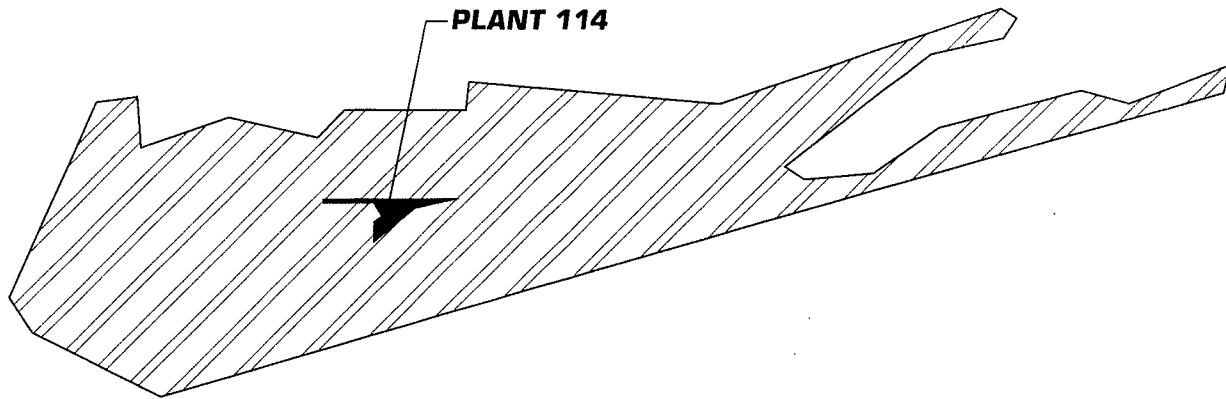


GRUMMAN



AEROSPACE
CORPORATION
BETHPAGE FACILITY



**PHASE II SITE ASSESSMENT
PLANT 114**

GRUMMAN AEROSPACE CORPORATION
HICKSVILLE, NEW YORK



Dvirka and Bartilucci
Consulting Engineers

JULY 1996



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July 31, 1996

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Re: Phase II Site Assessment
Plant 114
Hicksville, NY
D&B No. 1167-JJ

Dear Mr. Ohlmann:

Enclosed for your review, please find six copies of the document entitled:

*“Phase II Site Assessment
Plant 114
Hicksville, New York”*

If you have any questions and/or comments, please do not hesitate to contact Mr. Errol Kitt or me at (516) 364-9890.

Very truly yours,

Richard M. Walka
Vice President

RMW/SC/cmc

cc w/o encl.: A. Postyn (GAC)
E. Kitt (D&B)
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◆1167/RMW96-184.ltr

A DIVISION OF WILLIAM F. COSULICH ASSOCIATES, P.C.

JOHLMANN

JUL 31 1996

PHASE II SITE ASSESSMENT

GRUMMAN AEROSPACE CORPORATION

**PLANT 114
HICKSVILLE, NEW YORK**

PREPARED BY

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

JULY 1996

◆1167/S0418601.DOC(R01)

**PHASE II SITE ASSESSMENT
GRUMMAN AEROSPACE CORPORATION
PLANT 114
HICKSVILLE, NEW YORK**

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Section 1



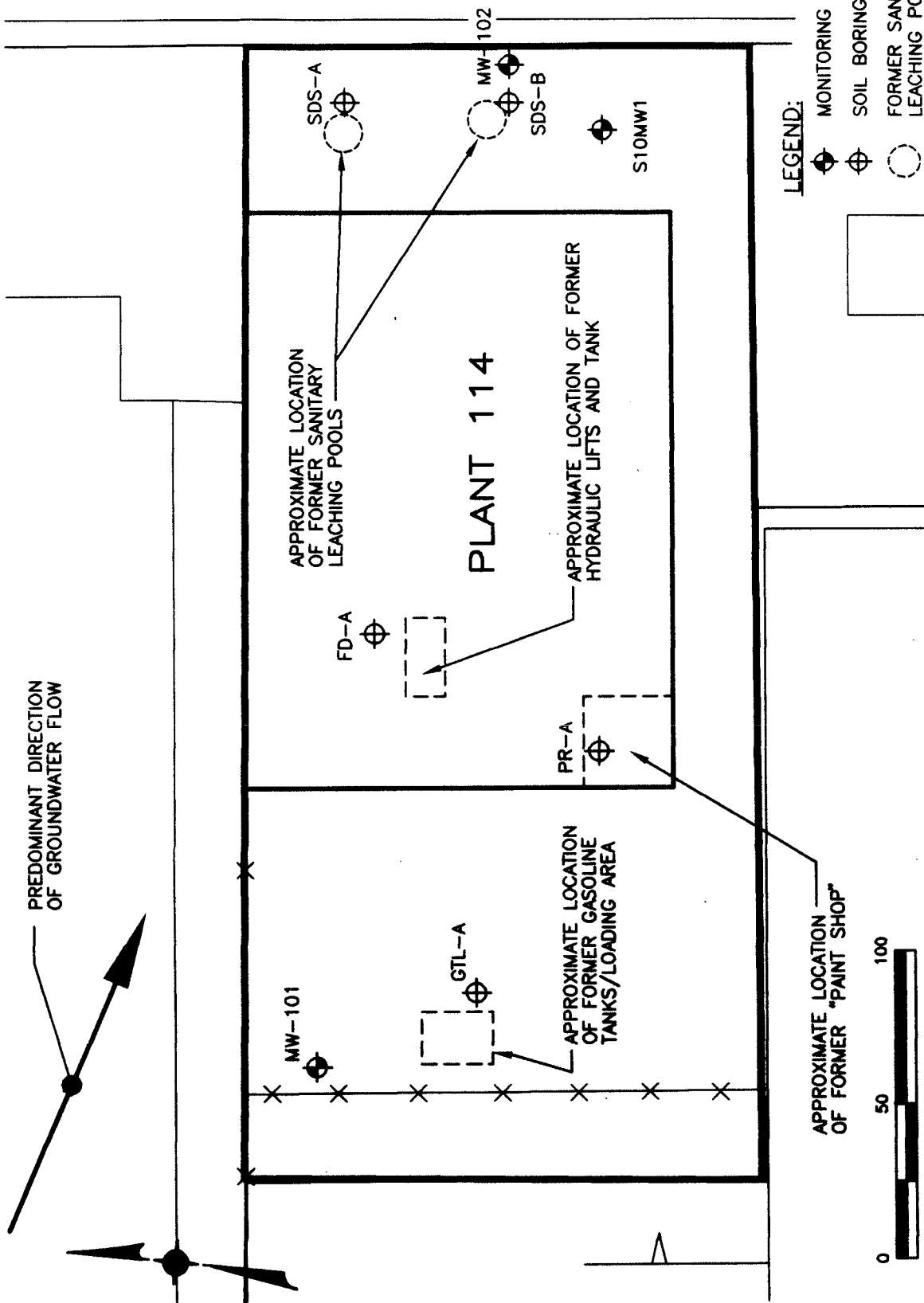
1.0 INTRODUCTION

This report presents the findings of a Phase II Site Assessment undertaken at the Grumman Aerospace Corporation (GAC) property known as "Plant 114" (formerly "Plant 29A"). The site is located at 920 South Oyster Bay Road, Hicksville, Town of Oyster Bay, Nassau County, New York. A site location map is presented on Figure 1-1. The site and surrounding areas are currently zoned Industrial H with the nearest residential area approximately 2,000 feet west of Plant 114.

The Plant 114 property comprises approximately 59,500 square feet (current Tax I.D. Number: Section 46, Block N, Lot 57) and is currently owned by GAC. The property was formerly leased to Lonestar Technologies, but is currently vacant. A site plan is presented on Figure 1-2.

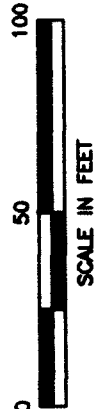
The objective of the Phase II Site Assessment is to document the investigatory activities undertaken in accordance with recommendations of the Phase I Site Assessment, present the results obtained from the laboratory analysis of environmental samples, and provide an interpretation of analytical results with respect to appropriate environmental standards, guidance values and cleanup objectives. Section 2 of this document presents an overview of the findings, conclusions and recommendations of the Phase I Site Assessment. The procedures followed throughout the course of the Phase II Site Assessment field program are described in Section 3. The findings of the Phase II Site Assessment field program are presented in Section 4. The conclusions and recommendations of the Phase II Site Assessment are presented in Section 5.

SOUTH OYSTER BAY ROAD



LEGEND:

- ⊕ MONITORING WELL
- ⊕ SOIL BORING
- FORMER SANITARY LEACHING POOL



APPROXIMATE LOCATION OF FORMER SANITARY LEACHING POOLS

PLANT 114

APPROXIMATE LOCATION OF FORMER HYDRAULIC LIFTS AND TANK

APPROXIMATE LOCATION OF FORMER GASOLINE TANKS/LOADING AREA

APPROXIMATE LOCATION OF FORMER "PAINT SHOP"

GRUMMAN AEROSPACE CORPORATION
BETHPAGE FACILITY
PLANT 114 -- PHASE II SITE ASSESSMENT

SITE PLAN

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

DR: 1167 FILE: 1167-8AR05-07/30/96

Section 2



2.0 PHASE I SITE ASSESSMENT OVERVIEW

This section presents an overview of the identified areas of potential environmental concern on-site along with the recommendations of the Phase I Site Assessment. These areas include the following:

Interior

- Former Hydraulic Lift Area
- Transformers
- Former Paint Shop

Exterior

- Former Gasoline Tanks/Loading Area
- Former On-Site Sanitary Disposal Systems
- Groundwater Quality

2.1 Former Hydraulic Lift Area

Findings

Based upon a review of various construction plans dated from 1960 through 1976, and the site inspection performed on February 13, 1996, a portion of the Plant 114 warehouse was previously utilized as a “Motor Vehicle Shop” and contained a hydraulic lift. Adjacent to the motor vehicle shop was a car wash area. Close inspection of the area that apparently previously contained the hydraulic lift and floor drains was not possible during a site inspection performed on February 13, 1996, due to the presence of numerous storage racks. A capped, ground-level pipe was observed, partially under one of the storage racks, adjacent to markings in the floor which appeared to be indicative of the former lift area. This pipe appeared to be associated with the piping system for the associated hydraulic oil reservoir.

Recommendations

Due to the potential for prior releases of automotive fluids from the former location of the hydraulic lift area (and adjacent car wash area), it was recommended that one soil boring be installed in this vicinity to the depth of groundwater with split spoon sampling at 5-foot intervals.

It was recommended that, based upon field instrumentation and visual observations, select soil samples be analyzed for volatile organic compounds (VOCs) using USEPA Method 8240, semivolatile organic compounds (SVOCs) by USEPA Method 8270, total petroleum hydrocarbons (TPHCs) utilizing USEPA Method 418.1, fuel-related constituents using NYSDOH Method 310-13 and priority pollutant metals utilizing USEPA Method 6010. It was also recommended that the storage racks in this area of the building be removed and a detailed visual inspection of this area be conducted. The Phase I report noted that if evidence of potential areas of environmental concern did not appear to be localized, additional borings may be warranted.

2.2 Transformers

Findings

Pole-mounted transformers were noted along the southern boundary of the site during the February 1996 site inspection. Based upon interviews with representatives of GAC, these transformers are owned by LILCO (Plant 114 is LILCO Account No. 475-40-2690-25). Based upon interviews with representatives of GAC and LILCO, it could not be readily determined if these transformers utilize PCB-containing oil. No visible staining was noted in this area that would appear to be indicative of a prior release. Therefore, the Phase I report stated that further investigatory activities in this area did not appear to be warranted and no recommendations with respect to the transformers were made.

2.3 Former Paint Shop

Findings

Based upon a review of construction drawings, the southwestern corner of the building was previously utilized as a Paint Shop. The Phase I Site Assessment noted that the potential for

prior releases of paints and solvents in the Paint Shop area made it a potential area of environmental concern.

Recommendations

Due to the potential for prior releases of paints and solvents from the former location of the Paint Shop, it was recommended that one soil boring be installed in this area to the depth of groundwater with split spoon sampling at 5-foot intervals. It was recommended that, based upon field instrumentation and visual observations, select soil samples be analyzed for VOCs (Method 8240), SVOCs (Method 8270) and priority pollutant metals (Method 6010).

2.4 Former Gasoline Tanks/Loading Area

Findings

Town of Oyster Bay files contained a plot plan and a building permit (dated February 9, 1972) referring to the construction of two 5,000-gallon gasoline tanks proposed to be located to the west of the Plant 114 building. However, according to initial information provided by the Nassau County Fire Marshal's office, the Nassau County Department of Health, and GAC, there were no records of underground or aboveground storage tanks at Plant 114. Based on observations made during the February 13, 1996 site inspection, there were no apparent signs of such tanks, although a circuit breaker box in the warehouse area indicated a circuit for a "gas pump." Therefore, the Phase I report concluded that it appeared that the tanks were constructed and a loading area was present at the site for some time.

Subsequent to the completion of the Phase I report, a search of files at the Nassau County Fire Marshal's (NCFM) office was undertaken and the following information on the tanks was obtained. Based on a review of available records, it appears that there were two 5,000-gallon underground storage tanks storing unleaded gasoline located at 920 South Oyster Bay Road when the building was occupied by New York Telephone. Although one bulk storage inspection

report indicates that the tanks were installed between 1971 and 1972, the remaining documents show an installation date of 1975. A January 1978 NCFM violation notice was issued because the tanks had not been hydrostatically tested as required by Article III of the Nassau County Fire Prevention Ordinance, a defective gasket was noted on the fill pipe cap, and there was a defective dispensing hose. Records show tank tests were performed in October 1978 and that the tanks passed. Subsequent violations in 1980 and 1982 pertained to failing to register the tanks and the need to replace the hose retractors and service the fire extinguisher. Appendix A includes information related to the tanks.

According to a July 1989 letter from the NCFM to New York Telephone, tightness tests for the storage tanks were overdue, as the last scheduled date had been October 1981. An August 1989 letter from the NCFM to New York Telephone indicated the tanks were required to be replaced, removed or permanently abandoned by February 23, 1990. A letter from Fenley and Nichol to the NCFM office, dated March 1990, indicated that the tanks had been removed in May 1987. Appendix A includes information related to the tanks.

Recommendations

Due to the potential for prior releases from the former location of the two 5,000-gallon gasoline storage tanks and the associated loading area, it was recommended that one soil boring be installed in this area to the depth of groundwater with split spoon sampling at 5-foot intervals. It was recommended that, based upon field instrumentation and visual observations, select soil samples be analyzed for compounds identified in Table 1 of Appendix B in NYSDEC's Spill Technology and Remediation Series (STARS) Memo #1, Petroleum-Contaminated Soil Guidance Policy.

2.5 Former On-Site Sanitary Disposal Systems

Findings

Due to the nature of prior on-site operations associated with the automotive repair garage and paint shop, the potential existed for automotive fluids, paints and solvents to be discharged through the facility's floor drains to the on-site sanitary disposal system utilized by Plant 114 prior to connection to the Nassau County sewer system.

Recommendations

Due to the potential for prior discharges of automotive fluids, paints and solvents to the two on-site sanitary leaching pools, it was recommended that one boring be installed at the location of each of the former sanitary leaching pools to the depth of the groundwater interface with split spoon sampling at 5-foot intervals. It was recommended that, based upon field instrumentation and visual observations, select soil samples from each boring be collected and analyzed for VOCs (Method 8240), SVOCs (Method 8270), TPHCs (Method 418.1), fuel-related constituents (Method 310-13) and priority pollutant metals (Method 6010).

2.6 Groundwater Quality

Findings

The Ruco Polymer facility, located approximately 450 feet west of the Plant 114 site, is a National Priorities List (NPL) site with a documented plume of contaminated groundwater containing volatile and semivolatile organic compounds. Based upon a review of water table elevation maps prepared by others, dated April and August 1993 (see Appendix A), the predominant direction of groundwater flow in the vicinity of the Ruco Polymer facility and the Plant 114 site is to the southeast. However, recharge basins and the effects of groundwater withdrawal by nearby production wells cause seasonal fluctuations in flow direction in this area.

Based upon a review of the existing water table elevation maps, it appears that, on a seasonal basis, the Plant 114 site may be located downgradient of portions of the Ruco Polymer facility. Groundwater monitoring well S10MW-1 is located on-site and downgradient of the Plant 114 building, as well as the Ruco Polymer facility. The volatile organic compound 2-butanone (MEK) was previously detected in monitoring well S10MW-1 at a concentration above the NYSDOH drinking water standard. 2-Butanone (MEK) is identified as a contaminant of concern in the Record of Decision on a Proposed Remedial Action Plan for the Ruco Polymer facility. Due to the nature of prior Plant 114 operations associated with the automotive repair garage and paint shop, as well as the off-site operations of the adjacent Ruco Polymer facility, potential impacts to groundwater were found to be a potential environmental concern.

Recommendations

Due to the potential for adverse impacts to groundwater from the Ruco Polymer NPL site, as well as the on-site areas of potential environmental concern, it was recommended that two additional monitoring wells be installed in an effort to appropriately characterize upgradient and downgradient groundwater quality. It was recommended that one upgradient groundwater monitoring well be installed along the western boundary line of the site; and one additional downgradient groundwater monitoring well be installed near the eastern boundary of the site, downgradient of the on-site sanitary leaching pools. It was recommended that the monitoring wells be 2-inch diameter and drilled to 10 feet below the groundwater interface. It was recommended that groundwater samples be collected from the two newly installed monitoring wells, as well as the one existing monitoring well, S10MW-1, and analyzed for: VOCs (Method 8240), SVOCs (Method 8270) and priority pollutant metals (Method 6010).

Section 3



3.0 PHASE II SITE ASSESSMENT FIELD PROGRAM

This section describes the field activities undertaken as part of the Phase II Site Assessment. Daily Field Activity Reports, provided in Appendix B, document the daily field program activities which were conducted at the site.

3.1 Deviations from Phase I Recommendations

The Phase II Site Assessment field activities were conducted in accordance with the Phase I Site Assessment recommendations presented in the previous section of this report (see Section 2). However, there were some deviations from the recommended scope of work, and these exceptions are discussed below.

3.1.1 Former Maintenance Bay

Due to the removal of the hydraulic lifts and hydraulic oil tank, the soil boring planned for the former Hydraulic Lift Area was relocated adjacent to the floor drain in the center of the Maintenance Bay. Soil samples were taken from the boring adjacent to the floor drain in order to address possible contamination from the entire Maintenance Bay including the Former Hydraulic Lift Area. Drilling and sampling was conducted using the Geoprobe method rather than hollow stem augers. During the advancement of the soil probe, refusal occurred at a depth of 22 feet below grade. The refusal was apparently caused due to penetration into layers of finer sand with silt and some clay present in the subsurface beneath the site. Since the boring could not be advanced beyond a depth of 22 feet, the recommended boring depth to the groundwater interface could not be achieved.

3.1.2 Former Hydraulic Lift Area

As part of the revised Phase II Site Assessment field activities the two hydraulic lifts, as well as the associated hydraulic oil underground storage tank (UST), were excavated and removed

under Nassau County Department of Health (NCDH) supervision. Endpoint samples were taken from locations below the hydraulic oil UST and the western hydraulic lift. These samples were analyzed for the VOCs and SVOCs listed in Table 2 of Appendix B in NYSDEC's Spill Technology and Remediation Series (STARS) Memo #1, Petroleum - Contaminated Soil Guidance Policy. This UST and lift removal program was an addition to the Phase I Site Assessment recommended scope of work.

3.1.3 Former Paint Shop

Drilling and sampling were conducted using the Geoprobe method rather than hollow stem augers. However, restrictive access to this area within the building only allowed the use of an electric hammer drill for advancing the boring and sampling. During the advancement of the soil probe, subsurface obstructions were encountered and due to the mechanical limitations in utilizing the hammer drill, the boring could not be advanced beyond 6 feet below grade. Therefore, the recommended boring depth (i.e., to the groundwater interface) could not be achieved.

3.1.4 Former Gasoline Tanks/Loading Area

Drilling and sampling were conducted using the Geoprobe method rather than hollow stem augers. During the advancement of the soil probe, refusal occurred at a depth of 53 feet below grade. The refusal was apparently caused due to penetration into layers of finer sand and silt with some clay. Therefore, the recommended boring depth (i.e., to the groundwater interface) could not be achieved.

3.1.5 Former On-site Sanitary Disposal Systems

Drilling and sampling were conducted using the Geoprobe method rather than hollow stem augers. During the advancement of each soil probe, refusal occurred at 45 feet at boring location SDSA and at 53 feet at boring location SDSB. As discussed previously, the refusal was apparently

caused due to penetration into layers of fine sand and silt with some clay. Therefore, the recommended boring depths (i.e., to the groundwater interface) could not be achieved.

3.1.6 Groundwater Quality

The groundwater samples collected from the on-site monitoring wells, S10MW-1, MW-101 and MW-102, were analyzed for the parameters listed in Section 2.6. In addition, the groundwater samples were analyzed for the VOCs, including methyl tertiary butyl ether (MTBE), listed in Table 1 of STARS. The STARS Table 1 compounds were added for analysis in order to include MTBE and other compounds that are components of gasoline which could be present in groundwater if impacted from a potential release from the former gasoline tanks/loading area.

3.2 **Air Monitoring Activities**

During the installation of the monitoring wells and soil probe borings and excavation of the hydraulic oil UST and lifts, monitoring for volatile organic vapors in the workers' breathing zone and at the probe hole was conducted utilizing a flame ionization detector (FID) and a photoionization detector (PID). Air monitoring results were documented on daily Air Monitoring Forms which are presented in Appendix C. Prior to use, the FID, organic vapor analyzer (OVA-128), was calibrated using a 95 ppm concentration methane gas and the PID was calibrated using a 100 ppm concentration isobutylene gas. Daily Equipment Calibration Logs are presented in Appendix D. The PID was also utilized to screen the soil samples collected. Soil sample screening results are presented on Sample Information Records and Boring Logs contained in Appendices E and F, respectively.

3.3 **Monitoring Well Installation**

Groundwater monitoring well MW-101 was installed along the western boundary line in the northern portion of the site to characterize upgradient groundwater quality. Groundwater

monitoring well MW-102 was installed downgradient of the on-site leaching pools to characterize downgradient groundwater quality beneath the site.

Figure 1-2 shows the location of each well. The boring logs and well construction logs for each monitoring well are included in Appendix F and Appendix G, respectively. The wells were installed in borings advanced using the 4 1/4-inch hollow stem auger method of drilling. Well construction consisted of 2-inch I.D. PVC screen and casing with threaded joints. The bottom of the 0.010 inch slot screen was sealed with a threaded PVC plug.

The following summarizes the depth of the water table and screen at each installed well:

<u>Well ID</u>	<u>Depth of Water Table</u>	<u>Screened Interval</u>	<u>Depth of Well</u>
MW-101	64 feet	60.5 to 75.5 feet	75.5 feet
MW-102	65 feet	60.5 to 75.5 feet	75.5 feet

A sandpack was installed around the well screen using a tremie pipe. Above the sandpack, a minimum 2-foot thick bentonite seal was installed followed by a cement/bentonite grout for the remainder of the annulus to ground surface also using a tremie pipe. The wells were protected with a locking PVC cap and a steel flush mount vault with a bolted cover. Upon completion of well construction, the wells were developed using a submersible pump. The wells were considered developed after pumping for two hours or when the discharge water measured 50 nephelometric turbidity units (NTUs) or less, whichever occurred first.

3.4 Soil Sampling Program

Soil probes were installed in each of the following areas of environmental concern:

- Former Maintenance Bay (Soil probe FD-A)
- Former Paint Shop (Soil Probe PR-A)

- Former Gasoline Tanks/Loading Area (Soil probe GTL-A)
- Former On-Site Sanitary Disposal Systems (Soil probes SDS-A and SDS-B)

The soil probe and corresponding soil sampling locations at these four areas of environmental concern are shown on Figure 1-2.

Soil probes FD-A, GTL-A, SDS-A and SDS-B were advanced with a truck-mounted Earthprobe 200 Geoprobe System and soil probe PR-A was advanced with an electric hammer drill. The truck-mounted Earthprobe 200 and the electric hammer drill were both equipped with a 1 1/2-inch diameter by 2-foot soil probe sampler and drill rods. A 1-inch diameter clear plastic polyethylene terephthalate-G (PETG) sample tube liner, dedicated to each soil probe sample, was utilized to secure the soil sample within the Geoprobe soil sampler. The soil probes were installed by hydraulically driving the soil sampler, sample tube liner and drill rods to the desired depth. The soil sampler was then hydraulically lifted to the surface by the Geoprobe system.

Upon retrieving the soil samples, the samples were screened for volatile organic vapors using a PID. The soil sample screening results are presented on the boring logs included in Appendix F. All soil samples were physically and visually characterized and inspected for the presence of staining or discoloration. This information is also included on the boring logs. Based upon visual characterization and field instrumentation measurements, soil samples were collected from each soil probe sampling location for laboratory analysis.

All soil sampling equipment, with the exception of the PETG tube liners which were dedicated to each soil probe sample, was decontaminated between each sample location. Decontamination procedures consisted of an external alconox wash followed by a distilled/deionized water rinse. The decontamination water was secured in 55-gallon drums for proper disposal.

3.4.1 Former Maintenance Bay

Soil probe FD-A was advanced in the former maintenance bay adjacent to the floor drain. Based upon field measurements, soil probe FD-A was advanced to a depth of 22 feet below grade with soil samples collected at 5-foot intervals from 0 to 22 feet.

Based upon visual characterization and field instrumentation measurements, three soil samples were selected from this location for laboratory analysis. The samples selected for analysis were collected at depths of 0 to 2 feet, 5 to 7 feet and 15 to 17 feet below grade (floor). Each soil sample was analyzed for VOCs (Method 8240), SVOCs (Method 8270), TPHCs (Method 418.1), fuel-related constituents (Method 310-13), and priority pollutant metals (Method 6010). The analytical results of each soil sample are presented in Section 4.

3.4.2 Former Paint Shop

Soil probe PR-A was advanced in the former paint shop. Based upon field measurements, soil probe PR-A was advanced to a depth of 6 feet below grade with soil samples collected at 2-foot intervals from 0 feet to 6 feet.

A concrete core was advanced through the former paint shop floor slab utilizing an electric hammer drill equipped with a 3-inch diameter concrete coring bit. Soil probe PR-A was advanced with an electric hammer drill equipped with a 1 1/2-inch diameter by 2-foot soil probe sampler and drill rods. A 1-inch diameter clear PETG sample tube liner, dedicated to each soil probe sample, was utilized to secure the soil sample within the Geoprobe soil sampler. The soil probe was installed by driving the soil sampler, sample tube liner and drill rods to the desired depth. The soil sampler was then lifted to the surface.

Based upon visual characterization and field instrumentation measurements, three soil samples were selected from this soil probe for laboratory analysis. The samples selected for analysis were collected at depths of 0 to 2 feet, 2 to 4 feet and 4 to 6 feet below grade (floor). Each soil

sample was analyzed for VOCs (Method 8240), SVOCs (Method 8270) and priority pollutant metals (Method 6010). The analytical results of each soil sample are presented in Section 4.

3.4.3 Former Gasoline Tanks/Loading Area

One soil probe, GTL-A, was advanced in the former gasoline tanks/loading area to the west of Plant 114. This soil probe was advanced using the truck mounted Earthprobe 200 Geoprobe system, as described previously in Section 3.4. Based upon field measurements, soil probe GTL-A was installed to a depth of 53 feet below grade (ground surface) with soil samples collected at 5-foot intervals from 0 feet to 52 feet.

Based upon visual characterization and field instrumentation measurements, three soil samples were selected from this soil probe for laboratory analysis. The samples selected for analysis were collected at depths of 10 to 12 feet, 15 to 17 feet and 50-52 feet below grade (ground surface). Each soil sample was analyzed for STARS Table 1 compounds. The analytical results for each soil sample are presented in Section 4.

3.4.4 Former On-Site Sanitary Disposal Systems

Two soil probes, SDS-A and SDS-B, were advanced in the area of the former on-site sanitary disposal systems to the east of Plant 114. These soil probes were advanced using the truck-mounted Earthprobe 200 Geoprobe System, as described previously in Section 3.4. Based upon field measurements, soil probe SDS-A was advanced to a depth of 45 feet below grade (ground surface) with soil samples collected at 5-foot intervals from 3 feet to 45 feet. Soil probe SDS-B was advanced to a depth of 53 feet below grade (ground surface) with soil samples collected at 5-foot intervals from 3 feet to 53 feet.

Based upon visual characterization and field instrumentation measurements, three soil samples were selected from each soil probe for laboratory analysis. The samples selected for analysis from SDS-A were collected at depths of 3 to 5 feet, 23-25 feet and 43 to 45 feet. The

samples selected for analysis from SDS-B were obtained at depths of 13 to 15 feet, 18 to 20 feet and 51 to 53 feet. Each soil sample was analyzed for VOCs (Method 8240), SVOCs (Method 8270), TPHCs (Method 418.1), fuel-related constituents (Method 310-13) and priority pollutant metals (Method 6010). The analytical results for each soil sample are presented in Section 4.

3.5 Groundwater Sampling Program

Groundwater sampling activities were conducted at the three groundwater monitoring wells located on the site, S10MW-1, MW-101 and MW-102. Figure 1-2 shows the location of each monitoring well. Prior to groundwater sampling, a minimum of three times the volume of standing water in the casing and sandpack in each well was removed with a disposable bailer. One groundwater sample was collected from each monitoring well for laboratory analysis. Each groundwater sample was analyzed for VOCs (Method 8240), SVOCs (Method 8270) and priority pollutant metals (Method 6010). In addition, since the groundwater from the monitoring wells was turbid (>50 NTUs), additional groundwater samples were obtained from the wells and the samples were filtered at the laboratory to remove soil particles prior to analysis for priority pollutant metals. The analytical results of all of the groundwater samples are presented in Section 4.

3.6 Hydraulic Oil Underground Storage Tank Excavation and Removal

This section provides a general description of the field activities and observations recorded during the hydraulic oil underground storage tank (UST) and hydraulic lifts excavation/removal and endpoint sampling activities undertaken at Plant 114.

Prior to the excavation of the UST, the work area was secured with traffic cones and caution tape. AB Oil Company utilized a pump truck to remove approximately 125 gallons of liquid from the UST and its two associated hydraulic lifts. Tyree Brothers Inc. sawcut the concrete pavement above the tank and around the two hydraulic lifts, and the concrete was broken with a jackhammer. The soil and pavement was then removed with a backhoe exposing the top of the tank at a depth of approximately 1.5 feet below grade. Fill lines and piping which

were connected to the UST were disconnected. Tyree removed the two hydraulic lifts with a backhoe, and the residual hydraulic oil was pumped from the lifts to the tanker truck by AB Oil Company. The backhoe was also utilized to excavate and remove the UST.

During the excavation of the UST, ambient air quality was monitored utilizing a flame ionization detector (FID) and the excavated soil was screened with the FID. The excavated soil was physically and visually characterized and inspected for the presence of staining or discoloration. As indicated in Table 3-1, the FID did not detect any measurable volatile organic vapors emanating from the excavated soil or endpoint soil samples. No staining, discoloration or petroleum odors were present.

Upon removal of soil from around the tank, the contractor utilized the backhoe to pull the tank out of the ground. The tank was then removed from the excavation with the backhoe and secured at grade.

Upon removal of the UST from the excavation, no visibly stained soils were observed on the side walls or bottom of the excavation. The tank was visually inspected and appeared to be in good condition. A representative of the Nassau County Department of Health (NCDOH) confirmed that there were no holes or severe corrosion on the tank. The NCDOH representative determined that the soil beneath and on the side walls of the UST and lift excavation was not visibly contaminated and did not emit a petroleum odor.

GAC directed the collection and analysis of endpoint soil samples to further document the condition of subsurface soil beneath and surrounding the tank and lifts. Three samples, USTHOB, USTOSE and USTONW, were obtained from the excavation for the UST and a lift immediately adjacent to the UST. One soil sample was collected from the bottom of the excavation (USTHOB), and two samples were collected from the sidewalls of the excavation (USTOSE and USTONW) in accordance with NYSDEC's STARS Memo No. 1. Figure 3-1 depicts the locations of the endpoint samples. The bottom of the UST was approximately 6 feet below grade. Sample USTHOB was collected from beneath the bottom of the tank at a depth of

Table 3-1

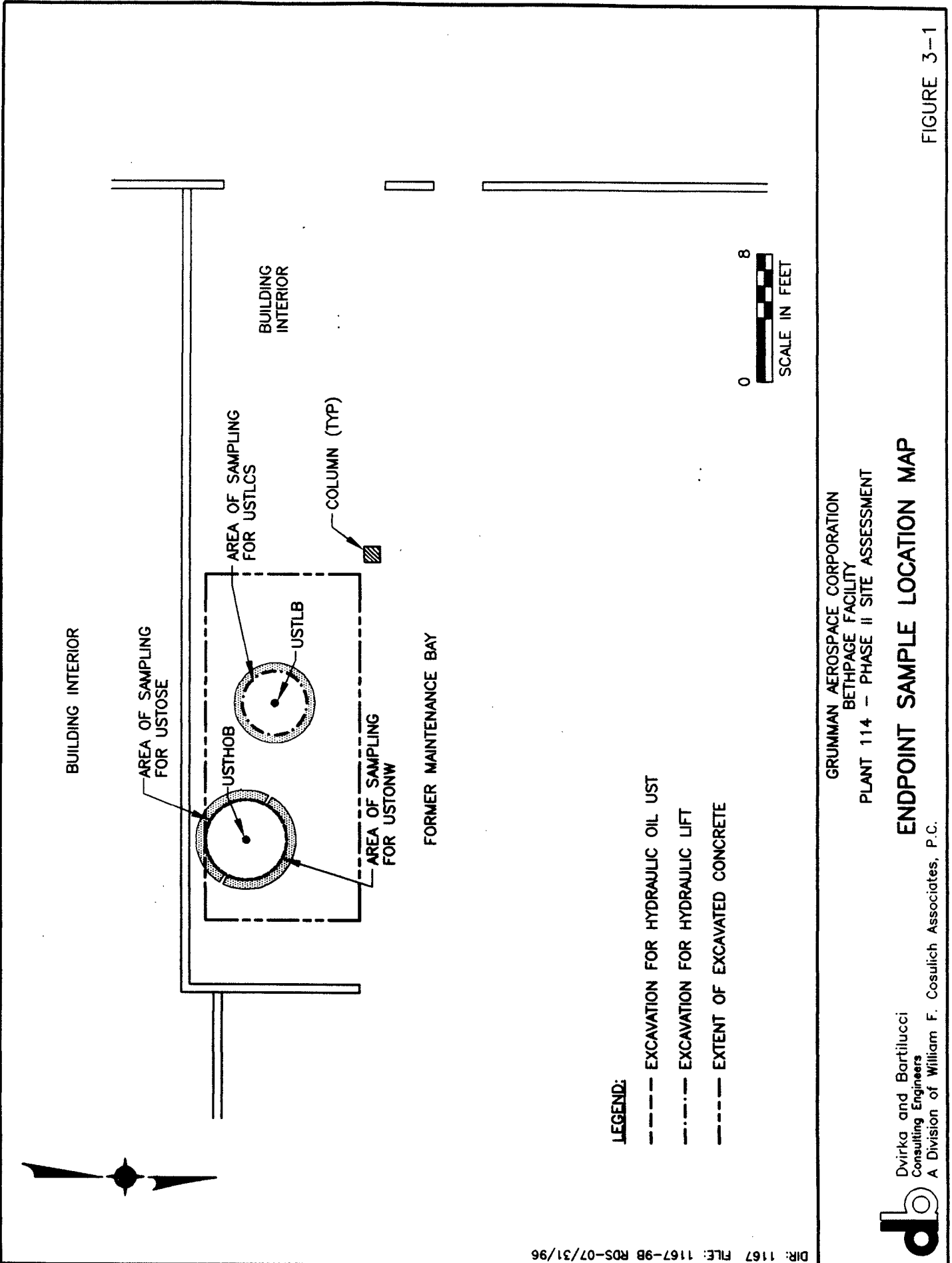
SOIL SAMPLE FIELD OBSERVATIONS

Soil Sample Identification Number	Depth Below Grade (ft)	Headspace Measurements Total VOC (ppm)	Field Characterization	
			Discoloration	Odor
Overburden Soil	0-5	0	None	None
USTHOB	6-7	0	None	None
USTOSE	3-5	0	None	None
USTONW	3-5	0	None	None
USTLB	8-9	0	None	None
USTLCS	4-5	0	None	None

Notes:

ppm - parts per million.

Refer to Figure 3-1 for location of samples.



DIR: 1167 FILE: 1167-98 RDS-07/31/96

GRUMMAN AEROSPACE CORPORATION
 BETHPAGE FACILITY
 PLANT 114 -- PHASE II SITE ASSESSMENT

ENDPOINT SAMPLE LOCATION MAP

db
 Dvirka and Bartilucci
 Consulting Engineers
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approximately 6 to 7 feet. Samples USTOSE and USTONW were collected from the southeast and northwest sidewalls of the excavation at a depth of approximately 3 to 5 feet below grade. The soil samples were collected from the center of the backhoe bucket. Samples were transferred into laboratory supplied jars utilizing disposable sterile polyethylene scoops. Soil samples collected for laboratory analysis were stored in a cooler with ice and transferred to the laboratory. The endpoint samples were analyzed for select VOCs (Method 8021) and select SVOCs (Method 8270) as contained in STARS Table 2. The analytical results for each endpoint sample are presented in Section 4.

Two soil samples, USTLB and USTLCS, were also collected from the bottom (USTLB) of the excavation for the western hydraulic lift and the sidewalls (USTLCS) of the excavation in accordance with NYSDEC's STARS Memo No. 1. Figure 3-1 shows the locations of these endpoint samples. The bottom of the western hydraulic lift was approximately 8 feet below grade. Sample USTLB was collected from beneath the bottom of the lift at a depth of 8 to 9 feet. Sample USTLCS was collected as a composite from the four sidewalls of the excavation at a depth of approximately 4 to 5 feet. The soil samples were collected from the center of the backhoe bucket. Samples were transferred into laboratory supplied jars utilizing disposable sterile polyethylene scoops. Soil samples collected for laboratory analysis were stored in a cooler with ice and transferred to the laboratory. The endpoint samples were analyzed for select VOCs (Method 8021) and select SVOCs (Method 8270) as contained in STARS Table 2. The analytical results for each endpoint sample are presented in Section 4.

Upon completion of endpoint soil sampling, the excavation was backfilled with the excavated soil. Once the analytical results were tabulated and reviewed, it was determined by the NCDOH that it was a "clean" closure and that the former UST and lift area could be completely backfilled and restored to its original condition. GAC then had the area backfilled and resurfaced with concrete.

Section 4

4.0 FINDINGS

This section presents the findings of the Phase II Site Assessment including a summary of the analytical results of the soil and groundwater samples obtained during the Phase II field program. Soil sample results are compared to recommended soil cleanup objectives and typical Eastern USA Background soil contaminant concentration ranges identified in NYSDEC's Technical and Administrative Guidance Memorandum (TAGM) No. 4046. Groundwater sample results are compared to NYSDEC Class GA groundwater standards and guidance values.

4.1 Soil Sampling Program

As previously discussed in Section 3, soil probes were installed in each of the following areas of environmental concern:

- Former Maintenance Bay (Soil probe FD-A)
- Former Paint Shop (Soil probe PR-A)
- Former Gasoline Tanks/Loading Area (Soil probe GTL-A)
- Former On-Site Sanitary Disposal Systems (Soil probes SDS-A and SDS-B)

The analytical results of the soil samples selected for laboratory analysis from the above-referenced soil probes are presented on Tables 4-1 through 4-12. The laboratory data is included in Appendix H.

4.1.1 Former Maintenance Bay

As previously discussed in Section 3, one soil probe, FD-A, was advanced in the former maintenance bay adjacent to the floor drain. The analytical results of the soil samples selected for laboratory analysis from the above referenced soil probe are presented on Tables 4-1 through 4-4.

TABLE 4-1
GRUMMAN AEROSPACE CORPORATION - PLANT 114
PHASE II SITE ASSESSMENT
FORMER MAINTENANCE BAY
SOIL SAMPLING RESULTS
VOLATILE ORGANIC COMPOUNDS

SAMPLE LOCATION	FD-A01	FD-A02	FD-A04	FIDBLK	CONTRACT	NYSDEC
SAMPLE DEPTH	0-2 FT	5-7 FT	15-17 FT	NA	REQUIRED	RECOMMENDED
DATE OF COLLECTION	6/28/96	6/28/96	6/28/96	6/28/96	DETECTION	SOIL CLEANUP
DILUTION FACTOR	1	1	1	1	LIMITS	OBJECTIVES
PERCENT SOLIDS	96	96	98	NA	(ug/kg)	(ug/kg)
UNITS	(ug/kg)	(ug/kg)	(ug/kg)	(ug/l)		
Chloromethane	U	U	U	U	10	---
Bromomethane	U	U	U	U	10	---
Vinyl Chloride	U	U	U	U	10	200
Chloroethane	U	U	U	U	10	1900
Methylene Chloride	9 JB	8 JB	7 JB	8	10	100
Acetone	11	U	U	U	10	200
Carbon Disulfide	U	U	U	U	10	2700
1,1-Dichloroethene	U	U	U	U	10	400
1,1,1-Dichloroethane	U	U	U	U	10	200
1,2-Dichloroethene (total)	U	U	U	U	10	300
Chloroform	U	U	U	U	10	300
1,2-Dichloroethane	U	U	U	U	10	100
2-Butanone	U	U	U	U	10	300
1,1,1-Trichloroethane	U	U	U	U	10	800
Carbon Tetrachloride	U	U	U	U	10	600
Bromodichloromethane	U	U	U	U	10	---
1,2-Dichloropropane	U	U	U	U	10	---
cis-1,3-Dichloropropene	U	U	U	U	10	---
Trichloroethene	U	U	U	U	10	700
Dibromochloromethane	U	U	U	U	10	---
1,1,2-Trichloroethane	U	U	U	U	10	---
Benzene	U	U	U	U	10	60
Trans-1,3-Dichloropropene	U	U	U	U	10	---
Bromoform	U	U	U	U	10	---
4-Methyl-2-Pentanone	U	U	U	U	10	1000
2-Hexanone	U	U	U	U	10	---
Tetrachloroethene	U	U	U	U	10	1400
1,1,2,2-Tetrachloroethane	U	U	U	U	10	600
Toluene	U	U	U	U	10	1500
Chlorobenzene	U	U	U	U	10	1700
Ethylbenzene	U	U	U	U	10	5500
Styrene	U	U	U	U	10	---
Total Xylenes	U	U	U	U	10	1200
Vinyl Acetate	U	U	U	U	10	---
TOTAL VOCs	20	8	7	8	10	10000

QUALIFIERS
 U: Compound analyzed for but not detected
 B: Compound found in the blank as well as the sample
 J: Compound found at a concentration below the detection limit

NOTES
 ---: Not established

TABLE 4-2
 GRUMMAN AEROSPACE CORPORATION - PLANT 114
 PHASE II SITE ASSESSMENT
 FORMER MAINTENANCE BAY
 SOIL SAMPLING RESULTS
 SEMIVOLATILE ORGANIC COMPOUNDS

SAMPLE LOCATION	FD-A01	FD-A02	FD-A04	FLDBLK	CONTRACT REQUIRED DETECTION LIMITS	NYSDEC RECOMMENDED SOIL CLEANUP OBJECTIVES
	(ug/kg)	(ug/kg)	(ug/kg)	(ug/l)		
Phenol	96	96	98	NA	330	30 OR MDL
bis(2-Chloroethyl)ether	U	U	U	U	330	---
2-Chlorophenol	U	U	U	U	330	800
1,3-Dichlorobenzene	U	U	U	U	330	1600
1,4-Dichlorobenzene	U	U	U	U	330	8500
1,2-Dichlorobenzene	U	U	U	U	330	7900
2-Methylphenol	U	U	U	U	330	100 OR MDL
2,2'-oxybis(1-chloropropane)	U	U	U	U	330	---
4-Methylphenol	U	U	U	U	330	900
N-Nitroso-di-n-propylamine	U	U	U	U	330	---
Hexachloroethane	U	U	U	U	330	200 OR MDL
Nitrobenzene	U	U	U	U	330	4400
Isophorone	U	U	U	U	330	330 OR MDL
2-Nitrophenol	U	U	U	U	330	---
2,4-Dimethylphenol	U	U	U	U	330	400
bis(2-Chloroethoxy)methane	U	U	U	U	330	3400
2,4-Dichlorophenol	U	U	U	U	330	13000
1,2,4-Trichlorobenzene	U	U	U	U	330	220 OR MDL
Naphthalene	U	U	U	U	330	---
4-Chloroaniline	U	U	U	U	330	---
Hexachlorobutadiene	U	U	U	U	330	240 OR MDL
4-Chloro-3-methylphenol	U	U	U	U	330	36400
2-Methylnaphthalene	U	U	U	U	330	---
Hexachlorocyclopentadiene	U	U	U	U	330	100
2,4,6-Trichlorophenol	U	U	U	U	800	---
2,4,5-Trichlorophenol	U	U	U	U	330	430 OR MDL
2-Chloronaphthalene	U	U	U	U	800	2000
2-Nitroaniline	U	U	U	U	330	41000
Dimethylphthalate	U	U	U	U	330	1000
Acenaphthylene	U	U	U	U	800	500 OR MDL
2,6-Dinitrotoluene	U	U	U	U	330	50000
3-Nitroaniline	U	U	U	U	800	200 OR MDL
Acenaphthene	U	U	U	U	330	100 OR MDL
2,4-Dinitrophenol	U	U	U	U	800	---
4-Nitrophenol	U	U	U	U	800	---

TABLE 4-2
GRUMMAN AEROSPACE CORPORATION - PLANT 114
PHASE II SITE ASSESSMENT
FORMER MAINTENANCE BAY
SOIL SAMPLING RESULTS
SEMIVOLATILE ORGANIC COMPOUNDS

SAMPLE LOCATION	FD-A01	FD-A02	FD-A04	FLDBLK	CONTRACT REQUIRED DETECTION LIMITS	NYSDEC RECOMMENDED SOIL CLEANUP OBJECTIVES
	(ug/kg)	(ug/kg)	(ug/kg)	(ug/l)		
Dibenzofuran	U	U	U	U	330	6200
2,4-Dinitrotoluene	U	U	U	U	330	---
Diethylphthalate	U	U	U	U	330	7100
4-Chlorophenyl-phenylether	U	U	U	U	330	---
Fluorene	U	U	U	U	330	50000
4-Nitroaniline	U	U	U	U	800	---
4,6-Dinitro-2-methylphenol	U	U	U	U	800	---
N-Nitrosodiphenylamine	U	U	U	U	330	---
4-Bromophenyl-phenylether	U	U	U	U	330	---
Hexachlorobenzene	U	U	U	U	330	410
Pentachlorophenol	U	U	U	U	800	1000 OR MDL
Phenanthrene	U	U	U	U	330	50000
Anthracene	U	U	U	U	330	50000
Carbazole	U	U	U	U	330	---
Di-n-butylphthalate	U	U	U	U	330	8100
Fluoranthene	U	U	U	U	330	50000
Pyrene	U	U	U	U	330	50000
Butylbenzylphthalate	U	U	U	U	330	50000
3-3'-Dichlorobenzidine	U	U	U	U	330	---
Benzo (a) anthracene	U	U	U	U	330	224 OR MDL
Chrysene	U	U	U	U	330	400
bis(2-Ethylhexyl)phthalate	49	85	U	U	330	50000
Di-n-octylphthalate	U	U	U	U	330	50000
Benzo(b)flouranthene	U	U	U	U	330	1100
Benzo(k)flouranthene	U	U	U	U	330	1100
Benzo(a)pyrene	U	U	U	U	330	61 OR MDL
Indeno(1,2,3-cd)pyrene	U	U	U	U	330	3200
Dibenz(a,h)anthracene	U	U	U	U	330	14 OR MDL
Benzo(g,h,i)perylene	U	U	U	U	330	50000
Benzy Alcohol	U	U	U	U	330	---
Benzoic Acid	U	U	U	U	800	---
TOTAL PAHs	0	0	0	0		---
TOTAL CARCINOGEN PAHs	0	0	0	0		---
TOTAL SVOCs	49	85	0	0		500000

NOTES
----: Not established

QUALIFIERS
U: Compound analyzed for but not detected
J: Compound found at a concentration below the detection limit

TABLE 4-3
 GRUMMAN AEROSPACE CORPORATION - PLANT 114
 PHASE II SITE ASSESSMENT
 FORMER MAINTENANCE BAY
 SOIL SAMPLING RESULTS
 TOTAL PETROLEUM HYDROCARBONS AND FUEL FINGERPRINT

SAMPLE LOCATION	FD-A01	FD-A02	FD-A04	FLDBLK
SAMPLE DEPTH	0-2 FT	5-7 FT	15-17 FT	NA
DATE OF COLLECTION	6/28/96	6/28/96	6/28/96	6/28/96
DILUTION FACTOR	1	1	1	1
PERCENT SOLIDS	96	96	98	NA
UNITS	(mg/kg)	(mg/kg)	(mg/kg)	(ug/l)
Total Petroleum Hydrocarbons	61	20	28	U
Gasoline	U	U	U	U
TPH (as Gasoline)	U	U	U	U
Kerosene	U	U	U	U
TPH (as Kerosene)	U	U	U	U
#2 Fuel Oil	U	U	U	U
TPH(as #2 Fuel Oil)	U	U	U	U
#6 Fuel Oil	U	U	U	U
TPH(as #6 Fuel Oil)	U	U	U	U
Lubricating Oil	U	U	U	U
TPH (as Lubricating Oil)	U	U	U	U
TPH (as Jet Fuel)	U	U	U	U
TPH (as Hydraulic Oil)	U	U	U	U
TPH(as 10W40 Motor Oil)	U	U	U	U

QUALIFIERS

U: Compound analyzed for but not detected

TABLE 4-4
 GRUMMAN AEROSPACE CORPORATION - PLANT 114
 PHASE II SITE ASSESSMENT
 FORMER MAINTENANCE BAY
 SOIL SAMPLING RESULTS
 PRIORITY POLLUTANT METALS

SAMPLE LOCATION	FD-A01	FD-A02	FD-A04	FLDBLK	INSTRUMENT DETECTION LIMITS	NYSDEC RECOMMENDED SOIL CLEANUP OBJECTIVES	EASTERN USA BACKGROUND
SAMPLE DEPTH	0-2 FT	5-7 FT	15-17 FT	NA	(ug/l)	(mg/kg)	(mg/kg)
DATE OF COLLECTION	6/28/96	6/28/96	6/28/96	6/28/96			
DILUTION FACTOR	1	1	1	1			
PERCENT SOLIDS	96	96	98	NA			
UNITS	(mg/kg)	(mg/kg)	(mg/kg)	(ug/l)	(ug/l)	(mg/kg)	(mg/kg)
Antimony	1.3 B	U	1.4 B	U	31	SB	----
Arsenic	1.3 B	2.0 U	0.76 B	3.6 B	5	7.5 or SB	3 - 12*
Beryllium	U	U	0.04 B	2.4 B	4	0.16 or SB	0 - 1.75
Cadmium	U	U	U	2.4 B	2	1 or SB, 10***	0.1 - 1
Chromium	9.0	11.5	3.3	6.7 B	4	10 or SB, 50***	1.5 - 40*
Copper	5.0	11.2	6.7	6.6 B	10	25 or SB	1 - 50
Lead	2.8	25.6	1.3	U	35	SB	200 - 500**
Mercury	U	U	U	U	0.2	0.1	0.001 - 0.2
Nickel	5.9 B	7.1 B	1.9 B	5.7 B	38	13 or SB	0.5 - 25
Selenium	U	U	U	U	5	2 or SB	0.1 - 3.9
Silver	0.15 B	U	0.30 B	3.2 B	7	SB	----
Thallium	1.1 B	1.1 B	2.3	U	5	SB	----
Zinc	12.7	20.2	5.9	10.6 B	12	20 or SB	9 - 50

QUALIFIERS

U: Compound analyzed for but not detected
 B: Compound concentration is less than the CRDL
 but greater than the IDL.

NOTES

----: Not established
 [shaded box]: Value exceeds NYSDEC Recommended Soil Cleanup Objectives
 SB: Site Background
 *: New York State Background
 **: Background for metropolitan or suburban areas
 ***: Proposed revisions to NYSDEC Recommended Soil Cleanup Objectives

4.1.1.1 - Volatile Organic Compounds

The results of the former maintenance bay soil samples analyzed for VOCs are presented in Table 4-1. Three soil samples were analyzed for VOCs. As indicated in Table 4-1, methylene chloride was detected in all of the samples, as well as the method blank and field blank. However, since methylene chloride is a common laboratory contaminant and it was detected in the field and method blanks, its presence in the soil samples can be attributed to laboratory contamination.

In addition, acetone was detected at a concentration of 11 ug/kg in the soil sample obtained at FDA-01 at a depth of 0-2 feet. However, the concentration detected, 11 ug/kg, was below the NYSDEC recommended soil cleanup objective of 200 ug/kg for this compound. Furthermore, acetone is a common laboratory contaminant and its presence can most probably be attributed to laboratory contamination.

4.1.1.2 - Semivolatile Organic Compounds

The results of the former maintenance bay soil samples analyzed for SVOCs are presented in Table 4-2. Three soil samples were analyzed for SVOCs. As indicated in Table 4-2, the SVOC bis(2-ethylhexyl)phthalate was detected in the soil samples obtained at FDA-01 (0-2 feet) and FDA-02 (5-7 feet) at estimated concentrations of 49 ug/kg and 85 ug/kg, respectively. However, the concentrations detected in these soil samples were below the NYSDEC soil cleanup objective of 50,000 ug/kg for this compound.

4.1.1.3 - Total Petroleum Hydrocarbons and Fuel Fingerprint

The results of the former maintenance bay soil samples analyzed for TPHCs and fuel-related constituents are presented in Table 4-3. Three soil samples were analyzed for TPHCs and fuel fingerprint. As indicated in Table 4-3, TPHCs were detected in the soil samples at concentrations ranging from 20 mg/kg to 61 mg/kg. There is no NYSDEC soil cleanup objective for TPHCs.

To determine if the TPHCs detected were attributable to fuel-related compounds, the soil samples were also analyzed for fuel-related constituents. The analytical results in Table 4-3 indicate that fuel-related constituents were not detected. As a result, it appears that the detected levels of TPHCs are not associated with any fuel-related discharges.

4.1.1.4 - Priority Pollutant Metals

The results of the former maintenance bay soil samples analyzed for priority pollutant metals are presented in Table 4-4. Three soil samples were analyzed for priority pollutant metals. As indicated in Table 4-4, priority pollutant metals were detected in all three samples; however, only chromium was detected in one sample at a level in excess of the NYSDEC cleanup objective. Chromium was detected at a concentration of 11.5 mg/kg in sample FD-A02, obtained at a depth of 5-7 feet below grade (floor). This concentration was above the NYSDEC recommended soil cleanup objective for chromium.

It is important to note that the existing NYSDEC recommended soil cleanup objective for chromium of 10 mg/kg was utilized for comparative purposes on Table 4-4. However, as noted on Table 4-4, the proposed revision to the NYSDEC soil cleanup objective is 50 mg/kg for chromium. If the revised NYSDEC recommended soil cleanup objective for chromium is utilized, the analytical results for chromium are not in exceedance. Furthermore, the concentration detected was not above the range of typical background levels for this metal in soils of the eastern United States.

4.1.2 Former Paint Shop

As previously discussed in Section 3, one soil probe, PR-A, was advanced in the former paint shop. The analytical results of the soil samples selected for laboratory analysis from the above-referenced soil probe are presented on Tables 4-5 through 4-7.

TABLE 4-5
 GRUMMAN AEROSPACE CORPORATION - PLANT 114
 PHASE II SITE ASSESSMENT
 FORMER PAINT SHOP
 SOIL SAMPLING RESULTS
 VOLATILE ORGANIC COMPOUNDS

SAMPLE LOCATION	PR-A01	PR-A02	PR-A03	FLDBLK	CONTRACT REQUIRED DETECTION LIMITS (ug/kg)	NYSDEC RECOMMENDED SOIL CLEANUP OBJECTIVES (ug/kg)
SAMPLE DEPTH	0-2 FT	2-4 FT	4-6 FT	NA		
DATE OF COLLECTION	6/28/96	6/28/96	6/28/96	6/28/96		
DILUTION FACTOR	1	1	1	1		
PERCENT SOLIDS	96	82	97	NA		
UNITS	(ug/kg)	(ug/kg)	(ug/kg)	(ug/l)	(ug/kg)	(ug/kg)
Chloromethane	U	U	U	U	10	----
Bromomethane	U	U	U	U	10	----
Vinyl Chloride	U	U	U	U	10	200
Chloroethane	U	U	U	U	10	1900
Methylene Chloride	5 JB	6 JB	5 JB	8 JB	10	100
Acetone	U	22	U	U	10	200
Carbon Disulfide	U	U	U	U	10	2700
1,1-Dichloroethene	U	U	U	U	10	400
1,1,1-Dichloroethane	U	U	U	U	10	200
1,2-Dichloroethene (total)	U	U	U	U	10	300
Chloroform	U	U	U	U	10	300
1,2-Dichloroethane	U	U	U	U	10	100
2-Butanone	U	U	U	U	10	300
1,1,1-Trichloroethane	U	U	U	U	10	800
Carbon Tetrachloride	U	U	U	U	10	600
Bromodichloromethane	U	U	U	U	10	----
1,2-Dichloropropane	U	U	U	U	10	----
cis-1,3-Dichloropropene	U	U	U	U	10	700
Trichloroethene	U	U	U	U	10	----
Dibromochloromethane	U	U	U	U	10	----
1,1,2-Trichloroethane	U	U	U	U	10	60
Benzene	U	U	U	U	10	----
Trans-1,3-Dichloropropene	U	U	U	U	10	----
Bromoform	U	U	U	U	10	1000
4-Methyl-2-Pentanone	U	U	U	U	10	----
2-Hexanone	U	U	U	U	10	1400
Tetrachloroethene	U	U	U	U	10	600
1,1,2,2-Tetrachloroethane	U	U	U	U	10	1500
Toluene	U	U	U	U	10	1700
Chlorobenzene	U	U	U	U	10	5500
Ethylbenzene	U	U	U	U	10	----
Styrene	U	U	U	U	10	1200
Total Xylenes	U	U	U	U	10	----
Vinyl Acetate	U	U	U	U	10	----
TOTAL VOCs	5	28	5	8	10	10000

QUALIFIERS
 U: Compound analyzed for but not detected
 B: Compound found in the blank as well as the sample
 J: Compound found at a concentration below the detection limit

NOTES
 ----: Not established

TABLE 4-6
 GRUMMAN AEROSPACE CORPORATION - PLANT 114
 PHASE II SITE ASSESSMENT
 FORMER PAINT SHOP
 SOIL SAMPLING RESULTS
 SEMIVOLATILE ORGANIC COMPOUNDS

SAMPLE LOCATION	PR-A01	PR-A02	PR-A03	FLDBLK	CONTRACT	NYSDEC
SAMPLE DEPTH	0-2 FT	2-4 FT	4-6 FT	NA	REQUIRED	RECOMMENDED
DATE OF COLLECTION	6/28/96	6/28/96	6/28/96	6/28/96	DETECTION	SOIL CLEANUP
DILUTION FACTOR	1	1	1	1	LIMITS	OBJECTIVES
PERCENT SOLIDS	96	96	97	NA		
UNITS	(ug/kg)	(ug/kg)	(ug/kg)	(ug/l)	(ug/kg)	(ug/kg)
Phenol	U	U	U	U	330	30 OR MDL
bis(2-Chloroethyl)ether	U	U	U	U	330	---
2-Chlorophenol	U	U	U	U	330	800
1,3-Dichlorobenzene	U	U	U	U	330	1600
1,4-Dichlorobenzene	U	U	U	U	330	8500
1,2-Dichlorobenzene	U	U	U	U	330	7900
2-Methylphenol	U	U	U	U	330	100 OR MDL
2,2'-oxybis(1-chloropropane)	U	U	U	U	330	---
4-Methylphenol	U	U	U	U	330	900
N-Nitroso-di-n-propylamine	U	U	U	U	330	---
Hexachloroethane	U	U	U	U	330	---
Nitrobenzene	U	U	U	U	330	200 OR MDL
Isophorone	U	U	U	U	330	4400
2-Nitrophenol	U	U	U	U	330	330 OR MDL
2,4-Dimethylphenol	U	U	U	U	330	---
bis(2-Chloroethoxy)methane	U	U	U	U	330	400
2,4-Dichlorophenol	U	U	U	U	330	3400
1,2,4-Trichlorobenzene	U	U	U	U	330	13000
Naphthalene	U	U	U	U	330	220 OR MDL
4-Chloroaniline	U	U	U	U	330	---
Hexachlorobutadiene	U	U	U	U	330	---
4-Chloro-3-methylphenol	U	U	U	U	330	240 OR MDL
2-Methylnaphthalene	U	U	U	U	330	36400
Hexachlorocyclopentadiene	U	U	U	U	330	---
2,4,6-Trichlorophenol	U	U	U	U	330	100
2,4,5-Trichlorophenol	U	U	U	U	800	---
2-Chloronaphthalene	U	U	U	U	330	430 OR MDL
2-Nitroaniline	U	U	U	U	800	---
Dimethylphthalate	U	U	U	U	330	2000
Acenaphthylene	U	U	U	U	330	41000
2,6-Dinitrotoluene	U	U	U	U	330	1000
3-Nitroaniline	U	U	U	U	800	500 OR MDL
Acenaphthene	U	U	U	U	330	50000
2,4-Dinitrophenol	U	U	U	U	800	200 OR MDL
4-Nitrophenol	U	U	U	U	800	100 OR MDL

TABLE 4-6
 GRUMMAN AEROSPACE CORPORATION - PLANT 114
 PHASE II SITE ASSESSMENT
 FORMER PAINT SHOP
 SOIL SAMPLING RESULTS
 SEMIVOLATILE ORGANIC COMPOUNDS

SAMPLE LOCATION	PR-A01	PR-A02	PR-A03	FLDBLK	CONTRACT	NYSDEC
SAMPLE DEPTH	0-2 FT	2-4 FT	4-6 FT	NA	REQUIRED	RECOMMENDED
DATE OF COLLECTION	6/28/96	6/28/96	6/28/96	6/28/96	DETECTION	SOIL CLEANUP
DILUTION FACTOR	1	1	1	1	LIMITS	OBJECTIVES
PERCENT SOLIDS	96	96	97	NA		
UNITS	(ug/kg)	(ug/kg)	(ug/kg)	(ug/l)	(ug/kg)	(ug/kg)
Dibenzofuran	U	U	U	U	330	6200
2,4-Dinitrotoluene	U	U	U	U	330	-----
Diethylphthalate	U	U	U	U	330	7100
4-Chlorophenyl-phenylether	U	U	U	U	330	-----
Fluorene	U	U	U	U	330	50000
4-Nitroaniline	U	U	U	U	800	-----
4,6-Dinitro-2-methylphenol	U	U	U	U	800	-----
N-Nitrosodiphenylamine	U	U	U	U	330	-----
4-Bromophenyl-phenylether	U	U	U	U	330	-----
Hexachlorobenzene	U	U	U	U	330	410
Pentachlorophenol	100	U	U	U	800	1000 OR MDL
Phenanthrene	U	U	U	U	330	50000
Anthracene	U	U	U	U	330	50000
Carbazole	U	U	U	U	330	-----
Di-n-butylphthalate	U	U	U	U	330	8100
Fluoranthene	U	U	U	U	330	50000
Pyrene	160	96	U	U	330	50000
Butylbenzylphthalate	U	U	U	U	330	50000
3-3'-Dichlorobenzidine	U	U	U	U	330	224 OR MDL
Benzo (a) anthracene	120	72	U	U	330	400
Chrysene	U	U	U	U	330	50000
bis(2-Ethylhexyl)phthalate	U	U	U	U	330	50000
Di-n-octylphthalate	U	U	U	U	330	1100
Benzo(b)fluoranthene	U	U	U	U	330	1100
Benzo(k)fluoranthene	U	U	U	U	330	61 OR MDL
Benzo(a)pyrene	120	43	U	U	330	3200
Indeno(1,2,3-cd)pyrene	U	U	U	U	330	14 OR MDL
Dibenz(a,h)anthracene	180	57	U	U	330	50000
Benzo(g,h,i)perylene	U	U	U	U	330	-----
Benzyl Alcohol	U	U	U	U	330	-----
Benzoic Acid	U	U	U	U	800	-----
TOTAL PAHs	300	100	0	0		-----
TOTAL CARCINOGEN PAHs	120	43	0	0		-----
TOTAL SVOCs	680	268	0	0		500000

QUALIFIERS
 U: Compound analyzed for but not detected
 J: Compound found at a concentration below the detection limit

NOTES
 -----: Not established

TABLE 4-7
GRUMMAN AEROSPACE CORPORATION - PLANT 114
PHASE II SITE ASSESSMENT
FORMER PAINT SHOP
SOIL SAMPLING RESULTS
PRIORITY POLLUTANT METALS

SAMPLE LOCATION	PR-A01	PR-A02	PR-A03	FLDBLK	INSTRUMENT DETECTION LIMITS	NYSDEC RECOMMENDED SOIL CLEANUP OBJECTIVES	EASTERN USA BACKGROUND
SAMPLE DEPTH	0-2 FT	2-4 FT	4-6 FT	NA	(ug/l)	(mg/kg)	(mg/kg)
DATE OF COLLECTION	6/28/96	6/28/96	6/28/96	6/28/96	(ug/l)	(mg/kg)	(mg/kg)
DILUTION FACTOR	1	1	1	1			
PERCENT SOLIDS	96	82	97	NA			
UNITS	(mg/kg)	(mg/kg)	(mg/kg)	(ug/l)	(ug/l)	(mg/kg)	(mg/kg)
Antimony	1.5 B	2.6 B	1.3 B	U	31	SB	----
Arsenic	5.0 B	6.3 U	0.96 B	3.6 B	5	7.5 or SB	3 - 12*
Beryllium	0.04 B	U	U	2.4 B	4	0.16 or SB	0 - 1.75
Cadmium	7.7 U	U	7.4 U	2.4 B	2	1 or SB, 10***	0.1 - 1
Chromium	6.2 U	17.5	1.4 B	6.7 B	4	10 or SB, 50***	1.5 - 40*
Copper	8.6 U	12.7	1.5 U	6.6 B	10	25 or SB	1 - 50
Lead	3.5 B	16.3	2.6 B	U	35	SB	200 - 500**
Mercury	0.28 B	0.13	1.0 U	U	0.2	0.1	0.001 - 0.2
Nickel	1.7 B	11.7	2.6 B	5.7 B	38	13 or SB	0.5 - 25
Selenium	11.6 B	3.3	1.0 U	3.2 B	5	2 or SB	0.1 - 3.9
Silver		2.7	U	U	7	SB	----
Thallium			8.2 U	10.6 B	5	SB	----
Zinc		31.3			12	20 or SB	9 - 50

QUALIFIERS

U: Compound analyzed for but not detected
 B: Compound concentration is less than the CRDL
 but greater than the IDL.

NOTES

----: Not established
 [shaded box]: Value exceeds NYSDEC Recommended Soil Cleanup Objectives
 SB: Site Background
 *: New York State Background
 **: Background for metropolitan or suburban areas
 ***: Proposed revisions to NYSDEC Recommended Soil Cleanup Objectives

4.1.2.1 - Volatile Organic Compounds

The results of the former paint shop soil samples analyzed for VOCs are presented in Table 4-5. Three soil samples were analyzed for VOCs. As indicated in Table 4-5, methylene chloride was detected in all of the soil samples, as well as the method blank and field blank. However, since methylene chloride is a common laboratory contaminant and it was detected in the method blank, its presence can be attributed to laboratory contamination.

In addition, acetone was detected at a concentration of 22 ug/kg in soil sample PR-A01 collected at a depth of 2-4 feet below grade (floor). However, the concentration detected was below the NYSDEC recommended soil cleanup objective of 200 ug/kg. Furthermore, although acetone was not detected in the method blank, it is a common laboratory contaminant and its presence can most probably be attributed to laboratory contamination.

4.1.2.2 - Semivolatile Organic Compounds

The results of the former paint shop soil samples analyzed for SVOCs are presented in Table 4-6. Three soil samples were analyzed for SVOCs. As indicated in Table 4-6, several SVOCs were detected in soil samples PR-A01 (0-2 feet) and PR-A02 (2-4 feet); however, all of these SVOCs were detected at levels below the NYSDEC recommended soil cleanup objectives except for benzo(a)pyrene in sample PR-A01 (0-2 feet). Benzo(a)pyrene was detected in sample PR-A01 (0-2 feet) at a concentration of 120 ug/kg, which was in excess of NYSDEC recommended soil cleanup objective of 61 ug/kg. Although this soil sample exhibited a concentration of this *individual* SVOC in excess of the soil cleanup objective, the sample did not exhibit a concentration of *total* SVOCs above the NYSDEC alternate soil cleanup objective of 500 mg/kg (500,000 ug/kg).

4.1.2.3 - Priority Pollutant Metals

The results of the former paint shop soil samples analyzed for priority pollutant metals are presented in Table 4-7. Three soil samples were analyzed for priority pollutant metals. As indicated in Table 4-7, priority pollutant metals were detected in all three samples that were collected; however, only chromium, mercury, selenium and zinc were detected in one sample at levels in excess of the NYSDEC recommended soil cleanup objectives.

In soil sample PR-A02 obtained at a depth of 2-4 feet below grade (floor), chromium, mercury, selenium and zinc were detected at concentrations of 17.5 mg/kg, 0.13 mg/kg, 3.3 mg/kg and 31.3 mg/kg, respectively, which exceeded the respective NYSDEC recommended soil cleanup objectives for these metals.

It is important to note that the existing NYSDEC recommended soil cleanup objective for chromium of 10 mg/kg was utilized for comparative purposes on Table 4-7. However, as noted on Table 4-7, the proposed revision to the NYSDEC soil cleanup objective is 50 mg/kg for chromium. If the revised NYSDEC recommended soil cleanup objective for chromium is utilized, the analytical results for chromium are not in exceedance. Furthermore, the concentration detected was not above the range of typical background levels for this metal in soils of the eastern United States.

In addition, it should be noted that although the levels of mercury, selenium and zinc were in excess of the NYSDEC recommended soil cleanup objective, these concentrations were not above the range of background levels for these metals in soils of the eastern United States.

4.1.3 Former Gasoline Tanks/Loading Area

As previously discussed in Section 3, one soil probe, GTL-A, was advanced in the former gasoline tanks/loading area to the west of Plant 114. The analytical results of the soil samples selected for laboratory analysis from the above-referenced soil probe are presented in Table 4-8. Three soil samples were analyzed for STARS Table 1 VOCs.

TABLE 4-8
 GRUMMAN AEROSPACE CORPORATION - PLANT 114
 PHASE II SITE ASSESSMENT
 FORMER GASOLINE TANKS/LOADING AREA
 SOIL SAMPLING RESULTS
 VOLATILE ORGANIC COMPOUNDS-STARS TABLE 1

SAMPLE LOCATION	GTL-A	GTL-A	GTL-A	GTL-A	NYSDEC RECOMMENDED SOIL CLEANUP OBJECTIVES (ug/kg)
SAMPLE DEPTH	10-12 FT	15-17 FT	50-52 FT		
DATE OF COLLECTION	4/23/96	4/23/96	4/23/96		
DILUTION FACTOR	1	1	1		
PERCENT SOLIDS	96	96	96		
UNITS	(ug/kg)	(ug/kg)	(ug/kg)		
Benzene	U	U	U	U	60
Ethylbenzene	U	U	U	U	5500
Toluene	0.8 J	U	U	U	1500
O - Xylene	U	U	U	U	1200
M+ P Xylene	1	U	U	U	1200
Isopropylbenzene	U	U	U	U	----
n - Propylbenzene	U	U	U	U	----
p - Isopropyltoluene	U	U	U	U	----
1,2,4 - Trimethylbenzene	1	U	U	U	----
1,3,5 - Trimethylbenzene	U	U	U	U	----
n - Butylbenzene	1.1	U	U	U	----
sec - Butylbenzene	U	4.9	U	U	----
Naphthalene	1	U	U	U	1300
Methyl Tertiary Butyl Ether	U	U	U	U	----

QUALIFIERS
 U: Compound was analyzed for but not detected
 J: Compound found at a concentration below the detection limit

NOTES
 ----: Not established

As indicated in Table 4-8, VOCs were detected in the soil samples collected at soil probe location GTL-A. Five VOCs were detected at low levels in the sample obtained at a depth of 10-12 feet, and one VOC was detected at a low concentration in the sample collected at a depth of 15-17 feet. However, the concentrations detected were below the NYSDEC recommended soil cleanup objectives for each of these compounds. There are no NYSDEC cleanup objectives for two of the compounds detected (i.e., 1,2,4-trimethylbenzene and sec-butylbenzene).

4.1.4 Former On-site Sanitary Disposal Systems

As previously discussed in Section 3, two soil probes, SDS-A and SDS-B, were advanced in the area of the former on-site sanitary disposal systems to the east of Plant 114. The analytical results of the soil samples selected for laboratory analysis (based upon visual characterization and field instrumentation screening) from the above referenced soil probes are presented on Tables 4-9 through 4-12.

4.1.4.1 - Volatile Organic Compounds

The results of the former on-site sanitary disposal systems soil samples analyzed for VOCs are presented in Table 4-9. Six soil samples were analyzed for VOCs. As indicated in Table 4-9, methylene chloride was detected in all of the soil samples, as well as the method blank. However, since methylene chloride is a common laboratory contaminant and it was detected in the method blank, its presence in the soil samples can be attributed to laboratory contamination.

In addition, acetone was detected in all the soil samples. However, the levels detected were below the NYSDEC recommended soil cleanup objective of 200 ug/kg. Furthermore, although acetone was not detected in the method blank, it is a common laboratory contaminant and its presence can most probably be attributed to laboratory contamination.

In addition, Table 4-9 indicates the presence of 1,1,2,2-tetrachloroethane and toluene in the soil samples collected at soil probe locations SDS-A and SDS-B, respectively. At soil probe

TABLE 4-9
GRUMMAN AEROSPACE CORPORATION - PLANT 114
PHASE II SITE ASSESSMENT
FORMER ON-SITE SANITARY DISPOSAL SYSTEMS
SOIL SAMPLING RESULTS
VOLATILE ORGANIC COMPOUNDS

SAMPLE LOCATION	SDS-A	SDS-A	SDS-B	SDS-B	SDS-B	SDS-B	SDS-B	CONTRACT REQUIRED DETECTION LIMITS (ug/kg)	NYSDEC RECOMMENDED SOIL CLEANUP OBJECTIVES (ug/kg)
	3-5 FT 4/24/96	23-25 FT 4/24/96	43-45 FT 4/24/96	13-15 FT 4/25/96	18-20 FT 4/25/96	51-53 FT 4/25/96	DILUTION FACTOR		
PERCENT SOLIDS	96	96	93	96	96	81			
UNITS	(ug/kg)	(ug/kg)	(ug/kg)	(ug/kg)	(ug/kg)	(ug/kg)			
Chloromethane	U	U	U	U	U	U		10	---
Bromomethane	U	U	U	U	U	U		10	---
Vinyl Chloride	U	U	U	U	U	U		10	200
Chloroethane	U	U	U	U	U	U		10	1900
Methylene Chloride	4 JB	4 JB	6 JB	4 JB	4 JB	6 JB		10	100
Acetone	23	40	26	35	22	18		10	200
Carbon Disulfide	U	U	U	U	U	U		10	2700
1,1-Dichloroethene	U	U	U	U	U	U		10	400
1,1-Dichloroethane	U	U	U	U	U	U		10	400
1,2-Dichloroethene (total)	U	U	U	U	U	U		10	300
Chloroform	U	U	U	U	U	U		10	300
1,2-Dichloroethane	U	U	U	U	U	U		10	100
2-Butanone	U	U	U	U	U	U		10	300
1,1,1-Trichloroethane	U	U	U	U	U	U		10	800
Carbon Tetrachloride	U	U	U	U	U	U		10	600
Bromodichloromethane	U	U	U	U	U	U		10	---
1,2-Dichloropropane	U	U	U	U	U	U		10	---
cis-1,3-Dichloropropene	U	U	U	U	U	U		10	---
Trichloroethene	U	U	U	U	U	U		10	700
Dibromochloromethane	U	U	U	U	U	U		10	---
1,1,2-Trichloroethane	U	U	U	U	U	U		10	---
Benzene	U	U	U	U	U	U		10	60
Trans-1,3-Dichloropropene	U	U	U	U	U	U		10	---
Bromoform	U	U	U	U	U	U		10	1000
4-Methyl-2-Pentanone	U	U	U	U	U	U		10	---
2-Hexanone	U	U	U	U	U	U		10	---
Tetrachloroethene	U	U	U	U	U	U		10	1400
1,1,2,2-Tetrachloroethane	U	U	4	U	U	22		10	600
Toluene	U	U	U	U	U	U		10	1500
Chlorobenzene	U	U	U	U	U	U		10	1700
Ethylbenzene	U	U	U	U	U	U		10	5500
Styrene	U	U	U	U	U	U		10	---
Total Xylenes	U	U	U	U	U	U		10	1200
Vinyl Acetate	U	U	U	U	U	U		10	---
TOTAL VOCs	27	44	36	39	26	46			10000

QUALIFIERS
 U: Compound analyzed for but not detected
 B: Compound found in the blank as well as the sample
 J: Compound found at a concentration below the detection limit

NOTES
 ---: Not established

location SDS-A, 1,1,2,2-tetrachloroethane was detected at an estimated concentration of 4 ug/kg in soil sample SDS-A collected at a depth of 43-45 feet below grade (ground surface). At soil probe location SDS-B, toluene was detected at a concentration of 22 ug/kg in soil sample SDS-B obtained at a depth of 51-53 feet below grade. These concentrations were below the NYSDEC recommended soil cleanup objectives for these compounds.

4.1.4.2 - Semivolatile Organic Compounds

The results of the former on-site sanitary disposal systems soil samples analyzed for SVOCs are presented in Table 4-10. Six soil samples were analyzed for SVOCs. As indicated in Table 4-10, SVOCs were not detected in the former on-site sanitary disposal systems soils samples.

4.1.4.3 - Total Petroleum Hydrocarbons and Fuel Fingerprint

The results of the former on-site sanitary disposal systems soil samples analyzed for TPHCs and fuel-related constituents are presented in Table 4-11. Six soil samples were analyzed for TPHCs and fuel fingerprint. As indicated in Table 4-11, TPHCs were detected at a concentration of 63 mg/kg in the sample obtained at SDS-A at a depth of 43-45 feet. There is no NYSDEC soil cleanup objective for TPHCs.

To determine if the TPHCs detected in SDS-A at 43 to 45 feet were attributable to fuel-related compounds, the sample was also analyzed for fuel-related constituents. The analytical results in Table 4-11 indicate that fuel-related constituents were not detected. As a result, it appears that the detected levels of TPHCs are not associated with any fuel-related discharges.

4.1.4.4 - Priority Pollutant Metals

The results of the former on-site sanitary disposal systems soil samples analyzed for priority pollutant metals are presented in Table 4-12. Six soil samples were analyzed for priority pollutant

TABLE 4-10
 GRUMMAN AEROSPACE CORPORATION - PLANT 114
 PHASE II SITE ASSESSMENT
 FORMER ON-SITE SANITARY DISPOSAL SYSTEMS
 SOIL SAMPLING RESULTS
 SEMIVOLATILE ORGANIC COMPOUNDS

SAMPLE LOCATION	SDS-A	SDS-A	SDS-A	SDS-B	SDS-B	SDS-B	SDS-B	CONTRACT REQUIRED DETECTION LIMITS	NYSDEC RECOMMENDED SOIL CLEANUP OBJECTIVES
	3-5 FT	23-25 FT	43-45 FT	13-15 FT	18-20 FT	51-53 FT	(ug/kg)		
DATE OF COLLECTION	4/24/96	4/24/96	4/24/96	4/25/96	4/25/96	4/25/96	4/25/96	(ug/kg)	(ug/kg)
DILUTION FACTOR	1	1	1	1	1	1	1		
PERCENT SOLIDS	96	96	93	96	96	81			
UNITS	(ug/kg)	(ug/kg)	(ug/kg)	(ug/kg)	(ug/kg)	(ug/kg)	(ug/kg)		(ug/kg)
Phenol	U	U	U	U	U	U	U	330	30 OR MDL
bis(2-Chloroethyl)ether	U	U	U	U	U	U	U	330	---
2-Chlorophenol	U	U	U	U	U	U	U	330	800
1,3-Dichlorobenzene	U	U	U	U	U	U	U	330	1600
1,4-Dichlorobenzene	U	U	U	U	U	U	U	330	8500
1,2-Dichlorobenzene	U	U	U	U	U	U	U	330	7900
2-Methylphenol	U	U	U	U	U	U	U	330	100 OR MDL
2,2'-oxybis(1-chloropropane)	U	U	U	U	U	U	U	330	---
4-Methylphenol	U	U	U	U	U	U	U	330	900
N-Nitroso-di-n-propylamine	U	U	U	U	U	U	U	330	---
Hexachloroethane	U	U	U	U	U	U	U	330	---
Nitrobenzene	U	U	U	U	U	U	U	330	200 OR MDL
Isophorone	U	U	U	U	U	U	U	330	4400
2-Nitrophenol	U	U	U	U	U	U	U	330	330 OR MDL
2,4-Dimethylphenol	U	U	U	U	U	U	U	330	---
bis(2-Chloroethoxy)methane	U	U	U	U	U	U	U	330	400
2,4-Dichlorophenol	U	U	U	U	U	U	U	330	3400
1,2,4-Trichlorobenzene	U	U	U	U	U	U	U	330	13000
Naphthalene	U	U	U	U	U	U	U	330	220 OR MDL
4-Chloroaniline	U	U	U	U	U	U	U	330	---
Hexachlorobutadiene	U	U	U	U	U	U	U	330	---
4-Chloro-3-methylphenol	U	U	U	U	U	U	U	330	240 OR MDL
2-Methylnaphthalene	U	U	U	U	U	U	U	330	36400
Hexachlorocyclopentadiene	U	U	U	U	U	U	U	330	---
2,4,6-Trichlorophenol	U	U	U	U	U	U	U	330	---
2,4,5-Trichlorophenol	U	U	U	U	U	U	U	800	100
2-Chloronaphthalene	U	U	U	U	U	U	U	330	---
2-Nitroaniline	U	U	U	U	U	U	U	800	430 OR MDL
Dimethylphthalate	U	U	U	U	U	U	U	330	2000
Acenaphthylene	U	U	U	U	U	U	U	330	41000
2,6-Dinitrotoluene	U	U	U	U	U	U	U	330	1000
3-Nitroaniline	U	U	U	U	U	U	U	800	500 OR MDL
Acenaphthene	U	U	U	U	U	U	U	330	50000
2,4-Dinitrophenol	U	U	U	U	U	U	U	800	200 OR MDL
4-Nitrophenol	U	U	U	U	U	U	U	800	100 OR MDL

TABLE 4-10
 GRUMMAN AEROSPACE CORPORATION - PLANT 114
 PHASE II SITE ASSESSMENT
 FORMER ON-SITE SANITARY DISPOSAL SYSTEMS
 SOIL SAMPLING RESULTS
 SEMIVOLATILE ORGANIC COMPOUNDS

SAMPLE LOCATION	SDS-A		SDS-B		SDS-A		SDS-B		SDS-B		CONTRACT REQUIRED DETECTION LIMITS	NYSDEC RECOMMENDED SOIL CLEANUP OBJECTIVES (ug/kg)
	3-5 FT 4/24/96	23-25 FT 4/24/96	43-45 FT 4/24/96	13-15 FT 4/25/96	18-20 FT 4/25/96	51-53 FT 4/25/96	(ug/kg)	(ug/kg)	(ug/kg)	(ug/kg)		
DILUTION FACTOR	1	1	1	1	1	1						
PERCENT SOLIDS	96	96	93	96	96	81						
UNITS	(ug/kg)	(ug/kg)	(ug/kg)	(ug/kg)	(ug/kg)	(ug/kg)						
Dibenzofuran	U	U	U	U	U	U					330	6200
2,4-Dinitrotoluene	U	U	U	U	U	U					330	---
Diethylphthalate	U	U	U	U	U	U					330	7100
4-Chlorophenyl-phenylether	U	U	U	U	U	U					330	---
Fluorene	U	U	U	U	U	U					330	50000
4-Nitroaniline	U	U	U	U	U	U					800	---
4,6-Dinitro-2-methylphenol	U	U	U	U	U	U					800	---
N-Nitrosodiphenylamine	U	U	U	U	U	U					330	---
4-Bromophenyl-phenylether	U	U	U	U	U	U					330	---
Hexachlorobenzene	U	U	U	U	U	U					330	410
Pentachlorophenol	U	U	U	U	U	U					800	1000 OR MDL
Phenanthrene	U	U	U	U	U	U					330	50000
Anthracene	U	U	U	U	U	U					330	50000
Carbazole	U	U	U	U	U	U					330	---
Di-n-butylphthalate	U	U	U	U	U	U					330	8100
Fluoranthene	U	U	U	U	U	U					330	50000
Pyrene	U	U	U	U	U	U					330	50000
Butylbenzylphthalate	U	U	U	U	U	U					330	50000
3-3'-Dichlorobenzidine	U	U	U	U	U	U					330	50000
Benzo (a) anthracene	U	U	U	U	U	U					330	50000
Chrysene	U	U	U	U	U	U					330	---
bis(2-Ethylhexyl)phthalate	U	U	U	U	U	U					330	224 OR MDL
Di-n-octylphthalate	U	U	U	U	U	U					330	400
Benzo(k)fluoranthene	U	U	U	U	U	U					330	50000
Benzo(a)pyrene	U	U	U	U	U	U					330	50000
Indeno(1,2,3-cd)pyrene	U	U	U	U	U	U					330	1100
Dibenz(a,h)anthracene	U	U	U	U	U	U					330	1100
Benzo(g,h,i)perylene	U	U	U	U	U	U					330	61 OR MDL
TOTAL PAHs	0	0	0	0	0	0						3200
TOTAL CARCINOGEN PAHs	0	0	0	0	0	0						14 OR MDL
TOTAL SVOCs	0	0	0	0	0	0						50000

QUALIFIERS
 U: Compound analyzed for but not detected
 NOTES
 ---: Not established

TABLE 4-11
 GRUMMAN AEROSPACE CORPORATION - PLANT 114
 PHASE II SITE ASSESSMENT
 FORMER ON-SITE SANITARY DISPOSAL SYSTEMS
 SOIL SAMPLING RESULTS
 TOTAL PETROLEUM HYDROCARBONS AND FUEL FINGERPRINT

SAMPLE LOCATION	SDS-A	SDS-A	SDS-A	SDS-A	SDS-B	SDS-B	SDS-B	SDS-B
SAMPLE DEPTH	3-5 FT	23-25 FT	43-45 FT	13-15 FT	18-20 FT	51-53 FT		
DATE OF COLLECTION	4/24/96	4/24/96	4/24/96	4/25/96	4/25/96	4/25/96		
PERCENT SOLIDS	96	96	93	96	96	81		
DILUTION FACTOR	1.0	1.0	1.0	1.0	1.0	1.0		
UNITS	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)		
Total Petroleum Hydrocarbons	U	U	63	U	U	U		U
Gasoline	U	U		U	U	U		U
TPH (as Gasoline)	U	U		U	U	U		U
Kerosene	U	U		U	U	U		U
TPH (as Kerosene)	U	U		U	U	U		U
#2 Fuel Oil	U	U		U	U	U		U
TPH(as #2 Fuel Oil)	U	U		U	U	U		U
#6 Fuel Oil	U	U		U	U	U		U
TPH(as #6 Fuel Oil)	U	U		U	U	U		U
Lubricating Oil	U	U		U	U	U		U
TPH (as Lubricating Oil)	U	U		U	U	U		U
TPH(as 10W40 Motor Oil)	U	U		U	U	U		U

QUALIFIERS
 U: Compound analyzed for but not detected

TABLE 4-12
 GRUMMAN AEROSPACE CORPORATION - PLANT 114
 PHASE II SITE ASSESSMENT
 FORMER ON-SITE SANITARY DISPOSAL SYSTEMS
 SOIL SAMPLING RESULTS
 PRIORITY POLLUTANT METALS

SAMPLE LOCATION	SDS-A	SDS-A	SDS-A	SDS-B	SDS-B	SDS-B	SDS-B	INSTRUMENT DETECTION LIMITS (ug/l)	NYSDEC RECOMMENDED SOIL CLEANUP OBJECTIVES (mg/kg)	EASTERN USA BACKGROUND (mg/kg)
	3-5 FT 4/24/96 96 1.0	23-25 FT 4/24/96 96 1.0	43-45 FT 4/24/96 93 1.0	13-15 FT 4/25/96 96 1.0	18-20 FT 4/25/96 96 1.0	51-53 FT 4/25/96 81 1.0				
Antimony	1.5 B	U	U	U	U	U	U	31	SB	---
Arsenic	32.3	1.5 B	1.6 B	U	0.66 B	8.3	U	5	7.5 or SB	3 - 12*
Beryllium	0.51 B	0.09 B	0.06 B	0.05 B	0.04 B	0.1 B	0.1 B	4	0.16 or SB	0 - 1.75
Cadmium	U	U	U	U	U	U	U	2	1 or SB, 10***	0.1 - 1
Chromium	9.9	6.3	0.98 B	2.1	1.8 B	3.9	3.9	4	10 or SB, 50***	1.5 - 40*
Copper	87.7	2.7 B	2.8 B	29.1	25.4	28.6	28.6	10	25 or SB	1 - 50
Lead	169	1.6	2.6	5	4.6	2.1	2.1	35	SB	200 - 500**
Mercury	0.14	U	0.31	0.14	U	U	U	0.2	0.1	0.001 - 0.2
Nickel	19.4	B	U	0.48 B	0.77 B	1.1 B	1.1 B	38	13 or SB	0.5 - 25
Selenium	4.8	U	U	U	U	U	U	5	2 or SB	0.1 - 3.9
Silver	U	U	0.21 B	U	U	U	U	7	SB	---
Thallium	10.5	1.5 B	1.4 B	U	0.75 B	U	U	5	SB	---
Zinc	165	8.6	7.1	9.9	9.6	11	11	12	20 or SB	9 - 50

QUALIFIERS

U: Compound analyzed for but not detected
 B: Compound concentration is less than the CRDL but greater than the IDL.

NOTES

---: Not established
 ---: Value exceeds NYSDEC Recommended Soil Cleanup Objectives
 SB: Site Background
 *: New York State Background
 **: Background for metropolitan or suburban areas
 ***: Proposed revisions to NYSDEC Recommended Soil Cleanup Objectives

metals. As indicated in Table 4-12, priority pollutant metals were detected in all six samples analyzed.

The following list identifies those metals that were detected in the soil samples at levels above the NYSDEC recommended soil cleanup objectives and those that exceeded eastern USA background levels:

Soil Samples	Metals Exceeding NYSDEC Cleanup Objectives	Metals Exceeding Eastern USA Background Levels
SDS-A (3-5 feet)	arsenic, beryllium, copper, mercury, nickel, selenium and zinc	arsenic, copper, selenium and zinc
SDS-A (43-45 feet)	mercury	mercury
SDS-B (13-15 feet)	copper and mercury	none
SDS-B (18-20 feet)	copper	none
SDS-B (51-53 feet)	arsenic and copper	none

It should be noted that although the levels of beryllium, mercury and nickel in sample SDS-A (3-5 feet), copper and mercury in sample SDS-B (13-15), copper in sample SDS-B (18-20 feet) and arsenic and copper in sample SDS-B (51-53 feet) were in excess of the NYSDEC recommended soil cleanup objectives, these concentrations were not above the range of background levels for these metals in soils of the eastern United States.

4.2 Groundwater Sampling Program

As previously discussed in Section 3, one groundwater sample was collected from each monitoring well and analyzed for VOCs (Method 8240), SVOCs (Method 8270) and priority pollutant metals (Method 6010). The analytical results for the groundwater samples are presented on Tables 4-13 through 4-15.

TABLE 4-13
GRUMMAN AEROSPACE CORPORATION- PLANT 114
PHASE II SITE ASSESSMENT
GROUNDWATER SAMPLING RESULTS
VOLATILE ORGANIC COMPOUNDS

SAMPLE IDENTIFICATION	MW-101	MW-102	S10MW1	FB	TB	CONTRACT REQUIRED DETECTION LIMIT (ug/l)	NYSDEC CLASS GA GROUNDWATER STANDARDS/ GUIDANCE VALUES (ug/l)
	5/6/96	5/6/96	5/6/96	5/6/96	5/6/96		
DATE OF COLLECTION							
DILUTION FACTOR	1	1	1	1	1		
UNITS	(ug/l)	(ug/l)	(ug/l)	(ug/l)	(ug/l)		
Chloromethane	U	U	U	U	U	10	5 ST
Bromomethane	U	U	U	U	U	10	5 ST
Vinyl Chloride	U	U	U	U	U	10	2 ST
Chloroethane	U	U	U	U	U	10	5 ST
Methylene Chloride	J	J	J	J	J	10	5 ST
Acetone	U	U	U	U	U	10	50 GV
Carbon Disulfide	U	U	U	U	U	10	---
1,1-Dichloroethene	J	U	U	U	U	10	5 ST
1,1-Dichloroethane	J	U	U	U	U	10	5 ST
1,2-Dichloroethene (total)	J	U	U	U	U	10	7 ST
Chloroform	U	U	U	U	U	10	5 ST
1,2-Dichloroethane	U	U	U	U	U	10	50 GV
2-Butanone	U	U	U	U	U	10	5 ST
1,1,1-Trichloroethane	J	U	U	U	U	10	5 ST
Carbon Tetrachloride	U	U	U	U	U	10	50 GV
Bromodichloromethane	U	U	U	U	U	10	5 ST
1,2-Dichloropropane	U	U	U	U	U	10	5 ST
cis-1,3-Dichloropropene	U	U	U	U	U	10	5 ST
Trichloroethene	U	U	U	U	U	10	50 GV
Dibromochloromethane	U	1	1	U	U	10	50 GV
1,1,2-Trichloroethane	U	U	U	U	U	10	5 ST
Benzene	U	U	U	U	U	10	5 ST
trans-1,3-Dichloropropene	U	U	U	U	U	10	0.7 ST
Bromoform	U	U	U	U	U	10	5 ST
4-Methyl-2-Pentanone	U	U	U	U	U	10	50 GV
2-Hexanone	U	U	U	U	U	10	---
Tetrachloroethene	U	U	U	U	U	10	50 GV
1,1,2,2-Tetrachloroethane	U	U	U	U	U	10	5 ST
Toluene	U	U	U	U	U	10	5 ST
Chlorobenzene	U	U	U	U	U	10	5 ST
Ethylbenzene	U	U	U	U	U	10	5 ST
Styrene	U	U	U	U	U	10	5 ST
Xylene (total)	U	U	U	U	U	10	5 ST*
Vinyl Acetate	U	U	U	U	U	10	5 ST
Total VOCs	33	4	5	3	3		

QUALIFIERS
 U: Compound analyzed for but not detected
 J: Compound found at a concentration below the detection limit, value estimated
 NOTES
 ST: Standard
 GV: Guidance Value
 ---: Not established
 * : Value exceeds NYSDEC Class GA Standard/Guidance Value
 *: Applies to each isomer individually

TABLE 4-14
 GRUMMAN AEROSPACE CORPORATION - PLANT 114
 PHASE II SITE ASSESSMENT
 GROUNDWATER SAMPLING RESULTS
 VOLATILE ORGANIC COMPOUNDS - STARS TABLE 1

SAMPLE IDENTIFICATION	MW-101	S10MW1	FB	TB	NYSDEC CLASS GA GROUNDWATER STANDARDS/ GUIDANCE VALUES (ug/l)
	5/6/96	5/6/96	5/6/96	5/6/96	
DATE OF COLLECTION	1	1	1	1	
DILUTION FACTOR	(ug/l)	(ug/l)	(ug/l)	(ug/l)	
UNITS					
Benzene	U	U	U	U	0.7 ST
Ethylbenzene	U	U	U	U	5 ST
Toluene	U	U	U	U	5 ST
o-Xylene	U	U	U	U	5 ST
m&p-Xylene	U	U	U	U	5 ST*
Isopropylbenzene	U	U	U	U	5 ST
n-Propylbenzene	U	U	U	U	---
p-Isopropyltoluene	U	U	U	U	5 ST
1,2,4-Trimethylbenzene	U	U	U	U	5 ST*
1,3,5-Trimethylbenzene	U	U	U	U	5 ST*
n-Butylbenzene	U	U	U	U	5 ST
sec-Butylbenzene	U	U	U	U	5 ST
Naphthalene	U	U	U	U	10 GV
Methyl Tertiary Butyl Ether	U	U	U	U	---

QUALIFIERS

U: Compound analyzed for but not detected

NOTES

GV: Guidance Value

ST: Standard

*: Applies to each isomer individually

---: Not established

TABLE 4-15
GRUMMAN AEROSPACE CORPORATION - PLANT 114
PHASE II SITE ASSESSMENT
GROUNDWATER SAMPLING RESULTS
SEMIVOLATILE ORGANIC COMPOUNDS

SAMPLE IDENTIFICATION DATE OF COLLECTION DILUTION FACTOR UNITS	MW-101	MW-102	S10MW1	FB	CONTRACT REQUIRED DETECTION LIMITS (ug/l)	NYSDEC CLASS GA GROUNDWATER STANDARDS/ GUIDANCE VALUES (ug/l)
	5/6/96 1 (ug/l)	5/6/96 1 (ug/l)	5/6/96 1 (ug/l)	5/6/96 1 (ug/l)		
Phenol	U	U	U	U	10	1 ST **
bis(2-Chloroethyl)Ether	U	U	U	U	10	1.0 ST
2-Chlorophenol	U	U	U	U	10	1.0 ST**
1,3-Dichlorobenzene	U	U	U	U	10	5 ST
1,4-Dichlorobenzene	U	U	U	U	10	4.7 ST *
1,2-Dichlorobenzene	U	U	U	U	10	4.7 ST *
2-Methylphenol	U	U	U	U	10	---
2,2'-oxybis(1-Chloropropane)	U	U	U	U	10	---
4-Methylphenol	U	U	U	U	10	---
N-Nitroso-di-n-propylamine	U	U	U	U	10	---
Hexachloroethane	U	U	U	U	10	5 ST
Nitrobenzene	U	U	U	U	10	5 ST
Isophorone	U	U	U	U	10	50 GV
2-Nitrophenol	U	U	U	U	10	---
2,4-Dimethylphenol	U	U	U	U	10	1 ST **
2,4-Dichlorophenol	U	U	U	U	10	5 ST
1,2,4-Trichlorobenzene	U	U	U	U	10	10 GV
Naphthalene	U	U	U	U	10	5 ST
4-Chloroaniline	U	U	U	U	10	5 ST
Hexachlorobutadiene	U	U	U	U	10	5 ST
bis(2-Chloroethoxy)methane	U	U	U	U	10	5 ST
4-Chloro-3-Methylphenol	U	U	U	U	10	1 ST **
2-Methylnaphthalene	U	U	U	U	10	---
Hexachlorocyclopentadiene	U	U	U	U	10	5 ST
2,4,6-Trichlorophenol	U	U	U	U	10	1 ST **
2,4,5-Trichlorophenol	U	U	U	U	25	5 ST
2-Chloronaphthalene	U	U	U	U	10	5 ST
2-Nitroaniline	U	U	U	U	10	50 GV
Dimethylphthalate	U	U	U	U	10	---
Acenaphthylene	U	U	U	U	10	5 ST
2,6-Dinitrotoluene	U	U	U	U	10	5 ST
3-Nitroaniline	U	U	U	U	25	5 ST
Acenaphthene	U	U	U	U	10	20 GV

TABLE 4-15
GRUMMAN AEROSPACE CORPORATION - PLANT 114
PHASE II SITE ASSESSMENT
GROUNDWATER SAMPLING RESULTS
SEMIVOLATILE ORGANIC COMPOUNDS

SAMPLE IDENTIFICATION	MW-101	MW-102	S10MW1	FB	NYSDEC CLASS GA
DATE OF COLLECTION	5/6/96	5/6/96	5/6/96	5/6/96	GROUNDWATER
DILUTION FACTOR	1	1	1	1	STANDARDS/ GUIDANCE VALUES
UNITS	(ug/l)	(ug/l)	(ug/l)	(ug/l)	(ug/l)
2,4-Dinitrophenol	U	U	U	U	---
4-Nitrophenol	U	U	U	U	---
Dibenzofuran	U	U	U	U	---
2,4-Dinitrotoluene	U	U	U	U	5 ST
Diethylphthalate	U	U	U	U	50 GV
4-Chlorophenyl-phenylether	U	U	U	U	---
Fluorene	U	U	U	U	50 GV
4-Nitroaniline	U	U	U	U	5 ST
4,6-Dinitro-2-methylphenol	U	U	U	U	---
N-Nitrosodiphenylamine	U	U	U	U	50 GV
4-Bromophenyl-phenylether	U	U	U	U	---
Hexachlorobenzene	U	U	U	U	0.35 ST
Pentachlorophenol	U	U	U	U	1 ST **
Phenanthrene	U	U	U	U	50 GV
Anthracene	U	U	U	U	50 GV
Carbazole	U	U	U	U	---
Di-n-butylphthalate	U	U	U	U	50 ST
Fluoranthene	U	U	U	U	50 GV
Pyrene	U	U	U	U	50 GV
Butylbenzylphthalate	U	U	U	U	50 GV
3,3'-Dichlorobenzidine	U	U	U	U	5 ST
Benzo(a)anthracene	U	U	U	U	0.002 GV
Chrysene	U	U	U	U	0.002 GV
bis(2-Ethylhexyl)phthalate	U	U	U	U	50 ST
Di-n-octylphthalate	U	U	U	U	50 GV
Benzo(b)fluoranthene	U	U	U	U	0.002 GV
Benzo(k)fluoranthene	U	U	U	U	0.002 GV
Benzo(a)pyrene	U	U	U	U	ND ST
Indeno(1,2,3-cd)pyrene	U	U	U	U	0.002 GV
Dibenz(a,h)anthracene	U	U	U	U	---
Benzo(g,h,i)perylene	U	U	U	U	---
Benzyl Alcohol	U	U	U	U	---
Benzoic Acid	U	U	U	U	---

NOTES
ST: Standard
GV: Guidance Value
ND: Non-detected
---: Not established
*: Value pertains to the sum of the isomers
**: Value pertains to total phenols

QUALIFIERS
U: Compound analyzed for but not detected

TABLE 4-16
GRUMMAN ARROSPACE CORPORATION - PLANT 114
PHASE II SITE ASSESSMENT
GROUNDWATER SAMPLING RESULTS
PRIORITY POLLUTANT METALS

SAMPLE IDENTIFICATION DATE OF COLLECTION	MW-101	MW-101F	MW-102	MW-102F	S10MW1	S10MW1F	FB	FBF	INSTRUMENT DETECTION LIMITS	NYSDEC CLASS GA GROUNDWATER STANDARDS/ GUIDANCE VALUES
	5/6/96	5/6/96	5/6/96	5/6/96	5/6/96	5/6/96	5/6/96	5/6/96		
DILUTION FACTOR	1	1	1	1	1	1	1	1	(ug/l)	(ug/l)
UNITS	(ug/l)	(ug/l)	(ug/l)	(ug/l)	(ug/l)	(ug/l)	(ug/l)	(ug/l)	(ug/l)	(ug/l)
Antimony	17.4 B	U	U	U	U	U	U	U	31	3 GV
Arsenic	223	61.7	U	U	85.4	U	U	U	5	25 ST
Beryllium	6.6	3.1 B	0.28 B	0.28 B	2.7 B	0.43 B	0.27 B	0.24 B	4	3 GV
Cadmium	U	3.4 B	1.1 B	1.1 B	U	0.79 B	U	U	2	10 ST
Chromium	763	68.6	U	U	34.9	U	U	U	4	50 ST
Copper	2.8	162	89.9	89.9	85.2	4 B	U	U	10	200 ST
Lead	1.0	93.7	3.5	3.5	48.4	1.7 B	2.6 B	U	35	25 ST
Mercury	0.39	0.32	U	U	2	U	U	U	0	2 ST
Nickel	65.2	33 B	6.2 B	6.2 B	15 B	7.3 B	U	U	38	---
Selenium	10.3	4.8 B	U	U	U	U	U	U	5	10 ST
Silver	U	U	U	U	U	U	U	U	7	50 ST
Thallium	24	10.7	U	U	11.9	3 B	U	U	5	4 GV
Zinc	193	153	23.2	23.2	148	78.5	5.5 B	16.8 B	12	300 ST

QUALIFIERS

U: Analyzed for but not detected
B: Concentration is less than the CRDL but greater than the IDL.
F: Sample was filtered in the laboratory, results are for dissolved metals

NOTES

GV: Guidance Value
ST: Standard
---: Value exceeds NYSDEC Class GA Standard/Guidance Value
---: Not established

4.2.1 Volatile Organic Compounds

The results of the groundwater samples analyzed for VOCs are presented in Table 4-13. Three groundwater samples were analyzed for VOCs. As indicated in Table 4-13, methylene chloride was detected in each of the groundwater samples. However, since methylene chloride is a common laboratory contaminant and the compound was detected in the field and trip blanks, its presence in the groundwater samples can most probably be attributed to laboratory contamination.

Trichloroethene was the only other VOC detected in groundwater samples collected from downgradient monitoring wells MW-102 and S10MW-1. However, the concentration detected in both samples, 1 ug/l, did not exceed the NYSDEC Class GA groundwater standard for this compound of 5 ug/l.

The groundwater sample from upgradient monitoring well MW-101 contained estimated concentrations of 1,1-dichloroethene, 1,1-dichloroethane, 1,2-dichloroethene (total) and 1,1,1-trichloroethane. However, the concentrations of these compounds detected in this sample did not exceed the NYSDEC Class GA groundwater standards.

In addition, trichloroethene and tetrachloroethene were detected in the groundwater sample from upgradient well MW-101 at concentrations of 16 ug/l and 6 ug/l, respectively. Both of these concentrations are above the NYSDEC Class GA groundwater standard for these compounds of 5 ug/l.

Since MW-101 is upgradient of Plant 114, the elevated concentrations of these VOCs can be attributed to off-site contamination, possibly from the Ruco Polymer facility which has a documented plume of contaminated groundwater containing VOCs.

4.2.2 STARS Table 1 Compounds

The results of the groundwater samples analyzed for the STARS Table 1 compounds are presented in Table 4-14. Three groundwater samples were analyzed for STARS Table 1 compounds. As indicated in Table 4-14, none of the VOCs listed in STARS Table 1 were detected in the groundwater samples. These results, in combination with the results of samples analyzed for VOCs and SVOCs described in Section 4.2.1, indicate that the groundwater contamination beneath the site is not due to a gasoline (or other petroleum hydrocarbon fuel) release.

4.2.3 Semivolatile Organic Compounds

The results for of the groundwater samples analyzed for SVOCs are presented in Table 4-15. Three groundwater samples were analyzed for SVOCs. As indicated in Table 4-15, SVOCs were not detected in the groundwater samples.

4.2.4 Priority Pollutant Metals

The results of the groundwater samples analyzed for priority pollutant metals are presented in Table 4-16. Three groundwater samples were analyzed for priority pollutant metals. As indicated in Table 4-16, the following priority pollutant metals were detected in the corresponding unfiltered groundwater samples at concentrations above the NYSDEC Class GA groundwater standards/guidance values:

<u>Groundwater Sample</u>	<u>Priority Pollutant Metal</u>
MW-101	antimony, arsenic, beryllium, chromium, copper, lead, selenium and thallium
MW-102	arsenic, beryllium, chromium, lead and thallium
S10MW1	arsenic, lead and thallium

In addition, mercury was found in the groundwater sample from S10MW1 at a level, 2 ug/l, that was the same as the NYSDEC Class GA groundwater standard for this metal.

Table 4-16 also presents the results of the filtered groundwater samples analyzed for priority pollutant metals. The filtered samples are identified as MW-101F, MW-102F and S10MW1F. As indicated on Table 4-16, the analytical results for the priority pollutant metals for the filtered groundwater samples do not exceed the NYSDEC Class GA groundwater standards/guidance values. Therefore, it appears that the elevated concentrations of metals found in the samples from the wells are attributable to the presence of high total suspended solids and are not indicative of groundwater quality.

4.3 Hydraulic Oil Underground Storage Tank Excavation and Removal

As previously discussed, one bottom and two composite sidewall endpoint soil samples were collected for analysis from the excavation for the hydraulic oil UST and lift immediately adjacent to the UST. Also, one bottom and one composite endpoint soil sample were obtained for analysis from the excavation for the western hydraulic lift. All five soil samples were analyzed for the STARS Table 2 compounds.

The results of the endpoint soil samples analyzed for STARS Table 2 compounds are presented on Table 4-17. As indicated in Table 4-17, none of the STARS Table 2 compounds were detected in the endpoint soil samples, except for phenanthrene. Phenanthrene was detected at an estimated level of 39 ug/kg in soil sample USTONW (3 to 5 feet). However, this concentration was well below the NYSDEC recommended soil cleanup objective of 50,000 ug/kg.

4.4 Data Validation

Fifteen soil samples and three groundwater samples, as well as two field blanks and one trip blank were collected during the field investigation for the Phase II Site Assessment at Plant 114. Both the water and soil samples were analyzed for volatile organics, semivolatile organics and

TABLE 4-17
 GRUMMAN AEROSPACE CORPORATION - PLANT 114
 PHASE II SITE ASSESSMENT
 HYDRAULIC OIL UST / LIFT AREA
 ENDPOINT SOIL SAMPLING RESULTS
 STARS TABLE 2 COMPOUNDS

SAMPLE LOCATION	USTHOB	USTOSE	USTONW	USTLB	USTLCS	CONTRACT REQUIRED DETECTION LIMIT	NYSDEC RECOMMENDED SOIL CLEANUP OBJECTIVE
SAMPLE DEPTH	6-7 FT	3-5 FT	3-5 FT	8-9 FT	4-5 FT	(ug/kg)	(ug/kg)
DATE OF COLLECTION	6/24/96	6/24/96	6/24/96	6/24/96	6/24/96		
DILUTION FACTOR (voc/svoc)	1/1	1/1	1/1	1/1	1/1		
PERCENT SOLIDS	97	94	95	93	91		
	(ug/kg)	(ug/kg)	(ug/kg)	(ug/kg)	(ug/kg)		
<u>VOLATILE ORGANICS</u>							
Benzene	U	U	U	U	U	10	60
Ethylbenzene	U	U	U	U	U	10	5500
Toluene	U	U	U	U	U	10	1500
o-Xylene	U	U	U	U	U	10	1200*
m&p Xylene	U	U	U	U	U	10	1200*
Isopropylbenzene	U	U	U	U	U	10	---
n-Propylbenzene	U	U	U	U	U	10	---
p-Isopropyltoluene	U	U	U	U	U	10	---
1,2,4-Trimethylbenzene	U	U	U	U	U	10	---
1,3,5-Trimethylbenzene	U	U	U	U	U	10	---
n-Butylbenzene	U	U	U	U	U	10	---
sec-Butylbenzene	U	U	U	U	U	10	---
tert-Butylbenzene	U	U	U	U	U	10	---
Naphthalene	U	U	U	U	U	10	13000
<u>SEMIVOLATILE ORGANICS</u>							
Acenaphthene	U	U	U	U	U	330	50000
Fluorene	U	U	U	U	U	330	50000
Phenanthrene	U	U	J	U	U	330	50000
Anthracene	U	U	39	U	U	330	50000
Fluoranthene	U	U	U	U	U	330	50000
Pyrene	U	U	U	U	U	330	50000
Benzo (a) anthracene	U	U	U	U	U	330	224 OR MDL
Chrysene	U	U	U	U	U	330	400
Benzo(b)fluoranthene	U	U	U	U	U	330	1100
Benzo(k)fluoranthene	U	U	U	U	U	330	1100
Benzo(a)pyrene	U	U	U	U	U	330	61 OR MDL
Indeno(1,2,3-cd)pyrene	U	U	U	U	U	330	3200
Dibenz(a,h)anthracene	U	U	U	U	U	330	14 OR MDL
Benzo(g,h,i)perylene	U	U	U	U	U	330	50000

NOTES
 ---: Not established
 (voc/svoc): Volatiles/Semivolatiles
 *: Value applies to Total Xylenes
 MDL: Method Detection Limit

QUALIFIERS
 U: Compound analyzed for but not detected
 J: Compound found at a concentration below the detection limit

priority pollutant metals utilizing USEPA SW846 Method 8240, 8270 and 6010, respectively. The analyses were performed by Nytest Environmental, Inc., a subcontractor of Dvirka and Bartilucci Consulting Engineers.

The laboratory data is included in Appendix H. The data packages were validated in accordance with NYSDEC Quality Assurance/Quality Control (QA/QC) requirements. All standard and QC data as well as 20% of the sample results were reviewed yielding a “20% Validation.” All sample results are deemed valid and usable for environmental assessment.

Section 5



5.0 CONCLUSIONS AND RECOMMENDATIONS

Based on the findings of the Phase II Site Assessment field program identified in Section 4, the conclusions of the Phase II Site Assessment are presented in this section, and recommendations are provided regarding further investigatory activities and remedial action, if necessary, at the site.

5.1 Soil Sampling Program

Former Maintenance Bay

As indicated in Section 4.1, the soil samples obtained from the former maintenance bay soil probe did not exhibit elevated concentrations of VOCs, SVOCs or priority pollutant metals that exceeded the NYSDEC recommended soil cleanup objectives and/or published typical eastern USA background levels. Therefore, further investigatory activities in this area do not appear to be warranted.

Former Paint Shop

As indicated in Section 4.1, the soil samples obtained from the former paint shop soil probe did not exhibit elevated concentrations of VOCs or priority pollutant metals that exceeded the NYSDEC recommended soil cleanup objectives and/or published typical eastern USA background levels.

With regard to SVOCs, benzo(a)pyrene was detected at a level that exceeded the *individual* NYSDEC recommended soil cleanup objective in the sample collected at 0 to 2 feet below the floor of the paint room. However, this compound was detected at a concentration that was below the *individual* soil cleanup objective in the sample collected at 2 to 4 feet below the floor. Furthermore, although the soil sample at 0 to 2 feet exhibited a concentration of an *individual* SVOC constituent in excess of the respective NYSDEC recommended soil cleanup

objective, the sample did not exhibit a concentration of *total* SVOCs above the NYSDEC alternate soil cleanup objective of 500 mg/kg (500,000 ug/kg) for *total* SVOCs. Therefore, further investigatory activities in this area do not appear to be warranted.

Former Gasoline Tanks/Loading Area

As indicated in Section 4.1, the soil samples obtained from the former gasoline tanks/loading area soil probe, did not exhibit elevated concentrations of STARS Table 1 compounds that exceeded the NYSDEC recommended soil cleanup objectives. Therefore, further investigatory activities in this area do not appear to be warranted.

Former On-Site Sanitary Disposal Systems

As indicated in Section 4.1, the soil samples obtained from soil probe SDS-A, installed at the location of one of the former on-site sanitary disposal system leaching pools, did not exhibit elevated concentrations of VOCs or SVOCs that exceeded the NYSDEC recommended soil cleanup objectives. The soil samples collected from soil probe SDS-B, installed at the location of the other leaching pool, did not exhibit elevated concentrations of VOCs or SVOCs that exceeded the NYSDEC recommended soil cleanup objectives. Although three metals were detected in the samples from SDS-B at concentrations slightly above the soil cleanup objectives, these levels did not exceed the published typical eastern USA background levels.

The soil samples collected from soil probe SDS-A at a depth of 3 to 5 feet below grade contained levels of arsenic, copper, selenium and zinc that exceeded the NYSDEC recommended soil cleanup objectives and published typical eastern USA background levels for these metals. However, none of the priority pollutant metals found in the sample from SDS-A collected at a depth of 23 to 25 feet were detected at levels that exceeded the NYSDEC recommended soil cleanup objectives. As a result, it appears that the elevated concentrations of metals are limited in depth. It is important to note that this boring was located in an area that appeared to have been previously excavated and repaved, possibly during the closure of the leaching pool and

connection of the sanitary line to the Nassau County sewer system. Thus, it does not appear that the sample collected at 3 to 5 feet is representative of soil at the leaching pool.

With regard to the elevated level of mercury in the sample from SDS-A at a depth of 43 to 45 feet, it appears that the presence of this metal is isolated and is not attributable to past discharges to the leaching pool since the sample obtained at a depth of 23 to 25 feet did not contain elevated concentrations of priority pollutant metals and mercury was not detected. Since mercury was not detected at a depth of 23 to 25 feet and the presence of mercury at 43 to 45 feet appears to be suspect, no further investigation of the soil at this depth is warranted.

Therefore, it is recommended that a soil boring be advanced immediately adjacent to SDS-A in order to confirm the presence of metals at a depth of 3 to 5 feet, as well as to determine the vertical extent of the impacted soil. Soil samples should be obtained for laboratory analysis from depths of 3 to 5 feet and 5 to 7 feet below grade. Also, soil samples should be collected for laboratory analysis at the depth of the assumed invert of the bottom of the former leaching pool at this location, as originally intended. The depth of the leaching pool invert is assumed to be 13 to 15 feet below grade. The boring should be advanced to a depth of 15 feet below grade with soil samples obtained at depths of 3 to 5 feet, 5 to 7 feet and 13 to 15 feet below grade. All three soil samples should be analyzed for priority pollutant metals (Method 6010), and the sample from 13 to 15 feet should also be analyzed for VOCs (Method 8240) and SVOCs (Method 8270).

In addition, the horizontal and vertical extent of the impacted soil immediately surrounding location SDS-A should be determined. Therefore, it is recommended that four additional borings be advanced approximately 5 feet north, south, east and west of sample location SDS-A to depths of 3 to 5 feet and 5 to 7 feet below grade. These eight soil samples should be analyzed for priority pollutant metals (Method 6010).

5.2 Groundwater Sampling Program

Based upon the analytical results of the groundwater samples presented in Section 4.2, several metals were detected in unfiltered groundwater samples obtained from monitoring wells MW-101, MW-102 and S10MW-1 at levels that were in excess of the NYSDEC Class GA groundwater standards and guidance values. However, since the groundwater from these wells was highly turbid, additional groundwater samples were obtained from the monitoring wells and the samples were filtered to remove soil particles prior to laboratory analysis. The analytical results of the filtered samples indicated that none of the metals were detected above the NYSDEC groundwater standards and guidance values. Therefore, it appears that the elevated concentrations of metals found in the samples from the monitoring wells are attributable to the presence of high total suspended solids and are not indicative of groundwater quality. As a result, it can be concluded that metals were not detected in concentrations that were above the groundwater standards and guidance values.

There were no STARS Table 1 compounds or SVOCs detected in the groundwater samples. Therefore, as indicated in Section 4.2.2, groundwater beneath the site has not been impacted by a gasoline or other petroleum hydrocarbon-based fuel release.

The VOCs trichloroethene and tetrachloroethene were detected in concentrations that were above the NYSDEC Class GA groundwater standards in upgradient well MW-101. These compounds were detected below the groundwater standards in downgradient wells MW-102 and S10MW-1. Therefore, it appears that contaminated groundwater from an off-site source has migrated beneath the Plant 114 property with the concentrations of contaminants in groundwater decreasing with respect to the distance from the source located upgradient of the Plant 114 property.

As previously discussed in Section 2.6, the Ruco Polymer facility is an NPL site with a documented volatile and semivolatile organic groundwater plume. Based upon a review of water table elevation maps prepared by others, dated April and August 1993, the predominant direction

of groundwater flow in the vicinity of the Ruco Polymer site and Plant 114 is to the southeast. Although recharge basins and the effects of groundwater withdrawal by nearby production wells cause seasonal shifts in flow direction in this area, based upon a review of the existing water table elevation maps, it appears that the Plant 114 property is located downgradient of the Ruco Polymer site.

Previous investigations have documented groundwater contamination in the vicinity of the Plant 114 property that is associated with the Ruco Polymer site. The results of groundwater samples collected as part of this Phase II Site Assessment indicate that the groundwater contamination from the Ruco Polymer site appears to have migrated beneath the Plant 114 property. Although groundwater degradation remains an environmental concern, previous and ongoing investigations have documented the source of this contamination to be from off-site, upgradient locations. Furthermore, ongoing investigations are expected to further delineate the existing groundwater contamination in the vicinity of the Plant 114 property. In particular, the New York State Department of Environmental Conservation and the U.S. Environmental Protection Agency are involved in the active oversight of the remedial investigations, feasibility studies and the remediation of all operable units, including groundwater plumes associated with adjacent properties such as the Ruco Polymer site. Therefore, further investigation and/or monitoring of groundwater does not appear to be warranted at this time.

5.3 Hydraulic Oil Underground Storage Tank

As indicated in Section 4.3, the endpoint soil samples obtained from the hydraulic oil UST and lifts did not exhibit concentrations of STARS Table 2 VOCs and SVOCs in excess of NYSDEC recommended soil cleanup objectives, thereby indicating a "clean" closure of the hydraulic oil UST and lifts. Therefore, further investigatory/remedial activities in this area do not appear to be warranted.

Appendix A



APPENDIX A

SUPPLEMENTAL INFORMATION

FIRE DEPARTMENT BETHPAGE INSP. DATE 11/30/77 DIV. No. C-65-90-21

INSPECTED BY R.J. KULNEK

ADDRESS OF INSPECTION 920 SOUTH DUSTY LN Rd

OCCUPANT N.Y. TEL PHONE 694-9954

PRINCIPALS OF BUSINESS WALT WEINMAN GARAGE FIRMAN

BUILDING OWNER GILMANIAN CORP.
MOTOR VEHICLE DEP ALLEN CVD (WAITING PERMIT #2)

INSPECTION MADE WITH ~~Henry Adams~~ Dick Eccleston - Red Fire

NATURE OF BUSINESS N.Y. TEL. Co.

TANKS.

- a) Number 2
- b) Size-Product-Supplier (2) 5K Reg TEXACO Signaled
- c) No. of years in ground 5-6 years
- d) Owner occup
- e) Fills protected or at grade in fill box ok
- f) Condition of fill & stick caps (threads & gaskets) 1
eventual covering gasket

VENTS.

- a) Proper height ok
- b) Proximity to building ok
- c) Proper vent caps ok

PUMPS

- a) Owner occup
- b) Physical protection (Islands or stantions) ok

DIKES (above ground storage) N/A

NO SMOKING SIGNS ok

FLAMMABLE SIGNS (above ground) N/A

PROPER NOZZLES ok

HOSES (physical damage) possible for use - but: traffic

CRADLE/SUPPORT (above ground) _____

_____ split hose in front _____

899 Jerusalem Avenue
P.O. Box 225
Uniondale, New York 11553

NOTICE OF VIOLATION

Insp. No. C-GS-90-21

January 5, 1978

(Date)

TO Mr. Walter Weinman, Garage Foreman

New York Telephone Company
Allen Blvd. & Baiting Place Road, Farmingdale, N.Y. 11735

NOTICE is hereby given of certain violations of the Nassau County Fire Prevention Ordinance existing on the premises located at:

Inspection of property at: 920 South Oyster Bay Road,

Bethpage, New York

Request is hereby made that said violations consisting of:

1. Our records indicate that the underground bulk storage gasoline tanks have never been hydrostatically tested as required by Article III of the NASSAU COUNTY FIRE PREVENTION ORDINANCE.

The aforementioned test must be performed so as to meet the requirements of this office, and to assist you, enclosed is a list of contractors who do this type of testing.

2. Replace defective gasket on fill pipe cap.

3. Replace defective split dispensing hose and institute precautionary measures to prevent physical damage to dispensing hoses.

be corrected or removed forthwith. Failure to do so may subject you to the penalties as provided in the Nassau County Fire Prevention Ordinance.

RJK:mav
Enc.

Lloyd G. Ryan
FIRE MARSHAL
COUNTY OF NASSAU

Richard J. Kelner
Fire Inspector
Commercial/Industrial Divis

By _____

FIRE DEPT. Bethpage INSP. DATE 4/30/80 INSP. NO. GS90-21
 INSPECTOR Warner
 BUSINESS OWNER'S NAME _____ PHONE 666 794-9984
 BUSINESS NAME N.Y. Telephone Co.
 BUSINESS ADDRESS 15 Ave C Westbury Mr R. Dooly
Carle Place, NY
 TANK LOCATION 920 South Oyster Bay Rd
 BUILDING OWNER _____ PHONE _____
 BUILDING OWNER'S ADDRESS _____
 INSPECTION MADE WITH Bob Maloney TANK OWNER _____
 TYPE OF BUSINESS _____ SUPPLIER Texas

DIESEL		UNDERGROUND TANKS			
NO. OF TANKS	SIZE	GASOLINE		NO.	SIZE
		NO. OF TANKS	SIZE		
		1	5 M		
		1	5 M		

1. HAVE TANKS BEEN REGISTERED? GS-1 YES _____ NO SOME _____
2. HAVE TANKS BEEN TESTED? GS-2 or 2A YES NO _____ SOME _____
3. ARE FILLS PROTECTED AT GRADE? GS-3 YES NO _____ SOME _____
4. DO VENTS EXIST? GS-4 YES NO _____
5. ARE VENTS PROPER HEIGHT? GS-5 or 5A YES NO _____
6. PROPER VENT CAPS? GS-6 YES NO _____
7. PUMPS-PHYSICAL PROTECTION? GS-7 YES NO _____
8. HOSES-RETRACTORS WORKING? GS-8 YES _____ NO
9. NO SMOKING SIGNS GS-9 YES NO _____
10. FIRE EXTING. EXIST? GS-10 YES NO _____
11. FIRE EXTING. NEED RECHARGE? GS-11 YES _____ NO
12. INVENTORY EXIST? GS-12 YES NO _____
13. PROPER NOZZLES? BSI-104 YES NO _____

*Present sign being accepted as existing

NASSAU COUNTY FIRE COMMISSION

OFFICE OF FIRE MARSHAL

899 JERUSALEM AVENUE
P.O. BOX 128
UNIONDALE, NEW YORK 11553

BUREAU OF FIRE PREVENTION

NOTICE OF VIOLATION

Insp. No. GS-90-21

May 13, 1980
(Date)

TO Mr. R. Deedy, New York Telephone Company,
15 Avenue "C", Westbury, New York 11590

NOTICE is hereby given of certain violations of the Nassau County Fire Prevention Ordinance existing on the premises located at:

920 South Oyster Bay Road
Bethpage, New York

Request is hereby made that said violations consisting of:

1. THE TANKS ARE NOT REGISTERED WITH THIS OFFICE. Flammable and combustible liquid tanks shall be registered with the Fire Marshal, on forms provided.
2. Provide a suitable hose hanger for dispensing hoses so that they do not lay in the driveway.

be corrected or removed forthwith. Failure to do so may subject you to the penalties as provided in the Nassau County Fire Prevention Ordinance.

David M. Bartow
Supervising Fire Inspector

JOSEPH G. BOSLET, JR.
FIRE MARSHAL
COUNTY OF NASSAU

JW:cc
ENC.
FC-154. 11/68 Rev. 3/79

By Jeffrey Warner
Fire Inspector
Industrial Division



JOSEPH G. BOSLET, JR.
FIRE MARSHAL

OFFICE OF THE FIRE MARSHAL
899 JERUSALEM AVENUE
P.O. BOX 128
UNIONDALE, NEW YORK 11553
516 292-4826

APPLICATION FOR UNDERGROUND FLAMMABLE/COMBUSTIBLE
LIQUID TANK REGISTRATION

DATE ISSUED 2-17-82 PERMIT NO. unknown INSP. NO. 3590-21

NAME OF APPLICANT New York Telephone

ADDRESS 920 South Oyster Bay Rd. Bethpage TEL. NO. 681-9984

TANK LOCATION _____

D/B/A: NAME New York Telephone Co.

ADDRESS 15 Ave C Westbury NY TEL. NO. 794-9984

TANK NO.	SIZE	PRODUCT	DATE INSTALLED	DATE TESTED	CONSTRUCTION
1	10,000 5,000	unl. gas	1975	10/26/78	Steel
2	5,000	M/L	1975	10-26-78	STEEL.
3					
4					
5					
6					
7					
8					
9					
10					

R. F. Deedy
NAME OF APPLICANT

R. F. DEEDY, MANAGER (2)
TITLE

SIGNATURE OF APPLICANT _____

MARY N. VILLA
Notary Public, State of New York
4509380
Qualified in Rockland County
Commission expires March 30, 1983

Mary N. Villa
NOTARY

DATE 9-23-81

GAS STATION CHECK LIST
(3/80)

FIRE DEPT. Bethpage INSP. DATE 4/26/82 DIV. NO. 6590-4
 INSPECTOR La Rocca
 BUSINESS OWNER'S NAME on file NY TELCO PHONE 931-9951
 BUSINESS NAME NY Telephone
 BUSINESS ADDRESS 920 S. O. B. Rd
 TANK LOCATION Behind Bldg
 BUILDING OWNER GRUMMAN PHONE _____
 BUILDING OWNER ADDRESS HICKS L. Ho Rd
 BRAND PVT COMPANY STATION? Yes _____ No X
 INSP. MADE WITH MP. Heins - Facilities/MAR

No. of Tanks	Size	Product	No. Tank	Size	Product
1	5M	UNK			
2	5M	UNK			

check files for test registration

- | | | | | | | | |
|--------------------------------------|------------|-----|----------|----|----------|------|-------|
| 1. HAVE TANKS BEEN REGISTERED? | GS-1 | YES | <u>X</u> | NO | _____ | SOME | _____ |
| 2. HAVE TANKS BEEN TESTED? | GS-2 or 2A | YES | <u>X</u> | NO | _____ | SOME | _____ |
| 3. ARE FILLS PROTECTED AT GRADE? | GS-3 | YES | <u>X</u> | NO | _____ | SOME | _____ |
| 4. DO VENTS EXIST? | GS-4 | YES | <u>X</u> | NO | _____ | | |
| 5. ARE VENTS PROPER HEIGHT? | GS-5 or 5A | YES | <u>X</u> | NO | _____ | | |
| 6. PROPER VENT CAPS? | GS-6 | YES | <u>X</u> | NO | _____ | | |
| 7. PUMPS-PHYSICAL PROTECTION? | GS-7 | YES | <u>X</u> | NO | _____ | | |
| 8. HOSES-RETRACTORS WORKING? | GS-8 | YES | _____ | NO | <u>X</u> | | |
| 9. NO SMOKING SIGNS | GS-9 | YES | <u>X</u> | NO | _____ | | |
| 10. FIRE EXTING. EXIST? | GS-10 | YES | <u>X</u> | NO | _____ | | |
| 11. FIRE EXTING. HAVE BEEN SERVICED? | GS-11 | YES | <u>X</u> | NO | <u>X</u> | | |
| 12. INVENTORY EXIST? | GS-12 | YES | <u>X</u> | NO | _____ | | |

NASSAU COUNTY FIRE COMMISSION
OFFICE OF FIRE MARSHAL

RETURN THIS COPY TO
NASSAU COUNTY FIRE MARSHAL

899 Jerusalem Avenue
P.O. Box 128
Uniondale, New York 11553

Bureau of Fire Prevention
516 663-5817

ORDER TO REMOVE VIOLATIONS FORTHWITH

April 27, 1982

Insp. No. GS 90-21

(Date)

TO Mr. R. Deedy, N.Y. Telephone Co.
15 Avenue "C", Westbury, N.Y. 11590

Inspection of the premises at: N.Y. Telephone Co. Building
920 South Oyster Bay Road, Bethpage, N.Y.

discloses the existence of certain violations of Article III of the Nassau County Fire Prevention Ordinances, No. 51-1981. As Amended Feb. 23, 1981, consisting of the following.

1. THE HOSE RETRACTORS NEED TO BE REPAIRED. Repair or replace hose retractors so that dispensing hoses are not lying in driveways.
2. THE FIRE EXTINGUISHER NEEDS TO BE SERVICED. Fire extinguishers shall be serviced annually and immediately after each use, and a tag affixed showing date of service, and by whom the work was done.

RECEIVED X *[Signature]*

Pursant to the authority given the undersigned under the provisions of the Nassau County Fire Prevention Ordinance, 51-1981, as Amended February 23, 1981:

YOU ARE HEREBY ORDERED TO REMOVE SAID VIOLATIONS FORTHWITH.

Failure to obey this written order may result in punishment as provided in Article III, Section 3.11 of the Nassau County Fire Prevention Ordinance 51 - 1981 which is as follows:

Any person or business entity other than a corporation violating any provision of this Article, or failing to comply therewith, or violating or failing to comply with any order or regulation made thereunder, shall upon conviction be guilty of a misdemeanor punishable by a fine not exceeding one thousand dollars (\$1,000.00) or, by imprisonment for not more than one (1) year or, both, for each and every offense. A corporation violating any provisions of this Article, or failing to comply therewith, or violating or failing to comply with any order or regulation made thereunder, shall upon conviction be guilty of a misdemeanor punishable by a fine not exceeding five thousand (\$5,000.00) dollars for each and every offense. The imposition of the penalty for any violation of this Article shall not excuse the violation or permit it to continue, and each fifteen (15) days that the prohibited conditions are maintained shall constitute a separate offense.

JAL:lm
cc - Mr. Heins, Facility Manager

Joseph A. LaRocca, Jr.
Fire Inspector
Industrial Division

David M. Bartow
Supervising Fire Inspector
Industrial Division

FMIGS93 00113

PERMIT NO.

02703

STATE OF NEW YORK
COUNTY OF NASSAU
OFFICE OF FIRE MARSHAL

TR FLAMMABLE/COMBUSTIBLE LIQUID STORAGE TANK REGISTRATION

LOCATION: NEW YORK TELEPHONE 920 SOUTH OYSTER BAY ROAD HICKSVILLE, NY 11801

ISSUED TO: NAME NEW YORK TELEPHONE DATE ISSUED: 08/31/86
ADDRESS 920 SOUTH OYSTER BAY ROAD EXPIRE DATE: 09/30/91
HICKSVILLE, NY 11801

TANK	SIZE	PRODUCT	DATE INSTALLED	DATE TESTED	CONSTRUCTION
H501	5K	3 01203 03	01/01/75	10/26/79	STL
H502	5K	3 01203 03	01/01/75	10/26/79	STL

[Handwritten signature]

ASSISTANT FIRE MARSHAL

THOMAS S. GULOTTA
COUNTY EXECUTIVE

NASSAU COUNTY FIRE COMMISSION
OFFICE OF FIRE MARSHAL
899 JERUSALEM AVENUE
P.O. BOX 128
UNIONDALE, NEW YORK 11553
(516) 566-5800

JOSEPH G. BOSLET, JR.
FIRE MARSHAL

JULY 04, 1989

RE: FMKEY FMIGS93 00113
NEW YORK TELEPHONE
920 SOUTH OYSTER BAY ROAD
HICKSVILLE NY 11801

TO NEW YORK TELEPHONE
920 SOUTH OYSTER BAY ROAD
HICKSVILLE NY 11801

DEAR SIRs:

OUR RECORDS INDICATE THAT YOUR FLAMMABLE/COMBUSTIBLE LIQUID
STORAGE TANK(S) ARE OVERDUE TO BE TESTED FOR TIGHTNESS AS REQUIRED
BY ARTICLE III OF THE NASSAU COUNTY FIRE PREVENTION ORDINANCE.

LISTED BELOW ARE THE TANK(S) THAT ARE REQUIRED TO BE TESTED:

TANK	SIZE	CONTENTS	DATE LAST TESTED	NEXT SCH DATE	CONST
H801	5K	30120303	10/26/79	10/26/81	STL
H802	5K	30120303	10/26/79	10/26/81	STL

ENCLOSED IS THE LIST OF LICENSED TANK TESTING CONTRACTORS.

INDUSTRIAL DIVISION

ENCLOSURE

THOMAS S. GULOTTA
COUNTY EXECUTIVE
JOSEPH G. BOSLET, JR.
FIRE MARSHAL



NASSAU COUNTY FIRE COMMISSION
OFFICE OF FIRE MARSHAL

899 JERUSALEM AVENUE
P.O. BOX 128
UNIONDALE, NEW YORK 11553

August 1989
Insp. No. GS-93-113

NEW YORK TELEPHONE
920 SOUTH OYSTER BAY ROAD
HICKSVILLE, NEW YORK 11801

TO WHOM IT MAY CONCERN:

Article III of the Nassau County Fire Prevention Ordinance, Section 3.6.3.1.2 requires that all existing underground steel storage tanks be replaced in accordance with the following schedule:

All steel tanks placed into service after February 23, 1961 and before February 23, 1976 shall be replaced, removed or permanently abandoned by February 23, 1990.

The following is a list of tanks at your location which our records indicate require replacement, abandonment or removal:

<u>SIZE</u>	<u>CONTENTS</u>	<u>INSTALLATION DATE</u>
5K	UNLEADED GAS	1/1/75
5K	UNLEADED GAS	1/1/75

If you have any questions please feel free to call this office at (516) 566-5832.

Very truly yours,

David M. Bartow
Supervising Fire Inspector
Industrial Division

1679C

THOMAS S. GULOTTA
COUNTY EXECUTIVE
JOSEPH G. BOSLET, JR.
FIRE MARSHAL



NASSAU COUNTY FIRE COMMISSION
OFFICE OF FIRE MARSHAL
899 JERUSALEM AVENUE
P.O. BOX 128
UNIONDALE, NEW YORK 11553

TO: NASSAU COUNTY FIRE MARSHAL
FROM: FENLEY & NICOL Co., INC.
445 BROOK AVE.
DEER PARK, N.Y. 11729

FM KEY 6893-113

CONCERNING TANKS AT:
920 S. Oyster Bay Rd.
Bethpage, N.Y.

The following flammable /combustible liquid storage tanks at the above location have been:

- T - Placed temporarily out-of-service (if permitted), or
- P - Permanently abandoned in place, or
- R - Removed from the premises.

LBV ✓

(indicate one of the above letters under "STATUS" for each tank.)

TANK TYPE*	TANK SIZE	CONSTRUCTION	STATUS	DATE WHEN DONE
U/G	4000	Steel	R	5/21/87
U/G	4000	Steel	R	5/21/87

* NOTE: if the tank type is unknown, indicate either A/G (aboveground) or U/G (underground). If more than 8 tanks, use an additional sheet.

=====
All work as indicated above has been done in accordance with the applicable Sections of Article III of The Nassau County Fire Prevention Ordinance.

ROBERT J LASZCZIK
Name
Robert J Laszczik
Signature

County of Suffolk
State of New York
sworn to before me this
6th day of march 1990

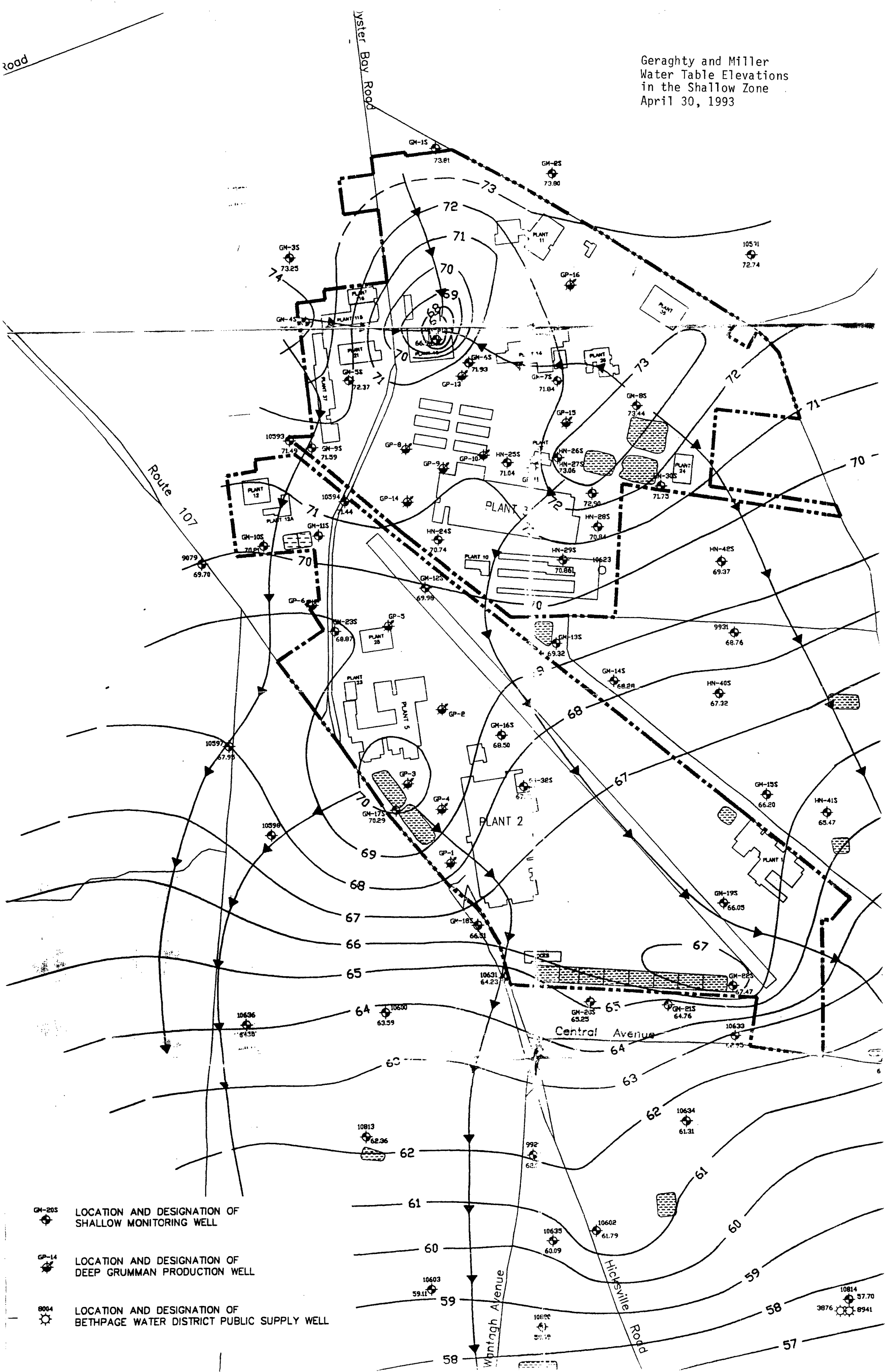
SUEAN M. BROTHERS
Notary Public, State of New York
No. 406388
Qualified in Suffolk County
Commission Expires August 28, 1991




Suean M. Brothers
Notary Signature

Notary Stamp
0841C / 110788

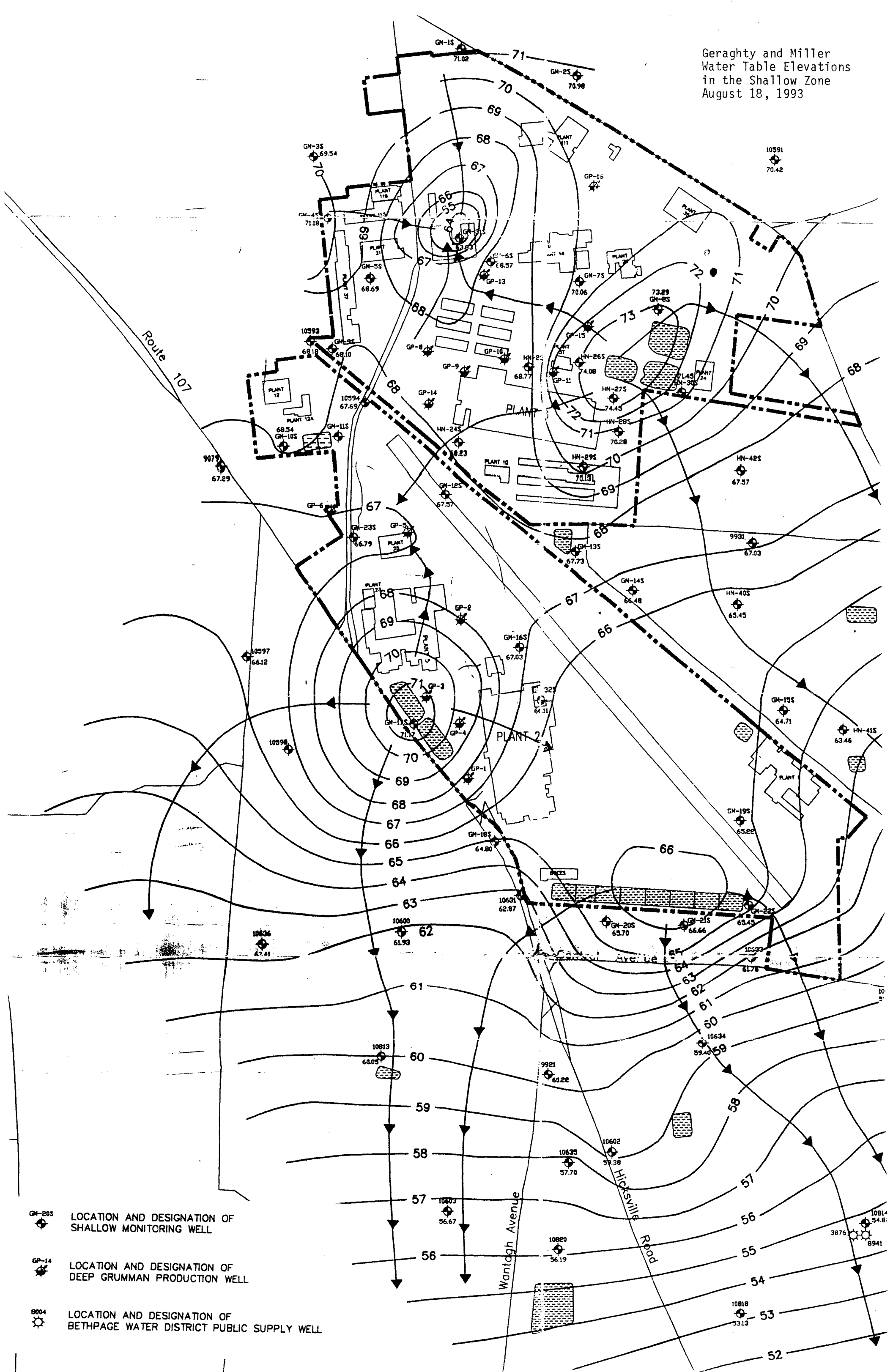
road




Geraghty and Miller Water Table Elevations in the Shallow Zone April 30, 1993



- 
 GH-20S LOCATION AND DESIGNATION OF SHALLOW MONITORING WELL
- 
 GP-14 LOCATION AND DESIGNATION OF DEEP GRUMMAN PRODUCTION WELL
- 
 8004 LOCATION AND DESIGNATION OF BETHPAGE WATER DISTRICT PUBLIC SUPPLY WELL

Geraghty and Miller
Water Table Elevations
in the Shallow Zone
August 18, 1993



- 
GN-205 LOCATION AND DESIGNATION OF SHALLOW MONITORING WELL
- 
GP-14 LOCATION AND DESIGNATION OF DEEP GRUMMAN PRODUCTION WELL
- 
8004 LOCATION AND DESIGNATION OF BETHPAGE WATER DISTRICT PUBLIC SUPPLY WELL

Appendix B



APPENDIX B

DAILY FIELD ACTIVITY REPORTS

♣1167\S0418601.DOC(R01)



DVIRKA
AND
BARTILUCCI

DAILY FIELD ACTIVITY REPORT

Report Number: 1 Project Number: 1167-JJ-2 Date: 4/17/96

Field Log Book Page Number: Miscellaneous Log Book #1 p. 80-84

Project: Grumman Plant 114

Address: 920 So. Oyster Bay Rd., Bethpage

Weather: (AM) Mr. Sunny Rainfall: (AM) - Inches
(PM) ↓ (PM) - Inches

Temperature: (AM) 40 °F Wind Speed: (AM) 10-25 MPH Wind Direction: (AM) W
(PM) 55 °F (PM) - MPH (PM) ↓

Site Condition: Dry

Personnel On Site:	Name	Affiliation	Arrival Time	Departure Time
	<u>D. Ohradovich</u>	<u>D&B</u>	<u>8:00</u>	<u>5:30</u>
	<u>E. Kitt</u>	<u>↓</u>	<u>↓</u>	<u>8:40</u>
	<u>A. Postyn</u>	<u>GAC</u>	<u>8:00</u>	<u>8:45</u>
	<u>W. Roland</u>	<u>Clearwater Env. 'tal</u>	<u>8:30</u>	<u>5:30</u>
	<u>K. Vigliotta</u>	<u>↓</u>	<u>↓</u>	<u>↓</u>
	<u>J. Emington</u>	<u>↓</u>	<u>4:30</u>	<u>5:30</u>

Subcontractor Work Commencement: (AM) 8:30 (PM) NA

Subcontractor Work Completion: (AM) NA (PM) 5:30

DB-DFAR



DAILY FIELD ACTIVITY REPORT

Work performed today by subcontractor(s) (includes equipment and labor breakdown):

Clearwater Environmental (Emington Env'tal)

W Roland + D. Vigliotta mobilized on-site. Drilled from 58' - 76' bg @ MW-102 w/ 4 1/4" ID HSA. Collected 3 split spoon samples (2" dia. x 2' long) at 62-64, 64-66, 66-68 feet bg. to confirm water table. Set 15' PVC 0.01" slot screen and 60' of 2" PVC riser from 0-75.5' bg. Installed sand pack Marie Grade from 58' to 76' bg. Bent Seal (hydrated pellets) from 56.0' to 58.0' bg. Installed cement bentonite grout from 0-56.0' bg. Decon'd augers + split spoons before and after drilling.

DAILY FIELD ACTIVITY REPORT

General work performed today by D&B: oversight @ MW-102 drilling,
coordination of drilling activity, logging of borehole &
installation of well, field forms

List specific inspection(s) performed and results (include problems and corrective actions):
NA

List type and location of tests performed and results (include equipment used and monitoring results):
Air monitoring for total organic vapors w/ Microtip PID
meter

Verbal comments received from subcontractor (include construction and testing problems, and recommendations/resulting action):
NA

Prepared by: D.W.D. Reviewed by: _____



DVIRKA
AND
BARTILUCCI

DAILY FIELD ACTIVITY REPORT

Report Number: 2 Project Number: 1167-JJ2 Date: 4/18/96

Field Log Book Page Number: Misc Book #1, p. 85-88

Project: Gromman plant 114

Address: 920 So. Oyster Bay Rd., Bethpage

Weather: (AM) Sunny Rainfall: (AM) 0 Inches
(PM) ↓ (PM) ↓ Inches

Temperature: (AM) 50 °F Wind Speed: (AM) 0-10 MPH Wind Direction: (AM) W
(PM) 65 °F (PM) ↓ MPH (PM) ↓

Site Condition: Dry

Personnel On Site:	Name	Affiliation	Arrival Time	Departure Time
	<u>D. Obradovich</u>	<u>D&B</u>	<u>8:30</u>	<u>5:00</u>
	<u>W. Roland</u>	<u>Clearwater Env'tal</u>	<u>8:00</u>	<u>↓</u>
	<u>D. Vigliotta</u>	<u>↓</u>	<u>↓</u>	<u>↓</u>
	<u>J. Emington</u>	<u>Emington Env'tal</u>	<u>9:00</u>	<u>↓</u>
	<u>B. Vigliotta</u>	<u>Clearwater</u>	<u>8:00</u>	<u>↓</u>

Subcontractor Work Commencement: (AM) 8:00 (PM) NA

Subcontractor Work Completion: (AM) NA (PM) 5:00

DB-DFAR



DAILY FIELD ACTIVITY REPORT

Work performed today by subcontractor(s) (includes equipment and labor breakdown):

Clear water Envtal

W. Roland, J. Emington, B. Vigiotta + D. Vigiotta drilled
4 1/4" ID HSA @ MW-101 from 0-76' by. Collected 5 split
spoon samples from 60-70' by. Installed 15' PVC screen
and 60' riser (2" PVC) from 0-75.5' by. Installed
sand pack from 58-76' by, bent seal (pellets) from 56-58'
by, and bent cement grout from 0-56' by. Flush mount
manhole and concreted to grade. (Also installed " "
" " " " " @ MW-102)



DATE: 4/18/96

DAILY FIELD ACTIVITY REPORT

General work performed today by D&B: Oversight to monitoring well
MW-101 installation, field forms

List specific inspection(s) performed and results (include problems and corrective actions):
NA

List type and location of tests performed and results (include equipment used and monitoring results):
Monitoring of total organic vapors with Photovac Microtip
PID

Verbal comments received from subcontractor (include construction and testing problems, and recommendations/resulting action):
NA

Prepared by: D.W.O. Reviewed by: _____



DAILY FIELD ACTIVITY REPORT

Work performed today by subcontractor(s) (includes equipment and labor breakdown):

Emington Environmental

J. Emington performed well development @ MW-101 & MW-102 using generator & Grundfos Ready-Flow 2" submersible pump & blk poly-pipe 1" dia.



DATE: 4/19/96

DAILY FIELD ACTIVITY REPORT

General work performed today by D&B: Oversight to well development at
MW-101 and MW-102, collection of water quality readings,
and completed field forms.

List specific inspection(s) performed and results (include problems and corrective actions):

NA

List type and location of tests performed and results (include equipment used and monitoring results):

NA

Verbal comments received from subcontractor (include construction and testing problems, and recommendations/resulting action):

NA

Prepared by: D.W.O. Reviewed by: _____



DVIRKA
AND
BARTILUCCI

DAILY FIELD ACTIVITY REPORT

Report Number: 1 Project Number: 1167-JJ Date: 4/23/96

Field Log Book Page Number: 1-3

Project: GAC - Bethpage, Plant 114

Address: S. Oyster Bay Rd. Bethpage N.Y.

Weather: (AM) Sunny - Breezy Rainfall: (AM) 0 Inches
(PM) " " (PM) 0 Inches

Temperature: (AM) 70's °F Wind Speed: (AM) 0-5 MPH Wind Direction: (AM) SW
(PM) " °F (PM) " MPH (PM) "

Site Condition: Dry - pavement and surrounding bldg.

Personnel On Site:	Name	Affiliation	Arrival Time	Departure Time
	Mark Rankin	DTB	8 ⁰⁰	6 ⁰⁰
	John Emmington	Emmington Env.	8 ¹⁵	11 ⁰⁰
	Wally Rowland	" "	8 ⁰⁰	6 ⁰⁰
	Dennis Vigliotta	" "	"	6 ⁰⁰
	Marty Rowan	" "	"	4 ⁰⁰

Subcontractor Work Commencement: (AM) 9³⁰ (PM) 12⁵⁰^{o.k.}

Subcontractor Work Completion: (AM) 12⁰⁵ (PM) 6⁰⁰



DAILY FIELD ACTIVITY REPORT

General work performed today by D&B: observe the installation of geoprobe soil borings @ Plant 114 in the Gasoline Tank/Loading Area (Being I.D. ATCA)
0-62' sampling @ 5' intervals (i.e. 0-2', 5'-7', 10'-12', etc.)
 • Characterize all soil samples collected & select samples for lab analysis
 • Complete all req'd field forms incl. chain-of-custody & secure samples for lab analysis

List specific inspection(s) performed and results (include problems and corrective actions):

~~Conducted~~ Inspected w/ Rich Russell locations for borings within Plant 114 interior & Primary Loading Pads outside bldg. (in front) former onsite sanitary disposal pads

List type and location of tests performed and results (include equipment used and monitoring results):

• Conducted ambient air & breach monitoring using a PID - refer to days air monitoring form for results
 • Conducted soil sample headspace readings for soil screening / sample selection purposes

Verbal comments received from subcontractor (include construction and testing problems, and recommendations/resulting action):

Prepared by: M. Lauber Reviewed by: _____



DAILY FIELD ACTIVITY REPORT

Work performed today by subcontractor(s) (includes equipment and labor breakdown):

1. Installed separate soil boring @ Plat 114 in the Gasline Tank/Leveling Area using an Earthprobe separate sys. (Boring I.D. ATLA)

2. Collected 12 samples from above boring (OG I.D. ATLA)

Sample I.D.	Sample Interval	Recovery	
ATLA01	0-2'	-	(liner broke)
" 02	5'-7'	0.9'	☐
* " 03	10'-12'	1.5'	
* " 04	15'-17'	2.0'	
" 05	20'-22'	0.8'	
" 06	25'-27'	1.1'	
" 07	30'-32'	2.0'	
" 08	35'-37'	2.0'	
" 09	40'-42'	2.0'	
" 10	45'-47'	2.0'	
** " 11	50'-52'	1.9'	
" 12	55'-57'		refusal @ 53' below grade - no samples
" 13	60'-62'		

3. Contractor backfilled borehole ATLA w/ remaining soil samples not selected for Lab analysis & cold patched w/ blacktop borehole - complete

* Sample selected for STARS - Table 1 Lab analysis due to P10 readings of 12.1 p. + 0.1 s in sample ATLA03 and next sample interval ATLA04

** Sample selected due to closest sample interval to gw interface



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DAILY FIELD ACTIVITY REPORT

Report Number: 2 Project Number: 1161-JJ Date: 4/24/96

Field Log Book Page Number: pp 4-7

Project: GAC - Plant 114 Phase II EA

Address: Bethpage N.Y. (S. Oyster Bay Road) #420

Weather: (AM) Sunny Windy Cool Rainfall: (AM) - Inches
(PM) " " " (PM) - Inches

Temperature: (AM) 50's °F Wind Speed: (AM) 0-15 MPH Wind Direction: (AM) N
(PM) " °F (PM) " MPH (PM) "

Site Condition: Bldg. Exterior - Dry

Personnel On Site:	Name	Affiliation	Arrival Time	Departure Time
	Mark Rauby	D+B	8 ⁰⁵	4 ⁴⁵
	Nally Rowland	Emmington Env.	"	4 ⁰⁰
	Dennis Vigliotta	" "	"	"
	John Emmington	" "	9 ⁴⁵	10 ⁴⁵

Subcontractor Work Commencement: (AM) 8³⁰ (PM) 1¹⁵

Subcontractor Work Completion: (AM) 12³⁰ (PM) 4⁰⁰

DAILY FIELD ACTIVITY REPORT

Work performed today by subcontractor(s) (includes equipment and labor breakdown):

- Contractor installed soil borings @ GAC-Plant 114 in the former Sanitary Disposal Systems located along the front side of Plant 114.
Boring I.D.: SDSA ~~SDSB~~ (1 boring in ~~the~~ sanitary pool)
• Boring was performed to 48' w/ soil sampling in 5' intervals as follows:

SDSA				SDSB			
Sample I.D.	Sample Interval	Recovery	(ppm) P112	Sample I.D.	Sample Interval	Recovery	(ppm) P112
SDSA01	3'-5'	0.7'	3.5/2.4	SDSB01	3'-5'		
" 02	8'-10'	0.7'	2.0/2.0	" 02	8'-10'		
" 03	13'-15'	0.6'	1.3/1.3	" 03	13'-15'		
" 04	18'-20'	1.5'	1.4/1.4	" 04	18'-20'		
" 05	23'-25'	2.0'	2.1/2.1	" 05	23'-25'		
" 06	28'-30'	2.0'	0/0	" 06	28'-30'		
" 07	33'-35'	2.0'	0/0	" 07	33'-35'		
" 08	38'-40'	2.0'	0/0	" 08	38'-40'		
" 09	43'-45'	2.0'	0/0	" 09	43'-45'		
" 10	48'-50'	} refused @ 45'		" 10	48'-50'		
" 11	53'-55'			" 11	53'-55'		
" 12	58'-60'			" 12	58'-60'		

- Contractor secured 9 soil samples from Boring SDSA
SDSB

- ~~Contractor~~ Contractor conducted decon procedures of geoprobe sampler prior to re use using alconox wash & D.I. water rinse
- Contractor backfilled the borehole w/ leftover soil samples & complete w/ asphalt patch



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DAILY FIELD ACTIVITY REPORT

Report Number: 3 Project Number: 1167-JJ Date: 4/25/96

Field Log Book Page Number: pp. 8-11

Project: GAC - Plant 114 - Phase II EA

Address: 920 South Oyster Bay Rd. Bethpage, NY.

Weather: (AM) Sunny - Pleasant Rainfall: (AM) - Inches
(PM) " " Breezy (PM) - Inches

Temperature: (AM) 60's °F Wind Speed: (AM) 0-5 MPH Wind Direction: (AM) S
(PM) 70's °F (PM) 0-10 MPH (PM) SW

Site Condition: Bldg. Exterior - Dry parking area

Personnel On Site:	Name	Affiliation	Arrival Time	Departure Time
	Mark Rauber	db	8 ⁰⁰	5 ³⁰
	Wally Rowland	Emminger Env.	8 ⁰⁵	5 ⁰⁰
	Dennis Vigliotta	" "	"	5 ⁰⁰

Subcontractor Work Commencement: (AM) 8⁰⁰ (PM) 1¹⁵

Subcontractor Work Completion: (AM) 12⁰⁰ (PM) 4³⁰



DAILY FIELD ACTIVITY REPORT

General work performed today by D&B: ① Observed Contractor conduct soil boring/sampling activities

② Plant 114 in former Sanitary Disposal System (boring I.D. SPSB) from 0 → 51' ③ 5' intervals

④ Collected soil samples, screened for selectric & subsequent lab analysis w/ PID (Microtip) - calibrated to support isobutylene

⑤ Sealed lab samples & completed all of days req'd field forms

⑥ Observed contractor's decom procedures of ~~spun~~ spun samples between uses

List specific inspection(s) performed and results (include problems and corrective actions):

List type and location of tests performed and results (include equipment used and monitoring results):

· Conducted ambient air monitoring activities - refer to days air monitoring form for results

· " soil sample " " " " " " boring logs for results

Verbal comments received from subcontractor (include construction and testing problems, and recommendations/resulting action):

Prepared by: M. Raabes Reviewed by: _____

DAILY FIELD ACTIVITY REPORT

Work performed today by subcontractor(s) (includes equipment and labor breakdown):

- ① Contractor conducted soil boring/sampling activities utilizing an Earthprobe 200
 geophone system w/ 1 1/2" & sampler @ plant 114 @ Boring I.D. SDSB
 (in former Sanitary Disposal Sys.) as follows: (sampling conducted @ 5' interval
 from 0 → (i.e. 3'-5', 8'-10', 13'-15' etc.)

Boring I.D. = SDSB

Sample I.D.	Sample Int.	Rec./H.	Pis reading (ppm)	Peak/Steady
1. SDSB01	3'-5'	0.9'	1.7 / 0.4	
2. SDSB02	8'-10'	1.3'	1.0 / 0.6	
* 3. SDSB03	13'-15'	1.2'	2.8 / 1.4	- Low recovery
** 4. SDSB04	18'-20'	2.0'	2.9 / 1.7	
5. SDSB05	23'-25'	2.0'	1.7 / 1.7	
6. SDSB06	28'-30'	2.0'	1.7 / 1.6	
7. SDSB07	33'-35'	2.0'	3.0 / 2.7	(maybe due to moisture)
8. SDSB08	38'-40'	2.0'	2.1 / 2.1	" " " "
9. SDSB09	43'-45'	2.0'	3.1 / 3.1	" " " "
10. SDSB10	48'-50'	2.0'	2.8 / 2.8	" " " "
*** 11. SDSB11	51'-53'	2.0'	3.6 / 3.6	" " " "

11 samples collected @ beneath SDSB

* " collected/secured for lab analysis due to initial increase in Pis readings

** Sample selected for lab analysis due to "next" sample interval

*** Sample selected for lab analysis due to closest proximity to GW interface

② Contractor decontaminated sampler using alcohol wash & D.I. water rinse between uses

⑤ " backfilled/cemented borehole w/ sand



DAILY FIELD ACTIVITY REPORT

General work performed today by D&B: Groundwater purging and sampling
at MW-101, 102 & S10MW-1, sample preparation, and
field forms

List specific inspection(s) performed and results (include problems and corrective actions):

NA

List type and location of tests performed and results (include equipment used and monitoring results):

NA

Verbal comments received from subcontractor (include construction and testing problems, and recommendations/resulting action):

NA

Prepared by: D.W.O. Reviewed by: _____



Report Number: _____ Project Number: 1167-JJ Date: 6/24/96

Field Log Book Page Number: _____

Project: Grumman Plant 114 Phase II Site Assessment

Address: 920 South Oyster Bay Rd, Bethpage

Weather: (AM) Sunny Rainfall: (AM) — Inches
(PM) Sunny (PM) — Inches

Temperature: (AM) 80 °F Wind Speed: (AM) — MPH Wind Direction: (AM) —
(PM) 85 °F (PM) — MPH (PM) —

Site Condition: Dry

Personnel On Site:	Name	Affiliation	Arrival Time	Departure Time
	<u>M. Volz</u>	<u>D+B</u>	<u>1:05PM</u>	<u>3:20PM</u>
	<u>E. Kitt</u>	<u>D+B</u>	<u>1:00PM</u>	<u>3:00PM</u>
	<u>A. Postyn</u>	<u>GAC</u>	<u>1:20PM</u>	<u>—</u>
	<u>L. Walkki</u>	<u>Tyree</u>	<u>—</u>	<u>3:00PM</u>
	<u>J. Chofito</u>	<u>Tyree</u>	<u>—</u>	<u>3:15PM</u>
	<u>D. Bonavise</u>	<u>Tyree</u>	<u>—</u>	<u>3:15PM</u>
	<u>A. Bonvilla</u>	<u>AB Oil Services</u>	<u>—</u>	<u>1:40PM</u>
	<u>M. Mangino</u>	<u>NCDH</u>	<u>2:00PM</u>	<u>2:30PM</u>
	_____	_____	_____	_____
	_____	_____	_____	_____
	_____	_____	_____	_____
	_____	_____	_____	_____
	_____	_____	_____	_____

Subcontractor Work Commencement: (AM) — (PM) NA

Subcontractor Work Completion: (AM) NA (PM) 3:05PM

DB-DFAR

DAILY FIELD ACTIVITY REPORT

General work performed today by D&B: Oversee excavation of hydraulic oil UST and associated hydraulic lifts; Inspected and screened soil for contamination; Collected endpoint soil samples from excavation for hydraulic oil UST and western hydraulic lift

List specific inspection(s) performed and results (include problems and corrective actions):

NA

List type and location of tests performed and results (include equipment used and monitoring results):

Air monitoring for total organic vapors with OVA FID

Verbal comments received from subcontractor (include construction and testing problems, and recommendations/resulting action):

NA

Prepared by: M. Volz Reviewed by: _____

DAILY FIELD ACTIVITY REPORT

Work performed today by subcontractor(s) (includes equipment and labor breakdown):

Tyree

- Broke up concrete to access underlying soil.
- Excavated soil around the hydraulic oil UST and its two associated hydraulic IFTs
- Removed hydraulic oil UST and its two associated hydraulic IFTs using a backhoe
- Used backhoe to obtain endpoint samples
- Backfilled excavations with overburden soil once the endpoint samples were collected

AB Oil Services

- Used vacuum truck to empty contents of hydraulic oil UST and its two associated hydraulic IFTs



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DAILY FIELD ACTIVITY REPORT

Report Number: _____ Project Number: 1167-JJ Date: 6/28/96

Field Log Book Page Number: pp.

Project: GAC Plant 114 Phase II EA.

Address: S. Oyster Bay Rd.

Weather: (AM) Sunny Rainfall: (AM) 0 Inches
(PM) " (PM) " Inches

Temperature: (AM) 70's °F Wind Speed: (AM) 0-10 MPH Wind Direction: (AM) W
(PM) 80's °F (PM) " MPH (PM) "

Site Condition: Dry - interior of plant 114

Personnel On Site:	Name	Affiliation	Arrival Time	Departure Time
	Mark Rauber	D+B	8 ⁰⁰	3 ¹⁵
	John Eumington	Eumington Env.	8 ¹⁵	3 ⁰⁰
	Dennis Vigliotta	" "	8 ³⁰	3 ⁰⁰
	Errol Kitt	D+B	10 ⁰⁰	10 ³⁰
	Adam Postyn	GAC	8 ⁰⁰	8 ¹⁵

Subcontractor Work Commencement: (AM) 8⁴⁵ (PM) 12³⁰

Subcontractor Work Completion: (AM) 10⁴⁵ (PM) 3⁰⁰



DAILY FIELD ACTIVITY REPORT

General work performed today by D&B: observed the Contractor conduct soil borings @ plant
114 interior locations - Paint Room (PR-A) + Floor Drain (FD-A) utilizing a Geoprobe
soil boring system.

- Logged all soil samples, secured samples for lab analysis + completed all req'd field forms
- Conducted air monitoring activities, calibrated instruments

List specific inspection(s) performed and results (include problems and corrective actions):

NONE

List type and location of tests performed and results (include equipment used and monitoring results):

- Conducted air monitoring activities utilizing a Century 128 OVA (refer to days
air monitoring form for results)
- Conducted soil sample headspace reading utilizing a Century 128 OVA (refer to
days boring logs + sample Inb records for results)

Verbal comments received from subcontractor (include construction and testing problems, and recommendations/resulting action):

- Contractor did not want to continue boring @ benchhole FD-A
due to resistance + difficulty retrieve sample FD-105 (20'-22')

Prepared by: M. Plumber Reviewed by: _____

DAILY FIELD ACTIVITY REPORT

Work performed today by subcontractor(s) (includes equipment and labor breakdown):

~~Contractor~~ Contractor conducted geoprobe soil borings utilizing an Earthprobe 200 geoprobe sys w/ 1 1/2" ϕ sampler & dedicated 1 1/4" I.D. PETG sampler tubes as follows:

Location	Sample I.D.	Sample depth	Recovery	Pis readings (ppm)		Comments
				Peak	Steady	
Floor Drain	FD-A01	0-2'	1.8'	0.2	0.2	
	FD-A02	3'-7'	1.5'			
	FD-A03	10-12'	0.5'			Low recovery
	FD-A04	15'-17'	1.8'			
	FD-A05	20'-22'	1.5'			

Boring stopped due to difficult subsurface cond.

Paint Room	PR-A01	0-2'	1.8'	0.4	0.2	
	PR-A02	2'-4'	2.0'	2.0	0.4	
	PR-A03	4'-6'	0.8'	0.4	0.4	

Samples PR-A01 \rightarrow A03 secured for lab analysis

" FD-A01, A02 + A04 " " " " " Note: MMSD sample obtained from FD-A01

Contractor decontaminated all downhole eqpt prior + aft usage @ each loc. using an external steam wash + D.I. water rinse

Contractor secured all borings w/ soil & concrete patch

Appendix C



APPENDIX C

AIR MONITORING FORMS

◆1167\S0418601.DOC(R01)

AIR MONITORING FORM

PROJECT NAME: Grumman Plant 114 DATE: 4/18/96

PROJECT NUMBER: 1167-JJ-2 INSTRUMENT: MTIP

RECORDED BY: D. Obradovich CALIBRATION DATE: 4/18/96

WEATHER CONDITIONS: M. Sunny, windy

TIME	LOCATION	WIND SPEED AND DIRECTION	READING	OBSERVATIONS
8:30	MW-101	0-10 W	0.0 ppm	Ambient
9:30	↓	↓	↓	↓
10:30				
11:30				
1:00				
3:00				
4:00				

RECORDING PROCEDURES/REMARKS: _____

AMF

Appendix D



APPENDIX D

DAILY EQUIPMENT CALIBRATION LOGS

♣1167\S0418601.DOC(R01)

Appendix E



APPENDIX E

SAMPLE INFORMATION RECORDS

♣1167\S0418601.DOC(R01)



SAMPLE INFORMATION RECORD

SITE ATZ Bethpage - Plant 114 SAMPLE CREW M-Rambin
 SAMPLE LOCATION/WELLNO. ATLA (former gasoline tank/loading area)
 FIELD SAMPLE I.D. NUMBER ATLA03 (10'-12') DATE 4/23/96
 TIME 9⁵⁵ WEATHER Sunny-Breezy TEMPERATURE 70's

SAMPLE TYPE:

GROUNDWATER _____ SEDIMENT _____
 SURFACE WATER/STREAM _____ AIR _____
 SOIL OTHER (Describe, i.e., septage, leachate) _____

WELL INFORMATION (fill out for groundwater samples):

DEPTH TO WATER _____ MEASUREMENT METHOD _____
 DEPTH OF WELL _____ MEASUREMENT METHOD _____
 VOLUME REMOVED _____ REMOVAL METHOD _____

FIELD TEST RESULTS:

COLOR _____ pH _____ ODOR _____
 TEMPERATURE (°F) _____ SPECIFIC CONDUCTANCE (umhos/cm) _____
 OTHER (OVA, Methane meter, etc.) pid (Microtip) = 12.1 peak ppm
0.1 steady ppm

CONSTITUENTS SAMPLED:

STARS-Table 1 _____

REMARKS: Note: Sample selected due to elevated pin readings

GAL/FT	WELL CASING VOLUMES			
	1-1/4" = 0.977	2" = 0.16	3" = 0.37	4" = 0.65
1-1/2" = 0.10	2-1/2" = 0.24	3-1/2" = 0.50	6" = 1.46	

SIR



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SAMPLE INFORMATION RECORD

SITE GAC, Bethpage - Plant 114 SAMPLE CREW M. Rauber
 SAMPLE LOCATION/WELLNO. GTLA (former gasoline tank/loading area)
 FIELD SAMPLE I.D. NUMBER GT2A04 (15'-17') DATE 4/23/96
 TIME 10¹⁵ WEATHER Sunny, Breezy TEMPERATURE 70's

SAMPLE TYPE:

GROUNDWATER _____ SEDIMENT _____
 SURFACE WATER/STREAM _____ AIR _____
 SOIL OTHER (Describe, i.e., septage, leachate) _____

WELL INFORMATION (fill out for groundwater samples):

DEPTH TO WATER _____ MEASUREMENT METHOD _____
 DEPTH OF WELL _____ MEASUREMENT METHOD _____
 VOLUME REMOVED _____ REMOVAL METHOD _____

FIELD TEST RESULTS:

COLOR _____ pH _____ ODOR _____
 TEMPERATURE (°F) _____ SPECIFIC CONDUCTANCE (umhos/cm) _____
 OTHER (OVA, Methane meter, etc.) PIB Meter: 6-8 ppm peak
3.2 - steady

CONSTITUENTS SAMPLED:

STARS-Table 1

REMARKS: Note: sample selected due to PIB readings
& next sample interval after elevated
readings observed on the 10'-12' sample interval

GAL/FT	WELL CASING VOLUMES			
	1-1/4" = 0.077	2" = 0.16	3" = 0.37	4" = 0.65
1-1/2" = 0.10	2-1/2" = 0.24	3-1/2" = 0.50	6" = 1.46	

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SAMPLE INFORMATION RECORD

SITE GAC Bethpage, Plant 114 SAMPLE CREW M. Rumber

SAMPLE LOCATION/WELLNO. 61TLA

FIELD SAMPLE I.D. NUMBER 61TLA11 (51-52') DATE 4/23/96

TIME 4:30 WEATHER Sunny Breezy TEMPERATURE 70's

SAMPLE TYPE:

GROUNDWATER _____ SEDIMENT _____

SURFACE WATER/STREAM _____ AIR _____

SOIL OTHER (Describe, i.e., septage, leachate) _____

WELL INFORMATION (fill out for groundwater samples):

DEPTH TO WATER _____ MEASUREMENT METHOD _____

DEPTH OF WELL _____ MEASUREMENT METHOD _____

VOLUME REMOVED _____ REMOVAL METHOD _____

FIELD TEST RESULTS:

COLOR _____ pH _____ ODOR _____

TEMPERATURE (°F) _____ SPECIFIC CONDUCTANCE (umhos/cm) _____

OTHER (OVA, Methane meter, etc.) Pid readings : 3.4 peak + steady

CONSTITUENTS SAMPLED:

_____ STARS-Table 1 _____
_____ _____

REMARKS: Note: Sample selected due to closest proximity to gw interface

GAL/FT	WELL CASING VOLUMES				
	1-1/4" = 0.977	2" = 0.16	3" = 0.37	4" = 0.65	
1-1/2" = 0.10	2-1/2" = 0.24	3-1/2" = 0.50	6" = 1.46		

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SAMPLE INFORMATION RECORD

SITE GAC, Bethpage N.Y. - Plant 114 SAMPLE CREW M. Rauber
 SAMPLE LOCATION/WELLNO. SDSA (former sanitary disposal system)
 FIELD SAMPLE I.D. NUMBER SDSA01 (3'-5') DATE 4/24/96
 TIME 9⁰⁰ WEATHER Sunny - Breezy TEMPERATURE 52's

SAMPLE TYPE:

GROUNDWATER _____ SEDIMENT _____
 SURFACE WATER/STREAM _____ AIR _____
 SOIL X OTHER (Describe, i.e., septage, leachate) _____

WELL INFORMATION (fill out for groundwater samples):

DEPTH TO WATER _____ MEASUREMENT METHOD _____
 DEPTH OF WELL _____ MEASUREMENT METHOD _____
 VOLUME REMOVED _____ REMOVAL METHOD _____

FIELD TEST RESULTS:

COLOR _____ pH _____ ODOR _____
 TEMPERATURE (°F) _____ SPECIFIC CONDUCTANCE (umhos/cm) _____
 OTHER (OVA, Methane meter, etc.) PID readings: 3.5 ppm Peak
2.4 " Steady

CONSTITUENTS SAMPLED:

VOC's (Method 8240) PP Metals (Method 6010) Fingerprint (Method 310-13)
SVOC's (" 8270) TPMCS (" 418.1)

REMARKS: Note: (1) Sample selected (out of 9 samples) for lab analysis
due to elevated pin readings
(2) Low recovery of sample (only 0.2' in a geoprobe sampling tube)

		WELL CASING VOLUMES			
GAL/FT	1-1/4" = 0.077	2" = 0.16	3" = 0.37	4" = 0.65	
	1-1/2" = 0.10	2-1/2" = 0.24	3-1/2" = 0.50	6" = 1.46	

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SAMPLE INFORMATION RECORD

SITE GAC, Bethpage, N.Y. - Plant 114 SAMPLE CREW M. Rauber
 SAMPLE LOCATION/WELLNO. SDSA (former sanitary disposal system)
 FIELD SAMPLE I.D. NUMBER SDSA05 (23'-25') DATE 4/24/96
 TIME 9:50 WEATHER Sunny - breezy TEMPERATURE 58'S

SAMPLE TYPE:

GROUNDWATER _____ SEDIMENT _____
 SURFACE WATER/STREAM _____ AIR _____
 SOIL X OTHER (Describe, i.e., septage, leachate) _____

WELL INFORMATION (fill out for groundwater samples):

DEPTH TO WATER _____ MEASUREMENT METHOD _____
 DEPTH OF WELL _____ MEASUREMENT METHOD _____
 VOLUME REMOVED _____ REMOVAL METHOD _____

FIELD TEST RESULTS:

COLOR _____ pH _____ ODOR _____
 TEMPERATURE (°F) _____ SPECIFIC CONDUCTANCE (umhos/cm) _____
 OTHER (OVA, Methane meter, etc.) PIV readings : 2.1 Peak (ppm)
2.1 steady (")

CONSTITUENTS SAMPLED:

VOC's (method 8240) PP Metals (method 6010) Fingerprint (method 310-13)
SVOC's (" 8270) TPHC's (" 418-1)

REMARKS: Note: (1) Sample selected (out of 9 samples) for lab analysis due to elevated PIV readings
(2) Total recovery in sampler = 2.0'

GAL/FT	WELL CASING VOLUMES			
	1-1/4" = 0.977	2" = 0.16	3" = 0.37	4" = 0.63
1-1/2" = 0.10	2-1/2" = 0.24	3-1/2" = 0.50	6" = 1.46	

SIR



SAMPLE INFORMATION RECORD

SITE Gate, Bethpage, NY Plant 114 SAMPLE CREW M. Rumba
 SAMPLE LOCATION/WELLNO. SDSA (former onsite sanitary disposal sys.)
 FIELD SAMPLE I.D. NUMBER SDSA09 (43'-45') DATE 4/24/96
 TIME 2:00 WEATHER Sunny - Breezy TEMPERATURE 52.3

SAMPLE TYPE:

GROUNDWATER _____ SEDIMENT _____
 SURFACE WATER/STREAM _____ AIR _____
 SOIL X OTHER (Describe, i.e., septage, leachate) _____

WELL INFORMATION (fill out for groundwater samples):

DEPTH TO WATER _____ MEASUREMENT METHOD _____
 DEPTH OF WELL _____ MEASUREMENT METHOD _____
 VOLUME REMOVED _____ REMOVAL METHOD _____

FIELD TEST RESULTS:

COLOR _____ pH _____ ODOR _____
 TEMPERATURE (°F) _____ SPECIFIC CONDUCTANCE (umhos/cm) _____
 OTHER (OVA, Methane meter, etc.) PIIS readings : 0 ppm Peak
0 ppm Steady

CONSTITUENTS SAMPLED:

Voc's (method 8240) PP Metals (method 6010) Fingerprint (method 310-13)
SVOC's (" 8270) TPHC's (" 418.1)

REMARKS: Note: (1) Sample selected for lab analysis (out of 9 samples) due to closest proximity to GW interface

GAL/FT	WELL CASING VOLUMES			
	1-1/4" = 0.077	2" = 0.16	3" = 0.37	4" = 0.65
1-1/2" = 0.10	2-1/2" = 0.24	3-1/2" = 0.50	6" = 1.46	

SIR



SAMPLE INFORMATION RECORD

SITE GIAC, Bethpage, N.Y. Plant 114 SAMPLE CREW M. Rauben
 SAMPLE LOCATION/WELLNO. SDSB (former sanitary disposal system)
 FIELD SAMPLE I.D. NUMBER SDSB03 (13'-15') DATE 4/25/96
 TIME 9¹⁰ WEATHER Sunny - Pleasant TEMPERATURE upper 60's

SAMPLE TYPE:

GROUNDWATER _____ SEDIMENT _____
 SURFACE WATER/STREAM _____ AIR _____
 SOIL X OTHER (Describe, i.e., septage, leachate) _____

WELL INFORMATION (fill out for groundwater samples):

DEPTH TO WATER _____ MEASUREMENT METHOD _____
 DEPTH OF WELL _____ MEASUREMENT METHOD _____
 VOLUME REMOVED _____ REMOVAL METHOD _____

FIELD TEST RESULTS:

COLOR _____ pH _____ ODOR _____
 TEMPERATURE (°F) _____ SPECIFIC CONDUCTANCE (umhos/cm) _____
 OTHER (OVA, Methane meter, etc.) Pib (microtip) readings: 2.8 ppm Peak
1.4 ppm steady

CONSTITUENTS SAMPLED:

VOC's (Method 8240) PF Metals (Method 6010) Fingerprint (Method 310-13)
SVOC's (Method 8270) TPHC's (Method 410.1)

REMARKS: (1) Sample selected for lab analysis due to initial increase in Pib readings
(2) Low recovery of sample

GAL/FT	WELL CASING VOLUMES			
	1-1/4" = 0.077	2" = 0.16	3" = 0.37	4" = 0.65
1-1/2" = 0.10	2-1/2" = 0.24	3-1/2" = 0.50	6" = 1.46	

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SAMPLE INFORMATION RECORD

SITE GAC, Bethpage, N.Y. - plant 114 SAMPLE CREW M. Rauber
 SAMPLE LOCATION/WELLNO. SDSB (former sanitary disposal system)
 FIELD SAMPLE I.D. NUMBER SDSB04 (18'-20') DATE 4/25/96
 TIME 9²⁰ WEATHER Sunny - Pleasant TEMPERATURE Mid 60's

SAMPLE TYPE:

GROUNDWATER _____ SEDIMENT _____
 SURFACE WATER/STREAM _____ AIR _____
 SOIL X OTHER (Describe, i.e., septage, leachate) _____

WELL INFORMATION (fill out for groundwater samples):

DEPTH TO WATER _____ MEASUREMENT METHOD _____
 DEPTH OF WELL _____ MEASUREMENT METHOD _____
 VOLUME REMOVED _____ REMOVAL METHOD _____

FIELD TEST RESULTS:

COLOR _____ pH _____ ODOR _____
 TEMPERATURE (°F) _____ SPECIFIC CONDUCTANCE (umhos/cm) _____
 OTHER (OVA, Methane meter, etc.) PID (Microtip) readings: 2.9 ppm peak
1.7 " steady

CONSTITUENTS SAMPLED:

Voc's (method 8240) PP Metals (method 6010) Fingerprint (method 310-13)
SVoc's (" 8270) TPHC's (" 418.1)

REMARKS: ① Sample selected for lab analysis due to "next" sample interval characteristics

GAL/FT	WELL CASING VOLUMES				
	1-1/4" = 0.077	2" = 0.16	3" = 0.37	4" = 0.65	
1-1/2" = 0.10	2-1/2" = 0.24	3-1/2" = 0.50	6" = 1.46		

SIR



SAMPLE INFORMATION RECORD

SITE GAC, Bethpage, N.Y. - Plant 114 SAMPLE CREW M. Raub
 SAMPLE LOCATION/WELLNO. SDSB (former sanitary disposal system)
 FIELD SAMPLE I.D. NUMBER SDSB11 (51'-53') DATE 4/25/96
 TIME 4:30 WEATHER Sunny - pleasant TEMPERATURE Mid 60's

SAMPLE TYPE:

GROUNDWATER _____ SEDIMENT _____
 SURFACE WATER/STREAM _____ AIR _____
 SOIL X OTHER (Describe, i.e., septage, leachate) _____

WELL INFORMATION (fill out for groundwater samples):

DEPTH TO WATER _____ MEASUREMENT METHOD _____
 DEPTH OF WELL _____ MEASUREMENT METHOD _____
 VOLUME REMOVED _____ REMOVAL METHOD _____

FIELD TEST RESULTS:

COLOR _____ pH _____ ODOR _____
 TEMPERATURE (°F) _____ SPECIFIC CONDUCTANCE (umhos/cm) _____
 OTHER (OVA, Methane meter, etc.) pid (Microtip) readings: 3.6 ppm peak } maybe due to moisture
3.6 ppm steady }

CONSTITUENTS SAMPLED:

Voc's (Method 8240) PP Metals (Method 6010) Fingerprint (Method 310-13)
SVoc's (Method 8270) TPHC's (" 418.1)

REMARKS: (1) Sample selected for lab analysis due to closest sample interval to gw interface

GAL/FT	WELL CASING VOLUMES			
	1-1/4" = 0.077	2" = 0.16	3" = 0.37	4" = 0.65
1-1/2" = 0.10	2-1/2" = 0.24	3-1/2" = 0.50	6" = 1.46	

SIR



SAMPLE INFORMATION RECORD

SITE Grumman Plant 114 SAMPLE CREW D. Obradovich
SAMPLE LOCATION/WELLNO. Monitoring well MW-101
FIELD SAMPLE I.D. NUMBER MW-101 DATE 5/6/96
TIME 1200 WEATHER Overcast TEMPERATURE 55°

SAMPLE TYPE:

GROUNDWATER [checked] SEDIMENT
SURFACE WATER/STREAM AIR
SOIL OTHER (Describe, i.e., septage, leachate)

WELL INFORMATION (fill out for groundwater samples):

DEPTH TO WATER 64.07 MEASUREMENT METHOD water level meter
DEPTH OF WELL 75.00 MEASUREMENT METHOD
VOLUME REMOVED 6 gals. REMOVAL METHOD Disposable polyethylene bailer

FIELD TEST RESULTS:

COLOR Brown pH 5.93 ODOR none
TEMPERATURE (°F) 11.4 °C SPECIFIC CONDUCTANCE (umhos/cm) 157
OTHER (OVA, Methane meter, etc.) Silty groundwater - turbid, eh = 46.3 mV
Turbidity >1000

CONSTITUENTS SAMPLED:

VOCs (8240)
SVOCs (8270)
P.P. Metals (6010) filtered + unfiltered
Stars Table 1 (8021)

REMARKS:

Table with 5 columns: GAL/FT, 1-1/4", 1-1/2", WELL CASING VOLUMES, 2", 2-1/2", 3", 3-1/2", 4", 6".

SIR



SAMPLE INFORMATION RECORD

SITE Grumman-Plant 114 SAMPLE CREW D. Obradovich

SAMPLE LOCATION/WELLNO. Monitoring well S10 MW-1

FIELD SAMPLE I.D. NUMBER S10 MW-1 DATE 5/6/96

TIME 2⁰⁰ WEATHER Overcast TEMPERATURE 55°

SAMPLE TYPE:

GROUNDWATER SEDIMENT

SURFACE WATER/STREAM AIR

SOIL OTHER (Describe, i.e., septage, leachate)

WELL INFORMATION (fill out for groundwater samples):

DEPTH TO WATER 65.36 MEASUREMENT METHOD Water Level Meter

DEPTH OF WELL 70.20 MEASUREMENT METHOD " " "

VOLUME REMOVED 6 gals REMOVAL METHOD Disposable polyethylene bailer

FIELD TEST RESULTS:

COLOR Brown-red pH 4.86 ODOR none

TEMPERATURE (°F) 11.3 °C SPECIFIC CONDUCTANCE (umhos/cm) 513

OTHER (OVA, Methane meter, etc.) silty-turbid g.w., eh = 113.1 mV
Turbidity = >1000 NTUs

CONSTITUENTS SAMPLED:

VOCs (8240)
SVOCs (8270) Stars Table 1 (8021)
P.P. Metals (6010) Unfiltered & filtered

REMARKS: _____

GAL/FT	WELL CASING VOLUMES			
	1-1/4" = 0.977	2" = 0.16	3" = 0.37	4" = 0.65
1-1/2" = 0.10	2-1/2" = 0.24	3-1/2" = 0.50	6" = 1.46	

SIR



SAMPLE INFORMATION RECORD

SITE Grumman Plant 114 SAMPLE CREW D. Obradovich
 SAMPLE LOCATION/WELLNO. Monitoring Well MW-102
 FIELD SAMPLE I.D. NUMBER MW-102 DATE 5/6/96
 TIME 3:45 WEATHER Overcast TEMPERATURE 55°

SAMPLE TYPE:

GROUNDWATER SEDIMENT _____
 SURFACE WATER/STREAM _____ AIR _____
 SOIL _____ OTHER (Describe, i.e., septage, leachate) _____

WELL INFORMATION (fill out for groundwater samples):

DEPTH TO WATER 65.04 MEASUREMENT METHOD Water Level Meter
 DEPTH OF WELL 75.0 MEASUREMENT METHOD " " "
 VOLUME REMOVED 7-8 gals. REMOVAL METHOD Disposable polyethylene bailer

FIELD TEST RESULTS:

COLOR Brown pH 6.23 ODOR none

TEMPERATURE (°F) 10.8 °C SPECIFIC CONDUCTANCE (umhos/cm) _____

OTHER (OVA, Methane meter, etc.) Silty-turbid g.w. eh =
Turbidity = >1000 NTUs

CONSTITUENTS SAMPLED: SVOCs (8220)
VOCs (8240) stays Table 1 (8021)
P.P. Metals (6010) Unfiltered & Filtered

REMARKS: * collected ms/msd samples here
4 field blank " " (FB)

GAL/FT	WELL CASING VOLUMES			
	1-1/4" = 0.977	2" = 0.16	3" = 0.37	4" = 0.65
1-1/2" = 0.10	2-1/2" = 0.24	3-1/2" = 0.50	6" = 1.46	

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SAMPLE INFORMATION RECORD

SITE Grumman Plant 114 SAMPLE CREW M. Volz
 SAMPLE LOCATION/WELLNO. Hydraulic Oil UST Excavation
 FIELD SAMPLE I.D. NUMBER UST HOB DATE 6/24/96
 TIME 2:30PM WEATHER Sunny TEMPERATURE 85°F

SAMPLE TYPE:

GROUNDWATER _____ SEDIMENT _____
 SURFACE WATER/STREAM _____ AIR _____
 SOIL OTHER (Describe, i.e., septage, leachate) _____

WELL INFORMATION (fill out for groundwater samples):

DEPTH TO WATER _____ MEASUREMENT METHOD _____
 DEPTH OF WELL _____ MEASUREMENT METHOD _____
 VOLUME REMOVED _____ REMOVAL METHOD _____

FIELD TEST RESULTS:

COLOR _____ pH _____ ODOR _____
 TEMPERATURE (°F) _____ SPECIFIC CONDUCTANCE (umbos/cm) _____
 OTHER (OVA, Methane meter, etc.) FID (OVA) Reading Back: 0.0 ppm
 Reading: 0.0 ppm

CONSTITUENTS SAMPLED:

STARS Table 2 compounds

REMARKS: Sample taken from bottom of hydraulic oil UST excavation

GAL/FT	WELL CASING VOLUMES			
	1-1/4" = 0.077 1-1/2" = 0.10	2" = 0.16 2-1/2" = 0.24	3" = 0.37 3-1/2" = 0.50	4" = 0.65 6" = 1.46

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SAMPLE INFORMATION RECORD

SITE Gramman Plant 114 SAMPLE CREW M. Voltz
 SAMPLE LOCATION/WELLNO. Hydraulic Oil UST Excavation
 FIELD SAMPLE I.D. NUMBER USTOSE DATE 6/24/96
 TIME 2:30 PM WEATHER Sunny TEMPERATURE 85°F

SAMPLE TYPE:

GROUNDWATER _____ SEDIMENT _____
 SURFACE WATER/STREAM _____ AIR _____
 SOIL _____ OTHER (Describe, i.e., septage, leachate) _____

WELL INFORMATION (fill out for groundwater samples):

DEPTH TO WATER _____ MEASUREMENT METHOD _____
 DEPTH OF WELL _____ MEASUREMENT METHOD _____
 VOLUME REMOVED _____ REMOVAL METHOD _____

FIELD TEST RESULTS:

COLOR _____ pH _____ ODOR _____
 TEMPERATURE (°F) _____ SPECIFIC CONDUCTANCE (umbos/cm) _____
 OTHER (OVA, Methane meter, etc.) ETD (OVA) Reading Back: 0.0ppm
Reading: 0.0ppm

CONSTITUENTS SAMPLED:

STARS Table 2 compounds _____

REMARKS: Sample taken as composite of hydraulic oil
UST excavation south and east sidewalls

GAL/FT	WELL CASING VOLUMES				
	1-1/4" = 0.077	2" = 0.16	3" = 0.37	4" = 0.65	
1-1/2" = 0.10	2-1/2" = 0.24	3-1/2" = 0.50	6" = 1.46		

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SAMPLE INFORMATION RECORD

SITE Grumman Plant 114 SAMPLE CREW M. Volz
 SAMPLE LOCATION/WELLNO. Hydraulic Oil UST Excavation
 FIELD SAMPLE I.D. NUMBER USTONW DATE 6/24/96
 TIME 2:30PM WEATHER Sunny TEMPERATURE 85°F

SAMPLE TYPE:

GROUNDWATER _____ SEDIMENT _____
 SURFACE WATER/STREAM _____ AIR _____
 SOIL OTHER (Describe, i.e., septage, leachate) _____

WELL INFORMATION (fill out for groundwater samples):

DEPTH TO WATER _____ MEASUREMENT METHOD _____
 DEPTH OF WELL _____ MEASUREMENT METHOD _____
 VOLUME REMOVED _____ REMOVAL METHOD _____

FIELD TEST RESULTS:

COLOR _____ pH _____ ODOR _____
 TEMPERATURE (°F) _____ SPECIFIC CONDUCTANCE (umhos/cm) _____
 OTHER (OVA, Methane meter, etc.) EID (OVA) Reading Back : 0.0 ppm
Reading : 0.0 ppm

CONSTITUENTS SAMPLED:

STARS Table 2 compounds

REMARKS: Sample taken as composite sample of hydraulic oil
UST excavation north and west sidewalls

GAL/FT	WELL CASING VOLUMES				
	1-1/4" = 0.077	2" = 0.16	3" = 0.37	4" = 0.65	
1-1/2" = 0.10	2-1/2" = 0.24	3-1/2" = 0.50	6" = 1.46		

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SAMPLE INFORMATION RECORD

SITE Gramman Plant 114 SAMPLE CREW M. Volz

SAMPLE LOCATION/WELLNO. Hydraulic Lift Excavation

FIELD SAMPLE I.D. NUMBER USTLCS DATE 6/24/96

TIME 3:00PM WEATHER Sunny TEMPERATURE 85°F

SAMPLE TYPE:

GROUNDWATER _____ SEDIMENT _____

SURFACE WATER/STREAM _____ AIR _____

SOIL OTHER (Describe, i.e., septage, leachate) _____

WELL INFORMATION (fill out for groundwater samples):

DEPTH TO WATER _____ MEASUREMENT METHOD _____

DEPTH OF WELL _____ MEASUREMENT METHOD _____

VOLUME REMOVED _____ REMOVAL METHOD _____

FIELD TEST RESULTS:

COLOR _____ pH _____ ODOR _____

TEMPERATURE (°F) _____ SPECIFIC CONDUCTANCE (umhos/cm) _____

OTHER (OVA, Methane meter, etc.) FID (OVA) Reading Back : 0.0 ppm
Reading : 0.0 ppm

CONSTITUENTS SAMPLED:

STARS Table 2 compounds

REMARKS: Sample taken as composite of of western hydraulic lift excavation sidewalls

GAL/FT	WELL CASING VOLUMES			
	1-1/4" = 0.077	2" = 0.16	3" = 0.37	4" = 0.65
1-1/2" = 0.10	2-1/2" = 0.24	3-1/2" = 0.50	6" = 1.46	

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SAMPLE INFORMATION RECORD

SITE GC - Plant 114 SAMPLE CREW M. Pamben

SAMPLE LOCATION/WELLNO. FD-A

FIELD SAMPLE I.D. NUMBER FD-A01 (0-2') DATE 6/28/96

TIME 9:35 WEATHER Sunny TEMPERATURE Mid 70's

SAMPLE TYPE:

GROUNDWATER _____ SEDIMENT _____

SURFACE WATER/STREAM _____ AIR _____

SOIL X OTHER (Describe, i.e., septage, leachate) _____

WELL INFORMATION (fill out for groundwater samples):

DEPTH TO WATER _____ MEASUREMENT METHOD _____

DEPTH OF WELL _____ MEASUREMENT METHOD _____

VOLUME REMOVED _____ REMOVAL METHOD _____

FIELD TEST RESULTS:

COLOR Brown/Tan pH _____ ODOR NONE

TEMPERATURE (°F) _____ SPECIFIC CONDUCTANCE (umhos/cm) _____

OTHER (OVA, Methane meter, etc.) OVA readings : 0.2 ppm peak + steady

CONSTITUENTS SAMPLED:

Voc's (method 8240) PPAetals (method 6010) Fingerprint (method 310-13)
SVoc's (" 8270) TPHC (" 418.1)

REMARKS: _____

GAL/FT	WELL CASING VOLUMES			
	1-1/4" = 0.077 1-1/2" = 0.10	2" = 0.16 2-1/2" = 0.24	3" = 0.37 3-1/2" = 0.50	4" = 0.65 6" = 1.46

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SAMPLE INFORMATION RECORD

SITE ARC - plant 11A SAMPLE CREW M. Parker

SAMPLE LOCATION/WELLNO. MSMSD

FIELD SAMPLE I.D. NUMBER MSMSD DATE 6/20/96

TIME 9:15 WEATHER Sunny TEMPERATURE Min 70's

SAMPLE TYPE:

GROUNDWATER _____ SEDIMENT _____

SURFACE WATER/STREAM _____ AIR _____

SOIL X OTHER (Describe, i.e., septage, leachate) _____

WELL INFORMATION (fill out for groundwater samples):

DEPTH TO WATER _____ MEASUREMENT METHOD _____

DEPTH OF WELL _____ MEASUREMENT METHOD _____

VOLUME REMOVED _____ REMOVAL METHOD _____

FIELD TEST RESULTS:

COLOR Brown / Tan pH _____ ODOR NONE

TEMPERATURE (°F) _____ SPECIFIC CONDUCTANCE (umhos/cm) _____

OTHER (OVA, Methane meter, etc.) _____

CONSTITUENTS SAMPLED:

Voc's (Method 8240) PP Metals (Method 6010) Fingerprint (Method 310-13)

Svoc's (" 8270) TPHC (Method 418.1) _____

REMARKS: Sample selected from soil sample collected

① FD-A01 (0-2')

GAL/FT	WELL CASING VOLUMES			
	1-1/4" = 0.077	2" = 0.16	3" = 0.37	4" = 0.65
1-1/2" = 0.10	2-1/2" = 0.24	3-1/2" = 0.50	6" = 1.46	

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SAMPLE INFORMATION RECORD

SITE Gas-plant 114 SAMPLE CREW M. Neuber

SAMPLE LOCATION/WELLNO. FD-A

FIELD SAMPLE I.D. NUMBER FD-A02 (5'-7') DATE 6/28/96

TIME 9:45 WEATHER Sunny TEMPERATURE MID-70's

SAMPLE TYPE:

GROUNDWATER _____ SEDIMENT _____

SURFACE WATER/STREAM _____ AIR _____

SOIL X OTHER (Describe, i.e., septage, leachate) _____

WELL INFORMATION (fill out for groundwater samples):

DEPTH TO WATER _____ MEASUREMENT METHOD _____

DEPTH OF WELL _____ MEASUREMENT METHOD _____

VOLUME REMOVED _____ REMOVAL METHOD _____

FIELD TEST RESULTS:

COLOR Brown/Tan pH _____ ODOR None

TEMPERATURE (°F) _____ SPECIFIC CONDUCTANCE (umhos/cm) _____

OTHER (OVA, Methane meter, etc.) OVA readings: 0.2 ppm peak & steady

CONSTITUENTS SAMPLED:

Voc's (Method 8240) PPAetals (Method 6010) Freignent (Method 310-13)
SVoc's (" 8270) TPUL (" 418.1)

REMARKS: _____

WELL CASING VOLUMES				
GAL/FT	1-1/4" = 0.977	2" = 0.16	3" = 0.37	4" = 0.65
	1-1/2" = 0.10	2-1/2" = 0.24	3-1/2" = 0.50	6" = 1.46

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SAMPLE INFORMATION RECORD

SITE AK - Plant 114 SAMPLE CREW M. Reuber

SAMPLE LOCATION/WELLNO. FD-A

FIELD SAMPLE I.D. NUMBER FD-A04 (15'-17') DATE 6/28/96

TIME 10³⁰ WEATHER Sunny TEMPERATURE MID 70's

SAMPLE TYPE:

GROUNDWATER _____ SEDIMENT _____

SURFACE WATER/STREAM _____ AIR _____

SOIL X OTHER (Describe, i.e., seepage, leachate) _____

WELL INFORMATION (fill out for groundwater samples):

DEPTH TO WATER _____ MEASUREMENT METHOD _____

DEPTH OF WELL _____ MEASUREMENT METHOD _____

VOLUME REMOVED _____ REMOVAL METHOD _____

FIELD TEST RESULTS:

COLOR Brown/Tan pH _____ ODOR NONE

TEMPERATURE (°F) _____ SPECIFIC CONDUCTANCE (umhos/cm) _____

OTHER (OVA, Methane meter, etc.) OVA readings : 0.2 ppm peak & steady

CONSTITUENTS SAMPLED:

VOC's (Method 8240) PP Metals (Method 6010) Fingerprint (Method 310-13)
SVOC's (" 8270) TPHC (" 418.1)

REMARKS: _____

WELL CASING VOLUMES				
GAL/FT	1-1/4" = 0.077	2" = 0.16	3" = 0.37	4" = 0.65
	1-1/2" = 0.10	2-1/2" = 0.24	3-1/2" = 0.50	6" = 1.46

SIR



DVIRKA
AND
BARTILUCCI

SAMPLE INFORMATION RECORD

SITE GAC-Plant 114 SAMPLE CREW M. Rauber

SAMPLE LOCATION/WELLNO. PR-A

FIELD SAMPLE I.D. NUMBER PR-A01 (0-2') DATE 6/28/96

TIME 9³⁰ WEATHER Sunny, breezy TEMPERATURE Min 70's

SAMPLE TYPE:

GROUNDWATER _____ SEDIMENT _____

SURFACE WATER/STREAM _____ AIR _____

SOIL X OTHER (Describe, i.e., septage, leachate) _____

WELL INFORMATION (fill out for groundwater samples):

DEPTH TO WATER _____ MEASUREMENT METHOD _____

DEPTH OF WELL _____ MEASUREMENT METHOD _____

VOLUME REMOVED 1 1/2' & 2 1/2' REMOVAL METHOD Grout System

FIELD TEST RESULTS:

COLOR Brown/Tan pH _____ ODOR None

TEMPERATURE (°F) _____ SPECIFIC CONDUCTANCE (umhos/cm) _____

OTHER (OVA, Methane meter, etc.) IVA Headspace reading: 0.4 ppm peak
0.2 " steady

CONSTITUENTS SAMPLED:

Voc's (Method 8240) PP Aetals (Method 6010) _____
SVoc's (" 8270) _____

REMARKS: _____

GAL/FT	WELL CASING VOLUMES			
	1-1/4" = 0.077	2" = 0.16	3" = 0.37	4" = 0.65
1-1/2" = 0.10	2-1/2" = 0.24	3-1/2" = 0.50	6" = 1.46	

SIR



DVIRKA
AND
BARTILUCCI

SAMPLE INFORMATION RECORD

SITE GAc - Plant 114 SAMPLE CREW M. Reuby

SAMPLE LOCATION/WELLNO. PR-A

FIELD SAMPLE I.D. NUMBER PR-A02 (2'-4') DATE 6/28/96

TIME 10⁰⁰ WEATHER Sunny Breezy TEMPERATURE Mis 70's

SAMPLE TYPE:

GROUNDWATER _____ SEDIMENT _____

SURFACE WATER/STREAM _____ AIR _____

SOIL X OTHER (Describe, i.e., septage, leachate) _____

WELL INFORMATION (fill out for groundwater samples):

DEPTH TO WATER _____ MEASUREMENT METHOD _____

DEPTH OF WELL _____ MEASUREMENT METHOD _____

VOLUME REMOVED _____ REMOVAL METHOD _____

FIELD TEST RESULTS:

COLOR Brown/Tan pH _____ ODOR NONE

TEMPERATURE (°F) _____ SPECIFIC CONDUCTANCE (umhos/cm) _____

OTHER (OVA, Methane meter, etc.) OVA headspace reading: 2.0 ppm peak
0.4 " Steady

CONSTITUENTS SAMPLED:

Voc's (method 8240) PP Metals (method 6010) _____
Sloc's (" 8270) _____

REMARKS: _____

WELL CASING VOLUMES

GAL/FT	1-1/4" = 0.977	2" = 0.16	3" = 0.37	4" = 0.65
	1-1/2" = 0.10	2-1/2" = 0.24	3-1/2" = 0.50	6" = 1.46

SIR

SAMPLE INFORMATION RECORD

SITE Arc- plant 114 SAMPLE CREW M. Pauer

SAMPLE LOCATION/WELLNO. PR-A

FIELD SAMPLE I.D. NUMBER PR-A03 (4'-6') DATE 6/21/96

TIME 10:45 WEATHER Sunny TEMPERATURE Mid-70s

SAMPLE TYPE:

GROUNDWATER _____ SEDIMENT _____

SURFACE WATER/STREAM _____ AIR _____

SOIL X OTHER (Describe, i.e., septage, leachate) _____

WELL INFORMATION (fill out for groundwater samples):

DEPTH TO WATER _____ MEASUREMENT METHOD _____

DEPTH OF WELL _____ MEASUREMENT METHOD _____

VOLUME REMOVED _____ REMOVAL METHOD _____

FIELD TEST RESULTS:

COLOR gray Tan pH _____ ODOR None

TEMPERATURE (°F) _____ SPECIFIC CONDUCTANCE (umhos/cm) _____

OTHER (OVA, Methane meter, etc.) OVA readings (headspace) : 0.4 ppm peak + steady

CONSTITUENTS SAMPLED:

Voc's (Method 8240) PP Petzls (Method 6010) _____
Svoc's (" 8270) _____

REMARKS: _____

GAL/FT	WELL CASING VOLUMES			
	1-1/4" = 0.077	2" = 0.16	3" = 0.37	4" = 0.65
1-1/2" = 0.10	2-1/2" = 0.24	3-1/2" = 0.50	6" = 1.46	

SIR



DVIRKA
AND
BARTILUCCI

SAMPLE INFORMATION RECORD

SITE At - Plant 114 SAMPLE CREW M. Rauber
 SAMPLE LOCATION/WELLNO. Field Blank
 FIELD SAMPLE I.D. NUMBER FLDBLK DATE 6/28/94
 TIME 1⁰⁰ WEATHER Sunny TEMPERATURE HOBO's

SAMPLE TYPE:

GROUNDWATER _____ SEDIMENT _____
 SURFACE WATER/STREAM _____ AIR _____
 SOIL _____ OTHER (Describe, i.e., septage, leachate) DL water for field blank

WELL INFORMATION (fill out for groundwater samples):

DEPTH TO WATER _____ MEASUREMENT METHOD _____
 DEPTH OF WELL _____ MEASUREMENT METHOD _____
 VOLUME REMOVED _____ REMOVAL METHOD _____

FIELD TEST RESULTS:

COLOR _____ pH _____ ODOR _____
 TEMPERATURE (°F) _____ SPECIFIC CONDUCTANCE (umhos/cm) _____
 OTHER (OVA, Methane meter, etc.) _____

CONSTITUENTS SAMPLED:

Voc's (Method 8240) PPmetals (Method 6010) Fingerprint (Method 310-13)
Svoc's (" 8270) TPHC (" 418.1)

REMARKS: _____

WELL CASING VOLUMES				
GAL/FT	1-1/4" = 0.077	2" = 0.16	3" = 0.37	4" = 0.65
	1-1/2" = 0.10	2-1/2" = 0.24	3-1/2" = 0.50	6" = 1.46

SIR

Appendix F



APPENDIX F

BORING LOGS

▲1167\S0418601.DOC(R01)

BORING LOG



**DVIRKA
AND
BARTILUCCI**

Project No.: 1167-JJ
Project Name: GAC Re-thruff
Plot 114

Well/Boring No.: 6TLA
Sheet 1 of 6
By: ML Date: 4/23/96
Chk'd: _____ Date: _____

Drilling Contractor: Ewingston Fw.

Driller: Wally Rowland

Geologist: M. Rowan

Borehole Completion Depth: 60'

Drill Rig: Earthquake

Drilling Method: Open

Borehole Diameter: 1 1/2"

Sample Spoon I.D.: 1 1/2"

Drive Hammer Wt.: 7

Ground Surface El.: 0

Date Started: 4/23/96

Date Completed: 4/23/96

DEPTH (FT.)	SAMPLE NO.	SAMPLING INTERVAL	RECOVERY/ RQD	BLOWS/6"	HEADSPACE (PPM)	SAMPLE DESCRIPTION
-0-					(P10)	LT. Br. fm ² SAND, tr. silt, some fm ² c subnd gte gravel, moist
-1-	<u>6TLA01</u>	<u>0-2'</u>	<u>1</u>	<u>1</u>	<u>3.1</u> <u>pts</u>	
-2-						
-3-						
-4-						
-5-						
-6-	<u>6TLA02</u>	<u>5'-7'</u>	<u>0.9'</u>	<u>1</u>	<u>10.1 P</u> <u>3.15</u>	<u>2-0.9' = SAA</u> <u>0.9' log of br. blk. material</u> <u>1'</u>
-7-						
-8-						
-9-						
-10-						

Remarks:

Water Level Measurement

_____ Date _____
_____ Date _____
_____ Date _____
_____ Date _____

BL

BORING LOG



Project No.: <u>1167-JT</u>	Well/Boring No.: <u>ATLA</u>
Project Name: <u>GAZ Refinery</u> <u>Plant 114</u>	Sheet <u>2</u> of <u>6</u>
	By: <u>ML</u> Date: <u>4/23/96</u>
	Chk'd: _____ Date: _____

Drilling Contractor: <u>Emmings Env.</u>	Borehole Completion Depth: <u>60'</u>
Driller: <u>Willy Rowland</u>	Geologist: <u>M. Puzos</u>
Drill Rig: <u>Fault probe</u>	Drilling Method: <u>Ceiprobe</u>
Sample Spoon I.D.: <u>1 1/4"</u>	Drive Hammer Wt.: <u>10</u>
Date Started: <u>4/23/96</u>	Date Completed: <u>4/23/96</u>
	Borehole Diameter: <u>1 1/2"</u>
	Ground Surface El.: <u>0</u>

DEPTH (FT.)	SAMPLE NO.	SAMPLING INTERVAL	RECOVERY/RQD	BLOWS/6"	HEADSPACE (PPM)	SAMPLE DESCRIPTION
1-0	*				<u>PRO</u>	0-0.5' = SAA
1-1	<u>GTABA</u>	<u>10'-12'</u>	<u>1.5'</u>	<u>-</u>	<u>12-1-P</u> <u>8-1-S</u>	0.5'-1.0' = blk. asphalt material 1.0'-1.5' = SAA for 0-0.5'
1-2						
1-3						
1-4						
1-5	*				<u>6.4 P</u>	0-2.0' = lt. br. fmc SAND. some fmc subgrd
1-6	<u>GTABA</u>	<u>15'-17'</u>	<u>2.0'</u>	<u>-</u>	<u>3.2 S</u>	gta gravel, tr. silt, moist
1-7						
1-8						
1-9						
1-10						

Remarks: * Sample selected for lab analysis for STARS Table 1 due to elevated PRO reading of next sample interval, respectively	Water Level Measurement _____ Date _____ _____ Date _____ _____ Date _____ _____ Date _____
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BORING LOG



**DVIRKA
AND
BARTILUCCI**

Project No.: 1167-JJ
Project Name: AK - 32th Prec
Plot 114

Well/Boring No.: ATLA
Sheet 3 of 6
By: MR Date: 4/23/96
Chk'd: _____ Date: _____

Drilling Contractor: Evumy to Env
Driller: Wally Rowland Geologist: M. Rubin
Drill Rig: Earth probe Drilling Method: Gas probe
Sample Spoon I.D.: 1 1/4" Drive Hammer Wt.: _____
Date Started: 4/23/96 Date Completed: 4/23/96

Borehole Completion Depth: 00'
Borehole Diameter: 1 1/2"
Ground Surface El.: 0

DEPTH (FT.)	SAMPLE NO.	SAMPLING INTERVAL	RECOVERY/RQD	BLOWS/6"	HEADSPACE (PPM)	SAMPLE DESCRIPTION
20-						
21-	ATLAD05	20'-22'	0.8'	-	<u>5.9 P</u> <u>5.3 S</u>	0-0.8' : Lth Br. / tan fine SAND, little fine submed gr. gravel, tr. silt, moist
22-						
23-						
24-						
25-						
26-	ATLAD06	25'-27'	1.1'	-	<u>5.3 P</u> <u>5.3 S</u>	0-1.1' = SAA expect tr. fine submed gravel, little silt, moist
27-						
28-						
29-						
30						

Remarks:

Water Level Measurement _____ Date _____
 _____ Date _____
 _____ Date _____
 _____ Date _____

BL

BORING LOG



**DVIRKA
AND
BARTILUCCI**

Project No.: 1167-JJ
 Project Name: GAZ - Bethany
Plant 114

Well/Boring No.: ATLA
 Sheet 4 of 6
 By: ML Date: 4/23/96
 Chk'd: _____ Date: _____

Drilling Contractor: Emminger Inc.

Driller: Willy Rowland

Geologist: M. Smith

Borehole Completion Depth: 60'

Drill Rig: Earth probe

Drilling Method: Geoprobe

Borehole Diameter: 1 1/2"

Sample Spoon I.D.: 1 1/2"

Drive Hammer Wt.: 7

Ground Surface El.: 0

Date Started: 4/23/96

Date Completed: 4/23/96

DEPTH (FT.)	SAMPLE NO.	SAMPLING INTERVAL	RECOVERY/ RQD	BLOWS/6"	HEADSPACE (PPM)	SAMPLE DESCRIPTION
30-					P10	
31-	ATLAD8	30'-31'	2.0'	-	1.6 P+S	0-2.0' = clayey, silty material, Lt Br. tan color, slightly moist, high salt content
32-						
33-						
34-						
35-						
36-	ATLAD8	35'-37'	2.0'	-	0.4 P+S	0-2.0' - SAA
37-						
38-						
39-						
40						

Remarks:

Water Level Measurement _____ Date _____
 _____ Date _____
 _____ Date _____
 _____ Date _____

BL

BORING LOG



**DVIRKA
AND
BARTILUCCI**

Project No.: 1167-JT
 Project Name: GAC Bethpage
Plant 114

Well/Boring No.: GTLA
 Sheet 5 of 6
 By: M.R. Date: 4/23/96
 Chk'd: _____ Date: _____

Drilling Contractor: Emmington Env.

Driller: Wally Corland

Geologist: M. Rauge

Borehole Completion Depth: 66'

Drill Rig: Earth Probe 200

Drilling Method: Reverse

Borehole Diameter: 1 1/2"

Sample Spoon I.D.: 1 1/4"

Drive Hammer Wt.: _____

Ground Surface El.: 0

Date Started: 4/23/96

Date Completed: 4/23/96

DEPTH (FT.)	SAMPLE NO.	SAMPLING INTERVAL	RECOVERY/RQD	BLOWS/6"	HEADSPACE (PPM)	SAMPLE DESCRIPTION
40-	GTLA03				<u>P.O.</u>	0-2.0': very clayey material high silt + moist
41-	40-41	<u>40-42'</u>	<u>2.0'</u>	-	<u>1.2 PHS</u>	
42-						
43-						
44-						
45-						0-2.0' : SAA
46-	<u>GTLA10</u>	<u>45-47'</u>	<u>2.0'</u>	-	<u>0.4 PHS</u>	
47-						
48-						
49-						
50						

Remarks:

Water Level Measurement

_____ Date _____
 _____ Date _____
 _____ Date _____
 _____ Date _____

BL

BORING LOG



**DVIRKA
AND
BARTILUCCI**

Project No.: 1167-JJ
Project Name: GAC - Bethpage
Plot 114

Well/Boring No.: GTLA
Sheet 6 of 6
By: MR Date: 4/23/96
Chk'd: _____ Date: _____

Drilling Contractor: Emmington F.W.
Driller: Wally Rowland Geologist: M. Lamb
Drill Rig: Earthrite 2 Drilling Method: Geoprobe
Sample Spoon I.D.: 1/4" Drive Hammer Wt.: -
Date Started: 4/23/96 Date Completed: 4/23/96

Borehole Completion Depth: 60'
Borehole Diameter: 1 1/2"
Ground Surface El.: 0

DEPTH (FT.)	SAMPLE NO.	SAMPLING INTERVAL	RECOVERY/RQD	BLOWS/6"	HEADSPACE (PPM)	SAMPLE DESCRIPTION
50-	*				P10	
51-	GTLA11	50'-52'	1.9'	-	34	0-1.9': ^{red} Lt. Br. / orange f ⁺ ne SAND, w/ subv ^l g ⁺ te gravel, moist
52-						
53-		Refused @ 53' attempt sampling 53'-55' - no recovery				
54-		Bottom of bore @ 53'				
55-						
56-	GTLA12	53'-55'		-		
57-						
58-						
59-						
60						

Remarks: * Sample selected for STARS - table 1 lab analysis - closest sample interval to GW interface

Water Level Measurement _____ Date _____
 _____ Date _____
 _____ Date _____
 _____ Date _____

BL

BORING LOG



**DVIRKA
AND
BARTILUCCI**

Project No.: <u>1167-JJ</u>	Well/Boring No.: <u>SDSA</u>
Project Name: <u>Gate, Bethpage Plant #14</u>	Sheet <u>1</u> of <u>3</u>
	By: <u>MR.</u> Date: <u>4/24/96</u>
	Chk'd: _____ Date: _____

Drilling Contractor: <u>Emmington Env.</u>	Borehole Completion Depth: <u>45'</u>
Driller: <u>Willy Rowland</u>	Geologist: <u>M. Reuben</u>
Drill Rig: <u>Earthstone 200</u>	Drilling Method: <u>Openhole</u>
Sample Spoon I.D.: <u>1 1/4"</u>	Drive Hammer Wt.: <u>-</u>
Date Started: <u>4/24/96</u>	Date Completed: <u>4/24/96</u>
	Borehole Diameter: <u>1 1/2"</u>
	Ground Surface El.: <u>0</u>

DEPTH (FT.)	SAMPLE NO.	SAMPLING INTERVAL	RECOVERY/RQD	BLOWS/6"	HEADSPACE (PPM)	SAMPLE DESCRIPTION
3- 2	*				<u>pid</u>	
4- 2	<u>SUSA01</u>	<u>3'-5'</u>	<u>0.7'</u>	<u>-</u>	<u>3.5 Peak 2.4 Steady</u>	<u>0-0.7': DK. Br / BLK fine SAND, some fine subvol qtz gravel, tr. silt, moist</u>
5- 2						
8- 2		<u>Note:</u>	<u>No</u>	<u>samples</u>	<u>collected</u>	<u>from 5'-8'</u>
9- 2	<u>SUSA02</u>	<u>9'-10'</u>	<u>0.7'</u>	<u>-</u>	<u>2.0 Peak 2.0 Steady</u>	<u>0-0.7': Lt. Br / tan fine SAND, little fine subvol qtz gravel, tr. silt, moist</u>
10- 2						
13- 2		<u>Note:</u>	<u>No</u>	<u>samples</u>	<u>collected</u>	<u>from 10'-13'</u>
14- 2	<u>SUSA03</u>	<u>13'-15'</u>	<u>0.6'</u>	<u>-</u>	<u>1.3 Peak 1.3 Steady</u>	<u>0-0.6': SAA 0-0.7'</u>
15- 2						
-9-						
-10						

Remarks: <u>Note: No samples collected from 0-3'</u> <u>* Sample selected for lab analysis due to elevated p10 reading</u>	Water Level Measurement _____ Date _____ _____ Date _____ _____ Date _____ _____ Date _____
--	--

BL

BORING LOG



**DVIRKA
AND
BARTILUCCI**

Project No.: <u>1167-JJ</u> Project Name: <u>ATZ - Be M page</u> <u>Plant 119</u>	Well/Boring No.: <u>SDSA</u> Sheet <u>2</u> of <u>3</u> By: <u>MRL</u> Date: <u>4/24/96</u> Chk'd: _____ Date: _____
---	---

Drilling Contractor: <u>Emmington Env.</u> Driller: <u>Nally Rowland</u> Geologist: <u>M. Laube</u> Drill Rig: <u>Earthrise 200</u> Drilling Method: <u>geopack</u> Sample Spoon I.D.: <u>1/4"</u> Drive Hammer Wt.: _____ Date Started: <u>4/24/96</u> Date Completed: <u>4/24/96</u>	Borehole Completion Depth: <u>45'</u> Borehole Diameter: <u>1/2"</u> Ground Surface El.: <u>0</u>
--	---

DEPTH (FT.)	SAMPLE NO.	SAMPLING INTERVAL	RECOVERY/RQD	BLOWS/6"	HEADSPACE (PPM)	SAMPLE DESCRIPTION
18-20	<u>SDSA04</u>	<u>18'-20'</u>	<u>15'</u>	<u>-</u>	<u>PI0</u> <u>1.4 Peak</u> <u>1.4 Steady</u>	<u>0-1.5': LT-TAN/BR. Fm c SAND, tr. fmc subvol qtz. gravel, tr. silt, moist</u>
19-20						
20-22						
23-24	<u>SDSA05</u>	<u>23'-25'</u>	<u>20'</u>	<u>-</u>	<u>2.1 Peak</u> <u>2.1 Steady</u>	<u>0-2.0': SAA</u>
24-25						
25-28						
28-29	<u>SDSA06</u>	<u>28'-30'</u>	<u>2.0'</u>	<u>-</u>	<u>0 Peak</u> <u>0 Steady</u>	<u>0-1.5': LT-br/orange clayey material (high silt content, semi moist)</u>
29-30						
30-32						
32-34						
34-36						

Remarks: No samples collected from: <u>15'-18'</u> , <u>20'-23'</u> & <u>25'-28'</u> * Sample selected for lab analysis due to elevated P10 reading	Water Level Measurement _____ Date _____ _____ Date _____ _____ Date _____ _____ Date _____
--	---

BL

BORING LOG



**DVIRKA
AND
BARTILUCCI**

Project No.: 1167-JJ
Project Name: ATE - Seepage
Plant 114

Well/Boring No.: SP5A
Sheet 3 of 3
By: M.R. Date: 4/24/96
Chk'd: _____ Date: _____

Drilling Contractor: Emmington FNU

Driller: Wally Rowland

Geologist: M. Flecker

Borehole Completion Depth: 45'

Drill Rig: Fairport 200

Drilling Method: Geoprobe

Borehole Diameter: 1 1/2"

Sample Spoon I.D.: 1 1/4"

Drive Hammer Wt.: 1

Ground Surface El.: 0

Date Started: 4/24/96

Date Completed: 4/24/96

DEPTH (FT.)	SAMPLE NO.	SAMPLING INTERVAL	RECOVERY/RQD	BLOWS/6"	HEADSPACE (PPM)	SAMPLE DESCRIPTION
33.0					<u>pid</u>	
34.1	<u>SOSA 07</u>	<u>33'-35'</u>	<u>2.0'</u>	<u>-</u>	<u>0 peak</u> <u>0 steady</u>	<u>0-0.8' : L.B./tan/red fine SAND, tv + fine submed grs gravel, slightly moist</u> <u>0.8-2.0' : L.B./tan/grey clayey material, high silt, slightly moist mixed w/ dark br. clayey material</u>
35.2						
38.4		<u>Note: No sample collected from 30'-33' & 35'-38'</u>				
39.5	<u>SOSA 05</u>	<u>39'-41'</u>	<u>2.0'</u>	<u>-</u>	<u>0 peak</u> <u>0 steady</u>	<u>0-2.0' : SAA for 0.8' 0.8'-2.0'</u>
40.6						
43.8		<u>Note: No sample collected from 40'-43'</u>				
44.9	<u>* SOSA 09</u>	<u>43'-45'</u>	<u>2.0'</u>	<u>-</u>	<u>0 peak</u> <u>0 steady</u>	<u>0-2.0' : SAA for 0.8'-2.0'</u>
45.0					<u>Refused @ 45'</u>	<u>Bottom of bore @ 45'</u>

Remarks: * sample selected for lab analysis due to closest sample interval to gw interface

Water Level Measurement _____ Date _____
 _____ Date _____
 _____ Date _____
 _____ Date _____

BL

BORING LOG



**DVIRKA
AND
BARTILUCCI**

Project No.: 1167-JJ
Project Name: GAC - Bethpage, N.Y
Plant #14

Well/Boring No.: SDSB
Sheet 1 of 4
By: M/L Date: 4/25/96
Chk'd: _____ Date: _____

Drilling Contractor: Emmerta Env.
Driller: Wally Rowland Geologist: M. Plater
Drill Rig: Earthprobe 200 Drilling Method: Geoprobe
Sample Spoon I.D.: 1 1/4" φ Drive Hammer Wt.: _____
Date Started: 4/25/96 Date Completed: 4/25/96

Borehole Completion Depth: 53'
Borehole Diameter: 1 1/2" φ
Ground Surface El.: 0

DEPTH (FT.)	SAMPLE NO.	SAMPLING INTERVAL	RECOVERY/ (F) RQD	BLOWS/6"	HEADSPACE (PPM)	SAMPLE DESCRIPTION
3- 4						
4- 5	SDSB01	3'-5'	0.9'	-	PID readings Peak: 1.7 Steady: 0.4	0-0.9' : Lt. br/tan. fmc SAND, little fmc subund gtz. Gravel, tr.+ silt, slightly moist
5- 6						
8- 9						Note: No samples collected from 0-3' + 5'-8'
9- 10	SDSB02	8'-10'	1.3'	-	Peak: 1.0 Steady: 0.6	0-1.3' : DK br w/mottled Black fmc+ SAND, some fmc+ subund gtz gravel, little silt, tr.+ clayey material, slightly moist
10- 11						
13- 14						Note: no samples collected from 10'-13'
14- 15	* SDSB03	13'-15'	1.2'	-	Peak: 2.9 Steady: 1.4	0-0.5' : Lt. br./tan fmc SAND, tr.+ fmc subund gtz Gravel, tr.- silt, slightly moist 0.5'-1.2' : Lt. tan/br. fmc SAND, little subund fmc gtz. Gravel, slight moist
15- 16						

Remarks: * Sample selected for lab analysis due to increase in pin readings (initial)

Water Level Measurement	_____	Date _____
	_____	Date _____
	_____	Date _____
	_____	Date _____

BL

BORING LOG



**DVIRKA
AND
BARTILUCCI**

Project No.: 1167-JJ
Project Name: GAC - Belpose, N.Y.
Plant 114

Well/Boring No.: SDSB
Sheet 2 of 4
By: M.P. Date: 4/25/96
Chk'd: _____ Date: _____

Drilling Contractor: Emminta Env.
Driller: Wally Rowland Geologist: M. Rauba
Drill Rig: Geoprobe 200 Drilling Method: Geoprobe Sys.
Sample Spoon I.D.: 1 1/2" φ Drive Hammer Wt.: -
Date Started: 4/25/96 Date Completed: _____

Borehole Completion Depth: _____
Borehole Diameter: 1 1/2" φ
Ground Surface El.: 0

DEPTH (FT.)	SAMPLE NO.	SAMPLING INTERVAL	RECOVERY/ RQD	BLOWS/6"	HEADSPACE (PPM)	SAMPLE DESCRIPTION
18		Note				No sample collection from 15'-18' ^{PIG readings}
18-X	* SDSB 04	18'-20'	2.0'	-	Peak: 2.9 Steady: 1.7	0-2.0': Lt. Br./tan fine SAND, little fine subround gr. gravel, fr. + silt, slightly moist
20		Note				No sample collection from 20'-23'
23-X						
24-X	SDSB 05	23'-25'	2.0'	-	Peak: 1.7 Steady: 1.7	0-2.0': SAA
25-X		Note				No sample collection from 25'-28'
28-X						
29-X	SDSB 06	28'-30'	2.0'	-	Peak: 1.7 Steady: 1.4	0-1.0': SAA 1.0'-2.0': Lt Br./tan clayey material, high silt content, slightly moist
30-20		Note				No sample collection from 30'-33'

Remarks: * Sample selected for lab analysis due to "next" sample interval

Water Level Measurement

_____	Date _____
_____	Date _____
_____	Date _____
_____	Date _____

BL

BORING LOG



**DVIRKA
AND
BARTILUCCI**

Project No.: 1167-JJ
Project Name: Air - Bethpage, N.Y.
Plot 114

Well/Boring No.: SDSB
Sheet 3 of 4
By: MR Date: 4/25/96
Chk'd: _____ Date: _____

Drilling Contractor: Emmitta Bw.

Driller: Nally Rowland

Geologist: M. Rabin

Drill Rig: Earth probe 200

Drilling Method: geoprobe 395.

Sample Spoon I.D.: 1/4" φ

Drive Hammer Wt.: -

Date Started: 4/25/96

Date Completed: 4/25/96

Borehole Completion Depth: 53'
Borehole Diameter: 1 1/2" φ
Ground Surface El.: 0

DEPTH (FT.)	SAMPLE NO.	SAMPLING INTERVAL	RECOVERY/ RQD	BLOWS/6"	HEADSPACE (PPM)	SAMPLE DESCRIPTION
33- 2						
34- 2	SDSB 07	33'-35'	2.0'	-	Pin Readings 3.0 Peak 2.7 Steady	0-2.0' : Lt. Br./tan clayey material, moist, high silt content
35- 2						
38- 2		Note: No sample collected from				35'-38'
39- 2	SDSB 08	38'-40'	2.0'	-	2.1 Peak 2.1 Steady	0-2.0' : Lt Br./tan very fine sands w/ clayey seams, high silt content, slightly moist
40- 2						
41-2		Note: no samples collected				for 40'-43'
43- 2						
44- 2	SDSB 09	43'-45'	2.0'	-	3.1 Peak 3.1 Steady	0-2.0' : SAA
45- 2						
46-2		Note: No sample collection				for 45'-48'

Remarks: Note: elevated pin readings in samples SDSB07-SDSB11 may be due to moisture

Water Level Measurement

_____	Date _____
_____	Date _____
_____	Date _____
_____	Date _____

BL

BORING LOG



**DVIRKA
AND
BARTILUCCI**

Project No.: 1167-JJ
 Project Name: Old Bethpage, N.Y.
Plant #14

Well/Boring No.: SDSB
 Sheet 4 of 4
 By: ML Date: 4/25/96
 Chk'd: _____ Date: _____

Drilling Contractor: Emmington Env.
 Driller: Wally Rowland Geologist: M. Lauber
 Drill Rig: Earth Pad 200 Drilling Method: Geoprobe 595
 Sample Spoon I.D.: 1 1/4" φ Drive Hammer Wt.: -
 Date Started: 4/25/96 Date Completed: 4/25/96

Borehole Completion Depth: 53'
 Borehole Diameter: 1 1/2" φ
 Ground Surface El.: 0

DEPTH (FT.)	SAMPLE NO.	SAMPLING INTERVAL	RECOVERY/RQD	BLOWS/6"	HEADSPACE (PPM)	SAMPLE DESCRIPTION
-x						
48			Notes	No sample collected from 45'-48'		
49	SDSB 10	48'-50'	2.0'	-	2.0 Peak 2.0 steady	0-2.0': Lt. br / tan / red fine SAND, tr. + fine sub sand grs gravel, tr. - silt, tr. - clay seams, slightly moist
50						
53			Notes	No sample collected from 50'-53'		
54	* SDSB 11	51'-53'	2.0'	-	3.6 Peak 3.6 steady	0-2.0': SAA
55						
7				Refusal @ 53'		
8				Bottom of bore @ 53'		
9			Notes	elevated pin readings in samples SDSB10 + SDSB11 maybe due to moisture		
10						

Remarks: * Sample selected for lab analysis due to closest proximity to gw interface

Water Level Measurement

	Date
	Date
	Date
	Date

BL

BORING LOG



**DVIRKA
AND
BARTILUCCI**

Project No.: <u>1167-JJ</u>	Well/Boring No.: <u>FD-A</u>
Project Name: <u>Car. Refinery</u>	Sheet <u>1</u> of <u>2</u>
<u>Plant 114 Ph. II EA</u>	By: <u>wp</u> Date: <u>6/28/96</u>
	Chk'd: _____ Date: _____

Drilling Contractor: <u>Emmitta Env.</u>	Borehole Completion Depth: <u>22'</u>
Driller: <u>Dennis Vigliotta</u>	Geologist: <u>M. Rabin</u>
Drill Rig: <u>Earthpulse 200</u>	Drilling Method: <u>Geomul. Sys.</u>
Sample Spoon I.D.: <u>1/4"</u>	Drive Hammer Wt.: <u>-</u>
Date Started: <u>6/28/96</u>	Date Completed: <u>6/28/96</u>
	Borehole Diameter: <u>1 1/2" φ</u>
	Ground Surface El.: <u>0</u>

DEPTH (FT.)	SAMPLE NO.	SAMPLING INTERVAL	RECOVERY/ RQD	BLOWS/6"	HEADSPACE (PPM)	SAMPLE DESCRIPTION
-0-	* FD-A01	0-2'	1.8'	-	0.2 / 0.2	0-1.8': lt. br/ tan fine sand, tr. - fine subnd gtz., tr. - silt, dry
-1-	FD-A01					
-2-		Note: No samples collected from 2'-5'				
5-8	* FD-A02	5'-7'	1.5'	-	0.2 / 0.2	0-1.5': SAA
6-8						
7-8		Note: No sample collection from 7'-10'				
10-8	FD-A03	10'-12'	0.5'	-	0.2 / 0.2	0-0.5': br./tan/orange tint fine sand, tr. + fine subnd gtz gravel, tr. - silt, dry
11-8						
12-8		Notes: No sample collection from 12'-15'				
-9-						
-10						

Remarks: <u>soil samples selected for lab analysis for Voc's, Svoc's, pesticides + TPUC + fingerprint</u>	Water Level Measurement _____ Date _____ _____ Date _____ _____ Date _____ _____ Date _____
---	--

BL

BORING LOG



**DVIRKA
AND
BARTILUCCI**

Project No.: 1167-J5
 Project Name: ARC - Plant 114
Phase II EA

Well/Boring No.: FD-A
 Sheet 2 of 2
 By: M.R. Date: 6/28/96
 Chk'd: _____ Date: _____

Drilling Contractor: Emmington Env.
 Driller: Dennis Vigliotta Geologist: M. Rausch
 Drill Rig: Earth probe 200 Drilling Method: Open hole Sys.
 Sample Spoon I.D.: 1/4" d Drive Hammer Wt.: -
 Date Started: 6/28/96 Date Completed: 6/28/96

Borehole Completion Depth: 22'
 Borehole Diameter: 1 1/2" d
 Ground Surface El.: 0

DEPTH (FT.)	SAMPLE NO.	SAMPLING INTERVAL	RECOVERY/ RQD	BLOWS/6"	HEADSPACE (PPM)	SAMPLE DESCRIPTION
15 ft						
16 ft	FD-A 04	15'-17'	1.8'	-	0.2 / 0.2	0-1.8': Lt. Br/ten fine sand, little fine submed grt sand, tr. silt, dry
17 ft						
18 ft						No. 10: No sample collection from 17'-20'
19 ft						
20 ft						Drillers get drill rods "stuck" in Borehole for 20'-22' sample But are successful @ retrieving
21 ft						
21'-7-	FD-A 05	20'-22'	1.5'	-	0.2 / 0.2	0-1.5': SAA for 0-1.8'
22'-8-						
-9-						
-10						Bottom of core @ 22'

Remarks: * Sample selected for lab analysis for Vol's, Svol's, PP Actals + Talc + fingerprint

Water Level Measurement

_____	Date _____
_____	Date _____
_____	Date _____
_____	Date _____

BL

BORING LOG



Project No.: 1167-JJ
 Project Name: QAC Plat 114 Phase II EA

Well/Boring No.: P12-A
 Sheet 1 of 1
 By: M.R. Date: 6/28/96
 Chk'd: _____ Date: _____

Drilling Contractor: Emmington Env.
 Driller: Dennis Visiotta Geologist: M. Rouby
 Drill Rig: Earth Tech 200 Drilling Method: Geopac Sys.
 Sample Spoon I.D.: 1 1/4" φ Drive Hammer Wt.: -
 Date Started: 6/25/96 Date Completed: 6/28/96

Borehole Completion Depth: 5' - 10"
 Borehole Diameter: 1 1/2" φ
 Ground Surface El.: 0

DEPTH (FT.)	SAMPLE NO.	SAMPLING INTERVAL	RECOVERY/RQD	BLOWS/6"	HEADSPACE (PPM)	SAMPLE DESCRIPTION
-0						
-1	PR-A 01	0-2'	1.8'	-	0.4 / 0.2	0-0.9': Lt. Br. / tan / orange fine SAND, tr. subbed gtz gravel, tr. silt, dry 0.9'-1.8': Dk. Br. clayey material w/ some fine subbed gtz. gravel, silty, moist
-2						
-3	PR-A 02	2'-4'	2.0'	-	2.0 / 0.4	0-1.5': Dk. Br. / blk. fine SAND, some fine subbed gtz gravel, tr. silt, moist 1.5'-2.0': Lt. Br. / tan fine SAND, little fine subbed gtz. gravel, tr. silt, dry
-4						
-5	PR-A 03	4'-6'	0.8'	-	0.4 / 0.4	0-0.8': SAA for 1.5'-2.0'
-6						
-7						
-8						
-9						
-10						
						Bottom of Bore @ 5'-10" (refusal @ depth)

Remarks: Note: all samples collected for lab analysis for vol's, spec's + pp metals

Water Level Measurement		Date

BL



DVIRKA
AND
BARTILUCCI

DRILLING CONTRACTOR				DRILLING LOG		BORING NUMBER		
Driller <u>Clearwater W Roland</u>				PROJECT NAME <u>Grimman - Plant 114</u>		Sheet <u>1</u> of <u>2</u>		
Inspector <u>D. Pradovich</u>				PROJECT # <u>1167 - JJ2</u>		Boring Location <u>NW corner of</u>		
Rig Type <u>CME 55</u>				Location/Address <u>920 So. Oyster Bay Rd.</u>		<u>Facility yard (in back)</u>		
Drilling Method <u>4 1/4" ID HSA</u>				<u>Bethpage</u>				
Drive Hammer Weight <u>140 lbs.</u>								
GROUNDWATER OBSERVATIONS				Weather		Plot Plan		
Water Level <u>64.07' TOC</u>				<u>Sunny, v. cool, breezy</u>				
Time				Date/Time Start <u>7/18/96 9:00 am</u>				
Date <u>4/18/96</u>				Date/Time Finish <u>4/18/96 4:30 pm.</u>				
Casing Depth <u>75.5'</u>								
Sample Depth	Sample Number	SPT	PID/FID Reading	FIELD IDENTIFICATION OF MATERIAL		WELL SCHEMATIC		COMMENTS
			<u>0.1</u>	<u>Cuttings</u>				
				<u>0 - 2' Br f-c SAND, some(-) silt and f-c gravel, moist</u>				
				<u>2 - 12' Orange-br. f-c SAND, little silt & f-c gravel, moist</u>				
			<u>0.0</u>					
				<u>12 - 30' Orange f-c SAND, little (+) f-c gravel, trace silt and cobble, moist</u>				
			<u>0.0</u>					
				<u>30 - 36' Orange-br. f-c SAND and f-c gravel, little(-) silt br. cobble, moist - v. moist</u>				
			<u>0.0</u>					
				<u>36 - 43' Br. f-c SAND, little (+) f-c gravel, trace silt, moist</u>				
SPT = STANDARD PENETRATION TEST				Soil Stratigraphy Summary				

DRILLING CONTRACTOR				DRILLING LOG		BORING NUMBER <u>MW-101</u>	
Driller <u>W. Roland / Clearwater</u>				PROJECT NAME <u>Greenman Plant 114</u>		Sheet <u>2</u> of <u>2</u>	
Inspector <u>D. Obradovich</u>				PROJECT # <u>1167-JJ2</u>		Boring Location <u>-</u>	
Rig Type <u>CME 55</u>				Location/Address <u>920 So. Oyster Bay Rd.</u>			
Drilling Method <u>4 1/4" ID HSA</u>				<u>Bethpage</u>			
Drive Hammer Weight <u>140 lbs.</u>							
GROUNDWATER OBSERVATIONS				Weather <u>Sunny, v. cool, breezy</u>		Plot Plan	
Water Level		<u>64.07' Tcd</u>		Date/Time Start <u>4/18/96 9:00 am</u>			
Time				Date/Time Finish <u>4/18/96 4:30 pm</u>			
Date		<u>4/18/96</u>					
Casing Depth		<u>75.5'</u>					
Sample Depth	Sample Number	SPT	PID/FID Reading	FIELD IDENTIFICATION OF MATERIAL		WELL SCHEMATIC	COMMENTS
				<p>42</p> <p>43-46' Br. -sl. orange f-c SAND and f. gravel, some (s) m-c gravel and silt, & cobble, wet (little clay)</p> <p>44</p> <p>46-60' Grey-br. f-c SAND, some (s) silt, little (s) f-c gravel, and clay, wet</p> <p>46</p> <p>48</p> <p>50</p> <p>52</p> <p>54</p> <p>56</p> <p>(60-62') Grey SILT, little clay fr. v. f. sand, compact, moist (occasional - tr. iron stain microlens)</p> <p>58</p> <p>60</p> <p>(62-64') Grey SILT, little (s) clay, tr. v. f. sand & mica, compact, tr. iron stain, moist</p> <p>62</p> <p>64</p> <p>(64-66') 0-3" same as 62-64' 3-7" Red-tan f-m SAND, v. moist - wet 7-10" yellow-grey bands of f-m SAND, moist-wet (tr. silt)</p> <p>66</p> <p>68</p> <p>(66-68') Br. f-m SAND, little (s) silt, wet (sl. iron-stain-red)</p> <p>70</p> <p>72</p> <p>(68-70') Br. f-m SAND, little (s) silt, wet</p> <p>74</p> <p>76</p> <p>END OF BORING AT 76' bg</p> <p>78</p> <p>80</p>		<p>∇ GW.</p>	<p>No analytical samples collected</p>
60-62'	1	8	0.0				
Rec.	14"	7					
		8					
		7					
62-64'	2	10	0.0				
Rec.	10"	10					
		9					
		8					
64-66'	3	8	0.0				
Rec.	10"	10					
		9					
		9					
66-68'	4	8	0.0				
Rec.	3"	7					
		10					
		7					
68-70'	5	8	0.0				
Rec.	2"	8					
		9					
		7					
SPT - STANDARD PENETRATION TEST				Soil Stratigraphy Summary			



D VIRKA
AND
BARTILUCCI

DRILLING CONTRACTOR				DRILLING LOG		BORING NUMBER <u>MW-102</u>		
Driller <u>Clearwater / W. Roland</u>				PROJECT NAME <u>Grumman Plant 114</u>		Sheet <u>1</u> of <u>2</u>		
Inspector <u>D Obradovich</u>				PROJECT # <u>1167-JJ-2</u>		Boring Location		
Rig Type <u>CME 55</u>				Location/Address		<u>East of Bldg (on center)</u>		
Drilling Method <u>4 1/4" ID HSA</u>						<u>in between parking curb and</u>		
Drive Hammer Weight <u>140 lbs</u>						<u>sidewalk</u>		
GROUNDWATER OBSERVATIONS				Weather <u>M. Sunny, windy, ~45-50°</u>		Plot Plan		
Water Level <u>65.04 TOL</u>		Time <u>-</u>		Date/Time Start <u>4/17/96 1300</u>				
Date <u>4/18/96</u>		Date/Time Finish <u>4/17/96</u>						
Casing Depth <u>75.5'</u>								
Sample Depth	Sample Number	SPT	FID/FID Reading	FIELD IDENTIFICATION OF MATERIAL		WELL SCHEMATIC		COMMENTS
			0.2	Cuttings 0-2'				
				2-5' br. f-m SAND, some silt, little f-c gravel, moist (0-2')				
				2-10' Orange-br. f-c SAND, little silt and f-c gravel, moist				
			0.4					
				10-25' Orange f-c SAND, little f-c gravel, tr(+) silt, moist				
			0.0					
			0.0	28-35' Orange-tan f-c SAND, little (-) f-c gravel, moist				
				35-42' Orange-red-brown c.SAND some f-m sand, tr(+) f-c gravel little (-) silt, moist				
			0.0					
SPT = STANDARD PENETRATION TEST				Soil Stratigraphy Summary				



DYIRKA
AND
BARTILUCCI

DRILLING CONTRACTOR				DRILLING LOG		BORING NUMBER <u>MW-102</u>		
Driller <u>Clearwater/W. Round</u>				PROJECT NAME <u>Swimmer Plant 114</u>		Sheet <u>2</u> of <u>2</u>		
Inspector <u>D. Borodovich</u>				PROJECT # <u>1167-JJ-2</u>		Boring Location _____		
Rig Type <u>CME 55</u>				Location/Address <u>926 So Oyster Bay Rd.</u>		_____		
Drilling Method <u>1/2" ID HSA</u>				<u>Be Page</u>		_____		
Drive Hammer Weight <u>140 lbs.</u>				_____		_____		
GROUNDWATER OBSERVATIONS				Weather <u>M. Sunny, windy, ~50"</u>		Plot Plan <u>-</u>		
Water Level <u>65.4' TOG</u>				Date/Time Start <u>4/17/96 10:00 am</u>				
Time _____				Date/Time Finish <u>4/17/96</u>				
Date <u>4/18/96</u>								
Casing Depth <u>75.5'</u>								
Sample Depth	Sample Number	SPT Reading	PID/FID Reading	FIELD IDENTIFICATION OF MATERIAL		WELL SCHEMATIC		COMMENTS
				42	42-48' pink-brown f-c SAND, some f gravel & silt, tr. clay, v. moist			
				44				
				46				
				48	48-53' pink-lt. br f-c SAND; some clay & silt, tr. f gravel, v moist			
				50				
				52	53-56' pink-lt. br. f-m SAND, some clay, little (t) silt, wet			
				54				
				56	56-62' pink-red-tan f. sand, some (-) clay, little (t) silt & v. f. gravel, tr. m gravel, v. moist			
				58				
				60				
				62	(62-64') 0-8" Grey (sl. purple) SILT tr. clay & v. f. sand			
62-64'	1	9	0.1	64	(tr. blk. silt) 8-10" Grey-orange-bright red iron stained SILT, tr. clay (0-10" - powdery silt, dry)			
Rec.	11"	10		66	(64-66') 0.5" Grey SILT w/ fine lenses of iron stained silt & v. f. sand, v. moist 1" of grey clay @ btm			
				68	5-7" Yellow green v. f. sand & silt 7-8" Red v. f. sand, some silt 7-20" Grey-white blk. orange SILT, some v. f. sand, tr. clay, v. moist (1st layer of silt wet)			
64-66'	2	8	0.4	70	(66-68') Grey, orange, blk. SILT, some v. fine sand, little (-) clay lenses of iron stained silt, v. moist - wet			
Rec.	20"	7		72				
				74				
66-68'	3	10	0.1	76				
Rec.	9"	11		78				
				80				
				82	END OF SOIL BORING AT 76'			
SPT = STANDARD PENETRATION TEST				Soil Stratigraphy Summary _____				

▽
G.W.

No analytical samples collected

Appendix G



APPENDIX G

WELL CONSTRUCTION LOGS

▲1167\S0418601.DOC(R01)

WELL CONSTRUCTION LOG

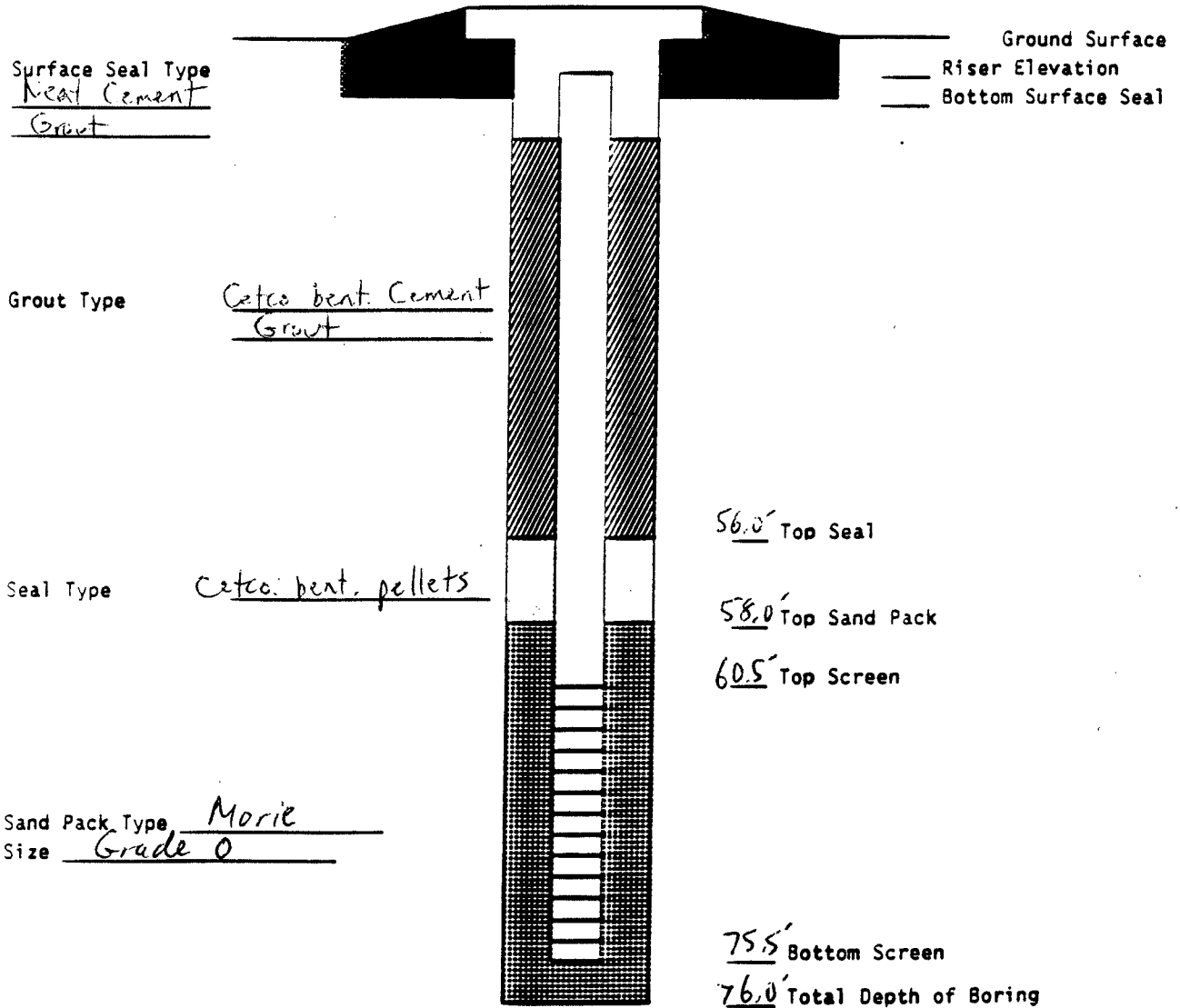
SITE Groffman Plant 114 JOB NO. 1167-JJ2 WELL NO. MW-101

TOTAL DEPTH _____ SURFACE ELEV. _____ TOP RISER ELEV. _____

WATER LEVELS (DEPTH, DATE, TIME) _____ DATE INSTALLED _____

RISER DIA 2" MATERIAL PVC LENGTH _____
 SCREEN DIA 2" MATERIAL PVC LENGTH 15.0' SLOT SIZE 0.01"

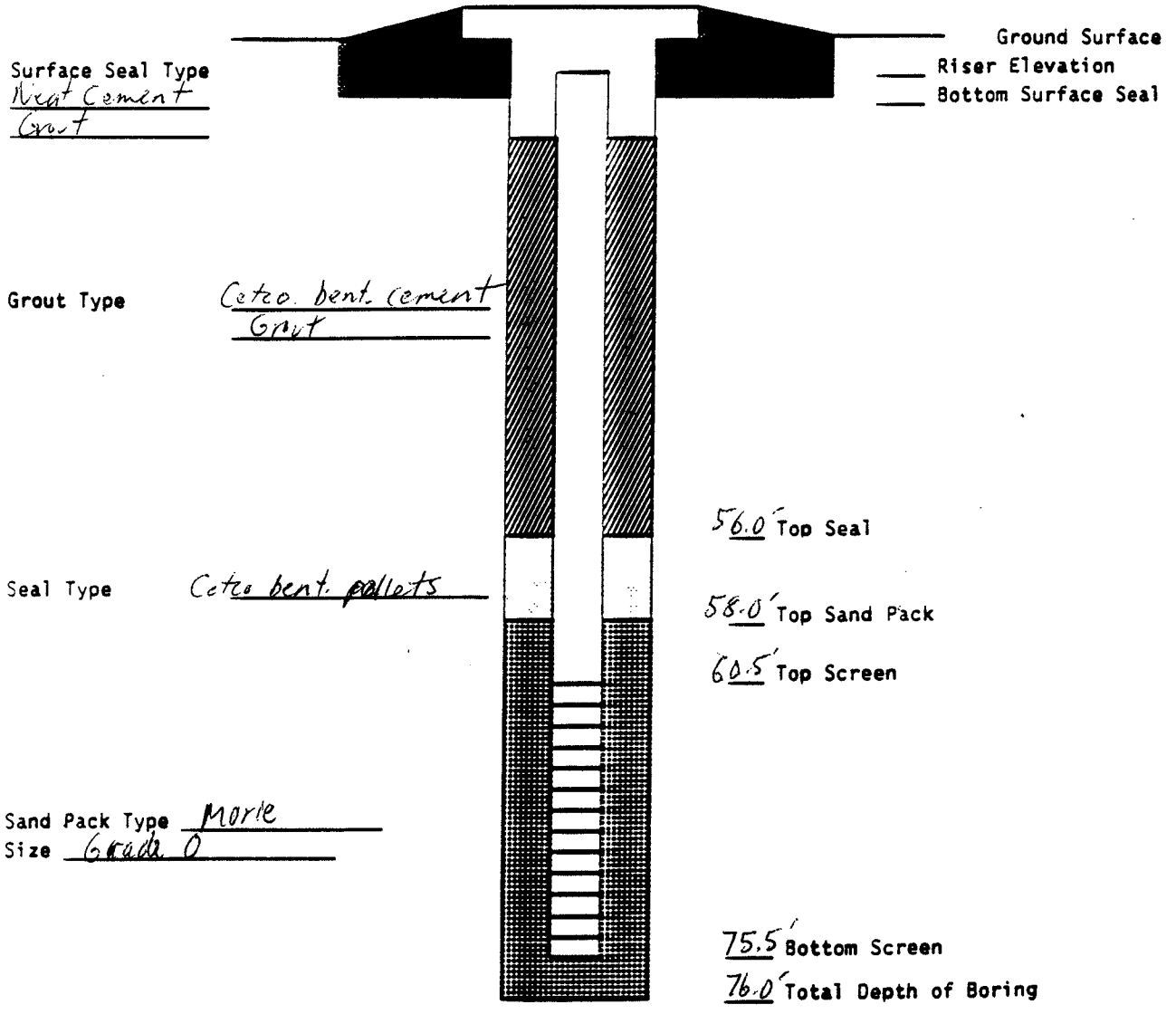
SCHEMATIC



WELL CONSTRUCTION LOG

SITE Crumman Plant 114 JOB NO. 1167-JV2 WELL NO. MW-102
 TOTAL DEPTH 75.5' SURFACE ELEV. _____ TOP RISER ELEV. _____
 WATER LEVELS (DEPTH, DATE, TIME) _____ DATE INSTALLED 4/17/96
 RISER DIA 2" MATERIAL PVC LENGTH 60.0'
 SCREEN DIA 2" MATERIAL PVC LENGTH 15.0' SLOT SIZE 0.01"

SCHEMATIC



Appendix H



APPENDIX H

LABORATORY DATA

1E
VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

SDSA01

Lab Name: NYTEST ENV INC.

Contract: 9622464

Lab Code: NYTEST

Case No.: 27279

SAS No.:

SDG No.: GAC1

Matrix: (soil/water) SOIL

Lab Sample ID: 2727901

Sample wt/vol: 5.0 (g/mL) G

Lab File ID: N7653.D

Level: (low/med) LOW

Date Received: 04/25/96

% Moisture: not dec. 4

Data Analyzed: 04/29/96

Column: (pack/cap) CAP

Dilution Factor: 1.0

CONCENTRATION UNITS:
(ug/L or ug/Kg) UG/KG

Number TICs found: 2

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1.	UNKNOWN	21.413	24	J
2.	UNKNOWN HYDROCARBON	26.472	11	J
3.				
4.				
5.				
6.				
7.				
8.				
9.				
10.				
11.				
12.				
13.				
14.				
15.				
16.				
17.				
18.				
19.				
20.				
21.				
22.				
23.				
24.				
25.				
26.				
27.				
28.				
29.				
30.				

000030

FORM I VOA-TIC

SW846 METHOD 8240A

1A
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

SDSA05

Lab Name: NYTEST ENV INC.

Contract: 9622464

Lab Code: NYTEST

Case No.: 27279

SAS No.:

SDG No.: GAC1

Matrix: (soil/water) SOIL

Lab Sample ID: 2727902

Sample wt/vol: 5.0 (g/mL) G

Lab File ID: N7654.D

Level: (low/med) LOW

Date Received: 04/25/96

% Moisture: not dec. 4

Data Analyzed: 04/29/96

Column: (pack/cap) CAP

Dilution Factor: 1.0

CONCENTRATION UNITS:
(ug/L or ug/Kg) UG/KG

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
74-87-3	-----Chloromethane	10	U
74-83-9	-----Bromomethane	10	U
75-01-4	-----Vinyl Chloride	10	U
75-00-3	-----Chloroethane	10	U
75-09-2	-----Methylene Chloride	4	JB
67-64-1	-----Acetone	40	
75-15-0	-----Carbon Disulfide	10	U
75-35-4	-----1,1-Dichloroethene	10	U
75-34-3	-----1,1-Dichloroethane	10	U
540-59-0	-----1,2-Dichloroethene (total)	10	U
67-66-3	-----Chloroform	10	U
107-06-2	-----1,2-Dichloroethane	10	U
78-93-3	-----2-Butanone	10	U
71-55-6	-----1,1,1-Trichloroethane	10	U
56-23-5	-----Carbon Tetrachloride	10	U
75-27-4	-----Bromodichloromethane	10	U
78-87-5	-----1,2-Dichloropropane	10	U
10061-01-5	-----cis-1,3-Dichloropropene	10	U
79-01-6	-----Trichloroethene	10	U
124-48-1	-----Dibromochloromethane	10	U
79-00-5	-----1,1,2-Trichloroethane	10	U
71-43-2	-----Benzene	10	U
10061-02-6	-----trans-1,3-Dichloropropene	10	U
75-25-2	-----Bromoform	10	U
108-10-1	-----4-Methyl-2-Pentanone	10	U
591-78-6	-----2-Hexanone	10	U
127-18-4	-----Tetrachloroethene	10	U
79-34-5	-----1,1,2,2-Tetrachloroethane	10	U
108-88-3	-----Toluene	10	U
108-90-7	-----Chlorobenzene	10	U
100-41-4	-----Ethylbenzene	10	U
100-42-5	-----Styrene	10	U
1330-20-7	-----Xylene (total)	10	U
108-05-4	-----Vinyl Acetate	10	U

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FORM I VOA

SW846 METHOD 8240A

1E
VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

SDSA05

Lab Name: NYTEST ENV INC.

Contract: 9622464

Lab Code: NYTEST

Case No.: 27279

SAS No.:

SDG No.: GAC1

Matrix: (soil/water) SOIL

Lab Sample ID: 2727902

Sample wt/vol: 5.0 (g/mL) G

Lab File ID: N7654.D

Level: (low/med) LOW

Date Received: 04/25/96

% Moisture: not dec. 4

Data Analyzed: 04/29/96

Column: (pack/cap) CAP

Dilution Factor: 1.0

Number TICs found: 4

CONCENTRATION UNITS:
(ug/L or ug/Kg) UG/KG

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1.	UNKNOWN SILOXANE	17.943	6	J
2.	UNKNOWN	21.409	8	J
3.	UNKNOWN SILOXANE	22.001	61	J
4.	UNKNOWN SILOXANE	26.253	11	J
5.				
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FORM I VOA-TIC

SW846 METHOD 8240A

1A
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

SDSA09

Lab Name: NYTEST ENV INC. Contract: 9622464
 Lab Code: NYTEST Case No.: 27279 SAS No.: SDG No.: GAC1
 Matrix: (soil/water) SOIL Lab Sample ID: 2727905
 Sample wt/vol: 5.0 (g/mL) G Lab File ID: N7657.D
 Level: (low/med) LOW Date Received: 04/25/96
 % Moisture: not dec. 7 Data Analyzed: 04/29/96
 Column: (pack/cap) CAP Dilution Factor: 1.0

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
74-87-3	-----Chloromethane	11	U
74-83-9	-----Bromomethane	11	U
75-01-4	-----Vinyl Chloride	11	U
75-00-3	-----Chloroethane	11	U
75-09-2	-----Methylene Chloride	6	JB
67-64-1	-----Acetone	26	
75-15-0	-----Carbon Disulfide	11	U
75-35-4	-----1,1-Dichloroethene	11	U
75-34-3	-----1,1-Dichloroethane	11	U
540-59-0	-----1,2-Dichloroethene (total)	11	U
67-66-3	-----Chloroform	11	U
107-06-2	-----1,2-Dichloroethane	11	U
78-93-3	-----2-Butanone	11	U
71-55-6	-----1,1,1-Trichloroethane	11	U
56-23-5	-----Carbon Tetrachloride	11	U
75-27-4	-----Bromodichloromethane	11	U
78-87-5	-----1,2-Dichloropropane	11	U
10061-01-5	-----cis-1,3-Dichloropropene	11	U
79-01-6	-----Trichloroethene	11	U
124-48-1	-----Dibromochloromethane	11	U
79-00-5	-----1,1,2-Trichloroethane	11	U
71-43-2	-----Benzene	11	U
10061-02-6	-----trans-1,3-Dichloropropene	11	U
75-25-2	-----Bromoform	11	U
108-10-1	-----4-Methyl-2-Pentanone	11	U
591-78-6	-----2-Hexanone	11	U
127-18-4	-----Tetrachloroethene	4	J
79-34-5	-----1,1,2,2-Tetrachloroethane	11	U
108-88-3	-----Toluene	11	U
108-90-7	-----Chlorobenzene	11	U
100-41-4	-----Ethylbenzene	11	U
100-42-5	-----Styrene	11	U
1330-20-7	-----Xylene (total)	11	U
108-05-4	-----Vinyl Acetate	11	U

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FORM I VOA

SW846 METHOD 8240A

1E
VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

SDSA09

Lab Name: NYTEST ENV INC.

Contract: 9622464

Lab Code: NYTEST

Case No.: 27279

SAS No.:

SDG No.: GAC1

Matrix: (soil/water) SOIL

Lab Sample ID: 2727905

Sample wt/vol: 5.0 (g/mL) G

Lab File ID: N7657.D

Level: (low/med) LOW

Date Received: 04/25/96

% Moisture: not dec. 7

Data Analyzed: 04/29/96

Column: (pack/cap) CAP

Dilution Factor: 1.0

Number TICs found: 3

CONCENTRATION UNITS:
(ug/L or ug/Kg) UG/KG

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1.	UNKNOWN SILOXSANE	21.996	8	J
2.	UNKNOWN HYDROCARBON	23.815	6	J
3.	UNKNOWN HYDROCARBON	26.466	8	J
4.				
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FORM I VOA-TIC

SW846 METHOD 8240A

1A
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

SDSB03

Lab Name: NYTEST ENV INC.

Contract: 9622464

Lab Code: NYTEST

Case No.: 27279

SAS No.:

SDG No.: GAC1

Matrix: (soil/water) SOIL

Lab Sample ID: 2729701

Sample wt/vol: 5.0 (g/mL) G

Lab File ID: N7679.D

Level: (low/med) LOW

Date Received: 04/26/96

% Moisture: not dec. 4

Data Analyzed: 04/30/96

Column: (pack/cap) CAP

Dilution Factor: 1.0

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
74-87-3	-----Chloromethane	10	U
74-83-9	-----Bromomethane	10	U
75-01-4	-----Vinyl Chloride	10	U
75-00-3	-----Chloroethane	10	U
75-09-2	-----Methylene Chloride	4	JB
67-64-1	-----Acetone	35	
75-15-0	-----Carbon Disulfide	10	U
75-35-4	-----1,1-Dichloroethene	10	U
75-34-3	-----1,1-Dichloroethane	10	U
540-59-0	-----1,2-Dichloroethene (total)	10	U
67-66-3	-----Chloroform	10	U
107-06-2	-----1,2-Dichloroethane	10	U
78-93-3	-----2-Butanone	10	U
71-55-6	-----1,1,1-Trichloroethane	10	U
56-23-5	-----Carbon Tetrachloride	10	U
75-27-4	-----Bromodichloromethane	10	U
78-87-5	-----1,2-Dichloropropane	10	U
10061-01-5	-----cis-1,3-Dichloropropene	10	U
79-01-6	-----Trichloroethene	10	U
124-48-1	-----Dibromochloromethane	10	U
79-00-5	-----1,1,2-Trichloroethane	10	U
71-43-2	-----Benzene	10	U
10061-02-6	-----trans-1,3-Dichloropropene	10	U
75-25-2	-----Bromoform	10	U
108-10-1	-----4-Methyl-2-Pentanone	10	U
591-78-6	-----2-Hexanone	10	U
127-18-4	-----Tetrachloroethene	10	U
79-34-5	-----1,1,2,2-Tetrachloroethane	10	U
108-88-3	-----Toluene	10	U
108-90-7	-----Chlorobenzene	10	U
100-41-4	-----Ethylbenzene	10	U
100-42-5	-----Styrene	10	U
1330-20-7	-----Xylene (total)	10	U
108-05-4	-----Vinyl Acetate	10	U

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FORM I VOA

SW846 METHOD 8240A

1E
VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

SDSB03

Lab Name: NYTEST ENV INC.

Contract: 9622464

Lab Code: NYTEST

Case No.: 27279

SAS No.:

SDG No.: GAC1

Matrix: (soil/water) SOIL

Lab Sample ID: 2729701

Sample wt/vol: 5.0 (g/mL) G

Lab File ID: N7679.D

Level: (low/med) LOW

Date Received: 04/26/96

% Moisture: not dec. 4

Data Analyzed: 04/30/96

Column: (pack/cap) CAP

Dilution Factor: 1.0

Number TICs found: 2

CONCENTRATION UNITS:
(ug/L or ug/Kg) UG/KG

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1.	UNKNOWN	21.387	44	J
2.	UNKNOWN SILOXSANE	21.988	6	J
3.				
4.				
5.				
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FORM I VOA-TIC

SW846 METHOD 8240A

1A
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

SDSB04

Lab Name: NYTEST ENV INC. Contract: 9622464

Lab Code: NYTEST Case No.: 27279 SAS No.: SDG No.: GAC1

Matrix: (soil/water) SOIL Lab Sample ID: 2729702

Sample wt/vol: 5.0 (g/mL) G Lab File ID: N7681.D

Level: (low/med) LOW Date Received: 04/26/96

% Moisture: not dec. 4 Data Analyzed: 04/30/96

Column: (pack/cap) CAP Dilution Factor: 1.0

CONCENTRATION UNITS:
(ug/L or ug/Kg) UG/KG

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
74-87-3	-----Chloromethane	10	U
74-83-9	-----Bromomethane	10	U
75-01-4	-----Vinyl Chloride	10	U
75-00-3	-----Chloroethane	10	U
75-09-2	-----Methylene Chloride	4	JB
67-64-1	-----Acetone	22	U
75-15-0	-----Carbon Disulfide	10	U
75-35-4	-----1,1-Dichloroethene	10	U
75-34-3	-----1,1-Dichloroethane	10	U
540-59-0	-----1,2-Dichloroethene (total)	10	U
67-66-3	-----Chloroform	10	U
107-06-2	-----1,2-Dichloroethane	10	U
78-93-3	-----2-Butanone	10	U
71-55-6	-----1,1,1-Trichloroethane	10	U
56-23-5	-----Carbon Tetrachloride	10	U
75-27-4	-----Bromodichloromethane	10	U
78-87-5	-----1,2-Dichloropropane	10	U
10061-01-5	-----cis-1,3-Dichloropropene	10	U
79-01-6	-----Trichloroethene	10	U
124-48-1	-----Dibromochloromethane	10	U
79-00-5	-----1,1,2-Trichloroethane	10	U
71-43-2	-----Benzene	10	U
10061-02-6	-----trans-1,3-Dichloropropene	10	U
75-25-2	-----Bromoform	10	U
108-10-1	-----4-Methyl-2-Pentanone	10	U
591-78-6	-----2-Hexanone	10	U
127-18-4	-----Tetrachloroethene	10	U
79-34-5	-----1,1,2,2-Tetrachloroethane	10	U
108-88-3	-----Toluene	10	U
108-90-7	-----Chlorobenzene	10	U
100-41-4	-----Ethylbenzene	10	U
100-42-5	-----Styrene	10	U
1330-20-7	-----Xylene (total)	10	U
108-05-4	-----Vinyl Acetate	10	U

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FORM I VOA

SW846 METHOD 8240A

1E
VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

SDSB04

Lab Name: NYTEST ENV INC.

Contract: 9622464

Lab Code: NYTEST

Case No.: 27279

SAS No.:

SDG No.: GAC1

Matrix: (soil/water) SOIL

Lab Sample ID: 2729702

Sample wt/vol: 5.0 (g/mL) G

Lab File ID: N7681.D

Level: (low/med) LOW

Date Received: 04/26/96

% Moisture: not dec. 4

Data Analyzed: 04/30/96

Column: (pack/cap) CAP

Dilution Factor: 1.0

CONCENTRATION UNITS:
(ug/L or ug/Kg) UG/KG

Number TICs found: 1

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1.	UNKNOWN	21.405	66	J
2.				
3.				
4.				
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FORM I VOA-TIC

SW846 METHOD 8240A

1A
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

SDSB11

Lab Name: NYTEST ENV INC.

Contract: 9622464

Lab Code: NYTEST

Case No.: 27279

SAS No.:

SDG No.: GAC1

Matrix: (soil/water) SOIL

Lab Sample ID: 2729703

Sample wt/vol: 5.0 (g/mL) G

Lab File ID: N7661.D

Level: (low/med) LOW

Date Received: 04/26/96

% Moisture: not dec. 19

Data Analyzed: 04/30/96

Column: (pack/cap) CAP

Dilution Factor: 1.0

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
74-87-3	-----Chloromethane	12	U
74-83-9	-----Bromomethane	12	U
75-01-4	-----Vinyl Chloride	12	U
75-00-3	-----Chloroethane	12	U
75-09-2	-----Methylene Chloride	6	JB
67-64-1	-----Acetone	18	
75-15-0	-----Carbon Disulfide	12	U
75-35-4	-----1,1-Dichloroethene	12	U
75-34-3	-----1,1-Dichloroethane	12	U
540-59-0	-----1,2-Dichloroethene (total)	12	U
67-66-3	-----Chloroform	12	U
107-06-2	-----1,2-Dichloroethane	12	U
78-93-3	-----2-Butanone	12	U
71-55-6	-----1,1,1-Trichloroethane	12	U
56-23-5	-----Carbon Tetrachloride	12	U
75-27-4	-----Bromodichloromethane	12	U
78-87-5	-----1,2-Dichloropropane	12	U
10061-01-5	-----cis-1,3-Dichloropropene	12	U
79-01-6	-----Trichloroethene	12	U
124-48-1	-----Dibromochloromethane	12	U
79-00-5	-----1,1,2-Trichloroethane	12	U
71-43-2	-----Benzene	12	U
10061-02-6	-----trans-1,3-Dichloropropene	12	U
75-25-2	-----Bromoform	12	U
108-10-1	-----4-Methyl-2-Pentanone	12	U
591-78-6	-----2-Hexanone	12	U
127-18-4	-----Tetrachloroethene	12	U
79-34-5	-----1,1,2,2-Tetrachloroethane	12	U
108-88-3	-----Toluene	22	
108-90-7	-----Chlorobenzene	12	U
100-41-4	-----Ethylbenzene	12	U
100-42-5	-----Styrene	12	U
1330-20-7	-----Xylene (total)	12	U
108-05-4	-----Vinyl Acetate	12	U

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FORM I VOA

SW846 METHOD 8240A

1E
VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

SDSB11

Lab Name: NYTEST ENV INC.

Contract: 9622464

Lab Code: NYTEST

Case No.: 27279

SAS No.:

SDG No.: GAC1

Matrix: (soil/water) SOIL

Lab Sample ID: 2729703

Sample wt/vol: 5.0 (g/mL) G

Lab File ID: N7661.D

Level: (low/med) LOW

Date Received: 04/26/96

% Moisture: not dec. 19

Data Analyzed: 04/30/96

Column: (pack/cap) CAP

Dilution Factor: 1.0

CONCENTRATION UNITS:
(ug/L or ug/Kg) UG/KG

Number TICs found: 3

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1.	UNKNOWN	8.664	22	J
2.	UNKNOWN	21.413	9	J
3.	UNKNOWN HYROCARBON	23.825	12	J
4.				
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FORM I VOA-TIC

SW846 METHOD 8240A

8021 - STARS 1
NYTEST ENVIRONMENTAL INC.

VOLATILE ORGANICS ANALYSIS DATA SHEET

SAMPLE MATRIX: SOIL SAMPLE ID: GTLA03
CONC. LEVEL: LOW LAB ID: 2726001
DATE RECEIVED: 04/24/96 DIL FACTOR: 1.00
DATE ANALYZED: 04/26/96 % MOISTURE: 3

CMPD #	CAS Number	VOLATILE COMPOUNDS	UG/KG (DRY BASIS)
1	71-43-2	Benzene	1.0 U
2	100-41-4	Ethylbenzene	1.0 U
3	108-88-3	Toluene	0.8 J
4	95-47-6	o-Xylene	1.0 U
5	108-38-3/106-47-3	m&p-Xylene	1.0
6	98-82-8	Isopropylbenzene	1.0 U
7	103-65-1	n-Propylbenzene	1.0 U
8	99-87-6	p-Isopropyltoluene	1.0 U
9	95-63-6	1,2,4-Trimethylbenzene	1.0
10	108-67-8	1,3,5-Trimethylbenzene	1.0 U
11	104-51-8	n-Butylbenzene	1.0 U
12	135-98-8	sec-Butylbenzene	1.1
13	91-20-3	Naphthalene	1.0
14	1634-04-4	Methyl Tertiary Butyl Ether	5.2 U

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8021 - STARS 1
NYTEST ENVIRONMENTAL INC.

VOLATILE ORGANICS ANALYSIS DATA SHEET

SAMPLE MATRIX: SOIL SAMPLE ID: GTLA04
CONC. LEVEL: LOW LAB ID: 2726002
DATE RECEIVED: 04/24/96 DIL FACTOR: 1.00
DATE ANALYZED: 04/26/96 % MOISTURE: 4

CMPD #	CAS Number	VOLATILE COMPOUNDS	UG/KG (DRY BASIS)
1	71-43-2	Benzene	1.0 U
2	100-41-4	Ethylbenzene	1.0 U
3	108-88-3	Toluene	1.0 U
4	95-47-6	o-Xylene	1.0 U
5	108-38-3/106-47-3	m&p-Xylene	1.0 U
6	98-82-8	Isopropylbenzene	1.0 U
7	103-65-1	n-Propylbenzene	1.0 U
8	99-87-6	p-Isopropyltoluene	1.0 U
9	95-63-6	1,2,4-Trimethylbenzene	1.0 U
10	108-67-8	1,3,5-Trimethylbenzene	1.0 U
11	104-51-8	n-Butylbenzene	1.0 U
12	135-98-8	sec-Butylbenzene	4.9
13	91-20-3	Naphthalene	1.0 U
14	1634-04-4	Methyl Tertiary Butyl Ether	5.2 U

8021 - STARS 1
NYTEST ENVIRONMENTAL INC.

VOLATILE ORGANICS ANALYSIS DATA SHEET

SAMPLE MATRIX: SOIL SAMPLE ID: GTLA11
CONC. LEVEL: LOW LAB ID: 2726003
DATE RECEIVED: 04/24/96 DIL FACTOR: 1.00
DATE ANALYZED: 04/26/96 % MOISTURE: 4

CMPD #	CAS Number	VOLATILE COMPOUNDS	UG/KG (DRY BASIS)
1	71-43-2	Benzene	1.0 U
2	100-41-4	Ethylbenzene	1.0 U
3	108-88-3	Toluene	1.0 U
4	95-47-6	o-Xylene	1.0 U
5	108-38-3/106-47-3	m&p-Xylene	1.0 U
6	98-82-8	Isopropylbenzene	1.0 U
7	103-65-1	n-Propylbenzene	1.0 U
8	99-87-6	p-Isopropyltoluene	1.0 U
9	95-63-6	1,2,4-Trimethylbenzene	1.0 U
10	108-67-8	1,3,5-Trimethylbenzene	1.0 U
11	104-51-8	n-Butylbenzene	1.0 U
12	135-98-8	sec-Butylbenzene	1.0 U
13	91-20-3	Naphthalene	1.0 U
14	1634-04-4	Methyl Tertiary Butyl Ether	5.2 U

1B
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

SDSA01

Lab Name: NYTEST ENV INC.

Contract: 9622464

Lab Code: NYTEST

Case No.: 27279

SAS No.:

SDG No.: GAC1S

Matrix: (soil/water) SOIL

Lab Sample ID: 2727901

Sample wt/vol: 30.0 (g/mL) G

Lab File ID: S9691.D

Level: (low/med) LOW

Date Received: 04/25/96

% Moisture: not dec. 4 dec.

Date Extracted: 04/30/96

Extraction: (SepF/Cont/Sonc) SONC

Date Analyzed: 05/13/96

GPC Cleanup: (Y/N) N pH: 7.0

Dilution Factor: 1.0

CAS NO. COMPOUND CONCENTRATION UNITS:
(ug/L or ug/Kg) UG/KG Q

108-95-2	Phenol	350	U
111-44-4	bis(2-Chloroethyl) Ether	350	U
95-57-8	2-Chlorophenol	350	U
541-73-1	1,3-Dichlorobenzene	350	U
106-46-7	1,4-Dichlorobenzene	350	U
95-50-1	1,2-Dichlorobenzene	350	U
95-48-7	2-Methylphenol	350	U
108-60-1	2,2'-oxybis(1-Chloropropane)	350	U
106-44-5	4-Methylphenol	350	U
621-64-7	N-Nitroso-di-n-propylamine	350	U
67-72-1	Hexachloroethane	350	U
98-95-3	Nitrobenzene	350	U
78-59-1	Isophorone	350	U
88-75-5	2-Nitrophenol	350	U
105-67-9	2,4-Dimethylphenol	350	U
120-83-2	2,4-Dichlorophenol	350	U
120-82-1	1,2,4-Trichlorobenzene	350	U
91-20-3	Naphthalene	350	U
106-47-8	4-Chloroaniline	350	U
87-68-3	Hexachlorobutadiene	350	U
111-91-1	bis(2-Chloroethoxy) methane	350	U
59-50-7	4-Chloro-3-Methylphenol	350	U
91-57-6	2-Methylnaphthalene	350	U
77-47-4	Hexachlorocyclopentadiene	350	U
88-06-2	2,4,6-Trichlorophenol	350	U
95-95-4	2,4,5-Trichlorophenol	1700	U
91-58-7	2-Chloronaphthalene	350	U
88-74-4	2-Nitroaniline	1700	U
131-11-3	Dimethylphthalate	350	U
208-96-8	Acenaphthylene	350	U
606-20-2	2,6-Dinitrotoluene	350	U
99-09-2	3-Nitroaniline	1700	U
83-32-9	Acenaphthene	350	U

4-Methylphenol is being reported as the combination of 3 + 4 Methylphenol

FORM I SV-1

SW846 METHOD 8270A

000050

1F
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

SDSA01

Lab Name: NYTEST ENV INC.

Contract: 9622464

Lab Code: NYTEST

Case No.: 27279

SAS No.:

SDG No.: GAC1S

Matrix: (soil/water) SOIL

Lab Sample ID: 2727901

Sample wt/vol: 30.0 (g/mL) G

Lab File ID: S9691.D

Level: (low/med) LOW

Date Received: 04/25/96

% Moisture: not dec. 4 dec.

Date Extracted: 04/30/96

Extraction: (SepF/Cont/Sonc) SONC

Date Analyzed: 05/13/96

GPC Cleanup: (Y/N) N pH: 7.0

Dilution Factor: 1.0

Number TICs found: 21

CONCENTRATION UNITS:
(ug/L or ug/Kg) UG/KG

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1.	UNKNOWN	3.048	110	JB
2.	UNKNOWN	3.152	690	JB
3.	UNKNOWN	3.239	1500	JB
4.	UNKNOWN ALDOL	3.361	3600	AJB
5.	UNKNOWN HYDROCARBON	3.500	480	JB
6.	UNKNOWN	3.552	510	JB
7.	UNKNOWN	3.813	170	JB
8.	UNKNOWN	3.918	1800	JB
9.	UNKNOWN	4.040	130	JB
10.	UNKNOWN	4.127	2100	JB
11.	UNKNOWN	4.196	750	JB
12.	UNKNOWN	4.631	480	JB
13.	UNKNOWN	4.683	690	JB
14.	UNKNOWN	5.031	120	J
15.	UNKNOWN AROMATIC	5.814	190	JB
16.	UNKNOWN	6.005	100	JB
17.	UNKNOWN	6.632	120	JB
18.	UNKNOWN	6.841	170	JB
19.	UNKNOWN AROMATIC	7.102	120	J
20.	UNKNOWN	7.623	550	J
21.	UNKNOWN	16.670	160	J
22.				
23.				
24.				
25.				
26.				
27.				
28.				
29.				
30.				

1C
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

SDSA05

Lab Name: NYTEST ENV INC. Contract: 9622464
 Lab Code: NYTEST Case No.: 27279 SAS No.: SDG No.: GAC1S
 Matrix: (soil/water) SOIL Lab Sample ID: 2727902
 Sample wt/vol: 30.0 (g/mL) G Lab File ID: S9692.D
 Level: (low/med) LOW Date Received: 04/25/96
 % Moisture: not dec. 4 dec. Date Extracted: 04/30/96
 Extraction: (SepF/Cont/Sonc) SONC Date Analyzed: 05/13/96
 GPC Cleanup: (Y/N) N pH: 6.0 Dilution Factor: 1.0

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
51-28-5	2,4-Dinitrophenol	1700	U
100-02-7	4-Nitrophenol	1700	U
132-64-9	Dibenzofuran	350	U
121-14-2	2,4-Dinitrotoluene	350	U
84-66-2	Diethylphthalate	350	U
7005-72-3	4-Chlorophenyl-phenylether	350	U
86-73-7	Fluorene	350	U
100-01-6	4-Nitroaniline	1700	U
534-52-1	4,6-Dinitro-2-methylphenol	1700	U
86-30-6	N-Nitrosodiphenylamine (1)	350	U
101-55-3	4-Bromophenyl-phenylether	350	U
118-74-1	Hexachlorobenzene	350	U
87-86-5	Pentachlorophenol	1700	U
85-01-8	Phenanthrene	350	U
120-12-7	Anthracene	350	U
86-74-8	Carbazole	350	U
84-74-2	Di-n-butylphthalate	350	U
206-44-0	Fluoranthene	350	U
129-00-0	Pyrene	350	U
85-68-7	Butylbenzylphthalate	350	U
91-94-1	3,3'-Dichlorobenzidine	700	U
56-55-3	Benzo (a) anthracene	350	U
218-01-9	Chrysene	350	U
117-81-7	bis(2-Ethylhexyl)phthalate	350	U
117-84-0	Di-n-octylphthalate	350	U
205-99-2	Benzo (b) fluoranthene	350	U
207-08-9	Benzo (k) fluoranthene	350	U
50-32-8	Benzo (a) pyrene	350	U
193-39-5	Indeno (1,2,3-cd) pyrene	350	U
53-70-3	Dibenz (a, h) anthracene	350	U
191-24-2	Benzo (g, h, i) perylene	350	U
100-51-6	Benzyl Alcohol	350	U
65-85-0	Benzoic Acid	1700	U

(1) - Cannot be separated from Diphenylamine

FORM I SV-2

SW846 METHOD 8270A

000054

1F
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

SDSA05

Lab Name: NYTEST ENV INC.

Contract: 9622464

Lab Code: NYTEST

Case No.: 27279

SAS No.:

SDG No.: GAC1S

Matrix: (soil/water) SOIL

Lab Sample ID: 2727902

Sample wt/vol: 30.0 (g/mL) G

Lab File ID: S9692.D

Level: (low/med) LOW

Date Received: 04/25/96

% Moisture: not dec. 4 dec.

Date Extracted: 04/30/96

Extraction: (SepF/Cont/Sonc) SONC

Date Analyzed: 05/13/96

GPC Cleanup: (Y/N) N pH: 6.0

Dilution Factor: 1.0

Number TICs found: 21

CONCENTRATION UNITS:
(ug/L or ug/Kg) UG/KG

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1.	UNKNOWN	2.944	110	JB
2.	UNKNOWN	3.048	130	JB
3.	UNKNOWN	3.153	660	JB
4.	UNKNOWN	3.240	1600	JB
5.	UNKNOWN ALDOL	3.379	4100	JAB
6.	UNKNOWN	3.501	530	JB
7.	UNKNOWN	3.553	580	JB
8.	UNKNOWN	3.814	190	JB
9.	UNKNOWN	3.918	1900	JB
10.	UNKNOWN	4.040	160	JB
11.	UNKNOWN	4.127	2200	JB
12.	UNKNOWN	4.197	810	JB
13.	UNKNOWN	4.266	97	J
14.	UNKNOWN	4.631	530	JB
15.	UNKNOWN	4.858	74	JB
16.	UNKNOWN AROMATIC	5.762	130	JB
17.	UNKNOWN	5.989	130	JB
18.	UNKNOWN AROMATIC	6.632	130	J
19.	UNKNOWN	6.841	180	JB
20.	UNKNOWN	7.624	530	J
21.	UNKNOWN AROMATIC	16.671	2300	J
22.				
23.				
24.				
25.				
26.				
27.				
28.				
29.				
30.				

1B
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

SDSA09

Lab Name: NYTEST ENV INC.

Contract: 9622464

Lab Code: NYTEST

Case No.: 27279

SAS No.:

SDG No.: GAC1S

Matrix: (soil/water) SOIL

Lab Sample ID: 2727905

Sample wt/vol: 30.0 (g/mL) G

Lab File ID: S9696.D

Level: (low/med) LOW

Date Received: 04/25/96

% Moisture: not dec. 7 dec.

Date Extracted: 04/30/96

Extraction: (SepF/Cont/Sonc) SONC

Date Analyzed: 05/13/96

GPC Cleanup: (Y/N) N

pH: 7.0

Dilution Factor: 1.0

CAS NO. COMPOUND CONCENTRATION UNITS:
(ug/L or ug/Kg) UG/KG Q

108-95-2	Phenol	360	U
111-44-4	bis(2-Chloroethyl) Ether	360	U
95-57-8	2-Chlorophenol	360	U
541-73-1	1,3-Dichlorobenzene	360	U
106-46-7	1,4-Dichlorobenzene	360	U
95-50-1	1,2-Dichlorobenzene	360	U
95-48-7	2-Methylphenol	360	U
108-60-1	2,2'-oxybis(1-Chloropropane)	360	U
106-44-5	4-Methylphenol	360	U
621-64-7	N-Nitroso-di-n-propylamine	360	U
67-72-1	Hexachloroethane	360	U
98-95-3	Nitrobenzene	360	U
78-59-1	Isophorone	360	U
88-75-5	2-Nitrophenol	360	U
105-67-9	2,4-Dimethylphenol	360	U
120-83-2	2,4-Dichlorophenol	360	U
120-82-1	1,2,4-Trichlorobenzene	360	U
91-20-3	Naphthalene	360	U
106-47-8	4-Chloroaniline	360	U
87-68-3	Hexachlorobutadiene	360	U
111-91-1	bis(2-Chloroethoxy) methane	360	U
59-50-7	4-Chloro-3-Methylphenol	360	U
91-57-6	2-Methylnaphthalene	360	U
77-47-4	Hexachlorocyclopentadiene	360	U
88-06-2	2,4,6-Trichlorophenol	360	U
95-95-4	2,4,5-Trichlorophenol	1800	U
91-58-7	2-Chloronaphthalene	360	U
88-74-4	2-Nitroaniline	1800	U
131-11-3	Dimethylphthalate	360	U
208-96-8	Acenaphthylene	360	U
606-20-2	2,6-Dinitrotoluene	360	U
99-09-2	3-Nitroaniline	1800	U
83-32-9	Acenaphthene	360	U

4-Methylphenol is being reported as the combination of 3 + 4 Methylphenol

FORM I SV-1

SW846 METHOD 8270A

000056

1C
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

SDSA09

Lab Name: NYTEST ENV INC.

Contract: 9622464

Lab Code: NYTEST

Case No.: 27279

SAS No.:

SDG No.: GAC1S

Matrix: (soil/water) SOIL

Lab Sample ID: 2727905

Sample wt/vol: 30.0 (g/mL) G

Lab File ID: S9696.D

Level: (low/med) LOW

Date Received: 04/25/96

% Moisture: not dec. 7 dec.

Date Extracted: 04/30/96

Extraction: (SepF/Cont/Sonc) SONC

Date Analyzed: 05/13/96

GPC Cleanup: (Y/N) N pH: 7.0

Dilution Factor: 1.0

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
51-28-5-----	2,4-Dinitrophenol	1800	U
100-02-7-----	4-Nitrophenol	1800	U
132-64-9-----	Dibenzofuran	360	U
121-14-2-----	2,4-Dinitrotoluene	360	U
84-66-2-----	Diethylphthalate	360	U
7005-72-3-----	4-Chlorophenyl-phenylether	360	U
86-73-7-----	Fluorene	360	U
100-01-6-----	4-Nitroaniline	1800	U
534-52-1-----	4,6-Dinitro-2-methylphenol	1800	U
86-30-6-----	N-Nitrosodiphenylamine (1)	360	U
101-55-3-----	4-Bromophenyl-phenylether	360	U
118-74-1-----	Hexachlorobenzene	360	U
87-86-5-----	Pentachlorophenol	1800	U
85-01-8-----	Phenanthrene	360	U
120-12-7-----	Anthracene	360	U
86-74-8-----	Carbazole	360	U
84-74-2-----	Di-n-butylphthalate	360	U
206-44-0-----	Fluoranthene	360	U
129-00-0-----	Pyrene	360	U
85-68-7-----	Butylbenzylphthalate	360	U
91-94-1-----	3,3'-Dichlorobenzidine	710	U
56-55-3-----	Benzo(a)anthracene	360	U
218-01-9-----	Chrysene	360	U
117-81-7-----	bis(2-Ethylhexyl)phthalate	360	U
117-84-0-----	Di-n-octylphthalate	360	U
205-99-2-----	Benzo(b)fluoranthene	360	U
207-08-9-----	Benzo(k)fluoranthene	360	U
50-32-8-----	Benzo(a)pyrene	360	U
193-39-5-----	Indeno(1,2,3-cd)pyrene	360	U
53-70-3-----	Dibenz(a,h)anthracene	360	U
191-24-2-----	Benzo(g,h,i)perylene	360	U
100-51-6-----	Benzyl Alcohol	360	U
65-85-0-----	Benzoic Acid	1800	U

(1) - Cannot be separated from Diphenylamine

FORM I SV-2

SW846 METHOD 8270A

000057

1F
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

SDSAO9

Lab Name: NYTEST ENV INC.

Contract: 9622464

Lab Code: NYTEST

Case No.: 27279

SAS No.:

SDG No.: GAC1S

Matrix: (soil/water) SOIL

Lab Sample ID: 2727905

Sample wt/vol: 30.0 (g/mL) G

Lab File ID: S9696.D

Level: (low/med) LOW

Date Received: 04/25/96

% Moisture: not dec. 7 dec.

Date Extracted: 04/30/96

Extraction: (SepF/Cont/Sonc) SONC

Date Analyzed: 05/13/96

GPC Cleanup: (Y/N) N pH: 7.0

Dilution Factor: 1.0

Number TICs found: 21

CONCENTRATION UNITS:
(ug/L or ug/Kg) UG/KG

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
=====				
1.	UNKNOWN	2.944	110	JB
2.	UNKNOWN	3.049	110	JB
3.	UNKNOWN	3.153	720	JB
4.	UNKNOWN	3.240	1500	JB
5.	UNKNOWN ALDOL	3.379	3900	JAB
6.	UNKNOWN HYDROCARBON	3.501	500	JB
7.	UNKNOWN	3.553	540	JB
8.	UNKNOWN	3.814	190	JB
9.	UNKNOWN	3.918	1900	JB
10.	UNKNOWN	4.040	160	JB
11.	UNKNOWN	4.127	2200	JB
12.	UNKNOWN	4.197	810	JB
13.	UNKNOWN	4.632	550	JB
14.	UNKNOWN	5.032	150	J
15.	UNKNOWN AROMATIC	5.798	370	JB
16.	UNKNOWN	5.989	110	JB
17.	UNKNOWN	6.633	130	JB
18.	UNKNOWN	6.841	160	JB
19.	UNKNOWN AROMATIC	7.067	200	J
20.	UNKNOWN	7.624	540	J
21.	UNKNOWN AROMATIC	16.671	1200	J
22.				
23.				
24.				
25.				
26.				
27.				
28.				
29.				
30.				

FORM I SV-TIC

SW846 METHOD 8270A

000058

1B
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

SDSB03

Lab Name: NYTEST ENV INC.

Contract: 9622464

Lab Code: NYTEST

Case No.: 27279

SAS No.:

SDG No.: GAC1S

Matrix: (soil/water) SOIL

Lab Sample ID: 2729701

Sample wt/vol: 30.0 (g/mL) G

Lab File ID: S9697.D

Level: (low/med) LOW

Date Received: 04/26/96

% Moisture: not dec. 4 dec.

Date Extracted: 04/30/96

Extraction: (SepF/Cont/Sonc) SONC

Date Analyzed: 05/13/96

GPC Cleanup: (Y/N) N pH: 7.0

Dilution Factor: 1.0

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
108-95-2	Phenol	350	U
111-44-4	bis(2-Chloroethyl) Ether	350	U
95-57-8	2-Chlorophenol	350	U
541-73-1	1,3-Dichlorobenzene	350	U
106-46-7	1,4-Dichlorobenzene	350	U
95-50-1	1,2-Dichlorobenzene	350	U
95-48-7	2-Methylphenol	350	U
108-60-1	2,2'-oxybis(1-Chloropropane)	350	U
106-44-5	4-Methylphenol	350	U
621-64-7	N-Nitroso-di-n-propylamine	350	U
67-72-1	Hexachloroethane	350	U
98-95-3	Nitrobenzene	350	U
78-59-1	Isophorone	350	U
88-75-5	2-Nitrophenol	350	U
105-67-9	2,4-Dimethylphenol	350	U
120-83-2	2,4-Dichlorophenol	350	U
120-82-1	1,2,4-Trichlorobenzene	350	U
91-20-3	Naphthalene	350	U
106-47-8	4-Chloroaniline	350	U
87-68-3	Hexachlorobutadiene	350	U
111-91-1	bis(2-Chloroethoxy) methane	350	U
59-50-7	4-Chloro-3-Methylphenol	350	U
91-57-6	2-Methylnaphthalene	350	U
77-47-4	Hexachlorocyclopentadiene	350	U
88-06-2	2,4,6-Trichlorophenol	350	U
95-95-4	2,4,5-Trichlorophenol	1700	U
91-58-7	2-Chloronaphthalene	350	U
88-74-4	2-Nitroaniline	1700	U
131-11-3	Dimethylphthalate	350	U
208-96-8	Acenaphthylene	350	U
606-20-2	2,6-Dinitrotoluene	350	U
99-09-2	3-Nitroaniline	1700	U
83-32-9	Acenaphthene	350	U

4-Methylphenol is being reported as the combination of 3 + 4 Methylphenol

FORM I SV-1

SW846 METHOD 8270A

000059

1C
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

SDSB03

Lab Name: NYTEST ENV INC.

Contract: 9622464

Lab Code: NYTEST

Case No.: 27279

SAS No.:

SDG No.: GAC1S

Matrix: (soil/water) SOIL

Lab Sample ID: 2729701

Sample wt/vol: 30.0 (g/mL) G

Lab File ID: S9697.D

Level: (low/med) LOW

Date Received: 04/26/96

% Moisture: not dec. 4 dec.

Date Extracted: 04/30/96

Extraction: (SepF/Cont/Sonc) SONC

Date Analyzed: 05/13/96

GPC Cleanup: (Y/N) N pH: 7.0

Dilution Factor: 1.0

CAS NO. COMPOUND CONCENTRATION UNITS:
(ug/L or ug/Kg) UG/KG Q

51-28-5-----	2,4-Dinitrophenol	1700	U
100-02-7-----	4-Nitrophenol	1700	U
132-64-9-----	Dibenzofuran	350	U
121-14-2-----	2,4-Dinitrotoluene	350	U
84-66-2-----	Diethylphthalate	350	U
7005-72-3-----	4-Chlorophenyl-phenylether	350	U
86-73-7-----	Fluorene	350	U
100-01-6-----	4-Nitroaniline	1700	U
534-52-1-----	4,6-Dinitro-2-methylphenol	1700	U
86-30-6-----	N-Nitrosodiphenylamine (1)	350	U
101-55-3-----	4-Bromophenyl-phenylether	350	U
118-74-1-----	Hexachlorobenzene	350	U
87-86-5-----	Pentachlorophenol	1700	U
85-01-8-----	Phenanthrene	350	U
120-12-7-----	Anthracene	350	U
86-74-8-----	Carbazole	350	U
84-74-2-----	Di-n-butylphthalate	350	U
206-44-0-----	Fluoranthene	350	U
129-00-0-----	Pyrene	350	U
85-68-7-----	Butylbenzylphthalate	350	U
91-94-1-----	3,3'-Dichlorobenzidine	690	U
56-55-3-----	Benzo(a)anthracene	350	U
218-01-9-----	Chrysene	350	U
117-81-7-----	bis(2-Ethylhexyl)phthalate	350	U
117-84-0-----	Di-n-octylphthalate	350	U
205-99-2-----	Benzo(b)fluoranthene	350	U
207-08-9-----	Benzo(k)fluoranthene	350	U
50-32-8-----	Benzo(a)pyrene	350	U
193-39-5-----	Indeno(1,2,3-cd)pyrene	350	U
53-70-3-----	Dibenz(a,h)anthracene	350	U
191-24-2-----	Benzo(g,h,i)perylene	350	U
100-51-6-----	Benzyl Alcohol	350	U
65-85-0-----	Benzoic Acid	1700	U

(1) - Cannot be separated from Diphenylamine

FORM I SV-2

SW846 METHOD 8270A

000060

1F
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

SDSB03

Lab Name: NYTEST ENV INC.

Contract: 9622464

Lab Code: NYTEST

Case No.: 27279

SAS No.:

SDG No.: GAC1S

Matrix: (soil/water) SOIL

Lab Sample ID: 2729701

Sample wt/vol: 30.0 (g/mL) G

Lab File ID: S9697.D

Level: (low/med) LOW

Date Received: 04/26/96

% Moisture: not dec. 4 dec.

Date Extracted: 04/30/96

Extraction: (SepF/Cont/Sonc) SONC

Date Analyzed: 05/13/96

GPC Cleanup: (Y/N) N pH: 7.0

Dilution Factor: 1.0

Number TICs found: 21

CONCENTRATION UNITS:
(ug/L or ug/Kg) UG/KG

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1.	UNKNOWN	2.944	120	JB
2.	UNKNOWN	3.048	110	JB
3.	UNKNOWN	3.153	720	JB
4.	UNKNOWN	3.240	1500	JB
5.	UNKNOWN ALDOL	3.362	3700	JAB
6.	UNKNOWN HYDROCARBON	3.501	460	JB
7.	UNKNOWN	3.553	520	JB
8.	UNKNOWN	3.814	180	JB
9.	UNKNOWN	3.918	1600	JB
10.	UNKNOWN	4.127	2100	JB
11.	UNKNOWN	4.197	730	JB
12.	UNKNOWN	4.266	110	J
13.	UNKNOWN	4.632	490	JB
14.	UNKNOWN	5.032	170	J
15.	UNKNOWN	5.258	110	J
16.	UNKNOWN	6.180	120	J
17.	UNKNOWN	6.632	100	JB
18.	UNKNOWN	6.841	110	JB
19.	UNKNOWN	7.137	100	J
20.	UNKNOWN	7.624	430	J
21.	UNKNOWN AROMATIC	16.671	270	J
22.				
23.				
24.				
25.				
26.				
27.				
28.				
29.				
30.				

FORM I SV-TIC

SW846 METHOD 8270A

000061

1B
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

SDSB04

Lab Name: NYTEST ENV INC.

Contract: 9622464

Lab Code: NYTEST

Case No.: 27279

SAS No.:

SDG No.: GAC1S

Matrix: (soil/water) SOIL

Lab Sample ID: 2729702

Sample wt/vol: 30.0 (g/mL) G

Lab File ID: S9698.D

Level: (low/med) LOW

Date Received: 04/26/96

% Moisture: not dec. 4 dec.

Date Extracted: 04/30/96

Extraction: (SepF/Cont/Sonc) SONC

Date Analyzed: 05/13/96

GPC Cleanup: (Y/N) N

pH: 6.6

Dilution Factor: 1.0

CAS NO. COMPOUND CONCENTRATION UNITS:
(ug/L or ug/Kg) UG/KG Q

108-95-2	Phenol	350	U
111-44-4	bis(2-Chloroethyl) Ether	350	U
95-57-8	2-Chlorophenol	350	U
541-73-1	1,3-Dichlorobenzene	350	U
106-46-7	1,4-Dichlorobenzene	350	U
95-50-1	1,2-Dichlorobenzene	350	U
95-48-7	2-Methylphenol	350	U
108-60-1	2,2'-oxybis(1-Chloropropane)	350	U
106-44-5	4-Methylphenol	350	U
621-64-7	N-Nitroso-di-n-propylamine	350	U
67-72-1	Hexachloroethane	350	U
98-95-3	Nitrobenzene	350	U
78-59-1	Isophorone	350	U
88-75-5	2-Nitrophenol	350	U
105-67-9	2,4-Dimethylphenol	350	U
120-83-2	2,4-Dichlorophenol	350	U
120-82-1	1,2,4-Trichlorobenzene	350	U
91-20-3	Naphthalene	350	U
106-47-8	4-Chloroaniline	350	U
87-68-3	Hexachlorobutadiene	350	U
111-91-1	bis(2-Chloroethoxy) methane	350	U
59-50-7	4-Chloro-3-Methylphenol	350	U
91-57-6	2-Methylnaphthalene	350	U
77-47-4	Hexachlorocyclopentadiene	350	U
88-06-2	2,4,6-Trichlorophenol	350	U
95-95-4	2,4,5-Trichlorophenol	1700	U
91-58-7	2-Chloronaphthalene	350	U
88-74-4	2-Nitroaniline	1700	U
131-11-3	Dimethylphthalate	350	U
208-96-8	Acenaphthylene	350	U
606-20-2	2,6-Dinitrotoluene	350	U
99-09-2	3-Nitroaniline	1700	U
83-32-9	Acenaphthene	350	U

4-Methylphenol is being reported as the combination of 3 + 4 Methylphenol

FORM I SV-1

SW846 METHOD 8270A

000062

1C
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

SDSB04

Lab Name: NYTEST ENV INC.

Contract: 9622464

Lab Code: NYTEST

Case No.: 27279

SAS No.:

SDG No.: GAC1S

Matrix: (soil/water) SOIL

Lab Sample ID: 2729702

Sample wt/vol: 30.0 (g/mL) G

Lab File ID: S9698.D

Level: (low/med) LOW

Date Received: 04/26/96

% Moisture: not dec. 4 dec.

Date Extracted: 04/30/96

Extraction: (SepF/Cont/Sonc) SONC

Date Analyzed: 05/13/96

GPC Cleanup: (Y/N) N

pH: 6.6

Dilution Factor: 1.0

CAS NO. COMPOUND CONCENTRATION UNITS:
(ug/L or ug/Kg) UG/KG Q

51-28-5-----	2,4-Dinitrophenol	1700	U
100-02-7-----	4-Nitrophenol	1700	U
132-64-9-----	Dibenzofuran	350	U
121-14-2-----	2,4-Dinitrotoluene	350	U
84-66-2-----	Diethylphthalate	350	U
7005-72-3-----	4-Chlorophenyl-phenylether	350	U
86-73-7-----	Fluorene	350	U
100-01-6-----	4-Nitroaniline	1700	U
534-52-1-----	4,6-Dinitro-2-methylphenol	1700	U
86-30-6-----	N-Nitrosodiphenylamine (1)	350	U
101-55-3-----	4-Bromophenyl-phenylether	350	U
118-74-1-----	Hexachlorobenzene	350	U
87-86-5-----	Pentachlorophenol	1700	U
85-01-8-----	Phenanthrene	350	U
120-12-7-----	Anthracene	350	U
86-74-8-----	Carbazole	350	U
84-74-2-----	Di-n-butylphthalate	350	U
206-44-0-----	Fluoranthene	350	U
129-00-0-----	Pyrene	350	U
85-68-7-----	Butylbenzylphthalate	350	U
91-94-1-----	3,3'-Dichlorobenzidine	700	U
56-55-3-----	Benzo(a)anthracene	350	U
218-01-9-----	Chrysene	350	U
117-81-7-----	bis(2-Ethylhexyl)phthalate	37	J
117-84-0-----	Di-n-octylphthalate	350	U
205-99-2-----	Benzo(b)fluoranthene	350	U
207-08-9-----	Benzo(k)fluoranthene	350	U
50-32-8-----	Benzo(a)pyrene	350	U
193-39-5-----	Indeno(1,2,3-cd)pyrene	350	U
53-70-3-----	Dibenz(a,h)anthracene	350	U
191-24-2-----	Benzo(g,h,i)perylene	350	U
100-51-6-----	Benzyl Alcohol	350	U
65-85-0-----	Benzoic Acid	1700	U

(1) - Cannot be separated from Diphenylamine

FORM I SV-2

SW846 METHOD 8270A

000063

1F
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

SDSB04

Lab Name: NYTEST ENV INC.

Contract: 9622464

Lab Code: NYTEST

Case No.: 27279

SAS No.:

SDG No.: GAC1S

Matrix: (soil/water) SOIL

Lab Sample ID: 2729702

Sample wt/vol: 30.0 (g/mL) G

Lab File ID: S9698.D

Level: (low/med) LOW

Date Received: 04/26/96

% Moisture: not dec. 4 dec.

Date Extracted: 04/30/96

Extraction: (SepF/Cont/Sonc) SONC

Date Analyzed: 05/13/96

GPC Cleanup: (Y/N) N pH: 6.6

Dilution Factor: 1.0

Number TICs found: 21

CONCENTRATION UNITS:
(ug/L or ug/Kg) UG/KG

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1.	UNKNOWN	3.014	4800	JB
2.	UNKNOWN	3.153	760	JB
3.	UNKNOWN	3.240	6900	JB
4.	UNKNOWN ALDOL	3.397	6300	JAB
5.	UNKNOWN HYDROCARBON	3.484	470	JB
6.	UNKNOWN	3.554	640	JB
7.	UNKNOWN	3.675	330	J
8.	UNKNOWN	3.762	380	JB
9.	UNKNOWN	3.832	680	JB
10.	UNKNOWN	3.919	1600	JB
11.	UNKNOWN	4.128	2300	JB
12.	UNKNOWN	4.197	320	JB
13.	UNKNOWN	4.406	560	J
14.	UNKNOWN	4.632	560	JB
15.	UNKNOWN	5.224	490	J
16.	UNKNOWN	5.519	480	J
17.	UNKNOWN	5.920	310	JB
18.	UNKNOWN	6.181	230	J
19.	UNKNOWN	6.650	280	JB
20.	UNKNOWN	7.625	340	J
21.	UNKNOWN AROMATIC	16.672	710	J
22.				
23.				
24.				
25.				
26.				
27.				
28.				
29.				
30.				

FORM I SV-TIC

SW846 METHOD 8270A

000064

1C
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

SDSB11

Lab Name: NYTEST ENV INC.

Contract: 9622464

Lab Code: NYTEST

Case No.: 27279

SAS No.:

SDG No.: GAC1S

Matrix: (soil/water) SOIL

Lab Sample ID: 2729703

Sample wt/vol: 30.0 (g/mL) G

Lab File ID: S9699.D

Level: (low/med) LOW

Date Received: 04/26/96

% Moisture: not dec. 19 dec.

Date Extracted: 04/30/96

Extraction: (SepF/Cont/Sonc) SONC

Date Analyzed: 05/13/96

GPC Cleanup: (Y/N) N pH: 6.0

Dilution Factor: 1.0

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
51-28-5-----	2,4-Dinitrophenol	2100	U
100-02-7-----	4-Nitrophenol	2100	U
132-64-9-----	Dibenzofuran	410	U
121-14-2-----	2,4-Dinitrotoluene	410	U
84-66-2-----	Diethylphthalate	410	U
7005-72-3-----	4-Chlorophenyl-phenylether	410	U
86-73-7-----	Fluorene	410	U
100-01-6-----	4-Nitroaniline	2100	U
534-52-1-----	4,6-Dinitro-2-methylphenol	2100	U
86-30-6-----	N-Nitrosodiphenylamine (1)	410	U
101-55-3-----	4-Bromophenyl-phenylether	410	U
118-74-1-----	Hexachlorobenzene	410	U
87-86-5-----	Pentachlorophenol	2100	U
85-01-8-----	Phenanthrene	410	U
120-12-7-----	Anthracene	410	U
86-74-8-----	Carbazole	410	U
84-74-2-----	Di-n-butylphthalate	410	U
206-44-0-----	Fluoranthene	410	U
129-00-0-----	Pyrene	410	U
85-68-7-----	Butylbenzylphthalate	410	U
91-94-1-----	3,3'-Dichlorobenzidine	820	U
56-55-3-----	Benzo(a)anthracene	410	U
218-01-9-----	Chrysene	410	U
117-81-7-----	bis(2-Ethylhexyl)phthalate	410	U
117-84-0-----	Di-n-octylphthalate	410	U
205-99-2-----	Benzo(b)fluoranthene	410	U
207-08-9-----	Benzo(k)fluoranthene	410	U
50-32-8-----	Benzo(a)pyrene	410	U
193-39-5-----	Indeno(1,2,3-cd)pyrene	410	U
53-70-3-----	Dibenz(a,h)anthracene	410	U
191-24-2-----	Benzo(g,h,i)perylene	410	U
100-51-6-----	Benzyl Alcohol	410	U
65-85-0-----	Benzoic Acid	2100	U

(1) - Cannot be separated from Diphenylamine

FORM I SV-2

SW846 METHOD 8270A

000066

TPHC 310-13
REPORT OF ANALYSIS

Login No.: 27279,27297

We find as follows:

Results in ppm, mg/kg (Dry wt.): Matrix : SOIL

Parameter(s) -----	Sample Identification -----				
Sample ID	SDSA01	SDSA05	SDSA09	SDSB03	SDSB04
Lab ID	2727901	2727902	2727905	2729701	2729702
Date Extracted	04/29/96	04/29/96	04/29/96	04/29/96	04/29/96
Date Analyzed	04/29/96	04/29/96	04/29/96	04/30/96	04/30/96
% Moisture	4	4	7	4	4
Dilution factor	1	1	1	1	1
Gasoline	78 U	78 U	81 U	78 U	78 U
TPH (as Gasoline)	ND	ND	ND	ND	ND
Kerosene	78 U	78 U	81 U	78 U	78 U
TPH (as Kerosene)	ND	ND	ND	ND	ND
#2 Fuel Oil	78 U	78 U	81 U	78 U	78 U
TPH (as #2 Fuel Oil)	ND	ND	ND	ND	ND
#6 Fuel Oil	78 U	78 U	81 U	78 U	78 U
TPH (as #6 Fuel Oil)	ND	ND	ND	ND	ND
Lubricating Oil	78 U	78 U	81 U	78 U	78 U
TPH (as Lubricating Oil)	ND	ND	ND	ND	ND

ND = Not Detected

* TPH (as...) = Total Petroleum hydrocarbons quantitated as a particular hydrocarbon, however, peak pattern does not match that of the hydrocarbon reference standards.

ac:\123\gc\310-13\soil

REV 07/95

000068

TPHC 310-13
REPORT OF ANALYSIS

Login No. : 27279,27297

We find as follows:

Results in ppm, mg/kg (Dry wt.): Matrix : SOIL

Parameter(s) Sample Identification

Sample ID SDSB11
Lab ID 2729703
Date Extracted 04/29/96
Date Analyzed 04/30/96
% Moisture 19
Dilution factor 1

Gasoline 93 U
TPH (as Gasoline) ND
Kerosene 93 U
TPH (as Kerosene) ND
#2 Fuel Oil 93 U
TPH (as #2 Fuel Oil) ND
#6 Fuel Oil 93 U
TPH (as #6 Fuel Oil) ND
Lubricating Oil 93 U
TPH (as Lubricating Oil) ND

ND = Not Detected

* TPH (as...) = Total Petroleum hydrocarbons quantitated as a particular hydrocarbon, however, peak pattern does not match that of the hydrocarbon reference standards.

ac:\123\gc\310-13\soil

REV 07/95

000069

1A
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

FDA01

Lab Name: NYTEST ENV INC. Contract: 9622464
 Lab Code: NYTEST Case No.: 28196 SAS No.: SDG No.: GAC4
 Matrix: (soil/water) SOIL Lab Sample ID: 2819604
 Sample wt/vol: 5.0 (g/mL) G Lab File ID: N8991.D
 Level: (low/med) LOW Date Received: 06/28/96
 % Moisture: not dec. 4 Data Analyzed: 07/05/96
 Column: (pack/cap) CAP Dilution Factor: 1.0

CONCENTRATION UNITS:
(ug/L or ug/Kg) UG/KG

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
74-87-3	-----Chloromethane	10	U
74-83-9	-----Bromomethane	10	U
75-01-4	-----Vinyl Chloride	10	U
75-00-3	-----Chloroethane	10	U
75-09-2	-----Methylene Chloride	9	JB
67-64-1	-----Acetone	11	
75-15-0	-----Carbon Disulfide	10	U
75-35-4	-----1,1-Dichloroethene	10	U
75-34-3	-----1,1-Dichloroethane	10	U
540-59-0	-----1,2-Dichloroethene (total)	10	U
67-66-3	-----Chloroform	10	U
107-06-2	-----1,2-Dichloroethane	10	U
78-93-3	-----2-Butanone	10	U
71-55-6	-----1,1,1-Trichloroethane	10	U
56-23-5	-----Carbon Tetrachloride	10	U
75-27-4	-----Bromodichloromethane	10	U
78-87-5	-----1,2-Dichloropropane	10	U
10061-01-5	-----cis-1,3-Dichloropropene	10	U
79-01-6	-----Trichloroethene	10	U
124-48-1	-----Dibromochloromethane	10	U
79-00-5	-----1,1,2-Trichloroethane	10	U
71-43-2	-----Benzene	10	U
10061-02-6	-----trans-1,3-Dichloropropene	10	U
75-25-2	-----Bromoform	10	U
108-10-1	-----4-Methyl-2-Pentanone	10	U
591-78-6	-----2-Hexanone	10	U
127-18-4	-----Tetrachloroethene	10	U
79-34-5	-----1,1,2,2-Tetrachloroethane	10	U
108-88-3	-----Toluene	10	U
108-90-7	-----Chlorobenzene	10	U
100-41-4	-----Ethylbenzene	10	U
100-42-5	-----Styrene	10	U
1330-20-7	-----Xylene (total)	10	U
108-05-4	-----Vinyl Acetate	10	U

000017

FORM I VOA

SW846 METHOD 8240A

1E
VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

FDA04

Lab Name: NYTEST ENV INC.

Contract: 9622464

Lab Code: NYTEST

Case No.: 28196

SAS No.:

SDG No.: GAC4

Matrix: (soil/water) SOIL

Lab Sample ID: 2819608

Sample wt/vol: 5.0 (g/mL) G

Lab File ID: N8995.D

Level: (low/med) LOW

Date Received: 06/28/96

% Moisture: not dec. 2

Data Analyzed: 07/05/96

Column: (pack/cap) CAP

Dilution Factor: 1.0

Number TICs found: 1

CONCENTRATION UNITS:
(ug/L or ug/Kg) UG/KG

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1.	UNKNOWN	21.206	7	J
2.				
3.				
4.				
5.				
6.				
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8.				
9.				
10.				
11.				
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000022

FORM I VOA-TIC

SW846 METHOD 8240A

1A
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

FLDBLK

Lab Name: NYTEST ENV INC.

Contract: 9622464

Lab Code: NYTEST

Case No.: 28196

SAS No.:

SDG No.: GAC4

Matrix: (soil/water) WATER

Lab Sample ID: 2819609

Sample wt/vol: 5.0 (g/mL) ML

Lab File ID: M0799.D

Level: (low/med) LOW

Date Received: 06/28/96

% Moisture: not dec. _____

Data Analyzed: 07/05/96

Column: (pack/cap) CAP

Dilution Factor: 1.0

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
74-87-3	-----Chloromethane	10	U
74-83-9	-----Bromomethane	10	U
75-01-4	-----Vinyl Chloride	10	U
75-00-3	-----Chloroethane	10	U
75-09-2	-----Methylene Chloride	8	JB
67-64-1	-----Acetone	10	U
75-15-0	-----Carbon Disulfide	10	U
75-35-4	-----1,1-Dichloroethene	10	U
75-34-3	-----1,1-Dichloroethane	10	U
540-59-0	-----1,2-Dichloroethene (total)	10	U
67-66-3	-----Chloroform	10	U
107-06-2	-----1,2-Dichloroethane	10	U
78-93-3	-----2-Butanone	10	U
71-55-6	-----1,1,1-Trichloroethane	10	U
56-23-5	-----Carbon Tetrachloride	10	U
75-27-4	-----Bromodichloromethane	10	U
78-87-5	-----1,2-Dichloropropane	10	U
10061-01-5	-----cis-1,3-Dichloropropene	10	U
79-01-6	-----Trichloroethene	10	U
124-48-1	-----Dibromochloromethane	10	U
79-00-5	-----1,1,2-Trichloroethane	10	U
71-43-2	-----Benzene	10	U
10061-02-6	-----trans-1,3-Dichloropropene	10	U
75-25-2	-----Bromoform	10	U
108-10-1	-----4-Methyl-2-Pentanone	10	U
591-78-6	-----2-Hexanone	10	U
127-18-4	-----Tetrachloroethene	10	U
79-34-5	-----1,1,2,2-Tetrachloroethane	10	U
108-88-3	-----Toluene	10	U
108-90-7	-----Chlorobenzene	10	U
100-41-4	-----Ethylbenzene	10	U
100-42-5	-----Styrene	10	U
1330-20-7	-----Xylene (total)	10	U
108-05-4	-----Vinyl Acetate	10	U

000023

FORM I VOA

SW846 METHOD 8240A

1E
VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

FLDBLK

Lab Name: NYTEST ENV INC.

Contract: 9622464

Lab Code: NYTEST

Case No.: 28196

SAS No.:

SDG No.: GAC4

Matrix: (soil/water) WATER

Lab Sample ID: 2819609

Sample wt/vol: 5.0 (g/mL) ML

Lab File ID: M0799.D

Level: (low/med) LOW

Date Received: 06/28/96

% Moisture: not dec. _____

Data Analyzed: 07/05/96

Column: (pack/cap) CAP

Dilution Factor: 1.0

Number TICs found: 0

CONCENTRATION UNITS:
(ug/L or ug/Kg) UG/L

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1.				
2.				
3.				
4.				
5.				
6.				
7.				
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9.				
10.				
11.				
12.				
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28.				
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30.				

000024

FORM I VOA-TIC

SW846 METHOD 8240A

1E
VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

PRA01

Lab Name: NYTEST ENV. INC.

Contract: 9622464

Lab Code: NYTEST

Case No.: 28196

SAS No.:

SDG No.: GAC4

Matrix: (soil/water) SOIL

Lab Sample ID: 2819601

Sample wt/vol: 5.0 (g/mL) G

Lab File ID: N8997.D

Level: (low/med) LOW

Date Received: 06/28/96

% Moisture: not dec. 4

Data Analyzed: 07/05/96

Column: (pack/cap) CAP

Dilution Factor: 1.0

Number TICs found: 0

CONCENTRATION UNITS:
(ug/L or ug/Kg) UG/KG

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1.				
2.				
3.				
4.				
5.				
6.				
7.				
8.				
9.				
10.				
11.				
12.				
13.				
14.				
15.				
16.				
17.				
18.				
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25.				
26.				
27.				
28.				
29.				
30.				

000026

FORM I VOA-TIC

SW846 METHOD 8240A

1A
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

PRA02

Lab Name: NYTEST ENV INC.

Contract: 9622464

Lab Code: NYTEST

Case No.: 28196

SAS No.:

SDG No.: GAC4

Matrix: (soil/water) SOIL

Lab Sample ID: 2819602

Sample wt/vol: 5.0 (g/mL) G

Lab File ID: N8998.D

Level: (low/med) LOW

Date Received: 06/28/96

% Moisture: not dec. 18

Data Analyzed: 07/05/96

Column: (pack/cap) CAP

Dilution Factor: 1.0

CONCENTRATION UNITS:

CAS NO. COMPOUND (ug/L or ug/Kg) UG/KG Q

74-87-3	-----Chloromethane	12	U
74-83-9	-----Bromomethane	12	U
75-01-4	-----Vinyl Chloride	12	U
75-00-3	-----Chloroethane	12	U
75-09-2	-----Methylene Chloride	6	JB
67-64-1	-----Acetone	22	
75-15-0	-----Carbon Disulfide	12	U
75-35-4	-----1,1-Dichloroethene	12	U
75-34-3	-----1,1-Dichloroethane	12	U
540-59-0	-----1,2-Dichloroethene (total)	12	U
67-66-3	-----Chloroform	12	U
107-06-2	-----1,2-Dichloroethane	12	U
78-93-3	-----2-Butanone	12	U
71-55-6	-----1,1,1-Trichloroethane	12	U
56-23-5	-----Carbon Tetrachloride	12	U
75-27-4	-----Bromodichloromethane	12	U
78-87-5	-----1,2-Dichloropropane	12	U
10061-01-5	-----cis-1,3-Dichloropropene	12	U
79-01-6	-----Trichloroethene	12	U
124-48-1	-----Dibromochloromethane	12	U
79-00-5	-----1,1,2-Trichloroethane	12	U
71-43-2	-----Benzene	12	U
10061-02-6	-----trans-1,3-Dichloropropene	12	U
75-25-2	-----Bromoform	12	U
108-10-1	-----4-Methyl-2-Pentanone	12	U
591-78-6	-----2-Hexanone	12	U
127-18-4	-----Tetrachloroethene	12	U
79-34-5	-----1,1,2,2-Tetrachloroethane	12	U
108-88-3	-----Toluene	12	U
108-90-7	-----Chlorobenzene	12	U
100-41-4	-----Ethylbenzene	12	U
100-42-5	-----Styrene	12	U
1330-20-7	-----Xylene (total)	12	U
108-05-4	-----Vinyl Acetate	12	U

000027

1E
VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

PRA02

Lab Name: NYTEST ENV INC. Contract: 9622464
 Lab Code: NYTEST Case No.: 28196 SAS No.: SDG No.: GAC4
 Matrix: (soil/water) SOIL Lab Sample ID: 2819602
 Sample wt/vol: 5.0 (g/mL) G Lab File ID: N8998.D
 Level: (low/med) LOW Date Received: 06/28/96
 % Moisture: not dec. 18 Data Analyzed: 07/05/96
 Column: (pack/cap) CAP Dilution Factor: 1.0

Number TICs found: 2 CONCENTRATION UNITS:
(ug/L or ug/Kg) UG/KG

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1.	UNKNOWN	23.543	9	J
2.	UNKNOWN AROMATIC	27.721	9	J
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000028

FORM I VOA-TIC

SW846 METHOD 8240A

1A
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

PRA03

Lab Name: NYTEST ENV INC. Contract: 9622464
 Lab Code: NYTEST Case No.: 28196 SAS No.: SDG No.: GAC4
 Matrix: (soil/water) SOIL Lab Sample ID: 2819603
 Sample wt/vol: 5.0 (g/mL) G Lab File ID: N8999.D
 Level: (low/med) LOW Date Received: 06/28/96
 % Moisture: not dec. 3 Data Analyzed: 07/05/96
 Column: (pack/cap) CAP Dilution Factor: 1.0

CONCENTRATION UNITS:
(ug/L or ug/Kg) UG/KG

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
74-87-3	-----Chloromethane	10	U
74-83-9	-----Bromomethane	10	U
75-01-4	-----Vinyl Chloride	10	U
75-00-3	-----Chloroethane	10	U
75-09-2	-----Methylene Chloride	5	JB
67-64-1	-----Acetone	10	U
75-15-0	-----Carbon Disulfide	10	U
75-35-4	-----1,1-Dichloroethene	10	U
75-34-3	-----1,1-Dichloroethane	10	U
540-59-0	-----1,2-Dichloroethene (total)	10	U
67-66-3	-----Chloroform	10	U
107-06-2	-----1,2-Dichloroethane	10	U
78-93-3	-----2-Butanone	10	U
71-55-6	-----1,1,1-Trichloroethane	10	U
56-23-5	-----Carbon Tetrachloride	10	U
75-27-4	-----Bromodichloromethane	10	U
78-87-5	-----1,2-Dichloropropane	10	U
10061-01-5	-----cis-1,3-Dichloropropene	10	U
79-01-6	-----Trichloroethene	10	U
124-48-1	-----Dibromochloromethane	10	U
79-00-5	-----1,1,2-Trichloroethane	10	U
71-43-2	-----Benzene	10	U
10061-02-6	-----trans-1,3-Dichloropropene	10	U
75-25-2	-----Bromoform	10	U
108-10-1	-----4-Methyl-2-Pentanone	10	U
591-78-6	-----2-Hexanone	10	U
127-18-4	-----Tetrachloroethene	10	U
79-34-5	-----1,1,2,2-Tetrachloroethane	10	U
108-88-3	-----Toluene	10	U
108-90-7	-----Chlorobenzene	10	U
100-41-4	-----Ethylbenzene	10	U
100-42-5	-----Styrene	10	U
1330-20-7	-----Xylene (total)	10	U
108-05-4	-----Vinyl Acetate	10	U

000029

FORM I VOA

SW846 METHOD 8240A

1E
VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

PRA03

Lab Name: NYTEST ENV INC. Contract: 9622464

Lab Code: NYTEST Case No.: 28196 SAS No.: SDG No.: GAC4

Matrix: (soil/water) SOIL Lab Sample ID: 2819603

Sample wt/vol: 5.0 (g/mL) G Lab File ID: N8999.D

Level: (low/med) LOW Date Received: 06/28/96

% Moisture: not dec. 3 Data Analyzed: 07/05/96

Column: (pack/cap) CAP Dilution Factor: 1.0

Number TICs found: 1 CONCENTRATION UNITS:
(ug/L or ug/Kg) UG/KG

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1.	UNKNOWN	21.204	16	J
2.				
3.				
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000030

FORM I VOA-TIC

SW846 METHOD 8240A

1B
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

FDA01

Lab Name: NYTEST ENV INC

Contract: 9622354

Lab Code: NYTEST

Case No.: 28196

SAS No.:

SDG No.: GAC4S

Matrix: (soil/water) SOIL

Lab Sample ID: 2819604

Sample wt/vol: 30.0 (g/mL) G

Lab File ID: Q2487.D

Level: (low/med) LOW

Date Received: 06/28/96

% Moisture: not dec. 4 dec.

Date Extracted: 07/03/96

Extraction: (SepF/Cont/Sonc) SONC

Date Analyzed: 07/10/96

GPC Cleanup: (Y/N) N

pH: 7.1

Dilution Factor: 1.0

CAS NO. COMPOUND CONCENTRATION UNITS:
(ug/L or ug/Kg) UG/KG Q

108-95-2	Phenol	350	U
111-44-4	bis (2-Chloroethyl) Ether	350	U
95-57-8	2-Chlorophenol	350	U
541-73-1	1,3-Dichlorobenzene	350	U
106-46-7	1,4-Dichlorobenzene	350	U
95-50-1	1,2-Dichlorobenzene	350	U
95-48-7	2-Methylphenol	350	U
108-60-1	2,2'-oxybis (1-Chloropropane)	350	U
106-44-5	4-Methylphenol	350	U
621-64-7	N-Nitroso-di-n-propylamine	350	U
67-72-1	Hexachloroethane	350	U
98-95-3	Nitrobenzene	350	U
78-59-1	Isophorone	350	U
88-75-5	2-Nitrophenol	350	U
105-67-9	2,4-Dimethylphenol	350	U
120-83-2	2,4-Dichlorophenol	350	U
120-82-1	1,2,4-Trichlorobenzene	350	U
91-20-3	Naphthalene	350	U
106-47-8	4-Chloroaniline	350	U
87-68-3	Hexachlorobutadiene	350	U
111-91-1	bis (2-Chloroethoxy) methane	350	U
59-50-7	4-Chloro-3-Methylphenol	350	U
91-57-6	2-Methylnaphthalene	350	U
77-47-4	Hexachlorocyclopentadiene	350	U
88-06-2	2,4,6-Trichlorophenol	350	U
95-95-4	2,4,5-Trichlorophenol	1700	U
91-58-7	2-Chloronaphthalene	350	U
88-74-4	2-Nitroaniline	1700	U
131-11-3	Dimethylphthalate	350	U
208-96-8	Acenaphthylene	350	U
606-20-2	2,6-Dinitrotoluene	350	U
99-09-2	3-Nitroaniline	1700	U
83-32-9	Acenaphthene	350	U

4-Methylphenol is being reported as the combination of 3 + 4 Methylphenol

FORM I SV-1

SW846 METHOD 8270A

000031

1C
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

FDA01

Lab Name: NYTEST ENV INC Contract: 9622354
 Lab Code: NYTEST Case No.: 28196 SAS No.: SDG No.: GAC4S
 Matrix: (soil/water) SOIL Lab Sample ID: 2819604
 Sample wt/vol: 30.0 (g/mL) G Lab File ID: Q2487.D
 Level: (low/med) LOW Date Received: 06/28/96
 % Moisture: not dec. 4 dec. Date Extracted: 07/03/96
 Extraction: (SepF/Cont/Sonc) SONC Date Analyzed: 07/10/96
 GPC Cleanup: (Y/N) N pH: 7.1 Dilution Factor: 1.0

CONCENTRATION UNITS:
(ug/L or ug/Kg) UG/KG

CAS NO.	COMPOUND	UG/KG	Q
51-28-5	2,4-Dinitrophenol	1700	U
100-02-7	4-Nitrophenol	1700	U
132-64-9	Dibenzofuran	350	U
121-14-2	2,4-Dinitrotoluene	350	U
84-66-2	Diethylphthalate	350	U
7005-72-3	4-Chlorophenyl-phenylether	350	U
86-73-7	Fluorene	350	U
100-01-6	4-Nitroaniline	1700	U
534-52-1	4,6-Dinitro-2-methylphenol	1700	U
86-30-6	N-Nitrosodiphenylamine (1)	350	U
101-55-3	4-Bromophenyl-phenylether	350	U
118-74-1	Hexachlorobenzene	350	U
87-86-5	Pentachlorophenol	1700	U
85-01-8	Phenanthrene	350	U
120-12-7	Anthracene	350	U
86-74-8	Carbazole	350	U
84-74-2	Di-n-butylphthalate	350	U
206-44-0	Fluoranthene	350	U
129-00-0	Pyrene	350	U
85-68-7	Butylbenzylphthalate	350	U
91-94-1	3,3'-Dichlorobenzidine	690	U
56-55-3	Benzo (a) anthracene	350	U
218-01-9	Chrysene	350	U
117-81-7	bis(2-Ethylhexyl)phthalate	49	J
117-84-0	Di-n-octylphthalate	350	U
205-99-2	Benzo (b) fluoranthene	350	U
207-08-9	Benzo (k) fluoranthene	350	U
50-32-8	Benzo (a) pyrene	350	U
193-39-5	Indeno (1,2,3-cd) pyrene	350	U
53-70-3	Dibenz (a,h) anthracene	350	U
191-24-2	Benzo (g,h,i) perylene	350	U
100-51-6	Benzyl Alcohol	350	U
65-85-0	Benzoic Acid	1700	U

(1) - Cannot be separated from Diphenylamine

FORM I SV-2

SW846 METHOD 8270A

000032

1F
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

FDA01

Lab Name: NYTEST ENV INC. Contract: 9622354
 Lab Code: NYTEST Case No.: 28196 SAS No.: SDG No.: GAC4S
 Matrix: (soil/water) SOIL Lab Sample ID: 2819604
 Sample wt/vol: 30.0 (g/mL) G Lab File ID: Q2487.D
 Level: (low/med) LOW Date Received: 06/28/96
 % Moisture: not dec. 4 dec. Date Extracted: 07/03/96
 Extraction: (SepF/Cont/Sonc) SONC Date Analyzed: 07/10/96
 GPC Cleanup: (Y/N) N pH: 7.1 Dilution Factor: 1.0

CONCENTRATION UNITS:
(ug/L or ug/Kg) UG/KG

Number TICs found: 8

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1.	ALDOL	2.526	46000	AJ
2.	UNKNOWN	2.677	3900	JB
3.	UNKNOWN	3.397	640	JB
4.	UNKNOWN AROMATIC	3.429	2000	J
5.	UNKNOWN	3.805	360	J
6.	UNKNOWN	4.052	1900	J
7.	UNKNOWN	4.353	160	J
8.	UNKNOWN AROMATIC	5.814	63	J
9.				
10.				
11.				
12.				
13.				
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1B
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

FDA02

Lab Name: NYTEST ENV INC Contract: 9622354
 Lab Code: NYTEST Case No.: 28196 SAS No.: SDG No.: GAC4S
 Matrix: (soil/water) SOIL Lab Sample ID: 2819607
 Sample wt/vol: 30.0 (g/mL) G Lab File ID: Q2474.D
 Level: (low/med) LOW Date Received: 06/28/96
 % Moisture: not dec. 4 dec. Date Extracted: 07/03/96
 Extraction: (SepF/Cont/Sonc) SONC Date Analyzed: 07/10/96
 GPC Cleanup: (Y/N) N pH: 7.2 Dilution Factor: 1.0

CAS NO. COMPOUND CONCENTRATION UNITS:
(ug/L or ug/Kg) UG/KG Q

108-95-2	Phenol	350	U
111-44-4	bis(2-Chloroethyl) Ether	350	U
95-57-8	2-Chlorophenol	350	U
541-73-1	1,3-Dichlorobenzene	350	U
106-46-7	1,4-Dichlorobenzene	350	U
95-50-1	1,2-Dichlorobenzene	350	U
95-48-7	2-Methylphenol	350	U
108-60-1	2,2'-oxybis(1-Chloropropane)	350	U
106-44-5	4-Methylphenol	350	U
621-64-7	N-Nitroso-di-n-propylamine	350	U
67-72-1	Hexachloroethane	350	U
98-95-3	Nitrobenzene	350	U
78-59-1	Isophorone	350	U
88-75-5	2-Nitrophenol	350	U
105-67-9	2,4-Dimethylphenol	350	U
120-83-2	2,4-Dichlorophenol	350	U
120-82-1	1,2,4-Trichlorobenzene	350	U
91-20-3	Naphthalene	350	U
106-47-8	4-Chloroaniline	350	U
87-68-3	Hexachlorobutadiene	350	U
111-91-1	bis(2-Chloroethoxy) methane	350	U
59-50-7	4-Chloro-3-Methylphenol	350	U
91-57-6	2-Methylnaphthalene	350	U
77-47-4	Hexachlorocyclopentadiene	350	U
88-06-2	2,4,6-Trichlorophenol	350	U
95-95-4	2,4,5-Trichlorophenol	1700	U
91-58-7	2-Chloronaphthalene	350	U
88-74-4	2-Nitroaniline	1700	U
131-11-3	Dimethylphthalate	350	U
208-96-8	Acenaphthylene	350	U
606-20-2	2,6-Dinitrotoluene	350	U
99-09-2	3-Nitroaniline	1700	U
83-32-9	Acenaphthene	350	U

4-Methylphenol is being reported as the combination of 3 + 4 Methylphenol

FORM I SV-1

SW846 METHOD 8270A

000034

1C
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

FDA02

Lab Name: NYTEST ENV INC Contract: 9622354
 Lab Code: NYTEST Case No.: 28196 SAS No.: SDG No.: GAC4S
 Matrix: (soil/water) SOIL Lab Sample ID: 2819607
 Sample wt/vol: 30.0 (g/mL) G Lab File ID: Q2474.D
 Level: (low/med) LOW Date Received: 06/28/96
 % Moisture: not dec. 4 dec. Date Extracted: 07/03/96
 Extraction: (SepF/Cont/Sonc) SONC Date Analyzed: 07/10/96
 GPC Cleanup: (Y/N) N pH: 7.2 Dilution Factor: 1.0

CONCENTRATION UNITS:

CAS NO. COMPOUND (ug/L or ug/Kg) UG/KG Q

51-28-5-----	2,4-Dinitrophenol	1700	U
100-02-7-----	4-Nitrophenol	1700	U
132-64-9-----	Dibenzofuran	350	U
121-14-2-----	2,4-Dinitrotoluene	350	U
84-66-2-----	Diethylphthalate	350	U
7005-72-3-----	4-Chlorophenyl-phenylether	350	U
86-73-7-----	Fluorene	350	U
100-01-6-----	4-Nitroaniline	1700	U
534-52-1-----	4,6-Dinitro-2-methylphenol	1700	U
86-30-6-----	N-Nitrosodiphenylamine (1)	350	U
101-55-3-----	4-Bromophenyl-phenylether	350	U
118-74-1-----	Hexachlorobenzene	350	U
87-86-5-----	Pentachlorophenol	1700	U
85-01-8-----	Phenanthrene	350	U
120-12-7-----	Anthracene	350	U
86-74-8-----	Carbazole	350	U
84-74-2-----	Di-n-butylphthalate	350	U
206-44-0-----	Fluoranthene	350	U
129-00-0-----	Pyrene	350	U
85-68-7-----	Butylbenzylphthalate	350	U
91-94-1-----	3,3'-Dichlorobenzidine	690	U
56-55-3-----	Benzo (a) anthracene	350	U
218-01-9-----	Chrysene	350	U
117-81-7-----	bis (2-Ethylhexyl) phtalate	85	J
117-84-0-----	Di-n-octylphthalate	350	U
205-99-2-----	Benzo (b) fluoranthene	350	U
207-08-9-----	Benzo (k) fluoranthene	350	U
50-32-8-----	Benzo (a) pyrene	350	U
193-39-5-----	Indeno (1,2,3-cd) pyrene	350	U
53-70-3-----	Dibenz (a,h) anthracene	350	U
191-24-2-----	Benzo (g,h,i) perylene	350	U
100-51-6-----	Benzyl Alcohol	350	U
65-85-0-----	Benzoic Acid	1700	U

(1) - Cannot be separated from Diphenylamine

FORM I SV-2

SW846 METHOD 8270A

000035

1F
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

FDA02

Lab Name: NYTEST ENV INC. Contract: 9622354
 Lab Code: NYTEST Case No.: 28196 SAS No.: SDG No.: GAC4S
 Matrix: (soil/water) SOIL Lab Sample ID: 2819607
 Sample wt/vol: 30.0 (g/mL) G Lab File ID: Q2474.D
 Level: (low/med) LOW Date Received: 06/28/96
 % Moisture: not dec. 4 dec. Date Extracted: 07/03/96
 Extraction: (SepF/Cont/Sonc) SONC Date Analyzed: 07/10/96
 GPC Cleanup: (Y/N) N pH: 7.2 Dilution Factor: 1.0

CONCENTRATION UNITS:
(ug/L or ug/Kg) UG/KG

Number TICs found: 14

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1.	ALDOL	2.535	71000	AJ
2.	UNKNOWN	2.836	3100	JB
3.	UNKNOWN AROMATIC	3.007	110	J
4.	UNKNOWN	3.061	820	JB
5.	UNKNOWN	3.104	260	J
6.	UNKNOWN	3.158	90	J
7.	UNKNOWN	3.212	85	J
8.	UNKNOWN	3.684	180	J
9.	UNKNOWN	3.974	40	J
10.	UNKNOWN	4.275	51	JB
11.	UNKNOWN	4.479	46	J
12.	UNKNOWN	14.213	310	J
13.	UNKNOWN AROMATIC	15.599	44	J
14.	UNKNOWN AROMATIC	16.179	80	J
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1B
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

FDA04

Lab Name: NYTEST ENV INC Contract: 9622354
 Lab Code: NYTEST Case No.: 28196 SAS No.: SDG No.: GAC4S
 Matrix: (soil/water) SOIL Lab Sample ID: 2819608
 Sample wt/vol: 30.0 (g/mL) G Lab File ID: Q2475.D
 Level: (low/med) LOW Date Received: 06/28/96
 % Moisture: not dec. 2 dec. Date Extracted: 07/03/96
 Extraction: (SepF/Cont/Sonc) SONC Date Analyzed: 07/10/96
 GPC Cleanup: (Y/N) N pH: 7.7 Dilution Factor: 1.0

CONCENTRATION UNITS:
(ug/L or ug/Kg) UG/KG

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
108-95-2	Phenol	340	U
111-44-4	bis(2-Chloroethyl) Ether	340	U
95-57-8	2-Chlorophenol	340	U
541-73-1	1,3-Dichlorobenzene	340	U
106-46-7	1,4-Dichlorobenzene	340	U
95-50-1	1,2-Dichlorobenzene	340	U
95-48-7	2-Methylphenol	340	U
108-60-1	2,2'-oxybis(1-Chloropropane)	340	U
106-44-5	4-Methylphenol	340	U
621-64-7	N-Nitroso-di-n-propylamine	340	U
67-72-1	Hexachloroethane	340	U
98-95-3	Nitrobenzene	340	U
78-59-1	Isophorone	340	U
88-75-5	2-Nitrophenol	340	U
105-67-9	2,4-Dimethylphenol	340	U
120-83-2	2,4-Dichlorophenol	340	U
120-82-1	1,2,4-Trichlorobenzene	340	U
91-20-3	Naphthalene	340	U
106-47-8	4-Chloroaniline	340	U
87-68-3	Hexachlorobutadiene	340	U
111-91-1	bis(2-Chloroethoxy) methane	340	U
59-50-7	4-Chloro-3-Methylphenol	340	U
91-57-6	2-Methylnaphthalene	340	U
77-47-4	Hexachlorocyclopentadiene	340	U
88-06-2	2,4,6-Trichlorophenol	340	U
95-95-4	2,4,5-Trichlorophenol	1700	U
91-58-7	2-Chloronaphthalene	340	U
88-74-4	2-Nitroaniline	1700	U
131-11-3	Dimethylphthalate	340	U
208-96-8	Acenaphthylene	340	U
606-20-2	2,6-Dinitrotoluene	340	U
99-09-2	3-Nitroaniline	1700	U
83-32-9	Acenaphthene	340	U

4-Methylphenol is being reported as the combination of 3 + 4 Methylphenol

FORM I SV-1

SW846 METHOD 8270A

000037

1C
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

FDA04

Lab Name: NYTEST ENV INC Contract: 9622354
 Lab Code: NYTEST Case No.: 28196 SAS No.: SDG No.: GAC4S
 Matrix: (soil/water) SOIL Lab Sample ID: 2819608
 Sample wt/vol: 30.0 (g/mL) G Lab File ID: Q2475.D
 Level: (low/med) LOW Date Received: 06/28/96
 % Moisture: not dec. 2 dec. Date Extracted: 07/03/96
 Extraction: (SepF/Cont/Sonc) SONC Date Analyzed: 07/10/96
 GPC Cleanup: (Y/N) N pH: 7.7 Dilution Factor: 1.0

CONCENTRATION UNITS:

CAS NO. COMPOUND (ug/L or ug/Kg) UG/KG Q

51-28-5	2,4-Dinitrophenol	1700	U
100-02-7	4-Nitrophenol	1700	U
132-64-9	Dibenzofuran	340	U
121-14-2	2,4-Dinitrotoluene	340	U
84-66-2	Diethylphthalate	340	U
7005-72-3	4-Chlorophenyl-phenylether	340	U
86-73-7	Fluorene	340	U
100-01-6	4-Nitroaniline	1700	U
534-52-1	4,6-Dinitro-2-methylphenol	1700	U
86-30-6	N-Nitrosodiphenylamine (1)	340	U
101-55-3	4-Bromophenyl-phenylether	340	U
118-74-1	Hexachlorobenzene	340	U
87-86-5	Pentachlorophenol	1700	U
85-01-8	Phenanthrene	340	U
120-12-7	Anthracene	340	U
86-74-8	Carbazole	340	U
84-74-2	Di-n-butylphthalate	340	U
206-44-0	Fluoranthene	340	U
129-00-0	Pyrene	340	U
85-68-7	Butylbenzylphthalate	340	U
91-94-1	3,3'-Dichlorobenzidine	680	U
56-55-3	Benzo (a) anthracene	340	U
218-01-9	Chrysene	340	U
117-81-7	bis(2-Ethylhexyl) phthalate	340	U
117-84-0	Di-n-octylphthalate	340	U
205-99-2	Benzo (b) fluoranthene	340	U
207-08-9	Benzo (k) fluoranthene	340	U
50-32-8	Benzo (a) pyrene	340	U
193-39-5	Indeno (1,2,3-cd) pyrene	340	U
53-70-3	Dibenz (a,h) anthracene	340	U
191-24-2	Benzo (g,h,i) perylene	340	U
100-51-6	Benzyl Alcohol	340	U
65-85-0	Benzoic Acid	1700	U

(1) - Cannot be separated from Diphenylamine

FORM I SV-2

SW846 METHOD 8270A

000038

1F
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

FDA04

Lab Name: NYTEST ENV INC.

Contract: 9622354

Lab Code: NYTEST

Case No.: 28196

SAS No.:

SDG No.: GAC4S

Matrix: (soil/water) SOIL

Lab Sample ID: 2819608

Sample wt/vol: 30.0 (g/mL) G

Lab File ID: Q2475.D

Level: (low/med) LOW

Date Received: 06/28/96

% Moisture: not dec. 2 dec.

Date Extracted: 07/03/96

Extraction: (SepF/Cont/Sonc) SONC

Date Analyzed: 07/10/96

GPC Cleanup: (Y/N) N

pH: 7.7

Dilution Factor: 1.0

Number TICs found: 17

CONCENTRATION UNITS:
(ug/L or ug/Kg) UG/KG

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1.	UNKNOWN HYDROCARBON	1.915	64	JB
2.	UNKNOWN	2.065	71	JB
3.	UNKNOWN HYDROCARBON	2.151	140	J
4.	ALDOL	2.280	7900	AJB
5.	UNKNOWN	2.334	410	JB
6.	UNKNOWN HYDROCARBON	2.398	760	JB
7.	UNKNOWN	2.452	1200	JB
8.	UNKNOWN HYDROCARBON	2.602	130	J
9.	ALDOL	2.688	1300	AJ
10.	UNKNOWN	2.817	49	JB
11.	UNKNOWN	2.914	89	J
12.	UNKNOWN	3.043	82	JB
13.	UNKNOWN	3.365	60	JB
14.	UNKNOWN AROMATIC	3.687	38	J
15.	UNKNOWN AROMATIC	4.611	36	J
16.	UNKNOWN AROMATIC	11.552	63	J
17.	UNKNOWN	14.216	870	J
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FORM I SV-TIC

SW846 METHOD 8270A

000039

1B
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

FLDBLK

Lab Name: NYTEST ENV INC Contract: 9622354

Lab Code: NYTEST Case No.: 28196 SAS No.: SDG No.: GAC4S

Matrix: (soil/water) WATER Lab Sample ID: 2819609

Sample wt/vol: 1000 (g/mL) ML Lab File ID: Q2483.D

Level: (low/med) LOW Date Received: 06/28/96

% Moisture: not dec. 0 dec. Date Extracted: 07/03/96

Extraction: (SepF/Cont/Sonc) SEPF Date Analyzed: 07/10/96

GPC Cleanup: (Y/N) N pH: 7.0 Dilution Factor: 1.0

CONCENTRATION UNITS:
(ug/L or ug/Kg) UG/L

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
108-95-2	Phenol	10	U
111-44-4	bis(2-Chloroethyl) Ether	10	U
95-57-8	2-Chlorophenol	10	U
541-73-1	1,3-Dichlorobenzene	10	U
106-46-7	1,4-Dichlorobenzene	10	U
95-50-1	1,2-Dichlorobenzene	10	U
95-48-7	2-Methylphenol	10	U
108-60-1	2,2'-oxybis(1-Chloropropane)	10	U
106-44-5	4-Methylphenol	10	U
621-64-7	N-Nitroso-di-n-propylamine	10	U
67-72-1	Hexachloroethane	10	U
98-95-3	Nitrobenzene	10	U
78-59-1	Isophorone	10	U
88-75-5	2-Nitrophenol	10	U
105-67-9	2,4-Dimethylphenol	10	U
120-83-2	2,4-Dichlorophenol	10	U
120-82-1	1,2,4-Trichlorobenzene	10	U
91-20-3	Naphthalene	10	U
106-47-8	4-Chloroaniline	10	U
87-68-3	Hexachlorobutadiene	10	U
111-91-1	bis(2-Chloroethoxy)methane	10	U
59-50-7	4-Chloro-3-Methylphenol	10	U
91-57-6	2-Methylnaphthalene	10	U
77-47-4	Hexachlorocyclopentadiene	10	U
88-06-2	2,4,6-Trichlorophenol	10	U
95-95-4	2,4,5-Trichlorophenol	50	U
91-58-7	2-Chloronaphthalene	10	U
88-74-4	2-Nitroaniline	50	U
131-11-3	Dimethylphthalate	10	U
208-96-8	Acenaphthylene	10	U
606-20-2	2,6-Dinitrotoluene	10	U
99-09-2	3-Nitroaniline	50	U
83-32-9	Acenaphthene	10	U

4-Methylphenol is being reported as the combination of 3 + 4 Methylphenol

FORM I SV-1

SW846 METHOD 8270A

000040

1C
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

FLDBLK

Lab Name: NYTEST ENV INC	Contract: 9622354	
Lab Code: NYTEST	Case No.: 28196	SAS No.: SDG No.: GAC4S
Matrix: (soil/water) WATER		Lab Sample ID: 2819609
Sample wt/vol: 1000 (g/mL) ML		Lab File ID: Q2483.D
Level: (low/med) LOW		Date Received: 06/28/96
% Moisture: not dec. 0 dec.		Date Extracted: 07/03/96
Extraction: (SepF/Cont/Sonc) SEPF		Date Analyzed: 07/10/96
GPC Cleanup: (Y/N) N pH: 7.0		Dilution Factor: 1.0

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
51-28-5-----	2,4-Dinitrophenol _____	50	U
100-02-7-----	4-Nitrophenol _____	50	U
132-64-9-----	Dibenzofuran _____	10	U
121-14-2-----	2,4-Dinitrotoluene _____	10	U
84-66-2-----	Diethylphthalate _____	10	U
7005-72-3-----	4-Chlorophenyl-phenylether _____	10	U
86-73-7-----	Fluorene _____	10	U
100-01-6-----	4-Nitroaniline _____	50	U
534-52-1-----	4,6-Dinitro-2-methylphenol _____	50	U
86-30-6-----	N-Nitrosodiphenylamine (1) _____	10	U
101-55-3-----	4-Bromophenyl-phenylether _____	10	U
118-74-1-----	Hexachlorobenzene _____	10	U
87-86-5-----	Pentachlorophenol _____	50	U
85-01-8-----	Phenanthrene _____	10	U
120-12-7-----	Anthracene _____	10	U
86-74-8-----	Carbazole _____	10	U
84-74-2-----	Di-n-butylphthalate _____	10	U
206-44-0-----	Fluoranthene _____	10	U
129-00-0-----	Pyrene _____	10	U
85-68-7-----	Butylbenzylphthalate _____	10	U
91-94-1-----	3,3'-Dichlorobenzidine _____	20	U
56-55-3-----	Benzo (a) anthracene _____	10	U
218-01-9-----	Chrysene _____	10	U
117-81-7-----	bis(2-Ethylhexyl)phthalate _____	10	U
117-84-0-----	Di-n-octylphthalate _____	10	U
205-99-2-----	Benzo (b) fluoranthene _____	10	U
207-08-9-----	Benzo (k) fluoranthene _____	10	U
50-32-8-----	Benzo (a) pyrene _____	10	U
193-39-5-----	Indeno (1,2,3-cd) pyrene _____	10	U
53-70-3-----	Dibenz (a,h) anthracene _____	10	U
191-24-2-----	Benzo (g,h,i) perylene _____	10	U
100-51-6-----	Benzyl Alcohol _____	10	U
65-85-0-----	Benzoic Acid _____	50	U

(1) - Cannot be separated from Diphenylamine

FORM I SV-2

SW846 METHOD 8270A

000041

1F
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

FLDBLK

Lab Name: NYTEST ENV INC.

Contract: 9622354

Lab Code: NYTEST

Case No.: 28196

SAS No.:

SDG No.: GAC4S

Matrix: (soil/water) WATER

Lab Sample ID: 2819609

Sample wt/vol: 1000 (g/mL) ML

Lab File ID: Q2483.D

Level: (low/med) LOW

Date Received: 06/28/96

% Moisture: not dec. 0 dec.

Date Extracted: 07/03/96

Extraction: (SepF/Cont/Sonc) SEPF

Date Analyzed: 07/10/96

GPC Cleanup: (Y/N) N

pH: 7.0

Dilution Factor: 1.0

CONCENTRATION UNITS:
(ug/L or ug/Kg) UG/L

Number TICs found: 3

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1.	UNKNOWN HYDROCARBON	1.987	2	JB
2.	UNKNOWN	3.986	1	JB
3.	UNKNOWN	14.213	5	J
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1C
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

PRA01

Lab Name: NYTEST ENV INC

Contract: 9622354

Lab Code: NYTEST

Case No.: 28196

SAS No.:

SDG No.: GAC4S

Matrix: (soil/water) SOIL

Lab Sample ID: 2819601

Sample wt/vol: 30.0 (g/mL) G

Lab File ID: Q2471.D

Level: (low/med) LOW

Date Received: 06/28/96

% Moisture: not dec. 4 dec.

Date Extracted: 07/03/96

Extraction: (SepF/Cont/Sonc) SONC

Date Analyzed: 07/09/96

GPC Cleanup: (Y/N) N pH: 7.0

Dilution Factor: 2.0

CONCENTRATION UNITS:

CAS NO. COMPOUND (ug/L or ug/Kg) UG/KG Q

51-28-5-----	2,4-Dinitrophenol	3500	U
100-02-7-----	4-Nitrophenol	3500	U
132-64-9-----	Dibenzofuran	690	U
121-14-2-----	2,4-Dinitrotoluene	690	U
84-66-2-----	Diethylphthalate	690	U
7005-72-3-----	4-Chlorophenyl-phenylether	690	U
86-73-7-----	Fluorene	690	U
100-01-6-----	4-Nitroaniline	3500	U
534-52-1-----	4,6-Dinitro-2-methylphenol	3500	U
86-30-6-----	N-Nitrosodiphenylamine (1)	690	U
101-55-3-----	4-Bromophenyl-phenylether	690	U
118-74-1-----	Hexachlorobenzene	690	U
87-86-5-----	Pentachlorophenol	100	J
85-01-8-----	Phenanthrene	690	U
120-12-7-----	Anthracene	690	U
86-74-8-----	Carbazole	690	U
84-74-2-----	Di-n-butylphthalate	690	U
206-44-0-----	Fluoranthene	690	U
129-00-0-----	Pyrene	690	U
85-68-7-----	Butylbenzylphthalate	160	J
91-94-1-----	3,3'-Dichlorobenzidine	1400	U
56-55-3-----	Benzo(a)anthracene	690	U
218-01-9-----	Chrysene	690	U
117-81-7-----	bis(2-Ethylhexyl)phthalate	120	J
117-84-0-----	Di-n-octylphthalate	690	U
205-99-2-----	Benzo(b)fluoranthene	690	U
207-08-9-----	Benzo(k)fluoranthene	690	U
50-32-8-----	Benzo(a)pyrene	120	J
193-39-5-----	Indeno(1,2,3-cd)pyrene	690	U
53-70-3-----	Dibenz(a,h)anthracene	690	U
191-24-2-----	Benzo(g,h,i)perylene	180	J
100-51-6-----	Benzyl Alcohol	690	U
65-85-0-----	Benzoic Acid	3500	U

(1) - Cannot be separated from Diphenylamine

FORM I SV-2

SW846 METHOD 8270A

000044

1F
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

PRA01

Lab Name: NYTEST ENV INC.

Contract: 9622354

Lab Code: NYTEST

Case No.: 28196

SAS No.:

SDG No.: GAC4S

Matrix: (soil/water) SOIL

Lab Sample ID: 2819601

Sample wt/vol: 30.0 (g/mL) G

Lab File ID: Q2471.D

Level: (low/med) LOW

Date Received: 06/28/96

% Moisture: not dec. 4 dec.

Date Extracted: 07/03/96

Extraction: (SepF/Cont/Sonc) SONC

Date Analyzed: 07/09/96

GPC Cleanup: (Y/N) N

pH: 7.0

Dilution Factor: 2.0

Number TICs found: 20

CONCENTRATION UNITS:
(ug/L or ug/Kg) UG/KG

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1.	UNKNOWN	2.009	170	J
2.	UNKNOWN	2.127	1200	JB
3.	ALDOL	2.234	6500	AJB
4.	UNKNOWN HYDROCARBON	2.331	430	J
5.	UNKNOWN HYDROCARBON	2.395	750	JB
6.	UNKNOWN	2.449	1200	JB
7.	UNKNOWN	2.696	370	JB
8.	UNKNOWN	2.814	88	JB
9.	UNKNOWN	2.933	160	J
10.	UNKNOWN	3.029	360	JB
11.	UNKNOWN	3.706	110	J
12.	UNKNOWN	14.213	130	J
13.	UNKNOWN AROMATIC	18.199	73	J
14.	UNKNOWN AROMATIC	18.242	80	J
15.	UNKNOWN AROMATIC	18.951	98	J
16.	UNKNOWN	20.563	130	J
17.	UNKNOWN CHLORINATED BIPHENYL	20.745	71	J
18.	UNKNOWN AROMATIC	21.229	300	J
19.	UNKNOWN	21.788	88	J
20.	UNKNOWN AROMATIC	22.003	120	J
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FORM I SV-TIC

SW846 METHOD 8270A

000045

1B
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

PRA02

Lab Name: NYTEST ENV INC.

Contract: 9622354

Lab Code: NYTEST

Case No.: 28196

SAS No.:

SDG No.: GAC4S

Matrix: (soil/water) SOIL

Lab Sample ID: 2819602

Sample wt/vol: 30.0 (g/mL) G

Lab File ID: Q2472.D

Level: (low/med) LOW

Date Received: 06/28/96

% Moisture: not dec. 18 dec.

Date Extracted: 07/03/96

Extraction: (SepF/Cont/Sonc) SONC

Date Analyzed: 07/09/96

GPC Cleanup: (Y/N) N

pH: 6.6

Dilution Factor: 1.0

CAS NO. COMPOUND CONCENTRATION UNITS:
(ug/L or ug/Kg) UG/KG Q

108-95-2-----	Phenol	410	U
111-44-4-----	bis(2-Chloroethyl) Ether	410	U
95-57-8-----	2-Chlorophenol	410	U
541-73-1-----	1,3-Dichlorobenzene	410	U
106-46-7-----	1,4-Dichlorobenzene	410	U
95-50-1-----	1,2-Dichlorobenzene	410	U
95-48-7-----	2-Methylphenol	410	U
108-60-1-----	2,2'-oxybis(1-Chloropropane)	410	U
106-44-5-----	4-Methylphenol	410	U
621-64-7-----	N-Nitroso-di-n-propylamine	410	U
67-72-1-----	Hexachloroethane	410	U
98-95-3-----	Nitrobenzene	410	U
78-59-1-----	Isophorone	410	U
88-75-5-----	2-Nitrophenol	410	U
105-67-9-----	2,4-Dimethylphenol	410	U
120-83-2-----	2,4-Dichlorophenol	410	U
120-82-1-----	1,2,4-Trichlorobenzene	410	U
91-20-3-----	Naphthalene	410	U
106-47-8-----	4-Chloroaniline	410	U
87-68-3-----	Hexachlorobutadiene	410	U
111-91-1-----	bis(2-Chloroethoxy) methane	410	U
59-50-7-----	4-Chloro-3-Methylphenol	410	U
91-57-6-----	2-Methylnaphthalene	410	U
77-47-4-----	Hexachlorocyclopentadiene	410	U
88-06-2-----	2,4,6-Trichlorophenol	410	U
95-95-4-----	2,4,5-Trichlorophenol	2000	U
91-58-7-----	2-Chloronaphthalene	410	U
88-74-4-----	2-Nitroaniline	2000	U
131-11-3-----	Dimethylphthalate	410	U
208-96-8-----	Acenaphthylene	410	U
606-20-2-----	2,6-Dinitrotoluene	410	U
99-09-2-----	3-Nitroaniline	2000	U
83-32-9-----	Acenaphthene	410	U

4-Methylphenol is being reported as the combination of 3 + 4 Methylphenol

FORM I SV-1

SW846 METHOD 8270A

000046

1C
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

PRA02

Lab Name: NYTEST ENV INC.

Contract: 9622354

Lab Code: NYTEST

Case No.: 28196

SAS No.:

SDG No.: GAC4S

Matrix: (soil/water) SOIL

Lab Sample ID: 2819602

Sample wt/vol: 30.0 (g/mL) G

Lab File ID: Q2472.D

Level: (low/med) LOW

Date Received: 06/28/96

% Moisture: not dec. 18 dec.

Date Extracted: 07/03/96

Extraction: (SepF/Cont/Sonc) SONC

Date Analyzed: 07/09/96

GPC Cleanup: (Y/N) N

pH: 6.6

Dilution Factor: 1.0

CAS NO. COMPOUND CONCENTRATION UNITS:
(ug/L or ug/Kg) UG/KG Q

51-28-5-----	2,4-Dinitrophenol	2000	U
100-02-7-----	4-Nitrophenol	2000	U
132-64-9-----	Dibenzofuran	410	U
121-14-2-----	2,4-Dinitrotoluene	410	U
84-66-2-----	Diethylphthalate	410	U
7005-72-3-----	4-Chlorophenyl-phenylether	410	U
86-73-7-----	Fluorene	410	U
100-01-6-----	4-Nitroaniline	2000	U
534-52-1-----	4,6-Dinitro-2-methylphenol	2000	U
86-30-6-----	N-Nitrosodiphenylamine (1)	410	U
101-55-3-----	4-Bromophenyl-phenylether	410	U
118-74-1-----	Hexachlorobenzene	410	U
87-86-5-----	Pentachlorophenol	2000	U
85-01-8-----	Phenanthrene	410	U
120-12-7-----	Anthracene	410	U
86-74-8-----	Carbazole	410	U
84-74-2-----	Di-n-butylphthalate	410	U
206-44-0-----	Fluoranthene	410	U
129-00-0-----	Pyrene	410	U
85-68-7-----	Butylbenzylphthalate	110	J
91-94-1-----	3,3'-Dichlorobenzidine	810	U
56-55-3-----	Benzo(a)anthracene	410	U
218-01-9-----	Chrysene	410	U
117-81-7-----	bis(2-Ethylhexyl)phthalate	84	J
117-84-0-----	Di-n-octylphthalate	410	U
205-99-2-----	Benzo(b)fluoranthene	410	U
207-08-9-----	Benzo(k)fluoranthene	410	U
50-32-8-----	Benzo(a)pyrene	50	J
193-39-5-----	Indeno(1,2,3-cd)pyrene	410	U
53-70-3-----	Dibenz(a,h)anthracene	410	U
191-24-2-----	Benzo(g,h,i)perylene	67	J
100-51-6-----	Benzyl Alcohol	410	U
65-85-0-----	Benzoic Acid	2000	U

(1) - Cannot be separated from Diphenylamine

FORM I SV-2

SW846 METHOD 8270A

000047

1F
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

PRA02

Lab Name: NYTEST ENV INC.

Contract: 9622354

Lab Code: NYTEST

Case No.: 28196

SAS No.:

SDG No.: GAC4S

Matrix: (soil/water) SOIL

Lab Sample ID: 2819602

Sample wt/vol: 30.0 (g/mL) G

Lab File ID: Q2472.D

Level: (low/med) LOW

Date Received: 06/28/96

% Moisture: not dec. 18 dec.

Date Extracted: 07/03/96

Extraction: (SepF/Cont/Sonc) SONC

Date Analyzed: 07/09/96

GPC Cleanup: (Y/N) N

pH: 6.6

Dilution Factor: 1.0

Number TICs found: 21

CONCENTRATION UNITS:
(ug/L or ug/Kg) UG/KG

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1.	UNKNOWN	2.147	320	JB
2.	ALDOL	2.255	5200	AJB
3.	UNKNOWN	2.340	320	JB
4.	UNKNOWN HYDROCARBON	2.394	650	JB
5.	UNKNOWN HYDROCARBON	2.448	950	J
6.	UNKNOWN HYDROCARBON	2.598	130	J
7.	UNKNOWN	2.695	330	JB
8.	UNKNOWN	5.542	190	J
9.	UNKNOWN AROMATIC	7.368	610	J
10.	UNKNOWN	9.925	210	J
11.	UNKNOWN	10.978	240	J
12.	UNKNOWN	11.258	190	J
13.	UNKNOWN	11.354	270	J
14.	UNKNOWN	11.505	370	J
15.	SULFUR	11.773	1200	J
16.	UNKNOWN AROMATIC	11.838	190	J
17.	UNKNOWN	11.881	390	J
18.	UNKNOWN	12.063	2200	J
19.	UNKNOWN AROMATIC	19.917	810	J
20.	UNKNOWN AROMATIC	20.132	130	J
21.	UNKNOWN	21.636	130	J
22.				
23.				
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1C
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

PRA03

Lab Name: NYTEST ENV INC Contract: 9622354
 Lab Code: NYTEST Case No.: 28196 SAS No.: SDG No.: GAC4S
 Matrix: (soil/water) SOIL Lab Sample ID: 2819603
 Sample wt/vol: 30.0 (g/mL) G Lab File ID: Q2473.D
 Level: (low/med) LOW Date Received: 06/28/96
 % Moisture: not dec. 3 dec. Date Extracted: 07/03/96
 Extraction: (SepF/Cont/Sonc) SONC Date Analyzed: 07/09/96
 GPC Cleanup: (Y/N) N pH: 7.5 Dilution Factor: 1.0

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
51-28-5	2,4-Dinitrophenol	1700	U
100-02-7	4-Nitrophenol	1700	U
132-64-9	Dibenzofuran	340	U
121-14-2	2,4-Dinitrotoluene	340	U
84-66-2	Diethylphthalate	340	U
7005-72-3	4-Chlorophenyl-phenylether	340	U
86-73-7	Fluorene	340	U
100-01-6	4-Nitroaniline	1700	U
534-52-1	4,6-Dinitro-2-methylphenol	1700	U
86-30-6	N-Nitrosodiphenylamine (1)	340	U
101-55-3	4-Bromophenyl-phenylether	340	U
118-74-1	Hexachlorobenzene	340	U
87-86-5	Pentachlorophenol	1700	U
85-01-8	Phenanthrene	340	U
120-12-7	Anthracene	340	U
86-74-8	Carbazole	340	U
84-74-2	Di-n-butylphthalate	340	U
206-44-0	Fluoranthene	340	U
129-00-0	Pyrene	340	U
85-68-7	Butylbenzylphthalate	340	U
91-94-1	3,3'-Dichlorobenzidine	690	U
56-55-3	Benzo(a)anthracene	340	U
218-01-9	Chrysene	340	U
117-81-7	bis(2-Ethylhexyl)phthalate	340	U
117-84-0	Di-n-octylphthalate	340	U
205-99-2	Benzo(b)fluoranthene	340	U
207-08-9	Benzo(k)fluoranthene	340	U
50-32-8	Benzo(a)pyrene	340	U
193-39-5	Indeno(1,2,3-cd)pyrene	340	U
53-70-3	Dibenz(a,h)anthracene	340	U
191-24-2	Benzo(g,h,i)perylene	340	U
100-51-6	Benzyl Alcohol	340	U
65-85-0	Benzoic Acid	1700	U

(1) - Cannot be separated from Diphenylamine

FORM I SV-2

SW846 METHOD 8270A

000050

1F
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

PRA03

Lab Name: NYTEST ENV INC.

Contract: 9622354

Lab Code: NYTEST

Case No.: 28196

SAS No.:

SDG No.: GAC4S

Matrix: (soil/water) SOIL

Lab Sample ID: 2819603

Sample wt/vol: 30.0 (g/mL) G

Lab File ID: Q2473.D

Level: (low/med) LOW

Date Received: 06/28/96

% Moisture: not dec. 3 dec.

Date Extracted: 07/03/96

Extraction: (SepF/Cont/Sonc) SONC

Date Analyzed: 07/09/96

GPC Cleanup: (Y/N) N

pH: 7.5

Dilution Factor: 1.0

CONCENTRATION UNITS:
(ug/L or ug/Kg) UG/KG

Number TICs found: 18

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1.	UNKNOWN	1.913	36	J
2.	UNKNOWN	2.053	72	JB
3.	UNKNOWN	2.149	230	JB
4.	ALDOL	2.257	4700	AJB
5.	UNKNOWN HYDROCARBON	2.332	320	J
6.	UNKNOWN	2.396	660	J
7.	UNKNOWN	2.450	1000	JB
8.	UNKNOWN HYDROCARBON	2.600	110	J
9.	UNKNOWN	2.697	310	JB
10.	UNKNOWN	2.815	49	JB
11.	UNKNOWN	2.912	440	J
12.	UNKNOWN	3.019	330	JB
13.	UNKNOWN	3.159	40	J
14.	UNKNOWN	3.374	69	JB
15.	UNKNOWN	3.653	40	J
16.	UNKNOWN	3.986	38	J
17.	UNKNOWN	7.897	40	JB
18.	UNKNOWN	14.225	1100	J
19.				
20.				
21.				
22.				
23.				
24.				
25.				
26.				
27.				
28.				
29.				
30.				

FORM I SV-TIC

SW846 METHOD 8270A

000051

TPHC 310-13
REPORT OF ANALYSIS

Login No.: 28196

We find as follows:

Results in ppm, mg/kg (Dry wt.): Matrix : SOIL

Parameter(s)	Sample Identification		
-----	-----	-----	-----
Sample ID	FDA01	FDA02	FDA04
Lab ID	2819604	2819607	2819608
Date Extracted	06/28/96	06/28/96	06/28/96
Date Analyzed	07/03/96	07/04/96	07/04/96
% Moisture			
Dilution factor	1	1	1
Gasoline	75 U	75 U	75 U
TPH (as Gasoline)	ND	ND	ND
Kerosene	75 U	75 U	75 U
TPH (as Kerosene)	ND	ND	ND
#2 Fuel Oil	75 U	75 U	75 U
TPH (as #2 Fuel Oil)	ND	ND	ND
#6 Fuel Oil	75 U	75 U	75 U
TPH (as #6 Fuel Oil)	ND	ND	ND
Lubricating Oil	75 U	75 U	75 U
TPH (as Lubricating Oil)	ND	ND	ND

ND = Not Detected

* TPH (as...) = Total Petroleum hydrocarbons quantitated as a particular hydrocarbon, however, peak pattern does not match that of the hydrocarbon reference standards.

ac:\123\gc\310-13\soil

REV 07/95

000052

1
INORGANIC ANALYSES DATA SHEET

EPA SAMPLE NO.

PRA01

Name: NYTEST_ENV_INC Contract: 9622464

Code: NYTEST Case No.: 28196 SAS No.: SDG No.: GAC4

Matrix (soil/water): SOIL Lab Sample ID: 819601

Level (low/med): LOW Date Received: 06/28/96

Solids: 95.6

Concentration Units (ug/L or mg/kg dry weight): MG/KG

CAS No.	Analyte	Concentration	C	Q	M
7440-36-0	Antimony	1.5	B		P
7440-38-2	Arsenic	5.0		*	P
7440-41-7	Beryllium	0.04	B		P
7440-43-9	Cadmium	0.08	U		P
7440-47-3	Chromium	7.7		E*	P
7440-50-8	Copper	6.2		N*	P
7439-92-1	Lead	8.6		*	P
7439-97-6	Mercury	0.10	U		CV
7440-02-0	Nickel	3.5	B	*	P
7782-49-2	Selenium	0.65	U	*	P
7440-22-4	Silver	0.28	B		P
7440-28-0	Thallium	1.7	B		P
7440-66-6	Zinc	11.6			P

Color Before: BROWN Clarity Before: Texture: MEDIUM

Color After: YELLOW Clarity After: CLEAR Artifacts:

Comments:

1
INORGANIC ANALYSES DATA SHEET

EPA SAMPLE NO.

PRA02

Name: NYTEST_ENV_INC _____ Contract: 9622464 _____

Lab Code: NYTEST Case No.: 28196_ SAS No.: _____ SDG No.: GAC4_

Matrix (soil/water): SOIL_ Lab Sample ID: 819602

Level (low/med): LOW_ Date Received: 06/28/96

Solids: _82.3

Concentration Units (ug/L or mg/kg dry weight): MG/KG

CAS No.	Analyte	Concentration	C	Q	M
7440-36-0	Antimony_	2.6	B		P
7440-38-2	Arsenic	6.3		*	P
7440-41-7	Beryllium	0.02	U		P
7440-43-9	Cadmium	0.09	U		P
7440-47-3	Chromium_	17.5		E*	P
7440-50-8	Copper	12.7		N*	P
7439-92-1	Lead	16.3		*	P
7439-97-6	Mercury	0.13			CV
7440-02-0	Nickel	11.7		*	P
7782-49-2	Selenium	3.3		*	P
7440-22-4	Silver	0.16	U		P
7440-28-0	Thallium	2.7			P
7440-66-6	Zinc	31.3			P

Color Before: BROWN_ Clarity Before: _____ Texture: MEDIUM

Color After: YELLOW_ Clarity After: CLEAR_ Artifacts: _____

Comments:

1
INORGANIC ANALYSES DATA SHEET

EPA SAMPLE NO.

PRA03

Name: NYTEST_ENV_INC Contract: 9622464

Lab Code: NYTEST Case No.: 28196 SAS No.: SDG No.: GAC4

Matrix (soil/water): SOIL Lab Sample ID: 819603

Level (low/med): LOW Date Received: 06/28/96

Solids: 97.3

Concentration Units (ug/L or mg/kg dry weight): MG/KG

CAS No.	Analyte	Concentration	C	Q	M
7440-36-0	Antimony	1.3	B		P
7440-38-2	Arsenic	0.96	B	*	P
7440-41-7	Beryllium	0.02	U		P
7440-43-9	Cadmium	0.08	U		P
7440-47-3	Chromium	7.4		E*	P
7440-50-8	Copper	1.4	B	N*	P
7439-92-1	Lead	1.5		*	P
7439-97-6	Mercury	0.10	U		CV
7440-02-0	Nickel	2.6	B	*	P
7782-49-2	Selenium	1.0		*	P
7440-22-4	Silver	0.14	U		P
7440-28-0	Thallium	0.42	U		P
7440-66-6	Zinc	8.2			P

Color Before: BROWN Clarity Before: Texture: MEDIUM
Color After: YELLOW Clarity After: CLEAR Artifacts:

Comments:

U.S. EPA - CLP

1
INORGANIC ANALYSES DATA SHEET

EPA SAMPLE NO.

FDA01

Name: NYTEST_ENV_INC _____ Contract: 9622464 _____

Lab Code: NYTEST Case No.: 28196_ SAS No.: _____ SDG No.: GAC4_

Matrix (soil/water): SOIL_ Lab Sample ID: 819604

Level (low/med): LOW_ Date Received: 06/28/96

Solids: _96.1

Concentration Units (ug/L or mg/kg dry weight): MG/KG

CAS No.	Analyte	Concentration	C	Q	M
7440-36-0	Antimony_	1.3	B		P
7440-38-2	Arsenic	1.3	B	*	P
7440-41-7	Beryllium	0.02	U		P
7440-43-9	Cadmium	0.08	U		P
7440-47-3	Chromium	9.0		E*	P
7440-50-8	Copper	5.0		N*	P
7439-92-1	Lead	2.8		*	P
7439-97-6	Mercury	0.10	U		CV
7440-02-0	Nickel	5.9	B	*	P
7782-49-2	Selenium	0.64	U	*	P
7440-22-4	Silver	0.15	B		P
7440-28-0	Thallium	1.1	B		P
7440-66-6	Zinc	12.7			P

Color Before: BROWN_ Clarity Before: _____ Texture: MEDIUM

Color After: YELLOW_ Clarity After: CLEAR_ Artifacts: _____

Comments:

1
INORGANIC ANALYSES DATA SHEET

EPA SAMPLE NO.

FDA02

Site Name: NYTEST_ENV_INC _____ Contract: 9622464 _____

Lab Code: NYTEST Case No.: 28196_ SAS No.: _____ SDG No.: GAC4_

Matrix (soil/water): SOIL_ Lab Sample ID: 819607

Level (low/med): LOW_ Date Received: 06/28/96

Solids: _____95.7

Concentration Units (ug/L or mg/kg dry weight): MG/KG

CAS No.	Analyte	Concentration	C	Q	M
7440-36-0	Antimony	0.74	U		P
7440-38-2	Arsenic	2.0		*	P
7440-41-7	Beryllium	0.02	U		P
7440-43-9	Cadmium	0.08	U		P
7440-47-3	Chromium	11.5		E*	P
7440-50-8	Copper	11.2		N*	P
7439-92-1	Lead	25.6		*	P
7439-97-6	Mercury	0.10	U		C _V
7440-02-0	Nickel	7.1	B	*	P
7782-49-2	Selenium	0.61	U	*	P
7440-22-4	Silver	0.13	U		P
7440-28-0	Thallium	1.1	B		P
7440-66-6	Zinc	20.2			P

Color Before: BROWN _____ Clarity Before: _____ Texture: MEDIUM
 Color After: YELLOW _____ Clarity After: CLEAR _____ Artifacts: _____

Comments: _____

U.S. EPA - CLP

1
INORGANIC ANALYSES DATA SHEET

EPA SAMPLE NO.

FDA04

Name: NYTEST_ENV_INC Contract: 9622464

Lab Code: NYTEST Case No.: 28196 SAS No.: SDG No.: GAC4

Matrix (soil/water): SOIL Lab Sample ID: 819608

Level (low/med): LOW Date Received: 06/28/96

Solids: 98.3

Concentration Units (ug/L or mg/kg dry weight): MG/KG

CAS No.	Analyte	Concentration	C	Q	M
7440-36-0	Antimony	1.4	B		P
7440-38-2	Arsenic	0.76	B	*	P
7440-41-7	Beryllium	0.04	B		P
7440-43-9	Cadmium	0.08	U		P
7440-47-3	Chromium	3.3		E*	P
7440-50-8	Copper	6.7		N*	P
7439-92-1	Lead	1.3		*	P
7439-97-6	Mercury	0.10	U		CV
7440-02-0	Nickel	1.9	B	*	P
7782-49-2	Selenium	0.61	U	*	P
7440-22-4	Silver	0.30	B		P
7440-28-0	Thallium	2.3			P
7440-66-6	Zinc	5.9			P

Color Before: BROWN Clarity Before: Texture: MEDIUM

Color After: COLORLESS Clarity After: CLEAR Artifacts:

Comments:

U.S. EPA - CLP

1
INORGANIC ANALYSES DATA SHEET

EPA SAMPLE NO.

FLDBLK

Lab Name: NYTEST_ENV_INC Contract: 9622464

Lab Code: NYTEST Case No.: 28196 SAS No.: SDG No.: GAC4

Matrix (soil/water): WATER Lab Sample ID: 819609

Level (low/med): LOW Date Received: 06/28/96

Solids: 0.0

Concentration Units (ug/L or mg/kg dry weight): UG/L

CAS No.	Analyte	Concentration	C	Q	M
7440-36-0	Antimony	3.9	U		P
7440-38-2	Arsenic	3.6	B		P
7440-41-7	Beryllium	2.4	B		P
7440-43-9	Cadmium	2.4	B		P
7440-47-3	Chromium	6.7	B		P
7440-50-8	Copper	6.6	B		P
7439-92-1	Lead	1.5	U		P
7439-97-6	Mercury	0.20	U		CV
7440-02-0	Nickel	5.7	B		P
7782-49-2	Selenium	3.2	U		P
7440-22-4	Silver	3.2	B		P
7440-28-0	Thallium	2.1	U		P
7440-66-6	Zinc	10.6	B		P

Color Before: COLORLESS Clarity Before: CLEAR Texture:

Color After: COLORLESS Clarity After: CLEAR Artifacts:

Comments:

NYTEST ENVIRONMENTAL, INC.

REPORT OF ANALYSIS

We find as follows :

Log In No : 28196

Results in mg/Kg(dry basis) :

<u>Sample Identification</u>		<u>Parameters</u>	
<u>LAB ID</u>	<u>CLIENT ID</u>	<u>Total Petroleum Hydrocarbons</u>	
Water Method Blank			mg/L
Water Method Detection Limit			mg/L
Soil Method Blank		10	
Soil Method Detection Limit		10	
2819604	FDA01	61.00	
2819605	FDA01MS	63.00	
2819607	FDA02	20.00	
2819608	FDA04	28.00	
2819609	FLDBLK	1	mg/L

U : Below method blank / method reporting limit

000060

8021 - STARS 1&2
NYTEST ENVIRONMENTAL INC.

ORGANICS ANALYSIS DATA SHEET

SAMPLE MATRIX: SOIL SAMPLE ID: USTH08
CONC. LEVEL: LOW LAB ID: 2812001
DATE RECEIVED: 06/25/96 DIL FACTOR: 1.00
DATE ANALYZED: 07/03/96 % MOISTURE: 3

CMPD #	CAS Number	VOLATILE COMPOUNDS	UG/KG (DRY BASIS)
1	71-43-2	Benzene	1.0 U
2	100-41-4	Ethylbenzene	1.0 U
3	108-88-3	Toluene	1.0 U
4	95-47-6	o-Xylene	1.0 U
5	108-38-3/106-47-3	m&p-Xylene	1.0 U
6	98-82-8	Isopropylbenzene	1.0 U
7	103-65-1	n-Propylbenzene	1.0 U
8	99-87-6	p-Isopropyltoluene	1.0 U
9	95-63-6	1,2,4-Trimethylbenzene	1.0 U
10	108-67-8	1,3,5-Trimethylbenzene	1.0 U
11	104-51-8	n-Butylbenzene	1.0 U
12	135-98-8	sec-Butylbenzene	1.0 U
13	98-06-6	tert-Butylbenzene	1.0 U
14	91-20-3	Naphthalene	1.0 U
15	1634-04-4	Methyl Tertiary Butyl Ether	5.2 U

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REV 06/95

000012

8021 - STARS 1&2
NYTEST ENVIRONMENTAL INC.

ORGANICS ANALYSIS DATA SHEET

SAMPLE MATRIX: SOIL SAMPLE ID: USTOSE
CONC. LEVEL: LOW LAB ID: 2812002
DATE RECEIVED: 06/25/96 DIL FACTOR: 1.00
DATE ANALYZED: 07/03/96 % MOISTURE: 6

CMPD #	CAS Number	VOLATILE COMPOUNDS	UG/KG (DRY BASIS)
1	71-43-2	Benzene	1.1 U
2	100-41-4	Ethylbenzene	1.1 U
3	108-88-3	Toluene	1.1 U
4	95-47-6	o-Xylene	1.1 U
5	108-38-3/106-47-3	m&p-Xylene	1.1 U
6	98-82-8	Isopropylbenzene	1.1 U
7	103-65-1	n-Propylbenzene	1.1 U
8	99-87-6	p-Isopropyltoluene	1.1 U
9	95-63-6	1,2,4-Trimethylbenzene	1.1 U
10	108-67-8	1,3,5-Trimethylbenzene	1.1 U
11	104-51-8	n-Butylbenzene	1.1 U
12	135-98-8	sec-Butylbenzene	1.1 U
13	98-06-6	tert-Butylbenzene	1.1 U
14	91-20-3	Naphthalene	1.1 U
15	1634-04-4	Methyl Tertiary Butyl Ether	5.3 U

8021 - STARS 1&2
NYTEST ENVIRONMENTAL INC.

ORGANICS ANALYSIS DATA SHEET

SAMPLE MATRIX: SOIL SAMPLE ID: USTONW
CONC. LEVEL: LOW LAB ID: 2812003
DATE RECEIVED: 06/25/96 DIL FACTOR: 1.00
DATE ANALYZED: 07/04/96 % MOISTURE: 5

CMPD #	CAS Number	VOLATILE COMPOUNDS	UG/KG (DRY BASIS)
1	71-43-2	Benzene	1.1 U
2	100-41-4	Ethylbenzene	1.1 U
3	108-88-3	Toluene	1.1 U
4	95-47-6	o-Xylene	1.1 U
5	108-38-3/106-47-3	m&p-Xylene	1.1 U
6	98-82-8	Isopropylbenzene	1.1 U
7	103-65-1	n-Propylbenzene	1.1 U
8	99-87-6	p-Isopropyltoluene	1.1 U
9	95-63-6	1,2,4-Trimethylbenzene	1.1 U
10	108-67-8	1,3,5-Trimethylbenzene	1.1 U
11	104-51-8	n-Butylbenzene	1.1 U
12	135-98-8	sec-Butylbenzene	1.1 U
13	98-06-6	tert-Butylbenzene	1.1 U
14	91-20-3	Naphthalene	1.1 U
15	1634-04-4	Methyl Tertiary Butyl Ether	5.3 U

8021 - STARS 1&2
NYTEST ENVIRONMENTAL INC.

ORGANICS ANALYSIS DATA SHEET

SAMPLE MATRIX: SOIL SAMPLE ID: USTLB
CONC. LEVEL: LOW LAB ID: 2812004
DATE RECEIVED: 06/25/96 DIL FACTOR: 1.00
DATE ANALYZED: 07/04/96 % MOISTURE: 7

CMPD #	CAS Number	VOLATILE COMPOUNDS	UG/KG (DRY BASIS)
1	71-43-2	Benzene	1.1 U
2	100-41-4	Ethylbenzene	1.1 U
3	108-88-3	Toluene	1.1 U
4	95-47-6	o-Xylene	1.1 U
5	108-38-3/106-47-3	m&p-Xylene	1.1 U
6	98-82-8	Isopropylbenzene	1.1 U
7	103-65-1	n-Propylbenzene	1.1 U
8	99-87-6	p-Isopropyltoluene	1.1 U
9	95-63-6	1,2,4-Trimethylbenzene	1.1 U
10	108-67-8	1,3,5-Trimethylbenzene	1.1 U
11	104-51-8	n-Butylbenzene	1.1 U
12	135-98-8	sec-Butylbenzene	1.1 U
13	98-06-6	tert-Butylbenzene	1.1 U
14	91-20-3	Naphthalene	1.1 U
15	1634-04-4	Methyl Tertiary Butyl Ether	5.4 U

8021 - STARS 1&2
NYTEST ENVIRONMENTAL INC.

ORGANICS ANALYSIS DATA SHEET

SAMPLE MATRIX: SOIL SAMPLE ID: USTLCS
CONC. LEVEL: LOW LAB ID: 2812005
DATE RECEIVED: 06/25/96 DIL FACTOR: 1.00
DATE ANALYZED: 07/04/96 % MOISTURE: 9

CMPD #	CAS Number	VOLATILE COMPOUNDS	UG/KG (DRY BASIS)
1	71-43-2	Benzene	1.1 U
2	100-41-4	Ethylbenzene	1.1 U
3	108-88-3	Toluene	1.1 U
4	95-47-6	o-Xylene	1.1 U
5	108-38-3/106-47-3	m&p-Xylene	1.1 U
6	98-82-8	Isopropylbenzene	1.1 U
7	103-65-1	n-Propylbenzene	1.1 U
8	99-87-6	p-Isopropyltoluene	1.1 U
9	95-63-6	1,2,4-Trimethylbenzene	1.1 U
10	108-67-8	1,3,5-Trimethylbenzene	1.1 U
11	104-51-8	n-Butylbenzene	1.1 U
12	135-98-8	sec-Butylbenzene	1.1 U
13	98-06-6	tert-Butylbenzene	1.1 U
14	91-20-3	Naphthalene	1.1 U
15	1634-04-4	Methyl Tertiary Butyl Ether	5.5 U

1B
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

USTHOB

Lab Name: NYTEST ENV INC

Contract: 9622464

Lab Code: NYTEST

Case No.: 28120

SAS No.:

SDG No.: GAC3S

Matrix: (soil/water) SOIL

Lab Sample ID: 2812001

Sample wt/vol: 30.0 (g/mL) G

Lab File ID: S3632.D

Level: (low/med) LOW

Date Received: 06/25/96

% Moisture: not dec. 3 dec.

Date Extracted: 06/27/96

Extraction: (SepF/Cont/Sonc) SONC

Date Analyzed: 07/06/96

GPC Cleanup: (Y/N) N

pH: 7.3

Dilution Factor: 1.0

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
---------	----------	---	---

83-32-9-----	Acenaphthene	340	U
86-73-7-----	Fluorene	340	U
85-01-8-----	Phenanthrene	340	U
120-12-7-----	Anthracene	340	U
206-44-0-----	Fluoranthene	340	U
129-00-0-----	Pyrene	340	U
56-55-3-----	Benzo (a) anthracene	340	U
218-01-9-----	Chrysene	340	U
205-99-2-----	Benzo (b) fluoranthene	340	U
207-08-9-----	Benzo (k) fluoranthene	340	U
50-32-8-----	Benzo (a) pyrene	340	U
193-39-5-----	Indeno (1, 2, 3-cd) pyrene	340	U
53-70-3-----	Dibenz (a, h) anthracene	340	U
191-24-2-----	Benzo (g, h, i) perylene	340	U

FORM I SV-1

SW846 METHOD 8270A

000017

1B
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

USTOSE

Lab Name: NYTEST ENV INC	Contract: 9622464	
Lab Code: NYTEST	Case No.: 28120	SAS No.: SDG No.: GAC3S
Matrix: (soil/water) SOIL		Lab Sample ID: 2812002
Sample wt/vol: 30.0 (g/mL) G		Lab File ID: S3633.D
Level: (low/med) LOW		Date Received: 06/25/96
% Moisture: not dec. 6 dec.		Date Extracted: 06/27/96
Extraction: (SepF/Cont/Sonc) SONC		Date Analyzed: 07/06/96
GPC Cleanup: (Y/N) N pH: 7.2		Dilution Factor: 1.0

CONCENTRATION UNITS:
(ug/L or ug/Kg) UG/KG

CAS NO.	COMPOUND	(ug/L or ug/Kg) UG/KG	Q
83-32-9-----	Acenaphthene	360	U
86-73-7-----	Fluorene	360	U
85-01-8-----	Phenanthrene	360	U
120-12-7-----	Anthracene	360	U
206-44-0-----	Fluoranthene	360	U
129-00-0-----	Pyrene	360	U
56-55-3-----	Benzo (a) anthracene	360	U
218-01-9-----	Chrysene	360	U
205-99-2-----	Benzo (b) fluoranthene	360	U
207-08-9-----	Benzo (k) fluoranthene	360	U
50-32-8-----	Benzo (a) pyrene	360	U
193-39-5-----	Indeno (1, 2, 3-cd) pyrene	360	U
53-70-3-----	Dibenz (a, h) anthracene	360	U
191-24-2-----	Benzo (g, h, i) perylene	360	U

FORM I SV-1

SW846 METHOD 8270A

000018

1B
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

USTONW

Lab Name: NYTEST ENV INC Contract: 9622464
 Lab Code: NYTEST Case No.: 28120 SAS No.: SDG No.: GAC3S
 Matrix: (soil/water) SOIL Lab Sample ID: 2812003
 Sample wt/vol: 30.0 (g/mL) G Lab File ID: S3634.D
 Level: (low/med) LOW Date Received: 06/25/96
 % Moisture: not dec. 5 dec. Date Extracted: 06/27/96
 Extraction: (SepF/Cont/Sonc) SONC Date Analyzed: 07/06/96
 GPC Cleanup: (Y/N) N pH: 6.6 Dilution Factor: 1.0

CONCENTRATION UNITS:
(ug/L or ug/Kg) UG/KG

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
83-32-9	Acenaphthene	350	U
86-73-7	Fluorene	350	U
85-01-8	Phenanthrene	39	J
120-12-7	Anthracene	350	U
206-44-0	Fluoranthene	350	U
129-00-0	Pyrene	350	U
56-55-3	Benzo (a) anthracene	350	U
218-01-9	Chrysene	350	U
205-99-2	Benzo (b) fluoranthene	350	U
207-08-9	Benzo (k) fluoranthene	350	U
50-32-8	Benzo (a) pyrene	350	U
193-39-5	Indeno (1, 2, 3-cd) pyrene	350	U
53-70-3	Dibenz (a, h) anthracene	350	U
191-24-2	Benzo (g, h, i) perylene	350	U

FORM I SV-1

SW846 METHOD 8270A

000019

1B
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

USTLB

Lab Name: NYTEST ENV INC Contract: 9622464

Lab Code: NYTEST Case No.: 28120 SAS No.: SDG No.: GAC3S

Matrix: (soil/water) SOIL Lab Sample ID: 2812004

Sample wt/vol: 30.0 (g/mL) G Lab File ID: S3635.D

Level: (low/med) LOW Date Received: 06/25/96

% Moisture: not dec. 7 dec. Date Extracted: 06/27/96

Extraction: (SepF/Cont/Sonc) SONC Date Analyzed: 07/06/96

GPC Cleanup: (Y/N) N pH: 7.5 Dilution Factor: 1.0

CONCENTRATION UNITS:
(ug/L or ug/Kg) UG/KG

CAS NO.	COMPOUND	Q
---------	----------	---

83-32-9-----	Acenaphthene	360	U
86-73-7-----	Fluorene	360	U
85-01-8-----	Phenanthrene	360	U
120-12-7-----	Anthracene	360	U
206-44-0-----	Fluoranthene	360	U
129-00-0-----	Pyrene	360	U
56-55-3-----	Benzo (a) anthracene	360	U
218-01-9-----	Chrysene	360	U
205-99-2-----	Benzo (b) fluoranthene	360	U
207-08-9-----	Benzo (k) fluoranthene	360	U
50-32-8-----	Benzo (a) pyrene	360	U
193-39-5-----	Indeno (1, 2, 3-cd) pyrene	360	U
53-70-3-----	Dibenz (a, h) anthracene	360	U
191-24-2-----	Benzo (g, h, i) perylene	360	U

FORM I SV-1

SW846 METHOD 8270A

000020.

1B
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

USTLCS

Lab Name: NYTEST ENV INC	Contract: 9622464	
Lab Code: NYTEST	Case No.: 28120	SAS No.: SDG No.: GAC3S
Matrix: (soil/water) SOIL		Lab Sample ID: 2812005
Sample wt/vol: 30.0 (g/mL) G		Lab File ID: S3636.D
Level: (low/med) LOW		Date Received: 06/25/96
% Moisture: not dec. 9 dec.		Date Extracted: 06/27/96
Extraction: (SepF/Cont/Sonc) SONC		Date Analyzed: 07/06/96
GPC Cleanup: (Y/N) N pH: 7.7		Dilution Factor: 1.0

CONCENTRATION UNITS:
(ug/L or ug/Kg) UG/KG Q

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
83-32-9-----	Acenaphthene	360	U
86-73-7-----	Fluorene	360	U
85-01-8-----	Phenanthrene	360	U
120-12-7-----	Anthracene	360	U
206-44-0-----	Fluoranthene	360	U
129-00-0-----	Pyrene	360	U
56-55-3-----	Benzo (a) anthracene	360	U
218-01-9-----	Chrysene	360	U
205-99-2-----	Benzo (b) fluoranthene	360	U
207-08-9-----	Benzo (k) fluoranthene	360	U
50-32-8-----	Benzo (a) pyrene	360	U
193-39-5-----	Indeno (1, 2, 3-cd) pyrene	360	U
53-70-3-----	Dibenz (a, h) anthracene	360	U
191-24-2-----	Benzo (g, h, i) perylene	360	U

FORM I SV-1

SW846 METHOD 8270A

000021

VOLATILE ORGANICS ANALYSIS DATA SHEET

MW-101

Lab Name: NYTEST ENV INC

Contract: 9622464

Lab Code: NYTEST

Case No.: 27421

SAS No.:

SDG No.: GAC2

Matrix: (soil/water) WATER

Lab Sample ID: 2742101

Sample wt/vol: 5.0 (g/mL) ML

Lab File ID: P0355.D

Level: (low/med) LOW

Date Received: 05/07/96

% Moisture: not dec. _____

Data Analyzed: 05/09/96

Column: (pack/cap) CAP

Dilution Factor: 1.0

CAS NO. COMPOUND CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L Q

74-87-3	-----Chloromethane	10	U
74-83-9	-----Bromomethane	10	U
75-01-4	-----Vinyl Chloride	10	U
75-00-3	-----Chloroethane	10	U
75-09-2	-----Methylene Chloride	3	J
67-64-1	-----Acetone	10	U
75-15-0	-----Carbon Disulfide	10	U
75-35-4	-----1,1-Dichloroethene	2	J
75-34-3	-----1,1-Dichloroethane	1	J
540-59-0	-----1,2-Dichloroethene (total)	2	J
67-66-3	-----Chloroform	10	U
107-06-2	-----1,2-Dichloroethane	10	U
78-93-3	-----2-Butanone	10	U
71-55-6	-----1,1,1-Trichloroethane	3	J
56-23-5	-----Carbon Tetrachloride	10	U
75-27-4	-----Bromodichloromethane	10	U
78-87-5	-----1,2-Dichloropropane	10	U
10061-01-5	-----cis-1,3-Dichloropropene	10	U
79-01-6	-----Trichloroethene	16	
124-48-1	-----Dibromochloromethane	10	U
79-00-5	-----1,1,2-Trichloroethane	10	U
71-43-2	-----Benzene	10	U
10061-02-6	-----trans-1,3-Dichloropropene	10	U
75-25-2	-----Bromoform	10	U
108-10-1	-----4-Methyl-2-Pentanone	10	U
591-78-6	-----2-Hexanone	10	U
127-18-4	-----Tetrachloroethene	6	J
79-34-5	-----1,1,2,2-Tetrachloroethane	10	U
108-88-3	-----Toluene	10	U
108-90-7	-----Chlorobenzene	10	U
100-41-4	-----Ethylbenzene	10	U
100-42-5	-----Styrene	10	U
1330-20-7	-----Xylene (total)	10	U
108-05-4	-----Vinyl Acetate	10	U

000018

1E
VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

MW-101

Lab Name: NYTEST ENV INC

Contract: 9622464

Lab Code: NYTEST

Case No.: 27421

SAS No.:

SDG No.: GAC2

Matrix: (soil/water) WATER

Lab Sample ID: 2742101

Sample wt/vol: 5.0 (g/mL) ML

Lab File ID: P0355.D

Level: (low/med) LOW

Date Received: 05/07/96

% Moisture: not dec. _____

Data Analyzed: 05/09/96

Column: (pack/cap) CAP

Dilution Factor: 1.0

Number TICs found: 0

CONCENTRATION UNITS:
(ug/L or ug/Kg) UG/L

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1.				
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FORM I VOA-TIC

SW846 METHOD 8240A

MW-102

Lab Name: NYTEST ENV INC Contract: 9622464
 Lab Code: NYTEST Case No.: 27421 SAS No.: SDG No.: GAC2
 Matrix: (soil/water) WATER Lab Sample ID: 2742102
 Sample wt/vol: 5.0 (g/mL) ML Lab File ID: P0356.D
 Level: (low/med) LOW Date Received: 05/07/96
 % Moisture: not dec. _____ Data Analyzed: 05/09/96
 Column: (pack/cap) CAP Dilution Factor: 1.0

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
74-87-3	Chloromethane	10	U
74-83-9	Bromomethane	10	U
75-01-4	Vinyl Chloride	10	U
75-00-3	Chloroethane	10	U
75-09-2	Methylene Chloride	3	J
67-64-1	Acetone	10	U
75-15-0	Carbon Disulfide	10	U
75-35-4	1,1-Dichloroethene	10	U
75-34-3	1,1-Dichloroethane	10	U
540-59-0	1,2-Dichloroethene (total)	10	U
67-66-3	Chloroform	10	U
107-06-2	1,2-Dichloroethane	10	U
78-93-3	2-Butanone	10	U
71-55-6	1,1,1-Trichloroethane	10	U
56-23-5	Carbon Tetrachloride	10	U
75-27-4	Bromodichloromethane	10	U
78-87-5	1,2-Dichloropropane	10	U
10061-01-5	cis-1,3-Dichloropropene	10	U
79-01-6	Trichloroethene	1	J
124-48-1	Dibromochloromethane	10	U
79-00-5	1,1,2-Trichloroethane	10	U
71-43-2	Benzene	10	U
10061-02-6	trans-1,3-Dichloropropene	10	U
75-25-2	Bromoform	10	U
108-10-1	4-Methyl-2-Pentanone	10	U
591-78-6	2-Hexanone	10	U
127-18-4	Tetrachloroethene	10	U
79-34-5	1,1,2,2-Tetrachloroethane	10	U
108-88-3	Toluene	10	U
108-90-7	Chlorobenzene	10	U
100-41-4	Ethylbenzene	10	U
100-42-5	Styrene	10	U
1330-20-7	Xylene (total)	10	U
108-05-4	Vinyl Acetate	10	U

1E
VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

MW-102

Lab Name: NYTEST ENV INC Contract: 9622464

Lab Code: NYTEST Case No.: 27421 SAS No.: SDG No.: GAC2

Matrix: (soil/water) WATER Lab Sample ID: 2742102

Sample wt/vol: 5.0 (g/mL) ML Lab File ID: P0356.D

Level: (low/med) LOW Date Received: 05/07/96

% Moisture: not dec. _____ Data Analyzed: 05/09/96

Column: (pack/cap) CAP Dilution Factor: 1.0

CONCENTRATION UNITS:
(ug/L or ug/Kg) UG/L

Number TICs found: 0

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1.				
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000027

FORM I VOA-TIC

SW846 METHOD 8240A

1A
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

S10MW1

Lab Name: NYTEST ENV INC

Contract: 9622464

Lab Code: NYTEST

Case No.: 27421

SAS No.:

SDG No.: GAC2

Matrix: (soil/water) WATER

Lab Sample ID: 2742105

Sample wt/vol: 5.0 (g/mL) ML

Lab File ID: P0359.D

Level: (low/med) LOW

Date Received: 05/07/96

% Moisture: not dec. _____

Data Analyzed: 05/09/96

Column: (pack/cap) CAP

Dilution Factor: 1.0

CONCENTRATION UNITS:
(ug/L or ug/Kg) UG/L

CAS NO.

COMPOUND

Q

74-87-3-----	Chloromethane	10	U
74-83-9-----	Bromomethane	10	U
75-01-4-----	Vinyl Chloride	10	U
75-00-3-----	Chloroethane	10	U
75-09-2-----	Methylene Chloride	4	J
67-64-1-----	Acetone	10	U
75-15-0-----	Carbon Disulfide	10	U
75-35-4-----	1,1-Dichloroethene	10	U
75-34-3-----	1,1-Dichloroethane	10	U
540-59-0-----	1,2-Dichloroethene (total)	10	U
67-66-3-----	Chloroform	10	U
107-06-2-----	1,2-Dichloroethane	10	U
78-93-3-----	2-Butanone	10	U
71-55-6-----	1,1,1-Trichloroethane	10	U
56-23-5-----	Carbon Tetrachloride	10	U
75-27-4-----	Bromodichloromethane	10	U
78-87-5-----	1,2-Dichloropropane	10	U
10061-01-5-----	cis-1,3-Dichloropropene	10	U
79-01-6-----	Trichloroethene	1	J
124-48-1-----	Dibromochloromethane	10	U
79-00-5-----	1,1,2-Trichloroethane	10	U
71-43-2-----	Benzene	10	U
10061-02-6-----	trans-1,3-Dichloropropene	10	U
75-25-2-----	Bromoform	10	U
108-10-1-----	4-Methyl-2-Pentanone	10	U
591-78-6-----	2-Hexanone	10	U
127-18-4-----	Tetrachloroethene	10	U
79-34-5-----	1,1,2,2-Tetrachloroethane	10	U
108-88-3-----	Toluene	10	U
108-90-7-----	Chlorobenzene	10	U
100-41-4-----	Ethylbenzene	10	U
100-42-5-----	Styrene	10	U
1330-20-7-----	Xylene (total)	10	U
108-05-4-----	Vinyl Acetate	10	U

000031

FORM I VOA

SW846 METHOD 8240A

1E
VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

S10MW1

Lab Name: NYTEST ENV INC

Contract: 9622464

Lab Code: NYTEST

Case No.: 27421

SAS No.:

SDG No.: GAC2

Matrix: (soil/water) WATER

Lab Sample ID: 2742105

Sample wt/vol: 5.0 (g/mL) ML

Lab File ID: P0359.D

Level: (low/med) LOW

Date Received: 05/07/96

% Moisture: not dec. _____

Data Analyzed: 05/09/96

Column: (pack/cap) CAP

Dilution Factor: 1.0

Number TICs found: 0

CONCENTRATION UNITS:
(ug/L or ug/Kg) UG/L

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1.				
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000032

FORM I VOA-TIC

SW846 METHOD 8240A

1A
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

TB506

Lab Name: NYTEST ENV INC

Contract: 9622464

Lab Code: NYTEST

Case No.: 27421

SAS No.:

SDG No.: GAC2

Matrix: (soil/water) WATER

Lab Sample ID: 2742107

Sample wt/vol: 5.0 (g/mL) ML

Lab File ID: P0353.D

Level: (low/med) LOW

Date Received: 05/07/96

% Moisture: not dec. _____

Data Analyzed: 05/09/96

Column: (pack/cap) CAP

Dilution Factor: 1.0

CAS NO. COMPOUND CONCENTRATION UNITS:
(ug/L or ug/Kg) UG/L Q

74-87-3	Chloromethane	10	U
74-83-9	Bromomethane	10	U
75-01-4	Vinyl Chloride	10	U
75-00-3	Chloroethane	10	U
75-09-2	Methylene Chloride	3	J
67-64-1	Acetone	10	U
75-15-0	Carbon Disulfide	10	U
75-35-4	1,1-Dichloroethene	10	U
75-34-3	1,1-Dichloroethane	10	U
540-59-0	1,2-Dichloroethene (total)	10	U
67-66-3	Chloroform	10	U
107-06-2	1,2-Dichloroethane	10	U
78-93-3	2-Butanone	10	U
71-55-6	1,1,1-Trichloroethane	10	U
56-23-5	Carbon Tetrachloride	10	U
75-27-4	Bromodichloromethane	10	U
78-87-5	1,2-Dichloropropane	10	U
10061-01-5	cis-1,3-Dichloropropene	10	U
79-01-6	Trichloroethene	10	U
124-48-1	Dibromochloromethane	10	U
79-00-5	1,1,2-Trichloroethane	10	U
71-43-2	Benzene	10	U
10061-02-6	trans-1,3-Dichloropropene	10	U
75-25-2	Bromoform	10	U
108-10-1	4-Methyl-2-Pentanone	10	U
591-78-6	2-Hexanone	10	U
127-18-4	Tetrachloroethene	10	U
79-34-5	1,1,2,2-Tetrachloroethane	10	U
108-88-3	Toluene	10	U
108-90-7	Chlorobenzene	10	U
100-41-4	Ethylbenzene	10	U
100-42-5	Styrene	10	U
1330-20-7	Xylene (total)	10	U
108-05-4	Vinyl Acetate	10	U

000036

FORM I VOA

SW846 METHOD 8240A

1E
VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

TB506

Lab Name: NYTEST ENV INC

Contract: 9622464

Lab Code: NYTEST

Case No.: 27421

SAS No.:

SDG No.: GAC2

Matrix: (soil/water) WATER

Lab Sample ID: 2742107

Sample wt/vol: 5.0

(g/mL) ML

Lab File ID: P0353.D

Level: (low/med) LOW

Date Received: 05/07/96

% Moisture: not dec. _____

Data Analyzed: 05/09/96

Column: (pack/cap) CAP

Dilution Factor: 1.0

Number TICs found: 0

CONCENTRATION UNITS:
(ug/L or ug/Kg) UG/L

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1.				
2.				
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000037

FORM I VOA-TIC

SW846 METHOD 8240A

1A
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

FB506

Lab Name: NYTEST ENV INC

Contract: 9622464

Lab Code: NYTEST

Case No.: 27421

SAS No.:

SDG No.: GAC2

Matrix: (soil/water) WATER

Lab Sample ID: 2742106

Sample wt/vol: 5.0 (g/mL) ML

Lab File ID: P0354.D

Level: (low/med) LOW

Date Received: 05/07/96

% Moisture: not dec. _____

Data Analyzed: 05/09/96

Column: (pack/cap) CAP

Dilution Factor: 1.0

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
74-87-3	-----Chloromethane	10	U
74-83-9	-----Bromomethane	10	U
75-01-4	-----Vinyl Chloride	10	U
75-00-3	-----Chloroethane	10	U
75-09-2	-----Methylene Chloride	3	J
67-64-1	-----Acetone	10	U
75-15-0	-----Carbon Disulfide	10	U
75-35-4	-----1,1-Dichloroethene	10	U
75-34-3	-----1,1-Dichloroethane	10	U
540-59-0	-----1,2-Dichloroethene (total)	10	U
67-66-3	-----Chloroform	10	U
107-06-2	-----1,2-Dichloroethane	10	U
78-93-3	-----2-Butanone	10	U
71-55-6	-----1,1,1-Trichloroethane	10	U
56-23-5	-----Carbon Tetrachloride	10	U
75-27-4	-----Bromodichloromethane	10	U
78-87-5	-----1,2-Dichloropropane	10	U
10061-01-5	-----cis-1,3-Dichloropropene	10	U
79-01-6	-----Trichloroethene	10	U
124-48-1	-----Dibromochloromethane	10	U
79-00-5	-----1,1,2-Trichloroethane	10	U
71-43-2	-----Benzene	10	U
10061-02-6	-----trans-1,3-Dichloropropene	10	U
75-25-2	-----Bromoform	10	U
108-10-1	-----4-Methyl-2-Pentanone	10	U
591-78-6	-----2-Hexanone	10	U
127-18-4	-----Tetrachloroethene	10	U
79-34-5	-----1,1,2,2-Tetrachloroethane	10	U
108-88-3	-----Toluene	10	U
108-90-7	-----Chlorobenzene	10	U
100-41-4	-----Ethylbenzene	10	U
100-42-5	-----Styrene	10	U
1330-20-7	-----Xylene (total)	10	U
108-05-4	-----Vinyl Acetate	10	U

000013

FORM I VOA

SW846 METHOD 8240A

1E
VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

FB506

Lab Name: NYTEST ENV INC

Contract: 9622464

Lab Code: NYTEST

Case No.: 27421

SAS No.:

SDG No.: GAC2

Matrix: (soil/water) WATER

Lab Sample ID: 2742106

Sample wt/vol: 5.0 (g/mL) ML

Lab File ID: P0354.D

Level: (low/med) LOW

Date Received: 05/07/96

% Moisture: not dec. _____

Data Analyzed: 05/09/96

Column: (pack/cap) CAP

Dilution Factor: 1.0

Number TICs found: 0

CONCENTRATION UNITS:
(ug/L or ug/Kg) UG/L

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1.				
2.				
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FORM I VOA-TIC

SW846 METHOD 8240A

8021 - STARS 1
NYTEST ENVIRONMENTAL INC.

VOLATILE ORGANICS ANALYSIS DATA SHEET

SAMPLE MATRIX: WATER SAMPLE ID: MW-101
CONC. LEVEL: LOW LAB ID: 2742101
DATE RECEIVED: 05/07/96 DIL FACTOR: 1.00
DATE ANALYZED: 05/11/96 % MOISTURE:NA

CMPD #	CAS Number	VOLATILE COMPOUNDS	UG/L
1	71-43-2	Benzene	1.0 U
2	100-41-4	Ethylbenzene	1.0 U
3	108-88-3	Toluene	1.0 U
4	95-47-6	o-Xylene	1.0 U
5	108-38-3/106-47-3	m&p-Xylene	1.0 U
6	98-82-8	Isopropylbenzene	1.0 U
7	103-65-1	n-Propylbenzene	1.0 U
8	99-87-6	p-Isopropyltoluene	1.0 U
9	95-63-6	1,2,4-Trimethylbenzene	1.0 U
10	108-67-8	1,3,5-Trimethylbenzene	1.0 U
11	104-51-8	n-Butylbenzene	1.0 U
12	135-98-8	sec-Butylbenzene	1.0 U
13	91-20-3	Naphthalene	1.0 U
14	1634-04-4	Methyl Tertiary Butyl Ether	5.0 U

8021 - STARS 1
NYTEST ENVIRONMENTAL INC.

VOLATILE ORGANICS ANALYSIS DATA SHEET

SAMPLE MATRIX: WATER SAMPLE ID: MW-102
CONC. LEVEL: LOW LAB ID: 2742102
DATE RECEIVED: 05/07/96 DIL FACTOR: 1.00
DATE ANALYZED: 05/12/96 % MOISTURE:NA
UG/L

CMPD #	CAS Number	VOLATILE COMPOUNDS	UG/L
1	71-43-2	Benzene	1.0 U
2	100-41-4	Ethylbenzene	1.0 U
3	108-88-3	Toluene	1.0 U
4	95-47-6	o-Xylene	1.0 U
5	108-38-3/106-47-3	m&p-Xylene	1.0 U
6	98-82-8	Isopropylbenzene	1.0 U
7	103-65-1	n-Propylbenzene	1.0 U
8	99-87-6	p-Isopropyltoluene	1.0 U
9	95-63-6	1,2,4-Trimethylbenzene	1.0 U
10	108-67-8	1,3,5-Trimethylbenzene	1.0 U
11	104-51-8	n-Butylbenzene	1.0 U
12	135-98-8	sec-Butylbenzene	1.0 U
13	91-20-3	Naphthalene	1.0 U
14	1634-04-4	Methyl Tertiary Butyl Ether	5.0 U

ac:\123\gc\8021\stars-1

REV 06/95

000012

8021 - STARS 1
NYTEST ENVIRONMENTAL INC.

VOLATILE ORGANICS ANALYSIS DATA SHEET

SAMPLE MATRIX: WATER SAMPLE ID: S10MW1
CONC. LEVEL: LOW LAB ID: 2742105
DATE RECEIVED: 05/07/96 DIL FACTOR: 1.00
DATE ANALYZED: 05/12/96 % MOISTURE:NA

CMPD #	CAS Number	VOLATILE COMPOUNDS	UG/L
1	71-43-2	Benzene	1.0 U
2	100-41-4	Ethylbenzene	1.0 U
3	108-88-3	Toluene	1.0 U
4	95-47-6	o-Xylene	1.0 U
5	108-38-3/106-47-3	m&p-Xylene	1.0 U
6	98-82-8	Isopropylbenzene	1.0 U
7	103-65-1	n-Propylbenzene	1.0 U
8	99-87-6	p-Isopropyltoluene	1.0 U
9	95-63-6	1,2,4-Trimethylbenzene	1.0 U
10	108-67-8	1,3,5-Trimethylbenzene	1.0 U
11	104-51-8	n-Butylbenzene	1.0 U
12	135-98-8	sec-Butylbenzene	1.0 U
13	91-20-3	Naphthalene	1.0 U
14	1634-04-4	Methyl Tertiary Butyl Ether	5.0 U

8021 - STARS 1
NYTEST ENVIRONMENTAL INC.

VOLATILE ORGANICS ANALYSIS DATA SHEET

SAMPLE MATRIX: WATER SAMPLE ID: FB506
CONC. LEVEL: LOW LAB ID: 2742106
DATE RECEIVED: 05/07/96 DIL FACTOR: 1.00
DATE ANALYZED: 05/11/96 % MOISTURE:NA
UG/L

CMPD #	CAS Number	VOLATILE COMPOUNDS	UG/L
1	71-43-2	Benzene	1.0 U
2	100-41-4	Ethylbenzene	1.0 U
3	108-88-3	Toluene	1.0 U
4	95-47-6	o-Xylene	1.0 U
5	108-38-3/106-47-3	m&p-Xylene	1.0 U
6	98-82-8	Isopropylbenzene	1.0 U
7	103-65-1	n-Propylbenzene	1.0 U
8	99-87-6	p-Isopropyltoluene	1.0 U
9	95-63-6	1,2,4-Trimethylbenzene	1.0 U
10	108-67-8	1,3,5-Trimethylbenzene	1.0 U
11	104-51-8	n-Butylbenzene	1.0 U
12	135-98-8	sec-Butylbenzene	1.0 U
13	91-20-3	Naphthalene	1.0 U
14	1634-04-4	Methyl Tertiary Butyl Ether	5.0 U

8021 - STARS 1
NYTEST ENVIRONMENTAL INC.

VOLATILE ORGANICS ANALYSIS DATA SHEET

SAMPLE MATRIX: WATER SAMPLE ID: TB506
CONC. LEVEL: LOW LAB ID: 2742107
DATE RECEIVED: 05/07/96 DIL FACTOR: 1.00
DATE ANALYZED: 05/11/96 % MOISTURE:NA

CMPD #	CAS Number	VOLATILE COMPOUNDS	UG/L
1	71-43-2	Benzene	1.0 U
2	100-41-4	Ethylbenzene	1.0 U
3	108-88-3	Toluene	1.0 U
4	95-47-6	o-Xylene	1.0 U
5	108-38-3/106-47-3	m&p-Xylene	1.0 U
6	98-82-8	Isopropylbenzene	1.0 U
7	103-65-1	n-Propylbenzene	1.0 U
8	99-87-6	p-Isopropyltoluene	1.0 U
9	95-63-6	1,2,4-Trimethylbenzene	1.0 U
10	108-67-8	1,3,5-Trimethylbenzene	1.0 U
11	104-51-8	n-Butylbenzene	1.0 U
12	135-98-8	sec-Butylbenzene	1.0 U
13	91-20-3	Naphthalene	1.0 U
14	1634-04-4	Methyl Tertiary Butyl Ether	5.0 U

1B
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

NYSDEC SAMPLE NO.

FB506

Lab Name: NYTEST ENV INC

Contract: 9622464

Lab Code: NYTEST

Case No.: 27421

SAS No.:

SDG No.: GAC2S

Matrix: (soil/water) WATER

Lab Sample ID: 2742106

Sample wt/vol: 1000 (g/mL) ML

Lab File ID: Q1045.D

Level: (low/med) LOW

Date Received: 05/07/96

% Moisture: _____ decanted: (Y/N) _____

Date Extracted: 05/08/96

Concentrated Extract Volume: 1000 (UL)

Date Analyzed: 05/17/96

Injection Volume: 2.0 (uL)

Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH: 7.0

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
108-95-2-----	Phenol	10	U
111-44-4-----	bis (2-Chloroethyl) Ether	10	U
95-57-8-----	2-Chlorophenol	10	U
541-73-1-----	1,3-Dichlorobenzene	10	U
106-46-7-----	1,4-Dichlorobenzene	10	U
95-50-1-----	1,2-Dichlorobenzene	10	U
95-48-7-----	2-Methylphenol	10	U
108-60-1-----	2,2'-oxybis (1-Chloropropane)	10	U
106-44-5-----	4-Methylphenol	10	U
621-64-7-----	N-Nitroso-di-n-propylamine	10	U
67-72-1-----	Hexachloroethane	10	U
98-95-3-----	Nitrobenzene	10	U
78-59-1-----	Isophorone	10	U
88-75-5-----	2-Nitrophenol	10	U
105-67-9-----	2,4-Dimethylphenol	10	U
120-83-2-----	2,4-Dichlorophenol	10	U
120-82-1-----	1,2,4-Trichlorobenzene	10	U
91-20-3-----	Naphthalene	10	U
106-47-8-----	4-Chloroaniline	10	U
87-68-3-----	Hexachlorobutadiene	10	U
111-91-1-----	bis (2-Chloroethoxy) methane	10	U
59-50-7-----	4-Chloro-3-Methylphenol	10	U
91-57-6-----	2-Methylnaphthalene	10	U
77-47-4-----	Hexachlorocyclopentadiene	10	U
88-06-2-----	2,4,6-Trichlorophenol	10	U
95-95-4-----	2,4,5-Trichlorophenol	50	U
91-58-7-----	2-Chloronaphthalene	10	U
88-74-4-----	2-Nitroaniline	50	U
131-11-3-----	Dimethylphthalate	10	U
208-96-8-----	Acenaphthylene	10	U
606-20-2-----	2,6-Dinitrotoluene	10	U
99-09-2-----	3-Nitroaniline	50	U
83-32-9-----	Acenaphthene	10	U

FORM I SV-1

NYSDEC ASP 12/91

000036

1C
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

NYSDEC SAMPLE NO.

FB506

Lab Name: NYTEST ENV INC

Contract: 9622464

Lab Code: NYTEST

Case No.: 27421

SAS No.:

SDG No.: GAC2S

Matrix: (soil/water) WATER

Lab Sample ID: 2742106

Sample wt/vol: 1000 (g/mL) ML

Lab File ID: Q1045.D

Level: (low/med) LOW

Date Received: 05/07/96

% Moisture: _____ decanted: (Y/N) _____

Date Extracted: 05/08/96

Concentrated Extract Volume: 1000 (UL)

Date Analyzed: 05/17/96

Injection Volume: 2.0 (uL)

Dilution Factor: 1.0

GPC Cleanup: (Y/N) N

pH: 7.0

CAS NO. COMPOUND CONCENTRATION UNITS:
(ug/L or ug/Kg) UG/L Q

51-28-5-----	2,4-Dinitrophenol	50	U
100-02-7-----	4-Nitrophenol	50	U
132-64-9-----	Dibenzofuran	10	U
121-14-2-----	2,4-Dinitrotoluene	10	U
84-66-2-----	Diethylphthalate	10	U
7005-72-3-----	4-Chlorophenyl-phenylether	10	U
86-73-7-----	Fluorene	10	U
100-01-6-----	4-Nitroaniline	50	U
534-52-1-----	4,6-Dinitro-2-methylphenol	50	U
86-30-6-----	N-Nitrosodiphenylamine (1)	10	U
101-55-3-----	4-Bromophenyl-phenylether	10	U
118-74-1-----	Hexachlorobenzene	10	U
87-86-5-----	Pentachlorophenol	50	U
85-01-8-----	Phenanthrene	10	U
120-12-7-----	Anthracene	10	U
86-74-8-----	Carbazole	10	U
84-74-2-----	Di-n-butylphthalate	10	U
206-44-0-----	Fluoranthene	10	U
129-00-0-----	Pyrene	10	U
85-68-7-----	Butylbenzylphthalate	10	U
91-94-1-----	3,3'-Dichlorobenzidine	20	U
56-55-3-----	Benzo(a)anthracene	10	U
218-01-9-----	Chrysene	10	U
117-81-7-----	bis(2-Ethylhexyl)phthalate	10	U
117-84-0-----	Di-n-octylphthalate	10	U
205-99-2-----	Benzo(b)fluoranthene	10	U
207-08-9-----	Benzo(k)fluoranthene	10	U
50-32-8-----	Benzo(a)pyrene	10	U
193-39-5-----	Indeno(1,2,3-cd)pyrene	10	U
53-70-3-----	Dibenz(a,h)anthracene	10	U
191-24-2-----	Benzo(g,h,i)perylene	10	U
100-51-6-----	Benzyl Alcohol	10	U
65-85-0-----	Benzoic Acid	50	U

(1) - Cannot be separated from Diphenylamine

000037

FORM I SV-2

NYSDEC ASP 12/91

1F
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

NYSDEC SAMPLE NO.

FB506

Lab Name: NYTEST ENV INC

Contract: 9622464

Lab Code: NYTEST

Case No.: 27421

SAS No.:

SDG No.: GAC2S

Matrix: (soil/water) WATER

Lab Sample ID: 2742106

Sample wt/vol: 1000 (g/mL) ML

Lab File ID: Q1045.D

Level: (low/med) LOW

Date Received: 05/07/96

% Moisture: _____ decanted: (Y/N) _____

Date Extracted: 05/08/96

Concentrated Extract Volume: 1000 (uL)

Date Analyzed: 05/17/96

Injection Volume: 2.0 (uL)

Dilution Factor: 1.0

GPC Cleanup: (Y/N) N

pH: 7.0

Number TICs found: 10

CONCENTRATION UNITS:
(ug/L or ug/Kg) UG/L

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1.	UNKNOWN	3.043	3	J
2.	UNKNOWN HYDROCARBON	3.890	2	JB
3.	UNKNOWN HYDROCARBON	4.374	2	J
4.	UNKNOWN	6.620	3	JB
5.	UNKNOWN HYDROCARBON	7.052	3	J
6.	UNKNOWN HYDROCARBON	7.122	3	J
7.	UNKNOWN HYDROCARBON	7.225	10	J
8.	UNKNOWN	7.277	4	J
9.	UNKNOWN	14.622	5	J
10.	UNKNOWN	16.074	3	J
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000038

FORM I SV-TIC

NYSDEC ASP 12/91

1B
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

NYSDEC SAMPLE NO.

MW101

Lab Name: NYTEST ENV INC

Contract: 9622464

Lab Code: NYTEST

Case No.: 27421

SAS No.:

SDG No.: GAC2S

Matrix: (soil/water) WATER

Lab Sample ID: 2742101

Sample wt/vol: 1000 (g/mL) ML

Lab File ID: Q1026.D

Level: (low/med) LOW

Date Received: 05/07/96

% Moisture: _____ decanted: (Y/N) _____

Date Extracted: 05/08/96

Concentrated Extract Volume: 1000 (UL)

Date Analyzed: 05/17/96

Injection Volume: 2.0 (uL)

Dilution Factor: 1.0

GPC Cleanup: (Y/N) N

pH: 7.0

CAS NO. COMPOUND CONCENTRATION UNITS:
(ug/L or ug/Kg) UG/L Q

108-95-2-----	Phenol	10	U
111-44-4-----	bis(2-Chloroethyl) Ether	10	U
95-57-8-----	2-Chlorophenol	10	U
541-73-1-----	1,3-Dichlorobenzene	10	U
106-46-7-----	1,4-Dichlorobenzene	10	U
95-50-1-----	1,2-Dichlorobenzene	10	U
95-48-7-----	2-Methylphenol	10	U
108-60-1-----	2,2'-oxybis(1-Chloropropane)	10	U
106-44-5-----	4-Methylphenol	10	U
621-64-7-----	N-Nitroso-di-n-propylamine	10	U
67-72-1-----	Hexachloroethane	10	U
98-95-3-----	Nitrobenzene	10	U
78-59-1-----	Isophorone	10	U
88-75-5-----	2-Nitrophenol	10	U
105-67-9-----	2,4-Dimethylphenol	10	U
120-83-2-----	2,4-Dichlorophenol	10	U
120-82-1-----	1,2,4-Trichlorobenzene	10	U
91-20-3-----	Naphthalene	10	U
106-47-8-----	4-Chloroaniline	10	U
87-68-3-----	Hexachlorobutadiene	10	U
111-91-1-----	bis(2-Chloroethoxy) methane	10	U
59-50-7-----	4-Chloro-3-Methylphenol	10	U
91-57-6-----	2-Methylnaphthalene	10	U
77-47-4-----	Hexachlorocyclopentadiene	10	U
88-06-2-----	2,4,6-Trichlorophenol	10	U
95-95-4-----	2,4,5-Trichlorophenol	50	U
91-58-7-----	2-Chloronaphthalene	10	U
88-74-4-----	2-Nitroaniline	50	U
131-11-3-----	Dimethylphthalate	10	U
208-96-8-----	Acenaphthylene	10	U
606-20-2-----	2,6-Dinitrotoluene	10	U
99-09-2-----	3-Nitroaniline	50	U
83-32-9-----	Acenaphthene	10	U

FORM I SV-1

NYSDEC ASP 12/91

000051

1C
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

NYSDEC SAMPLE NO.

MW101

Lab Name: NYTEST ENV INC Contract: 9622464
 Lab Code: NYTEST Case No.: 27421 SAS No.: SDG No.: GAC2S
 Matrix: (soil/water) WATER Lab Sample ID: 2742101
 Sample wt/vol: 1000 (g/mL) ML Lab File ID: Q1026.D
 Level: (low/med) LOW Date Received: 05/07/96
 % Moisture: _____ decanted: (Y/N) _____ Date Extracted: 05/08/96
 Concentrated Extract Volume: 1000 (UL) Date Analyzed: 05/17/96
 Injection Volume: 2.0 (uL) Dilution Factor: 1.0
 GPC Cleanup: (Y/N) N pH: 7.0

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
51-28-5	2,4-Dinitrophenol	50	U
100-02-7	4-Nitrophenol	50	U
132-64-9	Dibenzofuran	10	U
121-14-2	2,4-Dinitrotoluene	10	U
84-66-2	Diethylphthalate	10	U
7005-72-3	4-Chlorophenyl-phenylether	10	U
86-73-7	Fluorene	10	U
100-01-6	4-Nitroaniline	50	U
534-52-1	4,6-Dinitro-2-methylphenol	50	U
86-30-6	N-Nitrosodiphenylamine (1)	10	U
101-55-3	4-Bromophenyl-phenylether	10	U
118-74-1	Hexachlorobenzene	10	U
87-86-5	Pentachlorophenol	50	U
85-01-8	Phenanthrene	10	U
120-12-7	Anthracene	10	U
86-74-8	Carbazole	10	U
84-74-2	Di-n-butylphthalate	10	U
206-44-0	Fluoranthene	10	U
129-00-0	Pyrene	10	U
85-68-7	Butylbenzylphthalate	10	U
91-94-1	3,3'-Dichlorobenzidine	20	U
56-55-3	Benzo (a) anthracene	10	U
218-01-9	Chrysene	10	U
117-81-7	bis (2-Ethylhexyl) phthalate	10	U
117-84-0	Di-n-octylphthalate	10	U
205-99-2	Benzo (b) fluoranthene	10	U
207-08-9	Benzo (k) fluoranthene	10	U
50-32-8	Benzo (a) pyrene	10	U
193-39-5	Indeno (1,2,3-cd) pyrene	10	U
53-70-3	Dibenz (a,h) anthracene	10	U
191-24-2	Benzo (g,h,i) perylene	10	U
100-51-6	Benzyl Alcohol	10	U
65-85-0	Benzoic Acid	50	U

(1) - Cannot be separated from Diphenylamine

1F
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

NYSDEC SAMPLE NO.

MW101

Lab Name: NYTEST ENV INC

Contract: 9622464

Lab Code: NYTEST

Case No.: 27421

SAS No.:

SDG No.: GAC2S

Matrix: (soil/water) WATER

Lab Sample ID: 2742101

Sample wt/vol: 1000 (g/mL) ML

Lab File ID: Q1026.D

Level: (low/med) LOW

Date Received: 05/07/96

% Moisture: _____ decanted: (Y/N) _____

Date Extracted: 05/08/96

Concentrated Extract Volume: 1000 (uL)

Date Analyzed: 05/17/96

Injection Volume: 2.0 (uL)

Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH: 7.0

CONCENTRATION UNITS:
(ug/L or ug/Kg) UG/L

Number TICs found: 20

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1.	UNKNOWN HYDROCARBON	2.974	31	JB
2.	UNKNOWN HYDROCARBON	3.061	74	JB
3.	UNKNOWN HYDROCARBON	3.113	25	JB
4.	UNKNOWN HYDROCARBON	3.182	27	JB
5.	UNKNOWN	3.476	12	J
6.	UNKNOWN HYDROCARBON	3.700	36	JB
7.	UNKNOWN	3.735	30	JB
8.	UNKNOWN HYDROCARBON	3.890	100	JB
9.	UNKNOWN HYDROCARBON	3.959	31	JB
10.	UNKNOWN	4.374	15	J
11.	UNKNOWN	5.550	9	J
12.	UNKNOWN HYDROCARBON	6.120	9	J
13.	UNKNOWN	6.552	53	JB
14.	UNKNOWN HYDROCARBON	7.226	17	J
15.	UNKNOWN	7.295	10	J
16.	UNKNOWN	9.248	9	J
17.	UNKNOWN	15.746	18	J
18.	UNKNOWN	20.412	11	J
19.	UNKNOWN	22.625	110	J
20.	UNKNOWN	25.787	210	J
21.				
22.				
23.				
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FORM I SV-TIC

000053
NYSDEC ASP 12/91

1B
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

NYSDEC SAMPLE NO.

MW102

Lab Name: NYTEST ENV INC

Contract: 9622464

Lab Code: NYTEST

Case No.: 27421

SAS No.:

SDG No.: GAC2S

Matrix: (soil/water) WATER

Lab Sample ID: 2742102

Sample wt/vol: 1000 (g/mL) ML

Lab File ID: Q1027.D

Level: (low/med) LOW

Date Received: 05/07/96

% Moisture: _____ decanted: (Y/N) _____

Date Extracted: 05/08/96

Concentrated Extract Volume: 1000 (UL)

Date Analyzed: 05/17/96

Injection Volume: 2.0 (uL)

Dilution Factor: 1.0

GPC Cleanup: (Y/N) N

pH: 7.0

CAS NO. COMPOUND CONCENTRATION UNITS:
(ug/L or ug/Kg) UG/L Q

108-95-2	Phenol	10	U
111-44-4	bis(2-Chloroethyl) Ether	10	U
95-57-8	2-Chlorophenol	10	U
541-73-1	1,3-Dichlorobenzene	10	U
106-46-7	1,4-Dichlorobenzene	10	U
95-50-1	1,2-Dichlorobenzene	10	U
95-48-7	2-Methylphenol	10	U
108-60-1	2,2'-oxybis(1-Chloropropane)	10	U
106-44-5	4-Methylphenol	10	U
621-64-7	N-Nitroso-di-n-propylamine	10	U
67-72-1	Hexachloroethane	10	U
98-95-3	Nitrobenzene	10	U
78-59-1	Isophorone	10	U
88-75-5	2-Nitrophenol	10	U
105-67-9	2,4-Dimethylphenol	10	U
120-83-2	2,4-Dichlorophenol	10	U
120-82-1	1,2,4-Trichlorobenzene	10	U
91-20-3	Naphthalene	10	U
106-47-8	4-Chloroaniline	10	U
87-68-3	Hexachlorobutadiene	10	U
111-91-1	bis(2-Chloroethoxy) methane	10	U
59-50-7	4-Chloro-3-Methylphenol	10	U
91-57-6	2-Methylnaphthalene	10	U
77-47-4	Hexachlorocyclopentadiene	10	U
88-06-2	2,4,6-Trichlorophenol	10	U
95-95-4	2,4,5-Trichlorophenol	50	U
91-58-7	2-Chloronaphthalene	10	U
88-74-4	2-Nitroaniline	50	U
131-11-3	Dimethylphthalate	10	U
208-96-8	Acenaphthylene	10	U
606-20-2	2,6-Dinitrotoluene	10	U
99-09-2	3-Nitroaniline	50	U
83-32-9	Acenaphthene	10	U

FORM I SV-1

NYSDEC ASP 12/91

000076

1C
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

NYSDEC SAMPLE NO.

MW102

Lab Name: NYTEST ENV INC

Contract: 9622464

Lab Code: NYTEST

Case No.: 27421

SAS No.:

SDG No.: GAC2S

Matrix: (soil/water) WATER

Lab Sample ID: 2742102

Sample wt/vol: 1000 (g/mL) ML

Lab File ID: Q1027.D

Level: (low/med) LOW

Date Received: 05/07/96

% Moisture: _____ decanted: (Y/N) _____

Date Extracted: 05/08/96

Concentrated Extract Volume: 1000 (UL)

Date Analyzed: 05/17/96

Injection Volume: 2.0 (uL)

Dilution Factor: 1.0

GPC Cleanup: (Y/N) N

pH: 7.0

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
51-28-5	2,4-Dinitrophenol	50	U
100-02-7	4-Nitrophenol	50	U
132-64-9	Dibenzofuran	10	U
121-14-2	2,4-Dinitrotoluene	10	U
84-66-2	Diethylphthalate	10	U
7005-72-3	4-Chlorophenyl-phenylether	10	U
86-73-7	Fluorene	10	U
100-01-6	4-Nitroaniline	50	U
534-52-1	4,6-Dinitro-2-methylphenol	50	U
86-30-6	N-Nitrosodiphenylamine (1)	10	U
101-55-3	4-Bromophenyl-phenylether	10	U
118-74-1	Hexachlorobenzene	10	U
87-86-5	Pentachlorophenol	50	U
85-01-8	Phenanthrene	10	U
120-12-7	Anthracene	10	U
86-74-8	Carbazole	10	U
84-74-2	Di-n-butylphthalate	10	U
206-44-0	Fluoranthene	10	U
129-00-0	Pyrene	10	U
85-68-7	Butylbenzylphthalate	10	U
91-94-1	3,3'-Dichlorobenzidine	20	U
56-55-3	Benzo (a) anthracene	10	U
218-01-9	Chrysene	10	U
117-81-7	bis(2-Ethylhexyl) phthalate	10	U
117-84-0	Di-n-octylphthalate	10	U
205-99-2	Benzo (b) fluoranthene	10	U
207-08-9	Benzo (k) fluoranthene	10	U
50-32-8	Benzo (a) pyrene	10	U
193-39-5	Indeno (1,2,3-cd) pyrene	10	U
53-70-3	Dibenz (a, h) anthracene	10	U
191-24-2	Benzo (g, h, i) perylene	10	U
100-51-6	Benzyl Alcohol	10	U
65-85-0	Benzoic Acid	50	U

(1) - Cannot be separated from Diphenylamine

000077

FORM I SV-2

NYSDEC ASP 12/91

1F
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

NYSDEC SAMPLE NO.

MW102

Lab Name: NYTEST ENV INC Contract: 9622464

Lab Code: NYTEST Case No.: 27421 SAS No.: SDG No.: GAC2S

Matrix: (soil/water) WATER Lab Sample ID: 2742102

Sample wt/vol: 1000 (g/mL) ML Lab File ID: Q1027.D

Level: (low/med) LOW Date Received: 05/07/96

% Moisture: _____ decanted: (Y/N) _____ Date Extracted: 05/08/96

Concentrated Extract Volume: 1000 (uL) Date Analyzed: 05/17/96

Injection Volume: 2.0 (uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH: 7.0

Number TICs found: 20 CONCENTRATION UNITS:
(ug/L or ug/Kg) UG/L

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1.	UNKNOWN HYDROCARBON	2.748	10	JB
2.	UNKNOWN HYDROCARBON	2.973	40	JB
3.	UNKNOWN HYDROCARBON	3.059	95	JB
4.	UNKNOWN HYDROCARBON	3.128	32	JB
5.	UNKNOWN HYDROCARBON	3.180	35	JB
6.	UNKNOWN HYDROCARBON	3.595	10	JB
7.	UNKNOWN HYDROCARBON	3.699	40	JB
8.	UNKNOWN HYDROCARBON	3.820	10	JB
9.	UNKNOWN HYDROCARBON	3.906	130	JB
10.	UNKNOWN HYDROCARBON	3.958	43	JB
11.	UNKNOWN HYDROCARBON	4.373	26	J
12.	UNKNOWN HYDROCARBON	5.202	11	J
13.	UNKNOWN	5.444	6	JB
14.	UNKNOWN	5.669	6	J
15.	UNKNOWN	5.859	12	JB
16.	UNKNOWN HYDROCARBON	6.049	9	J
17.	UNKNOWN	6.136	7	J
18.	UNKNOWN	6.308	16	JB
19.	UNKNOWN	6.516	29	JB
20.	UNKNOWN	7.242	21	J
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000078

1B
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

NYSDEC SAMPLE NO.

S10MW1

Lab Name: NYTEST ENV INC Contract: 9622464
 Lab Code: NYTEST Case No.: 27421 SAS No.: SDG No.: GAC2S
 Matrix: (soil/water) WATER Lab Sample ID: 2742105
 Sample wt/vol: 1000 (g/mL) ML Lab File ID: Q1170.D
 Level: (low/med) LOW Date Received: 05/07/96
 % Moisture: _____ decanted: (Y/N) _____ Date Extracted: 05/08/96
 Concentrated Extract Volume: 1000 (UL) Date Analyzed: 05/21/96
 Injection Volume: 2.0 (uL) Dilution Factor: 1.0
 GPC Cleanup: (Y/N) N pH: 7.0

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
108-95-2	Phenol	10	U
111-44-4	bis(2-Chloroethyl) Ether	10	U
95-57-8	2-Chlorophenol	10	U
541-73-1	1,3-Dichlorobenzene	10	U
106-46-7	1,4-Dichlorobenzene	10	U
95-50-1	1,2-Dichlorobenzene	10	U
95-48-7	2-Methylphenol	10	U
108-60-1	2,2'-oxybis(1-Chloropropane)	10	U
106-44-5	4-Methylphenol	10	U
621-64-7	N-Nitroso-di-n-propylamine	10	U
67-72-1	Hexachloroethane	10	U
98-95-3	Nitrobenzene	10	U
78-59-1	Isophorone	10	U
88-75-5	2-Nitrophenol	10	U
105-67-9	2,4-Dimethylphenol	10	U
120-83-2	2,4-Dichlorophenol	10	U
120-82-1	1,2,4-Trichlorobenzene	10	U
91-20-3	Naphthalene	10	U
106-47-8	4-Chloroaniline	10	U
87-68-3	Hexachlorobutadiene	10	U
111-91-1	bis(2-Chloroethoxy) methane	10	U
59-50-7	4-Chloro-3-Methylphenol	10	U
91-57-6	2-Methylnaphthalene	10	U
77-47-4	Hexachlorocyclopentadiene	10	U
88-06-2	2,4,6-Trichlorophenol	10	U
95-95-4	2,4,5-Trichlorophenol	50	U
91-58-7	2-Chloronaphthalene	10	U
88-74-4	2-Nitroaniline	50	U
131-11-3	Dimethylphthalate	10	U
208-96-8	Acenaphthylene	10	U
606-20-2	2,6-Dinitrotoluene	10	U
99-09-2	3-Nitroaniline	50	U
83-32-9	Acenaphthene	10	U

FORM I SV-1

NYSDEC ASP 12/91

000101

1C
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

NYSDEC SAMPLE NO.

S10MW1

Lab Name: NYTEST ENV INC Contract: 9622464

Lab Code: NYTEST Case No.: 27421 SAS No.: SDG No.: GAC2S

Matrix: (soil/water) WATER Lab Sample ID: 2742105

Sample wt/vol: 1000 (g/mL) ML Lab File ID: Q1170.D

Level: (low/med) LOW Date Received: 05/07/96

% Moisture: _____ decanted: (Y/N) ____ Date Extracted: 05/08/96

Concentrated Extract Volume: 1000 (UL) Date Analyzed: 05/21/96

Injection Volume: 2.0 (uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH: 7.0

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
51-28-5	2,4-Dinitrophenol	50	U
100-02-7	4-Nitrophenol	50	U
132-64-9	Dibenzofuran	10	U
121-14-2	2,4-Dinitrotoluene	10	U
84-66-2	Diethylphthalate	10	U
7005-72-3	4-Chlorophenyl-phenylether	10	U
86-73-7	Fluorene	10	U
100-01-6	4-Nitroaniline	50	U
534-52-1	4,6-Dinitro-2-methylphenol	50	U
86-30-6	N-Nitrosodiphenylamine (1)	10	U
101-55-3	4-Bromophenyl-phenylether	10	U
118-74-1	Hexachlorobenzene	10	U
87-86-5	Pentachlorophenol	50	U
85-01-8	Phenanthrene	10	U
120-12-7	Anthracene	10	U
86-74-8	Carbazole	10	U
84-74-2	Di-n-butylphthalate	10	U
206-44-0	Fluoranthene	10	U
129-00-0	Pyrene	10	U
85-68-7	Butylbenzylphthalate	10	U
91-94-1	3,3'-Dichlorobenzidine	20	U
56-55-3	Benzo (a) anthracene	10	U
218-01-9	Chrysene	10	U
117-81-7	bis(2-Ethylhexyl)phthalate	10	U
117-84-0	Di-n-octylphthalate	10	U
205-99-2	Benzo (b) fluoranthene	10	U
207-08-9	Benzo (k) fluoranthene	10	U
50-32-8	Benzo (a) pyrene	10	U
193-39-5	Indeno (1,2,3-cd) pyrene	10	U
53-70-3	Dibenz (a,h) anthracene	10	U
191-24-2	Benzo (g,h,i) perylene	10	U
100-51-6	Benzyl Alcohol	10	U
65-85-0	Benzoic Acid	50	U

(1) - Cannot be separated from Diphenylamine

1F
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

NYSDEC SAMPLE NO.

S10MW1

Lab Name: NYTEST ENV INC

Contract: 9622464

Lab Code: NYTEST

Case No.: 27421

SAS No.:

SDG No.: GAC2S

Matrix: (soil/water) WATER

Lab Sample ID: 2742105

Sample wt/vol: 1000 (g/mL) ML

Lab File ID: Q1170.D

Level: (low/med) LOW

Date Received: 05/07/96

% Moisture: _____ decanted: (Y/N) _____

Date Extracted: 05/08/96

Concentrated Extract Volume: 1000 (uL)

Date Analyzed: 05/21/96

Injection Volume: 2.0 (uL)

Dilution Factor: 1.0

GPC Cleanup: (Y/N) N

pH: 7.0

Number TICs found: 16

CONCENTRATION UNITS:
(ug/L or ug/Kg) UG/L

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1.	UNKNOWN	2.887	30	J
2.	UNKNOWN	2.990	70	J
3.	UNKNOWN	3.042	31	J
4.	UNKNOWN	3.111	24	J
5.	UNKNOWN	3.388	11	J
6.	UNKNOWN	3.509	10	J
7.	UNKNOWN	3.613	66	JB
8.	UNKNOWN	3.716	9	JB
9.	UNKNOWN	3.820	97	JB
10.	UNKNOWN HYDROCARBON	3.872	37	JB
11.	UNKNOWN	4.269	16	J
12.	UNKNOWN AROMATIC	5.462	9	J
13.	UNKNOWN	5.998	10	J
14.	UNKNOWN	6.170	10	JB
15.	UNKNOWN	6.412	31	JB
16.	UNKNOWN	7.104	16	J
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000103

FORM I SV-TIC

NYSDEC ASP 12/91

1B
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

NYSDEC SAMPLE NO.

S10MW1RE

Lab Name: NYTEST ENV INC

Contract: 9622464

Lab Code: NYTEST

Case No.: 27421

SAS No.:

SDG No.: GAC2S

Matrix: (soil/water) WATER

Lab Sample ID: 2742105

Sample wt/vol: 1000 (g/mL) ML

Lab File ID: S0206.D

Level: (low/med) LOW

Date Received: 05/07/96

% Moisture: _____ decanted: (Y/N) _____

Date Extracted: 05/30/96

Concentrated Extract Volume: 1000 (UL)

Date Analyzed: 06/04/96

Injection Volume: 2.0 (uL)

Dilution Factor: 1.0

GPC Cleanup: (Y/N) N

pH: 7.0

CAS NO. COMPOUND CONCENTRATION UNITS:
(ug/L or ug/Kg) UG/L Q

108-95-2	Phenol	10	U
111-44-4	bis(2-Chloroethyl) Ether	10	U
95-57-8	2-Chlorophenol	10	U
541-73-1	1,3-Dichlorobenzene	10	U
106-46-7	1,4-Dichlorobenzene	10	U
95-50-1	1,2-Dichlorobenzene	10	U
95-48-7	2-Methylphenol	10	U
108-60-1	2,2'-oxybis(1-Chloropropane)	10	U
106-44-5	4-Methylphenol	10	U
621-64-7	N-Nitroso-di-n-propylamine	10	U
67-72-1	Hexachloroethane	10	U
98-95-3	Nitrobenzene	10	U
78-59-1	Isophorone	10	U
88-75-5	2-Nitrophenol	10	U
105-67-9	2,4-Dimethylphenol	10	U
120-83-2	2,4-Dichlorophenol	10	U
120-82-1	1,2,4-Trichlorobenzene	10	U
91-20-3	Naphthalene	10	U
106-47-8	4-Chloroaniline	10	U
87-68-3	Hexachlorobutadiene	10	U
111-91-1	bis(2-Chloroethoxy) methane	10	U
59-50-7	4-Chloro-3-Methylphenol	10	U
91-57-6	2-Methylnaphthalene	10	U
77-47-4	Hexachlorocyclopentadiene	10	U
88-06-2	2,4,6-Trichlorophenol	10	U
95-95-4	2,4,5-Trichlorophenol	50	U
91-58-7	2-Chloronaphthalene	10	U
88-74-4	2-Nitroaniline	50	U
131-11-3	Dimethylphthalate	10	U
208-96-8	Acenaphthylene	10	U
606-20-2	2,6-Dinitrotoluene	10	U
99-09-2	3-Nitroaniline	50	U
83-32-9	Acenaphthene	10	U

FORM I SV-1

NYSDEC ASP 12/91
000122

1C
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

NYSDEC SAMPLE NO.

S10MW1RE

Lab Name: NYTEST ENV INC Contract: 9622464
Lab Code: NYTEST Case No.: 27421 SAS No.: SDG No.: GAC2S
Matrix: (soil/water) WATER Lab Sample ID: 2742105
Sample wt/vol: 1000 (g/mL) ML Lab File ID: S0206.D
Level: (low/med) LOW Date Received: 05/07/96
% Moisture: _____ decanted: (Y/N) _____ Date Extracted: 05/30/96
Concentrated Extract Volume: 1000 (UL) Date Analyzed: 06/04/96
Injection Volume: 2.0 (uL) Dilution Factor: 1.0
GPC Cleanup: (Y/N) N pH: 7.0

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
51-28-5	2,4-Dinitrophenol	50	U
100-02-7	4-Nitrophenol	50	U
132-64-9	Dibenzofuran	10	U
121-14-2	2,4-Dinitrotoluene	10	U
84-66-2	Diethylphthalate	10	U
7005-72-3	4-Chlorophenyl-phenylether	10	U
86-73-7	Fluorene	10	U
100-01-6	4-Nitroaniline	50	U
534-52-1	4,6-Dinitro-2-methylphenol	50	U
86-30-6	N-Nitrosodiphenylamine (1)	10	U
101-55-3	4-Bromophenyl-phenylether	10	U
118-74-1	Hexachlorobenzene	10	U
87-86-5	Pentachlorophenol	50	U
85-01-8	Phenanthrene	10	U
120-12-7	Anthracene	10	U
86-74-8	Carbazole	10	U
84-74-2	Di-n-butylphthalate	10	U
206-44-0	Fluoranthene	10	U
129-00-0	Pyrene	10	U
85-68-7	Butylbenzylphthalate	10	U
91-94-1	3,3'-Dichlorobenzidine	20	U
56-55-3	Benzo(a)anthracene	10	U
218-01-9	Chrysene	10	U
117-81-7	bis(2-Ethylhexyl)phthalate	10	U
117-84-0	Di-n-octylphthalate	10	U
205-99-2	Benzo(b)fluoranthene	10	U
207-08-9	Benzo(k)fluoranthene	10	U
50-32-8	Benzo(a)pyrene	10	U
193-39-5	Indeno(1,2,3-cd)pyrene	10	U
53-70-3	Dibenz(a,h)anthracene	10	U
191-24-2	Benzo(g,h,i)perylene	10	U
100-51-6	Benzyl Alcohol	10	U
65-85-0	Benzoic Acid	50	U

(1) - Cannot be separated from Diphenylamine

000123

1F
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

NYSDEC SAMPLE NO.

S10MWIRE

Lab Name: NYTEST ENV INC

Contract: 9622464

Lab Code: NYTEST

Case No.: 27421

SAS No.:

SDG No.: GAC2S

Matrix: (soil/water) WATER

Lab Sample ID: 2742105

Sample wt/vol: 1000 (g/mL) ML

Lab File ID: S0206.D

Level: (low/med) LOW

Date Received: 05/07/96

% Moisture: _____ decanted: (Y/N) ___

Date Extracted: 05/30/96

Concentrated Extract Volume: 1000 (uL)

Date Analyzed: 06/04/96

Injection Volume: 2.0 (uL)

Dilution Factor: 1.0

GPC Cleanup: (Y/N) N

pH: 7.0

Number TICs found: 4

CONCENTRATION UNITS:
(ug/L or ug/Kg) UG/L

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1.	UNKNOWN AROMATIC	2.932	15	J
2.	UNKNOWN	3.471	6	J
3.	UNKNOWN	7.142	18	J
4.	UNKNOWN AROMATIC	13.753	2	J
5.				
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000124

FORM I SV-TIC

NYSDEC ASP 12/91

1
INORGANIC ANALYSES DATA SHEET

EPA SAMPLE NO.

DFB506

Sample Name: NYTEST_ENV_INC Contract: 9622464

Sample Code: NYTEST Case No.: 27421 SAS No.: SDG No.: GAC2

Matrix (soil/water): WATER Lab Sample ID: D742106

Level (low/med): LOW Date Received: 05/06/96

Solids: 0.0

Concentration Units (ug/L or mg/kg dry weight): UG/L

CAS No.	Analyte	Concentration	C	Q	M
7440-36-0	Antimony	3.9	U		P
7440-38-2	Arsenic	1.6	U		P
7440-41-7	Beryllium	0.24	B		P
7440-43-9	Cadmium	0.30	U		P
7440-47-3	Chromium	0.60	U		P
7440-50-8	Copper	1.3	U	EN	P
7439-92-1	Lead	1.5	U		P
7439-97-6	Mercury	0.20	U		CV
7440-02-0	Nickel	1.2	U		P
7782-49-2	Selenium	3.2	U		P
7440-22-4	Silver	0.70	U		P
7440-28-0	Thallium	2.1	U		P
7440-66-6	Zinc	16.8	B		P

Color Before: COLORLESS Clarity Before: CLEAR Texture:

Color After: COLORLESS Clarity After: CLEAR Artifacts:

Comments:
DISSOLVED

1
INORGANIC ANALYSES DATA SHEET

EPA SAMPLE NO.

FB506

Name: NYTEST_ENV_INC Contract: 9622464

Lab Code: NYTEST Case No.: 27421 SAS No.: SDG No.: GAC2

Matrix (soil/water): WATER Lab Sample ID: 742106

Level (low/med): LOW Date Received: 05/06/96

Solids: 0.0

Concentration Units (ug/L or mg/kg dry weight): UG/L

CAS No.	Analyte	Concentration	C	Q	M
7440-36-0	Antimony	3.9	U	N	P
7440-38-2	Arsenic	1.6	U	EN*	P
7440-41-7	Beryllium	0.27	B		P
7440-43-9	Cadmium	0.30	U	N	P
7440-47-3	Chromium	0.60	U	E*	P
7440-50-8	Copper	1.3	U	EN	P
7439-92-1	Lead	2.6	B	E*	P
7439-97-6	Mercury	0.20	U		CV
7440-02-0	Nickel	1.2	U		P
7782-49-2	Selenium	3.2	U	N	P
7440-22-4	Silver	0.70	U	N	P
7440-28-0	Thallium	2.1	U	*	P
7440-66-6	Zinc	5.5	B	E	P

Color Before: COLORLESS Clarity Before: CLEAR Texture:
Color After: COLORLESS Clarity After: CLEAR Artifacts:

Comments:
TOTAL

1
INORGANIC ANALYSES DATA SHEET

EPA SAMPLE NO.

DMW-101

Name: NYTEST_ENV_INC Contract: 9622464

Lab Code: NYTEST Case No.: 27421 SAS No.: SDG No.: GAC2

Matrix (soil/water): WATER Lab Sample ID: D742101

Level (low/med): LOW Date Received: 05/06/96

Solids: 0.0

Concentration Units (ug/L or mg/kg dry weight): UG/L

CAS No.	Analyte	Concentration	C	Q	M
7440-36-0	Antimony	3.9	U		P
7440-38-2	Arsenic	1.6	U		P
7440-41-7	Beryllium	0.37	B		P
7440-43-9	Cadmium	0.65	B		P
7440-47-3	Chromium	0.60	U		P
7440-50-8	Copper	1.5	B	EN	P
7439-92-1	Lead	1.5	B		P
7439-97-6	Mercury	0.20	U		CV
7440-02-0	Nickel	4.2	B		P
7782-49-2	Selenium	3.2	U		P
7440-22-4	Silver	0.70	U		P
7440-28-0	Thallium	2.3	B		P
7440-66-6	Zinc	8.9	B		P

Color Before: COLORLESS Clarity Before: CLEAR Texture:
Color After: COLORLESS Clarity After: CLEAR Artifacts:

Comments: DISSOLVED

INORGANIC ANALYSES DATA SHEET

MW-101

Name: NYTEST_ENV_INC Contract: 9622464

Lab Code: NYTEST Case No.: 27421 SAS No.: SDG No.: GAC2

Matrix (soil/water): WATER Lab Sample ID: 742101

Level (low/med): LOW Date Received: 05/06/96

Solids: 0.0

Concentration Units (ug/L or mg/kg dry weight): UG/L

CAS No.	Analyte	Concentration	C	Q	M
7440-36-0	Antimony	17.4	B	N	P
7440-38-2	Arsenic	223		EN*	P
7440-41-7	Beryllium	6.6			P
7440-43-9	Cadmium	0.30	U	N	P
7440-47-3	Chromium	283		E*	P
7440-50-8	Copper	249		EN	P
7439-92-1	Lead	140		E*	P
7439-97-6	Mercury	0.39			CV
7440-02-0	Nickel	65.2			P
7782-49-2	Selenium	10.3		N	P
7440-22-4	Silver	0.70	U	N	P
7440-28-0	Thallium	24.0		*	P
7440-66-6	Zinc	193		E	P

Color Before: BROWN Clarity Before: TURBID Texture:
Color After: YELLOW Clarity After: CLEAR Artifacts:

Comments:
TOTAL

1
INORGANIC ANALYSES DATA SHEET

EPA SAMPLE NO.

DMW-102

Name: NYTEST_ENV_INC

Contract: 9622464

Code: NYTEST

Case No.: 27421

SAS No.:

SDG No.: GAC2

Matrix (soil/water): WATER

Lab Sample ID: D742102

Level (low/med): LOW

Date Received: 05/06/96

Slits: 0.0

Concentration Units (ug/L or mg/kg dry weight): UG/L

CAS No.	Analyte	Concentration	C	Q	M
7440-36-0	Antimony	3.9	U		P
7440-38-2	Arsenic	1.6	U		P
7440-41-7	Beryllium	0.28	B		P
7440-43-9	Cadmium	1.1	B		P
7440-47-3	Chromium	0.60	U		P
7440-50-8	Copper	89.9		EN	P
7439-92-1	Lead	3.5			P
7439-97-6	Mercury	0.20	U		CV
7440-02-0	Nickel	6.2	B		P
7782-49-2	Selenium	3.2	U		P
7440-22-4	Silver	0.70	U		P
7440-28-0	Thallium	2.1	U		P
7440-66-6	Zinc	23.2			P

Color Before: COLORLESS

Clarity Before: CLEAR

Texture:

Color After: COLORLESS

Clarity After: CLEAR

Artifacts:

Comments:

DISSOLVED

1
INORGANIC ANALYSES DATA SHEET

EPA SAMPLE NO.

MW-102

Lab Name: NYTEST_ENV_INC _____ Contract: 9622464 _____
 Lab Code: NYTEST Case No.: 27421_ SAS No.: _____ SDG No.: GAC2_
 Matrix (soil/water): WATER Lab Sample ID: 742102
 Level (low/med): LOW_ Date Received: 05/06/96
 Solids: ____0.0

Concentration Units (ug/L or mg/kg dry weight): UG/L_

CAS No.	Analyte	Concentration	C	Q	M
7440-36-0	Antimony	3.9	U	N	P
7440-38-2	Arsenic	81.7		EN*	P
7440-41-7	Beryllium	3.1	B		P
7440-43-9	Cadmium	3.4	B	N	P
7440-47-3	Chromium	88.6		E*	P
7440-50-8	Copper	162		EN	P
7439-92-1	Lead	93.7		E*	P
7439-97-6	Mercury	0.32			CV
7440-02-0	Nickel	33.0	B		P
7782-49-2	Selenium	4.8	B	N	P
7440-22-4	Silver	0.70	U	N	P
7440-28-0	Thallium	10.7		*	P
7440-66-6	Zinc	153		E	P

Color Before: BROWN_ Clarity Before: TURBID Texture: _____
 Color After: YELLOW_ Clarity After: CLEAR_ Artifacts: _____

Comments:
 TOTAL _____

FORM I - IN ILM03.0
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INORGANIC ANALYSES DATA SHEET

EPA SAMPLE NO.

DS10MW1

Lab Name: NYTEST_ENV_INC

Contract: 9622464

Lab Code: NYTEST

Case No.: 27421

SAS No.: _____

SDG No.: GAC2

Matrix (soil/water): WATER

Lab Sample ID: D742105

Level (low/med): LOW

Date Received: 05/06/96

Solids: 0.0

Concentration Units (ug/L or mg/kg dry weight): UG/L

CAS No.	Analyte	Concentration	C	Q	M
7440-36-0	Antimony	3.9	U		P
7440-38-2	Arsenic	1.6	U		P
7440-41-7	Beryllium	0.43	B		P
7440-43-9	Cadmium	0.79	B		P
7440-47-3	Chromium	0.60	U		P
7440-50-8	Copper	4.0	B	EN	P
7439-92-1	Lead	1.7	B		P
7439-97-6	Mercury	0.20	U		CV
7440-02-0	Nickel	7.3	B		P
7782-49-2	Selenium	3.2	U		P
7440-22-4	Silver	0.70	U		P
7440-28-0	Thallium	3.0	B		P
7440-66-6	Zinc	78.5			P

Color Before: COLORLESS Clarity Before: CLEAR Texture: _____

Color After: COLORLESS Clarity After: CLEAR Artifacts: _____

Comments: DISSOLVED _____

1
INORGANIC ANALYSES DATA SHEET

EPA SAMPLE NO.

S10MW1

Lab Name: NYTEST_ENV_INC Contract: 9622464

Lab Code: NYTEST Case No.: 27421 SAS No.: SDG No.: GAC2

Matrix (soil/water): WATER Lab Sample ID: 742105

Level (low/med): LOW Date Received: 05/06/96

Solids: 0.0

Concentration Units (ug/L or mg/kg dry weight): UG/L

CAS No.	Analyte	Concentration	C	Q	M
7440-36-0	Antimony	3.9	U	N	P
7440-38-2	Arsenic	85.4	U	EN*	P
7440-41-7	Beryllium	2.7	B		P
7440-43-9	Cadmium	0.30	U	N	P
7440-47-3	Chromium	34.9	U	E*	P
7440-50-8	Copper	85.2	U	EN	P
7439-92-1	Lead	49.4	U	E*	P
7439-97-6	Mercury	2.0	U		CV
7440-02-0	Nickel	15.0	B		P
7782-49-2	Selenium	3.2	U	N	P
7440-22-4	Silver	0.70	U	N	P
7440-28-0	Thallium	11.9	U	*	P
7440-66-6	Zinc	148	U	E	P

Color Before: BROWN Clarity Before: TURBID Texture:
Color After: YELLOW Clarity After: CLEAR Artifacts:

Comments:
TOTAL

Appendix I



APPENDIX I

REFERENCES

REFERENCES

Dvirka and Bartilucci Consulting Engineers, Grumman Aerospace Corporation Phase I Site Assessment Plant 114, Hicksville, New York, March 1996.

Dvirka and Bartilucci Consulting Engineers, "New York State Site Registry Delisting Petition Site 10," September 1994.

Geraghty and Miller, Water Table Elevation and Contour Maps: April 1993, August 1993.