5
m Xylene	<10	<10	<10	<10	<10	<10	<10	<10
o + p Xylene	<20	<20	<20	<20	<20	<20	<20	<20

Results in ppb

SUMMARY OF LABORATORY RESULTS

VOLATILE ORGANICS IN SOIL

THYPIN STEEL, PORT WASHINGTON, NEW YORK

PLATE 15 (PAGE 2 OF 3)

	<u>B-11</u>	<u>B-13</u>	<u>B-15</u>	<u>B-16</u>	<u>B-17</u>	<u>B-18</u>	<u>B-19</u>	<u>B-20</u>	<u>B-21</u>
Methylene Chloride	<10	<10	<5	<10	<10	<10	<10	<10	<10
Tetrachloroethene	<5	<5	<5	<5	11	<5	<5	<5	<5
Benzene	<5	<5	<5	<5	<5	<5	<5	<5	<5
Toluene	<10	<10	<10	<10	<10	<10	<10	<10	15
Ethyl Benzene	<5	<5	<5	<5	<5	30	<5	<5	<5
m Xylene	<10	<10	<10	<10	<10	110	<10	<10	<10
o + p Xylene	<20	<20	<20	<20	<20	64	<20	<20	<20

Results in ppb

SUMMARY OF LABORATORY RESULTS
VOLATILE ORGANICS IN SOIL
THYPIN STEEL, PORT WASHINGTON, NEW YORK

PLATE 15 (PAGE 3 OF 3)

	<u>B-22</u>	<u>B-90</u>	<u>B-100</u>	<u>B-110</u>	<u>B-120</u>
Methylene Chloride	<10	<20	<10	<10	<10
Tetrachloroethene	<5	<10	11	<5	6
Benzene	26	<10	<5	<5	<5
Toluene	<10	170	<10	<10	<10
Ethyl Benzene	<5	610	<5	<5	<5
m Xylene	<10	86	<10	<10	<10
o + p Xylene	<20	1900	<20	<20	<20

Results in ppb

indicated above the laboratory reported detection limits of the requested analytical parameters.

Petroleum Hydrocarbons were detected in samples B-4, B-16, B-17, B-19, B-90, B-100, B-110, and B-120 (See Plate 14). No PCB's were indicated in samples B-130 and B-140.

7.1.6 HEAD SPACE ANALYSIS

The results of head space analysis, conducted on the soil samples collected from the soil test borings, indicated no detectable levels of organic vapor above the detection limits of the OVA. (See Plate 16, and Appendix 4.)

7.1.7 SOIL GAS SURVEY (VAPOR PROBES)

The results of the soil gas survey (vapor probes) indicated significant levels of organic vapor at vapor probe locations VP-4, VP-5, VP-7, VP-8, VP-9, VP-11, VP-12, VP-13, VP-14, VP-15, VP-17, VP-18, VP-19, VP-23, VP-25, VP-29, VP-30, and VP-31 (See Plate 17).

7.1.8 GROUNDWATER QUALITY

Six (6) groundwater samples were analyzed for volatile organics, priority pollutant heavy metals and Total Petroleum Hydrocarbons (TPHC). The results of laboratory analysis are summarized in Plates 18 and 19. Laboratory reports are included in Appendix 4.

The results of laboratory analysis of the groundwater samples indicated detectable concentrations (above the laboratory reported detection limits) of the following heavy metal parameters (See Plate 18): (1) Arsenic in sample MW-1; (2) Chromium in sample MW-10; (3) Lead in samples MW-1 and MW-20; (4) Zinc in samples MW-6, MW-10, MW-14, MW-17, and MW-20.

Volatile organics detected in the groundwater samples included (See Plate 19): (1) Chloroform in sample MW-6; (2) 111 Trichloroethane in samples MW-10, MW-17, and MW-20; (3) Carbon Tetrachloride in samples MW-6; (4)

HEAD SPACE ANALYSIS

SOIL TEST BORINGS - DEPTH (FT.)

THYPIN STEEL, PORT WASHINGTON, NEW YORK

PLATE 16 (PAGE 1 OF 2)

<u>SAMPLE#</u>	<u>0-2</u>	<u>2-4</u>	<u>4-6</u>	<u>6-8</u>	<u>8-10</u>	<u>10-12</u>	<u>15-17</u>	<u>17-19</u>
B-1	ND	ND	ND	ND	ND	--	--	--
B-2	ND	ND	ND	ND	ND	ND	--	--
B-3	ND	ND	ND	ND	ND	--	--	--
B-4	ND	ND	ND	ND	ND	--	--	--
B-5	ND	--	ND*	ND*	--	ND	--	--
B-7	ND	ND	ND	ND	ND	--	--	--
B-8	ND	ND	ND	ND	ND	--	--	--
B-9	ND	ND	ND	ND	ND	--	--	--
B-11	ND	ND	ND	ND	ND	--	--	--
B-13	ND	ND	ND	ND	ND	--	--	--
B-15	ND	ND	ND	ND	ND	--	--	--
B-16	ND	ND	ND	ND	ND	--	--	--
B-17	ND	ND	ND	ND	ND	ND	ND	--
B-18	ND	ND	ND	ND	ND	ND	ND	--
B-19	ND	ND	ND	ND	ND	--	--	--

HEAD SPACE ANALYSIS

SOIL TEST BORINGS - DEPTH (FT.)

THYPIN STEEL, PORT WASHINGTON, NEW YORK

PLATE 16 (PAGE 2 OF 2)

<u>SAMPLE#</u>	<u>0-2</u>	<u>2-4</u>	<u>4-6</u>	<u>6-8</u>	<u>8-10</u>	<u>10-12</u>	<u>15-17</u>	<u>17-19</u>
B-20	ND	ND	ND	ND	ND	--	--	--
B-21	ND	ND	ND	ND	ND	ND	ND	ND
B-22	ND	ND	ND	ND	ND	--	--	--
B-24	ND	ND	ND	ND	ND	ND	--	--

ND - Not Detected

Instrument - OVA Foxboro Century OVA 128 GC

* Accomodates 5-7 range

SOIL GAS SURVEY

VAPOR PROBES

THYPIN STEEL, PORT WASHINGTON, NEW YORK

PLATE 17 - PAGE 1 OF 2

<u>VAPOR PROBE IDENTIFICATION</u>	<u>DATE</u>	<u>DEPTH (FT)</u>	<u>DETECTION RANGE</u>	<u>DETECTED CONCENTRATION</u>
VP-1	4/12/89	3-4	1-10	N D
VP-2	4/12/89	3-4	1-10	N D
VP-3	4/12/89	3-4	1-10	N D
VP-4	4/12/89	3-4	1-10	6
VP-5	4/12/89	3-4	1-10	5
VP-6	4/12/89	3-4	1-10	N D
VP-7	4/12/89	3-4	1-10	4
VP-8	4/12/89	3-4	10-100	35
VP-9	4/12/89	3-4	1-10	5
VP-10	4/12/89	3-4	1-10	N D
VP-11	4/12/89	3-4	100-1000	100
VP-12	4/12/89	3-4	10-100	70
VP-13	4/12/89	3-4	1-10	5
VP-14	4/12/89	3-4	1-10	5
VP-15	4/12/89	3-4	10-100	70
VP-16	4/12/89	3-4	1-10	N D
VP-17	4/12/89	3-4	10-100	25
VP-18	4/12/89	3-4	1-10	8
VP-19	4/12/89	3-4	10-100	10
VP-20	4/12/89	3-4	1-10	N D
VP-21	4/12/89	3-4	1-10	N D
VP-22	4/12/89	3-4	1-10	N D
VP-23	4/12/89	3-4	10-100	10

SOIL GAS SURVEY

VAPOR PROBES

THYPIN STEEL, PORT WASHINGTON, NEW YORK

PLATE 17 - PAGE 2 OF 2

<u>VAPOR PROBE IDENTIFICATION</u>	<u>DATE</u>	<u>DEPTH (FT)</u>	<u>DETECTION RANGE</u>	<u>DETECTED CONCENTRATION</u>
VP-24	4/12/89	3-4	1-10	N D
VP-25	4/12/89	3-4	10-100	20
VP-26	4/20/89	3-4	1-10	N D
VP-27	4/20/89	3-4	1-10	N D
VP-28	4/20/89	3-4	1-10	N D
VP-29	4/20/89	3-4	10-100	10
VP-30	4/20/89	3-4	10-100	20
VP-31	4/20/89	3-4	1-10	5
VP-32	4/20/89	3-4	1-10	N D
VP-100	4/20/89	3-4	1-10	N D
VP-110	4/20/89	3-4	1-10	N D
VP-120	4/20/89	3-4	1-10	N D

N D - Not Detectable

Concentration in ppm

Instrument - Foxboro Century Flame-Ionization Detector Model OVA 128GC

SUMMARY OF ANALYTICAL RESULTS

HEAVY METALS IN GROUNDWATER

THYPIN STEEL

PORT WASHINGTON, NEW YORK

PLATE 18

select limit too high

	<u>MW-1</u>	<u>MW-6</u>	<u>MW-10</u>	<u>MW-14</u>	<u>MW-17</u>	<u>MW-20</u>
0.003 Antimony	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
0.025 Arsenic	0.003	<0.002	<0.002	<0.002	<0.002	<0.002
0.003 Beryllium	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
0.010 Cadmium	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
0.050 Chromium	<0.005	<0.005	0.017	<0.005	<0.005	<0.005
0.200 Copper	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02
0.025 Lead	0.006	<0.005	<0.005	<0.005	<0.005	0.015
0.002 Mercury	<0.00025	<0.00025	<0.00025	<0.00025	<0.00025	<0.00025
^{mcl} 0.100 Nickel	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10
0.010 Selenium	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002
0.050 Silver	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
0.004 Thallium	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
0.300 Zinc	<0.02	0.05	0.02	0.07	0.05	0.06

Results in ppm

SUMMARY OF LABORATORY ANALYTICAL RESULTS

VOLATILE ORGANICS IN GROUNDWATER

THYPIN STEEL, PORT WASHINGTON, NEW YORK

PLATE 19

		<u>MW-1</u>	<u>MW-6</u>	<u>MW-10</u>	<u>MW-14</u>	<u>MW-17</u>	<u>MW-20</u>
Chloroform	7	<1	6	<1	<1	<1	<1
111 Trichloroethane	5	<1	<1	2	<1	2	3
Carbon Tetrachloride	5	<1	3	<1	<1	<1	<1
Trichloroethylene	5	<1	24	11	10	<1	2
Tetrachloroethene	5	<1	150	<1	3	3	7
13 Dichlorobenzene	5	<2	<2	<2	2	<2	<2
12 Dichlorobenzene	4.7	<2	<2	<2	3	<2	<2
14 Dichlorobenzene	4.7	<2	<2	<2	4	<2	<2

Results in ppb (ug/l)

TOTAL PETROLEUM HYDROCARBONS (TPHC)

TPHC	<0.4	<0.4	<0.4	<0.4	<0.4	<0.4
------	------	------	------	------	------	------

Results in ppm (mg/l)

Trichloroethylene in samples MW-6, MW-10, MW-14, and MW-20;
(5) Tetrachloroethene in samples MW-6, MW-14, MW-17, and MW-20;
(6) 12 Dichlorobenzene, 13 Dichlorobenzene, and 14 Dichlorobenzene in sample MW-14. There were no additional volatile organics indicated above the laboratory reported detection limits of the requested analytical parameters. Petroleum Hydrocarbons (TPHC) were not detected above the laboratory reported detection limits in any of the samples.

7.1.9 RADIATION SURVEY

A geiger counter (Technical Associates TA Model PUG1AB) was used to determine background radiation levels, and to investigate the nature of the contents of a 55-gallon drum with overhead identification indicating radio-active waste. Background readings, taken in the front and rear (leaching field area) of the property, indicated between 20-30 counts per minute (CPM). Readings taken in the courtyard area and in close proximity of the suspected 55-gallon drum indicated between 60-70 cpm.

Conversation with the grounds keeper (Thypin employee) indicated that the overhead identification was not valid and was simply that of a hoax by former employees.

8.0 CONCLUSIONS AND RECOMMENDATIONS

The following is a summary of the findings presented above, and the conclusions and recommendations resulting from observations made during the scope of this investigation and information provided by others. The conclusions and recommendations represent our best judgement using available information. The conclusions and recommendations are subject to change should any additional data become available.

8.1 Laboratory analysis indicated the presence of low to elevated levels of heavy metals in the soil samples collected at selected locations within the site.

Presently, there are no New York State regulatory guidelines with respect to heavy metal concentrations in soils. As such, we have compared the existing concentrations to background concentrations found to occur naturally in native soils and representative site specific background concentrations (soil sample B-1). In the absence of NYS regulatory guidelines, we have also compared the existing concentrations to New Jersey Department of Environmental Protection (NJDEP) guidelines. The existing low to moderate heavy metal concentrations are considered to be within the range of magnitude found to occur naturally in native soils and are also correlative to site specific background concentrations. These concentrations do not pose an environmental concern at the subject property. Elevated levels of heavy metals are considered to exceed the range of magnitude found to occur naturally in native soils, on-site background concentrations, and approach or exceed current NJDEP guidelines. The elevated levels of heavy metals are considered to represent a potential source of environmental concern at the property, and might also be viewed as a high priority by a regulatory agency. Current information indicates that the existing elevated heavy metal concentrations are associated primarily with soil samples collected from dry well locations.

Based on this information, we recommend that additional investigative activities be conducted to ascertain the nature of the content at additional dry well locations throughout the site.

8.2 Petroleum Hydrocarbons were detected in borehole locations B-4, B-16, B-17, B-19, B-90, B-100, B-110, and B-120 at concentrations ranging from 19 to 140,000 ppm. The existing concentrations represent low to elevated levels of soil contamination. Currently, there are no established New York State regulatory guidelines with respect to TPHC in soils. The NYSDEC has unofficially indicated, in situations such as this, it reviews each site on an individual basis taking into consideration any possible threat to human health, the environment, and the nature and extent of existing contamination. In the absence of New York State

regulatory guidelines, we have made comparisons to the New Jersey Department of Environmental Protection (NJDEP) guidelines requiring cleanup of soil containing TPHC concentrations greater than 100 ppm. With this in mind, we consider the TPHC concentrations in soil samples B-17, B-19, B-90, B-100, B-110 and B-120 to represent a potential source of environmental concern at the site. The soil samples collected from dry well locations, again, stand out as containing significant contaminant concentrations, in this particular case, petroleum hydrocarbons. Other soil samples containing TPHC concentrations represent locations that were suspected or revealed physical characteristics of petroleum hydrocarbon contaminants.

Although it is difficult to pinpoint the exact source(s) of the existing contamination, it could potentially be attributed to a wide variety of sources that might include waste oil spillage and dumping, fuel oil spillage, motor and transmission oil drippings associated with parked vehicles, etc.

Numerous other locations throughout the site were also suspected or were observed to contain characteristics suggestive of petroleum hydrocarbon contaminants. It should be noted, however, that it was not within the scope of this investigation to sample all such locations nor was it the intent to determine all potential sources or the extent of any existing contamination.

Recommendations for soil cleanup cannot be presented solely on the basis of detected concentrations of contaminants. Definitive information, regarding the extent in both plan dimension and depth, would be required to make a more accurate assessment as to the nature and extent of the existing contamination. We, therefore, recommend that additional subsurface investigative activities be conducted, with particular attention to dry well locations, to obtain a better understanding of petroleum hydrocarbon contamination throughout the site.

8.3 Volatile organics were detected in soil samples B-4, B-17, B-18, B-22, B-90, B-100, and B-120. Volatile organic constituents included Methylene Chloride, Tetrachloroethylene, Benzene, Toluene, Ethyl Benzene, m Xylene, and o + p

Xylene. These substances represent solvents, degreasers and constituents of gasoline. Current guideline concentration, for total volatile organics in soil, range from 1-10 ppm. Total concentrations of volatile organics in the samples are below or within acceptable guideline concentrations.

Although it is difficult to pin-point the exact source(s) of existing contamination, the occurrence of these substances at various locations are considered to represent areas that have been subjected to dumping, spillage and or storage of such substances.

While most of the existing concentrations might be considered a low to moderate priority, attention should be directed to dry well, drum storage and work areas that have been observed to contain materials that could impact upon the environmental quality of the site.

8.4 Laboratory analysis indicated the presence of detectable concentrations of heavy metals in groundwater samples MW-1, MW-6, MW-10, MW-14, MW-17, and MW-20. All of the existing concentrations are within current New York State water quality standards and guidelines. As such, the detected concentrations do not pose an environmental concern at the subject property.

8.5 Volatile organic constituents were detected in groundwater samples MW-6, MW-10, MW-14, MW-17, and MW-20. All of the reported concentrations (except Tetrachloroethene in sample MW-6) are within current New York State guidelines. Total concentrations of volatile organics in samples MW-10, MW-14, MW-17, and MW-20 are below 100 parts per billion (ppb). The detected concentration of Tetrachloroethene (150 ppb) exceeds the current guideline of 50 ppb. Petroleum Hydrocarbons (TPHC) were not detected above the laboratory reported detection limit at any of the monitoring well locations.

The presence of volatile organics at various locations may be attributed to a variety of sources including potential off-site, up-gradient sources. Most of these substances are considered to be industrial solvents and degreasers that were likely

to have been introduced into the groundwater by storage, spillage, and dumping on porous surface materials and soil. Another likely means of introduction to the groundwater would be through discharges to dry wells. Although no volatile organics or petroleum hydrocarbons were detected (within the limits of the requested parameters) at up-gradient location B-1 (sample MW-1), this does not exclude potential up-gradient off-site sources from impacting upon the groundwater quality beneath the site. Up-gradient monitoring well location B-1 represents a single location along the entire up-gradient perimeter and by no means, enables a definitive assessment of the quality of groundwater flowing onto the subject property. Most of the existing concentrations of the detected volatile organics are considered low, and are not likely to be viewed as high priority by a regulatory agency. It should be noted, however, that III Trichloroethane, Trichloroethylene, and Tetrachloroethene, were detected in a number of monitoring well locations. Somewhat elevated concentrations of Tetrachloroethene were also reported in sample MW-6. The occurrence of these substances at monitoring well locations, throughout the site, could be viewed as suggesting a number of different contaminant source points and/or the effects of lateral dispersion action. The relatively high concentrations of Tetrachloroethene in sample MW-6 may suggest the existence of a pocket of volatile organic contaminants.

8.6 A radiation survey indicated significantly higher readings near a suspected 55-gallon drum, with overhead identification indicating radio-active waste, then at two (2) other background locations on the site.

Although there does not appear to be an immediate hazard, the variations are considered to be significant and warrant consideration towards additional investigation to determine the nature and subsequent proper disposal of the material contained in the drum, should it be determined to present a hazard.

8.7 Visual inspection of the site indicated the presence of existing underground and partially above-ground fuel storage tanks. Subsurface investigation conducted in the vicinity of these storage tanks did not indicate any significant signs of contamination. It should be kept in mind, however, that the age of the tanks and the nature of the surrounding environment warrants consideration for additional investigation, to determine the integrity of the tanks and the presence of any contamination that may have resulted from defective or leaky conditions. We, therefore, recommend that all the existing underground fuel storage tanks and fill lines be leak tested. Additional test borings, test pits, and laboratory analysis should also be considered as part of a secondary investigation.

8.8 Visual inspection of the interior contents of numerous dry wells, particularly those in the leaching field, located in the rear of the property, indicated significant dumping of a variety of materials. While it was only possible to visually observe the surficial materials, laboratory analysis of selected soil samples indicated significant levels of heavy metal, petroleum hydrocarbon, and volatile organic contamination.

The introduction of most of these materials is likely to be attributed to routine dumping of facility generated wastes that became a common practice on or about the time of the leaching field abandonment. Utilization of the leaching field, for its intended purpose, was discontinued with the construction and operation of an on-site sewage pumping station. The pumping station later became the subject of investigation by various county and local regulatory agencies. Visual evidence appeared to indicate recent discharges to some of the dry wells.

Visual and chemical evidence suggests that a broad spectrum of materials have been discharged or dumped into many of the dry wells throughout the site. It is our belief, that the elevated concentrations of contaminants, detected at selected dry well locations, pose a potential source of environmental concern at the

site. Furthermore, visual evidence suggests that similar contamination may also exist at numerous other dry well locations. The elevated levels of the contaminants may be viewed as a high priority, by a regulatory agency, particularly since the site is located in an environmentally sensitive area.

We therefore recommend, that additional subsurface investigations be conducted to determine the nature of the contents, within additional dry well locations throughout the site. A secondary investigation would include soil borings and test pits, monitoring wells, and laboratory analysis of soil and groundwater samples. Data collected during this investigation would enable a more comprehensive assessment of the overall existing conditions and the development of a remediation program.

Carl Vernick, P.E.

DISCLAIMER

These findings presented in this report are based on observations made during the course of this investigation and information provided by others. The conclusions derived from this data are limited to those areas detailed in the study and represent our best judgement using that information.

APPENDIX 1



TESTING MECHANICS CORP.

ASBESTOS TESTING AND MONITORING

3770 Merrick Rd. Seaford LI New York 11783 (516) 221-3800

LAB. NO.: 89-01007

**REPORT OF ASBESTOS INSPECTION
FOR
SOIL MECHANICS
3770 MERRICK ROAD
SEAFORD, NEW YORK 11783
AT**

**UTENSCO/THYPIN STEEL
YENNICOCK AVENUE
PT. WASHINGTON, NEW YORK**

APRIL 25, 1989



TESTING MECHANICS CORP.
ASBESTOS TESTING AND MONITORING
3770 Merrick Rd. Seaford LI New York 11783 (516) 221-3800

LAB. NO.: 89-01007

TABLE OF CONTENTS

<u>SECTION</u>		<u>PAGE</u>
1.0	INTRODUCTION	1
2.0	SITE DESCRIPTION	1
3.0	PROCEDURES	2-3
4.0	DEFINITIONS	4-5
5.0	RESULTS	6-19
6.0	DISCUSSION OF RESULTS	20
7.0	DISCLAIMER	21
8.0	CERTIFICATIONS AND SIGNATURES	22



TESTING MECHANICS CORP.

ASBESTOS TESTING AND MONITORING

3770 Merrick Rd. Seaford LI New York 11783 (516) 221-3800

LAB. NO.: 89-01007

CLIENT: Soil Mechanics
3770 Merrick Road
Seaford, New York 11783
Attention: Carl Vernick

SUBJECT: Asbestos Inspection

P.O. #: Pending

INSPECTION DATE: March 20, 21, 22, 1989

1.0 INTRODUCTION:

Testing Mechanics Corp. conducted an inspection for asbestos containing materials (ACM) at Utensco/Thypin Steel, Yennicoek Avenue, Port Washington, New York.

The inspection included of all interior areas of the buildings.

2.0 SITE DESCRIPTION:

At the time of this survey, Utensco and Thypin Steel occupied a main building and associated smaller buildings comprising this investigation. The buildings were of wood frame or brick construction. Piping was abundant and insulated. The effects of age, weather, fire and neglect were apparent on all the building materials.



TESTING MECHANICS CORP.
ASBESTOS TESTING AND MONITORING

3770 Merrick Rd. Seaford LI New York 11783 (516) 221-3800

LAB. NO.: 89-01007

- 3.0 PROCEDURES: - continued
- 3.1 Field Procedures: - continued
- 3.1.5 Floor Tile
Inspectors may or may not sample all types of floor tile in the building. Unless otherwise requested, only predominant floor tile types will be sampled. This material, unless severely damaged by water or other means, is not considered friable. Carpeted areas should be assumed to have asbestos containing floor tile underneath the carpeting. Unless otherwise requested, inspection underneath carpeting will not be performed in order to preserve the integrity of the carpeting.
- 3.1.6 Roofing Material
Roofing material should be assumed to contain asbestos. Inspectors may or may not sample roofing materials of the facility. Unless otherwise requested, so as to preserve the integrity of the material, inspection and sampling of roofing material will not be performed.
- 3.1.7 After the completion of each inspection day, the inspectors fill out a chain of custody form for the samples that were collected. The samples are turned over to the laboratory for logging in and subsequent analysis. The investigators organize the paper work that was generated that day, and file it in the appropriate file for subsequent report generation.
- 3.2 Laboratory Procedures:
- 3.2.1 Laboratory analysis of suspected materials was performed by Polarized Light Microscopy in accordance with "EPA Interim Method for the Determination of Asbestos in Bulk Insulation Samples" (EPA-600/M4-82-020). A modified method of the aforementioned is used when analysis is required of non-friable materials.



TESTING MECHANICS CORP.

ASBESTOS TESTING AND MONITORING

3770 Merrick Rd. Seaford LI New York 11783 (516) 221-3800

LAB. NO.: 89-01007

4.7 Space Numbering System

A numbering system has been developed by the New York State Education Department to be used when numbering individual spaces. A five-digit number will be used to identify each space. These five digits are described below.

Digit 1: This represents the floor, or level, of the building where the space is located, with #1 meaning the lowest level and higher levels being numbered consecutively.

Digits 2, 3, and 4: Each individual space on each floor plan would be numbered consecutively beginning with 001. This would allow for 999 spaces per each level of each building.

Digit 5: This is an alpha character rather than a number. The letter follows the 2, 3, and 4 digits used to designate the space from which the service area is accessible:

A = Spaces above suspended ceilings

B = Pipe spaces

C = Other



TESTING MECHANICS CORP.

ASBESTOS TESTING AND MONITORING

3770 Merrick Rd. Seaford LI New York 11783 (516) 221-3800

LAB. NO.: 89-01007

5.0 RESULTS:

5.1 Table 1 - Homogeneous Material Summary

The Homogeneous Material Summary is a listing of all homogeneous areas considered suspect by the inspectors. It does not distinguish between asbestos and non-asbestos containing areas.

A homogeneous area is considered not to contain ACM only if the results of all samples collected from the area show asbestos in amounts of 1 percent or less.

A homogeneous area is determined to contain ACM based on a finding that the results of at least on sample collected from the area shows that asbestos is present in an amount greater than 1 percent.



TESTING MECHANICS CORP.
ASBESTOS TESTING AND MONITORING
 3770 Merrick Rd. Seafoard LI New York 11783 (516) 221-3800

LAB. NO.: 89-01007

TABLE 1
HOMOGENEOUS MATERIAL SUMMARY

BUILDING NAME AND ADDRESS:

Utensco/Thypin Steel
 Yennicoch Avenue
 Pt. Washington, New York

Homogeneous Material ID. NO.	Material Description	Friable	Material Type *	Asbestos Presence	
				Confirmed Pos. Neg.	Assumed Pos.
01	Hot Water Tank Insulation	Yes	T	x	-
02	Magnesia Pipe Wrap	Yes	T	x	-
03	Fan Insulation	Yes	T	x	-
04	Sheetrock	No	M	<1	-
05	Fan Gasket	Yes	M	-	-
06	VAT	No	M	x	x
07	1 x 1 Ceiling Tile with Uniform Holes	Yes	M	-	-
08	Ceiling Tile Glue	No	M	-	-
09	Linoleum Tile	No	M	x	-
10	2 x 2 Smooth Ceiling Tile	Yes	M	-	-
11	White Aircell Pipe Wrap	Yes	T	x	-
12	Corrugated Panels	No	M	x	-

* Refers to Material Types as Follows:

S = Surfacing T = Thermal M = Miscellaneous Pos. = Positive Neg. = Negative

TABLE 1
HOMOGENEOUS MATERIAL SUMMARY

BUILDING NAME AND ADDRESS:

Utensco/Thypin Steel
 Yennicock Avenue
 Pt. Washington, New York

Homogeneous Material ID. NO.	Material Description	Friable	Material Type *	Confirmed		Asbestos Presence	
				Pos.	Neg.	Confirmed Pos.	Assumed Pos.
13	Brown Layered Pipe Wrap	Yes	T	x	-	-	-
14	Vinyl Wall Covering	Yes	M	x	-	-	-
15	Brick Style Shingles	Yes	M	x	-	-	-
16	1 x 1 Ceiling Tile with Regular Holes	Yes	M	-	x	-	-
17	Attic Ceiling Sheetrock	No	M	-	x	-	-
18	Cinderblock and Mortar	No	M	-	x	-	-
19	Brick and Mortar	No	M	x	-	-	-
20	Foundation Cement	No	M	<1	-	-	-
21	Steel Plant Ceiling Material	No	M	-	x	-	-
22	Transite	No	M	-	-	-	x

* Refers to Material Types as Follows:

S = Surfacing T = Thermal M = Miscellaneous Pos. = Positive Neg. = Negative



TESTING MECHANICS CORP.

ASBESTOS TESTING AND MONITORING

3770 Merrick Rd. Seaford LI New York 11783 (516) 221-3800

LAB. NO.: 89-01007

5.0 **RESULTS: - Continued**

5.2 **Table 2 - Asbestos Containing Material Location Summary**

The A.C.M Location Summary identifies and gives the location and approximate amount of all asbestos containing materials. Non-asbestos materials are not included in this summary.



TESTING MECHANICS CORP.
ASBESTOS TESTING AND MONITORING
3770 Merrick Rd. Seafoord LI New York 11783 (516) 221-3800

LAB. NO.: 89-01007

TABLE 2
ASBESTOS CONTAINING MATERIAL LOCATION SUMMARY

BUILDING NAME AND ADDRESS:

Utensco/Thypin Steel
Yennicock Avenue
Pt. Washington, New York

Location	Asbestos Containing Material	Approximate Amount
1001	Water Tank Insulation	100 Square Feet
1001	Magnesia Pipe Wrap	110 Linear Feet
1001	Fan Insulation	400 Square Feet
1001	Fan Gasket	10 Square Feet
1002	Vinyl Tile	130 Square Feet
1002-1014 (above ceiling)	Magnesia Pipe Wrap, White Aircell Pipe Wrap and Brown Layered Pipe Wrap	650 Linear Feet
1003	Vinyl Tile	112 Square Feet
1004	Vinyl Tile	125 Square Feet



**TESTING MECHANICS CORP.
ASBESTOS TESTING AND MONITORING**

3770 Merrick Rd. Seaford LI New York 11783 (516) 221-3800

LAB. NO.: 89-01007

**TABLE 2
ASBESTOS CONTAINING MATERIAL LOCATION SUMMARY**

BUILDING NAME AND ADDRESS:

Utensco/Thypin Steel
Yennicock Avenue
Pt. Washington, New York

Location	Asbestos Containing Material	Approximate Amount
1005	Vinyl Tile	54 Square Feet
1006	Vinyl Tile	85 Square Feet
1007	Vinyl Tile	34 Square Feet
1008	Vinyl Tile	99 Square Feet
1008 (in wall)	Magnesia Pipe Wrap	8 Linear Feet
1009	Vinyl Tile	117 Square Feet
1010	Vinyl Tile	285 Square Feet
1010	Magnesia Pipe Wrap	10 Linear Feet



TESTING MECHANICS CORP.
ASBESTOS TESTING AND MONITORING
3770 Merrick Rd. Seaford LI New York 11783 (516) 221-3800

LAB. NO.: 89-01007

TABLE 2
ASBESTOS CONTAINING MATERIAL LOCATION SUMMARY
BUILDING NAME AND ADDRESS:

Utensco/Thypin Steel
Yennicock Avenue
Pt. Washington, New York

Location	Asbestos Containing Material	Approximate Amount
1011	Vinyl Tile	385 Square Feet
1011 (in wall)	Magnesia Pipe Wrap	18 Linear Feet
1012	Vinyl Tile	96 Square Feet
1013	Vinyl Tile	170 Square Feet
1015	Vinyl Tile	165 Square Feet
1016	Vinyl Tile (assumed under carpet)	1232 Square Feet
1017	Magnesia Pipe Wrap	26 Linear Feet
1018	Magnesia Pipe Wrap	20 Linear Feet
1020	Vinyl Tile (assumed under carpet)	244 Square Feet
1029	Magnesia Pipe Wrap	40 Linear Feet



TESTING MECHANICS CORP.
ASBESTOS TESTING AND MONITORING
3770 Merrick Rd. Seaford LI New York 11783 (516) 221-3800

LAB. NO.: 89-01007

TABLE 2
ASBESTOS CONTAINING MATERIAL LOCATION SUMMARY
BUILDING NAME AND ADDRESS:

Utensco/Thypin Steel
Yennicock Avenue
Pt. Washington, New York

Location	Asbestos Containing Material	Approximate Amount
1030	Magnesia Pipe Wrap, White Aircell Pipe Wrap	85 Linear Feet
1031	Vinyl Tile	150 Square Feet
1031	Magnesia Pipe Wrap	110 Linear Feet
1032	Vinyl Tile (assumed under linoleum)	150 Square Feet
1032(above ceiling)	Magnesia Pipe Wrap	15 Linear Feet
1033	Vinyl Tile	692 Square Feet
1033	Magnesia Pipe Wrap and White Aircell	130 Linear Feet
1033(above ceiling)	Magnesia Pipe Wrap	40 Linear Feet
1034(behind access door)	White Aircell Pipewrap	1-15 Linear Feet

TABLE 2
ASBESTOS CONTAINING MATERIAL LOCATION SUMMARY

BUILDING NAME AND ADDRESS:

Utensco/Thypin Steel
 Yennicock Avenue
 Pt. Washington, New York

Location	Asbestos Containing Material	Approximate Amount
1034A(file storage area)	Vinyl Tile	776 Square Feet
1034A	Magnesia Pipe Wrap and White Aircell Pipe Wrap	128 Linear Feet
1035	White Aircell Pipe Wrap	10 Linear Feet
1036	Magnesia Pipe Wrap	4833 Linear Feet
1036	Fan Gasket	10 Square Feet
1036	Fan Insulation	200 Square Feet
1036	Corrugated Panelling	1350 Square Feet
1036A(raised office area)	Vinyl Tile	300 Square Feet
1037	Magnesia Pipe Wrap, Brown Layered Pipe Wrap	170 Linear Feet



TESTING MECHANICS CORP.
ASBESTOS TESTING AND MONITORING
3770 Merrick Rd. Seaford LI New York 11783 (516) 221-3800

LAB. NO.: 89-01007

TABLE 2
ASBESTOS CONTAINING MATERIAL LOCATION SUMMARY

BUILDING NAME AND ADDRESS:

Utensco/Thypin Steel
Yennicock Avenue
Pt. Washington, New York

Location	Asbestos Containing Material	Approximate Amount
1040	Vinyl Wall Covering in Dock Area	300 Square Feet
1040	Magnesia Pipe Wrap	50 Linear Feet
1040	Brick-Style Shingles	1600 Square Feet
1041	Brick-Style Shingles	1500 Square Feet
1041	Magnesia Pipe Wrap	550 Linear Feet
1042	Brick-Style Shingles	400 Square Feet
1042	Magnesia Pipe Wrap	250 Linear Feet
1043	Vinyl Tile	1400 Square Feet
1044	Magnesia Pipe Wrap	15 Linear Feet
1044	Brick-Style Shingles	600 Square Feet



TESTING MECHANICS CORP.
ASBESTOS TESTING AND MONITORING
3770 Merrick Rd. Seaford LI New York 11783 (516) 221-3800

LAB. NO.: 89-01007

TABLE 2
ASBESTOS CONTAINING MATERIAL LOCATION SUMMARY
BUILDING NAME AND ADDRESS:

Utensco/Thypin Steel
Yennicock Avenue
Pt. Washington, New York

Location	Asbestos Containing Material	Approximate Amount
1045	Magnesia Pipe Wrap	80 Linear Feet
1046	Brick-Style Shingle	420 Square Feet
1046	Magnesia Pipe Wrap	785 Linear Feet
1047	Magnesia Pipe Wrap	600 Linear Feet
1048	Magnesia Pipe Wrap	300 Linear Feet
1048	Water Tank Insulation	80 Square Feet
1049	Magnesia Pipe Wrap	250 Linear Feet
1050	Magnesia Pipe Wrap	1000 Linear Feet



TESTING MECHANICS CORP.
ASBESTOS TESTING AND MONITORING
3770 Merrick Rd. Seaford LI New York 11783 (516) 221-3800

LAB. NO.: 89-01007

TABLE 2
ASBESTOS CONTAINING MATERIAL LOCATION SUMMARY
BUILDING NAME AND ADDRESS:

Utensco/Thypin Steel
Yennicock Avenue
Pt. Washington, New York

Location	Asbestos Containing Material	Approximate Amount
1052 (in pipe chase)	Magnesia Pipe Wrap	5 Linear Feet
1054	Magnesia Pipe Wrap and White Aircell Pipe Wrap	3940 Linear Feet
1054	Transite	3000 Square Feet
1055	White Aircell Pipe Wrap Magnesia Pipe Wrap	165 Linear Feet
1055	Fan Insulation	Indeterminate
1056	Magnesia Pipe Wrap	120 Linear Feet
1057	Magnesia Pipe Wrap	10 Linear Feet

TABLE 2
ASBESTOS CONTAINING MATERIAL LOCATION SUMMARY

BUILDING NAME AND ADDRESS:

Utensco/Thypin Steel
 Yennicoek Avenue
 Pt. Washington, New York

Location	Asbestos Containing Material	Approximate Amount
1059	Water Tank Insulation	64 Square Feet
1059	Magnesia Pipe Wrap and White Aircell Pipe Wrap	250 Linear Feet
1060	White Aircell Pipe Wrap and Magnesia Pipe Wrap	150 Linear Feet
1061	White Aircell Pipe Wrap	150 Linear Feet
1062	Magnesia Pipe Wrap	100 Linear Feet
1063	White Aircell Pipe Wrap and Magnesia Pipe Wrap	2540 Linear Feet
1063	Vinyl Tile	2450 Square Feet



TESTING MECHANICS CORP.
ASBESTOS TESTING AND MONITORING
3770 Merrick Rd. Seafoord LI New York 11783 (516) 221-3800

LAB. NO.: 89-01007

TABLE 2
ASBESTOS CONTAINING MATERIAL LOCATION SUMMARY

BUILDING NAME AND ADDRESS:

Utensco/Thypin Steel
Yennicoch Avenue
Pt. Washington, New York

Location	Asbestos Containing Material	Approximate Amount
1064	White Aircell Pipe Wrap and Magnesia Pipe Wrap	80 Linear Feet
2001	Transite	1000 Square Feet
2001	White Aircell Pipe Wrap and Magnesia Pipe Wrap	772 Linear Feet
2002	Transite	1000 Square Feet
2002	Vinyl Tile	4475 Square Feet
2002	White Aircell Pipe Wrap and Magnesia Pipe Wrap	1006 Linear Feet



**TESTING MECHANICS CORP.
ASBESTOS TESTING AND MONITORING**

3770 Merrick Rd. Seaford LI New York 11783 (516) 221-3800
6.0 DISCUSSION OF RESULTS:

LAB. NO.: 89-01007

The following materials were analyzed and found to contain asbestos in amounts of one percent or greater:

Water Tank Insulation
Magnesia Pipe Wrap
Fan Insulation
Vinyl Floor Tile
White Aircell Pipe Wrap
Corrugated Panelling
Brown Layered Pipe Wrap
Vinyl Wall Covering*

The following materials were analyzed and found to contain asbestos in less than one percent. The USEPA defines these materials as non-asbestos containing. Other definitions may vary (example: New York State Department of Education).

Sheetrock
Brick-style Shingles
Brick and Mortar
Foundation

The fan gaskets and transite board were assumed to be asbestos containing. All other materials sampled were determined to be non-asbestos containing.

All asbestos containing materials were severely damaged. The majority of the thermal insulation inside the structure was falling off and the pipe wrap outside was mostly eroded away by weather. Discarded corrugated panelling was found randomly outside on the grounds.

Several areas were inaccessible and a determination of asbestos presence could not be made. These areas include the roof, the water storage tank, the fuel storage tanks and piperuns existing behind sheetrock walls. Evidence of asbestos existed at the site of the fuel storage tanks and should be assumed to be present if these tanks are removed. Amounts of asbestos were visible insulating piperuns extending between the walls but cannot be accurately determined until the sheetrock is removed.

Amounts of vinyl wall covering cannot be accurately determined.



TESTING MECHANICS CORP.

ASBESTOS TESTING AND MONITORING

3770 Merrick Rd. Seaford LI New York 11783 (516) 221-3800

LAB. NO.: 89-01007

7.0 DISCLAIMER

This report is for your exclusive use and is only to be used as a guide in determining the presence and condition of Asbestos-Containing Materials in the subject premises and condition Materials in the subject premises at the time of inspection.

This report is based solely upon a visual inspection and sampling of the premises where accessible at the time inspection was performed and makes no determinations with respect to portions of the premises which were not tested.

Testing Mechanics Corp. assumes no liability with respect to your compliance with local, state, or federal statutes, regulations, or rules. This report sets forth relevant excerpts from manuals published by the EPA; however, Testing Mechanics Corp. assumes no responsibility for the credibility and comprehensiveness of said excerpted material or future modifications of same.

Testing Mechanics Corp. assumes no liability for the use of this report by any other person or entity than the customer for whom it has been prepared. Any and all liability on the part of Testing Mechanics Corp. shall be limited solely to the cost of this survey report. Testing Mechanics Corp. shall have no liability for any other damages, whether consequential, compensatory, punitive, or special, arising out of, incidental to, or as a result of, this report.

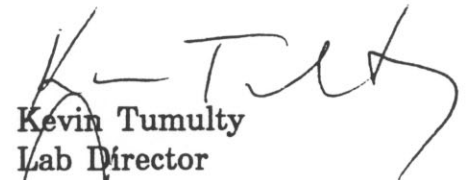


8.0 CERTIFICATIONS AND SIGNATURES


We certify that this report is a true and authentic report of results obtained from our tests.

Respectfully submitted,

TESTING MECHANICS CORP.



Kevin Tumulty
Lab Director



Carl Vernick, P.E.
President

ds



**TESTING MECHANICS CORP.
ASBESTOS TESTING AND MONITORING**

3770 Merrick Rd. Seaford LI New York 11783 (516) 221-3800

LAB. NO.: 89-01007

APPENDIX A

LABORATORY RESULTS



**TESTING MECHANICS CORP.
ASBESTOS TESTING AND MONITORING**

3770 Merrick Rd. Seaford LI New York 11783 (516) 221-3800

LABORATORY RESULTS

Method: EPA-600/M4-82-020 / Polarized Light Microscopy

IDENTIFYING INFORMATION:

PROJECT NAME: Utensco/Thypin Stell
CLIENT: Soil Mechanics

PROJECT NO.: 1007
LAB. NO.: 89-01007

SAMPLE ORIGINATION:

SAMPLING AGENCY: Testing Mechanics Corp.
SAMPLING SITE: Yennicock Avenue, Pt. Washington, New York
NO. OF SAMPLES: Fourteen (14)

SAMPLING DATE: 03/20/89
DATE ANALYZED: 04/11/89

RESULTS:

Sample ID	Sample Identification	Asbestos Content (% by wt.)	Asbestos Type	Other Components
01-01	1001-Water Tank Insulation	45	Chrysotile	Cementitious Binder
02-02	1001-Magnesia Pipe Wrap	5	Crocidolite	Mineral Wool, Cementitious Binder
03-03	1001-Fan Insulation	60	Chrysotile	Cementitious Binder, Polymer
04-04	1002-Sheetrock	10	Amosite	Cellulose, Cementitious Binder
07-05	1003-1 x 1 Ceiling Tile with Uniform Holes	35	Chrysotile	Cellulose, Paint, Cementitious Binder
08-06	1003-Ceiling Tile Glue	<1	Chrysotile	Cellulose, Polymer
06-07	1003-Vinyl Asbestos Tile	ND	----	Cementitious Binder, Silicates
06-08	1011-Vinyl Asbestos Tile	2	Chrysotile	Cementitious Binder, Silicates
08-09	1010-Ceiling Tile Glue	2	Chrysotile	Cellulose, Polymer
07-10	1011-1 x 1 Ceiling Tile with Uniform Holes	ND	----	Cellulose, Cementitious Binder, Paint
09-11	1018-Linoleum Tile	ND	----	Cellulose, Polymer,
10-12	1021-2 x 2 Smooth Ceiling Tile	ND	----	Cementitious Binder, Silicates
09-13	1021-Linoleum Tile	ND	----	Cellulose, Cementitious Binder, Pain'
11-14	1030-White Aircell Pipe Wrap	5	Chrysotile	Cellulose, Polymer, Cementitious Binder, Silicates Cellulose, Cementitious Binder

TESTING MECHANICS CORP.
ASBESTOS TESTING AND MONITORING
 3770 Merrick Rd. Seafood LI New York 11783 (516) 221-3800

LABORATORY RESULTS

Method: EPA-600/M4-82-020 / Polarized Light Microscopy

IDENTIFYING INFORMATION:

PROJECT NAME: Utensco/Thypin Stell
 CLIENT: Soil Mechanics

PROJECT NO.: 1007
 LAB. NO.: 89-01007

SAMPLE ORIGINATION:

SAMPLING AGENCY: Testing Mechanics Corp.
 SAMPLING SITE: Yennicock Avenue, Pt. Washington, New York
 NO. OF SAMPLES: Seven (7)

SAMPLING DATE: 03/21/89
 DATE ANALYZED: 04/11/89

Sample ID	Sample Identification	Asbestos Content (% by wt.)	Asbestos Type	Other Components
12-15	1036-Corrugated Panels on Loader	85	Chrysotile	Cementitious Binder
12-16	1036-Corrugated Panels on Loader	85	Chrysotile	Cementitious Binder
13-17	1036-Brown Layered Pipe Wrap	10	Chrysotile	Cellulose, Cementitious Binder
14-18	1040-Vinyl Wall Covering	1	Chrysotile	Cellulose, Polymer,
15-19	1040-Brick Style Wall Shingles	ND	---	Cementitious Binder
16-20	1043-1 x 1 Ceiling Tile with Irregular Holes	ND	---	Cellulose, Polymer, Paint
17-21	2001-Attic Ceiling Sheetrock	ND	---	Cementitious Binder
				Cellulose, Paint,
				Cementitious Binder
				Cellulose, Plaster

ND = NONE DETECTED



TESTING MECHANICS CORP.
ASBESTOS TESTING AND MONITORING

3770 Merrick Rd. Seaford LI New York 11783 (516) 221-3800

LABORATORY RESULTS

Method: EPA-600/M4-82-020 / Polarized Light Microscopy
 IDENTIFYING INFORMATION:

PROJECT NAME: Utensco/Thyphin Stell
 CLIENT: Soil Mechanics

SAMPLE ORIGINATION:

SAMPLING AGENCY: Testing Mechanics Corp.
 SAMPLING SITE: Yennicock Avenue, Pt. Washington, New York
 NO. OF SAMPLES: Fifteen (15)

PROJECT NO.: 1007
 LAB. NO.: 89-01007

SAMPLING DATE: 03/22/89
 DATE ANALYZED: 04/11/89

Sample ID	Sample Identification	Asbestos Content (% by wt.)	Asbestos Type	Other Components
12-22	Corrugated Panelling-Outside	85	Chrysotile	Cementitious Binder
18-23	1054-Cinder & Mortar	ND	----	Silicates, Cementitious Binder
19-24	1055-Brick & Mortar	1	Chrysotile	Silicates, Cementitious Binder
11-25	1059-White Aircell Pipe Wrap	35	Chrysotile	Cellulose, Cementitious Binder
15-26	1056-Brick Style Shingle	1	Chrysotile	Cellulose, Silicates, Cementitious Binder
14-27	1036-Vinyl Wall Covering Over Corrugated Decking	35	Chrysotile	Cellulose, Cementitious Binder, Polymer, Silicates
02-28	1059-Magnesia Pipe Wrap	50	Chrysotile	Cementitious Binder
01-29	1059-Water Tank Insulation	10	Amosite	
		45	Chrysotile	
		10	Amosite	
20-30	1059-Foundation Cement	<1	Chrysotile	
20-31	1057-Foundation Cement	ND	----	Cementitious Binder, Silicates
19-32	1054-Brick & Mortar	ND	----	Cementitious Binder, Silicates
15-33	1050-Brick Style Shingle	ND	----	Cementitious Binder, Silicates, Cellulose, Cementitious Binder, Silicates
18-34	1050-Cinder & Mortar	ND	----	Silicates, Cementitious Binder
21-35	1054-Ceiling Material (Steel Plant)	ND	----	Cellulose, Silicates, Cementitious Binder
06-35	1063-Vinyl Asbestos Tile	1	Chrysotile	Cementitious Binder, Silicates

ND = NONE DETECTED



TESTING MECHANICS CORP.
ASBESTOS TESTING AND MONITORING
3770 Merrick Rd. Seaford LI New York 11783 (516) 221-3800

LAB. NO.: 89-01007

APPENDIX B

CHAIN OF CUSTODY RECORDS



TESTING MECHANICS CORP.
ASBESTOS TESTING AND MONITORING
 3770 Merrick Rd. Seaford LI New York 11783 (516) 221-3800

09 / 01

CHAIN OF CUSTODY RECORD

CLIENT: <u>Soil Mechanics</u>		ADDRESS: <u>3770 Merrick Rd, Seaford LI</u>		CONTACT: <u>Carl Vernick</u>	
LAB NO. <u>89-01007</u>		SAMPLE LOCATION (Address): <u>Yennicoct Ave, Manhasset</u>		TEL: <u>221-2333</u>	
Outside Services Project Name		Project Number		ANALYSIS	
		<u>Survey day 1</u>		ASBESTOS PCM	
Sample I.D. No.		Time		ASBESTOS PLM	
Date Collected		No. of Containers		ASBESTOS TEM	
Sample Identification		Project Phase		OTHER (Specify)	
				REMARKS	
				ADDITIONAL REQUIREMENTS (METHOD)	
<u>01-01</u>	<u>3/20/91</u>	<u>01</u>	<u>1001 - H₂O tank insulation</u>	<u>X</u>	
<u>02-02</u>			<u>1001 - magnesia pipe wrap</u>	<u>X</u>	
<u>03-03</u>			<u>1001 - fan insulation</u>	<u>X</u>	
<u>04-04</u>			<u>1002 - sheetrock</u>	<u>X</u>	
<u>07-05</u>			<u>1003 - 1x1 ceiling tile with uniform holes</u>	<u>X</u>	
<u>08-06</u>			<u>1003 - ceiling tile glue</u>	<u>X</u>	
<u>06-07</u>			<u>1003 - VAT</u>	<u>X</u>	
<u>06-08</u>			<u>1011 - VAT</u>	<u>X</u>	
<u>08-09</u>			<u>1010 - ceiling tile glue</u>	<u>X</u>	
<u>07-10</u>			<u>1011 - 1x1 ceiling tile with uniform holes</u>	<u>X</u>	
<u>09-11</u>			<u>1018 - linoleum tile</u>	<u>X</u>	
<u>10-12</u>			<u>1021 - 2x2 smooth ceiling tile</u>	<u>X</u>	
<u>09-13</u>			<u>1021 - linoleum tile</u>	<u>X</u>	
<u>11-14</u>	<u>↓</u>	<u>↓</u>	<u>1030 - white arcell pipe wrap</u>	<u>X</u>	
Requisitioned by (Signature): <u>[Signature]</u>		Date/Time: <u>3/22</u>		Date/Time: <u>3/22 PM</u>	
Printed Name: <u>APPRINE</u>		Agent of: <u>TMC</u>		Agent of: <u>LYON KUBIC</u>	
Requisitioned by (Signature):		Date/Time:		Date/Time:	
Printed Name:		Agent of:		Agent of:	
Requisitioned by (Signature):		Date/Time:		Date/Time:	
Printed Name:		Agent of:		Agent of:	
Requisitioned by (Signature):		Date/Time:		Date/Time:	
Printed Name:		Agent of:		Agent of:	
Sampler (Signature): <u>[Signature]</u>		Date/Time:		Date/Time:	
Printed Name: <u>Kendall Prince</u>		Agent of: <u>Kendall Prince</u>		Agent of: <u>John Ziff</u>	
Sampler Name (Print): <u>Kendall Prince</u>		Date/Time:		Date/Time:	
Printed Name: <u>Kendall Prince</u>		Agent of: <u>Kendall Prince</u>		Agent of: <u>John Ziff</u>	



TESTING MECHANICS CORP.
ASBESTOS TESTING AND MONITORING
 3770 Merrick Rd. Seaford LI New York 11783 (516) 221-3800

1 of 1

CHAIN OF CUSTODY RECORD

CLIENT: Soil Mechanics		ADDRESS: 3770 Merrick Rd, Seaford NY		CONTACT: Carl Vernick		
LAB NO. 89-01007		SAMPLE LOCATION (Address) Utensco/Thyoin Steel		TEL: 221-2333		
Outside Services Project Name		Project Number		Project Phase		
		Survey day 2				
Sample I.D. No.	Date Collected	Time	No of Containers	Sample Identification	ANALYSIS	REMARKS
13-15	3/21/98		01	collected parts on loader - 1036	ASBESTOS PCM	
13-16				" "	ASBESTOS TEM	
13-17				1036 - brown layered pipe wrap	ASBESTOS PLM	
14-18				1040 - vinyl wall covering	OTHER (Specify)	
15-19				1040 - brick style wall shingles		
16-20				1013 - 1x1 CT with irregular tiles		
17-21				2001 - attic ceiling sheetrock		
Relinquished by (Signature) <i>[Signature]</i>		Date/Time 3:22 PM		Agent of: TMC		
Printed Name Prince				Date/Time 3/22 9:41		
Relinquished by (Signature) <i>[Signature]</i>		Date/Time		Agent of:		
Printed Name						
Relinquished by (Signature)		Date/Time		Agent of:		
Printed Name						
Relinquished by (Signature)		Date/Time		Agent of:		
Printed Name						
Sampler (Signature) <i>[Signature]</i>		Date/Time		Agent of:		
Printed Name Remball Prince						
Sampler Name (Print)		Date/Time		Agent of:		
Printed Name John Ziti						
Remarks:		Date/Time		Agent of:		



TESTING MECHANICS CORP.
ASBESTOS TESTING AND MONITORING
3770 Merrick Rd. Seaford LI New York 11783 (516) 221-3800

LAB. NO.: 89-01007

APPENDIX C

BUILDING FLOOR PLAN

The building floor plan depicts the building as it existed at the time of inspection and the space ID numbers assigned to each area (see Section 4.7). Table 2 summarizes the areas containing ACM using these space ID numbers.

APPENDIX 2

COMPACTION RELATED TO SPOON BLOWS PER FOOT

SAND		SILT & CLAY	
LOOSE	15 OR LESS	SOFT	10 OR LESS
MEDIUM	16 TO 39	MEDIUM	11 TO 29
DENSE	40 OR MORE	HARD	30 OR MORE

" N "

STANDARD PENETRATION TEST (2" SPOON, 140lb HAMMER, 30" FALL)



N=17 BLOWS
PER FOOT

SPOON BLOW COUNT IS GENERALLY SHOWN IN 6" INCREMENTS FOR 2' DRIVE TO OBTAIN BLOWS PER FOOT (N) USE THE 2ND & 3RD 6" INCREMENT

	ROTARY CASING	EXTRA HEAVY CASING	SAMPLE SPOON
SIZES, INCHES			2.0
HAMMER WEIGHT, POUNDS	—		140
HAMMER FALL, INCHES	—		30

CB - CASING BLOWS PER 1 FOOT DRIVE
 SB - SPOON BLOWS PER 6 INCH DRIVE
 P - PUSHED BY WEIGHT OF HAMMER

UD - UNDISTURBED SOIL SAMPLE
 NO - SAMPLE NUMBER
 FEET - DEPTH FROM GND. SUR. NOTED AT EACH 5'

THIS REPORT IS SUBMITTED WITH THE SPECIFIC UNDERSTANDING THAT THE SOLE LIABILITY OF SOIL MECHANICS DRILLING CORP., ITS ENGINEERS AND EMPLOYEES, FOR ERRORS AND OMISSIONS IS LIMITED TO THE AMOUNT OF THE FEE PAID FOR THIS REPORT. THE USE OF THIS REPORT WILL CONSTITUTE AN ACCEPTANCE BY THE CLIENT OF THIS DISCLAIMER. THE FEE CHARGED FOR THIS REPORT IS PREDICATED UPON THIS LIMITATION OF LIABILITY WHICH IS THE ESSENCE OF THIS AGREEMENT. IF THESE TERMS ARE NOT ACCEPTABLE, CLIENT MUST NOTIFY SOIL MECHANICS DRILLING CORP. IN WRITING BY CERTIFIED MAIL, RETURN RECEIPT REQUESTED, WITHIN FIVE (5) DAYS. SOIL MECHANICS DRILLING CORP., ITS ENGINEERS AND EMPLOYEES DO NOT ACCEPT ANY LIABILITY OR RESPONSIBILITY FOR PERSONS OTHER THAN THE CLIENT FOR WHOM THIS WORK WAS DIRECTLY PREPARED AND ANY SUCH PERSON, FIRM OR CORPORATION RELIES ON THIS REPORT AT HIS OWN RISK.

NOTES

Soil descriptions are by visual examination of soil samples recovered during drilling operations.
 Soil descriptions are in accord with the Unified Soils Classification system.
 Ground water was measured inside the drill casing at the completion of each borehole.
 Elevations shown are tied to Plan supplied by Client.

SOIL MECHANICS DRILLING CORP.

subsoil investigations

3770 MERRICK ROAD · SEAFORD, NEW YORK 11783 · 516 221 - 2333

THYPIN STEEL

SUBSURFACE INVESTIGATION

PORT WASHINGTON, NEW YORK

VERTICAL BORING SCALE:

DRAWING DATE:

DRAWING NUMBER

DATES OF BORINGS:
3/13-19/89

REVISED:

89S01918

SHEET 1 OF 20

UNIFIED SOIL CLASSIFICATION

SOIL GROUPS	TYPICAL NAMES AND SOIL SYMBOLS	
GW	WELL GRADED GRAVELS, GRAVEL SAND MIXTURES, LITTLE OR NO FINES	
GP	POORLY GRADED GRAVELS OR GRAVEL SAND MIXTURES, LITTLE OR NO FINES	
GM	SILTY GRAVELS, GRAVEL - SAND - SILT MIXTURE	
GC	CLAYEY GRAVELS, GRAVEL - SAND - CLAY MIXTURE	
SW	WELL GRADED SANDS, GRAVELLY SANDS, LITTLE OR NO FINES	
SP	POORLY GRADED SANDS OR GRAVELLY SANDS, LITTLE OR NO FINES	
SM	SILTY SANDS, SAND - SILT MIXTURES	
SC	CLAYEY SANDS, SAND - CLAY MIXTURES	
ML	INORGANIC SILTS, VERY FINE SANDS, CLAYEY SILTS, SLIGHT PLASTICITY	
CL	INORGANIC CLAYS OF LOW TO MEDIUM PLASTICITY, GRAVELLY CLAYS SANDY CLAYS, SILTY CLAYS	
OL	ORGANIC SILTS AND ORGANIC SILTY CLAYS OF LOW PLASTICITY	
MH	INORGANIC SILTS, MICACEOUS OR DIATOMACEOUS FINE SANDY OR SILTY SOILS, ELASTIC SILTS	
CH	INORGANIC CLAYS OF HIGH PLASTICITY, FAT CLAYS	
OH	ORGANIC CLAYS OF MEDIUM TO HIGH PLASTICITY, ORGANIC SILTS	
Pt	PEAT AND OTHER HIGHLY ORGANIC SOILS	

ALLOWABLE SOIL BEARING PRESSURES, N.Y.C. BLDG. CODE C26-1103

CLASS OF MATERIAL	DESCRIPTION	ALLOWABLE BEARING TONS/SQ. FT.
1 - 65	HARD SOUND ROCK _____	60
2 - 65	MEDIUM HARD ROCK _____	40
3 - 65	INTERMEDIATE ROCK _____	20
4 - 65	SOFT ROCK _____	8
5 - 65	HARDPAN _____	8 - 12
6 - 65	GRAVEL AND GRAVEL SOILS (SOIL GROUPS GW, GP, GM & GC AND GROUPS SW, SP & SM CONTAINING MORE THAN 10% GRAVEL)	4 - 10
7 - 65	SANDS (OTHER THAN FINE SANDS) (SOIL GROUPS SW, SP & SM BUT CONTAINING NOT MORE THAN 10% GRAVEL)	3 - 6
8 - 65	FINE SAND _____	2 - 4
9 - 65	CLAYS AND CLAY SOILS (SOIL GROUPS SC, CL & CH)	
	HARD _____	(5 MAX)
	MEDIUM _____	(2 MAX)
	SOFT _____	BY TEST
10 - 65	SILTS AND SILT SOILS (SOIL GROUPS ML & MH)	
	DENSE _____	3
	MEDIUM _____	1.5
	LOOSE _____	BY TEST

SOIL MECHANICS DRILLING CORP.

SUBSOIL INVESTIGATIONS

3770 MERRICK ROAD • SEAFORD, L. I., NEW YORK 11783

JOB LOCATION: Port Wash. New York	BORING #	B-1	GROUND WATER OBSERVATION		
DATE: 3/14/89			DATE	TIME	DEPTH
DRILLER:			_____	_____	10'0"
INSPECTOR:			_____	_____	_____
ENGINEER:			_____	_____	_____
TYPE RIG:	SURFACE ELEVATION: 13.92		_____	_____	_____

DEPTH BELOW SURFACE	SAMPLE NUMBER	BLOWS PER 6" ON SAMPLER		CASING BLOWS PER FT.	DESCRIPTION	SYMBOL	REMARKS
		0-6	6-12				
0							
1		4	5		SAND, SILT, GRAVEL, (FILL) (11-65)		
2		5	6				
3		4	6				
4		6	7				
5		4	3				
6		2	1				
7		5	6		Brown Silty Fine Sand (Fill?) (SM)		
8		6	5				
9		8	7				
10		9	10				
11		2	1				
12		5	6				
13					Brown Sand Trace Silt (SP) (8-65)		
14							
15							
16							
17							
18							
19		9	10		END 32'		
20		13	14				
21							
22							
23							
24							
25					END 32'		
26							
27							
28							
29							
30							
31					END 32'		
32							
33							
34							
35							
36							
37					END 32'		
38							
39							
40							
41							
42							

SOIL MECHANICS DRILLING CORP.

SUBSOIL INVESTIGATIONS

3770 MERRICK ROAD • SEAFORD, L. I., NEW YORK 11783

JOB LOCATION: PORT WASH.	BORING #	B-2	GROUND WATER OBSERVATION	DATE	TIME	DEPTH
DATE: 3/14/89						13' 0"
DRILLER:						
INSPECTOR:						
ENGINEER:						
TYPE RIG:	SURFACE ELEVATION: 15.62					

DEPTH BELOW SURFACE	SAMPLE NUMBER	BLOWS PER 6" ON SAMPLER		CASING BLOWS PER FT.	DESCRIPTION	SYMBOL	REMARKS
		0-6	6-12				
0							
	1	4	5		SAND, SILT, GRAVEL, (FILL) (11-65)		
		5	6				
	2	4	5				
		5	3				
5	3	2	2				
		2	2				
	4	6	5				
		5	7				
	5	5	6				
10	6	6	6			BRN SAND, TR. GRAVEL (SP) (8-65)	
		8	9				
		12	11				
15	7	12	14				
		16	18				
20	8	25	24				
		27	32				
25	9	14	15		BRN SAND (SP) (8-65)		
		29	20				
30	10	16	17				
		23	29				
35							
40					END 32'		

SOIL MECHANICS DRILLING CORP.

SUBSOIL INVESTIGATIONS

3770 MERRICK ROAD • SEAFORD, L. I., NEW YORK 11783

JOB LOCATION: PORT WASHINGTON	BORING #	B-4	GROUND WATER OBSERVATION			
DATE: 3/14/89			DATE	TIME	DEPTH	10'-0"
DRILLER:						
INSPECTOR:						
ENGINEER:	SURFACE ELEVATION: 13.75					
TYPE RIG:						

DEPTH BELOW SURFACE	SAMPLE NUMBER	BLOWS PER 6" ON SAMPLER		CASING BLOWS PER FT.	DESCRIPTION	SYMBOL	REMARKS
		0-6	6-12				
0							
1	1	2	3		Sand, Silt, Gravel (Fill) (11-65)		
		5	5				
2	2	2	3				
		4	4				
3	3	4	5		Brown Fine Sand Trace Silt (SP) (8-65)		
4	4	6	7				
		10	23				
5	5	27	12				
		10	9				
6	6	9	14				
7		4	5				
8		7	8				
9					END 12'		
10							
11							
12							
13							
14							
15							
16							
17							
18							
19							
20							
21							
22							
23							
24							
25							
26							
27							
28							
29							
30							
31							
32							
33							
34							
35							
36							
37							
38							
39							
40							

SOIL MECHANICS DRILLING CORP.

SUBSOIL INVESTIGATIONS

3770 MERRICK ROAD • SEAFORD, L. I., NEW YORK 11783

JOB LOCATION: Port Wash.	BORING # B-5		GROUND WATER OBSERVATION		
DATE: 3/13/89		DATE	TIME	DEPTH	10'6"
DRILLER:					
INSPECTOR:					
ENGINEER:	SURFACE ELEVATION: 13.24				
TYPE RIG:					

DEPTH BELOW SURFACE	SAMPLE NUMBER	BLOWS PER 6" ON SAMPLER		CASING BLOWS PER FT.	DESCRIPTION	SYMBOL	REMARKS
		0-6	6-12				
0	1	3	3		SAND, SILT, GRAVEL, (FILL) (11-65)		
		7	8				
5	2	8	10		Brown Fine Sand (SP) (8-65)		
		12	13				
10	3	8	12		Brown Fine Sand (SP) (8-65)		
		17	23				
15	4	12	13		Brown Fine Sand (SP) (8-65)		
		9	10				
20	5	10	15		Brown Fine Sand (SP) (8-65)		
		16	17				
25	6	11	20		Brown Fine Sand (SP) (8-65)		
		22	25				
30	7	16	19		Brown Fine Sand (SP) (8-65)		
		19	24				
35					END 32'		
40							

SOIL MECHANICS DRILLING CORP.

SUBSOIL INVESTIGATIONS

3770 MERRICK ROAD • SEAFORD, L. I., NEW YORK 11783

JOB LOCATION: <u>Port. Wash</u>	BORING #	B-7	GROUND WATER OBSERVATION			
DATE: <u>3/10/89</u>			DATE	TIME	DEPTH	10'0"
DRILLER: _____			_____	_____	_____	_____
INSPECTOR: _____			_____	_____	_____	_____
ENGINEER: _____	SURFACE ELEVATION: <u>13.06</u>		_____	_____	_____	
TYPE RIG: _____			_____	_____	_____	

DEPTH BELOW SURFACE	SAMPLE NUMBER	BLOWS PER 6" ON SAMPLER		CASING BLOWS PER FT.	DESCRIPTION	SYMBOL	REMARKS
		0-6	6-12				
0					BLK TOP		
	1	2	4		SAND GRAVEL (FILL) (11-65)		
		5	6				
	2	8	8		BRN. F. SAND (SP) (8-65)		
		10	11				
5	3	12	16				
		17	21				
	4	15	17				
		20	21				
	5	18	19				
- 10		17	18		END 10'		
- 15							
- 20							
- 25							
- 30							
- 35							
- 40							

SOIL MECHANICS DRILLING CORP.

SUBSOIL INVESTIGATIONS

3770 MERRICK ROAD • SEAFORD, L. I., NEW YORK 11783

JOB LOCATION: Port Wash.	BORING # B-9	GROUND WATER OBSERVATION		
DATE: 3/13/89		DATE	TIME	DEPTH
DRILLER:		_____	_____	10'0"
INSPECTOR:		_____	_____	_____
ENGINEER:	_____			
TYPE RIG:	SURFACE ELEVATION : 11.85			

DEPTH BELOW SURFACE	SAMPLE NUMBER	BLOWS PER 6" ON SAMPLER		CASING BLOWS PER FT.	DESCRIPTION	SYMBOL	REMARKS
		0-6	6-12				
0					BLK. TOP		
	1	8	10		SAND, SILT, GRAVEL, (FILL) (11-65)		
		11	9				
	2	6	7		BROWN FINE SAND TR. SILT (SP) (8-65)		
		7	9				
5	3	7	6				
		6	8				
	4	8	9				
		10	12				
	5	8	9				
		10	9				
10	6	7	8				
		8	9				
15	7	11	13				
		12	15				
20	8	10	15		BROWN SAND (SP) (8-65)		
		16	17				
25	9	11	19				
		20	21				
30	10	19	23				
		19	25				
35					END 32'		
40							

SOIL MECHANICS DRILLING CORP.

SUBSOIL INVESTIGATIONS

3770 MERRICK ROAD • SEAFORD, L. I., NEW YORK 11783

JOB LOCATION: Port Wash.	BORING #	B-11	GROUND WATER OBSERVATION	DATE	TIME	DEPTH	
DATE: 3/13/89							9'-8"
DRILLER:							
INSPECTOR:							
ENGINEER:	SURFACE ELEVATION: 12.45						
TYPE RIG:							

DEPTH BELOW SURFACE	SAMPLE NUMBER	BLOWS PER 6" ON SAMPLER		CASING BLOWS PER FT.	DESCRIPTION	SYMBOL	REMARKS
		0-6	6-12				
0					BLK. TOP		
	1	4	4		SAND, SILT, GRAVEL (FILL) (11-85)		
		6	5				
	2	2	2		BRN. F. SAND TR. SILT (SP) (8-65)		
		3	2				
5	3	7	8				
		8	9				
	4	8	9				
		9	9				
	5	9	10		END 10'		
10		12	12				
15							
20							
25							
30							
35							
40							

SOIL MECHANICS DRILLING CORP.

SUBSOIL INVESTIGATIONS

3770 MERRICK ROAD • SEAFORD, L. I., NEW YORK 11783

JOB LOCATION: PORT WASHINGTON		BORING #	B-15	GROUND WATER OBSERVATION		
DATE: 3/13/89				DATE	TIME	DEPTH
DRILLER:				_____	_____	10'-0"
INSPECTOR:				_____	_____	_____
ENGINEER:		SURFACE ELEVATION: 11.58		_____	_____	
TYPE RIG:				_____	_____	

DEPTH BELOW SURFACE	SAMPLE NUMBER	BLOWS PER 6" ON SAMPLER		CASING BLOWS PER FT.	DESCRIPTION	SYMBOL	REMARKS
		0-6	6-12				
0					Blacktop		
	1	2	2		Sand, Silt, Gravel (Fill) (11-65)		
		2	2				
	2	2	4				
		5	4				
5	3	2	4		Brown Fine Sand Trace Silt (Fill) (SP)		
		4	3				
	4	2	2				
		2	2				
	5	4	4				
10		4	4		Tan Sand Trace Silt (SP) (8-65)		
	6	7	8				
		8	8				
15	7	10	11				
		19	19				
20	8	12	13				
		19	22				
25	9	12	13				
		18	19				
30	10	16	17				
		17	25				
35					END 32'		
40							

SOIL MECHANICS DRILLING CORP.

SUBSOIL INVESTIGATIONS

3770 MERRICK ROAD • SEAFORD, L. I., NEW YORK 11783

JOB LOCATION:		BORING #	B-16	GROUND WATER OBSERVATION		
PORT WASHINGTON				DATE	TIME	DEPTH
DATE: 3/16/89				10'-0"		
DRILLER:				_____		
INSPECTOR:				_____		
ENGINEER:		_____				
TYPE RIG:		SURFACE ELEVATION: 12.62				

DEPTH BELOW SURFACE	SAMPLE NUMBER	BLOWS PER 6" ON SAMPLER		CASING BLOWS PER FT.	DESCRIPTION	SYMBOL	REMARKS
		0-6	6-12				
0							
1	1	7	6		Brown/Lt. Brown Fine Sand		
		7	7		Trace Silt (SP) (8-65)		
2	2	8	7				
		8	8				
3	3	10	11		Brown/Lt. Brown Fine Sand		
4	4	11	12		(SP) (8-65)		
5		10	13				
		14	15				
6	5	8	10		Brown Fine Sand		
		11	12		Trace Silt (SP) (8-65)		
10							
					END 10'		
15							
20							
25							
30							
35							
40							

SOIL MECHANICS DRILLING CORP.

SUBSOIL INVESTIGATIONS

3770 MERRICK ROAD • SEAFORD, L. I., NEW YORK 11783

JOB LOCATION: PORT WASHINGTON		BORING # B-18	GROUND WATER OBSERVATION		
DATE: 3/16/89			DATE	TIME	DEPTH
DRILLER:					12'-0"
INSPECTOR:					
ENGINEER:					
TYPE RIG:		SURFACE ELEVATION: 13.31			

DEPTH BELOW SURFACE	SAMPLE NUMBER	BLOWS PER 6" ON SAMPLER		CASING BLOWS PER FT.	DESCRIPTION	SYMBOL	REMARKS
		0-6	6-12				
0					Sand, Silt, Gravel (Fill) (11-65)		
	1	5	5				
		2	2				
	2	2	2				
		3	5				
5	3	6	5				
		6	6				
	4	7	8				
		7	7				
	5	7	7				
10	6	6	6				
		8	8				
		10	10				
15					Brown Fine Sand Trace Silt (SP) (8-65)		
	7	5	6				
		7	10				
20	8	3	5				
		7	7				
25	9	14	14				
		15	16				
30	10	9	10				
		12	13				
35						END 32'	
40							

SOIL MECHANICS DRILLING CORP.

SUBSOIL INVESTIGATIONS

3770 MERRICK ROAD • SEAFORD, L. I., NEW YORK 11783

JOB LOCATION: PORT WASHINGTON		BORING # B-21	GROUND WATER OBSERVATION		
DATE: 3/16/89			DATE	TIME	DEPTH
DRILLER:			_____	_____	12'-0"
INSPECTOR:			_____	_____	_____
ENGINEER:		SURFACE ELEVATION: 14.08			
TYPE RIG:		_____			

DEPTH BELOW SURFACE	SAMPLE NUMBER	BLOWS PER 6" ON SAMPLER		CASING BLOWS PER FT.	DESCRIPTION	SYMBOL	REMARKS
		0-6	6-12				
0							
	1	4	5		Sand, Silt, Gravel (Fill) (11-65)		
		5	5				
	2	2	2				
		1	2				
5	3	1	1				
		2	1				
	4	2	3				
		1	1				
	5	2	1				
		2	1				
10	6	4	6		Brown/Lt. Brown Fine Sand Trace Silt (SP) (8-65)		
		6	6				
15	7	12	13				
		15	17				
20	8	19	20				
		21	23				
25	9	14	22				
		23	29				
30	10	12	16		END 32'		
		16	21				
35							
40							

APPENDIX 3

377 SHEFFIELD AVE. • N. BABYLON, N.Y. 11703 • (516) 422-5777

LAB NO. C890738/6

03/31/89

Soil Mechanics
3770 Merrick Rd.
Seaford, NY 11783

ATTN: Mr. Robert Cardinale

PO# 0784

SOURCE OF SAMPLE: Port Washington, 89-019

COLLECTED BY: Client DATE COL'D:03/14/89 RECEIVED:03/15/89

SAMPLE: Soil sample, boring #1, 2-4'

ANALYTICAL PARAMETERS

Chloromethane	ug/Kg	<5
Bromomethane	ug/Kg	<5
Dichlordifluomethane	ug/Kg	<5
Vinyl Chloride	ug/Kg	<5
Chloroethane	ug/Kg	<5
Methylene Chloride	ug/Kg	<10
Trichlorofluomethane	ug/Kg	<10
11 Dichloroethene	ug/Kg	<10
11 Dichloroethane	ug/Kg	<10
12 Dichloroethene	ug/Kg	<10
Chloroform	ug/Kg	<5
12 Dichloroethane	ug/Kg	<10
111 Trichloroethane	ug/Kg	<5
Carbon Tetrachloride	ug/Kg	<5
Bromodichloromethane	ug/Kg	<5
12 Dichloropropane	ug/Kg	<10
t 13 Dichloropropene	ug/Kg	<10
Trichloroethylene	ug/Kg	<5
Chlorodibromomethane	ug/Kg	<5
112 Trichloroethane	ug/Kg	<10
c 13 Dichloropropene	ug/Kg	<10
2chloroethvinylether	ug/Kg	<10
Bromoform	ug/Kg	<10
1122Tetrachloroethan	ug/Kg	<10
Tetrachloroethene	ug/Kg	<5


ANALYTICAL PARAMETERS

Chlorobenzene	ug/Kg	<5
13 Dichlorobenzene	ug/Kg	<10
12 Dichlorobenzene	ug/Kg	<10
14 Dichlorobenzene	ug/Kg	<10
Benzene	ug/Kg	<5
Toluene	ug/Kg	<10
Ethyl Benzene	ug/Kg	<5
m Xylene	ug/Kg	<10
o+p Xylene	ug/Kg	<20
acetone	ug/Kg	<100
Methyl Ethyl Ketone	ug/Kg	<100
methylisobutylketone	ug/Kg	<100

cc:

REMARKS: Page 1 of 2.

DIRECTOR



377 SHEFFIELD AVE. • N. BABYLON, N.Y. 11703 • (516) 422-5777

LAB NO. C890738/6

03/31/89

Soil Mechanics
3770 Merrick Rd.
Seaford, NY 11783

ATTN: Mr. Robert Cardinale

PO# 0784

SOURCE OF SAMPLE: Port Washington, 89-019

COLLECTED BY: Client DATE COL'D: 03/14/89 RECEIVED: 03/15/89

SAMPLE: Soil sample, boring #1, 2-4'

ANALYTICAL PARAMETERS

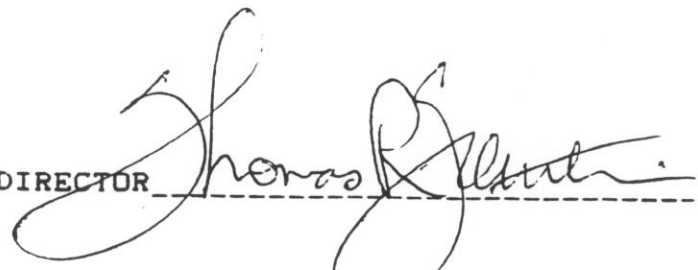
Antimony as Sb	mg/Kg	<0.050
Arsenic as As	mg/Kg	0.56
Beryllium as Be	mg/Kg	0.11
Cadmium as Cd	mg/Kg	0.040
Chromium as Cr	mg/Kg	3.1
Copper as Cu	mg/Kg	3.5
Lead as Pb	mg/Kg	1.8
Mercury as Hg	mg/Kg	<0.005
Nickel as Ni	mg/Kg	4.7
Selenium as Se	mg/Kg	<0.05
Silver as Ag	mg/Kg	0.10
Thallium as Tl	mg/Kg	0.035
Zinc as Zn	mg/Kg	25
Petrol. Hydrocarbons	mg/Kg	<16

ANALYTICAL PARAMETERS

cc:

REMARKS: Page 2 of 2.

DIRECTOR



377 SHEFFIELD AVE. • N. BABYLON, N.Y. 11703 • (516) 422-5777

LAB NO. C890738/8

03/31/89

Soil Mechanics
3770 Merrick Rd.
Seaford, NY 11783

ATTN: Mr. Robert Cardinale

PO# 0784

SOURCE OF SAMPLE: Port Washington, 89-019
COLLECTED BY: Client DATE COL'D: 03/14/89 RECEIVED: 03/15/89

SAMPLE: Soil sample, boring #2, 10-12'

ANALYTICAL PARAMETERS

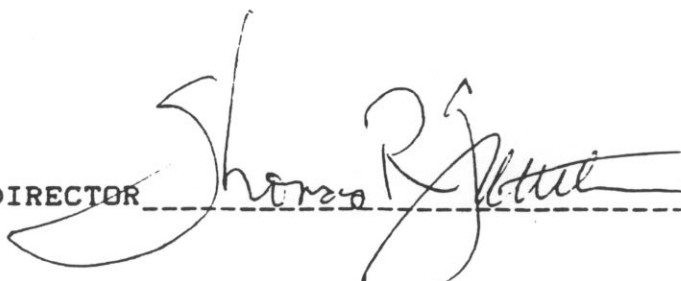
Chloromethane	ug/Kg	<5
Bromomethane	ug/Kg	<5
Dichlorodifluomethane	ug/Kg	<5
Vinyl Chloride	ug/Kg	<5
Chloroethane	ug/Kg	<5
Methylene Chloride	ug/Kg	<10
Trichlorofluomethane	ug/Kg	<10
11 Dichloroethene	ug/Kg	<10
11 Dichloroethane	ug/Kg	<10
12 Dichloroethene	ug/Kg	<10
Chloroform	ug/Kg	<5
12 Dichloroethane	ug/Kg	<10
111 Trichloroethane	ug/Kg	<5
Carbon Tetrachloride	ug/Kg	<5
Bromodichloromethane	ug/Kg	<5
12 Dichloropropane	ug/Kg	<10
t 13 Dichloropropene	ug/Kg	<10
Trichloroethylene	ug/Kg	<5
Chlorodibromomethane	ug/Kg	<5
112 Trichloroethane	ug/Kg	<10
c 13 Dichloropropene	ug/Kg	<10
2chloroethvinylether	ug/Kg	<10
Bromoform	ug/Kg	<10
1122Tetrachloroethan	ug/Kg	<10
Tetrachloroethene	ug/Kg	<5

ANALYTICAL PARAMETERS

Chlorobenzene	ug/Kg	<5
13 Dichlorobenzene	ug/Kg	<10
12 Dichlorobenzene	ug/Kg	<10
14 Dichlorobenzene	ug/Kg	<10
Benzene	ug/Kg	<5
Toluene	ug/Kg	<10
Ethyl Benzene	ug/Kg	<5
m Xylene	ug/Kg	<10
o+p Xylene	ug/Kg	<20
acetone	ug/Kg	<100
Methyl Ethyl Ketone	ug/Kg	<100
methylisobutylketone	ug/Kg	<100

cc:

REMARKS: Page 1 of 2.

DIRECTOR 

377 SHEFFIELD AVE. • N. BABYLON, N.Y. 11703 • (516) 422-5777

LAB NO. C890738/8

03/31/89

Soil Mechanics
3770 Merrick Rd.
Seaford, NY 11783

ATTN: Mr. Robert Cardinale

PO# 0784

SOURCE OF SAMPLE: Port Washington, 89-019
COLLECTED BY: Client DATE COL'D: 03/14/89 RECEIVED: 03/15/89

SAMPLE: Soil sample, boring #2, 10-12'

ANALYTICAL PARAMETERS

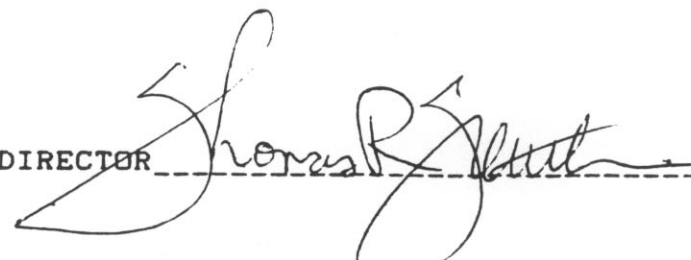
Antimony as Sb	mg/Kg	<0.050
Arsenic as As	mg/Kg	0.52
Beryllium as Be	mg/Kg	0.070
Cadmium as Cd	mg/Kg	<0.005
Chromium as Cr	mg/Kg	2.9
Copper as Cu	mg/Kg	3.0
Lead as Pb	mg/Kg	0.80
Mercury as Hg	mg/Kg	<0.005
Nickel as Ni	mg/Kg	2.7
Selenium as Se	mg/Kg	<0.05
Silver as Ag	mg/Kg	0.05
Thallium as Tl	mg/Kg	0.030
Zinc as Zn	mg/Kg	6.0
Petrol. Hydrocarbons	mg/Kg	<16

ANALYTICAL PARAMETERS

cc:

REMARKS: Page 2 of 2.

DIRECTOR



377 SHEFFIELD AVE. • N. BABYLON, N.Y. 11703 • (516) 422-5777

LAB NO. C890738/3

03/31/89

Soil Mechanics
3770 Merrick Rd.
Seaford, NY 11783

ATTN: Mr. Robert Cardinale

PO# 0784

SOURCE OF SAMPLE: Port Washington, 89-019

COLLECTED BY: Client DATE COL'D: 03/15/89 RECEIVED: 03/15/89

SAMPLE: Soil sample, boring #3, 2-4'

ANALYTICAL PARAMETERS

Chloromethane	ug/Kg	<5
Bromomethane	ug/Kg	<5
Dichlorodifluomethane	ug/Kg	<5
Vinyl Chloride	ug/Kg	<5
Chloroethane	ug/Kg	<5
Methylene Chloride	ug/Kg	<10
Trichlorofluomethane	ug/Kg	<10
11 Dichloroethene	ug/Kg	<10
11 Dichloroethane	ug/Kg	<10
12 Dichloroethene	ug/Kg	<10
Chloroform	ug/Kg	<5
12 Dichloroethane	ug/Kg	<10
111 Trichloroethane	ug/Kg	<5
Carbon Tetrachloride	ug/Kg	<5
Bromodichloromethane	ug/Kg	<5
12 Dichloropropane	ug/Kg	<10
t 13 Dichloropropene	ug/Kg	<10
Trichloroethylene	ug/Kg	<5
Chlorodibromomethane	ug/Kg	<5
112 Trichloroethane	ug/Kg	<10
c 13 Dichloropropene	ug/Kg	<10
2chloroethvinylether	ug/Kg	<10
Bromoform	ug/Kg	<10
1122Tetrachloroethan	ug/Kg	<10
Tetrachloroethene	ug/Kg	<5

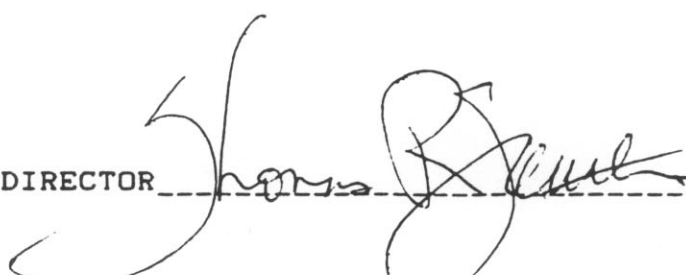
ANALYTICAL PARAMETERS

Chlorobenzene	ug/Kg	<5
13 Dichlorobenzene	ug/Kg	<10
12 Dichlorobenzene	ug/Kg	<10
14 Dichlorobenzene	ug/Kg	<10
Benzene	ug/Kg	<5
Toluene	ug/Kg	<10
Ethyl Benzene	ug/Kg	<5
m Xylene	ug/Kg	<10
o+p Xylene	ug/Kg	<20
acetone	ug/Kg	<100
Methyl Ethyl Ketone	ug/Kg	<100
methylisobutylketone	ug/Kg	<100

cc:

REMARKS: Page 1 of 2.

DIRECTOR



377 SHEFFIELD AVE. • N. BABYLON, N.Y. 11703 • (516) 422-5777

LAB NO. C890738/3

03/31/89

Soil Mechanics
3770 Merrick Rd.
Seaford, NY 11783

ATTN: Mr. Robert Cardinale

PO# 0784

SOURCE OF SAMPLE: Port Washington, 89-019
COLLECTED BY: Client DATE COL'D: 03/15/89 RECEIVED: 03/15/89

SAMPLE: Soil sample, boring #3, 2-4'

ANALYTICAL PARAMETERS

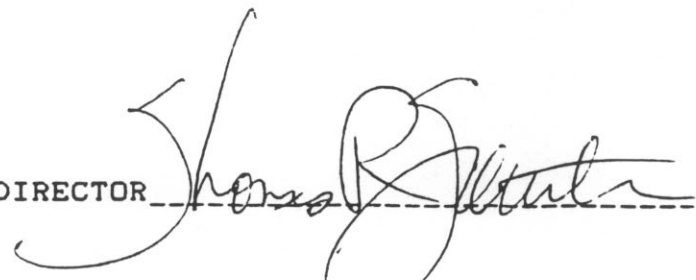
Antimony as Sb	mg/Kg	<0.050
Arsenic as As	mg/Kg	1.0
Beryllium as Be	mg/Kg	0.21
Cadmium as Cd	mg/Kg	0.019
Chromium as Cr	mg/Kg	9.0
Copper as Cu	mg/Kg	6.5
Lead as Pb	mg/Kg	1.8
Mercury as Hg	mg/Kg	<0.005
Nickel as Ni	mg/Kg	10
Selenium as Se	mg/Kg	<0.05
Silver as Ag	mg/Kg	0.15
Thallium as Tl	mg/Kg	0.10
Zinc as Zn	mg/Kg	19
Petrol. Hydrocarbons	mg/Kg	<16

ANALYTICAL PARAMETERS

cc:

REMARKS: Page 2 of 2.

DIRECTOR



377 SHEFFIELD AVE. • N. BABYLON, N.Y. 11703 • (516) 422-5777

LAB NO. C890738/7

03/31/89

Soil Mechanics
3770 Merrick Rd.
Seaford, NY 11783

ATTN: Mr. Robert Cardinale

PO# 0784

SOURCE OF SAMPLE: Port Washington, 89-019

COLLECTED BY: Client DATE COL'D: 03/14/89 RECEIVED: 03/15/89

SAMPLE: Soil sample, boring #4, 4-6'

ANALYTICAL PARAMETERS

Chloromethane	ug/Kg	<5
Bromomethane	ug/Kg	<5
Dichlorodifluomethane	ug/Kg	<5
Vinyl Chloride	ug/Kg	<5
Chloroethane	ug/Kg	<5
Methylene Chloride	ug/Kg	10
Trichlorofluomethane	ug/Kg	<10
11 Dichloroethene	ug/Kg	<10
11 Dichloroethane	ug/Kg	<10
12 Dichloroethene	ug/Kg	<10
Chloroform	ug/Kg	<5
12 Dichloroethane	ug/Kg	<10
111 Trichloroethane	ug/Kg	<5
Carbon Tetrachloride	ug/Kg	<5
Bromodichloromethane	ug/Kg	<5
12 Dichloropropane	ug/Kg	<10
13 Dichloropropene	ug/Kg	<10
Trichloroethylene	ug/Kg	<5
Chlorodibromomethane	ug/Kg	<5
112 Trichloroethane	ug/Kg	<10
13 Dichloropropene	ug/Kg	<10
2chloroethvinylether	ug/Kg	<10
Bromoform	ug/Kg	<10
1122Tetrachloroethan	ug/Kg	<10
Tetrachloroethene	ug/Kg	10

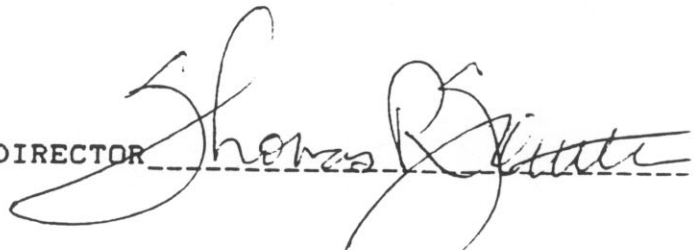
ANALYTICAL PARAMETERS

Chlorobenzene	ug/Kg	<5
13 Dichlorobenzene	ug/Kg	<10
12 Dichlorobenzene	ug/Kg	<10
14 Dichlorobenzene	ug/Kg	<10
Benzene	ug/Kg	<5
Toluene	ug/Kg	<10
Ethyl Benzene	ug/Kg	<5
m Xylene	ug/Kg	<10
o+p Xylene	ug/Kg	<20
acetone	ug/Kg	<100
Methyl Ethyl Ketone	ug/Kg	<100
methylisobutylketone	ug/Kg	<100

cc:

REMARKS: Page 1 of 2.

DIRECTOR



377 SHEFFIELD AVE. • N. BABYLON, N.Y. 11703 • (516) 422-5777

LAB NO. C890738/7

03/31/89

Soil Mechanics
3770 Merrick Rd.
Seaford, NY 11783

ATTN: Mr. Robert Cardinale

PO# 0784

SOURCE OF SAMPLE: Port Washington, 89-019

COLLECTED BY: Client DATE COL'D: 03/14/89 RECEIVED: 03/15/89

SAMPLE: Soil sample, boring #4, 4-6'

ANALYTICAL PARAMETERS

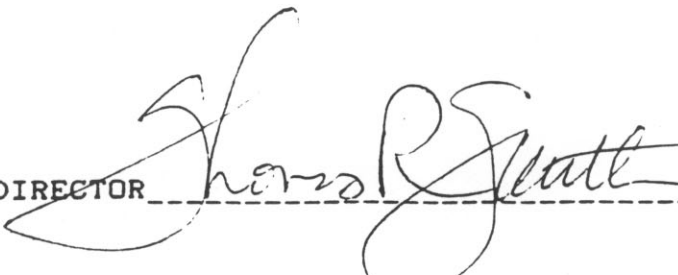
Antimony as Sb	mg/Kg	<0.050
Arsenic as As	mg/Kg	3.0
Beryllium as Be	mg/Kg	0.13
Cadmium as Cd	mg/Kg	0.056
Chromium as Cr	mg/Kg	3.0
Copper as Cu	mg/Kg	3.8
Lead as Pb	mg/Kg	8.5
Mercury as Hg	mg/Kg	0.005
Nickel as Ni	mg/Kg	4.5
Selenium as Se	mg/Kg	0.33
Silver as Ag	mg/Kg	0.05
Thallium as Tl	mg/Kg	0.025
Zinc as Zn	mg/Kg	13
Petrol. Hydrocarbons	mg/Kg	19

ANALYTICAL PARAMETERS

cc:

REMARKS: Page 2 of 2.

DIRECTOR



377 SHEFFIELD AVE. • N. BABYLON, N.Y. 11703 • (516) 422-5777

LAB NO. C890707/5

03/28/89

Soil Mechanics
3770 Merrick Rd.
Seaford, NY 11783

ATTN: Mr. Robert Cardinale

PO# 0783

SOURCE OF SAMPLE: Port Washington-Typin Steel, 89-019
COLLECTED BY: Client DATE COL'D:03/13/89 RECEIVED:03/13/89

SAMPLE: Soil Sample, boring #5, 5-7'

ANALYTICAL PARAMETERS

Chloromethane	ug/Kg	<5
Bromomethane	ug/Kg	<5
Dichlordifluomethane	ug/Kg	<5
Vinyl Chloride	ug/Kg	<5
Chloroethane	ug/Kg	<5
Methylene Chloride	ug/Kg	<10
Trichlorofluomethane	ug/Kg	<10
11 Dichloroethene	ug/Kg	<10
11 Dichloroethane	ug/Kg	<10
12 Dichloroethene	ug/Kg	<10
Chloroform	ug/Kg	<5
12 Dichloroethane	ug/Kg	<10
111 Trichloroethane	ug/Kg	<5
Carbon Tetrachloride	ug/Kg	<5
Bromodichloromethane	ug/Kg	<5
12 Dichloropropane	ug/Kg	<10
t 13 Dichloropropene	ug/Kg	<10
Trichloroethylene	ug/Kg	<5
Chlorodibromomethane	ug/Kg	<5
112 Trichloroethane	ug/Kg	<10
c 13 Dichloropropene	ug/Kg	<10
2chloroethvinylether	ug/Kg	<10
Bromoform	ug/Kg	<10
1122Tetrachloroethan	ug/Kg	<10
Tetrachloroethene	ug/Kg	<5

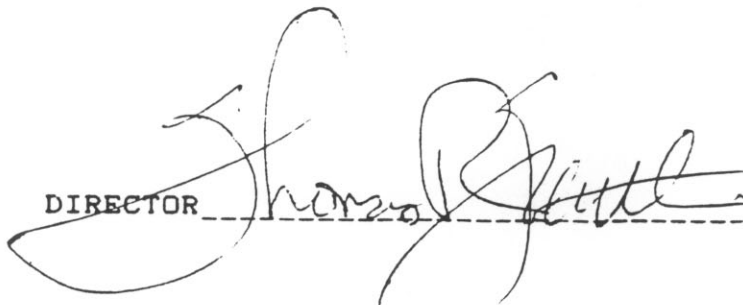
ANALYTICAL PARAMETERS

Chlorobenzene	ug/Kg	<5
13 Dichlorobenzene	ug/Kg	<10
12 Dichlorobenzene	ug/Kg	<10
14 Dichlorobenzene	ug/Kg	<10
Benzene	ug/Kg	<5
Toluene	ug/Kg	<10
Ethyl Benzene	ug/Kg	<5
m Xylene	ug/Kg	<10
o+p Xylene	ug/Kg	<20
acetone	ug/Kg	<100
Methyl Ethyl Ketone	ug/Kg	<100
methylisobutylketone	ug/Kg	<100

cc:

REMARKS:

DIRECTOR



377 SHEFFIELD AVE. • N. BABYLON, N.Y. 11703 • (516) 422-5777

LAB NO. C890707/5

03/28/89

Soil Mechanics
3770 Merrick Rd.
Seaford, NY 11783

ATTN: Mr. Robert Cardinale

PO# 0783

SOURCE OF SAMPLE: Port Washington-Typin Steel, 89-019
COLLECTED BY: Client DATE COL'D:03/13/89 RECEIVED:03/13/89

SAMPLE: Soil Sample, boring #5, 5-7'

ANALYTICAL PARAMETERS

Antimony as Sb	mg/Kg	<0.050
Arsenic as As	mg/Kg	0.58
Beryllium as Be	mg/Kg	0.15
Cadmium as Cd	mg/Kg	0.029
Chromium as Cr	mg/Kg	4.6
Copper as Cu	mg/Kg	3.8
Lead as Pb	mg/Kg	1.0
Mercury as Hg	mg/Kg	<0.005
Nickel as Ni	mg/Kg	9.0
Selenium as Se	mg/Kg	0.055
Silver as Ag	mg/Kg	0.10
Thallium as Tl	mg/Kg	0.045
Zinc as Zn	mg/Kg	48

ANALYTICAL PARAMETERS

Petrol. Hydrocarbons mg/Kg <16

CC:

REMARKS:

DIRECTOR 

377 SHEFFIELD AVE. • N. BABYLON, N.Y. 11703 • (516) 422-5777

LAB NO. C890707/1

03/28/89

Soil Mechanics
3770 Merrick Rd.
Seaford, NY 11783

ATTN: Mr. Robert Cardinale

PO# 0783

SOURCE OF SAMPLE: Port Washington-Typin Steel, 89-019
COLLECTED BY: Client DATE COL'D: 03/10/89 RECEIVED: 03/13/89

SAMPLE: Soil Sample, boring #7, 6-8'

ANALYTICAL PARAMETERS

Chloromethane	ug/Kg	<5
Bromomethane	ug/Kg	<5
Dichlorodifluomethane	ug/Kg	<5
Vinyl Chloride	ug/Kg	<5
Chloroethane	ug/Kg	<5
Methylene Chloride	ug/Kg	<10
Trichlorofluomethane	ug/Kg	<10
11 Dichloroethene	ug/Kg	<10
11 Dichloroethane	ug/Kg	<10
12 Dichloroethene	ug/Kg	<10
Chloroform	ug/Kg	<5
12 Dichloroethane	ug/Kg	<10
111 Trichloroethane	ug/Kg	<5
Carbon Tetrachloride	ug/Kg	<5
Bromodichloromethane	ug/Kg	<5
12 Dichloropropane	ug/Kg	<10
t 13 Dichloropropene	ug/Kg	<10
Trichloroethylene	ug/Kg	<5
Chlorodibromomethane	ug/Kg	<5
112 Trichloroethane	ug/Kg	<10
c 13 Dichloropropene	ug/Kg	<10
2chloroethvinylether	ug/Kg	<10
Bromoform	ug/Kg	<10
1122Tetrachloroethan	ug/Kg	<10
Tetrachloroethene	ug/Kg	<5

ANALYTICAL PARAMETERS

Chlorobenzene	ug/Kg	<5
13 Dichlorobenzene	ug/Kg	<10
12 Dichlorobenzene	ug/Kg	<10
14 Dichlorobenzene	ug/Kg	<10
Benzene	ug/Kg	<5
Toluene	ug/Kg	<10
Ethyl Benzene	ug/Kg	<5
m Xylene	ug/Kg	<10
o+p Xylene	ug/Kg	<20
acetone	ug/Kg	<100
Methyl Ethyl Ketone	ug/Kg	<100
methylisobutylketone	ug/Kg	<100

cc:

REMARKS:

DIRECTOR

377 SHEFFIELD AVE. • N. BABYLON, N.Y. 11703 • (516) 422-5777

LAB NO. C890707/4

03/28/89

Soil Mechanics
3770 Merrick Rd.
Seaford, NY 11783

ATTN: Mr. Robert Cardinale

PO# 0783

SOURCE OF SAMPLE: Port Washington-Typin Steel, 89-019
COLLECTED BY: Client DATE COL'D:03/13/89 RECEIVED:03/13/89

SAMPLE: Soil Sample, boring #8, 4-6'

ANALYTICAL PARAMETERS

Chloromethane	ug/Kg	<5
Bromomethane	ug/Kg	<5
Dichlordifluomethane	ug/Kg	<5
Vinyl Chloride	ug/Kg	<5
Chloroethane	ug/Kg	<5
Methylene Chloride	ug/Kg	<10
Trichlorofluomethane	ug/Kg	<10
11 Dichloroethene	ug/Kg	<10
11 Dichloroethane	ug/Kg	<10
12 Dichloroethene	ug/Kg	<10
Chloroform	ug/Kg	<5
12 Dichloroethane	ug/Kg	<10
111 Trichloroethane	ug/Kg	<5
Carbon Tetrachloride	ug/Kg	<5
Bromodichloromethane	ug/Kg	<5
12 Dichloropropane	ug/Kg	<10
t 13 Dichloropropene	ug/Kg	<10
Trichloroethylene	ug/Kg	<5
Chlorodibromomethane	ug/Kg	<5
112 Trichloroethane	ug/Kg	<10
c 13 Dichloropropene	ug/Kg	<10
2chloroethvinylether	ug/Kg	<10
Bromoform	ug/Kg	<10
1122Tetrachloroethan	ug/Kg	<10
Tetrachloroethene	ug/Kg	<5

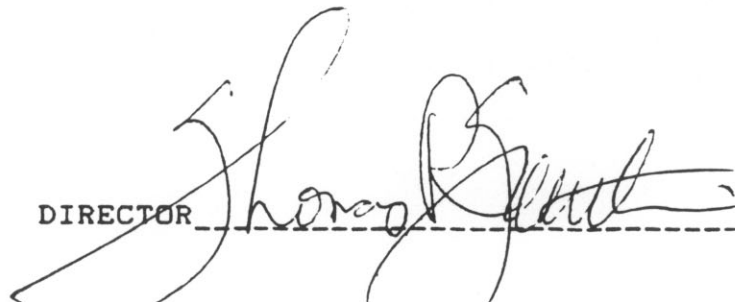
ANALYTICAL PARAMETERS

Chlorobenzene	ug/Kg	<5
13 Dichlorobenzene	ug/Kg	<10
12 Dichlorobenzene	ug/Kg	<10
14 Dichlorobenzene	ug/Kg	<10
Benzene	ug/Kg	<5
Toluene	ug/Kg	<10
Ethyl Benzene	ug/Kg	<5
m Xylene	ug/Kg	<10
o+p Xylene	ug/Kg	<20
acetone	ug/Kg	<100
Methyl Ethyl Ketone	ug/Kg	<100
methylisobutylketone	ug/Kg	<100

cc:

REMARKS:

DIRECTOR



377 SHEFFIELD AVE. • N. BABYLON, N.Y. 11703 • (516) 422-5777

LAB NO. C890707/4

03/28/89

Soil Mechanics
3770 Merrick Rd.
Seaford, NY 11783

ATTN: Mr. Robert Cardinale

PO# 0783

SOURCE OF SAMPLE: Port Washington-Typin Steel, 89-019
COLLECTED BY: Client DATE COL'D: 03/13/89 RECEIVED: 03/13/89

SAMPLE: Soil Sample, boring #8, 4-6'

ANALYTICAL PARAMETERS

Antimony as Sb	mg/Kg	<0.050
Arsenic as As	mg/Kg	0.89
Beryllium as Be	mg/Kg	0.15
Cadmium as Cd	mg/Kg	0.038
Chromium as Cr	mg/Kg	3.9
Copper as Cu	mg/Kg	4.3
Lead as Pb	mg/Kg	1.3
Mercury as Hg	mg/Kg	0.005
Nickel as Ni	mg/Kg	4.5
Selenium as Se	mg/Kg	0.17
Silver as Ag	mg/Kg	0.10
Thallium as Tl	mg/Kg	0.040
Zinc as Zn	mg/Kg	16

Petrol. Hydrocarbons mg/Kg <16

ANALYTICAL PARAMETERS

cc:

REMARKS:

DIRECTOR



377 SHEFFIELD AVE. • N. BABYLON, N.Y. 11703 • (516) 422-5777

LAB NO. C890707/3

03/28/89

Soil Mechanics
3770 Merrick Rd.
Seaford, NY 11783

ATTN: Mr. Robert Cardinale

PO# 0783

SOURCE OF SAMPLE: Port Washington-Typin Steel, 89-019
COLLECTED BY: Client DATE COL'D: 03/13/89 RECEIVED: 03/13/89

SAMPLE: Soil Sample, boring #9, 6-8'

ANALYTICAL PARAMETERS

Chloromethane	ug/Kg	<5
Bromomethane	ug/Kg	<5
Dichlorodifluomethane	ug/Kg	<5
Vinyl Chloride	ug/Kg	<5
Chloroethane	ug/Kg	<5
Methylene Chloride	ug/Kg	<10
Trichlorofluomethane	ug/Kg	<10
11 Dichloroethene	ug/Kg	<10
11 Dichloroethane	ug/Kg	<10
12 Dichloroethene	ug/Kg	<10
Chloroform	ug/Kg	<5
12 Dichloroethane	ug/Kg	<10
111 Trichloroethane	ug/Kg	<5
Carbon Tetrachloride	ug/Kg	<5
Bromodichloromethane	ug/Kg	<5
12 Dichloropropane	ug/Kg	<10
t 13 Dichloropropene	ug/Kg	<10
Trichloroethylene	ug/Kg	<5
Chlorodibromomethane	ug/Kg	<5
112 Trichloroethane	ug/Kg	<10
c 13 Dichloropropene	ug/Kg	<10
2chloroethvinylether	ug/Kg	<10
Bromoform	ug/Kg	<10
1122Tetrachloroethan	ug/Kg	<10
Tetrachloroethene	ug/Kg	<5

ANALYTICAL PARAMETERS

Chlorobenzene	ug/Kg	<5
13 Dichlorobenzene	ug/Kg	<10
12 Dichlorobenzene	ug/Kg	<10
14 Dichlorobenzene	ug/Kg	<10
Benzene	ug/Kg	<5
Toluene	ug/Kg	<10
Ethyl Benzene	ug/Kg	<5
m Xylene	ug/Kg	<10
o+p Xylene	ug/Kg	<20
acetone	ug/Kg	<100
Methyl Ethyl Ketone	ug/Kg	<100
methylisobutylketone	ug/Kg	<100

cc:

REMARKS:

DIRECTOR 

377 SHEFFIELD AVE. • N. BABYLON, N.Y. 11703 • (516) 422-5777

LAB NO. C890707/3

03/28/89

Soil Mechanics
3770 Merrick Rd.
Seaford, NY 11783

ATTN: Mr. Robert Cardinale

PO# 0783

SOURCE OF SAMPLE: Port Washington-Typin Steel, 89-019
COLLECTED BY: Client DATE COL'D:03/13/89 RECEIVED:03/13/89

SAMPLE: Soil Sample, boring #9, 6-8'

ANALYTICAL PARAMETERS

Antimony as Sb	mg/Kg	0.080
Arsenic as As	mg/Kg	0.89
Beryllium as Be	mg/Kg	0.21
Cadmium as Cd	mg/Kg	0.048
Chromium as Cr	mg/Kg	9.1
Copper as Cu	mg/Kg	6.5
Lead as Pb	mg/Kg	2.0
Mercury as Hg	mg/Kg	0.005
Nickel as Ni	mg/Kg	8.5
Selenium as Se	mg/Kg	0.067
Silver as Ag	mg/Kg	0.20
Thallium as Tl	mg/Kg	0.075
Zinc as Zn	mg/Kg	19

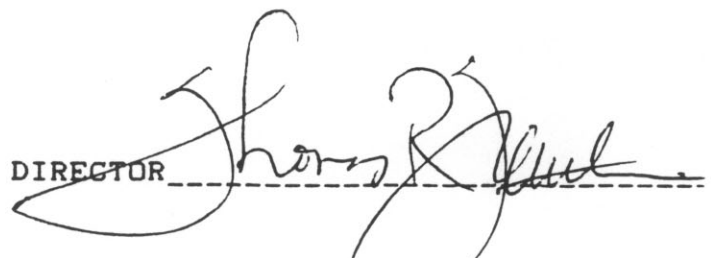
ANALYTICAL PARAMETERS

Petrol. Hydrocarbons mg/Kg <16

cc:

REMARKS:

DIRECTOR



377 SHEFFIELD AVE. • N. BABYLON, N.Y. 11703 • (516) 422-5777

LAB NO. C890707/2

03/28/89

Soil Mechanics
3770 Merrick Rd.
Seaford, NY 11783

ATTN: Mr. Robert Cardinale

PO# 0783

SOURCE OF SAMPLE: Port Washington-Typin Steel, 89-019
COLLECTED BY: Client DATE COL'D:03/13/89 RECEIVED:03/13/89

SAMPLE: Soil Sample, boring #11, 2-4'

ANALYTICAL PARAMETERS

Chloromethane	ug/Kg	<5
Bromomethane	ug/Kg	<5
Dichlordifluomethane	ug/Kg	<5
Vinyl Chloride	ug/Kg	<5
Chloroethane	ug/Kg	<5
Methylene Chloride	ug/Kg	<10
Trichlorofluomethane	ug/Kg	<10
11 Dichloroethene	ug/Kg	<10
11 Dichloroethane	ug/Kg	<10
12 Dichloroethene	ug/Kg	<10
Chloroform	ug/Kg	<5
12 Dichloroethane	ug/Kg	<10
111 Trichloroethane	ug/Kg	<5
Carbon Tetrachloride	ug/Kg	<5
Bromodichloromethane	ug/Kg	<5
12 Dichloropropane	ug/Kg	<10
t 13 Dichloropropene	ug/Kg	<10
Trichloroethylene	ug/Kg	<5
Chlorodibromomethane	ug/Kg	<5
112 Trichloroethane	ug/Kg	<10
c 13 Dichloropropene	ug/Kg	<10
2chloroethvinylether	ug/Kg	<10
Bromoform	ug/Kg	<10
1122Tetrachloroethan	ug/Kg	<10
Tetrachloroethene	ug/Kg	<5

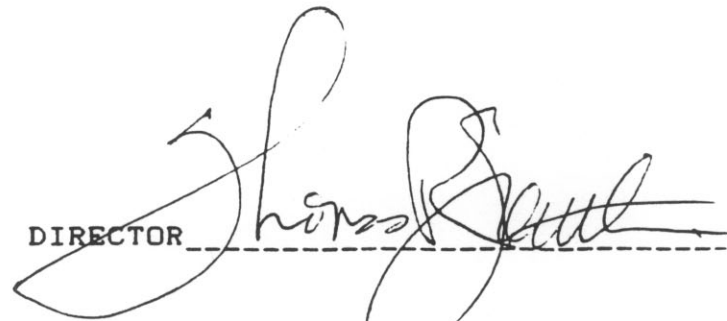
ANALYTICAL PARAMETERS

Chlorobenzene	ug/Kg	<5
13 Dichlorobenzene	ug/Kg	<10
12 Dichlorobenzene	ug/Kg	<10
14 Dichlorobenzene	ug/Kg	<10
Benzene	ug/Kg	<5
Toluene	ug/Kg	<10
Ethyl Benzene	ug/Kg	<5
m Xylene	ug/Kg	<10
o+p Xylene	ug/Kg	<20
acetone	ug/Kg	<100
Methyl Ethyl Ketone	ug/Kg	<100
methylisobutylketone	ug/Kg	<100

cc:

REMARKS:

DIRECTOR



377 SHEFFIELD AVE. • N. BABYLON, N.Y. 11703 • (516) 422-5777

LAB NO. C890707/2

03/28/89

Soil Mechanics
3770 Merrick Rd.
Seaford, NY 11783

ATTN: Mr. Robert Cardinale

PO# 0783

SOURCE OF SAMPLE: Port Washington-Typin Steel, 89-019
COLLECTED BY: Client DATE COL'D: 03/13/89 RECEIVED: 03/13/89

SAMPLE: Soil Sample, boring #11, 2-4'

ANALYTICAL PARAMETERS

Antimony as Sb	ug/Kg	0.060
Arsenic as As	mg/Kg	0.83
Beryllium as Be	mg/Kg	0.19
Cadmium as Cd	mg/Kg	0.026
Chromium as Cr	mg/Kg	6.5
Copper as Cu	mg/Kg	7.0
Lead as Pb	mg/Kg	1.5
Mercury as Hg	mg/Kg	0.007
Nickel as Ni	mg/Kg	10
Selenium as Se	mg/Kg	0.055
Silver as Ag	mg/Kg	0.25
Thallium as Tl	mg/Kg	0.060
Zinc as Zn	mg/Kg	12

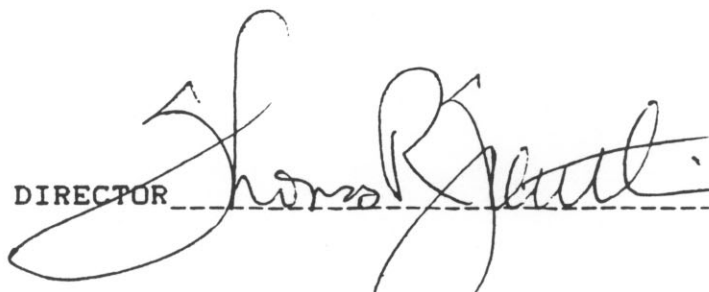
Petrol. Hydrocarbons mg/Kg <16

ANALYTICAL PARAMETERS

CC:

REMARKS:

DIRECTOR



377 SHEFFIELD AVE. • N. BABYLON, N.Y. 11703 • (516) 422-5777

LAB NO. C890707/6

03/28/89

Soil Mechanics
3770 Merrick Rd.
Seaford, NY 11783

ATTN: Mr. Robert Cardinale

PO# 0783

SOURCE OF SAMPLE: Port Washington-Typin Steel, 89-019
COLLECTED BY: Client DATE COL'D:03/13/89 RECEIVED:03/13/89

SAMPLE: Soil Sample, boring #13, 6-8'

ANALYTICAL PARAMETERS

Chloromethane	ug/Kg	<5
Bromomethane	ug/Kg	<5
Dichlordifluomethane	ug/Kg	<5
Vinyl Chloride	ug/Kg	<5
Chloroethane	ug/Kg	<5
Methylene Chloride	ug/Kg	<10
Trichlorofluomethane	ug/Kg	<10
11 Dichloroethene	ug/Kg	<10
11 Dichloroethane	ug/Kg	<10
12 Dichloroethene	ug/Kg	<10
Chloroform	ug/Kg	<5
12 Dichloroethane	ug/Kg	<10
111 Trichloroethane	ug/Kg	<5
Carbon Tetrachloride	ug/Kg	<5
Bromodichloromethane	ug/Kg	<5
12 Dichloropropane	ug/Kg	<10
t 13 Dichloropropene	ug/Kg	<10
Trichloroethylene	ug/Kg	<5
Chlorodibromomethane	ug/Kg	<5
112 Trichloroethane	ug/Kg	<10
c 13 Dichloropropene	ug/Kg	<10
2chloroethvinylether	ug/Kg	<10
Bromoform	ug/Kg	<10
1122Tetrachloroethan	ug/Kg	<10
Tetrachloroethene	ug/Kg	<5

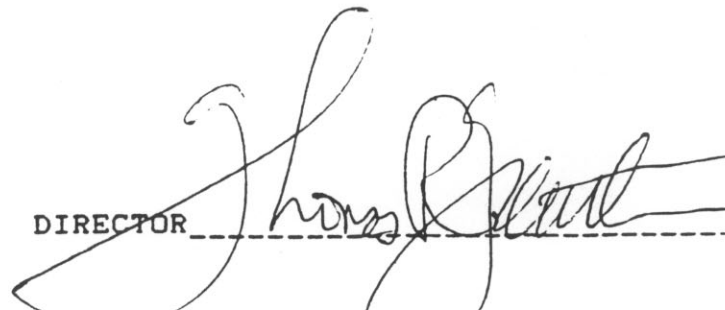
ANALYTICAL PARAMETERS

Chlorobenzene	ug/Kg	<5
13 Dichlorobenzene	ug/Kg	<10
12 Dichlorobenzene	ug/Kg	<10
14 Dichlorobenzene	ug/Kg	<10
Benzene	ug/Kg	<5
Toluene	ug/Kg	<10
Ethyl Benzene	ug/Kg	<5
m Xylene	ug/Kg	<10
o+p Xylene	ug/Kg	<20
acetone	ug/Kg	<100
Methyl Ethyl Ketone	ug/Kg	<100
methylisobutylketone	ug/Kg	<100

cc:

REMARKS:

DIRECTOR



377 SHEFFIELD AVE. • N. BABYLON, N.Y. 11703 • (516) 422-5777

LAB NO. C890707/6

03/28/89

Soil Mechanics
3770 Merrick Rd.
Seaford, NY 11783

ATTN: Mr. Robert Cardinale

PO# 0783

SOURCE OF SAMPLE: Port Washington-Typin Steel, 89-019
COLLECTED BY: Client DATE COL'D:03/13/89 RECEIVED:03/13/89

SAMPLE: Soil Sample, boring #13, 6-8'

ANALYTICAL PARAMETERS

Antimony as Sb	mg/Kg	<0.050
Arsenic as As	mg/Kg	1.0
Beryllium as Be	mg/Kg	0.22
Cadmium as Cd	mg/Kg	0.20
Chromium as Cr	mg/Kg	7.2
Copper as Cu	mg/Kg	7.5
Lead as Pb	mg/Kg	2.2
Mercury as Hg	mg/Kg	0.010
Nickel as Ni	mg/Kg	10
Selenium as Se	mg/Kg	0.13
Silver as Ag	mg/Kg	0.15
Thallium as Tl	mg/Kg	0.070
Zinc as Zn	mg/Kg	38

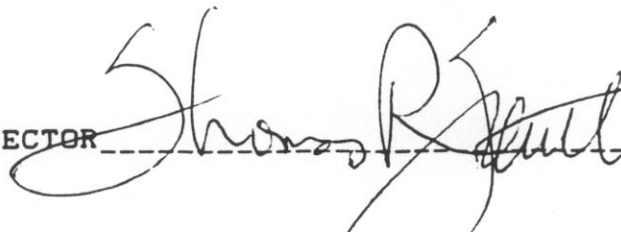
Petrol. Hydrocarbons mg/Kg <16

ANALYTICAL PARAMETERS

cc:

REMARKS:

DIRECTOR



377 SHEFFIELD AVE. • N. BABYLON, N.Y. 11703 • (516) 422-5777

LAB NO. C890707/7

03/28/89

Soil Mechanics
3770 Merrick Rd.
Seaford, NY 11783

ATTN: Mr. Robert Cardinale

PO# 0783

SOURCE OF SAMPLE: Port Washington-Typin Steel, 89-019
COLLECTED BY: Client DATE COL'D: 03/13/89 RECEIVED: 03/13/89

SAMPLE: Soil Sample, boring #15, 4-6'

ANALYTICAL PARAMETERS

Chloromethane	ug/Kg	<5
Bromomethane	ug/Kg	<5
Dichlorodifluomethane	ug/Kg	<5
Vinyl Chloride	ug/Kg	<5
Chloroethane	ug/Kg	<5
Methylene Chloride	ug/Kg	<10
Trichlorofluomethane	ug/Kg	<10
11 Dichloroethene	ug/Kg	<10
11 Dichloroethane	ug/Kg	<10
12 Dichloroethene	ug/Kg	<10
Chloroform	ug/Kg	<5
12 Dichloroethane	ug/Kg	<10
111 Trichloroethane	ug/Kg	<5
Carbon Tetrachloride	ug/Kg	<5
Bromodichloromethane	ug/Kg	<5
12 Dichloropropane	ug/Kg	<10
t 13 Dichloropropene	ug/Kg	<10
Trichloroethylene	ug/Kg	<5
Chlorodibromomethane	ug/Kg	<5
112 Trichloroethane	ug/Kg	<10
c 13 Dichloropropene	ug/Kg	<10
2chloroethvinylether	ug/Kg	<10
Bromoform	ug/Kg	<10
1122Tetrachloroethan	ug/Kg	<10
Tetrachloroethene	ug/Kg	<5

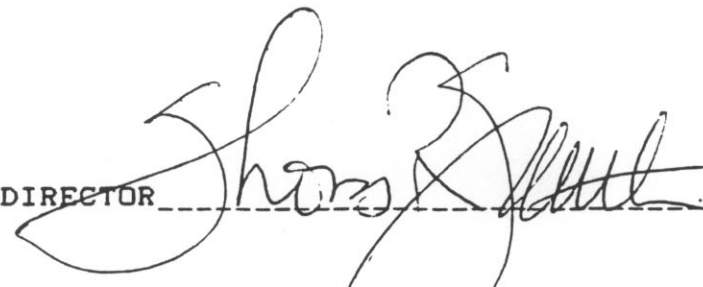
ANALYTICAL PARAMETERS

Chlorobenzene	ug/Kg	<5
13 Dichlorobenzene	ug/Kg	<10
12 Dichlorobenzene	ug/Kg	<10
14 Dichlorobenzene	ug/Kg	<10
Benzene	ug/Kg	<5
Toluene	ug/Kg	<10
Ethyl Benzene	ug/Kg	<5
m Xylene	ug/Kg	<10
o+p Xylene	ug/Kg	<20
acetone	ug/Kg	<100
Methyl Ethyl Ketone	ug/Kg	<100
methylisobutylketone	ug/Kg	<100

cc:

REMARKS:

DIRECTOR



377 SHEFFIELD AVE. • N. BABYLON, N.Y. 11703 • (516) 422-5777

LAB NO. C890707/7

03/28/89

Soil Mechanics
3770 Merrick Rd.
Seaford, NY 11783

ATTN: Mr. Robert Cardinale

PO# 0783

SOURCE OF SAMPLE: Port Washington-Typin Steel, 89-019
COLLECTED BY: Client DATE COL'D: 03/13/89 RECEIVED: 03/13/89

SAMPLE: Soil Sample, boring #15, 4-6'

ANALYTICAL PARAMETERS

Antimony as Sb	mg/Kg	<0.050
Arsenic as As	mg/Kg	0.56
Beryllium as Be	mg/Kg	0.060
Cadmium as Cd	mg/Kg	<0.005
Chromium as Cr	mg/Kg	2.6
Copper as Cu	mg/Kg	3.4
Lead as Pb	mg/Kg	2.7
Mercury as Hg	mg/Kg	<0.005
Nickel as Ni	mg/Kg	3.5
Selenium as Se	mg/Kg	0.067
Silver as Ag	mg/Kg	<0.05
Thallium as Tl	mg/Kg	<0.025
Zinc as Zn	mg/Kg	8.0

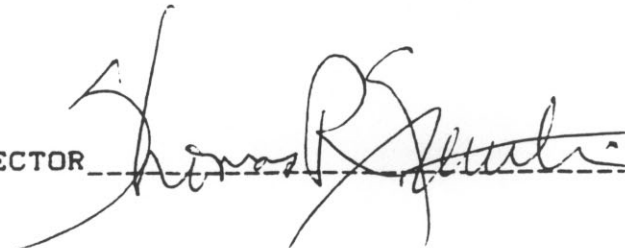
Petrol. Hydrocarbons mg/Kg <16

ANALYTICAL PARAMETERS

cc:

REMARKS:

DIRECTOR



377 SHEFFIELD AVE. • N. BABYLON, N.Y. 11703 • (516) 422-5777

LAB NO. C890758/1

03/31/89

Soil Mechanics
3770 Merrick Rd.
Seaford, NY 11783

ATTN: Mr. Robert Cardinale

0785

SOURCE OF SAMPLE: Port Washington 89-019, Boring #16.
COLLECTED BY: Client DATE COL'D: 03/16/89 RECEIVED: 03/16/89

SAMPLE: Soil Sample, 6-8'.

ANALYTICAL PARAMETERS

Chloromethane	ug/Kg	<5
Bromomethane	ug/Kg	<5
Dichlorodifluomethane	ug/Kg	<5
Vinyl Chloride	ug/Kg	<5
Chloroethane	ug/Kg	<5
Methylene Chloride	ug/Kg	<10
Trichlorofluomethane	ug/Kg	<10
11 Dichloroethene	ug/Kg	<10
11 Dichloroethane	ug/Kg	<10
12 Dichloroethene	ug/Kg	<10
Chloroform	ug/Kg	<5
12 Dichloroethane	ug/Kg	<10
111 Trichloroethane	ug/Kg	<5
Carbon Tetrachloride	ug/Kg	<5
Bromodichloromethane	ug/Kg	<5
12 Dichloropropane	ug/Kg	<10
t 13 Dichloropropene	ug/Kg	<10
Trichloroethylene	ug/Kg	<5
Chlorodibromomethane	ug/Kg	<5
112 Trichloroethane	ug/Kg	<10
c 13 Dichloropropene	ug/Kg	<10
2chloroethvinylether	ug/Kg	<10
Bromoform	ug/Kg	<10
1122Tetrachloroethan	ug/Kg	<10
Tetrachloroethene	ug/Kg	<5

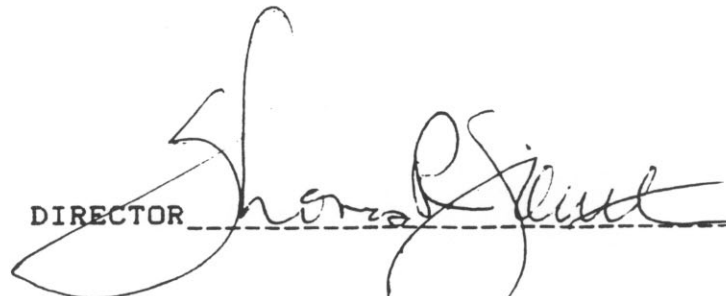
ANALYTICAL PARAMETERS

Chlorobenzene	ug/Kg	<5
13 Dichlorobenzene	ug/Kg	<10
12 Dichlorobenzene	ug/Kg	<10
14 Dichlorobenzene	ug/Kg	<10
Benzene	ug/Kg	<5
Toluene	ug/Kg	<10
Ethyl Benzene	ug/Kg	<5
m Xylene	ug/Kg	<10
o+p Xylene	ug/Kg	<20
acetone	ug/Kg	<100
Methyl Ethyl Ketone	ug/Kg	<100
methylisobutylketone	ug/Kg	<100

cc:

REMARKS: Page 1 of 2.

DIRECTOR



377 SHEFFIELD AVE. • N. BABYLON, N.Y. 11703 • (516) 422-5777

LAB NO. C890758/1

03/31/89

Soil Mechanics
3770 Merrick Rd.
Seaford, NY 11783

ATTN: Mr. Robert Cardinale

0785

SOURCE OF SAMPLE: Port Washington 89-019, Boring #16.
COLLECTED BY: Client DATE COL'D: 03/16/89 RECEIVED: 03/16/89

SAMPLE: Soil Sample, 6-8'.

ANALYTICAL PARAMETERS

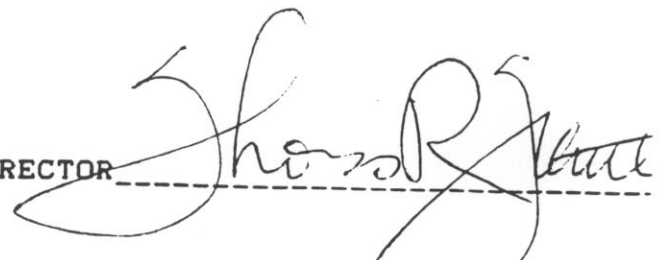
Antimony as Sb	mg/Kg	<0.050
Arsenic as As	mg/Kg	0.93
Beryllium as Be	mg/Kg	0.17
Cadmium as Cd	mg/Kg	0.018
Chromium as Cr	mg/Kg	5.2
Copper as Cu	mg/Kg	4.7
Lead as Pb	mg/Kg	2.0
Mercury as Hg	mg/Kg	<0.005
Nickel as Ni	mg/Kg	5.7
Selenium as Se	mg/Kg	0.19
Silver as Ag	mg/Kg	0.10
Thallium as Tl	mg/Kg	0.085
Zinc as Zn	mg/Kg	12
Petrol. Hydrocarbons	mg/Kg	20

ANALYTICAL PARAMETERS

cc:

REMARKS: Page 2 of 2.

DIRECTOR



377 SHEFFIELD AVE. • N. BABYLON, N.Y. 11703 • (516) 422-5777

LAB NO. C890758/2

03/31/89

Soil Mechanics
3770 Merrick Rd.
Seaford, NY 11783

ATTN: Mr. Robert Cardinale

0785

SOURCE OF SAMPLE: Port Washington 89-019, Boring #17.

COLLECTED BY: Client DATE COL'D: 03/16/89 RECEIVED: 03/16/89

SAMPLE: Soil Sample, 4-6'.

ANALYTICAL PARAMETERS

Chloromethane	ug/Kg	<5
Bromomethane	ug/Kg	<5
Dichlorodifluomethane	ug/Kg	<5
Vinyl Chloride	ug/Kg	<5
Chloroethane	ug/Kg	<5
Methylene Chloride	ug/Kg	<10
Trichlorofluomethane	ug/Kg	<10
11 Dichloroethene	ug/Kg	<10
11 Dichloroethane	ug/Kg	<10
12 Dichloroethene	ug/Kg	<10
Chloroform	ug/Kg	<5
12 Dichloroethane	ug/Kg	<10
111 Trichloroethane	ug/Kg	<5
Carbon Tetrachloride	ug/Kg	<5
Bromodichloromethane	ug/Kg	<5
12 Dichloropropane	ug/Kg	<10
t 13 Dichloropropene	ug/Kg	<10
Trichloroethylene	ug/Kg	<5
Chlorodibromomethane	ug/Kg	<5
112 Trichloroethane	ug/Kg	<10
c 13 Dichloropropene	ug/Kg	<10
2chloroethvinylether	ug/Kg	<10
Bromoform	ug/Kg	<10
1122Tetrachloroethan	ug/Kg	<10
Tetrachloroethene	ug/Kg	11

ANALYTICAL PARAMETERS

Chlorobenzene	ug/Kg	<5
13 Dichlorobenzene	ug/Kg	<10
12 Dichlorobenzene	ug/Kg	<10
14 Dichlorobenzene	ug/Kg	<10
Benzene	ug/Kg	<5
Toluene	ug/Kg	<10
Ethyl Benzene	ug/Kg	<5
m Xylene	ug/Kg	<10
o+p Xylene	ug/Kg	<20
acetone	ug/Kg	<100
Methyl Ethyl Ketone	ug/Kg	<100
methylisobutylketone	ug/Kg	<100

cc:

REMARKS: Page 1 of 2.

DIRECTOR



377 SHEFFIELD AVE. • N. BABYLON, N.Y. 11703 • (516) 422-5777

LAB NO. C890758/2

03/31/89

Soil Mechanics
3770 Merrick Rd.
Seaford, NY 11783

ATTN: Mr. Robert Cardinale

0785

SOURCE OF SAMPLE: Port Washington 89-019, Boring #17.
COLLECTED BY: Client DATE COL'D: 03/16/89 RECEIVED: 03/16/89

SAMPLE: Soil Sample, 4-6'.

ANALYTICAL PARAMETERS

Antimony as Sb	mg/Kg	<0.050
Arsenic as As	mg/Kg	0.80
Beryllium as Be	mg/Kg	0.11
Cadmium as Cd	mg/Kg	0.027
Chromium as Cr	mg/Kg	4.7
Copper as Cu	mg/Kg	4.8
Lead as Pb	mg/Kg	1.6
Mercury as Hg	mg/Kg	<0.005
Nickel as Ni	mg/Kg	7.7
Selenium as Se	mg/Kg	0.088
Silver as Ag	mg/Kg	0.10
Thallium as Tl	mg/Kg	0.060
Zinc as Zn	mg/Kg	36
Petrol. Hydrocarbons	mg/Kg	300

ANALYTICAL PARAMETERS

cc:

REMARKS: Page 2 of 2.

DIRECTOR



377 SHEFFIELD AVE. • N. BABYLON, N.Y. 11703 • (516) 422-5777

LAB NO. C890758/3

03/31/89

Soil Mechanics
3770 Merrick Rd.
Seaford, NY 11783

ATTN: Mr. Robert Cardinale

0785

SOURCE OF SAMPLE: Port Washington 89-019, Boring #18.
COLLECTED BY: Client DATE COL'D: 03/16/89 RECEIVED: 03/16/89

SAMPLE: Soil Sample, 4-6'.

ANALYTICAL PARAMETERS

Chloromethane	ug/Kg	<5
Bromomethane	ug/Kg	<5
Dichlorodifluomethane	ug/Kg	<5
Vinyl Chloride	ug/Kg	<5
Chloroethane	ug/Kg	<5
Methylene Chloride	ug/Kg	<10
Trichlorofluomethane	ug/Kg	<10
11 Dichloroethene	ug/Kg	<10
11 Dichloroethane	ug/Kg	<10
12 Dichloroethene	ug/Kg	<10
Chloroform	ug/Kg	<5
12 Dichloroethane	ug/Kg	<10
111 Trichloroethane	ug/Kg	<5
Carbon Tetrachloride	ug/Kg	<5
Bromodichloromethane	ug/Kg	<5
12 Dichloropropane	ug/Kg	<10
t 13 Dichloropropene	ug/Kg	<10
Trichloroethylene	ug/Kg	<5
Chlorodibromomethane	ug/Kg	<5
112 Trichloroethane	ug/Kg	<10
c 13 Dichloropropene	ug/Kg	<10
2chloroethvinylether	ug/Kg	<10
Bromoform	ug/Kg	<10
1122Tetrachloroethan	ug/Kg	<10
Tetrachloroethene	ug/Kg	<5

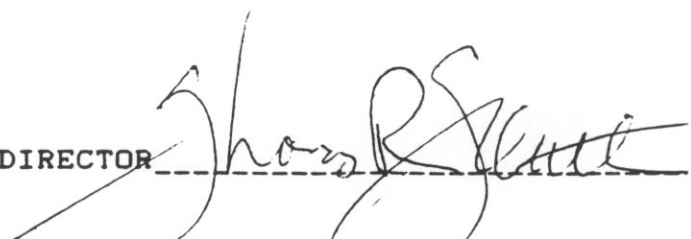
ANALYTICAL PARAMETERS

Chlorobenzene	ug/Kg	<5
13 Dichlorobenzene	ug/Kg	<10
12 Dichlorobenzene	ug/Kg	<10
14 Dichlorobenzene	ug/Kg	<10
Benzene	ug/Kg	<5
Toluene	ug/Kg	<10
Ethyl Benzene	ug/Kg	30
m Xylene	ug/Kg	110
o+p Xylene	ug/Kg	64
acetone	ug/Kg	<100
Methyl Ethyl Ketone	ug/Kg	<100
methylisobutylketone	ug/Kg	<100

cc:

REMARKS: Page 1 of 2.

DIRECTOR



377 SHEFFIELD AVE. • N. BABYLON, N.Y. 11703 • (516) 422-5777

LAB NO. C890758/3

03/31/89

Soil Mechanics
3770 Merrick Rd.
Seaford, NY 11783

ATTN: Mr. Robert Cardinale

0785

SOURCE OF SAMPLE: Port Washington 89-019, Boring #18.

COLLECTED BY: Client DATE COL'D: 03/16/89 RECEIVED: 03/16/89

SAMPLE: Soil Sample, 4-6'.

ANALYTICAL PARAMETERS

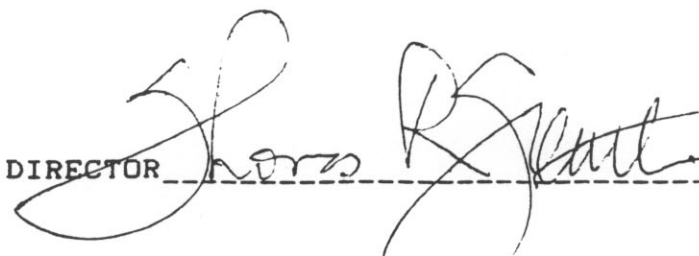
Antimony as Sb	mg/Kg	<0.050
Arsenic as As	mg/Kg	0.62
Beryllium as Be	mg/Kg	0.10
Cadmium as Cd	mg/Kg	0.025
Chromium as Cr	mg/Kg	2.5
Copper as Cu	mg/Kg	3.7
Lead as Pb	mg/Kg	1.7
Mercury as Hg	mg/Kg	<0.005
Nickel as Ni	mg/Kg	2.7
Selenium as Se	mg/Kg	0.065
Silver as Ag	mg/Kg	0.05
Thallium as Tl	mg/Kg	<0.025
Zinc as Zn	mg/Kg	29
Petrol. Hydrocarbons	mg/Kg	<16

ANALYTICAL PARAMETERS

CC:

REMARKS: Page 2 of 2.

DIRECTOR



377 SHEFFIELD AVE. • N. BABYLON, N.Y. 11703 • (516) 422-5777

LAB NO. C890738/1

03/31/89

Soil Mechanics
3770 Merrick Rd.
Seaford, NY 11783

ATTN: Mr. Robert Cardinale

PO# 0784

SOURCE OF SAMPLE: Port Washington, 89-019

COLLECTED BY: Client DATE COL'D: 03/15/89 RECEIVED: 03/15/89

SAMPLE: Soil sample, boring #19, 6-8'

ANALYTICAL PARAMETERS

Chloromethane	ug/Kg	<5
Bromomethane	ug/Kg	<5
Dichlorodifluomethane	ug/Kg	<5
Vinyl Chloride	ug/Kg	<5
Chloroethane	ug/Kg	<5
Methylene Chloride	ug/Kg	<10
Trichlorofluomethane	ug/Kg	<10
11 Dichloroethene	ug/Kg	<10
11 Dichloroethane	ug/Kg	<10
12 Dichloroethene	ug/Kg	<10
Chloroform	ug/Kg	<5
12 Dichloroethane	ug/Kg	<10
111 Trichloroethane	ug/Kg	<5
Carbon Tetrachloride	ug/Kg	<5
Bromodichloromethane	ug/Kg	<5
12 Dichloropropane	ug/Kg	<10
t 13 Dichloropropene	ug/Kg	<10
Trichloroethylene	ug/Kg	<5
Chlorodibromomethane	ug/Kg	<5
112 Trichloroethane	ug/Kg	<10
c 13 Dichloropropene	ug/Kg	<10
2chloroethvinylether	ug/Kg	<10
Bromoform	ug/Kg	<10
1122Tetrachloroethan	ug/Kg	<10
Tetrachloroethene	ug/Kg	<5

ANALYTICAL PARAMETERS

Chlorobenzene	ug/Kg	<5
13 Dichlorobenzene	ug/Kg	<10
12 Dichlorobenzene	ug/Kg	<10
14 Dichlorobenzene	ug/Kg	<10
Benzene	ug/Kg	<5
Toluene	ug/Kg	<10
Ethyl Benzene	ug/Kg	<5
m Xylene	ug/Kg	<10
o+p Xylene	ug/Kg	<20
acetone	ug/Kg	<100
Methyl Ethyl Ketone	ug/Kg	<100
methylisobutylketone	ug/Kg	<100

cc:

REMARKS: Page 1 of 2.

DIRECTOR 

377 SHEFFIELD AVE. • N. BABYLON, N.Y. 11703 • (516) 422-5777

LAB NO. C890738/1

03/31/89

Soil Mechanics
3770 Merrick Rd.
Seaford, NY 11783

ATTN: Mr. Robert Cardinale

PO# 0784

SOURCE OF SAMPLE: Port Washington, 89-019

COLLECTED BY: Client DATE COL'D: 03/15/89 RECEIVED: 03/15/89

SAMPLE: Soil sample, boring #19, 6-8'

ANALYTICAL PARAMETERS

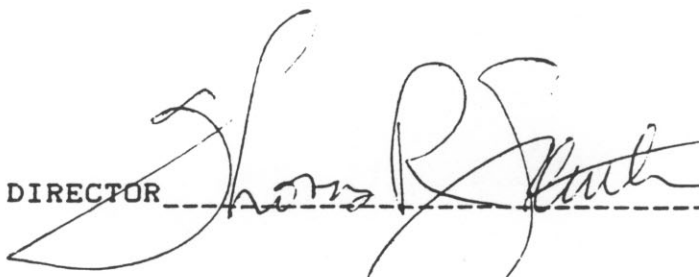
Antimony as Sb	mg/Kg	<0.050
Arsenic as As	mg/Kg	1.1
Beryllium as Be	mg/Kg	0.13
Cadmium as Cd	mg/Kg	0.048
Chromium as Cr	mg/Kg	6.5
Copper as Cu	mg/Kg	4.5
Lead as Pb	mg/Kg	1.4
Mercury as Hg	mg/Kg	0.007
Nickel as Ni	mg/Kg	6.0
Selenium as Se	mg/Kg	0.19
Silver as Ag	mg/Kg	0.10
Thallium as Tl	mg/Kg	0.060
Zinc as Zn	mg/Kg	14
Petrol. Hydrocarbons	mg/Kg	310

ANALYTICAL PARAMETERS

cc:

REMARKS: Page 2 of 2.

DIRECTOR



377 SHEFFIELD AVE. • N. BABYLON, N.Y. 11703 • (516) 422-5777

LAB NO. C890738/4

03/31/89

Soil Mechanics
3770 Merrick Rd.
Seaford, NY 11783

ATTN: Mr. Robert Cardinale

PO# 0784

SOURCE OF SAMPLE: Port Washington, 89-019

COLLECTED BY: Client DATE COL'D:03/15/89 RECEIVED:03/15/89

SAMPLE: Soil sample, boring #20, 6-8'

ANALYTICAL PARAMETERS

Chloromethane	ug/Kg	<5
Bromomethane	ug/Kg	<5
Dichlordifluomethane	ug/Kg	<5
Vinyl Chloride	ug/Kg	<5
Chloroethane	ug/Kg	<5
Methylene Chloride	ug/Kg	<10
Trichlorofluomethane	ug/Kg	<10
11 Dichloroethene	ug/Kg	<10
11 Dichloroethane	ug/Kg	<10
12 Dichloroethene	ug/Kg	<10
Chloroform	ug/Kg	<5
12 Dichloroethane	ug/Kg	<10
111 Trichloroethane	ug/Kg	<5
Carbon Tetrachloride	ug/Kg	<5
Bromodichloromethane	ug/Kg	<5
12 Dichloropropane	ug/Kg	<10
t 13 Dichloropropene	ug/Kg	<10
Trichloroethylene	ug/Kg	<5
Chlorodibromomethane	ug/Kg	<5
112 Trichloroethane	ug/Kg	<10
c 13 Dichloropropene	ug/Kg	<10
2chloroethvinylether	ug/Kg	<10
Bromoform	ug/Kg	<10
1122Tetrachloroethan	ug/Kg	<10
Tetrachloroethene	ug/Kg	<5

ANALYTICAL PARAMETERS

Chlorobenzene	ug/Kg	<5
13 Dichlorobenzene	ug/Kg	<10
12 Dichlorobenzene	ug/Kg	<10
14 Dichlorobenzene	ug/Kg	<10
Benzene	ug/Kg	<5
Toluene	ug/Kg	<10
Ethyl Benzene	ug/Kg	<5
m Xylene	ug/Kg	<10
o+p Xylene	ug/Kg	<20
acetone	ug/Kg	<100
Methyl Ethyl Ketone	ug/Kg	<100
methylisobutylketone	ug/Kg	<100

cc:

REMARKS: Page 1 of 2.

DIRECTOR



377 SHEFFIELD AVE. • N. BABYLON, N.Y. 11703 • (516) 422-5777

LAB NO. C890738/4

03/31/89

Soil Mechanics
3770 Merrick Rd.
Seaford, NY 11783

ATTN: Mr. Robert Cardinale

PO# 0784

SOURCE OF SAMPLE: Port Washington, 89-019

COLLECTED BY: Client DATE COL'D: 03/15/89 RECEIVED: 03/15/89

SAMPLE: Soil sample, boring #20, 6-8'

ANALYTICAL PARAMETERS

Antimony as Sb	mg/Kg	0.060
Arsenic as As	mg/Kg	1.1
Beryllium as Be	mg/Kg	0.23
Cadmium as Cd	mg/Kg	0.12
Chromium as Cr	mg/Kg	9.0
Copper as Cu	mg/Kg	7.5
Lead as Pb	mg/Kg	1.9
Mercury as Hg	mg/Kg	<0.005
Nickel as Ni	mg/Kg	11
Selenium as Se	mg/Kg	0.065
Silver as Ag	mg/Kg	0.15
Thallium as Tl	mg/Kg	0.12
Zinc as Zn	mg/Kg	20
Petrol. Hydrocarbons	mg/Kg	<16

ANALYTICAL PARAMETERS

cc:

REMARKS: Page 2 of 2.

DIRECTOR 

377 SHEFFIELD AVE. • N. BABYLON, N.Y. 11703 • (516) 422-5777

LAB NO. C890758/4

03/31/89

Soil Mechanics
3770 Merrick Rd.
Seaford, NY 11783

ATTN: Mr. Robert Cardinale

0785

SOURCE OF SAMPLE: Port Washington 89-019, Boring #21.
COLLECTED BY: Client DATE COL'D:03/16/89 RECEIVED:03/16/89

SAMPLE: Soil Sample, 8-10'.

ANALYTICAL PARAMETERS

Chloromethane	ug/Kg	<5
Bromomethane	ug/Kg	<5
Dichlorodifluomethane	ug/Kg	<5
Vinyl Chloride	ug/Kg	<5
Chloroethane	ug/Kg	<5
Methylene Chloride	ug/Kg	<10
Trichlorofluomethane	ug/Kg	<10
11 Dichloroethene	ug/Kg	<10
11 Dichloroethane	ug/Kg	<10
12 Dichloroethene	ug/Kg	<10
Chloroform	ug/Kg	<5
12 Dichloroethane	ug/Kg	<10
111 Trichloroethane	ug/Kg	<5
Carbon Tetrachloride	ug/Kg	<5
Bromodichloromethane	ug/Kg	<5
12 Dichloropropane	ug/Kg	<10
t 13 Dichloropropene	ug/Kg	<10
Trichloroethylene	ug/Kg	<5
Chlorodibromomethane	ug/Kg	<5
112 Trichloroethane	ug/Kg	<10
c 13 Dichloropropene	ug/Kg	<10
2chloroethvinylether	ug/Kg	<10
Bromoform	ug/Kg	<10
1122Tetrachloroethan	ug/Kg	<10
Tetrachloroethene	ug/Kg	<5

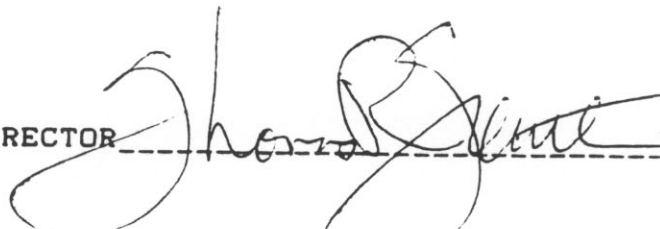
ANALYTICAL PARAMETERS

Chlorobenzene	ug/Kg	<5
13 Dichlorobenzene	ug/Kg	<10
12 Dichlorobenzene	ug/Kg	<10
14 Dichlorobenzene	ug/Kg	<10
Benzene	ug/Kg	<5
Toluene	ug/Kg	15
Ethyl Benzene	ug/Kg	<5
m Xylene	ug/Kg	<10
o+p Xylene	ug/Kg	<20
acetone	ug/Kg	<100
Methyl Ethyl Ketone	ug/Kg	<100
methylisobutylketone	ug/Kg	<100

cc:

REMARKS: Page 1 of 2.

DIRECTOR



377 SHEFFIELD AVE. • N. BABYLON, N.Y. 11703 • (516) 422-5777

LAB NO. C890758/4

03/31/89

Soil Mechanics
3770 Merrick Rd.
Seaford, NY 11783

ATTN: Mr. Robert Cardinale

0785

SOURCE OF SAMPLE: Port Washington 89-019, Boring #21.
COLLECTED BY: Client DATE COL'D: 03/16/89 RECEIVED: 03/16/89

SAMPLE: Soil Sample, 8-10'.

ANALYTICAL PARAMETERS

Antimony as Sb	mg/Kg	<0.050
Arsenic as As	mg/Kg	0.71
Beryllium as Be	mg/Kg	0.22
Cadmium as Cd	mg/Kg	0.37
Chromium as Cr	mg/Kg	5.6
Copper as Cu	mg/Kg	6.0
Lead as Pb	mg/Kg	3.0
Mercury as Hg	mg/Kg	0.015
Nickel as Ni	mg/Kg	6.5
Selenium as Se	mg/Kg	0.12
Silver as Ag	mg/Kg	0.15
Thallium as Tl	mg/Kg	0.060
Zinc as Zn	mg/Kg	26
Petrol. Hydrocarbons	mg/Kg	<16

ANALYTICAL PARAMETERS

cc:

REMARKS: Page 2 of 2.

DIRECTOR



377 SHEFFIELD AVE. • N. BABYLON, N.Y. 11703 • (516) 422-5777

LAB NO. C890738/5

03/31/89

Soil Mechanics
3770 Merrick Rd.
Seaford, NY 11783

ATTN: Mr. Robert Cardinale

PO# 0784

SOURCE OF SAMPLE: Port Washington, 89-019

COLLECTED BY: Client DATE COL'D: 03/15/89 RECEIVED: 03/15/89

SAMPLE: Soil sample, boring #22, 8-10'

ANALYTICAL PARAMETERS

Chloromethane	ug/Kg	<5
Bromomethane	ug/Kg	<5
Dichlorodifluomethane	ug/Kg	<5
Vinyl Chloride	ug/Kg	<5
Chloroethane	ug/Kg	<5
Methylene Chloride	ug/Kg	<10
Trichlorofluomethane	ug/Kg	<10
11 Dichloroethene	ug/Kg	<10
11 Dichloroethane	ug/Kg	<10
12 Dichloroethene	ug/Kg	<10
Chloroform	ug/Kg	<5
12 Dichloroethane	ug/Kg	<10
111 Trichloroethane	ug/Kg	<5
Carbon Tetrachloride	ug/Kg	<5
Bromodichloromethane	ug/Kg	<5
12 Dichloropropane	ug/Kg	<10
t 13 Dichloropropene	ug/Kg	<10
Trichloroethylene	ug/Kg	<5
Chlorodibromomethane	ug/Kg	<5
112 Trichloroethane	ug/Kg	<10
c 13 Dichloropropene	ug/Kg	<10
2chloroethvinylether	ug/Kg	<10
Bromoform	ug/Kg	<10
1122Tetrachloroethan	ug/Kg	<10
Tetrachloroethene	ug/Kg	<5

ANALYTICAL PARAMETERS

Chlorobenzene	ug/Kg	<5
13 Dichlorobenzene	ug/Kg	<10
12 Dichlorobenzene	ug/Kg	<10
14 Dichlorobenzene	ug/Kg	<10
Benzene	ug/Kg	26
Toluene	ug/Kg	<10
Ethyl Benzene	ug/Kg	<5
m Xylene	ug/Kg	<10
o+p Xylene	ug/Kg	<20
acetone	ug/Kg	<100
Methyl Ethyl Ketone	ug/Kg	<100
methylisobutylketone	ug/Kg	<100

cc:

REMARKS: Page 1 of 2.

DIRECTOR

377 SHEFFIELD AVE. • N. BABYLON, N.Y. 11703 • (516) 422-5777

LAB NO. C890738/5

03/31/89

Soil Mechanics
3770 Merrick Rd.
Seaford, NY 11783

ATTN: Mr. Robert Cardinale

PO# 0784

SOURCE OF SAMPLE: Port Washington, 89-019
COLLECTED BY: Client DATE COL'D: 03/15/89 RECEIVED: 03/15/89

SAMPLE: Soil sample, boring #22, 8-10'

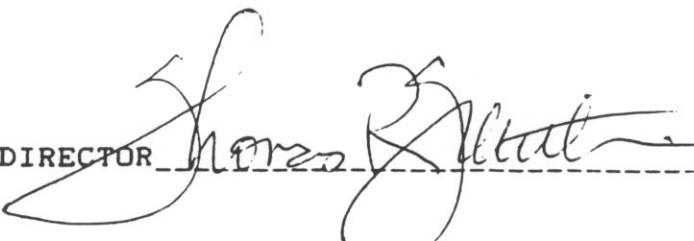
ANALYTICAL PARAMETERS

Antimony as Sb	mg/Kg	<0.050
Arsenic as As	mg/Kg	0.86
Beryllium as Be	mg/Kg	0.15
Cadmium as Cd	mg/Kg	0.017
Chromium as Cr	mg/Kg	8.0
Copper as Cu	mg/Kg	6.0
Lead as Pb	mg/Kg	2.0
Mercury as Hg	mg/Kg	<0.005
Nickel as Ni	mg/Kg	9.0
Selenium as Se	mg/Kg	0.065
Silver as Ag	mg/Kg	0.15
Thallium as Tl	mg/Kg	0.070
Zinc as Zn	mg/Kg	19
Petrol. Hydrocarbons	mg/Kg	<16

ANALYTICAL PARAMETERS

cc:

REMARKS: Page 2 of 2.

DIRECTOR 

377 SHEFFIELD AVE. • N. BABYLON, N.Y. 11703 • (516) 422-5777

LAB NO. C890943/1

04/18/89

Soil Mechanics
3770 Merrick Rd.
Seaford, NY 11783

ATTN: Mr. Robert Cardinale

PO#0792

SOURCE OF SAMPLE: Port Washington, Project #89-019
COLLECTED BY: Client DATE COL'D: 04/03/89 RECEIVED: 04/04/89

SAMPLE: Soil sample, B-90/019, Dry Well #90

ANALYTICAL PARAMETERS

Chloromethane	ug/Kg	<10
Bromomethane	ug/Kg	<10
Dichlordifluomethane	ug/Kg	<10
Vinyl Chloride	ug/Kg	<10
Chloroethane	ug/Kg	<10
Methylene Chloride	ug/Kg	<20
Trichlorofluomethane	ug/Kg	<20
11 Dichloroethene	ug/Kg	<20
11 Dichloroethane	ug/Kg	<20
12 Dichloroethene	ug/Kg	<20
Chloroform	ug/Kg	<10
12 Dichloroethane	ug/Kg	<20
111 Trichloroethane	ug/Kg	<10
Carbon Tetrachloride	ug/Kg	<10
Bromodichloromethane	ug/Kg	<10
12 Dichloropropane	ug/Kg	<20
t 13 Dichloropropene	ug/Kg	<20
Trichloroethylene	ug/Kg	<10
Chlorodibromomethane	ug/Kg	<10
112 Trichloroethane	ug/Kg	<20
c 13 Dichloropropene	ug/Kg	<20
2chloroethvinylether	ug/Kg	<20
Bromoform	ug/Kg	<20
1122Tetrachloroethan	ug/Kg	<20
Tetrachloroethene	ug/Kg	<10

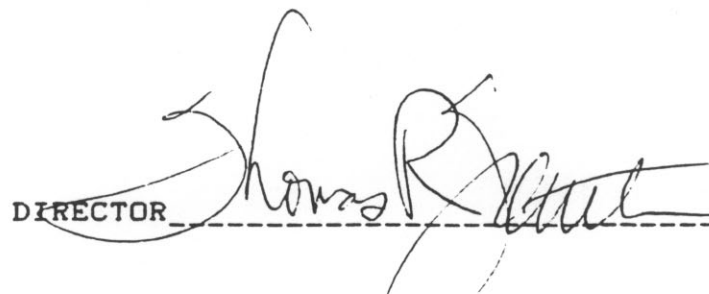
ANALYTICAL PARAMETERS

Chlorobenzene	ug/Kg	<10
13 Dichlorobenzene	ug/Kg	<20
12 Dichlorobenzene	ug/Kg	<20
14 Dichlorobenzene	ug/Kg	<20
Benzene	ug/Kg	<10
Toluene	ug/Kg	170
Ethyl Benzene	ug/Kg	610
m Xylene	ug/Kg	86
o+p Xylene	ug/Kg	1900
Methyl Ethyl Ketone	ug/Kg	<200
Acetone	ug/Kg	<200
methylisobutylketone	ug/Kg	<200

cc:

REMARKS: Page 1 of 2.

DIRECTOR



377 SHEFFIELD AVE. • N. BABYLON, N.Y. 11703 • (516) 422-5777

LAB NO. C890943/1

04/18/89

Soil Mechanics
3770 Merrick Rd.
Seaford, NY 11783

ATTN: Mr. Robert Cardinale

PO#0792

SOURCE OF SAMPLE: Port Washington, Project #89-019
COLLECTED BY: Client DATE COL'D: 04/03/89 RECEIVED: 04/04/89

SAMPLE: Soil sample, B-90/019, Dry Well #90

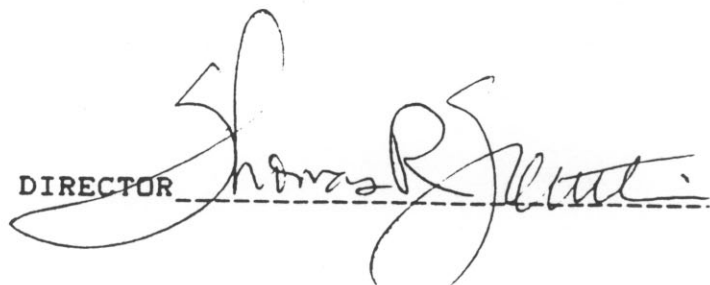
ANALYTICAL PARAMETERS

Antimony as Sb	mg/Kg	2.4
Arsenic as As	mg/Kg	4.3
Beryllium as Be	mg/Kg	0.040
Cadmium as Cd	mg/Kg	7.0
Chromium as Cr	mg/Kg	29
Copper as Cu	mg/Kg	5200
Lead as Pb	mg/Kg	360
Mercury as Hg	mg/Kg	0.12
Nickel as Ni	mg/Kg	65
Selenium as Se	mg/Kg	0.17
Silver as Ag	mg/Kg	5.0
Thallium as Tl	mg/Kg	<0.025
Zinc as Zn	mg/Kg	1500
Petrol. Hydrocarbons	mg/Kg	44000

ANALYTICAL PARAMETERS

cc:

REMARKS: Page 2 of 2.

DIRECTOR 

377 SHEFFIELD AVE. • N. BABYLON, N.Y. 11703 • (516) 422-5777

LAB NO. C890943/2

04/18/89

Soil Mechanics
3770 Merrick Rd.
Seaford, NY 11783

ATTN: Mr. Robert Cardinale

PO#0792

SOURCE OF SAMPLE: Port Washington, Project #89-019
COLLECTED BY: Client DATE COL'D: 04/03/89 RECEIVED: 04/04/89

SAMPLE: Soil sample, B-100/016, Barrel Storage

ANALYTICAL PARAMETERS

Chloromethane	ug/Kg	<5
Bromomethane	ug/Kg	<5
Dichlorodifluomethane	ug/Kg	<5
Vinyl Chloride	ug/Kg	<5
Chloroethane	ug/Kg	<5
Methylene Chloride	ug/Kg	<10
Trichlorofluomethane	ug/Kg	<10
11 Dichloroethene	ug/Kg	<10
11 Dichloroethane	ug/Kg	<10
12 Dichloroethene	ug/Kg	<10
Chloroform	ug/Kg	<5
12 Dichloroethane	ug/Kg	<10
111 Trichloroethane	ug/Kg	<5
Carbon Tetrachloride	ug/Kg	<5
Bromodichloromethane	ug/Kg	<5
12 Dichloropropane	ug/Kg	<10
t 13 Dichloropropene	ug/Kg	<10
Trichloroethylene	ug/Kg	<5
Chlorodibromomethane	ug/Kg	<5
112 Trichloroethane	ug/Kg	<10
c 13 Dichloropropene	ug/Kg	<10
2chloroethvinylether	ug/Kg	<10
Bromoform	ug/Kg	<10
1122Tetrachloroethan	ug/Kg	<10
Tetrachloroethene	ug/Kg	11

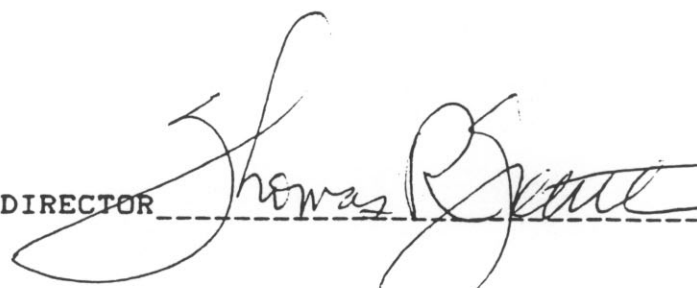
ANALYTICAL PARAMETERS

Chlorobenzene	ug/Kg	<10
13 Dichlorobenzene	ug/Kg	<10
12 Dichlorobenzene	ug/Kg	<10
14 Dichlorobenzene	ug/Kg	<10
Benzene	ug/Kg	<5
Toluene	ug/Kg	<10
Ethyl Benzene	ug/Kg	<5
m Xylene	ug/Kg	<10
o+p Xylene	ug/Kg	<20
Methyl Ethyl Ketone	ug/Kg	<100
Acetone	ug/Kg	<100
methylisobutylketone	ug/Kg	<100

cc:

REMARKS: Page 1 of 2.

DIRECTOR



377 SHEFFIELD AVE. • N. BABYLON, N.Y. 11703 • (516) 422-5777

LAB NO. C890943/2

04/18/89

Soil Mechanics
3770 Merrick Rd.
Seaford, NY 11783

ATTN: Mr. Robert Cardinale

PO#0792

SOURCE OF SAMPLE: Port Washington, Project #89-019
COLLECTED BY: Client DATE COL'D: 04/03/89 RECEIVED: 04/04/89

SAMPLE: Soil sample, B-100/016, Barrel Storage

ANALYTICAL PARAMETERS

Antimony as Sb	mg/Kg	<0.050
Arsenic as As	mg/Kg	2.2
Beryllium as Be	mg/Kg	0.13
Cadmium as Cd	mg/Kg	0.19
Chromium as Cr	mg/Kg	7.5
Copper as Cu	mg/Kg	20
Lead as Pb	mg/Kg	8.5
Mercury as Hg	mg/Kg	<0.005
Nickel as Ni	mg/Kg	22
Selenium as Se	mg/Kg	0.20
Silver as Ag	mg/Kg	2.8
Thallium as Tl	mg/Kg	<0.025
Zinc as Zn	mg/Kg	100

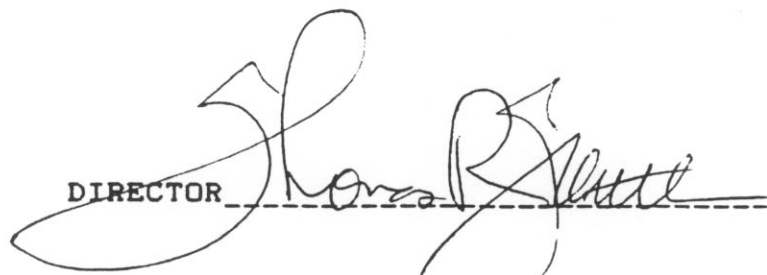
Petrol. Hydrocarbons mg/Kg 140000

ANALYTICAL PARAMETERS

cc:

REMARKS: Page 2 of 2.

DIRECTOR



377 SHEFFIELD AVE. • N. BABYLON, N.Y. 11703 • (516) 422-5777

LAB NO. C890943/3

04/18/89

Soil Mechanics
3770 Merrick Rd.
Seaford, NY 11783

ATTN: Mr. Robert Cardinale

PO#0792

SOURCE OF SAMPLE: Port Washington, Project #89-019
COLLECTED BY: Client DATE COL'D: 04/03/89 RECEIVED: 04/04/89

SAMPLE: Soil sample, B-110/019, Dry Well #110

ANALYTICAL PARAMETERS

Chloromethane	ug/Kg	<5
Bromomethane	ug/Kg	<5
Dichlorodifluomethane	ug/Kg	<5
Vinyl Chloride	ug/Kg	<5
Chloroethane	ug/Kg	<5
Methylene Chloride	ug/Kg	<10
Trichlorofluomethane	ug/Kg	<10
11 Dichloroethene	ug/Kg	<10
11 Dichloroethane	ug/Kg	<10
12 Dichloroethene	ug/Kg	<10
Chloroform	ug/Kg	<5
12 Dichloroethane	ug/Kg	<10
111 Trichloroethane	ug/Kg	<5
Carbon Tetrachloride	ug/Kg	<5
Bromodichloromethane	ug/Kg	<5
12 Dichloropropane	ug/Kg	<10
t 13 Dichloropropene	ug/Kg	<10
Trichloroethylene	ug/Kg	<5
Chlorodibromomethane	ug/Kg	<5
112 Trichloroethane	ug/Kg	<10
c 13 Dichloropropene	ug/Kg	<10
2chloroethvinylether	ug/Kg	<10
Bromoform	ug/Kg	<10
1122Tetrachloroethan	ug/Kg	<10
Tetrachloroethene	ug/Kg	<5

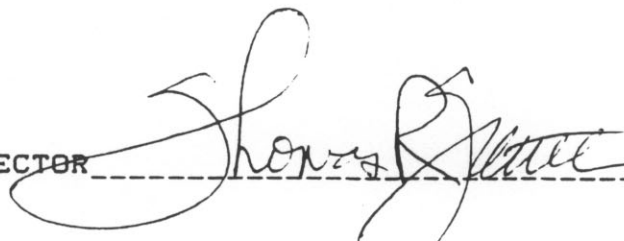
ANALYTICAL PARAMETERS

Chlorobenzene	ug/Kg	<10
13 Dichlorobenzene	ug/Kg	<10
12 Dichlorobenzene	ug/Kg	<10
14 Dichlorobenzene	ug/Kg	<10
Benzene	ug/Kg	<5
Toluene	ug/Kg	<10
Ethyl Benzene	ug/Kg	<5
m Xylene	ug/Kg	<10
o+p Xylene	ug/Kg	<20
Methyl Ethyl Ketone	ug/Kg	<100
Acetone	ug/Kg	<100
methylisobutylketone	ug/Kg	<100

cc:

REMARKS: Page 1 of 2.

DIRECTOR



377 SHEFFIELD AVE. • N. BABYLON, N.Y. 11703 • (516) 422-5777

LAB NO. C890943/3

04/18/89

Soil Mechanics
3770 Merrick Rd.
Seaford, NY 11783

ATTN: Mr. Robert Cardinale

PO#0792

SOURCE OF SAMPLE: Port Washington, Project #89-019
COLLECTED BY: Client DATE COL'D: 04/03/89 RECEIVED: 04/04/89

SAMPLE: Soil sample, B-110/019, Dry Well #110

ANALYTICAL PARAMETERS

Antimony as Sb	mg/Kg	<0.050
Arsenic as As	mg/Kg	5.6
Beryllium as Be	mg/Kg	0.12
Cadmium as Cd	mg/Kg	1.7
Chromium as Cr	mg/Kg	130
Copper as Cu	mg/Kg	17
Lead as Pb	mg/Kg	130
Mercury as Hg	mg/Kg	0.049
Nickel as Ni	mg/Kg	130
Selenium as Se	mg/Kg	0.16
Silver as Ag	mg/Kg	1.6
Thallium as Tl	mg/Kg	<0.025
Zinc as Zn	mg/Kg	860
Petrol. Hydrocarbons	mg/Kg	1100

ANALYTICAL PARAMETERS

cc:

REMARKS: Page 2 of 2.

DIRECTOR 

377 SHEFFIELD AVE. • N. BABYLON, N.Y. 11703 • (516) 422-5777

LAB NO. C891134

05/08/89

Soil Mechanics
3770 Merrick Rd.
Seaford, NY 11783

ATTN: Mr. Robert Cardinale

PO #0318

SOURCE OF SAMPLE: Port Washington, Project #89-019
COLLECTED BY: Client DATE COL'D: 04/17/89 RECEIVED: 04/18/89

SAMPLE: Soil Sample, B-120/019, Hexagonal Dry Well

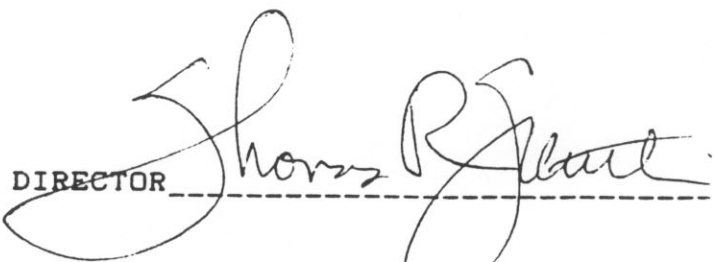
ANALYTICAL PARAMETERS

Antimony as Sb	mg/Kg	<0.20
Arsenic as As	mg/Kg	5.1
Beryllium as Be	mg/Kg	0.12
Cadmium as Cd	mg/Kg	2.1
Chromium as Cr	mg/Kg	29
Copper as Cu	mg/Kg	620
Lead as Pb	mg/Kg	310
Mercury as Hg	mg/Kg	0.045
Nickel as Ni	mg/Kg	60
Selenium as Se	mg/Kg	0.51
Silver as Ag	mg/Kg	1.1
Thallium as Tl	mg/Kg	0.090
Zinc as Zn	mg/Kg	1000
Petrol. Hydrocarbons	mg/Kg	620

ANALYTICAL PARAMETERS

cc:

REMARKS: Page 1 of 2.

DIRECTOR 

377 SHEFFIELD AVE. • N. BABYLON, N.Y. 11703 • (516) 422-5777

LAB NO. 0291134

05/08/89

Soil Mechanics
3770 Merrick Rd.
Seaford, NY 11783

ATTN: Mr. Robert Cardinale

PO #0312

SOURCE OF SAMPLE: Port Washington, Project #89-019
COLLECTED BY: Client DATE COL'D: 04/17/89 RECEIVED: 04/18/89

SAMPLE: Soil Sample, B-120/019, Hexagonal Dry Well

ANALYTICAL PARAMETERS

Antimony as Sb	mg/Kg	<0.20
Arsenic as As	mg/Kg	5.1
Beryllium as Be	mg/Kg	0.12
Cadmium as Cd	mg/Kg	2.1
Chromium as Cr	mg/Kg	29
Copper as Cu	mg/Kg	620
Lead as Pb	mg/Kg	310
Mercury as Hg	mg/Kg	0.045
Nickel as Ni	mg/Kg	60
Selenium as Se	mg/Kg	0.51
Silver as Ag	mg/Kg	1.1
Thallium as Tl	mg/Kg	0.090
Zinc as Zn	mg/Kg	1000

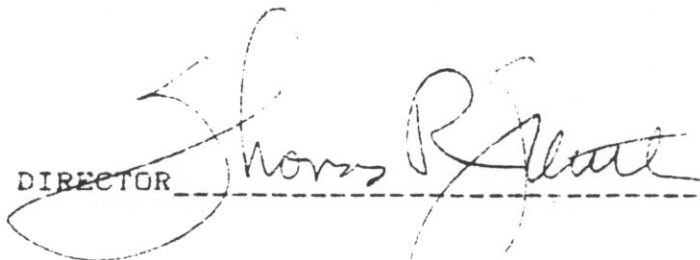
Petrol. Hydrocarbons mg/Kg 520

ANALYTICAL PARAMETERS

cc:

REMARKS: Page 1 of 2.

DIRECTOR



377 SHEFFIELD AVE. • N. BABYLON, N.Y. 11703 • (516) 422-5777

LAB NO. C891134

05/08/89

Soil Mechanics
3770 Merrick Rd.
Seaford, NY 11783

ATTN: Mr. Robert Cardinale

PO #0318

SOURCE OF SAMPLE: Port Washington, Project #89-019
COLLECTED BY: Client DATE COL'D: 04/17/89 RECEIVED: 04/18/89

SAMPLE: Soil Sample, B-120/019, Hexagonal Dry Well

ANALYTICAL PARAMETERS

Chloromethane	ug/Kg	<5
Bromomethane	ug/Kg	<5
Dichlorodifluomethane	ug/Kg	<5
Vinyl Chloride	ug/Kg	<5
Chloroethane	ug/Kg	<5
Methylene Chloride	ug/Kg	<10
Trichlorofluomethane	ug/Kg	<10
11 Dichloroethene	ug/Kg	<10
11 Dichloroethane	ug/Kg	<10
12 Dichloroethene	ug/Kg	<10
Chloroform	ug/Kg	<5
12 Dichloroethane	ug/Kg	<10
111 Trichloroethane	ug/Kg	<5
Carbon Tetrachloride	ug/Kg	<5
Bromodichloromethane	ug/Kg	<5
12 Dichloropropane	ug/Kg	<10
t 13 Dichloropropene	ug/Kg	<10
Trichloroethylene	ug/Kg	<5
Chlorodibromomethane	ug/Kg	<5
112 Trichloroethane	ug/Kg	<10
c 13 Dichloropropene	ug/Kg	<10
2chloroethvinylether	ug/Kg	<10
Bromoform	ug/Kg	<10
1122Tetrachloroethan	ug/Kg	<10
Tetrachloroethene	ug/Kg	6

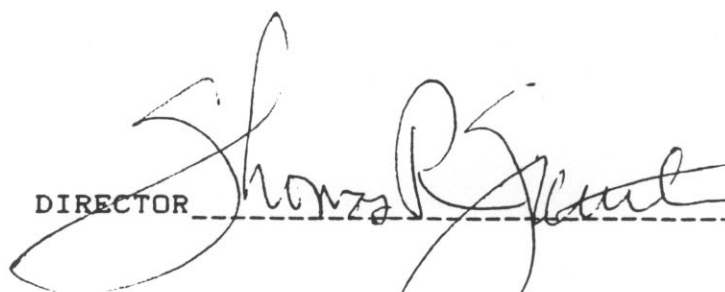
ANALYTICAL PARAMETERS

Chlorobenzene	ug/Kg	<5
13 Dichlorobenzene	ug/Kg	<10
12 Dichlorobenzene	ug/Kg	<10
14 Dichlorobenzene	ug/Kg	<10
Benzene	ug/Kg	<5
Toluene	ug/Kg	<10
Ethyl Benzene	ug/Kg	<5
m Xylene	ug/Kg	<10
o+p Xylene	ug/Kg	<20
Acetone	ug/Kg	<100
Methyl Ethyl Ketone	ug/Kg	<100
methylisobutylketone	ug/Kg	<100

cc:

REMARKS: Page 2 of 2.

DIRECTOR



377 SHEFFIELD AVE. • N. BABYLON, N.Y. 11703 • (516) 422-5777

LAB NO. 3391134

04/18/89

Soil Mechanics
3770 Merrick Rd.
Seaford, NY 11783

ATTN: Mr. Robert Cardinale

PO #0318

SOURCE OF SAMPLE: Port Washington, Project #89-019
COLLECTED BY: Client DATE COL'D: 04/17/89 RECEIVED: 04/18/89

SAMPLE: Soil Sample, B-120/019, Hexagonal Dry Well

ANALYTICAL PARAMETERS

Chloromethane	ug/Kg	<5
Bromomethane	ug/Kg	<5
Dichlorodifluomethane	ug/Kg	<5
Vinyl Chloride	ug/Kg	<5
Chloroethane	ug/Kg	<5
Methylene Chloride	ug/Kg	<10
Trichlorofluomethane	ug/Kg	<10
1,1 Dichloroethene	ug/Kg	<10
1,1 Dichloroethane	ug/Kg	<10
1,2 Dichloroethene	ug/Kg	<10
Chloroform	ug/Kg	<5
1,2 Dichloroethane	ug/Kg	<10
1,1,1 Trichloroethane	ug/Kg	<5
Carbon Tetrachloride	ug/Kg	<5
Bromodichloromethane	ug/Kg	<5
1,2 Dichloropropane	ug/Kg	<10
1,3 Dichloropropene	ug/Kg	<10
Trichloroethylene	ug/Kg	<5
Chlorodibromomethane	ug/Kg	<5
1,1,2 Trichloroethane	ug/Kg	<10
1,3 Dichloropropene	ug/Kg	<10
Tetrachloroethylnetane	ug/Kg	<10
Perchloroethane	ug/Kg	<10
1,1,2,2 Tetrachloroethane	ug/Kg	<10
Tetrachloroethene	ug/Kg	5

ANALYTICAL PARAMETERS

Chlorobenzene	ug/Kg	<5
1,3 Dichlorobenzene	ug/Kg	<10
1,2 Dichlorobenzene	ug/Kg	<10
1,4 Dichlorobenzene	ug/Kg	<10
Benzene	ug/Kg	<5
Toluene	ug/Kg	<10
Ethyl Benzene	ug/Kg	<5
m Xylene	ug/Kg	<10
o+p Xylene	ug/Kg	<20
Acetone	ug/Kg	<100
Methyl Ethyl Ketone	ug/Kg	<100
methylisobutylketone	ug/Kg	<100

cc:

REMARKS: Page 2 of 2.

DIRECTOR

SOIL MECHANICS

3770 MERRICK ROAD • SEAFORD, L. I., NEW YORK 11783 • (516) 221-2333

CHAIN OF CUSTODY

LABORATORY: ECOTEST CMAS

PROJECT NAME:				PROJECT NO.		ANALYSIS											AGENT:		
Port Wash - 7 1/2" ID STEEL				87-019															
SAMPLE ID. NUMBER	DATE	TIME	NO. OF	MATRIX	SAMPLE LOCATION	CONTAINER	P.P. METALS	LEAD	THYR	CRANIO	VA	BY	PC	POST.	HDR	AE	BN	OTHER	ADDITIONAL REQUIREMENTS
B-17/01/68	3/10/68		1	Soil	Boring #7 6-8'	2	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	60, 600 + Reproc.
B-11/01/68	3/13/68		1		Boring #11 2-4'	2	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	
B-2/01/68			1		Boring #9 6-8'	2	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	
B-10/01/66			1		Boring #8 4-6'	2	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	
B-5/01/67			1		Boring #5 5-7'	2	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	
B-12/01/68			1		Boring #13 6-8'	2	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	
B-15/01/66			1		Boring #15 4-6'	2	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	
RELINQUISHED BY (SIGNATURE)				AGENT OF:		RECD. BY (SIGNATURE)		DATE/TIME		AGENT:		PRINTED NAME		DATE/TIME		AGENT:		REMARKS	
REL BY (SRG)				AGENT OF:		RECD. BY (SIGN.)		DATE/TIME		AGENT:		PRINTED NAME		DATE/TIME		AGENT:		REMARKS	
PRINT. NAME				AGENT OF:		RECD. BY (SIGN.)		DATE/TIME		AGENT:		PRINT. NAME		DATE/TIME		AGENT:		REMARKS	
REL <i>[Signature]</i>				RECEIVED FOR LAB BY:		DATE/TIME		DATE/TIME		AGENT:		PRINT. NAME		DATE/TIME		AGENT:		REMARKS	
PRINT. NAME <i>[Signature]</i>				PRINT. NAME		DATE/TIME		DATE/TIME		AGENT:		PRINT. NAME		DATE/TIME		AGENT:		REMARKS	
SAMPLER (SIGNATURE) <i>[Signature]</i>				SAMPLER NAME (PRINT) <i>Robert Stinson</i>		DATE/TIME		DATE/TIME		AGENT:		PRINT. NAME		DATE/TIME		AGENT:		REMARKS	
PRINT. NAME <i>[Signature]</i>				SAMPLER NAME (PRINT) <i>Robert Stinson</i>		DATE/TIME		DATE/TIME		AGENT:		PRINT. NAME		DATE/TIME		AGENT:		REMARKS	
SAMPLER (SIGNATURE) <i>[Signature]</i>				SAMPLER NAME (PRINT) <i>Robert Stinson</i>		DATE/TIME		DATE/TIME		AGENT:		PRINT. NAME		DATE/TIME		AGENT:		REMARKS	
PRINT. NAME <i>[Signature]</i>				SAMPLER NAME (PRINT) <i>Robert Stinson</i>		DATE/TIME		DATE/TIME		AGENT:		PRINT. NAME		DATE/TIME		AGENT:		REMARKS	

REMARKS: *PO # 0783*

RECEIVED FOR LAB BY: *[Signature]*

DATE/TIME: *3/15/69 1705*

SAMPLER NAME (PRINT): *Robert Stinson*

SOIL MECHANICS

3770 MERRICK ROAD • SEAFORD, L. I., NEW YORK 11783 • (516) 221-2333

CHAIN OF CUSTODY

LABORATORY: ECOTEST LABS

PROJECT NAME:		PROJECT NO.		ANALYSIS										REMARKS:									
<u>Point A</u>		<u>89-019</u>		DATE	TIME	NO. OF	MATRIX	SAMPLE LOCATION	NUMBER OF CONTAINERS	P.P. METALS	LEAD	THM	CRANDE	VA	BTX	PCB	PEST.	HERB.	AZE	ISN	OTHER	ADDITIONAL REQUIREMENTS	AGENT:
19/09/68	3/15/89	>	Soil	Bay #19	6-8'	2			>	>	>	>	>	>	>	>	>	>	>	>	>	601602+Kefowr	
24/09/68	3/15/89	>		Bay #24	0-2'	2			>	>	>	>	>	>	>	>	>	>	>	>	>		
3/09/84	3/15/89	>		Bay #3	2-4'	2			>	>	>	>	>	>	>	>	>	>	>	>	>		
20/09/68	3/15/89	>		Bay #20	6-8'	2			>	>	>	>	>	>	>	>	>	>	>	>	>		
22/09/80	3/15/89	>		Bay #22	8-10'	2			>	>	>	>	>	>	>	>	>	>	>	>	>		
1/01/84	3/14/89	>		Bay #1	2-4'	2			>	>	>	>	>	>	>	>	>	>	>	>	>		
3/09/84	3/14/89	>		Bay #4	4-6'	2			>	>	>	>	>	>	>	>	>	>	>	>	>		
1/01/84	3/14/89	>		Bay #2	10-12'	2			>	>	>	>	>	>	>	>	>	>	>	>	>		

ISSUED BY (SIGNATURE)	AGENT OF:	DATE/TIME	RECD. BY (SIGNATURE)	AGENT:	DATE/TIME
PRINTED NAME	AGENT OF:	DATE/TIME	RECD. BY (SIGN)	AGENT:	DATE/TIME
BY (SIG.)	RECEIVED FOR LAB BY:	DATE/TIME	DATE/TIME	DATE/TIME	DATE/TIME
	<u>Kurt J. Stalton</u>	3/8/89	3/15/89	500	
T. NAME	PRINT NAME				
	<u>Kurt J. Stalton</u>				
	SAMPLER NAME (PRINT)				
	<u>KURT J. STALTON</u>				

REMARKS: PO
0784

APPENDIX 4

SUBSOIL
INVESTIGATIONS



SOIL MECHANICS

3770 MERRICK ROAD • SEAFORD, L. I.,
NEW YORK 11783 • (516) 221-2333

HEAD SPACE ORGANIC VAPOR ANALYSIS

JOB # 89-019
JOB LOCATION: PORT WASHINGTON, N.Y. (THYPIN STEEL)
DATE OF BORINGS: 3-14-89
DATE OF TESTING: 3-14-89
INSTRUMENT: FOXBORO CENTURY OVA 128 GC
 HNU PHOTO-IONIZER P I - 101/1.7

BORING # B-1

SAMPLE #	DEPTH (FT.)	DETECTION RANGE	DETECTED CONCENTRATION (PPM)
1	0 - 2'	0 - 10	N D
2	2 - 4'	0 - 10	N D
3	4 - 6'	0 - 10	N D
4	6 - 8'	0 - 10	N D
5	8 - 10'	0 - 10	N D

ND = NOT DETECTED
*LABORATORY ANALYSIS

INSPECTOR Kurt Shoblom

SUBSOIL
INVESTIGATIONS



SOIL MECHANICS

3770 MERRICK ROAD • SEAFORD, L. I.,
NEW YORK 11783 • (516) 221-2333

HEAD SPACE ORGANIC VAPOR ANALYSIS

JOB # 89-019
JOB LOCATION: PORT WASHINGTON, N. Y. (THYPIN STEEL)
DATE OF BORINGS: 3-14-89
DATE OF TESTING: 3-14-89
INSTRUMENT: FOXBORO CENTURY OVA 128 GC
 HNU PHOTO-IONIZER P I - 101/1.7

BORING # B-2

SAMPLE #	DEPTH (FT.)	DETECTION RANGE	DETECTED CONCENTRATION (PPM)
1	0 - 2'	0 - 10	N D
2	2 - 4'	0 - 10	N D
3	4 - 6'	0 - 10	N D
4	6 - 8'	0 - 10	N D
5	8 - 10'	0 - 10	N D
6	10 - 12'	0 - 10	N D

ND = NOT DETECTED
*LABORATORY ANALYSIS

INSPECTOR Kurt Shoblom

SUBSOIL
INVESTIGATIONS



SOIL MECHANICS

3770 MERRICK ROAD • SEAFORD, L. I.,
NEW YORK 11783 • (516) 221-2333

HEAD SPACE ORGANIC VAPOR ANALYSIS

JOB # 89-019
JOB LOCATION: PORT WASHINGTON, N.Y. (THYPIN STEEL)
DATE OF BORINGS: 3-15-89
DATE OF TESTING: 3-15-89
INSTRUMENT: FOXBORO CENTURY OVA 128 GC
 HNU PHOTO-IONIZER P I - 101/1 I.7

BORING # B-3

SAMPLE #	DEPTH (FT.)	DETECTION RANGE	DETECTED CONCENTRATION (PPM)
1	0 - 2'	0 - 10	N D
2	2 - 4'	0 - 10	N D
3	4 - 6'	0 - 10	N D
4	6 - 8'	0 - 10	N D
5	8 - 10'	0 - 10	N D

ND = NOT DETECTED
*LABORATORY ANALYSIS

INSPECTOR Kurt Shoblom



SOIL MECHANICS

3770 MERRICK ROAD • SEAFORD, L. I.,
NEW YORK 11783 • (516) 221-2333

HEAD SPACE ORGANIC VAPOR ANALYSIS

JOB # 89-019
 JOB LOCATION: PORT WASHINGTON, N.Y. (THYPIN STEEL)
 DATE OF BORINGS: 3-14-89
 DATE OF TESTING: 3-14-89
 INSTRUMENT: FOXBORO CENTURY OVA 128 GC
 HNU PHOTO-IONIZER P 1 - 101/1 1.7

BORING # B-4

SAMPLE #	DEPTH (FT.)	DETECTION RANGE	DETECTED CONCENTRATION (PPM)
1	0 - 2'	0 - 10	N D
2	2 - 4'	0 - 10	N D
3	4 - 6'	0 - 10	N D
4	6 - 8'	0 - 10	N D
5	8 - 10'	0 - 10	N D

ND = NOT DETECTED
 *LABORATORY ANALYSIS

INSPECTOR Kurt Shoblom

SUBSOIL
INVESTIGATIONS



SOIL MECHANICS

3770 MERRICK ROAD • SEAFORD, L. I.,
NEW YORK 11783 • (516) 221-2333

HEAD SPACE ORGANIC VAPOR ANALYSIS

JOB # 89-019
JOB LOCATION: PORT WASHINGTON, N.Y. (THYPIN STEEL)
DATE OF BORINGS: 3-13-89
DATE OF TESTING: 3-13-89
INSTRUMENT: FOXBORO CENTURY OVA 128 GC
 HNU PHOTO-IONIZER P 1 - 101/1.7

BORING # B-5

SAMPLE #	DEPTH (FT.)	DETECTION RANGE	DETECTED CONCENTRATION (PPM)
1	0 - 2'	0 - 10	N D
2	5 - 7'	0 - 10	N D
3	10 - 12'	0 - 10	N D

ND = NOT DETECTED
*LABORATORY ANALYSIS

INSPECTOR Kurt Shoblom

SUBSOIL
VESTIGATIONS



SOIL MECHANICS

3770 MERRICK ROAD • SEAFORD, L. I.,
NEW YORK 11783 • (516) 221-2333

HEAD SPACE ORGANIC VAPOR ANALYSIS

JOB # 89-019
JOB LOCATION: PORT WASHINGTON, N.Y. (THYPIN STEEL)
DATE OF BORINGS: 3-10-89
DATE OF TESTING: 3-13-89
INSTRUMENT: FOXBORO CENTURY OVA 128 GC
 HNU PHOTO-IONIZER P 1 - 101/1 1.7

BORING # B-7

SAMPLE #	DEPTH (FT.)	DETECTION RANGE	DETECTED CONCENTRATION (PPM)
1	0 - 2'	0 - 10	N D
2	2 - 4'	0 - 10	N D
3	4 - 6'	0 - 10	N D
4	6 - 8'	0 - 10	N D
5	8 - 10'	0 - 10	N D

ND = NOT DETECTED
*LABORATORY ANALYSIS

INSPECTOR Kurt Shoblom



SOIL MECHANICS

3770 MERRICK ROAD • SEAFORD, L. I.,
NEW YORK 11783 • (516) 221-2333

HEAD SPACE ORGANIC VAPOR ANALYSIS

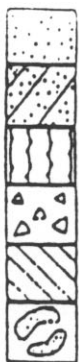
JOB # 89-019
 JOB LOCATION: PORT WASHINGTON, N.Y. (THYPIN STEEL)
 DATE OF BORINGS: 3-13-89
 DATE OF TESTING: 3-13-89
 INSTRUMENT: FOXBORO CENTURY OVA 128 GC
 HNU PHOTO-IONIZER P I - 101/1 L7

BORING # B-8

SAMPLE #	DEPTH (FT.)	DETECTION RANGE	DETECTED CONCENTRATION (PPM)
1	0 - 2'	0 - 10	N D
2	2 - 4'	0 - 10	N D
3	4 - 6'	0 - 10	N D
4	6 - 8'	0 - 10	N D
5	8 - 10'	0 - 10	N D

ND = NOT DETECTED
 *LABORATORY ANALYSIS

INSPECTOR Kurt Shoblom



SOIL MECHANICS

3770 MERRICK ROAD • SEAFORD, L. I.,
NEW YORK 11783 • (516) 221-2333

HEAD SPACE ORGANIC VAPOR ANALYSIS

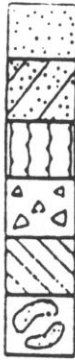
JOB # 89-019
 JOB LOCATION: PORT WASHINGTON, N.Y. (THYPIN STEEL)
 DATE OF BORINGS: 3-13-89
 DATE OF TESTING: 3-13-89
 INSTRUMENT: FOXBORO CENTURY OVA 128 GC
 HNU PHOTO-IONIZER P I - 101/1 L7

BORING # B-9

SAMPLE #	DEPTH (FT.)	DETECTION RANGE	DETECTED CONCENTRATION (PPM)
1	0 - 2'	0 - 10	N D
2	2 - 4'	0 - 10	N D
3	4 - 6'	0 - 10	N D
4	6 - 8'	0 - 10	N D
5	8 - 10'	0 - 10	N D

ND = NOT DETECTED
 *LABORATORY ANALYSIS

INSPECTOR Kurt Shoblom



SOIL MECHANICS

3770 MERRICK ROAD • SEAFORD, L. I.,
NEW YORK 11783 • (516) 221-2333

HEAD SPACE ORGANIC VAPOR ANALYSIS

JOB # 89-019
 JOB LOCATION: PORT WASHINGTON, N.Y. (THYPIN STEEL)
 DATE OF BORINGS: 3-13-89
 DATE OF TESTING: 3-13-89
 INSTRUMENT: FOXBORO CENTURY OVA 128 GC
 HNU PHOTO-IONIZER P I - 101/1 1.7

BORING # B-11

SAMPLE #	DEPTH (FT.)	DETECTION RANGE	DETECTED CONCENTRATION (PPM)
1	0 - 2'	0 - 10	N D
2	2 - 4'	0 - 10	N D
3	4 - 6'	0 - 10	N D
4	6 - 8'	0 - 10	N D
5	8 - 10'	0 - 10	N D

ND = NOT DETECTED
 *LABORATORY ANALYSIS

INSPECTOR Kurt Shoblom

SUBSOIL
INVESTIGATIONS



SOIL MECHANICS

3770 MERRICK ROAD • SEAFORD, L. I.,
NEW YORK 11783 • (516) 221-2333

HEAD SPACE ORGANIC VAPOR ANALYSIS

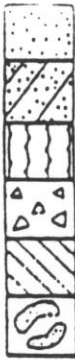
JOB # 89-019
JOB LOCATION: PORT WASHINGTON, N.Y. (THYPIN STEEL)
DATE OF BORINGS: 3-13-89
DATE OF TESTING: 3-13-89
INSTRUMENT: FOXBORO CENTURY OVA 128 GC
 HNU PHOTO-IONIZER P I - 101/1.7

BORING # B-13

SAMPLE #	DEPTH (FT.)	DETECTION RANGE	DETECTED CONCENTRATION (PPM)
1	0 - 2'	0 - 10	N D
2	2 - 4'	0 - 10	N D
3	4 - 6'	0 - 10	N D
4	6 - 8'	0 - 10	N D
5	8 - 10'	0 - 10	N D

ND = NOT DETECTED
*LABORATORY ANALYSIS

INSPECTOR Kurt Shoblom



SOIL MECHANICS

3770 MERRICK ROAD · SEAFORD, L. I.,
NEW YORK 11783 · (516) 221-2333

HEAD SPACE ORGANIC VAPOR ANALYSIS

JOB # 89-019
 JOB LOCATION: PORT WASHINGTON, N.Y. (THYPIN STEEL)
 DATE OF BORINGS: 3-13-89
 DATE OF TESTING: 3-13-89
 INSTRUMENT: FOXBORO CENTURY OVA 128 GC
 HNU PHOTO-IONIZER P 1 - 101/1 1.7

BORING # B-15

SAMPLE #	DEPTH (FT.)	DETECTION RANGE	DETECTED CONCENTRATION (PPM)
1	0 - 2'	0 - 10	N D
2	2 - 4'	0 - 10	N D
3	4 - 6'	0 - 10	N D
4	6 - 8'	0 - 10	N D
5	8 - 10'	0 - 10	N D

ND = NOT DETECTED
 *LABORATORY ANALYSIS

INSPECTOR Kurt Shoblom

SUBSOIL
INVESTIGATIONS



SOIL MECHANICS

3770 MERRICK ROAD • SEAFORD, L. I.,
NEW YORK 11783 • (516) 221-2333

HEAD SPACE ORGANIC VAPOR ANALYSIS

JOB # 89-019
JOB LOCATION: PORT WASHINGTON, N.Y. (THYPIN STEEL)
DATE OF BORINGS: 3-16-89
DATE OF TESTING: 3-16-89
INSTRUMENT: FOXBORO CENTURY OVA 128 GC
 HNU PHOTO-IONIZER P I - 101/11.7

BORING # B-16

SAMPLE #	DEPTH (FT.)	DETECTION RANGE	DETECTED CONCENTRATION (PPM)
1	0 - 2'	0 - 10	N D
2	2 - 4'	0 - 10	N D
3	4 - 6'	0 - 10	N D
4	6 - 8'	0 - 10	N D
5	8 - 10'	0 - 10	N D

ND = NOT DETECTED
*LABORATORY ANALYSIS

INSPECTOR Kurt Shoblom

SUBSOIL
INVESTIGATIONS



SOIL MECHANICS

3770 MERRICK ROAD · SEAFORD, L.I.,
NEW YORK 11783 · (516) 221-2333

HEAD SPACE ORGANIC VAPOR ANALYSIS

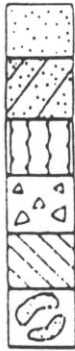
JOB # 89-019
JOB LOCATION: PORT WASHINGTON, N.Y. (THYPIN STEEL)
DATE OF BORINGS: 3-16-89
DATE OF TESTING: 3-16-89
INSTRUMENT: FOXBORO CENTURY OVA 128 GC
 HNU PHOTO-IONIZER P I - 101/1 I.7

BORING # B-17

SAMPLE #	DEPTH (FT.)	DETECTION RANGE	DETECTED CONCENTRATION (PPM)
1	0 - 2'	0 - 10	N D
2	2 - 4'	0 - 10	N D
3	4 - 6'	0 - 10	N D
4	6 - 8'	0 - 10	N D
5	8 - 10'	0 - 10	N D
6	10 - 12'	0 - 10	N D
7	15 - 17'	0 - 10	N D

ND = NOT DETECTED
*LABORATORY ANALYSIS

INSPECTOR Kurt Shoblom



SOIL MECHANICS

3770 MERRICK ROAD • SEAFORD, L. I.,
NEW YORK 11783 • (516) 221-2333

HEAD SPACE ORGANIC VAPOR ANALYSIS

JOB # 89-019
 JOB LOCATION: PORT WASHINGTON, N.Y. (THYPIN STEEL)
 DATE OF BORINGS: 3-16-89
 DATE OF TESTING: 3-16-89
 INSTRUMENT: FOXBORO CENTURY OVA 128 GC
 HNU PHOTO-IONIZER P 1 - 101/1.7

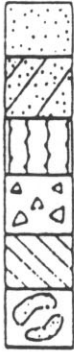
BORING # B-18

SAMPLE #	DEPTH (FT.)	DETECTION RANGE	DETECTED CONCENTRATION (PPM)
1	0 - 2'	0 - 10	N D
2	2 - 4'	0 - 10	N D
3	4 - 6'	0 - 10	N D
4	6 - 8'	0 - 10	N D
5	8 - 10'	0 - 10	N D
6	10 - 12'	0 - 10	N D
7	15 - 17'	0 - 10	N D

ND = NOT DETECTED
 *LABORATORY ANALYSIS

INSPECTOR Kurt Shoblom

SUBSOIL
INVESTIGATIONS



SOIL MECHANICS

3770 MERRICK ROAD • SEAFORD, L. I.,
NEW YORK 11783 • (516) 221-2333

HEAD SPACE ORGANIC VAPOR ANALYSIS

JOB # 89-019
JOB LOCATION: PORT WASHINGTON, N.Y. (THYPIN STEEL)
DATE OF BORINGS: 3-15-89
DATE OF TESTING: 3-15-89
INSTRUMENT: FOXBORO CENTURY OVA 128 GC
 HNU PHOTO-IONIZER P I - 101/1 I.7

BORING # B-19

SAMPLE #	DEPTH (FT.)	DETECTION RANGE	DETECTED CONCENTRATION (PPM)
1	0 - 2'	0 - 10	N D
2	2 - 4'	0 - 10	N D
3	4 - 6'	0 - 10	N D
4	6 - 8'	0 - 10	N D
5	8 - 10'	0 - 10	N D

ND = NOT DETECTED
*LABORATORY ANALYSIS

INSPECTOR Kurt Shoblom

SUBSOIL
INVESTIGATIONS



SOIL MECHANICS

3770 MERRICK ROAD • SEAFORD, L. I.,
NEW YORK 11783 • (516) 221-2333

HEAD SPACE ORGANIC VAPOR ANALYSIS

JOB # 89-019
JOB LOCATION: PORT WASHINGTON, N.Y. (THYPIN STEEL)
DATE OF BORINGS: 3-15-89
DATE OF TESTING: 3-15-89
INSTRUMENT: FOXBORO CENTURY OVA 128 GC
 HNU PHOTO-IONIZER P 1 - 101/1 I.7

BORING # B-20

SAMPLE #	DEPTH (FT.)	DETECTION RANGE	DETECTED CONCENTRATION (PPM)
1	0 - 2'	0 - 10	N D
2	2 - 4'	0 - 10	N D
3	4 - 6'	0 - 10	N D
4	6 - 8'	0 - 10	N D
5	8 - 10'	0 - 10	N D

ND = NOT DETECTED
*LABORATORY ANALYSIS

INSPECTOR Kurt Shoblom

SUBSOIL
INVESTIGATIONS



SOIL MECHANICS

3770 MERRICK ROAD • SEAFORD, L. I.,
NEW YORK 11783 • (516) 221-2333

HEAD SPACE ORGANIC VAPOR ANALYSIS

JOB # 89-019
 JOB LOCATION: PORT WASHINGTON, N.Y. (THYPIN STEEL)
 DATE OF BORINGS: 3-16-89
 DATE OF TESTING: 3-16-89
 INSTRUMENT: FOXBORO CENTURY OVA 128 GC
 HNU PHOTO-IONIZER P I - 101/1 I.7

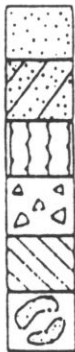
BORING # B-21

SAMPLE #	DEPTH (FT.)	DETECTION RANGE	DETECTED CONCENTRATION (PPM)
1	0 - 2'	0 - 10	N D
2	2 - 4'	0 - 10	N D
3	4 - 6'	0 - 10	N D
4	6 - 8'	0 - 10	N D
5	8 - 10'	0 - 10	N D
6	10 - 12'	0 - 10	N D
7	15 - 17'	0 - 10	N D
8	17 - 19'	0 - 10	N D

ND = NOT DETECTED
 *LABORATORY ANALYSIS

INSPECTOR Kurt Shoblom

SUBSOIL
INVESTIGATIONS



SOIL MECHANICS

3770 MERRICK ROAD • SEAFORD, L. I.,
NEW YORK 11783 • (516) 221-2333

HEAD SPACE ORGANIC VAPOR ANALYSIS

JOB # 89-019
JOB LOCATION: PORT WASHINGTON, N.Y. (THYPIN STEEL)
DATE OF BORINGS: 3-15-89
DATE OF TESTING: 3-15-89
INSTRUMENT: FOXBORO CENTURY OVA 128 GC
 HNU PHOTO-IONIZER P 1 - 101/1 1.7

BORING # B-22

SAMPLE #	DEPTH (FT.)	DETECTION RANGE	DETECTED CONCENTRATION (PPM)
1	0 - 2'	0 - 10	N D
2	2 - 4'	0 - 10	N D
3	4 - 6'	0 - 10	N D
4	6 - 8'	0 - 10	N D
5	8 - 10'	0 - 10	N D

ND = NOT DETECTED
*LABORATORY ANALYSIS

INSPECTOR Kurt Shoblom

377 SHEFFIELD AVE. • N. BABYLON, N.Y. 11703 • (516) 422-5777

LAB NO. C891061/1

04/28/89

Soil Mechanics
3770 Merrick Rd.
Seaford, NY 11783

ATTN: Mr. Robert Cardinale

PO #0797

SOURCE OF SAMPLE: Port Washington, Project #89-019

COLLECTED BY: Client DATE COL'D: 04/11/89 RECEIVED: 04/12/89

SAMPLE: Water sample, MW #1

ANALYTICAL PARAMETERS

Chloromethane	ug/L	<1
Bromomethane	ug/L	<1
Dichlorodifluomethane	ug/L	<1
Vinyl Chloride	ug/L	<1
Chloroethane	ug/L	<1
Methylene Chloride	ug/L	<2
Trichlorofluomethane	ug/L	<2
11 Dichloroethene	ug/L	<2
11 Dichloroethane	ug/L	<2
12 Dichloroethene	ug/L	<2
Chloroform	ug/L	<1
12 Dichloroethane	ug/L	<2
111 Trichloroethane	ug/L	<1
Carbon Tetrachloride	ug/L	<1
Bromodichloromethane	ug/L	<1
12 Dichloropropane	ug/L	<2
t 13 Dichloropropene	ug/L	<2
Trichloroethylene	ug/L	<1
Chlorodibromomethane	ug/L	<1
112 Trichloroethane	ug/L	<2
c 13 Dichloropropene	ug/L	<2
2chloroethvinylether	ug/L	<2
Bromoform	ug/L	<2
1122Tetrachloroethan	ug/L	<2
Tetrachloroethene	ug/L	<1

ANALYTICAL PARAMETERS

Chlorobenzene	ug/L	<1
13 Dichlorobenzene	ug/L	<2
12 Dichlorobenzene	ug/L	<2
14 Dichlorobenzene	ug/L	<2
Benzene	ug/L	<1
Toluene	ug/L	<2
Ethyl Benzene	ug/L	<1
m Xylene	ug/L	<2
o+p Xylene	ug/L	<4
Acetone	ug/L	<20
Methyl Ethyl Ketone	ug/L	<20
methylisobutylketone	ug/L	<20

cc:

REMARKS: Page 1 of 2.

DIRECTOR



377 SHEFFIELD AVE. • N. BABYLON, N.Y. 11703 • (516) 422-5777

LAB NO. C891061/1

04/28/89

Soil Mechanics
3770 Merrick Rd.
Seaford, NY 11783

ATTN: Mr. Robert Cardinale

PO #0797

SOURCE OF SAMPLE: Port Washington, Project #89-019

COLLECTED BY: Client DATE COL'D: 04/11/89 RECEIVED: 04/12/89

SAMPLE: Water sample, MW #1

ANALYTICAL PARAMETERS

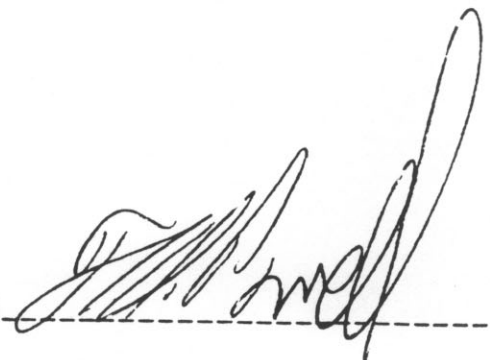
Antimony as Sb	mg/L	<0.005
Arsenic as As	mg/L	0.003
Beryllium as Be	mg/L	<0.001
Cadmium as Cd	mg/L	<0.001
Chromium as Cr	mg/L	<0.005
Copper as Cu	mg/L	<0.02
Lead as Pb	mg/L	0.006
Mercury as Hg	mg/L	<0.00025
Nickel as Ni	mg/L	<0.10
Selenium as Se	mg/L	<0.002
Silver as Ag	mg/L	<0.001
Thallium as Tl	mg/L	<0.005
Zinc as Zn	mg/L	<0.02
Petrol. Hydrocarbons	mg/L	<0.4

ANALYTICAL PARAMETERS

cc:

REMARKS: Page 2 of 2.

DIRECTOR



377 SHEFFIELD AVE. • N. BABYLON, N.Y. 11703 • (516) 422-5777

LAB NO. C890969/1

04/19/89

Soil Mechanics
3770 Merrick Rd.
Seaford, NY 11783

ATTN: Mr. Robert Cardinale

PO #0794

SOURCE OF SAMPLE: Port Washington, Project #89-019

COLLECTED BY: Client DATE COL'D: 04/04/89 RECEIVED: 04/04/89

SAMPLE: Water sample, MW#6

ANALYTICAL PARAMETERS

Chloromethane	ug/L	<1
Bromomethane	ug/L	<1
Dichlorodifluomethane	ug/L	<1
Vinyl Chloride	ug/L	<1
Chloroethane	ug/L	<1
Methylene Chloride	ug/L	<2
Trichlorofluomethane	ug/L	<2
11 Dichloroethene	ug/L	<2
11 Dichloroethane	ug/L	<2
12 Dichloroethene	ug/L	<2
Chloroform	ug/L	6
12 Dichloroethane	ug/L	<2
111 Trichloroethane	ug/L	<1
Carbon Tetrachloride	ug/L	3
Bromodichloromethane	ug/L	<1
12 Dichloropropane	ug/L	<2
t 13 Dichloropropene	ug/L	<2
Trichloroethylene	ug/L	24
Chlorodibromomethane	ug/L	<1
112 Trichloroethane	ug/L	<2
c 13 Dichloropropene	ug/L	<2
2chloroethvinylether	ug/L	<2
Bromoform	ug/L	<2
1122Tetrachloroethan	ug/L	<2
Tetrachloroethene	ug/L	150

ANALYTICAL PARAMETERS

Chlorobenzene	ug/L	<1
13 Dichlorobenzene	ug/L	<2
12 Dichlorobenzene	ug/L	<2
14 Dichlorobenzene	ug/L	<2
Benzene	ug/L	<1
Toluene	ug/L	<2
Ethyl Benzene	ug/L	<1
m Xylene	ug/L	<2
o+p Xylene	ug/L	<4
Acetone	ug/L	<20
Methyl Ethyl Ketone	ug/L	<20
methylisobutylketone	ug/L	<20

cc:

REMARKS: Page 1 of 2.

DIRECTOR 

377 SHEFFIELD AVE. • N. BABYLON, N.Y. 11703 • (516) 422-5777

LAB NO. C890969/1

04/19/89

Soil Mechanics
3770 Merrick Rd.
Seaford, NY 11783

ATTN: Mr. Robert Cardinale

PO #0794

SOURCE OF SAMPLE: Port Washington, Project #89-019
COLLECTED BY: Client DATE COL'D: 04/04/89 RECEIVED: 04/04/89

SAMPLE: Water sample, MW#6

ANALYTICAL PARAMETERS

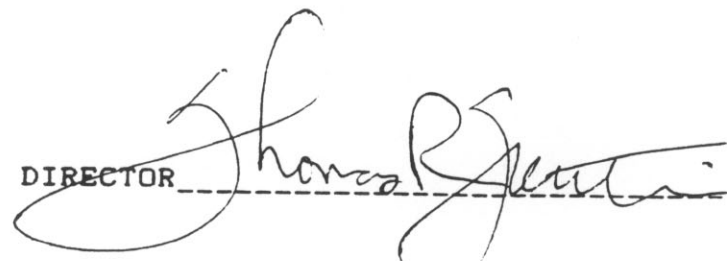
Antimony as Sb	mg/L	<0.005
Arsenic as As	mg/L	<0.002
Beryllium as Be	mg/L	<0.001
Cadmium as Cd	mg/L	<0.001
Chromium as Cr	mg/L	<0.005
Copper as Cu	mg/L	<0.02
Lead as Pb	mg/L	<0.005
Mercury as Hg	mg/L	<0.00025
Nickel as Ni	mg/L	<0.10
Selenium as Se	mg/L	<0.002
Silver as Ag	mg/L	<0.001
Thallium as Tl	mg/L	<0.005
Zinc as Zn	mg/L	0.05
Petrol. Hydrocarbons	mg/L	<0.4

ANALYTICAL PARAMETERS

cc:

REMARKS: Page 2 of 2.

DIRECTOR



377 SHEFFIELD AVE. • N. BABYLON, N.Y. 11703 • (516) 422-5777

LAB NO. C890969/2

04/19/89

Soil Mechanics
3770 Merrick Rd.
Seaford, NY 11783

ATTN: Mr. Robert Cardinale

PO #0794

SOURCE OF SAMPLE: Port Washington, Project #89-019

COLLECTED BY: Client DATE COL'D: 04/04/89 RECEIVED: 04/04/89

SAMPLE: Water sample, MW#10

ANALYTICAL PARAMETERS

Chloromethane	ug/L	<1
Bromomethane	ug/L	<1
Dichlorodifluomethane	ug/L	<1
Vinyl Chloride	ug/L	<1
Chloroethane	ug/L	<1
Methylene Chloride	ug/L	<2
Trichlorofluomethane	ug/L	<2
11 Dichloroethene	ug/L	<2
11 Dichloroethane	ug/L	<2
12 Dichloroethene	ug/L	<2
Chloroform	ug/L	<1
12 Dichloroethane	ug/L	<2
111 Trichloroethane	ug/L	2
Carbon Tetrachloride	ug/L	<1
Bromodichloromethane	ug/L	<1
12 Dichloropropane	ug/L	<2
t 13 Dichloropropene	ug/L	<2
Trichloroethylene	ug/L	11
Chlorodibromomethane	ug/L	<1
112 Trichloroethane	ug/L	<2
c 13 Dichloropropene	ug/L	<2
2chloroethvinylether	ug/L	<2
Bromoform	ug/L	<2
1122Tetrachloroethan	ug/L	<2
Tetrachloroethene	ug/L	<1

ANALYTICAL PARAMETERS

Chlorobenzene	ug/L	<1
13 Dichlorobenzene	ug/L	<2
12 Dichlorobenzene	ug/L	<2
14 Dichlorobenzene	ug/L	<2
Benzene	ug/L	<1
Toluene	ug/L	<2
Ethyl Benzene	ug/L	<1
m Xylene	ug/L	<2
o+p Xylene	ug/L	<4
Acetone	ug/L	<20
Methyl Ethyl Ketone	ug/L	<20
methylisobutylketone	ug/L	<20

cc:

REMARKS: Page 1 of 2.

DIRECTOR

377 SHEFFIELD AVE. • N. BABYLON, N.Y. 11703 • (516) 422-5777

LAB NO. C890969/2

04/19/89

Soil Mechanics
3770 Merrick Rd.
Seaford, NY 11783

ATTN: Mr. Robert Cardinale

PO #0794

SOURCE OF SAMPLE: Port Washington, Project #89-019
COLLECTED BY: Client DATE COL'D: 04/04/89 RECEIVED: 04/04/89

SAMPLE: Water sample, MW#10

ANALYTICAL PARAMETERS

Antimony as Sb	mg/L	<0.005
Arsenic as As	mg/L	<0.002
Beryllium as Be	mg/L	<0.001
Cadmium as Cd	mg/L	<0.001
Chromium as Cr	mg/L	0.017
Copper as Cu	mg/L	<0.02
Lead as Pb	mg/L	<0.005
Mercury as Hg	mg/L	<0.00025
Nickel as Ni	mg/L	<0.10
Selenium as Se	mg/L	<0.002
Silver as Ag	mg/L	<0.001
Thallium as Tl	mg/L	<0.005
Zinc as Zn	mg/L	0.02
Petrol. Hydrocarbons	mg/L	<0.4

ANALYTICAL PARAMETERS

cc:

REMARKS: Page 2 of 2.

DIRECTOR



377 SHEFFIELD AVE. • N. BABYLON, N.Y. 11703 • (516) 422-5777

LAB NO. C890969/3

04/19/89

Soil Mechanics
3770 Merrick Rd.
Seaford, NY 11783

ATTN: Mr. Robert Cardinale

PO #0794

SOURCE OF SAMPLE: Port Washington, Project #89-019

COLLECTED BY: Client DATE COL'D: 04/04/89 RECEIVED: 04/04/89

SAMPLE: Water sample, MW#14

ANALYTICAL PARAMETERS

Chloromethane	ug/L	<1
Bromomethane	ug/L	<1
Dichlorodifluomethane	ug/L	<1
Vinyl Chloride	ug/L	<1
Chloroethane	ug/L	<1
Methylene Chloride	ug/L	<2
Trichlorofluomethane	ug/L	<2
11 Dichloroethene	ug/L	<2
11 Dichloroethane	ug/L	<2
12 Dichloroethene	ug/L	<2
Chloroform	ug/L	<1
12 Dichloroethane	ug/L	<2
111 Trichloroethane	ug/L	<1
Carbon Tetrachloride	ug/L	<1
Bromodichloromethane	ug/L	<1
12 Dichloropropane	ug/L	<2
t 13 Dichloropropene	ug/L	<2
Trichloroethylene	ug/L	10
Chlorodibromomethane	ug/L	<1
112 Trichloroethane	ug/L	<2
c 13 Dichloropropene	ug/L	<2
2chloroethvinylether	ug/L	<2
Bromoform	ug/L	<2
1122Tetrachloroethan	ug/L	<2
Tetrachloroethene	ug/L	3

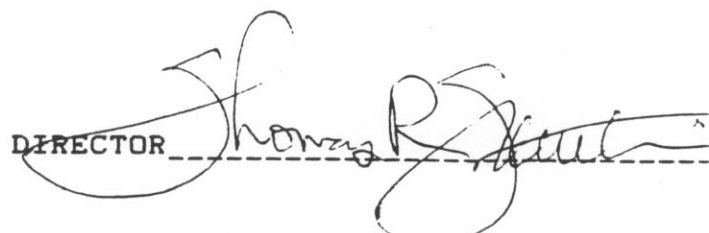
ANALYTICAL PARAMETERS

Chlorobenzene	ug/L	<1
13 Dichlorobenzene	ug/L	2
12 Dichlorobenzene	3g/L	3
14 Dichlorobenzene	ug/L	4
Benzene	ug/L	<1
Toluene	ug/L	<2
Ethyl Benzene	ug/L	<1
m Xylene	ug/L	<2
o+p Xylene	ug/L	<4
Acetone	ug/L	<20
Methyl Ethyl Ketone	ug/L	<20
methylisobutylketone	ug/L	<20

cc:

REMARKS: Page 1 of 2.

DIRECTOR



377 SHEFFIELD AVE. • N. BABYLON, N.Y. 11703 • (516) 422-5777

LAB NO. C890969/3

04/19/89

Soil Mechanics
3770 Merrick Rd.
Seaford, NY 11783

ATTN: Mr. Robert Cardinale

PO #0794

SOURCE OF SAMPLE: Port Washington, Project #89-019
COLLECTED BY: Client DATE COL'D: 04/04/89 RECEIVED: 04/04/89

SAMPLE: Water sample, MW#14

ANALYTICAL PARAMETERS

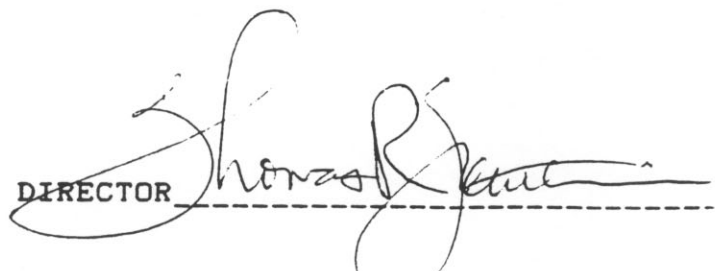
Antimony as Sb	mg/L	<0.005
Arsenic as As	mg/L	<0.002
Beryllium as Be	mg/L	<0.001
Cadmium as Cd	mg/L	<0.001
Chromium as Cr	mg/L	<0.005
Copper as Cu	mg/L	<0.02
Lead as Pb	mg/L	<0.005
Mercury as Hg	mg/L	<0.00025
Nickel as Ni	mg/L	<0.10
Selenium as Se	mg/L	<0.002
Silver as Ag	mg/L	<0.001
Thallium as Tl	mg/L	<0.005
Zinc as Zn	mg/L	0.07
Petrol. Hydrocarbons	mg/L	<0.4

ANALYTICAL PARAMETERS

cc:

REMARKS: Page 2 of 2.

DIRECTOR



377 SHEFFIELD AVE. • N. BABYLON, N.Y. 11703 • (516) 422-5777

LAB NO. C891061/2

04/28/89

Soil Mechanics
3770 Merrick Rd.
Seaford, NY 11783

ATTN: Mr. Robert Cardinale

PO #0797

SOURCE OF SAMPLE: Port Washington, Project #89-019

COLLECTED BY: Client DATE COL'D: 04/11/89 RECEIVED: 04/12/89

SAMPLE: Water sample, MW #17

ANALYTICAL PARAMETERS

Chloromethane	ug/L	<1
Bromomethane	ug/L	<1
Dichlorodifluomethane	ug/L	<1
Vinyl Chloride	ug/L	<1
Chloroethane	ug/L	<1
Methylene Chloride	ug/L	<2
Trichlorofluomethane	ug/L	<2
11 Dichloroethene	ug/L	<2
11 Dichloroethane	ug/L	<2
12 Dichloroethene	ug/L	<2
Chloroform	ug/L	<1
12 Dichloroethane	ug/L	<2
111 Trichloroethane	ug/L	2
Carbon Tetrachloride	ug/L	<1
Bromodichloromethane	ug/L	<1
12 Dichloropropane	ug/L	<2
t 13 Dichloropropene	ug/L	<2
Trichloroethylene	ug/L	<1
Chlorodibromomethane	ug/L	<1
112 Trichloroethane	ug/L	<2
c 13 Dichloropropene	ug/L	<2
2chloroethvinylether	ug/L	<2
Bromoform	ug/L	<2
1122Tetrachloroethan	ug/L	<2
Tetrachloroethene	ug/L	3

ANALYTICAL PARAMETERS

Chlorobenzene	ug/L	<1
13 Dichlorobenzene	ug/L	<2
12 Dichlorobenzene	ug/L	<2
14 Dichlorobenzene	ug/L	<2
Benzene	ug/L	<1
Toluene	ug/L	<2
Ethyl Benzene	ug/L	<1
m Xylene	ug/L	<2
o+p Xylene	ug/L	<4
Acetone	ug/L	<20
Methyl Ethyl Ketone	ug/L	<20
methylisobutylketone	ug/L	<20

cc:

REMARKS: Page 1 of 2.

DIRECTOR 

377 SHEFFIELD AVE. • N. BABYLON, N.Y. 11703 • (516) 422-5777

LAB NO. C891061/2

04/28/89

Soil Mechanics
3770 Merrick Rd.
Seaford, NY 11783

ATTN: Mr. Robert Cardinale

PO #0797

SOURCE OF SAMPLE: Port Washington, Project #89-019
COLLECTED BY: Client DATE COL'D: 04/11/89 RECEIVED: 04/12/89

SAMPLE: Water sample, MW #17

ANALYTICAL PARAMETERS

Antimony as Sb	mg/L	<0.005
Arsenic as As	mg/L	<0.002
Beryllium as Be	mg/L	<0.001
Cadmium as Cd	mg/L	<0.001
Chromium as Cr	mg/L	<0.005
Copper as Cu	mg/L	<0.02
Lead as Pb	mg/L	<0.005
Mercury as Hg	mg/L	<0.00025
Nickel as Ni	mg/L	<0.10
Selenium as Se	mg/L	<0.002
Silver as Ag	mg/L	<0.001
Thallium as Tl	mg/L	<0.005
Zinc as Zn	mg/L	0.05
Petrol. Hydrocarbons	mg/L	<0.4

ANALYTICAL PARAMETERS

cc:

REMARKS: Page 2 of 2.

DIRECTOR



377 SHEFFIELD AVE. • N. BABYLON, N.Y. 11703 • (516) 422-5777

LAB NO. C891061/3

04/28/89

Soil Mechanics
3770 Merrick Rd.
Seaford, NY 11783

ATTN: Mr. Robert Cardinale

PO #0797

SOURCE OF SAMPLE: Port Washington, Project #89-019
COLLECTED BY: Client DATE COL'D: 04/11/89 RECEIVED: 04/12/89

SAMPLE: Water sample, MW #20

ANALYTICAL PARAMETERS

Chloromethane	ug/L	<1
Bromomethane	ug/L	<1
Dichlorodifluomethane	ug/L	<1
Vinyl Chloride	ug/L	<1
Chloroethane	ug/L	<1
Methylene Chloride	ug/L	<2
Trichlorofluomethane	ug/L	<2
11 Dichloroethene	ug/L	<2
11 Dichloroethane	ug/L	<2
12 Dichloroethene	ug/L	<2
Chloroform	ug/L	<1
12 Dichloroethane	ug/L	<2
111 Trichloroethane	ug/L	3
Carbon Tetrachloride	ug/L	<1
Bromodichloromethane	ug/L	<1
12 Dichloropropane	ug/L	<2
t 13 Dichloropropene	ug/L	<2
Trichloroethylene	ug/L	2
Chlorodibromomethane	ug/L	<1
112 Trichloroethane	ug/L	<2
c 13 Dichloropropene	ug/L	<2
2chloroethvinylether	ug/L	<2
Bromoform	ug/L	<2
1122Tetrachloroethan	ug/L	<2
Tetrachloroethene	ug/L	7

ANALYTICAL PARAMETERS

Chlorobenzene	ug/L	<1
13 Dichlorobenzene	ug/L	<2
12 Dichlorobenzene	ug/L	<2
14 Dichlorobenzene	ug/L	<2
Benzene	ug/L	<1
Toluene	ug/L	<2
Ethyl Benzene	ug/L	<1
m Xylene	ug/L	<2
o+p Xylene	ug/L	<4
Acetone	ug/L	<20
Methyl Ethyl Ketone	ug/L	<20
methylisobutylketone	ug/L	<20

cc:

REMARKS: Page 1 of 2.

DIRECTOR _____



377 SHEFFIELD AVE. • N. BABYLON, N.Y. 11703 • (516) 422-5777

LAB NO. C891061/3

04/28/89

Soil Mechanics
3770 Merrick Rd.
Seaford, NY 11783
ATTN: Mr. Robert Cardinale

PO #0797

SOURCE OF SAMPLE: Port Washington, Project #89-019
COLLECTED BY: Client DATE COL'D: 04/11/89 RECEIVED: 04/12/89

SAMPLE: Water sample, MW #20

ANALYTICAL PARAMETERS

ANALYTICAL PARAMETERS

Antimony as Sb	mg/L	<0.005
Arsenic as As	mg/L	<0.002
Beryllium as Be	mg/L	<0.001
Cadmium as Cd	mg/L	<0.001
Chromium as Cr	mg/L	<0.005
Copper as Cu	mg/L	<0.02
Lead as Pb	mg/L	0.015
Mercury as Hg	mg/L	<0.00025
Nickel as Ni	mg/L	<0.10
Selenium as Se	mg/L	<0.002
Silver as Ag	mg/L	<0.001
Thallium as Tl	mg/L	<0.005
Zinc as Zn	mg/L	0.06
Petrol. Hydrocarbons	mg/L	<0.4

cc:

REMARKS: Page 2 of 2.

DIRECTOR

