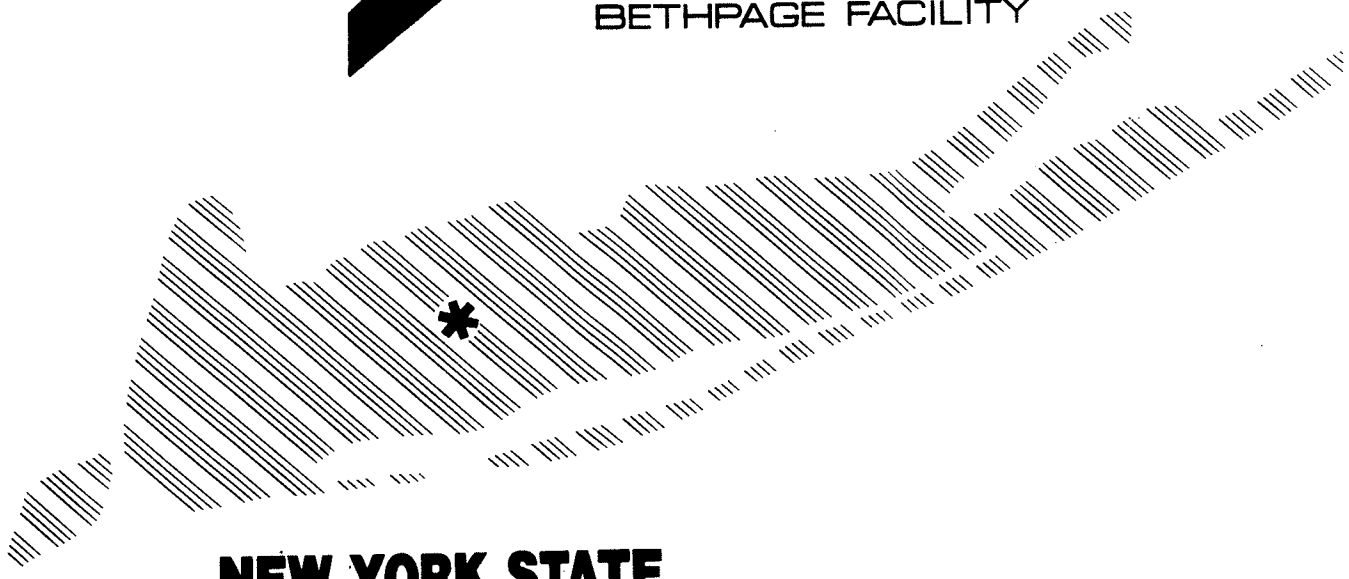
Dvirka and Bartilucci

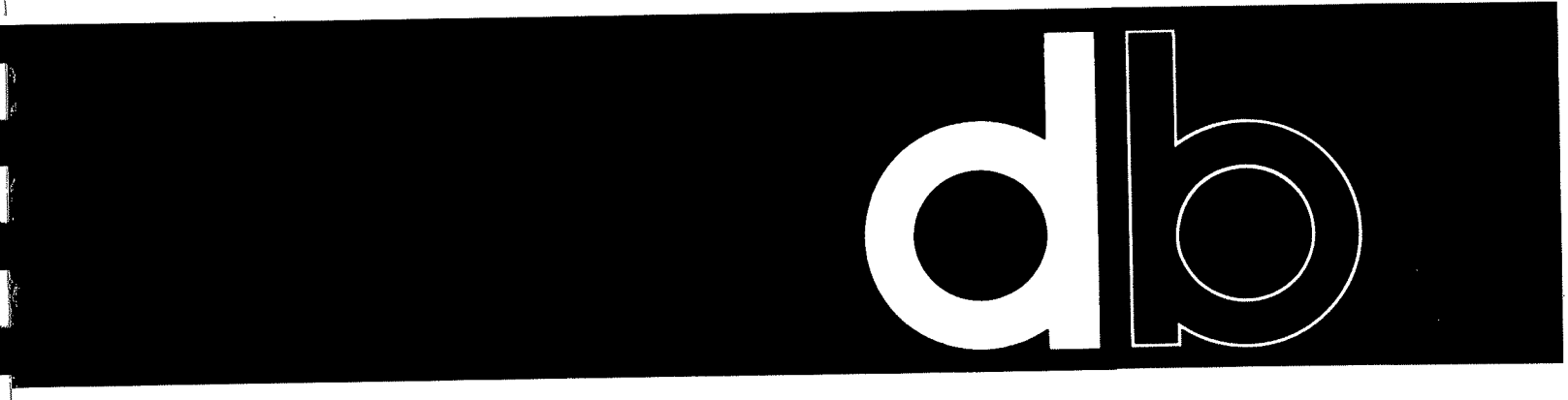
Consulting Engineers

GRUMMAN AEROSPACE CORPORATION
BETHPAGE FACILITY



NEW YORK STATE SITE REGISTRY DELISTING PETITION CENTRAL AVENUE HICKSVILLE, NEW YORK

GRUMMAN AEROSPACE CORPORATION
BETHPAGE, NEW YORK



Dvirka and Bartilucci
Consulting Engineers

JUNE 1994

Grumman Aerospace Corporation
Bethpage, New York 11714-3582

June 13, 1994

Langdon Marsh, Acting Commissioner
New York State Department of
Environmental Conservation
50 Wolf Road
Albany, NY 12233-7010

Re: New York State Site Registry Delisting Petition
Grumman Aerospace Corporation
Central Avenue
Hicksville, New York

Dear Mr. Marsh:

I am pleased to submit for your review three copies of the enclosed document, entitled "New York State Site Registry Delisting Petition, Central Avenue, Hicksville, New York," for the Grumman Aerospace Corporation property located to the north of the Central Avenue/Sheridan Avenue intersection in Hicksville, New York.

The report, prepared by our consultants, Dvirka and Bartilucci Consulting Engineers, documents the past and present use of the site based on a review of available records, and a narrative review of chronological aerial photographs of the area from 1950 through 1988. In addition, a presentation of soil and groundwater sampling results is provided along with a comparison to appropriate standards.

The information presented in this report will assist the New York State Department of Environmental Conservation (NYSDEC) in determining the nature of the use of the site over the past 40 years and to evaluate the merits of the delisting petition. Based on the review of available information and the environmental data, we believe that the property is eligible for removal from the NYSDEC Site Registry of Inactive Hazardous Waste Disposal Sites, and as such, an appropriate modification to the boundaries of Site 1-30-003A is warranted.

J. OHLMANN

JUN 15 1994

Director Corporate Environmental
Technology & Compliance

If you have any comments and/or questions regarding this matter, do not hesitate to contact me at (516) 575-2385.

Very truly yours,

John Ohlmann, P.E.
Director, Corporate Environmental Protection

JO/ss
Enclosure
cc:encl.: Robert Marino (NYSDEC)
♠1167/JO06104.lm

GRUMMAN AEROSPACE CORPORATION

NEW YORK STATE
SITE REGISTRY DELISTING PETITION
CENTRAL AVENUE
HICKSVILLE, NEW YORK

PREPARED BY
DVIRKA AND BARTILUCCI CONSULTING ENGINEERS
SYOSSET, NEW YORK

JUNE 1994

♠1167\A0525406

GRUMMAN AEROSPACE CORPORATION

NEW YORK STATE
SITE REGISTRY DELISTING PETITION
CENTRAL AVENUE
HICKSVILLE, NEW YORK

TABLE OF CONTENTS

TABLE OF CONTENTS (continue)

LIST OF FIGURES

LIST OF TABLES

Section 1

1.0 INTRODUCTION

Grumman Aerospace Corporation has directed the preparation of this report as part of an effort to satisfy the requirements for delisting a portion of the airport runway at the Bethpage facility adjacent to Central Avenue, hereafter referred to as "the site," from the New York State Site Registry of Inactive Hazardous Waste Disposal Sites (Site Code 1-30-003A). The site is located at the southern portion of the runway to the north of the Central Avenue/Sheridan Avenue intersection in Hicksville, New York. Information presented in this report has been compiled based upon a site inspection undertaken on February 1, 1994; an evaluation of available aerial photographs (1950-1988); along with interviews of various Grumman personnel. File searches conducted at Grumman Aerospace Corporation, the Nassau County Department of Health (NCDOH) and the Town of Oyster Bay did not reveal any relevant information of significance with regard to environmental conditions at the site. The purpose of this report is to determine and document the historical use of the site and the surrounding areas.

Section 2 of this document presents an evaluation of the site's history, present use and existing conditions, and the likelihood of potential adverse impacts from the federal Superfund site known as Hooker Chemical/Ruco Polymer. The procedures followed throughout the course of the field program are described in Section 3. The soil and groundwater sampling results, and the findings and conclusions of the site assessment, are presented in Section 4.

A location map is included in Appendix A, a current "Site Plan" is included in Appendix B, and aerial photographs of the site from 1950 through 1988 have been included in Appendix C. The report presents boring logs and the results of laboratory analyses of soil and groundwater samples in Appendices D and E, respectively.

Correspondence from the New York State Department of Environmental Conservation (NYSDEC) to the Grumman Aerospace Corporation provided a list of the "Delisting Petition Information" required for the Grumman properties. In order to facilitate the review of this document, the 14 items requested in the NYSDEC correspondence are listed on Table 1-1 with

Table 1-1

DELISTING PETITION INFORMATION

	Requirement	Response
1.	Site Name	Grumman, Bethpage
	Owner	Grumman Aerospace Corporation
2.	Site Number	1-30-003A
3.	Site Location	North of Central Avenue/ Sheridan Avenue Intersection Hicksville, Nassau County, NY 11801
4.	Size	Approximately 15 Acres
5.	Boundaries	See Appendices A, B and C
6.	Nature of Operation	See Sections 2.1 and 2.2
	Hazardous Waste Disposal	See Section 4
7.	History of Site	See Section 2.1
8.	History of Site Investigations	See Section 2.1 and 3
9.	Waste	See Section 2.2
10.	Affected Resources	See Sections 2.2 and 4
11.	Demographic Information	See Section 2.2
12.	Geographic Information	See Section 2.2
13.	Cleanup Actions	See Section 4
14.	Basis for Delisting	See Section 4

an appropriate response, or a cross reference to the location of such response in this document. The information supplied in this document is of sufficient detail to enable the NYSDEC to determine the nature of the site's past and present operations, and assess the potential for any on-site contamination.

Section 2

2.0 SITE EVALUATION

Location: North of Central Avenue/Sheridan Avenue Intersection
Hicksville, New York 11801

Section: 46	Land Use(s): Runway/Heliport
Block: 323	Plot Size: Approximately 15 acres
Lot: Portion of 17E	Grumman Building: N/A
Zoning: Industrial H	Building Area: N/A

2.1 Site History

As indicated by a review of the earliest available aerial photograph of the site taken in 1950 (See Appendix C), the existing runway was in existence at that date and the majority of the site appears to be representative of the site's current configuration, exclusive of the existing on-site recharge basin which first becomes apparent on a 1988 aerial photograph. A February 1, 1994 site inspection did not identify any apparent on-site changes since the date of the March 8, 1988 aerial photograph. Interviews with Grumman Aerospace Corporation personnel indicated that all aircraft maintenance and deicing procedures took place off-site and that the runway was "closed" in August 1990. Since that time, the runway has been and continues to be utilized by the County to stage Nassau County Police helicopters.

2.2 General Site Description

The site is currently owned by Grumman Aerospace Corporation, and the on-site runway is used by the County to stage Nassau County Police helicopters. The entire site is zoned Industrial H and comprises approximately 15 acres. The site is at the southern extreme of the Grumman Bethpage facility with commercial development and areas of medium density residential development existing to the west, east and south. The Site Plan is presented in Appendix B.

According to interviews with Grumman personnel, a review of agency files and Grumman records, there is no apparent evidence of the past or present existence of any on-site storage tanks or leaching pools, other than those associated with stormwater drainage.

The only permanent on-site structures identified by a review of Grumman utility maps, available aerial photographs (1950-1988) and the February 1, 1994 site inspection were thrust deflectors along the perimeter of the south end of the runway and lighting fixtures associated with typical runway operations. No areas of stressed vegetation were observed during the February 1, 1994 site inspection.

The site is generally level with topography gradually sloping away from the runway to facilitate drainage. Catch basins utilized for storm water runoff are located throughout the site and a storm water recharge basin is located in the northeastern portion of the site. The Soil Conservation Service classifies the runway (approximately 50 percent of the site) as Urban Land with surrounding areas of Udipsaments (nearly level). Urban Land is defined as an area with at least 85 percent asphalt, concrete, or other impervious building material, with most of the remaining small areas of soil being well drained Riverhead, Hempstead, or Enfield soils, or excessively drained Udipsaments. Udipsaments (nearly level) are defined as manmade fills or borrow areas, most of which are grass-covered with slopes of 0 to 3 percent, which consists of very deep soils that are excessively drained to well drained. Based on measurements obtained during the installation of groundwater monitoring wells at the site, the depth from ground surface to the upper glacial aquifer is approximately 45 feet.

2.3 Hooker Chemical Site

An element related to the delisting of the site is the proximity of the property to the Hooker Chemical/Ruco Polymer NPL site. This site has been on the federal Superfund list since 1984 and remains active. The site has been the subject of monitoring and investigations intended to identify the extent of contamination and hazard resulting from previous waste disposal practices at this site. A Remedial Investigation and Feasibility Study (RI/FS) has been conducted,

with the associated field work completed in February 1990. The RI/FS identified two operable units at the Hooker Chemical site requiring remedial action.

Operable Unit 1 has necessitated the remediation of soil and groundwater contaminated by volatile organic compounds (VOCs) used in the various manufacturing processes employed by the facilities on-site. Based upon communication with the EPA, the RI report was approved on December 7, 1992. The associated Feasibility Study was subsequently completed and a Record of Decision on a Proposed Remedial Action Plan was signed on January 28, 1994. Based upon recent communication with the EPA, a unilateral administration order is currently being drafted to address Operable Unit 1.

Operable Unit 2 pertains to a relatively small area of soil contaminated by PCBs resulting from releases of the heat transfer fluid Therminol. The migration of PCBs from the on-site structure referred to as the "Pilot Plant" to other portions of the site was enhanced by storm water runoff and on-site truck traffic. However, the extent of contaminated soil is contained entirely on the Hooker Chemical/Ruco Polymer site. No off-site contamination has been identified from Operable Unit 2. Remedial action involving Operable Unit 2 has been completed.

Until the EPA finalizes its review and releases all details concerning Operable Unit 1, it is not possible to fully characterize the extent of off-site impacts. However, the nearest area of the site proposed for delisting is located over 1 mile to the southeast of this area, and is likely removed from any significant adverse conditions present at the Hooker Chemical/Ruco Polymer site.

Section 3

3.0 FIELD PROGRAM

The following is a description of the field activities undertaken at the site in support of the delisting petition. Daily Field Activity Reports, which are available in the project file, provide documentation of the field program which included air monitoring, the installation of 12 soil borings, the installation of two monitoring wells and the sampling of four groundwater monitoring wells.

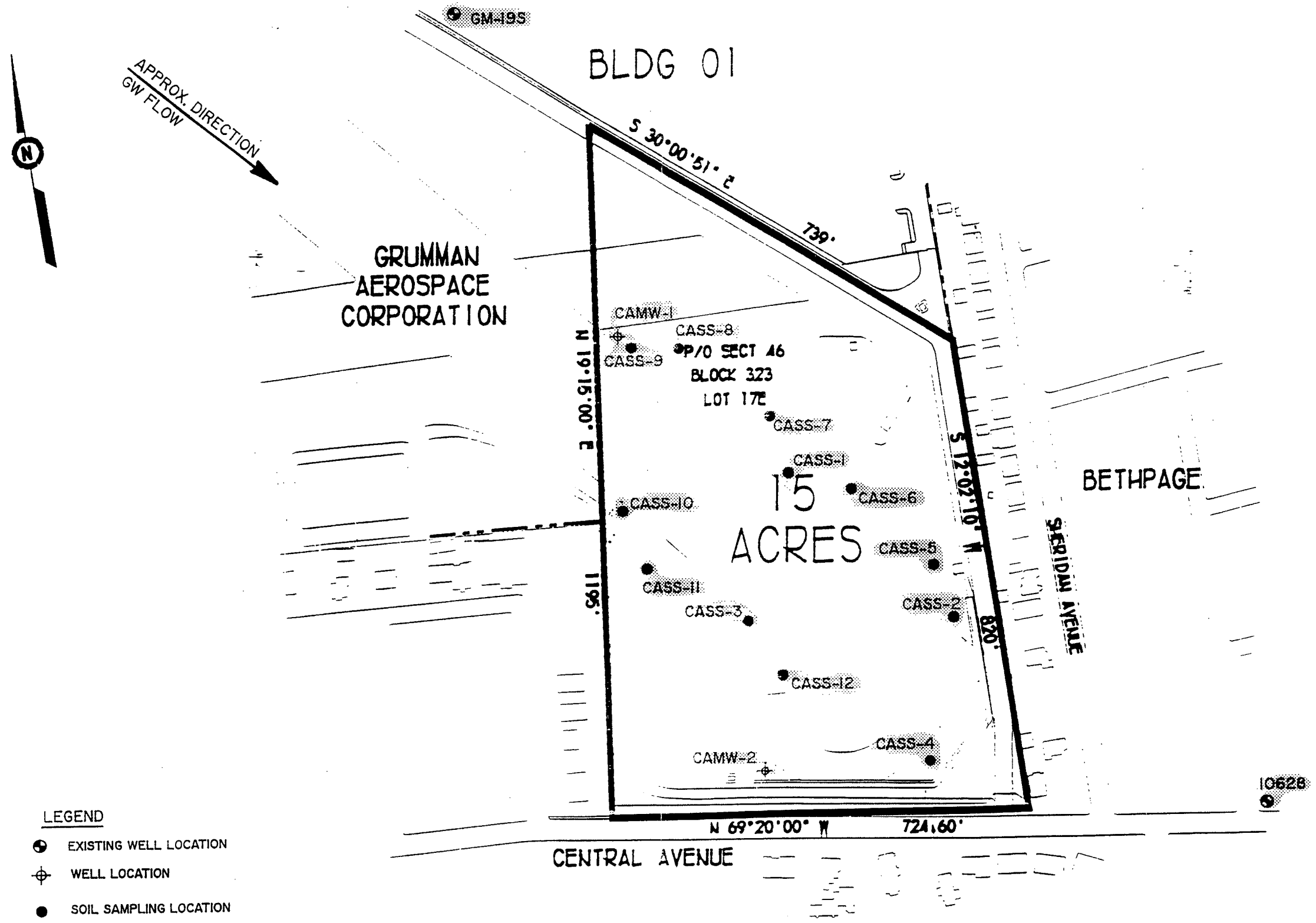
3.1 Volatile Organics Monitoring

During the drilling of the monitoring wells, volatile organic vapors were not detected in the workers' breathing zone. The air monitoring results were documented on daily Air Monitoring Forms which are available in the project file. Prior to use, the organic vapor analyzer (OVA-128), which is a flame ionization detector, was calibrated with 95 percent methane gas/zero air. The Equipment Calibration Logs are also available in the project file. As described previously, the split spoon samples were also monitored for volatile organics utilizing the OVA-128 and no volatile organics were detected.

3.2 Monitoring Well Installation

An existing USGS well (NYS well ID #10628), located to the southeast of the site, was utilized as a downgradient well, and an existing Grumman Aerospace Corporation monitoring well (GM-19), located to the northwest of the site, was utilized as an upgradient well. In addition, one upgradient monitoring well (CAMW-1) was installed along the western boundary of the site and one downgradient monitoring well (CAMW-2) was installed along the southern boundary of the site.

Figure 3-1 presents the locations of these wells, and Figures 3-2 and 3-3 present the construction logs for the installed wells. The wells were installed in borings advanced using the hollow stem auger method of drilling. Well construction consisted of 2-inch I.D. PVC screen



GRUMMAN AEROSPACE CORPORATION
BETHPAGE FACILITY
PROPERTY AT CENTRAL AVENUE

SAMPLING LOCATIONS

Dvirka and Bartilucci CONSULTING ENGINEERS

FIGURE 3 - 1

Dvirka and Bartilucci CONSULTING ENGINEERS

WELL CONSTRUCTION LOG

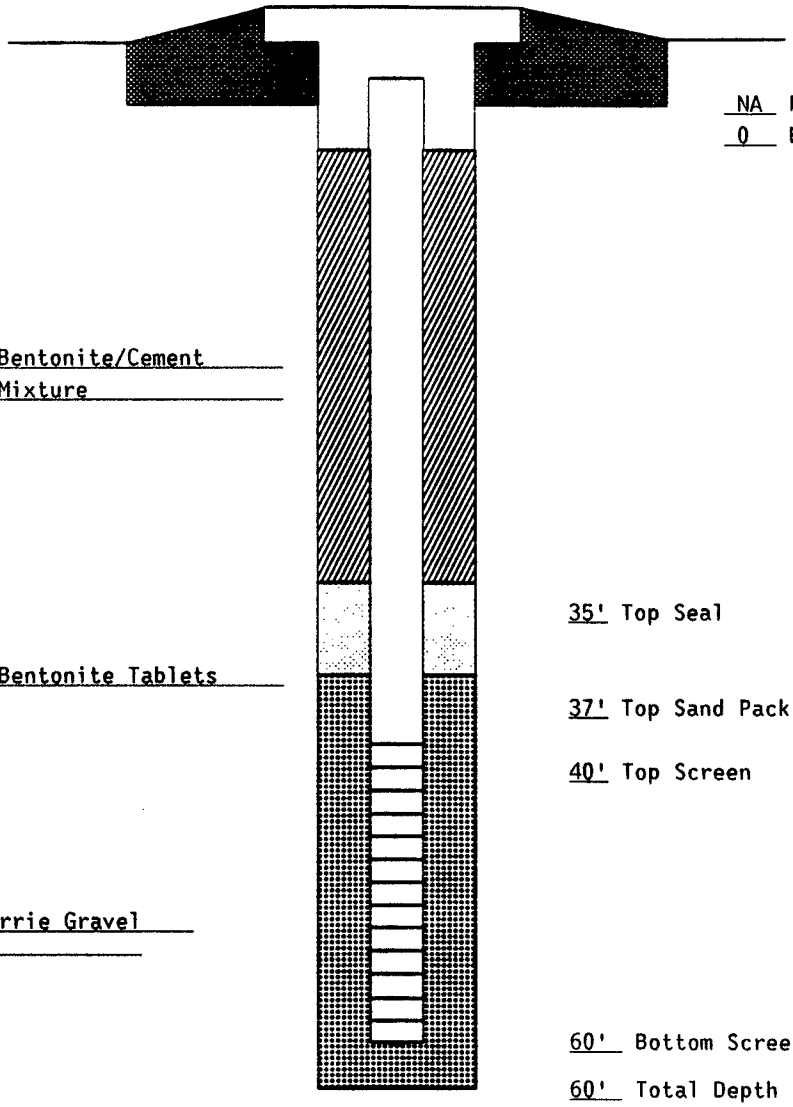
SITE Grumman JOB NO. 1167-L WELL NO. CAMW-1

TOTAL DEPTH 60' SURFACE ELEV. N/A TOP RISER ELEV. N/A

WATER LEVELS (DEPTH, DATE, TIME) 46.0', 2/16/94 DATE INSTALLED 2/16/94

RISER DIA 2" MATERIAL PVC LENGTH 40'
SCREEN DIA 2" MATERIAL PVC LENGTH 20' SLOT SIZE 0.010"

SCHEMATIC



Ground Surface

Surface Seal Type Portland Cement

NA Riser Elevation
0 Bottom Surface Seal

Grout Type Bentonite/Cement Mixture

Seal Type Bentonite Tablets

35' Top Seal

37' Top Sand Pack

40' Top Screen

Sand Pack Type Morrie Gravel
Size Number One

60' Bottom Screen

60' Total Depth of Boring

5175G/2

Dvirka and Bartilucci
CONSULTING ENGINEERS

WELL CONSTRUCTION LOG

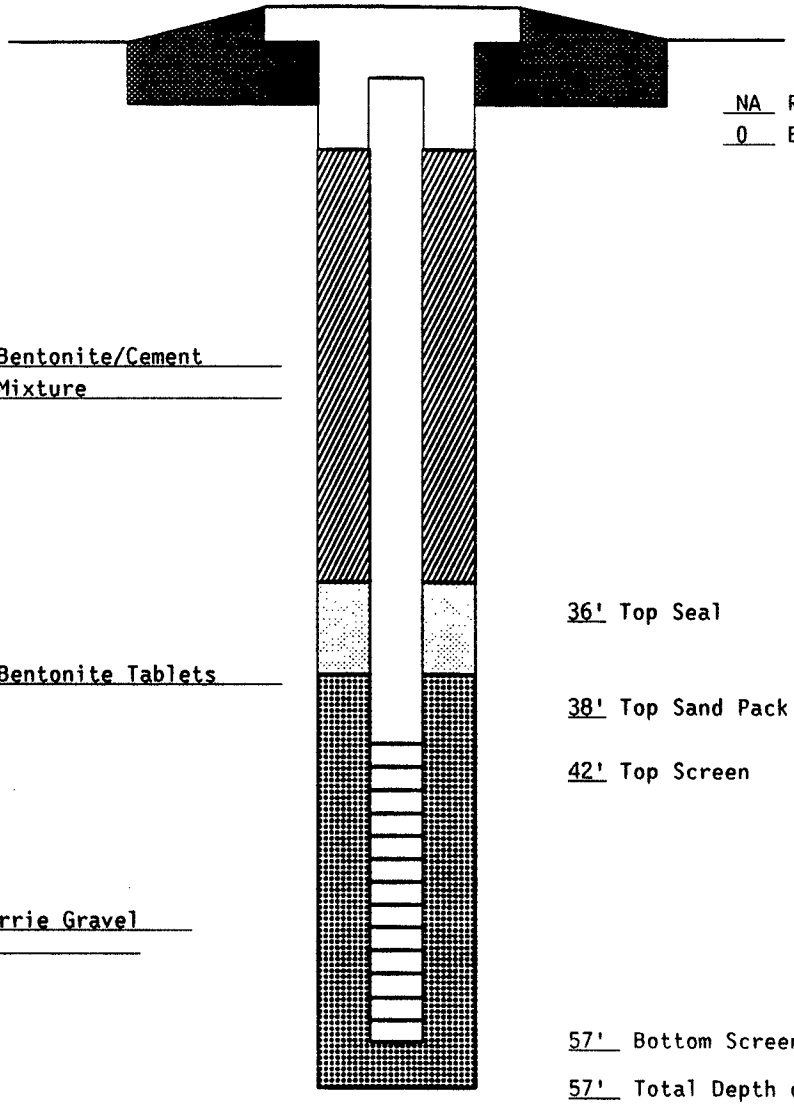
SITE Grumman JOB NO. 1167-L WELL NO. CAMW-2

TOTAL DEPTH 57' SURFACE ELEV. N/A TOP RISER ELEV. N/A

WATER LEVELS (DEPTH, DATE, TIME) 44.40', 2/7/94 DATE INSTALLED 2/7/94

RISER DIA 2" MATERIAL PVC LENGTH 42'
SCREEN DIA 2" MATERIAL PVC LENGTH 15' SLOT SIZE 0.010"

SCHEMATIC



5175G/1

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 screen and water table at each installed well:

Well ID	Depth of Screen	Depth of Water Table
CAMW-1	60 ft	46.0 ft
CAMW-2	57 ft	44.4 ft

A sandpack was installed around each 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 and/or bailed. The wells were considered developed when the discharge water measured 50 nephelometric turbidity units (NTUs) or less or after 2 hours of continuous pumping, whichever occurred first.

3.3 Monitoring Well Borehole Soil Sampling

During construction of the monitoring well boreholes, split spoon samples were collected continuously for the first 10 feet and every 5 feet from that point on to the well completion depth. Appendix D includes the boring logs for the monitoring well boreholes installed as part of this project.

Thirteen split spoon samples were obtained from the CAMW-1 borehole. The split spoon samples indicated that the soil in the area of CAMW-1 was mostly brown/tan coarse-medium sand with little to some gravel to a depth of 35 feet, light tan/white/brown fine sand with trace gravel and trace amounts of brown clayey silt lenses to a depth of 51 feet, and brown coarse sand and gravel to a depth of 60 feet.

Twelve split spoon samples were obtained from the CAMW-2 borehole. The split spoon samples indicated that the soil in the area of CAMW-2 was mostly brown/orange/tan coarse to medium sand with little to some gravel to a depth of 30 feet, and light tan/brown medium to fine sand with little to trace gravel to a depth of 47 feet.

Field screening of the split spoon samples collected from the CAMW-1 and CAMW-2 boreholes, taken with an organic vapor analyzer during construction, did not indicate readings above ambient conditions, and there was no apparent indication of contamination associated with discoloration, odor or soil texture. A soil sample for laboratory analysis was obtained from the split spoon sample collected at the 6 to 8-foot interval from the CAMW-1 borehole. A soil sample for laboratory analysis was obtained from the split spoon sample collected from the 4 to 6-foot interval from the CAMW-2 borehole. The soil samples were analyzed for volatile organics (Method 8010/8020), glycols (glycol scan), total petroleum hydrocarbons (Method 418.1) fuel-related constituents (Method 310-13) and PCBs (Method 8080). The analytical results from the monitoring well borehole soil samples are presented in Section 4.

3.4 Soil Boring Sampling

Soil samples were obtained from soil borings advanced along a grid pattern to a depth of 1-foot in 12 locations immediately adjacent to or 50 feet lateral to the runway. Soil samples were initially obtained with a sterile disposable polyethylene scoop at the 0 to 6-inch interval from four locations (CASS-1 through CASS-4) immediately adjacent to the runway for laboratory analysis of volatile organics (Method 8010/8020), glycols (glycol scan), total petroleum hydrocarbons (Method 418.1), fuel-related constituents (Method 310-13) and metals (Method 6010). Additional soil samples were subsequently obtained with a sterile disposable polyethylene scoop at the 9 to 12-inch intervals from CASS-1 through CASS-4 and from the 0 to 6-inch and 9 to 12-inch intervals from eight additional locations (CASS-5 through CASS-12) for laboratory analysis of metals (Method 6010). The analytical results from the soil boring samples are presented in Section 4.

3.5 Groundwater Sampling

Prior to well sampling, a minimum of three times the volume of standing water in the casing and sandpack from each well (CAMW-1, CAMW-2, GM-19S and 10628) was removed with a bailer. One sample was collected from each well for laboratory analysis. The water samples were analyzed for volatile organics (Method 624), fuel-related constituents (Method 310-14), glycols (glycol scan) and metals (Method 6010). The analytical results from the groundwater samples are presented in Section 4.

Section 4

4.0 FINDINGS AND CONCLUSIONS

The volatile organic analytical results from the groundwater samples are compared to the New York State Department of Health (NYSDOH) Drinking Water Standards. Soil sample results are compared to recommended soil cleanup objectives and "eastern U.S. background" levels, as identified in the New York State Department of Environmental Conservation (NYSDEC) Technical and Administrative Guidance Memorandum (TAGM 4046). The results are discussed in detail by matrix in the following sections.

4.1 Monitoring Well Borehole Soil Sampling

One soil sample was collected from each of the monitoring well boreholes and analyzed for volatile organics (Method 8010/8020), glycols (glycol scan), total petroleum hydrocarbons (Method 418.1), fuel-related constituents (Method 310-13) and PCBs (Method 8080). The results of these analyses are presented on Tables 4-1 through 4-4.

As indicated on Tables 4-1 and 4-2, volatile organics and glycols were not detected above the method detection limit.

The levels of total petroleum hydrocarbons for CAMW-1 and CAMW-2 are presented on Table 4-3. In samples CAMW-1 and CAMW-2 the levels of TPHCs were detected at 127 mg/kg and 126 mg/kg, respectively, utilizing EPA Method 418.1. As previously mentioned, there is no evidence of any prior fuel spills or releases, nor was there any evidence of either discoloration or petroleum odors associated with the geologic or laboratory samples collected.

To determine if the TPHCs detected were attributable to fuel-related spills, the samples were also analyzed for fuel-related constituents utilizing NYSDOH Method 310-13 and PCBs utilizing Method 8080. The analytical results for samples CAMW-1 and CAMW-2 utilizing Method 310-13 are presented in Table 4-3 and indicate that the fuel-related constituents such as

TABLE 4-1
GRUMMAN AEROSPACE CORPORATION
CENTRAL AVENUE
SOIL SAMPLING
VOLATILE ORGANICS

SAMPLE ID	CAMW1	CAMW2	CASS-1	CASS-2	CASS-3	CASS-4	NYSDEC RECOMMENDED SOIL CLEANUP OBJECTIVE (ug/kg)
SAMPLE DEPTH	6-8 FT	4-6 FT	0-6 in	0-6 in	0-6 in	0-6 in	
DATE COLLECTED	2/16/94	2/7/94	3/21/94	3/21/94	3/21/94	3/21/94	
DILUTION FACTOR	1	1	1	1	1	1	
% MOISTURE	2	8	28	21	18	20	
VOLATILE ORGANICS (ug/kg)							
Chloromethane	U	U	U	U	U	U	—
Bromomethane	U	U	U	U	U	U	—
Vinyl chloride	U	U	U	U	U	U	200
Chloroethane	U	U	U	U	U	U	1900
Methylene chloride	U	U	U	8.9 B	14 B	U	100
1,1-Dichloroethene	U	U	U	U	U	U	400
1,1-Dichloroethane	U	U	U	U	U	U	200
1,2-Dichloroethene (trans)	U	U	U	U	U	U	300
Chloroform	U	U	U	U	U	U	300
1,2-Dichloroethane	U	U	U	U	U	U	100
1,1,1-Trichloroethane	U	U	U	U	U	U	800
Carbon tetrachloride	U	U	U	U	U	U	600
Bromodichloromethane	U	U	U	U	U	U	—
1,2-Dichloropropane	U	U	U	U	U	U	—
cis-1,3-Dichloropropene	U	U	U	U	U	U	—
Trichloroethene	U	U	U	U	U	U	700
Dibromochloromethane	U	U	U	U	U	U	—
1,1,2-Trichloroethane	U	U	U	U	U	U	—
Benzene	U	U	U	U	U	U	60
trans-1,3-Dichloropropene	U	U	U	U	U	U	—
Tetrachloroethene	U	U	U	U	U	U	1400
1,1,2,2-Tetrachloroethane	U	U	U	U	U	U	600
Toluene	U	U	0.8 J	1.5	1.4	U	1500
Chlorobenzene	U	U	U	U	U	U	1700
Ethylbenzene	U	U	U	U	U	U	5500
Xylene (total)	U	U	U	U	U	U	1200
2-Chloroethylvinylether	U	U	U	U	U	U	—
Dichlorodifluoromethane	U	U	U	U	U	U	—
Trichlorofluoromethane	U	U	U	U	U	U	—
1,2-Dichlorobenzene	U	U	U	U	U	U	7900
1,3-Dichlorobenzene	U	U	U	U	U	U	1600
1,4-Dichlorobenzene	U	U	U	U	U	U	8500
Bromoform	U	U	U	U	U	U	—

QUALIFIERS:

U: Analyzed for but not detected

B: Compound found in the blank as well as the sample

J: Result estimated since found at a concentration below the CRDL

NOTE:

—: Not established

TABLE 4-2
GRUMMAN AEROSPACE CORPORATION
CENTRAL AVENUE
SOIL SAMPLING
GLYCOL SCAN

SAMPLE ID	CAMW1	CAMW2	CASS-1	CASS-2	CASS-3	CASS-4
SAMPLE DEPTH	6-8 FT	4-6 FT	0-6 in	0-6 in	0-6 in	0-6 in
DATE COLLECTED	2/16/94	2/7/94	3/21/94	3/21/94	3/21/94	3/21/94
Propylene Glycol	U	U	U	U	U	U
Ethylene Gylcol	U	U	U	U	U	U

QUALIFIERS:
U: Analyzed for but not detected

TABLE 4-3
GRUMMAN AEROSPACE CORPORATION
CENTRAL AVENUE
SOIL SAMPLING
TOTAL PETROLEUM HYDROCARBONS AND FUEL RELATED CONSTITUENTS

SAMPLE ID	CAMW1	CAMW2	CASS-1	CASS-2	CASS-3	CASS-4
SAMPLE DEPTH	6-8 FT	4-6 FT	0-6 in	0-6 in	0-6 in	0-6 in
DATE COLLECTED	2/16/94	2/7/94	3/21/94	3/21/94	3/21/94	3/21/94
TOTAL PETROLEUM HYDROCARBONS (mg/kg)	127	126	NA	NA	NA	NA
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
Jet Fuel	U	U	U	U	U	U
TPH (as Jet Fuel)	U	U	U	U	U	U

QUALIFIERS:
U: Analyzed for but not detected
NA: Not Analyzed

TABLE 4-4
GRUMMAN AEROSPACE CORPORATION
CENTRAL AVENUE
SOIL SAMPLING
PCB ORGANICS

SAMPLE ID	CAMW1	CAMW2	NYSDEC RECOMMENDED SOIL CLEANUP OBJECTIVE
SAMPLE DEPTH	6-8 FT.	4-6 FT.	
DATE COLLECTED	2/16/94	2/7/94	
UNITS	(ug/kg)	(ug/kg)	(ug/kg)
PARAMETER			
Aroclor-1016	U	U	10,000*
Aroclor-1221	U	U	10,000*
Aroclor-1232	U	U	10,000*
Aroclor-1242	U	U	10,000*
Aroclor-1248	U	U	10,000*
Aroclor-1254	U	U	10,000*
Aroclor-1260	U	U	10,000*

QUALIFIERS:
U: Analyzed for but not detected

NOTE:
*: Value for total PCBs

gasoline, lubricating oil, kerosene, fuel oil and jet fuel were not detected above the method detection limit. The analytical results for samples CAMW-1 and CAMW-2 utilizing Method 8080 are presented in Table 4-4 and indicate that PCBs were not detected above the method detection limit. Therefore, it appears that the TPHCs detected in the monitoring well borehole soil samples are not associated with any fuel-related spills. It is also important to note that the detected levels of total petroleum hydrocarbons are not atypical of shallow subsurface soils that receive storm water runoff from areas of extensive asphalt pavement, as is exhibited at this site through storm water runoff from the runway.

4.2 Soil Boring Sampling

In addition to presenting the analytical results from the soil samples obtained from the monitoring well boreholes, Tables 4-1 through 4-3 also present the analytical results volatile organic, glycol, and fuel-related constituents from the surficial soil samples collected from CASS-1 through CASS-4. There were no volatile organics detected above the referenced NYSDEC recommended soil cleanup objectives and there were no glycols or fuel-related constituents detected above the method detection limits.

The results of the inorganic analyses of soil samples CASS-1 through CASS-12 are presented on Table 4-5. As indicated on Table 4-5, several inorganic constituents were detected above the NYSDEC recommended cleanup objectives. These soil borings were advanced to a depth of 1-foot in 12 locations immediately adjacent to the runway and approximately 50-feet lateral to the runway. It should be noted that the majority of the elevated levels of priority pollutant metals were detected at the 0 to 6-inch intervals. It should also be noted that, while certain metals were detected in concentrations above the referenced New York State Department of Environmental Conservation (NYSDEC) soil cleanup objectives, the majority of the priority pollutant metals were detected at concentrations below the published typical "eastern U.S. background" levels, as defined by the NYSDEC Technical and Administrative Guidance Memorandum (TAGM) No. 4046. As previously mentioned, it is also important to note that the

TABLE 4-5
GRUMMAN AEROSPACE CORPORATION
CENTRAL AVENUE
SOIL SAMPLING
INORGANIC CONSTITUENTS

SAMPLE ID	CASS-1	CASS-1	CASS-2	CASS-2	NYSDEC RECOMMENDED SOIL CLEANUP OBJECTIVES	EASTERN USA BACKGROUND
SAMPLE DEPTH	0-6 in	9-12 in	0-6 in	9-12 in		
DATE COLLECTED	3/21/94	4/27/94	3/21/94	4/27/94		
UNITS	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)
PARAMETER						
Antimony	U	U	U	U	SB	NA
Arsenic	6	1.8 B	20.9	5.9	7.5 or SB	3-12
Beryllium	0.58 B	0.36 B	0.63 B	0.32 B	0.16 or SB	0-1.75
Cadmium	U	U	U	U	1.0 or SB	0.1-1
Chromium	20.7	6.1	42.4	7.3	10 or SB	1.5-40
Copper	29.5	1.2 B	27.7	2.2 B	25 or SB	1-50
Lead	203	7.1	335	13.8	SB	200-500*
Mercury	0.16	0.14	U	U	0.1	0.001-0.2
Nickel	15.3	U	18.2	5.5 B	13 or SB	0.5-25
Selenium	U	U	U	U	2 or SB	0.1-3.9
Silver	U	U	U	U	SB	NA
Thallium	U	U	U	U	SB	NA
Zinc	110	14.6	144	19.4	20 or SB	9-50

QUALIFIERS:
U: Analyzed for but not detected
B: Value less than contract required detection limits but greater than instrument detection limits.

NOTES
*Average backround level in metropolitan or suburban areas or near highways
: Result exceeds cleanup objectives
SB: Site backround
NA: Not Available

TABLE 4-5
GRUMMAN AEROSPACE CORPORATION
CENTRAL AVENUE
SOIL SAMPLING
INORGANIC CONSTITUENTS

SAMPLE ID	CASS-3	CASS-3	CASS-4	CASS-4	NYSDEC RECOMMENDED SOIL CLEANUP OBJECTIVES	EASTERN USA BACKGROUND
SAMPLE DEPTH	0-6 in	9-12 in	0-6 in	9-12 in		
DATE COLLECTED	3/21/94	4/27/94	3/21/94	4/27/94		
UNITS	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)
PARAMETER						
Antimony	U	U	U	U	SB	NA
Arsenic	5.6	6.8	8.9	5.3	7.5 or SB	3-12
Beryllium	0.48 B	0.46 B	0.64 B	0.53 B	0.16 or SB	0-1.75
Cadmium	U	U	U	U	1.0 or SB	0.1-1
Chromium	18.7	5.1	36.4	3.2	10 or SB	1.5-40
Copper	24.5	1.6 B	31.1	U	25 or SB	1-50
Lead	186	6.2	217.0	8.7	SB	200-500*
Mercury	U	0.13	0.13	U	0.1	0.001-0.2
Nickel	20.7	U	16.7	U	13 or SB	0.5-25
Selenium	U	U	U	U	2 or SB	0.1-3.9
Silver	U	U	U	U	SB	NA
Thallium	U	U	U	U	SB	NA
Zinc	139	19.8	108	6.9	20 or SB	9-50

QUALIFIERS:
U: Analyzed for but not detected
B: Value less than contract required detection limits but greater than instrument detection limits.

NOTES
*Average backround level in metropolitan or suburban areas or near highways
: Result exceeds cleanup objectives
SB: Site backround
NA: Not Available

TABLE 4-5
GRUMMAN AEROSPACE CORPORATION
CENTRAL AVENUE
SOIL SAMPLING
INORGANIC CONSTITUENTS

SAMPLE ID	CASS-5	CASS-5	CASS-6	CASS-6	NYSDEC RECOMMENDED SOIL CLEANUP OBJECTIVES	EASTERN USA BACKGROUND
SAMPLE DEPTH	0-6 in	9-12 in	0-6 in	9-12 in		
DATE COLLECTED	4/27/94	4/27/94	4/27/94	4/27/94		
UNITS	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)
PARAMETER						
Antimony	U	7.8 B	U	U	SB	NA
Arsenic	3.4 B	1.4 B	6.2	4.3	7.5 or SB	3-12
Beryllium	0.33 B	0.35 B	0.35 B	0.35 B	0.16 or SB	0-1.75
Cadmium	U	U	U	U	1.0 or SB	0.1-1
Chromium	6.4	5.1	7.9	7.7	10 or SB	1.5-40
Copper	1.4 B	U	2.5 B	U	25 or SB	1-50
Lead	8.5	3.9	20.8	4.3	SB	200-500*
Mercury	U	U	U	U	0.1	0.001-0.2
Nickel	U	U	U	U	13 or SB	0.5-25
Selenium	U	U	U	U	2 or SB	0.1-3.9
Silver	U	U	U	U	SB	NA
Thallium	U	U	U	U	SB	NA
Zinc	15.5	14.8	15.4	12.5	20 or SB	9-50

QUALIFIERS:
U: Analyzed for but not detected
B: Value less than contract required detection limits but greater than instrument detection limits.

NOTES
*Average backround level in metropolitan or suburban areas or near highways
: Result exceeds cleanup objectives
SB: Site backround
NA: Not Available

TABLE 4-5
GRUMMAN AEROSPACE CORPORATION
CENTRAL AVENUE
SOIL SAMPLING
INORGANIC CONSTITUENTS

SAMPLE ID	CASS-7	CASS-7	CASS-8	CASS-8	NYSDEC RECOMMENDED SOIL CLEANUP OBJECTIVES	EASTERN USA BACKGROUND
SAMPLE DEPTH	0-6 in	9-12 in	0-6 in	9-12 in		
DATE COLLECTED	4/27/94	4/27/94	4/27/94	4/27/94		
UNITS	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)
PARAMETER						
Antimony	U	U	U	U	SB	NA
Arsenic	4.1	8.7	3.8	2.3	7.5 or SB	3-12
Beryllium	0.36 B	0.82 B	0.34 B	0.48 B	0.16 or SB	0-1.75
Cadmium	U	U	U	U	1.0 or SB	0.1-1
Chromium	6.4	8.5	5.6	4.1	10 or SB	1.5-40
Copper	1.4 B	1.9 B	U	U	25 or SB	1-50
Lead	10.1	14.9	15.8	2.6	SB	200-500*
Mercury	0.11	0.12	U	U	0.1	0.001-0.2
Nickel	U	U	U	U	13 or SB	0.5-25
Selenium	U	U	U	U	2 or SB	0.1-3.9
Silver	U	U	U	U	SB	NA
Thallium	U	U	U	U	SB	NA
Zinc	11.8	20.6	11.1	7.5	20 or SB	9-50

QUALIFIERS:
U: Analyzed for but not detected
B: Value less than contract required detection limits but greater than instrument detection limits.

NOTES
*Average backround level in metropolitan or suburban areas or near highways
: Result exceeds cleanup objectives
SB: Site backround
NA: Not Available

TABLE 4-5
GRUMMAN AEROSPACE CORPORATION
CENTRAL AVENUE
SOIL SAMPLING
INORGANIC CONSTITUENTS

SAMPLE ID	CASS-9	CASS-9	CASS-10	CASS-10	NYSDEC RECOMMENDED SOIL CLEANUP OBJECTIVES	EASTERN USA BACKGROUND
SAMPLE DEPTH	0-6 in	9-12 in	0-6 in	9-12 in		
DATE COLLECTED	4/27/94	4/27/94	4/27/94	4/27/94		
UNITS	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)
PARAMETER						
Antimony	U	U	U	U	SB	NA
Arsenic	8	8.2 B	5.4	3.8	7.5 or SB	3-12
Beryllium	0.68 B	0.62 B	0.33 B	0.24 B	0.16 or SB	0-1.75
Cadmium	U	U	U	U	1.0 or SB	0.1-1
Chromium	10.9	8.6	8	3.8	10 or SB	1.5-40
Copper	11.1	8	6.8	11.8	25 or SB	1-50
Lead	47.4	20.9	43.4	5.8	SB	200-500*
Mercury	0.16	0.22	0.16	0.11	0.1	0.001-0.2
Nickel	10.2	U	U	U	13 or SB	0.5-25
Selenium	U	U	U	U	2 or SB	0.1-3.9
Silver	U	U	1 B	U	SB	NA
Thallium	U	U	U	U	SB	NA
Zinc	30.9	28.7	35.1	10.1	20 or SB	9-50

QUALIFIERS:
U: Analyzed for but not detected
B: Value less than contract required detection limits but greater than instrument detection limits.

NOTES
*Average backround level in metropolitan or suburban areas or near highways
: Result exceeds cleanup objectives
SB: Site backround
NA: Not Available

TABLE 4-5
GRUMMAN AEROSPACE CORPORATION
CENTRAL AVENUE
SOIL SAMPLING
INORGANIC CONSTITUENTS

SAMPLE ID	CASS-11	CASS-11	CASS-12	CASS-12	NYSDEC RECOMMENDED SOIL CLEANUP OBJECTIVES	EASTERN USA BACKGROUND
SAMPLE DEPTH	0-6 in	9-12 in	0-6 in	9-12 in		
DATE COLLECTED	4/27/94	4/27/94	4/27/94	4/27/94		
UNITS	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)
PARAMETER						
Antimony	U	U	U	U	SB	NA
Arsenic	6.9 B	6.3	4.2 B	5.4	7.5 or SB	3-12
Beryllium	0.82 B	0.7 B	0.71 B	0.64 B	0.16 or SB	0-1.75
Cadmium	U	U	U	U	1.0 or SB	0.1-1
Chromium	6.3	5.5	5	7.0	10 or SB	1.5-40
Copper	7.5	1.5 B	3.2 B	1.2 B	25 or SB	1-50
Lead	70.4	5.5	18.3	3.8	SB	200-500*
Mercury	0.13	U	U	U	0.1	0.001-0.2
Nickel	6.1 B	9.8	6.8 B	10.2	13 or SB	0.5-25
Selenium	U	U	U	U	2 or SB	0.1-3.9
Silver	1.2 B	U	U	U	SB	NA
Thallium	U	U	U	U	SB	NA
Zinc	62.7	20.6	15.7	9.5	20 or SB	9-50

QUALIFIERS:
U: Analyzed for but not detected
B: Value less than contract required detection limits but greater than instrument detection limits.

NOTES
*Average backround level in metropolitan or suburban areas or near highways
: Result exceeds cleanup objectives
SB: Site backround
NA: Not Available

surface and shallow subsurface soils sampled as part of this program are immediately adjacent to the impermeable surface of the runway and, as such, receive a significant volume of storm water runoff. The presence of inorganic constituents in soil samples from these areas is not inconsistent with analytical results obtained by the United States Environmental Protection Agency (USEPA) in similar urban settings in support of its National Urban Runoff Program (NURP). It should also be noted that zinc is utilized as an additive in tires which may be associated with the detected concentrations of zinc due to storm water runoff from areas of the runway which have been utilized for vehicular traffic and aircraft landings/takeoffs. As a result, it appears that the detected concentrations of priority pollutant metals are not atypical of expected background levels.

4.3 Groundwater Sampling

One groundwater sample was collected from each monitoring well and analyzed for volatile organics, fuel-related constituents, glycols and inorganic constituents. As indicated in Tables 4-6 and 4-7, no volatile organics, fuel-related constituents or glycols were detected above the method detection limits.

As indicated on Table 4-8, several inorganic constituents were detected in the groundwater samples obtained from the monitoring wells associated with the site. The only inorganic constituent detected above the NYSDOH drinking water standard was lead in sample USGS-10628. However, it should be noted that this sample could not be obtained at a turbidity of less than 50 NTUs. As a result, an additional filtered groundwater sample was obtained from this location in an effort to remove soil particles prior to laboratory analysis. As indicated above, lead was not detected above the drinking water standard in the filtered sample from USGS well 10628. It should also be noted that USGS well 10628 is located immediately adjacent to an off-site storm water recharge basin. As a result, storm water runoff may cause localized adverse impacts to groundwater quality in the vicinity of this well. Again, the presence of lead is not inconsistent with studies that have been conducted by the United States Environmental Protection Agency in support of its National Urban Runoff Program, indicating that lead, among other metallic and organic constituents, are typically detected in urban storm water runoff.

TABLE 4-6
GRUMMAN AEROSPACE CORPORATION
CENTRAL AVENUE
GROUNDWATER SAMPLING
VOLATILE ORGANICS AND FUEL RELATED CONSTITUENTS

SAMPLE ID	CAMW1	CAMW1	10628	GM19S	NYSDOH
DATE COLLECTED	2/16/94	2/16/94	3/4/94	3/9/94	DRINKING WATER
DILUTION FACTOR	1	1	1	1	STANDARD
VOLATILE ORGANICS (ug/l)					
Chloromethane	U	U	U	U	5
Bromomethane	U	U	U	U	5
Vinyl Chloride	U	U	U	U	2
Chloroethane	U	U	U	U	5
Methylene Chloride	U	U	U	2 JB	5
1,1-Dichloroethene	U	U	U	U	5
1,1-Dichloroethane	U	U	U	U	5
Trans-1,2-Dichloroethene	U	U	U	U	5
Chloroform	U	U	U	U	100**
1,2-Dichloroethane	U	U	U	U	5
1,1,1-Trichloroethane	U	U	U	U	5
Carbon Tetrachloride	U	U	U	U	5
Bromodichloromethane	U	U	U	U	5
1,2-Dichloropropane	U	U	U	U	5
cis-1,3-Dichloropropene	U	U	U	U	5
Trichloroethene	U	U	U	U	5
Dibromochloromethane	U	U	U	U	100**
1,1,2-Trichloroethane	U	U	U	U	5
Benzene	U	U	U	U	5
Trans-1,3-Dichloropropene	U	U	U	U	5
Bromoform	U	U	U	U	100**
Tetrachloroethene	U	U	U	U	5
1,1,2,2-Tetrachloroethane	U	U	U	U	5
Toluene	U	U	U	U	5
Chlorobenzene	U	U	U	U	5
Ethylbenzene	U	U	U	U	5
Acrolein	U	U	U	U	5
Acrylonitrile	U	U	U	U	5
2-Chloroethylvinylether	U	U	U	U	5
Trichlorofluoromethane	U	U	U	U	5
Dichlorobenzene (total)	U	U	U	U	5
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	—
Jet Fuel	U	U	U	U	—
TPH (as Jet Fuel)	U	U	U	U	—

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

NOTES:
**: Applies to the sum of trihalomethanes
—: Not established

TABLE 4-7
GRUMMAN AEROSPACE CORPORATION
CENTRAL AVENUE
GROUNDWATER SAMPLING
GLYCOL SCAN

SAMPLE ID	CAMW1	CAMW2	10628	GM19S
DATE COLLECTED	2/16/94	2/7/94	3/4/94	3/9/94
Propylene Glycol	U	U	U	U
Ethylene Gylcol	U	U	U	U

QUALIFIERS:
U: Analyzed for but not detected

TABLE 4-8
GRUMMAN AEROSPACE CORPORATION
CENTRAL AVENUE
GROUNDWATER SAMPLING
INORGANIC CONSTITUENTS

SAMPLE ID	CAMW1	CAMW1F	CAMW2	CAMW2F	10628	10628F	GM19S	NYSDOH DRINKING WATER STANDARDS
DATE COLLECTED	3/4/94	3/4/94	3/4/94	3/4/94	3/4/94	3/4/94	3/9/94	
UNITS	(ug/l)	(ug/l)	(ug/l)	(ug/l)	(ug/l)	(ug/l)	(ug/l)	(ug/l)
PARAMETER								
Antimony	U	U	U	U	U	U	U	---
Arsenic	U	U	U	U	U	U	U	50
Beryllium	U	1.5 B	2.5 B	U	U	U	U	---
Cadmium	U	U	U	U	U	U	U	5
Chromium	12.5	U	73.8	11.2 U	37.4	U	U	100
Copper	U	U	55.4	U	83	15.7 B	U	1000
Lead	U	U	22.4	U	296	34.4	U	50
Mercury	U	U	U	U	0.63	U	U	2
Nickel	U	U	U	U	U	U	U	---
Selenium	U	U	U	U	U	U	U	10
Silver	U	U	U	U	U	U	U	50
Thallium	U	U	U	U	U	U	U	---
Zinc	10.7 B	U	167	13.5 B	252	47.8	10.7 B	5000

QUALIFIERS:
U: Analyzed for but not detected
B: Value less than contract required detection limits but greater than instrument detection limits.

NOTES:
F: Filtered sample
---: Not established
:Value exceeds standard

4.4 Conclusions

Based on the site history, visual inspection performed on February 1, 1994, and a review of local agency and Grumman files, it does not appear that on-site operations have resulted in any chemical and/or fuel spills on-site. According to interviews with Grumman personnel and a review of local agency files and Grumman records, there is no apparent evidence of the past or present existence of any on-site storage tanks or leaching pools, other than those associated with storm water drainage.

With regard to groundwater sampling results, none of the analytical constituents were detected above the referenced standards/guidelines other than those which were attributable to elevated turbidity. With regard to soil sampling results, other than inorganic constituents which were detected in surface and shallow subsurface soils adjacent to the runway, none of the analytical constituents were detected above the referenced cleanup objectives. Furthermore, it has been shown that the majority of the inorganic constituents were detected at concentrations below the published typical "eastern U.S. background" levels, as defined by the New York State Department of Environmental Conservation (NYSDEC) Technical and Administrative Guidance Memorandum (TAGM) No. 4046. It is also important to note that the surface and shallow subsurface soils sampled as part of this program are immediately adjacent to the impermeable surface of the runway and, as such, receive a significant volume of storm water runoff. The presence of inorganic constituents in soil samples from these areas is not inconsistent with analytical results obtained by the United States Environmental Protection Agency (USEPA) in similar urban settings in support of its National Urban Runoff Program (NURP).

As a result, based upon the above-referenced findings, we believe that the information presented in this document is sufficient to support the delisting of the site under New York State regulations and, as such, an appropriate modification to the boundaries of Site 1-30-003A is warranted.

Section 5

5.0 REFERENCES

Dvirka and Bartilucci Consulting Engineers; "Sterling Center - Draft Generic Environmental Impact Statement - Volume 1A;" June 1990.

EBASCO, Final Work Plan RI/FS Hooker Chemical/Ruco Polymer Superfund Site, EPA Contract 68-01-7250, Work Assignment No. 186-2443, September 1988.

Haliburton NUS Environmental Corporation; "Final Remedial Investigation Report Naval Weapons Industrial Reserve Plant Bethpage, New York;" May 1992.

Legette, Brashear & Graham, Final Field Operations Plan, August 1989.

Legette, Brashear & Graham, Focused Feasibility Study for Remediation of Soils Containing Arochlor 1248 for Occidental Chemical Corp., June 1990.

LKB Aerial Photographs: April 11, 1950; January 20, 1955; January 24, 1957; March 23, 1962; April 11, 1969; April 18, 1972; March 8, 1988.

United States Department of Agriculture, Soil Conservation Service, Soil Survey of Nassau County, New York, February 1987.

USEPA, Declaration for Record of Decision, Hooker Chemical/Ruco Polymer Site, Hicksville, Nassau County, New York, September 1990.

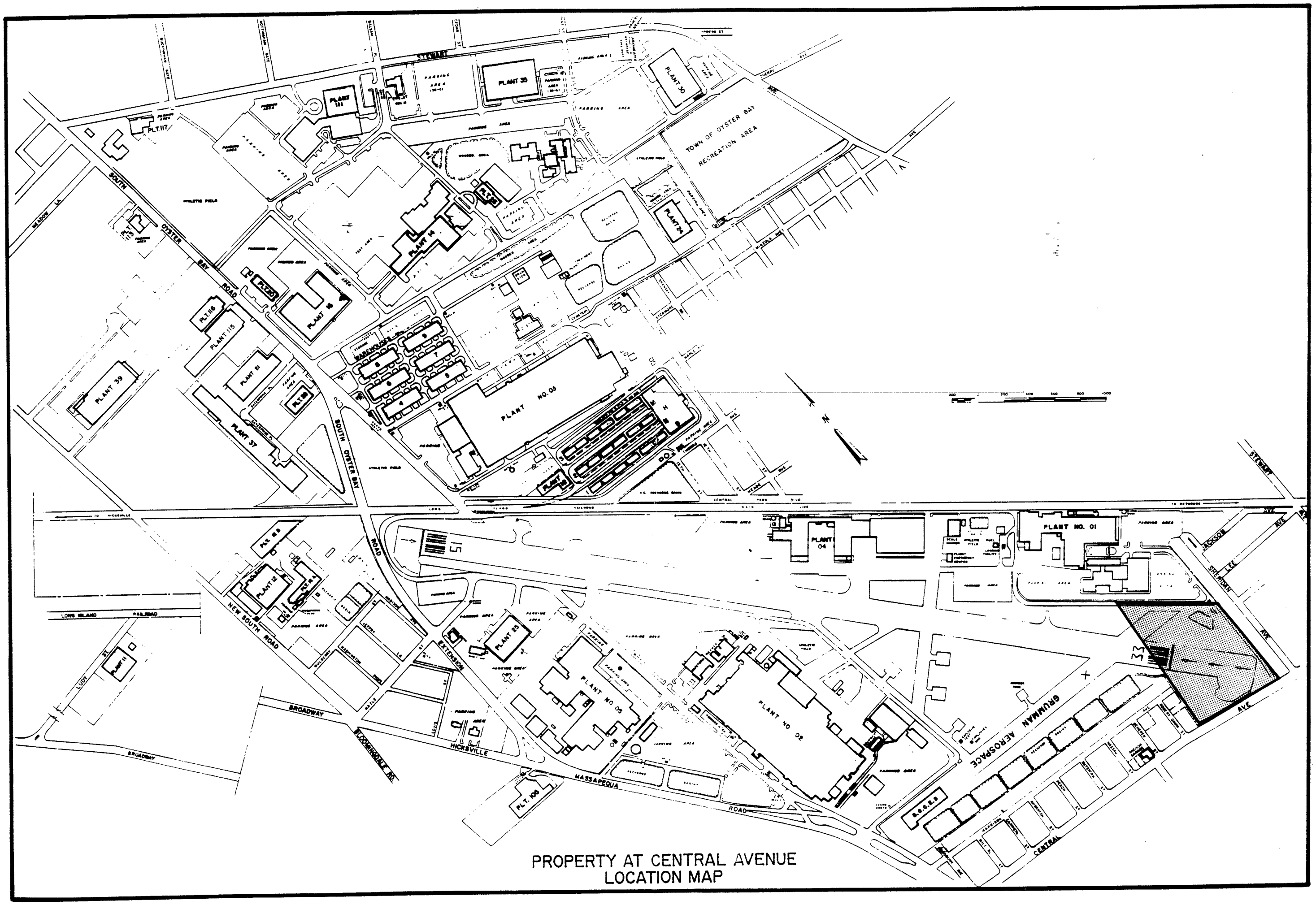
USEPA - Region 2, Proposed Plan Superfund Update Hooker Chemical/Ruco Polymer Site, Hicksville, New York, July 1990.

USEPA - Results of the Nationwide Urban Runoff Program, December 1983.

Appendix A

APPENDIX A

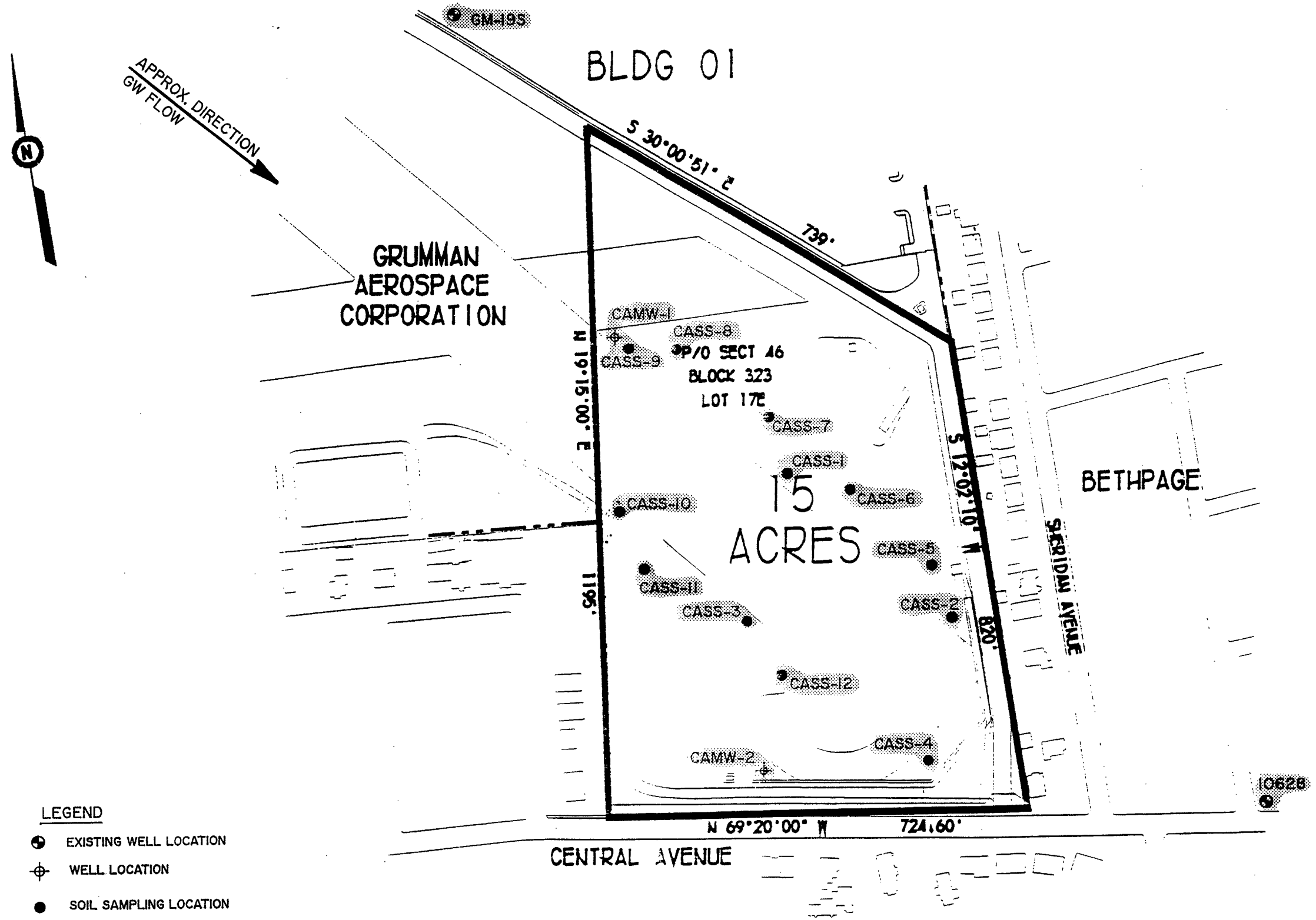
LOCATION MAP



Appendix B

APPENDIX B

SITE PLAN



GRUMMAN AEROSPACE CORPORATION
BETHPAGE FACILITY
PROPERTY AT CENTRAL AVENUE

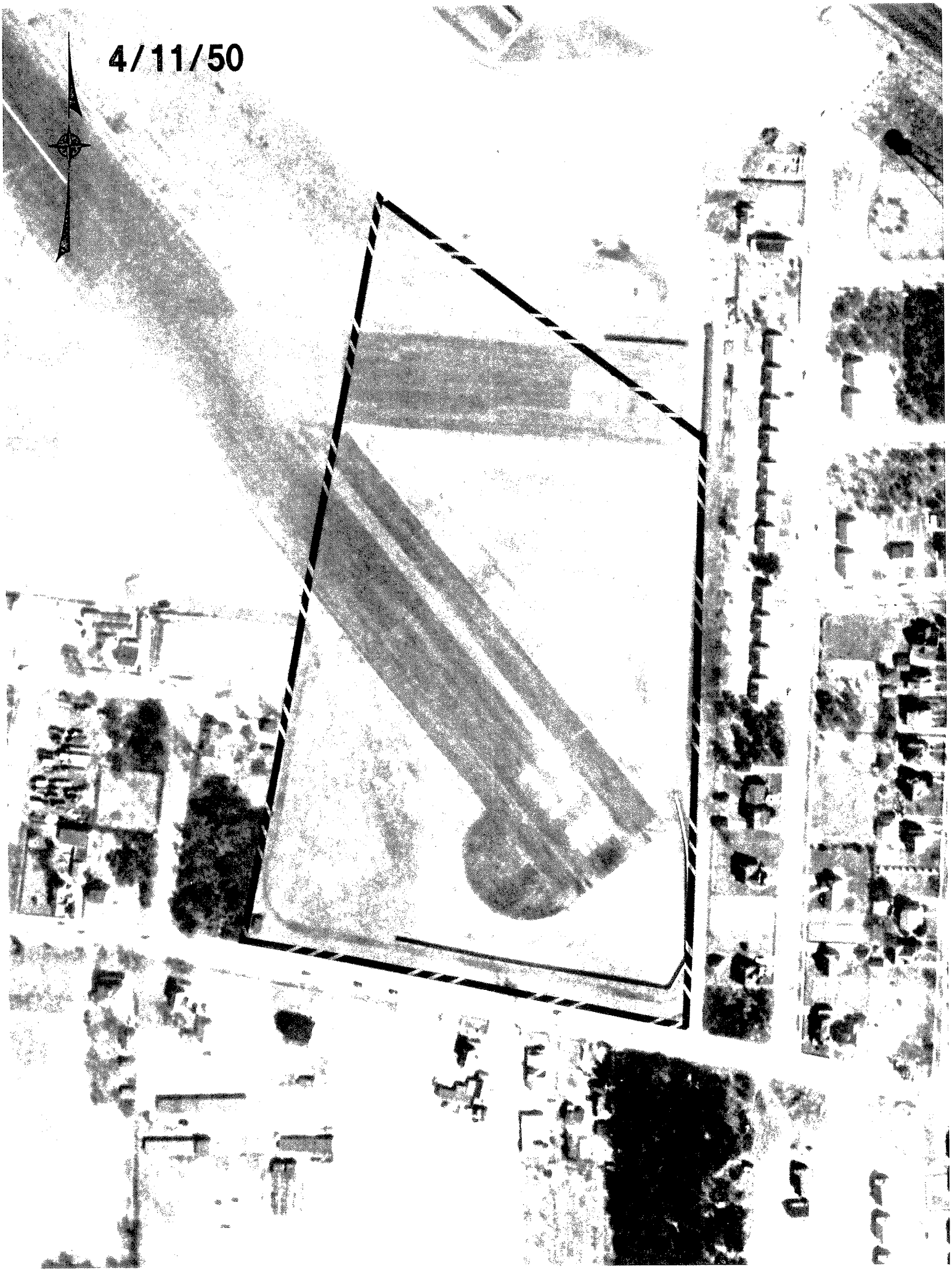
SITE PLAN

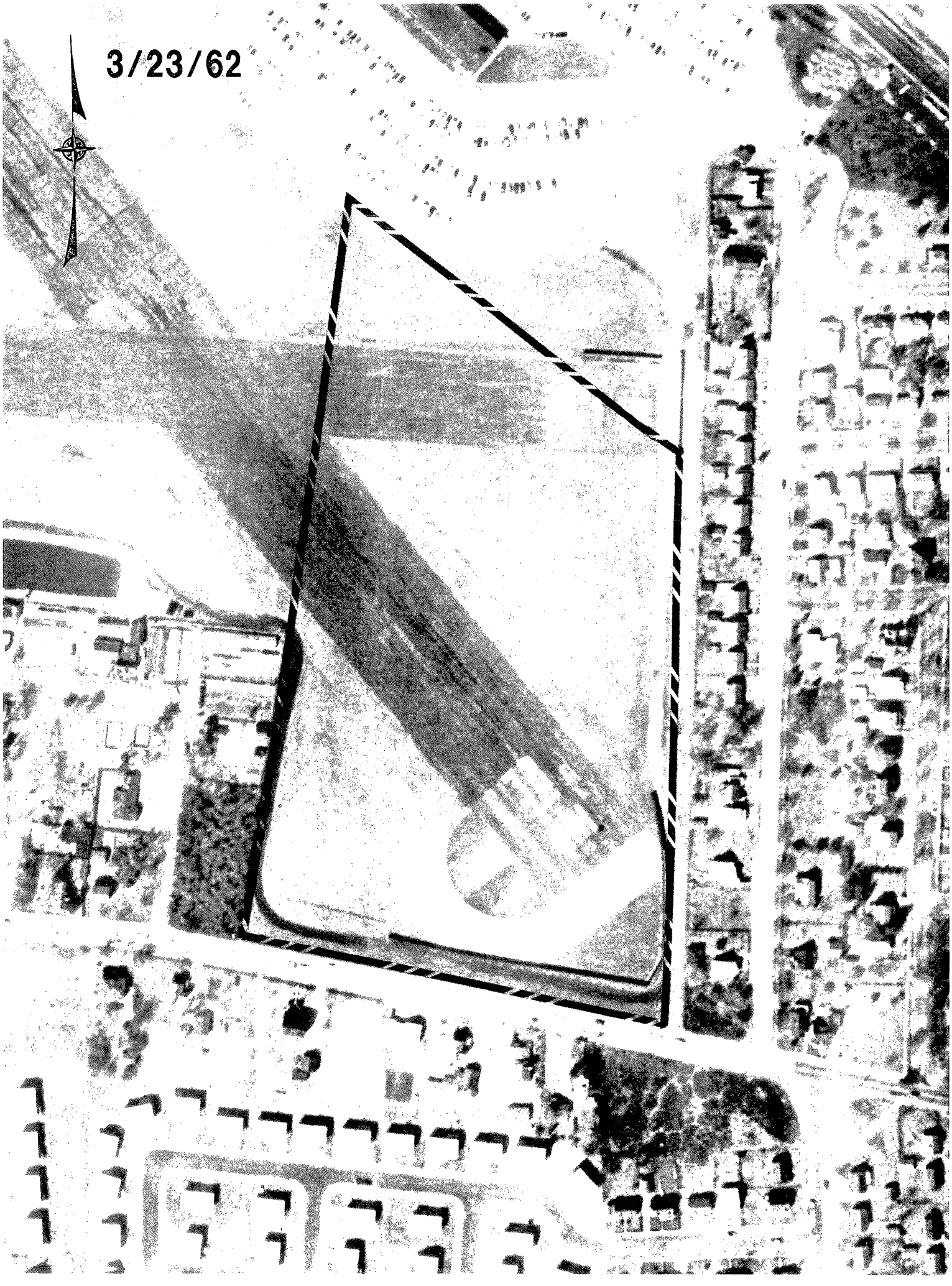
Dvirka and Bartilucci CONSULTING ENGINEERS

Appendix C

APPENDIX C

AERIAL PHOTOGRAPHS (1950-1988)





3/24/76

NGINS000120398

Appendix D

APPENDIX D

BORING LOGS

BORING LOG

DVIRKA AND BARTILUCCI

Project No.: 1167-L
Project Name: GRUMMAN

Well/Boring No: CA-MW-1
Sheet 1 of 3
By: KSR Date: 2/16/94
Chk'd: _____ Date: _____

Drilling Contractor: John Emmington
Driller: Scot
Drill Rig: CME 75
Sample Spoon I.D.: 2 inch
Date Started: 2/16/94
Geologist: Keith Robins
Drilling Method: Hollow stem Auger
Drive Hammer Wt.: 140 lbs
Date Completed: 2/16/94

Borehole Completion Depth: 60'
Borehole Diameter: 8 inch
Ground Surface El.: NA

DEPTH (FT.)	SAMPLE NO.	SAMPLING INTERVAL	RECOVERY/ RQD	BLOWS/6"	HEADSPACE (PPM)	SAMPLE DESCRIPTION
-0-					OVA	
-1-	1	0-2'	18"	3,8, 6,4	0	(0-6") Dark brown silty sand (6"-18") Brown medium-fine(+) coarse, Sand, little gravel (damp)
-2-	2	2'-4'	24"	7,6, 3,3	0	(0-6") Brown medium-coarse Qtz Sand, little gravel, trace silt. (damp) (6"-18") - same as (0-2')/(6"-18")
-4-						
-5-	3	4'-6'	18"	5,5, 5,5	0	(4'-6') Brown medium-coarse Sand, trace-little silt, little fine gravel (damp)
-6-						
-7-	4	6'-8'	20"	9,14, 15,17	0	(6'-8') Brown-Tan fine-medium(+)-coarse Qtz Sand, little sub-angular gravel, trace silt. (damp)
-8-						
-9-	5	8'-10'	24"	9,13, 13,13	0	(8'-10') Brown-Tan fine-medium-coarse Sand, trace gravel, trace iron staining. (damp)
-10						

Remarks: Soil sample selected at (6'-8') for laboratory analysis.

Water Level Measurement 46' Date 2/17/94
_____ Date _____
_____ Date _____
_____ Date _____

BL

BORING LOG

DVIRKA AND BARTILUCCI

Project No.: 1167-L
Project Name: GRUMMAN

Well/Boring No.: CA-mw-1
Sheet 2 of 3
By: KSR Date: 2/16/94
Chk'd: _____ Date: _____

Drilling Contractor: John Emington
Driller: Scot
Drill Rig: CME 75
Sample Spoon I.D.: 2inch
Date Started: 2/16/94

Geologist: Keith Robins
Drilling Method: Hollow Stem Augers
Drive Hammer Wt.: 140 lbs
Date Completed: 2/16/94

Borehole Completion Depth: 60'
Borehole Diameter: 7inch
Ground Surface El.: NA

DEPTH (FT.)	SAMPLE NO.	SAMPLING INTERVAL	RECOVERY/ RQD	BLOWS/6"	HEADSPACE (PPM)	SAMPLE DESCRIPTION
10					OVA	
12						
14	6	15-17'	6"	11,12 15,17	0	(15'-17') Brown medium-coarse Qtz Sand, some coarse gravel, trace silt. (damp)
16						
18						
20	7	20'-22'	12"	5,5, 7,16	0	(20'-22') Tan fine-medium(+)-coarse Sand, little subrounded-subangular gravel, trace silt (damp)
22						
24						
26	8	25'-27'	24"	7,8, 13,13	0	(25'-27') Brown-LT Brown medium-coarse Qtz Sand, some(+) angular gravel, trace iron, trace silt, and biotite mica. (damp)
28						
30						

Remarks: Changed vertical scale to every 2 Ft

Water Level Measurement 46' Date 2/17/94
_____ Date _____
_____ Date _____
_____ Date _____

BL

BORING LOG

DVIRKA AND BARTILUCCI

Project No.: 1167-L
Project Name: GRUMMAN

Well/Boring No.: CA-MW-1
Sheet 3 of 3
By: KSR Date: 2/16/94
Chk'd: _____ Date: _____

Drilling Contractor: John Emmington
Driller: Scot
Drill Rig: CME 75
Sample Spoon I.D.: 2 inch
Date Started: 2/16/94
Geologist: Keith Robins
Drilling Method: Hollow Stem Augers
Drive Hammer Wt.: 140 lbs.
Date Completed: 2/16/94

Borehole Completion Depth: 60'
Borehole Diameter: 7"
Ground Surface El.: NA

DEPTH (FT.)	SAMPLE NO.	SAMPLING INTERVAL	RECOVERY/ RQD	BLOWS/6"	HEADSPACE (PPM)	SAMPLE DESCRIPTION
30					O/A	
32	9	30'-32'	18"	7,6, 5,8	0	(30'-32') LT Tan-Brown, medium-coarse Sand, trace fine gravel with horizontal banning of dark brown sand, trace iron staining. (damp)
34						
36	10	35'-37'	18"	4,3, 13,13	0	(35'-37') LT Tan-LT white medium-fine Qtz Sand, trace subrounded gravel (damp)
38						
40						
42	11	40'-42'	18"	4,10 20,13	0	(40'-42') (0-6") LT Brown m-f Sand (6"-15") Brown m-c Sand some angular gravel, some iron. (15"-18") Brown fine Sand (wet) At tip of split spoon
44						
46	12	45'-47'	18"	3,3, 3,3	0	(45'-47') (0-12") Brown fine sand, little gravel (damp-wet) (12"-18") Brown clayey Silt, compact and damp.
48						
50	13	50'-52'	24"	3,3, 5,18	0	(50'-52') (0-18") Brown Silt (18"-24") Brown Course Sand and gravel
						END OF BORING AT 60 FT

Remarks: Changed vertical scale to 2 FT

Water Level Measurement 46' Date 2/17/94
_____ Date _____
_____ Date _____
_____ Date _____

BL

BORING LOG

DVIRKA AND BARTILUCCI

Project No.: 1167-L
Project Name: GRUMMAN

Well/Boring No.: CA-MW-2
Sheet 1 of 3
By: ICSR Date: 2/7/94
Chk'd: _____ Date: _____

Drilling Contractor: John Emington
Driller: Scot Geologist: Keith Robins
Drill Rig: CME 75 Drilling Method: Hollow Stem Auger
Sample Spoon I.D.: 2 inch Drive Hammer Wt.: 140 lbs
Date Started: 2/7/94 Date Completed: 2/8/94

Borehole Completion Depth: 57 FT
Borehole Diameter: 7"
Ground Surface El.: NA

DEPTH (FT.)	SAMPLE NO.	SAMPLING INTERVAL	RECOVERY/ RQD	BLOWS/6"	HEADSPACE (PPM)	SAMPLE DESCRIPTION
-0-					OVA	(0-6") Dark brown - black fine Sand
-1-	1	0-2	24"	20,28, 26,15	0	(6"-24") Brown - Orange medium-coarse Sand, little gravel, trace silt. (dry)
-2-						
-3-	2	2-4	24"	2,4, 5,5	0	(2'-4') Brown - Orange medium - coarse sand, little gravel trace silt (dry)
-4-						
-5-	3	4-6	18"	3,3, 3,4	0	(4'-6') Brown silty sand, trace fine gravel (damp)
-6-						
-7-	4	6-8	18"	6,8, 10,7	0	(0-10") Brown - Orange medium-coarse sand, little gravel. (10"-18") Gray silt, compact (dry)
-8-						
-9-	5	8-10	18"	12,12 19,27	0	(8'-10') Brown - Orange medium - coarse Sand little fine to medium gravel trace silt. (dry-damp)
-10						

Remarks: Soil sample collected for laboratory analysis at (4'-6') below grade VOCs, PCBs, Feul, TPHC

Water Level Measurement 44.65' Date 2/7/94
_____ Date _____
_____ Date _____
_____ Date _____

BL

BORING LOG

DVIRKA AND BARTILUCCI

Project No.: 1167-L
Project Name: GRUMMAN

Well/Boring No.: CA-MW-2
Sheet 2 of 3
By: KSR Date: 2/7/94
Chk'd: _____ Date: _____

Drilling Contractor: John Emington
Driller: Scot
Drill Rig: CME-75
Sample Spoon I.D.: 2 inch
Date Started: 2/7/94
Geologist: O Keith Robins
Drilling Method: Hollow Stem Auger
Drive Hammer Wt.: 140 lbs
Date Completed: 2/8/94

Borehole Completion Depth: 57 FT
Borehole Diameter: 9"
Ground Surface El.: NA

DEPTH (FT.)	SAMPLE NO.	SAMPLING INTERVAL	RECOVERY/ RQD	BLOWS/6"	HEADSPACE (PPM)	SAMPLE DESCRIPTION
10					OVA	
12						
14	6	15-17	24"	6,5, 7,12	0	(15'-17') Brown-Tan Course Sand, some subrounded gravel, trace silt. (dry)
16						
18						
20	7	20-22	18"	4,6 10,10	0	(20'-22') Light Brown-Tan, medium-Coarse Qtz Sand, some gravel (dry)
22						
24						
26	8	25-27	18"	4,5 7,10	0	(25'-27') Light Brown-Tan, medium-Coarse Sand, little gravel trace silt. (dry)
28						
30						

Remarks: Changed vertical scale depth (FT) to every 2 FT.

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

BL

BORING LOG

DVIRKA AND BARTILUCCI

Project No.: 1167-L
Project Name: GRUMMAN

Well/Boring No.: CA-MW-2
Sheet 3 of 3
By: 3KSR Date: 2/7/94
Chk'd: _____ Date: _____

Drilling Contractor: John Emington
Driller: Scott
Drill Rig: CME 75
Sample Spoon I.D.: 2 inch
Date Started: 2/7/94

Geologist: Keith Robins
Drilling Method: Hollow Stem Auger
Drive Hammer Wt.: 140 lbs.
Date Completed: 2/8/94

Borehole Completion Depth: 57 FT
Borehole Diameter: 7"
Ground Surface El.: NA

DEPTH (FT.)	SAMPLE NO.	SAMPLING INTERVAL	RECOVERY/ RQD	BLOWS/6"	HEADSPACE (PPM)	SAMPLE DESCRIPTION
30					OVA	
32	9	30-32	24"	5,11, 17,13	0	(30'-32') Light Brown-Tan, medium to fine Sand, trace fine gravel trace silt. (dry)
34	10	35-37	24"	3,5 4,5	0	(35'-37') Light Tan, medium(+) fine Qtz Sand, little gravel, trace silt. (damp)
36						
38						
40	11	40-42	24"	3,2, 3,3	0	(40'-42') Tan – Light brown medium Sand, trace fine gravel, trace silt.
42						
44	12	45-47	24"	5,4, 7,10	0	(45'-47') Brown, medium Sand and little subangular gravel, trace silt.
46						
48						
50						
57						END OF Boring at 57.0 FT

Remarks: Changed vertical scale depth (FT) to every 2 FT.

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

BL

Appendix E

APPENDIX E

LABORATORY DATA

1A-GC

NYTEST ENVIRONMENTAL INC.

VOLATILE ORGANICS ANALYSIS DATA SHEET

SAMPLE MATRIX: SOIL
CONC. LEVEL: LOW
ANALYSIS DATE: 2/22/94

SAMPLE ID: CA-MW1 6-8
LAB ID: 1983501
DIL FACTOR: 1.00
% MOISTURE: 2

CMPD #	CAS Number	VOLATILE COMPOUNDS	UG/KG (DRY BASIS)
1	74-87-3	Chloromethane	1.0 U.
2	74-83-9	Bromomethane	1.0 U.
3	75-01-4	Vinyl Chloride	1.0 U.
4	75-00-3	Chloroethane	1.0 U.
5	75-09-2	Methylene Chloride	1.0 U.
6	75-35-4	1,1-Dichloroethene	1.0 U.
7	75-34-3	1,1-Dichloroethane	1.0 U.
8	156-60-5	1,2-Dichloroethene (trans)	1.0 U.
9	67-66-3	Chloroform	1.0 U.
10	107-06-2	1,2-Dichloroethane	1.0 U.
11	71-55-6	1,1,1-Trichloroethane	1.0 U.
12	56-23-5	Carbon Tetrachloride	1.0 U.
13	75-27-4	Bromodichloromethane	1.0 U.
14	78-87-5	1,2-Dichloropropane	1.0 U.
15	10061-01-5	cis-1,3-Dichloropropene	1.0 U.
16	79-01-6	Trichloroethene	1.0 U.
17	124-48-1	Dibromochloromethane	1.0 U.
18	79-00-5	1,1,2-Trichloroethane	1.0 U.
19	71-43-2	Benzene	1.0 U.
20	10061-02-6	Trans-1,3-Dichloropropene	1.0 U.
21	127-18-4	Tetrachloroethene	1.0 U.
22	79-34-5	1,1,2,2-Tetrachloroethane	1.0 U.
23	108-88-3	Toluene	1.0 U.
24	108-90-7	Chlorobenzene	1.0 U.
25	100-41-4	Ethylbenzene	1.0 U.
26	1330-20-7	Xylene (total)	1.0 U.
27	110-75-8	2-Chloroethylvinylether	1.0 U.
28	75-71-8	Dichlorodifluoromethane	1.0 U.
29	75-69-4	Trichlorofluoromethane	1.0 U.
30	95-50-1	1,2-Dichlorobenzene	1.0 U.
31	541-73-1	1,3-Dichlorobenzene	1.0 U.
32	106-46-7	1,4-Dichlorobenzene	1.0 U.
33	75-25-2	Bromoform	1.0 U.

0000036

1A-GC

NYTEST ENVIRONMENTAL INC.

VOLATILE ORGANICS ANALYSIS DATA SHEET

SAMPLE MATRIX: SOIL — SAMPLE ID: CA-MW2 4-6

CONC. LEVEL: LOW — LAB ID: 1976401

ANALYSIS DATE: 2/10/94 — DIL FACTOR: 1.00

% MOISTURE: 8

CMPD #	CAS Number	VOLATILE COMPOUNDS	UG/KG (DRY BASIS)
1	74-87-3	Chloromethane	1.0 U.
2	74-83-9	Bromomethane	1.0 U.
3	75-01-4	Vinyl Chloride	1.0 U.
4	75-00-3	Chloroethane	1.0 U.
5	75-09-2	Methylene Chloride	1.0 U.
6	75-35-4	1,1-Dichloroethene	1.0 U.
7	75-34-3	1,1-Dichloroethane	1.0 U.
8	156-60-5	1,2-Dichloroethene (trans)	1.0 U.
9	67-66-3	Chloroform	1.0 U.
10	107-06-2	1,2-Dichloroethane	1.0 U.
11	71-55-6	1,1,1-Trichloroethane	1.0 U.
12	56-23-5	Carbon Tetrachloride	1.0 U.
13	75-27-4	Bromodichloromethane	1.0 U.
14	78-87-5	1,2-Dichloropropane	1.0 U.
15	10061-01-5	cis-1,3-Dichloropropene	1.0 U.
16	79-01-6	Trichloroethene	1.0 U.
17	124-48-1	Dibromochloromethane	1.0 U.
18	79-00-5	1,1,2-Trichloroethane	1.0 U.
19	71-43-2	Benzene	1.0 U.
20	10061-02-6	Trans-1,3-Dichloropropene	1.0 U.
21	127-18-4	Tetrachloroethene	1.0 U.
22	79-34-5	1,1,2,2-Tetrachloroethane	1.0 U.
23	108-88-3	Toluene	1.0 U.
24	108-90-7	Chlorobenzene	1.0 U.
25	100-41-4	Ethylbenzene	1.0 U.
26	1330-20-7	Xylene (total)	1.0 U.
27	110-75-8	2-Chloroethylvinylether	1.0 U.
28	75-71-8	Dichlorodifluoromethane	1.0 U.
29	75-69-4	Trichlorofluoromethane	1.0 U.
30	95-50-1	1,2-Dichlorobenzene	1.0 U.
31	541-73-1	1,3-Dichlorobenzene	1.0 U.
32	106-46-7	1,4-Dichlorobenzene	1.0 U.
33	75-25-2	Bromoform	1.0 U.

1A-GC

NYTEST ENVIRONMENTAL INC.

VOLATILE ORGANICS ANALYSIS DATA SHEET

SAMPLE MATRIX:	SOIL	SAMPLE ID:	CA-SS-1
CONC. LEVEL:	LOW	LAB ID:	2012801
ANALYSIS DATE:	3/25/94	DIL FACTOR:	1.00
		% MOISTURE:	28

CMPD #	CAS Number	VOLATILE COMPOUNDS	UG/KG (DRY BASIS)
1	74-87-3	Chloromethane	1.4 U.
2	74-83-9	Bromomethane	1.4 U.
3	75-01-4	Vinyl Chloride	1.4 U.
4	75-00-3	Chloroethane	1.4 U.
5	75-09-2	Methylene Chloride	1.4 U.
6	75-35-4	1,1-Dichloroethene	1.4 U.
7	75-34-3	1,1-Dichloroethane	1.4 U.
8	156-60-5	1,2-Dichloroethene (trans)	1.4 U.
9	67-66-3	Chloroform	1.4 U.
10	107-06-2	1,2-Dichloroethane	1.4 U.
11	71-55-6	1,1,1-Trichloroethane	1.4 U.
12	56-23-5	Carbon Tetrachloride	1.4 U.
13	75-27-4	Bromodichloromethane	1.4 U.
14	78-87-5	1,2-Dichloropropane	1.4 U.
15	10061-01-5	cis-1,3-Dichloropropene	1.4 U.
16	79-01-6	Trichloroethene	1.4 U.
17	124-48-1	Dibromochloromethane	1.4 U.
18	79-00-5	1,1,2-Trichloroethane	1.4 U.
19	71-43-2	Benzene	1.4 U.
20	10061-02-6	Trans-1,3-Dichloropropene	1.4 U.
21	127-18-4	Tetrachloroethene	1.4 U.
22	79-34-5	1,1,2,2-Tetrachloroethane	1.4 U.
23	108-88-3	Toluene	0.8 J.
24	108-90-7	Chlorobenzene	1.4 U.
25	100-41-4	Ethylbenzene	1.4 U.
26	1330-20-7	Xylene (total)	1.4 U.
27	110-75-8	2-Chloroethylvinylether	1.4 U.
28	75-71-8	Dichlorodifluoromethane	1.4 U.
29	75-69-4	Trichlorofluoromethane	1.4 U.
30	95-50-1	1,2-Dichlorobenzene	1.4 U.
31	541-73-1	1,3-Dichlorobenzene	1.4 U.
32	106-46-7	1,4-Dichlorobenzene	1.4 U.
33	75-25-2	Bromoform	1.4 U.

0000011

1A-GC

NYTEST ENVIRONMENTAL INC.

VOLATILE ORGANICS ANALYSIS DATA SHEET

SAMPLE MATRIX:	SOIL	SAMPLE ID:	CA-SS-2
CONC. LEVEL:	LOW	LAB ID:	2012802
ANALYSIS DATE:	3/25/94	DIL FACTOR:	1.00
		% MOISTURE:	21

CMPD #	CAS Number	VOLATILE COMPOUNDS	UG/KG (DRY BASIS)
1	74-87-3	Chloromethane	1.3 U.
2	74-83-9	Bromomethane	1.3 U.
3	75-01-4	Vinyl Chloride	1.3 U.
4	75-00-3	Chloroethane	1.3 U.
5	75-09-2	Methylene Chloride	8.9 B.
6	75-35-4	1,1-Dichloroethene	1.3 U.
7	75-34-3	1,1-Dichloroethane	1.3 U.
8	156-60-5	1,2-Dichloroethene (trans)	1.3 U.
9	67-66-3	Chloroform	1.3 U.
10	107-06-2	1,2-Dichloroethane	1.3 U.
11	71-55-6	1,1,1-Trichloroethane	1.3 U.
12	56-23-5	Carbon Tetrachloride	1.3 U.
13	75-27-4	Bromodichloromethane	1.3 U.
14	78-87-5	1,2-Dichloropropane	1.3 U.
15	10061-01-5	cis-1,3-Dichloropropene	1.3 U.
16	79-01-6	Trichloroethene	1.3 U.
17	124-48-1	Dibromochloromethane	1.3 U.
18	79-00-5	1,1,2-Trichloroethane	1.3 U.
19	71-43-2	Benzene	1.3 U.
20	10061-02-6	Trans-1,3-Dichloropropene	1.3 U.
21	127-18-4	Tetrachloroethene	1.3 U.
22	79-34-5	1,1,2,2-Tetrachloroethane	1.3 U.
23	108-88-3	Toluene	1.5
24	108-90-7	Chlorobenzene	1.3 U.
25	100-41-4	Ethylbenzene	1.3 U.
26	1330-20-7	Xylene (total)	1.3 U.
27	110-75-8	2-Chloroethylvinylether	1.3 U.
28	75-71-8	Dichlorodifluoromethane	1.3 U.
29	75-69-4	Trichlorofluoromethane	1.3 U.
30	95-50-1	1,2-Dichlorobenzene	1.3 U.
31	541-73-1	1,3-Dichlorobenzene	1.3 U.
32	106-46-7	1,4-Dichlorobenzene	1.3 U.
33	75-25-2	Bromoform	1.3 U.

0000012

1A-GC

NYTEST ENVIRONMENTAL INC.

VOLATILE ORGANICS ANALYSIS DATA SHEET

SAMPLE MATRIX: SOIL | SAMPLE ID: CA-SS-3

CONC. LEVEL: LOW | LAB ID: 2012803

ANALYSIS DATE: 3/25/94 | DIL FACTOR: 1.00

% MOISTURE: 18

CMPD #	CAS Number	VOLATILE COMPOUNDS	UG/KG (DRY BASIS)
1	74-87-3	Chloromethane	1.2 U.
2	74-83-9	Bromomethane	1.2 U.
3	75-01-4	Vinyl Chloride	1.2 U.
4	75-00-3	Chloroethane	1.2 U.
5	75-09-2	Methylene Chloride	14.0 B.
6	75-35-4	1,1-Dichloroethene	1.2 U.
7	75-34-3	1,1-Dichloroethane	1.2 U.
8	156-60-5	1,2-Dichloroethene (trans)	1.2 U.
9	67-66-3	Chloroform	1.2 U.
10	107-06-2	1,2-Dichloroethane	1.2 U.
11	71-55-6	1,1,1-Trichloroethane	1.2 U.
12	56-23-5	Carbon Tetrachloride	1.2 U.
13	75-27-4	Bromodichloromethane	1.2 U.
14	78-87-5	1,2-Dichloropropane	1.2 U.
15	10061-01-5	cis-1,3-Dichloropropene	1.2 U.
16	79-01-6	Trichloroethene	1.2 U.
17	124-48-1	Dibromochloromethane	1.2 U.
18	79-00-5	1,1,2-Trichloroethane	1.2 U.
19	71-43-2	Benzene	1.2 U.
20	10061-02-6	Trans-1,3-Dichloropropene	1.2 U.
21	127-18-4	Tetrachloroethene	1.2 U.
22	79-34-5	1,1,2,2-Tetrachloroethane	1.2 U.
23	108-88-3	Toluene	1.4
24	108-90-7	Chlorobenzene	1.2 U.
25	100-41-4	Ethylbenzene	1.2 U.
26	1330-20-7	Xylene (total)	1.2 U.
27	110-75-8	2-Chloroethylvinylether	1.2 U.
28	75-71-8	Dichlorodifluoromethane	1.2 U.
29	75-69-4	Trichlorofluoromethane	1.2 U.
30	95-50-1	1,2-Dichlorobenzene	1.2 U.
31	541-73-1	1,3-Dichlorobenzene	1.2 U.
32	106-46-7	1,4-Dichlorobenzene	1.2 U.
33	75-25-2	Bromoform	1.2 U.

1A-GC

NITEST ENVIRONMENTAL INC.

VOLATILE ORGANICS ANALYSIS DATA SHEET

SAMPLE MATRIX:	SOIL	SAMPLE ID:	CA-SS-4
CONC. LEVEL:	LOW	LAB ID:	2012804
ANALYSIS DATE:	3/25/94	DIL FACTOR:	1.00
		% MOISTURE:	20

CMPD #	CAS Number	VOLATILE COMPOUNDS	UG/KG (DRY BASIS)
1	74-87-3	Chloromethane	1.3 U.
2	74-83-9	Bromomethane	1.3 U.
3	75-01-4	Vinyl Chloride	1.3 U.
4	75-00-3	Chloroethane	1.3 U.
5	75-09-2	Methylene Chloride	1.3 U.
6	75-35-4	1,1-Dichloroethene	1.3 U.
7	75-34-3	1,1-Dichloroethane	1.3 U.
8	156-60-5	1,2-Dichloroethene (trans)	1.3 U.
9	67-66-3	Chloroform	1.3 U.
10	107-06-2	1,2-Dichloroethane	1.3 U.
11	71-55-6	1,1,1-Trichloroethane	1.3 U.
12	56-23-5	Carbon Tetrachloride	1.3 U.
13	75-27-4	Bromodichloromethane	1.3 U.
14	78-87-5	1,2-Dichloropropane	1.3 U.
15	10061-01-5	cis-1,3-Dichloropropene	1.3 U.
16	79-01-6	Trichloroethene	1.3 U.
17	124-48-1	Dibromochloromethane	1.3 U.
18	79-00-5	1,1,2-Trichloroethane	1.3 U.
19	71-43-2	Benzene	1.3 U.
20	10061-02-6	Trans-1,3-Dichloropropene	1.3 U.
21	127-18-4	Tetrachloroethene	1.3 U.
22	79-34-5	1,1,2,2-Tetrachloroethane	1.3 U.
23	108-88-3	Toluene	1.3 U.
24	108-90-7	Chlorobenzene	1.3 U.
25	100-41-4	Ethylbenzene	1.3 U.
26	1330-20-7	Xylene (total)	1.3 U.
27	110-75-8	2-Chloroethylvinylether	1.3 U.
28	75-71-8	Dichlorodifluoromethane	1.3 U.
29	75-69-4	Trichlorofluoromethane	1.3 U.
30	95-50-1	1,2-Dichlorobenzene	1.3 U.
31	541-73-1	1,3-Dichlorobenzene	1.3 U.
32	106-46-7	1,4-Dichlorobenzene	1.3 U.
33	75-25-2	Bromoform	1.3 U.

0000014

REPORT OF ANALYSIS

Log In No.: 19835

We find as follows:

Results in ppm:

Sample Identification		Parameter(s)	
		Propylene Glycol	Ethylene Glycol
1983501	CA-MW1 6-8	<10.0	<10.0

0000296

REPORT OF ANALYSIS

Log In No.: 19764

We find as follows:

Results in ppm:

Sample Identification		Parameter(s)	
		Propylene Glycol	Ethylene Glycol
1976401	CA-MW2 4-6	<11.0	<11.0

0000328

REPORT OF ANALYSIS

Log In No.: 20128

We find as follows:

Results in ppm:

Sample Identification		Parameter(s)	
		Ethylene Glycol	Propylene Glycol
CA-SS-1	2012801	<14.0	<14.0
CA-SS-2	2012802	<13.0	<13.0
CA-SS-3	2012803	<12.0	<12.0
CA-SS-4	2012804	<12.0	<12.0

0000016

NYTEST ENVIRONMENTAL, inc.

REPORT OF ANALYSIS

Log In No.: 19835

We find as follows:

Results in mg/kg (dry weight basis) :

Sample Identification		Parameter(s)
		Total Petroleum Hydrocarbons
Method Blank		<10.0
Method Detection Limit		10.0
1983501	CA-MW1 6-	127
1983502	B24SB1 24	125

0000488

NYTEST ENVIRONMENTAL, inc.

REPORT OF ANALYSIS

Log In No.: 19764

We find as follows:

Results in mg/kg (dry weight basis) :

Sample Identification		Parameter(s)
		Total Petroleum Hydrocarbons
Method Blank		<10.0
Method Detection Limit		10.0
1976401	CA-MW24-6	126

0000349

REPORT OF ANALYSIS

Log In No.: 19835

We find as follows:

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

Parameter(s)	Sample Identification	
	CA-MW1 6-8 (1983501)	B24SB1 24-26 (1983502)
Gasoline	76 U	78 U
TPH (as Gasoline)	ND	ND
Kerosene	76 U	78 U
TPH (as Kerosene)	ND	ND
#2 Fuel Oil	76 U	78 U
TPH (as #2 Fuel Oil)	ND	ND
#6 Fuel Oil	76 U	78 U
TPH (as #6 Fuel Oil)	ND	ND
Lubricating Oil	76 U	78 U
TPH (as Lubricating Oil)	ND	ND

ND = Not Detected

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

0000223

REPORT OF ANALYSIS

Log In No.: 19764

We find as follows:

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

Parameter(s)	Sample Identification CA-MW2 4-6 (1976401)
Gasoline	82 U
TPH (as Gasoline)	ND
Kerosene	82 U
TPH (as Kerosene)	ND
#2 Fuel Oil	82 U
TPH (as #2 Fuel Oil)	ND
#6 Fuel Oil	82 U
TPH (as #6 Fuel Oil)	ND
Lubricating Oil	82 U
TPH (as Lubricating Oil)	ND

NA = Not Applicable
ND = Not Detected

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

0000285

REPORT OF ANALYSIS

Log In No.: 20128

We find as follows:

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

Parameter(s)	Sample Identification			
	CA-SS-1 (2012801)	CA-SS-2 (2012802)	CA-SS-3 (2012803)	CA-SS-4 (2012804)
Gasoline	100 U	95 U	91 U	94 U
TPH (as Gasoline)	ND	ND	ND	ND
Kerosene	100 U	95 U	91 U	94 U
TPH (as Kerosene)	ND	ND	ND	ND
#2 Fuel Oil	100 U	95 U	91 U	94 U
TPH (as #2 Fuel Oil)	ND	ND	ND	ND
#6 Fuel Oil	100 U	95 U	91 U	94 U
TPH (as #6 Fuel Oil)	ND	ND	ND	ND
Lubricating Oil	100 U	95 U	91 U	94 U
TPH (as Lubricating Oil)	ND	ND	ND	ND

NA = Not Applicable
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.

1 D-T

NYTEST ENVIRONMENTAL INC.

TCL PESTICIDE/PCB ORGANICS ANALYSIS DATA SHEET

SAMPLE MATRIX:	SOIL	SAMPLE ID:	CA-MW1 6-8
CONC. LEVEL:	LOW	LAB SAMPLE ID:	1983501
EXTRACTION DATE:	2/18/94	DIL FACTOR:	1.00
ANALYSIS DATE:	2/28/94	% MOISTURE:	2

CMPD #	CAS Number	PESTICIDE/PCB COMPOUND	UG/KG (DRY BASIS)
1	319-84-6	alpha-BHC	NA
2	319-85-7	beta-BHC	NA
3	319-86-8	delta-BHC	NA
4	58-89-9	gamma-BHC(Lindane)	NA
5	76-44-8	Heptachlor	NA
6	309-00-2	Aldrin	NA
7	1024-57-3	Heptachlor Epoxide	NA
8	959-98-8	Endosulfan I	NA
9	60-57-1	Dieldrin	NA
10	72-55-9	4,4'-DDE	NA
11	70-20-8	Endrin	NA
12	33213-65-9	Endosulfan II	NA
13	72-54-8	4,4-DDD	NA
14	1031-07-8	Endosulfan Sulfate	NA
15	50-29-3	4,4'-DDT	NA
16	72-43-5	Methoxychlor	NA
17	53494-70-5	Endrin Ketone	NA
18	7421-36-3	Endrin Aldehyde	NA
19	57-74-9	Chlordane	NA
20	8001-35-2	Toxaphene	NA
21	12674-11-2	Aroclor-1016	80.000 U.
22	11104-28-2	Aroclor-1221	80.000 U.
23	11141-16-5	Aroclor-1232	80.000 U.
24	53469-21-9	Aroclor-1242	80.000 U.
25	12672-29-6	Aroclor-1248	80.000 U.
26	11097-69-1	Aroclor-1254	80.000 U.
27	11096-82-5	Aroclor-1260	80.000 U.

0000179

1 D-T

NYTEST ENVIRONMENTAL INC.

TCL PESTICIDE/PCB ORGANICS ANALYSIS DATA SHEET

SAMPLE MATRIX:	SOIL	SAMPLE ID:	CA-MW2 4-6
CONC. LEVEL:	LOW	LAB SAMPLE ID:	1976401
EXTRACTION DATE:	2/10/94	DIL FACTOR:	1.00
ANALYSIS DATE:	2/15/94	% MOISTURE:	8

CMPD #	CAS Number	PESTICIDE/PCB COMPOUND	UG/KG (DRY BASIS)
1	319-84-6	alpha-BHC	NA
2	319-85-7	beta-BHC	NA
3	319-86-8	delta-BHC	NA
4	58-89-9	gamma-BHC(Lindane)	NA
5	76-44-8	Heptachlor	NA
6	309-00-2	Aldrin	NA
7	1024-57-3	Heptachlor Epoxide	NA
8	959-98-8	Endosulfan I	NA
9	60-57-1	Dieldrin	NA
10	72-55-9	4,4'-DDE	NA
11	70-20-8	Endrin	NA
12	33213-65-9	Endosulfan II	NA
13	72-54-8	4,4-DDD	NA
14	1031-07-8	Endosulfan Sulfate	NA
15	50-29-3	4,4'-DDT	NA
16	72-43-5	Methoxychlor	NA
17	53494-70-5	Endrin Ketone	NA
18	7421-36-3	Endrin Aldehyde	NA
19	57-74-9	Chlordane	NA
20	8001-35-2	Toxaphene	NA
21	12674-11-2	Aroclor-1016	87.000 U.
22	11104-28-2	Aroclor-1221	87.000 U.
23	11141-16-5	Aroclor-1232	87.000 U.
24	53469-21-9	Aroclor-1242	87.000 U.
25	12672-29-6	Aroclor-1248	87.000 U.
26	11097-69-1	Aroclor-1254	87.000 U.
27	11096-82-5	Aroclor-1260	87.000 U.

U.S. EPA - CLP

1

INORGANIC ANALYSES DATA SHEET

EPA SAMPLE NO.

CASS1X

Lab Name: NYTEST_ENV_INC Contract: 9420800

Lab Code: NYTEST Case No.: 20128 SAS No.: SDG No.: 609

Matrix (soil/water): SOIL Lab Sample ID: 012801

Level (low/med): LOW Date Received: 03/22/94

% Solids: 71.9

Concentration Units (ug/L or mg/kg dry weight): MG/KG

CAS No.	Analyte	Concentration	C	Q	M
7429-90-5	Aluminum				NR
7440-36-0	Antimony	15.6	U		P
7440-38-2	Arsenic	6.0		N	F
7440-39-3	Barium				NR
7440-41-7	Beryllium	0.58	B		P
7440-43-9	Cadmium	1.1	U		P
7440-70-2	Calcium				NR
7440-47-3	Chromium	20.7		*	P
7440-48-4	Cobalt				NR
7440-50-8	Copper	29.5			P
7439-89-6	Iron				NR
7439-92-1	Lead	203			P
7439-95-4	Magnesium				NR
7439-96-5	Manganese				NR
7439-97-6	Mercury	0.16		*	CV
7440-02-0	Nickel	15.3			P
7440-09-7	Potassium				NR
7782-49-2	Selenium	1.3	U	W	F
7440-22-4	Silver	1.7	U		P
7440-23-5	Sodium				NR
7440-28-0	Thallium	1.3	U		F
7440-62-2	Vanadium				NR
7440-66-6	Zinc	110		E	P
5955-70-0	Cyanide				NR

Color Before: BLACK Clarity Before: Texture: MEDIUM

Color After: YELLOW Clarity After: CLEAR Artifacts:

Comments:

CA-SS-1

"E"=ICP-SERIAL_DILUTION_RUN_HAS_%DIFFERENCE_OF_>10%.

U.S. EPA - CLP

1

INORGANIC ANALYSES DATA SHEET

EPA SAMPLE NO.

1912XX

Lab Name: NYTEST_ENV_INC Contract: 9420800

Lab Code: NYTEST Case No.: 20517 SAS No.: SDG No.: 632

Matrix (soil/water): SOIL Lab Sample ID: 051716

Level (low/med): LOW Date Received: 04/28/94

% Solids: 89.4

Concentration Units (ug/L or mg/kg dry weight): MG/KG

CAS No.	Analyte	Concentration	C	Q	M
7429-90-5	Aluminum				NR
7440-36-0	Antimony	5.7	U		P
7440-38-2	Arsenic	1.8	B	W*	F
7440-39-3	Barium				NR
7440-41-7	Beryllium	0.36	B		P
7440-43-9	Cadmium	0.88	U		P
7440-70-2	Calcium				NR
7440-47-3	Chromium	6.1			P
7440-48-4	Cobalt				NR
7440-50-8	Copper	1.2	B		P
7439-89-6	Iron				NR
7439-92-1	Lead	7.1		*	F
7439-95-4	Magnesium				NR
7439-96-5	Manganese				NR
7439-97-6	Mercury	0.14			CV
7440-02-0	Nickel	5.0	U		P
7440-09-7	Potassium				NR
7782-49-2	Selenium	1.1	U		F
7440-22-4	Silver	1.1	U		P
7440-23-5	Sodium				NR
7440-28-0	Thallium	1.1	U		F
7440-62-2	Vanadium				NR
7440-66-6	Zinc	14.6		*	P
5955-70-0	Cyanide				NR

Color Before: BROWN Clarity Before: Texture: MEDIUM

Color After: YELLOW Clarity After: CLEAR Artifacts:

Comments:

CASS1_9-12

AS_AT_2X_DILUTION.

1

INORGANIC ANALYSES DATA SHEET

EPA SAMPLE NO.

CASS2X

Lab Name: NYTEST_ENV_INC Contract: 9420800

Lab Code: NYTEST Case No.: 20128 SAS No.: SDG No.: 609

Matrix (soil/water): SOIL Lab Sample ID: 012802

Level (low/med): LOW Date Received: 03/22/94

% Solids: 79.2

Concentration Units (ug/L or mg/kg dry weight): MG/KG

CAS No.	Analyte	Concentration	C	Q	M
7429-90-5	Aluminum				NR
7440-36-0	Antimony	14.0	U		P
7440-38-2	Arsenic	20.9		N	F
7440-39-3	Barium				NR
7440-41-7	Beryllium	0.53	B		P
7440-43-9	Cadmium	1.0	U		P
7440-70-2	Calcium				NR
7440-47-3	Chromium	42.4		*	P
7440-48-4	Cobalt				NR
7440-50-8	Copper	27.7			P
7439-89-6	Iron				NR
7439-92-1	Lead	335			P
7439-95-4	Magnesium				NR
7439-96-5	Manganese				NR
7439-97-6	Mercury	0.13	U	*	CV
7440-02-0	Nickel	18.2			P
7440-09-7	Potassium				NR
7782-49-2	Selenium	1.2	U		F
7440-22-4	Silver	1.5	U		P
7440-23-5	Sodium				NR
7440-28-0	Thallium	1.2	U		F
7440-62-2	Vanadium				NR
7440-66-6	Zinc	144		E	P
5955-70-0	Cyanide				NR

Color Before: BROWN Clarity Before: Texture: MEDIUM

Color After: YELLOW Clarity After: CLEAR Artifacts:

Comments:

CA-SS-2

AS_AT_2X_DILUTION.

"E"=ICP-SERIAL_DILUTION_RUN_HAS_%DIFFERENCE_OF_>10%.

1

INORGANIC ANALYSES DATA SHEET

EPA SAMPLE NO.

2912XX

Lab Name: NYTEST_ENV_INC Contract: 9420800

Lab Code: NYTEST Case No.: 20517 SAS No.: SDG No.: 632

Matrix (soil/water): SOIL Lab Sample ID: 051711

Level (low/med): LOW Date Received: 04/28/94

% Solids: 93.1

Concentration Units (ug/L or mg/kg dry weight): MG/KG

CAS No.	Analyte	Concentration	C	Q	M
7429-90-5	Aluminum				NR
7440-36-0	Antimony	4.9	U		P
7440-38-2	Arsenic	5.9		*	F
7440-39-3	Barium				NR
7440-41-7	Beryllium	0.32	B		P
7440-43-9	Cadmium	0.76	U		P
7440-70-2	Calcium				NR
7440-47-3	Chromium	7.3			P
7440-48-4	Cobalt				NR
7440-50-8	Copper	2.2	B		P
7439-89-6	Iron				NR
7439-92-1	Lead	13.8		*	F
7439-95-4	Magnesium				NR
7439-96-5	Manganese				NR
7439-97-6	Mercury	0.11	U		CV
7440-02-0	Nickel	5.5	B		P
7440-09-7	Potassium				NR
7782-49-2	Selenium	0.91	U		F
7440-22-4	Silver	0.95	U		P
7440-23-5	Sodium				NR
7440-28-0	Thallium	0.91	U		F
7440-62-2	Vanadium				NR
7440-66-6	Zinc	19.4		*	P
5955-70-0	Cyanide				NR

Color Before: BROWN Clarity Before: Texture: MEDIUM

Color After: YELLOW Clarity After: CLEAR Artifacts:

Comments:

CASS2_9-12

AS,_PB_AT_2X_DILUTION.

1

INORGANIC ANALYSES DATA SHEET

EPA SAMPLE NO.

CASS3X

Lab Name: NYTEST_ENV_INC Contract: 9420800

Lab Code: NYTEST Case No.: 20128 SAS No.: SDG No.: 609

Matrix (soil/water): SOIL Lab Sample ID: 012803

Level (low/med): LOW Date Received: 03/22/94

% Solids: 81.8

Concentration Units (ug/L or mg/kg dry weight): MG/KG

CAS No.	Analyte	Concentration	C	Q	M
7429-90-5	Aluminum				NR
7440-36-0	Antimony	12.8	U		P
7440-38-2	Arsenic	5.6		N	F
7440-39-3	Barium				NR
7440-41-7	Beryllium	0.48	B		P
7440-43-9	Cadmium	0.91	U		P
7440-70-2	Calcium				NR
7440-47-3	Chromium	18.7		*	P
7440-48-4	Cobalt				NR
7440-50-8	Copper	24.5			P
7439-89-6	Iron				NR
7439-92-1	Lead	186			P
7439-95-4	Magnesium				NR
7439-96-5	Manganese				NR
7439-97-6	Mercury	0.12	U	*	CV
7440-02-0	Nickel	20.7			P
7440-09-7	Potassium				NR
7782-49-2	Selenium	1.2	U		F
7440-22-4	Silver	1.4	U		P
7440-23-5	Sodium				NR
7440-28-0	Thallium	1.2	U		F
7440-62-2	Vanadium				NR
7440-66-6	Zinc	139		E	P
5955-70-0	Cyanide				NR

Color Before: BROWN Clarity Before: Texture: MEDIUM

Color After: YELLOW Clarity After: CLEAR Artifacts:

Comments:

CA-SS-3

"E"=ICP-SERIAL_DILUTION_RUN_HAS_%DIFFERENCE_OF_>10%.

U.S. EPA - CLP

1

INORGANIC ANALYSES DATA SHEET

EPA SAMPLE NO.

3912XX

Lab Name: NYTEST_ENV_INC Contract: 9420800

Lab Code: NYTEST Case No.: 20517 SAS No.: SDG No.: 632

Matrix (soil/water): SOIL Lab Sample ID: 051706

Level (low/med): LOW Date Received: 04/28/94

% Solids: 91.2

Concentration Units (ug/L or mg/kg dry weight): MG/KG

CAS No.	Analyte	Concentration	C	Q	M
7429-90-5	Aluminum				NR
7440-36-0	Antimony	5.5	U		P
7440-38-2	Arsenic	6.8		+*	F
7440-39-3	Barium				NR
7440-41-7	Beryllium	0.46	B		P
7440-43-9	Cadmium	0.85	U		P
7440-70-2	Calcium				NR
7440-47-3	Chromium	5.1			P
7440-48-4	Cobalt				NR
7440-50-8	Copper	1.6	B		P
7439-89-6	Iron				NR
7439-92-1	Lead	6.2		*	F
7439-95-4	Magnesium				NR
7439-96-5	Manganese				NR
7439-97-6	Mercury	0.13			CV
7440-02-0	Nickel	4.9	U		P
7440-09-7	Potassium				NR
7782-49-2	Selenium	1.1	U		F
7440-22-4	Silver	1.1	U		P
7440-23-5	Sodium				NR
7440-28-0	Thallium	1.1	U		F
7440-62-2	Vanadium				NR
7440-66-6	Zinc	19.8		*	P
5955-70-0	Cyanide				NR

Color Before: BROWN Clarity Before: Texture: MEDIUM

Color After: YELLOW Clarity After: CLEAR Artifacts:

Comments:

CASS3_9-12

AS_AT_2X_DILUTION.

1

INORGANIC ANALYSES DATA SHEET

EPA SAMPLE NO.

CASS4X

Lab Name: NYTEST_ENV_INC Contract: 9420800

Lab Code: NYTEST Case No.: 20128 SAS No.: SDG No.: 609

Matrix (soil/water): SOIL Lab Sample ID: 012804

Level (low/med): LOW Date Received: 03/22/94

% Solids: 80.2

Concentration Units (ug/L or mg/kg dry weight): MG/KG

CAS No.	Analyte	Concentration	C	Q	M
7429-90-5	Aluminum				NR
7440-36-0	Antimony	13.8	U		P
7440-38-2	Arsenic	8.9		N	F
7440-39-3	Barium				NR
7440-41-7	Beryllium	0.54	B		P
7440-43-9	Cadmium	0.99	U		P
7440-70-2	Calcium				NR
7440-47-3	Chromium	36.4		*	P
7440-48-4	Cobalt				NR
7440-50-8	Copper	31.1			P
7439-89-6	Iron				NR
7439-92-1	Lead	217			P
7439-95-4	Magnesium				NR
7439-96-5	Manganese				NR
7439-97-6	Mercury	0.13		*	CV
7440-02-0	Nickel	16.7			P
7440-09-7	Potassium				NR
7782-49-2	Selenium	1.2	U	W	F
7440-22-4	Silver	1.5	U		P
7440-23-5	Sodium				NR
7440-28-0	Thallium	1.2	U		F
7440-62-2	Vanadium				NR
7440-66-6	Zinc	108		E	P
5955-70-0	Cyanide				NR

Color Before: BROWN Clarity Before: Texture: MEDIUM

Color After: YELLOW Clarity After: CLEAR Artifacts:

Comments:

CA-SS-4

"E"=ICP-SERIAL_DILUTION_RUN_HAS_%DIFFERENCE_OF_>10%.

U.S. EPA - CLP

1

INORGANIC ANALYSES DATA SHEET

EPA SAMPLE NO.

4912XX

Lab Name: NYTEST_ENV_INC Contract: 9420800

Lab Code: NYTEST Case No.: 20517 SAS No.: SDG No.: 632

Matrix (soil/water): SOIL Lab Sample ID: 051701

Level (low/med): LOW Date Received: 04/28/94

% Solids: 93.5

Concentration Units (ug/L or mg/kg dry weight): MG/KG

CAS No.	Analyte	Concentration	C	Q	M
7429-90-5	Aluminum				NR
7440-36-0	Antimony	5.1	U		P
7440-38-2	Arsenic	5.3		*	F
7440-39-3	Barium				NR
7440-41-7	Beryllium	0.53	B		P
7440-43-9	Cadmium	0.78	U		P
7440-70-2	Calcium				NR
7440-47-3	Chromium	3.2			P
7440-48-4	Cobalt				NR
7440-50-8	Copper	0.97	U		P
7439-89-6	Iron				NR
7439-92-1	Lead	8.7		*	F
7439-95-4	Magnesium				NR
7439-96-5	Manganese				NR
7439-97-6	Mercury	0.11	U		CV
7440-02-0	Nickel	4.5	U		P
7440-09-7	Potassium				NR
7782-49-2	Selenium	1.1	U	W	F
7440-22-4	Silver	0.97	U		P
7440-23-5	Sodium				NR
7440-28-0	Thallium	1.1	U		F
7440-62-2	Vanadium				NR
7440-66-6	Zinc	6.9		*	P
5955-70-0	Cyanide				NR

Color Before: BROWN Clarity Before: Texture: MEDIUM

Color After: YELLOW Clarity After: CLEAR Artifacts:

Comments:

CASS4_9-12

U.S. EPA - CLP

1

INORGANIC ANALYSES DATA SHEET

EPA SAMPLE NO.

506XXX

Lab Name: NYTEST_ENV_INC Contract: 9420800

Lab Code: NYTEST Case No.: 20517 SAS No.: SDG No.: 632

Matrix (soil/water): SOIL Lab Sample ID: 051712

Level (low/med): LOW Date Received: 04/28/94

% Solids: 94.4

Concentration Units (ug/L or mg/kg dry weight): MG/KG

CAS No.	Analyte	Concentration	C	Q	M
7429-90-5	Aluminum				NR
7440-36-0	Antimony	5.1	U		P
7440-38-2	Arsenic	3.4	B	W*	F
7440-39-3	Barium				NR
7440-41-7	Beryllium	0.33	B		P
7440-43-9	Cadmium	0.79	U		P
7440-70-2	Calcium				NR
7440-47-3	Chromium	6.4			P
7440-48-4	Cobalt				NR
7440-50-8	Copper	1.4	B		P
7439-89-6	Iron				NR
7439-92-1	Lead	8.5		*	F
7439-95-4	Magnesium				NR
7439-96-5	Manganese				NR
7439-97-6	Mercury	0.11	U		CV
7440-02-0	Nickel	4.6	U		P
7440-09-7	Potassium				NR
7782-49-2	Selenium	1.0	U	W	F
7440-22-4	Silver	0.99	U		P
7440-23-5	Sodium				NR
7440-28-0	Thallium	1.0	U	W	F
7440-62-2	Vanadium				NR
7440-66-6	Zinc	15.5		*	P
5955-70-0	Cyanide				NR

Color Before: BROWN Clarity Before: Texture: MEDIUM

Color After: YELLOW Clarity After: CLEAR Artifacts:

Comments:

CASS5_0-6

AS_AT_2X_DILUTION.

U.S. EPA - CLP

1

INORGANIC ANALYSES DATA SHEET

EPA SAMPLE NO.

5912XX

Lab Name: NYTEST_ENV_INC Contract: 9420800

Lab Code: NYTEST Case No.: 20517 SAS No.: SDG No.: 632

Matrix (soil/water): SOIL Lab Sample ID: 051713

Level (low/med): LOW Date Received: 04/28/94

% Solids: 94.2

Concentration Units (ug/L or mg/kg dry weight): MG/KG

CAS No.	Analyte	Concentration	C	Q	M
7429-90-5	Aluminum				NR
7440-36-0	Antimony	7.8	B		P
7440-38-2	Arsenic	1.4	B	S*	F
7440-39-3	Barium				NR
7440-41-7	Beryllium	0.35	B		P
7440-43-9	Cadmium	0.82	U		P
7440-70-2	Calcium				NR
7440-47-3	Chromium	5.1			P
7440-48-4	Cobalt				NR
7440-50-8	Copper	1.0	U		P
7439-89-6	Iron				NR
7439-92-1	Lead	3.9		*	F
7439-95-4	Magnesium				NR
7439-96-5	Manganese				NR
7439-97-6	Mercury	0.11	U		CV
7440-02-0	Nickel	4.7	U		P
7440-09-7	Potassium				NR
7782-49-2	Selenium	1.1	U		F
7440-22-4	Silver	1.0	U		P
7440-23-5	Sodium				NR
7440-28-0	Thallium	1.1	U		F
7440-62-2	Vanadium				NR
7440-66-6	Zinc	14.8		*	P
5955-70-0	Cyanide				NR

Color Before: BROWN Clarity Before: Texture: MEDIUM

Color After: COLORLESS Clarity After: CLEAR Artifacts:

Comments:

CASS5_9-12

U.S. EPA - CLP

1

INORGANIC ANALYSES DATA SHEET

EPA SAMPLE NO.

606XXX

Lab Name: NYTEST_ENV_INC Contract: 9420800

Lab Code: NYTEST Case No.: 20517 SAS No.: SDG No.: 632

Matrix (soil/water): SOIL Lab Sample ID: 051714

Level (low/med): LOW Date Received: 04/28/94

% Solids: 91.7

Concentration Units (ug/L or mg/kg dry weight): MG/KG

CAS No.	Analyte	Concentration	C	Q	M
7429-90-5	Aluminum				NR
7440-36-0	Antimony	5.6	U		P
7440-38-2	Arsenic	6.2		*	F
7440-39-3	Barium				NR
7440-41-7	Beryllium	0.35	B		P
7440-43-9	Cadmium	0.86	U		P
7440-70-2	Calcium				NR
7440-47-3	Chromium	7.9			P
7440-48-4	Cobalt				NR
7440-50-8	Copper	2.5	B		P
7439-89-6	Iron				NR
7439-92-1	Lead	20.8		*	F
7439-95-4	Magnesium				NR
7439-96-5	Manganese				NR
7439-97-6	Mercury	0.11	U		CV
7440-02-0	Nickel	5.0	U		P
7440-09-7	Potassium				NR
7782-49-2	Selenium	1.1	U	W	F
7440-22-4	Silver	1.1	U		P
7440-23-5	Sodium				NR
7440-28-0	Thallium	1.1	U		F
7440-62-2	Vanadium				NR
7440-66-6	Zinc	15.4		*	P
5955-70-0	Cyanide				NR

Color Before: BROWN Clarity Before: Texture: MEDIUM

Color After: YELLOW Clarity After: CLEAR Artifacts:

Comments:

CASS6_0-6

AS,_PB_AT_2X_DILUTION.

FORM I - IN

ILMO2.1

0000019

U.S. EPA - CLP

1

INORGANIC ANALYSES DATA SHEET

EPA SAMPLE NO.

6912XX

Lab Name: NYTEST_ENV_INC Contract: 9420800

Lab Code: NYTEST Case No.: 20517 SAS No.: SDG No.: 632

Matrix (soil/water): SOIL Lab Sample ID: 051715

Level (low/med): LOW Date Received: 04/28/94

% Solids: 92.9

Concentration Units (ug/L or mg/kg dry weight): MG/KG

CAS No.	Analyte	Concentration	C	Q	M
7429-90-5	Aluminum				NR
7440-36-0	Antimony	5.5	U		P
7440-38-2	Arsenic	4.3		*	F
7440-39-3	Barium				NR
7440-41-7	Beryllium	0.35	B		P
7440-43-9	Cadmium	0.84	U		P
7440-70-2	Calcium				NR
7440-47-3	Chromium	7.7			P
7440-48-4	Cobalt				NR
7440-50-8	Copper	1.1	U		P
7439-89-6	Iron				NR
7439-92-1	Lead	4.3		*	F
7439-95-4	Magnesium				NR
7439-96-5	Manganese				NR
7439-97-6	Mercury	0.11	U		CV
7440-02-0	Nickel	4.9	U		P
7440-09-7	Potassium				NR
7782-49-2	Selenium	1.1	U	W	F
7440-22-4	Silver	1.1	U		P
7440-23-5	Sodium				NR
7440-28-0	Thallium	1.1	U		F
7440-62-2	Vanadium				NR
7440-66-6	Zinc	12.5		*	P
5955-70-0	Cyanide				NR

Color Before: BROWN Clarity Before: Texture: MEDIUM

Color After: COLORLESS Clarity After: CLEAR Artifacts:

Comments:

CASS6_9-12

U.S. EPA - CLP

1

INORGANIC ANALYSES DATA SHEET

EPA SAMPLE NO.

706XXX

Lab Name: NYTEST_ENV_INC Contract: 9420800

Lab Code: NYTEST Case No.: 20517 SAS No.: SDG No.: 632

Matrix (soil/water): SOIL Lab Sample ID: 051717

Level (low/med): LOW Date Received: 04/28/94

% Solids: 92.6

Concentration Units (ug/L or mg/kg dry weight): MG/KG

CAS No.	Analyte	Concentration	C	Q	M
7429-90-5	Aluminum				NR
7440-36-0	Antimony	5.6	U		P
7440-38-2	Arsenic	4.1		+*	F
7440-39-3	Barium				NR
7440-41-7	Beryllium	0.36	B		P
7440-43-9	Cadmium	0.86	U		P
7440-70-2	Calcium				NR
7440-47-3	Chromium	6.4			P
7440-48-4	Cobalt				NR
7440-50-8	Copper	1.4	B		P
7439-89-6	Iron				NR
7439-92-1	Lead	10.1		*	F
7439-95-4	Magnesium				NR
7439-96-5	Manganese				NR
7439-97-6	Mercury	0.11			CV
7440-02-0	Nickel	5.0	U		P
7440-09-7	Potassium				NR
7782-49-2	Selenium	1.1	U		F
7440-22-4	Silver	1.1	U		P
7440-23-5	Sodium				NR
7440-28-0	Thallium	1.1	U		F
7440-62-2	Vanadium				NR
7440-66-6	Zinc	11.8		*	P
5955-70-0	Cyanide				NR

Color Before: BROWN Clarity Before: Texture: MEDIUM

Color After: YELLOW Clarity After: CLEAR Artifacts:

Comments:

CASS7_0-6

FORM I - IN

U.S. EPA - CLP

1

INORGANIC ANALYSES DATA SHEET

EPA SAMPLE NO.

7912XX

Lab Name: NYTEST_ENV_INC Contract: 9420800

Lab Code: NYTEST Case No.: 20517 SAS No.: SDG No.: 632

Matrix (soil/water): SOIL Lab Sample ID: 051718

Level (low/med): LOW Date Received: 04/28/94

% Solids: 89.8

Concentration Units (ug/L or mg/kg dry weight): MG/KG

CAS No.	Analyte	Concentration	C	Q	M
7429-90-5	Aluminum				NR
7440-36-0	Antimony	5.4	U		P
7440-38-2	Arsenic	8.7		*	F
7440-39-3	Barium				NR
7440-41-7	Beryllium	0.82	B		P
7440-43-9	Cadmium	0.82	U		P
7440-70-2	Calcium				NR
7440-47-3	Chromium	8.5			P
7440-48-4	Cobalt				NR
7440-50-8	Copper	1.9	B		P
7439-89-6	Iron				NR
7439-92-1	Lead	14.9		S*	F
7439-95-4	Magnesium				NR
7439-96-5	Manganese				NR
7439-97-6	Mercury	0.12			CV
7440-02-0	Nickel	4.7	U		P
7440-09-7	Potassium				NR
7782-49-2	Selenium	1.1	U	W	F
7440-22-4	Silver	1.0	U		P
7440-23-5	Sodium				NR
7440-28-0	Thallium	1.1	U		F
7440-62-2	Vanadium				NR
7440-66-6	Zinc	20.5		*	P
5955-70-0	Cyanide				NR

Color Before: BROWN Clarity Before: Texture: MEDIUM

Color After: YELLOW Clarity After: CLEAR Artifacts:

Comments:

CASS7_9-12

AS,_PB_AT_2X_DILUTION.

FORM I - IN

0000022 ILMO2.1

U.S. EPA - CLP

1

INORGANIC ANALYSES DATA SHEET

EPA SAMPLE NO.

806XXX

Lab Name: NYTEST_ENV_INC Contract: 9420800

Lab Code: NYTEST Case No.: 20517 SAS No.: SDG No.: 632

Matrix (soil/water): SOIL Lab Sample ID: 051723

Level (low/med): LOW Date Received: 04/28/94

% Solids: 93.7

Concentration Units (ug/L or mg/kg dry weight): MG/KG

CAS No.	Analyte	Concentration	C	Q	M
7429-90-5	Aluminum				NR
7440-36-0	Antimony	5.4	U		P
7440-38-2	Arsenic	3.8		*	F
7440-39-3	Barium				NR
7440-41-7	Beryllium	0.34	B		P
7440-43-9	Cadmium	0.83	U		P
7440-70-2	Calcium				NR
7440-47-3	Chromium	5.6			P
7440-48-4	Cobalt				NR
7440-50-8	Copper	1.0	U		P
7439-89-6	Iron				NR
7439-92-1	Lead	15.8		*	F
7439-95-4	Magnesium				NR
7439-96-5	Manganese				NR
7439-97-6	Mercury	0.11	U		CV
7440-02-0	Nickel	4.8	U		P
7440-09-7	Potassium				NR
7782-49-2	Selenium	1.0	U		F
7440-22-4	Silver	1.0	U		P
7440-23-5	Sodium				NR
7440-28-0	Thallium	1.0	U		F
7440-62-2	Vanadium				NR
7440-66-6	Zinc	11.1		*	P
5955-70-0	Cyanide				NR

Color Before: BROWN Clarity Before: Texture: MEDIUM

Color After: YELLOW Clarity After: CLEAR Artifacts:

Comments:

CASS8_0-6

PB_AT_2X_DILUTION.

U.S. EPA - CLP

1

INORGANIC ANALYSES DATA SHEET

EPA SAMPLE NO.

8912XX

Lab Name: NYTEST_ENV_INC Contract: 9420800

Lab Code: NYTEST Case No.: 20517 SAS No.: SDG No.: 632

Matrix (soil/water): SOIL Lab Sample ID: 051724

Level (low/med): LOW Date Received: 04/28/94

% Solids: 96.4

Concentration Units (ug/L or mg/kg dry weight): MG/KG

CAS No.	Analyte	Concentration	C	Q	M
7429-90-5	Aluminum				NR
7440-36-0	Antimony	5.4	U		P
7440-38-2	Arsenic	2.3		W*	F
7440-39-3	Barium				NR
7440-41-7	Beryllium	0.48	B		P
7440-43-9	Cadmium	0.83	U		P
7440-70-2	Calcium				NR
7440-47-3	Chromium	4.1			P
7440-48-4	Cobalt				NR
7440-50-8	Copper	1.0	U		P
7439-89-6	Iron				NR
7439-92-1	Lead	2.6		*	F
7439-95-4	Magnesium				NR
7439-96-5	Manganese				NR
7439-97-6	Mercury	0.10	U		CV
7440-02-0	Nickel	4.8	U		P
7440-09-7	Potassium				NR
7782-49-2	Selenium	1.0	U		F
7440-22-4	Silver	1.0	U		P
7440-23-5	Sodium				NR
7440-28-0	Thallium	1.0	U		F
7440-62-2	Vanadium				NR
7440-66-6	Zinc	7.5		*	P
5955-70-0	Cyanide				NR

Color Before: BROWN Clarity Before: Texture: MEDIUM

Color After: COLORLESS Clarity After: CLEAR Artifacts:

Comments:

CASS8_9-12

U.S. EPA - CLP

1

INORGANIC ANALYSES DATA SHEET

EPA SAMPLE NO.

906XXX

Lab Name: NYTEST_ENV_INC Contract: 9420800

Lab Code: NYTEST Case No.: 20517 SAS No.: SDG No.: 632

Matrix (soil/water): SOIL Lab Sample ID: 051719

Level (low/med): LOW Date Received: 04/28/94

% Solids: 93.5

Concentration Units (ug/L or mg/kg dry weight): MG/KG

CAS No.	Analyte	Concentration	C	Q	M
7429-90-5	Aluminum				NR
7440-36-0	Antimony	5.6	U		P
7440-38-2	Arsenic	8.0		*	F
7440-39-3	Barium				NR
7440-41-7	Beryllium	0.68	B		P
7440-43-9	Cadmium	0.86	U		P
7440-70-2	Calcium				NR
7440-47-3	Chromium	10.9			P
7440-48-4	Cobalt				NR
7440-50-8	Copper	11.1			P
7439-89-6	Iron				NR
7439-92-1	Lead	47.4		*	F
7439-95-4	Magnesium				NR
7439-96-5	Manganese				NR
7439-97-6	Mercury	0.16			CV
7440-02-0	Nickel	10.2			P
7440-09-7	Potassium				NR
7782-49-2	Selenium	1.0	U		F
7440-22-4	Silver	1.1	U		P
7440-23-5	Sodium				NR
7440-28-0	Thallium	1.0	U		F
7440-62-2	Vanadium				NR
7440-66-6	Zinc	30.9		*	P
5955-70-0	Cyanide				NR

Color Before: BROWN Clarity Before: Texture: MEDIUM

Color After: YELLOW Clarity After: CLEAR Artifacts:

Comments:

CASS9_0-6

PB_AT_8X_DILUTION.

U.S. EPA - CLP

1

INORGANIC ANALYSES DATA SHEET

EPA SAMPLE NO.

9912XX

Lab Name: NYTEST_ENV_INC Contract: 9420800

Lab Code: NYTEST Case No.: 20517 SAS No.: SDG No.: 632

Matrix (soil/water): SOIL Lab Sample ID: 051722

Level (low/med): LOW Date Received: 04/28/94

% Solids: 88.2

Concentration Units (ug/L or mg/kg dry weight): MG/KG

CAS No.	Analyte	Concentration	C	Q	M
7429-90-5	Aluminum				NR
7440-36-0	Antimony	5.7	U		P
7440-38-2	Arsenic	8.2	B	*	F
7440-39-3	Barium				NR
7440-41-7	Beryllium	0.62	B		P
7440-43-9	Cadmium	0.88	U		P
7440-70-2	Calcium				NR
7440-47-3	Chromium	8.6			P
7440-48-4	Cobalt				NR
7440-50-8	Copper	8.0			P
7439-89-6	Iron				NR
7439-92-1	Lead	20.9		*	F
7439-95-4	Magnesium				NR
7439-96-5	Manganese				NR
7439-97-6	Mercury	0.22			CV
7440-02-0	Nickel	5.1	U		P
7440-09-7	Potassium				NR
7782-49-2	Selenium	1.1	U	W	F
7440-22-4	Silver	1.1	U		P
7440-23-5	Sodium				NR
7440-28-0	Thallium	1.1	U		F
7440-62-2	Vanadium				NR
7440-66-6	Zinc	28.7		*	P
5955-70-0	Cyanide				NR

Color Before: BROWN Clarity Before: Texture: MEDIUM

Color After: YELLOW Clarity After: CLEAR Artifacts:

Comments:

CASS9_9-12

AS,_PB_AT_1X_DILUTION.

FORM I - IN

ILMO2.1

0000026

U.S. EPA - CLP

1

INORGANIC ANALYSES DATA SHEET

EPA SAMPLE NO.

1006XX

Lab Name: NYTEST_ENV_INC Contract: 9420800

Lab Code: NYTEST Case No.: 20517 SAS No.: SDG No.: 632

Matrix (soil/water): SOIL Lab Sample ID: 051709

Level (low/med): LOW Date Received: 04/28/94

% Solids: 94.3

Concentration Units (ug/L or mg/kg dry weight): MG/KG

CAS No.	Analyte	Concentration	C	Q	M
7429-90-5	Aluminum				NR
7440-36-0	Antimony	5.3	U		P
7440-38-2	Arsenic	5.4		*	F
7440-39-3	Barium				NR
7440-41-7	Beryllium	0.33	B		P
7440-43-9	Cadmium	0.81	U		P
7440-70-2	Calcium				NR
7440-47-3	Chromium	8.0			P
7440-48-4	Cobalt				NR
7440-50-8	Copper	6.8			P
7439-89-6	Iron				NR
7439-92-1	Lead	43.4			P
7439-95-4	Magnesium				NR
7439-96-5	Manganese				NR
7439-97-6	Mercury	0.16			CV
7440-02-0	Nickel	4.6	U		P
7440-09-7	Potassium				NR
7782-49-2	Selenium	1.0	U		F
7440-22-4	Silver	1.0	B		P
7440-23-5	Sodium				NR
7440-28-0	Thallium	1.0	U		F
7440-62-2	Vanadium				NR
7440-66-6	Zinc	35.1		*	P
5955-70-0	Cyanide				NR

Color Before: BROWN Clarity Before: Texture: MEDIUM

Color After: YELLOW Clarity After: CLEAR Artifacts:

Comments:

CASS10_0-6

FORM I - IN

0000007 ILMO2.1

U.S. EPA - CLP

1

INORGANIC ANALYSES DATA SHEET

EPA SAMPLE NO.

10912X

Lab Name: NYTEST_ENV_INC Contract: 9420800

Lab Code: NYTEST Case No.: 20517 SAS No.: SDG No.: 632

Matrix (soil/water): SOIL Lab Sample ID: 051710

Level (low/med): LOW Date Received: 04/28/94

% Solids: 92.4

Concentration Units (ug/L or mg/kg dry weight): MG/KG

CAS No.	Analyte	Concentration	C	Q	M
7429-90-5	Aluminum				NR
7440-36-0	Antimony	5.6	U		P
7440-38-2	Arsenic	3.8		*	F
7440-39-3	Barium				NR
7440-41-7	Beryllium	0.24	B		P
7440-43-9	Cadmium	0.86	U		P
7440-70-2	Calcium				NR
7440-47-3	Chromium	3.8			P
7440-48-4	Cobalt				NR
7440-50-8	Copper	11.8			P
7439-89-6	Iron				NR
7439-92-1	Lead	5.8		*	F
7439-95-4	Magnesium				NR
7439-96-5	Manganese				NR
7439-97-6	Mercury	0.11			CV
7440-02-0	Nickel	4.9	U		P
7440-09-7	Potassium				NR
7782-49-2	Selenium	1.1	U	W	F
7440-22-4	Silver	1.1	U		P
7440-23-5	Sodium				NR
7440-28-0	Thallium	1.1	U		F
7440-62-2	Vanadium				NR
7440-66-6	Zinc	10.1		*	P
5955-70-0	Cyanide				NR

Color Before: BROWN Clarity Before: Texture: MEDIUM

Color After: YELLOW Clarity After: CLEAR Artifacts:

Comments:

CASS10_9-12

FORM I - IN

0000008 ILMO2.1

U.S. EPA - CLP

1

INORGANIC ANALYSES DATA SHEET

EPA SAMPLE NO.

1106XX

Lab Name: NYTEST_ENV_INC Contract: 9420800

Lab Code: NYTEST Case No.: 20517 SAS No.: SDG No.: 632

Matrix (soil/water): SOIL Lab Sample ID: 051707

Level (low/med): LOW Date Received: 04/28/94

% Solids: 91.9

Concentration Units (ug/L or mg/kg dry weight): MG/KG

CAS No.	Analyte	Concentration	C	Q	M
7429-90-5	Aluminum				NR
7440-36-0	Antimony	5.6	U		P
7440-38-2	Arsenic	6.9	B	*	F
7440-39-3	Barium				NR
7440-41-7	Beryllium	0.82	B		P
7440-43-9	Cadmium	0.86	U		P
7440-70-2	Calcium				NR
7440-47-3	Chromium	6.3			P
7440-48-4	Cobalt				NR
7440-50-8	Copper	7.5			P
7439-89-6	Iron				NR
7439-92-1	Lead	70.4			P
7439-95-4	Magnesium				NR
7439-96-5	Manganese				NR
7439-97-6	Mercury	0.13			CV
7440-02-0	Nickel	6.1	B		P
7440-09-7	Potassium				NR
7782-49-2	Selenium	1.0	U	W	F
7440-22-4	Silver	1.2	B		P
7440-23-5	Sodium				NR
7440-28-0	Thallium	1.0	U		F
7440-62-2	Vanadium				NR
7440-66-6	Zinc	62.7		*	P
5955-70-0	Cyanide				NR

Color Before: BROWN Clarity Before: Texture: MEDIUM

Color After: YELLOW Clarity After: CLEAR Artifacts:

Comments:

CASS11_0-6

AS_AT_4X_DILUTION.

U.S. EPA - CLP

1

INORGANIC ANALYSES DATA SHEET

EPA SAMPLE NO.

11912X

Lab Name: NYTEST_ENV_INC Contract: 9420800

Lab Code: NYTEST Case No.: 20517 SAS No.: SDG No.: 632

Matrix (soil/water): SOIL Lab Sample ID: 051708

Level (low/med): LOW Date Received: 04/28/94

% Solids: 94.0

Concentration Units (ug/L or mg/kg dry weight): MG/KG

CAS No.	Analyte	Concentration	C	Q	M
7429-90-5	Aluminum				NR
7440-36-0	Antimony	5.5	U		P
7440-38-2	Arsenic	6.3		S*	F
7440-39-3	Barium				NR
7440-41-7	Beryllium	0.70	B		P
7440-43-9	Cadmium	0.85	U		P
7440-70-2	Calcium				NR
7440-47-3	Chromium	5.5			P
7440-48-4	Cobalt				NR
7440-50-8	Copper	1.5	B		P
7439-89-6	Iron				NR
7439-92-1	Lead	5.5		*	F
7439-95-4	Magnesium				NR
7439-96-5	Manganese				NR
7439-97-6	Mercury	0.11	U		CV
7440-02-0	Nickel	9.8			P
7440-09-7	Potassium				NR
7782-49-2	Selenium	0.99	U		F
7440-22-4	Silver	1.1	U		P
7440-23-5	Sodium				NR
7440-28-0	Thallium	0.99	U		F
7440-62-2	Vanadium				NR
7440-66-6	Zinc	20.5		*	P
5955-70-0	Cyanide				NR

Color Before: BROWN Clarity Before: Texture: MEDIUM

Color After: YELLOW Clarity After: CLEAR Artifacts:

Comments:

CASS11_9-12

AS_AT_2X_DILUTION.

U.S. EPA - CLP

1

INORGANIC ANALYSES DATA SHEET

EPA SAMPLE NO.

1206XX

Lab Name: NYTEST_ENV_INC Contract: 9420800

Lab Code: NYTEST Case No.: 20517 SAS No.: SDG No.: 632

Matrix (soil/water): SOIL Lab Sample ID: 051704

Level (low/med): LOW Date Received: 04/28/94

% Solids: 92.0

Concentration Units (ug/L or mg/kg dry weight): MG/KG

CAS No.	Analyte	Concentration	C	Q	M
7429-90-5	Aluminum				NR
7440-36-0	Antimony	5.7	U		P
7440-38-2	Arsenic	4.2	B	S*	F
7440-39-3	Barium				NR
7440-41-7	Beryllium	0.71	B		P
7440-43-9	Cadmium	0.87	U		P
7440-70-2	Calcium				NR
7440-47-3	Chromium	5.0			P
7440-48-4	Cobalt				NR
7440-50-8	Copper	3.2	B		P
7439-89-6	Iron				NR
7439-92-1	Lead	18.3		*	F
7439-95-4	Magnesium				NR
7439-96-5	Manganese				NR
7439-97-6	Mercury	0.11	U		CV
7440-02-0	Nickel	6.8	B		P
7440-09-7	Potassium				NR
7782-49-2	Selenium	1.1	U		F
7440-22-4	Silver	1.1	U		P
7440-23-5	Sodium				NR
7440-28-0	Thallium	1.1	U		F
7440-62-2	Vanadium				NR
7440-66-6	Zinc	15.7		*	P
5955-70-0	Cyanide				NR

Color Before: BROWN Clarity Before: Texture: MEDIUM

Color After: YELLOW Clarity After: CLEAR Artifacts:

Comments:

CASS12_0-6

AS,_PB_AT_2X_DILUTION.

U.S. EPA - CLP

1

INORGANIC ANALYSES DATA SHEET

EPA SAMPLE NO.

12912X

Lab Name: NYTEST_ENV_INC Contract: 9420800

Lab Code: NYTEST Case No.: 20517 SAS No.: SDG No.: 632

Matrix (soil/water): SOIL Lab Sample ID: 051705

Level (low/med): LOW Date Received: 04/28/94

% Solids: 93.8

Concentration Units (ug/L or mg/kg dry weight): MG/KG

CAS No.	Analyte	Concentration	C	Q	M
7429-90-5	Aluminum				NR
7440-36-0	Antimony	5.1	U		P
7440-38-2	Arsenic	5.4		S*	F
7440-39-3	Barium				NR
7440-41-7	Beryllium	0.64	B		P
7440-43-9	Cadmium	0.78	U		P
7440-70-2	Calcium				NR
7440-47-3	Chromium	7.0			P
7440-48-4	Cobalt				NR
7440-50-8	Copper	1.2	B		P
7439-89-6	Iron				NR
7439-92-1	Lead	3.8		*	F
7439-95-4	Magnesium				NR
7439-96-5	Manganese				NR
7439-97-6	Mercury	0.11	U		CV
7440-02-0	Nickel	10.2			P
7440-09-7	Potassium				NR
7782-49-2	Selenium	0.98	U		F
7440-22-4	Silver	0.98	U		P
7440-23-5	Sodium				NR
7440-28-0	Thallium	0.98	U		F
7440-62-2	Vanadium				NR
7440-66-6	Zinc	9.5		*	P
5955-70-0	Cyanide				NR

Color Before: BROWN Clarity Before: Texture: MEDIUM

Color After: COLORLESS Clarity After: CLEAR Artifacts:

Comments:

CASS12_9-12

AS_AT_2X_DILUTION.

1A-GC

NYTEST ENVIRONMENTAL INC.

VOLATILE ORGANICS ANALYSIS DATA SHEET

SAMPLE MATRIX:	WATER	SAMPLE ID:	CAMW-1
CONC. LEVEL:	LOW	LAB ID:	1997601
ANALYSIS DATE:	3/13/94	DIL FACTOR:	1.00
		% MOISTURE:	NA

CMPD #	CAS Number	VOLATILE COMPOUNDS	UG/L
1	74-87-3	Chloromethane	1.0 U.
2	74-83-9	Bromomethane	1.0 U.
3	75-01-4	Vinyl Chloride	1.0 U.
4	75-00-3	Chloroethane	1.0 U.
5	75-09-2	Methylene Chloride	1.0 U.
6	75-35-4	1,1-Dichloroethene	1.0 U.
7	75-34-3	1,1-Dichloroethane	1.0 U.
8	156-60-5	1,2-Dichloroethene (trans)	1.0 U.
9	67-66-3	Chloroform	1.0 U.
10	107-06-2	1,2-Dichloroethane	1.0 U.
11	71-55-6	1,1,1-Trichloroethane	1.0 U.
12	56-23-5	Carbon Tetrachloride	1.0 U.
13	75-27-4	Bromodichloromethane	1.0 U.
14	78-87-5	1,2-Dichloropropane	1.0 U.
15	10061-01-5	cis-1,3-Dichloropropene	1.0 U.
16	79-01-6	Trichloroethene	1.0 U.
17	124-48-1	Dibromochloromethane	1.0 U.
18	79-00-5	1,1,2-Trichloroethane	1.0 U.
19	71-43-2	Benzene	1.0 U.
20	10061-02-6	Trans-1,3-Dichloropropene	1.0 U.
21	127-18-4	Tetrachloroethene	1.0 U.
22	79-34-5	1,1,2,2-Tetrachloroethane	1.0 U.
23	108-88-3	Toluene	1.0 U.
24	108-90-7	Chlorobenzene	1.0 U.
25	100-41-4	Ethylbenzene	1.0 U.
26	1330-20-7	Xylene (total)	1.0 U.
27	110-75-8	2-Chloroethylvinylether	20.0 U.
28	75-71-8	Dichlorodifluoromethane	1.0 U.
29	75-69-4	Trichlorofluoromethane	1.0 U.
30	95-50-1	1,2-Dichlorobenzene	1.0 U.
31	541-73-1	1,3-Dichlorobenzene	1.0 U.
32	106-46-7	1,4-Dichlorobenzene	1.0 U.
33	75-25-2	Bromoform	1.0 U.

1A-GC

NYTEST ENVIRONMENTAL INC.

VOLATILE ORGANICS ANALYSIS DATA SHEET

SAMPLE MATRIX:	WATER	SAMPLE ID:	CAMW-2
CONC. LEVEL:	LOW	LAB ID:	1997604
ANALYSIS DATE:	3/10/94	DIL FACTOR:	1.00
		% MOISTURE:	NA

CMPD #	CAS Number	VOLATILE COMPOUNDS	UG/L
1	74-87-3	Chloromethane	1.0 U.
2	74-83-9	Bromomethane	1.0 U.
3	75-01-4	Vinyl Chloride	1.0 U.
4	75-00-3	Chloroethane	1.0 U.
5	75-09-2	Methylene Chloride	1.0 U.
6	75-35-4	1,1-Dichloroethene	1.0 U.
7	75-34-3	1,1-Dichloroethane	1.0 U.
8	156-60-5	1,2-Dichloroethene (trans)	1.0 U.
9	67-66-3	Chloroform	1.0 U.
10	107-06-2	1,2-Dichloroethane	1.0 U.
11	71-55-6	1,1,1-Trichloroethane	1.0 U.
12	56-23-5	Carbon Tetrachloride	1.0 U.
13	75-27-4	Bromodichloromethane	1.0 U.
14	78-87-5	1,2-Dichloropropane	1.0 U.
15	10061-01-5	cis-1,3-Dichloropropene	1.0 U.
16	79-01-6	Trichloroethene	1.0 U.
17	124-48-1	Dibromochloromethane	1.0 U.
18	79-00-5	1,1,2-Trichloroethane	1.0 U.
19	71-43-2	Benzene	1.0 U.
20	10061-02-6	Trans-1,3-Dichloropropene	1.0 U.
21	127-18-4	Tetrachloroethene	1.0 U.
22	79-34-5	1,1,2,2-Tetrachloroethane	1.0 U.
23	108-88-3	Toluene	1.0 U.
24	108-90-7	Chlorobenzene	1.0 U.
25	100-41-4	Ethylbenzene	1.0 U.
26	1330-20-7	Xylene (total)	1.0 U.
27	110-75-8	2-Chloroethylvinylether	20.0 U.
28	75-71-8	Dichlorodifluoromethane	1.0 U.
29	75-69-4	Trichlorofluoromethane	1.0 U.
30	95-50-1	1,2-Dichlorobenzene	1.0 U.
31	541-73-1	1,3-Dichlorobenzene	1.0 U.
32	106-46-7	1,4-Dichlorobenzene	1.0 U.
33	75-25-2	Bromoform	1.0 U.

0000013

1A-GC

NYTEST ENVIRONMENTAL INC.

VOLATILE ORGANICS ANALYSIS DATA SHEET

SAMPLE MATRIX: WATER
CONC. LEVEL: LOW
ANALYSIS DATE: 3/10/94

SAMPLE ID: 10628
LAB ID: 1997605
DIL FACTOR: 1.00
% MOISTURE: NA

UG/L

CMPD #	CAS Number	VOLATILE COMPOUNDS	
1	74-87-3	Chloromethane	1.0 U.
2	74-83-9	Bromomethane	1.0 U.
3	75-01-4	Vinyl Chloride	1.0 U.
4	75-00-3	Chloroethane	1.0 U.
5	75-09-2	Methylene Chloride	1.0 U.
6	75-35-4	1,1-Dichloroethene	1.0 U.
7	75-34-3	1,1-Dichloroethane	1.0 U.
8	156-60-5	1,2-Dichloroethene (trans)	1.0 U.
9	67-66-3	Chloroform	1.0 U.
10	107-06-2	1,2-Dichloroethane	1.0 U.
11	71-55-6	1,1,1-Trichloroethane	1.0 U.
12	56-23-5	Carbon Tetrachloride	1.0 U.
13	75-27-4	Bromodichloromethane	1.0 U.
14	78-87-5	1,2-Dichloropropane	1.0 U.
15	10061-01-5	cis-1,3-Dichloropropene	1.0 U.
16	79-01-6	Trichloroethene	1.0 U.
17	124-48-1	Dibromochloromethane	1.0 U.
18	79-00-5	1,1,2-Trichloroethane	1.0 U.
19	71-43-2	Benzene	1.0 U.
20	10061-02-6	Trans-1,3-Dichloropropene	1.0 U.
21	127-18-4	Tetrachloroethene	1.0 U.
22	79-34-5	1,1,2,2-Tetrachloroethane	1.0 U.
23	108-88-3	Toluene	1.0 U.
24	108-90-7	Chlorobenzene	1.0 U.
25	100-41-4	Ethylbenzene	1.0 U.
26	1330-20-7	Xylene (total)	1.0 U.
27	110-75-8	2-Chloroethylvinylether	20.0 U.
28	75-71-8	Dichlorodifluoromethane	1.0 U.
29	75-69-4	Trichlorofluoromethane	1.0 U.
30	95-50-1	1,2-Dichlorobenzene	1.0 U.
31	541-73-1	1,3-Dichlorobenzene	1.0 U.
32	106-46-7	1,4-Dichlorobenzene	1.0 U.
33	75-25-2	Bromoform	1.0 U.

1AP 624

NYTEST ENVIRONMENTAL INC.

VOLATILE ORGANICS ANALYSIS DATA SHEET

SAMPLE MATRIX: WATER
CONC. LEVEL: LOW
ANALYSIS DATE: 3/11/94

SAMPLE ID: GM195
LAB ID: 2002401
DIL FACTOR: 1.00
% MOISTURE: NA

CMPD #	CAS Number	VOLATILE COMPOUNDS	UG/L
1	74-87-3	Chloromethane	10.0 U.
2	74-83-9	Bromomethane	10.0 U.
3	75-01-4	Vinyl Chloride	10.0 U.
4	75-00-3	Chloroethane	10.0 U.
5	75-09-2	Methylene Chloride	2.0 JB
6	75-35-4	1,1-Dichloroethene	5.0 U.
7	75-34-3	1,1-Dichloroethane	5.0 U.
8	156-60-5	Trans-1,2-Dichloroethene	5.0 U.
9	67-66-3	Chloroform	5.0 U.
10	107-06-2	1,2-Dichloroethane	5.0 U.
11	71-55-6	1,1,1-Trichloroethane	5.0 U.
12	56-23-5	Carbon Tetrachloride	5.0 U.
13	75-27-4	Bromodichloromethane	5.0 U.
14	78-87-5	1,2-Dichloropropane	5.0 U.
15	10061-01-5	cis-1,3-Dichloropropene	5.0 U.
16	79-01-6	Trichloroethene	5.0 U.
17	124-48-1	Dibromochloromethane	5.0 U.
18	79-00-5	1,1,2-Trichloroethane	5.0 U.
19	71-43-2	Benzene	5.0 U.
20	10061-02-6	Trans-1,3-Dichloropropene	5.0 U.
21	75-25-2	Bromoform	5.0 U.
22	127-18-4	Tetrachloroethene	5.0 U.
23	79-34-5	1,1,2,2-Tetrachloroethane	5.0 U.
24	108-88-3	Toluene	5.0 U.
25	108-90-7	Chlorobenzene	5.0 U.
26	100-41-4	Ethylbenzene	5.0 U.
27	107-02-8	Acrolein	100.0 U.
28	107-13-1	Acrylonitrile	100.0 U.
29	110-75-8	2-Chloroethylvinylether	10.0 U.
30	75-69-4	Trichlorofluoromethane	10.0 U.
31		Dichlorobenzene (total)	30.0 U.

0000010

1E

EPA SAMPLE NO.

GM195

VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

Lab Name: NYTEST ENV INC Contract: 9420800

Lab Code: NYTEST Case No.: 20024 SAS No.: _____ SDG No.: _____

Matrix: (soil/water) WATER Lab Sample ID: 2002401

Sample wt/vol: 5.00 (g/mL) ML Lab File ID: N5489

Level: (low/med) LOW Date Received: 03/10/94

% Moisture: not dec. ____ Date Analyzed: 03/11/94

Column (pack/cap) CAP Dilution Factor: 1.0

Number TICs found: 2

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

	CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1.		UNKNOWN SILOXANE	17.11	16	J
2.		UNKNOWN SILOXANE	21.30	7.0	J

0000011

1A-GC

NYTEST ENVIRONMENTAL INC.

VOLATILE ORGANICS ANALYSIS DATA SHEET

SAMPLE MATRIX: WATER | SAMPLE ID: FIELD BLK

CONC. LEVEL: LOW | LAB ID: 1997606

ANALYSIS DATE: 3/9/94 | DIL FACTOR: 1.00

% MOISTURE: NA

UG/L

CMPD #	CAS Number	VOLATILE COMPOUNDS	
1	74-87-3	Chloromethane	1.0 U.
2	74-83-9	Bromomethane	1.0 U.
3	75-01-4	Vinyl Chloride	1.0 U.
4	75-00-3	Chloroethane	1.0 U.
5	75-09-2	Methylene Chloride	1.0 U.
6	75-35-4	1,1-Dichloroethene	1.0 U.
7	75-34-3	1,1-Dichloroethane	1.0 U.
8	156-60-5	1,2-Dichloroethene (trans)	1.0 U.
9	67-66-3	Chloroform	1.0 U.
10	107-06-2	1,2-Dichloroethane	1.0 U.
11	71-55-6	1,1,1-Trichloroethane	1.0 U.
12	56-23-5	Carbon Tetrachloride	1.0 U.
13	75-27-4	Bromodichloromethane	1.0 U.
14	78-87-5	1,2-Dichloropropane	1.0 U.
15	10061-01-5	cis-1,3-Dichloropropene	1.0 U.
16	79-01-6	Trichloroethene	1.0 U.
17	124-48-1	Dibromochloromethane	1.0 U.
18	79-00-5	1,1,2-Trichloroethane	1.0 U.
19	71-43-2	Benzene	1.0 U.
20	10061-02-6	Trans-1,3-Dichloropropene	1.0 U.
21	127-18-4	Tetrachloroethene	1.0 U.
22	79-34-5	1,1,2,2-Tetrachloroethane	1.0 U.
23	108-88-3	Toluene	1.0 U.
24	108-90-7	Chlorobenzene	1.0 U.
25	100-41-4	Ethylbenzene	1.0 U.
26	1330-20-7	Xylene (total)	1.0 U.
27	110-75-8	2-Chloroethylvinylether	20.0 U.
28	75-71-8	Dichlorodifluoromethane	1.0 U.
29	75-69-4	Trichlorofluoromethane	1.0 U.
30	95-50-1	1,2-Dichlorobenzene	1.0 U.
31	541-73-1	1,3-Dichlorobenzene	1.0 U.
32	106-46-7	1,4-Dichlorobenzene	1.0 U.
33	75-25-2	Bromoform	1.0 U.

REPORT OF ANALYSIS

Log In No.: 19976

We find as follows:

Results in ppm:

Sample Identification		Parameter(s)	
		ETHYLENE GLYCOL	PROPYLENE GLYCOL
1997601	CAMW-1	<10.0	<10.0
1997604	CAMW-2	<10.0	<10.0
1997605	10628	<10.0	<10.0
1997606	FIELD BLK	<10.0	<10.0

0000018

REPORT OF ANALYSIS

Log In No.: 20024

We find as follows:

Results in ppm:

Sample Identification		Parameter(s)	
		Ethylene Glycol	Propylene Glycol
GM195	2002401	<10.0	<10.0

0000013

REPORT OF ANALYSIS

Log In No.: 19976

We find as follows:

Results in ppm, mg/L Matrix: WATER

Parameter(s)	Sample Identification			
	CAMW-1 (1997601)	CAMW-2 (1997604)	10628 (1997605)	FIELD BLK (1997606)
Gasoline	10 U	10 U	10 U	10 U
TPH (as Gasoline)	ND	ND	ND	ND
Kerosene	10 U	10 U	10 U	10 U
TPH (as Kerosene)	ND	ND	ND	ND
#2 Fuel Oil	10 U	10 U	10 U	10 U
TPH (as #2 Fuel Oil)	ND	ND	ND	ND
#6 Fuel Oil	10 U	10 U	10 U	10 U
TPH (as #6 Fuel Oil)	ND	ND	ND	ND
Lubricating Oil	10 U	10 U	10 U	10 U
TPH (as Lubricating Oil)	ND	ND	ND	ND

NA = Not Applicable
ND = Not Detected

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

0000017

REPORT OF ANALYSIS

Log In No.: 20024

We find as follows:

Results in ppm, mg/L

Matrix: WATER

Parameter(s)	Sample Identification GM195 (2002401)
Gasoline	10 U
TPH (as Gasoline)	ND
Kerosene	10 U
TPH (as Kerosene)	ND
#2 Fuel Oil	10 U
TPH (as #2 Fuel Oil)	ND
#6 Fuel Oil	10 U
TPH (as #6 Fuel Oil)	ND
Lubricating Oil	10 U
TPH (as Lubricating Oil)	ND

NA = Not Applicable
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.

0000012

U.S. EPA - CLP

1

INORGANIC ANALYSES DATA SHEET

EPA SAMPLE NO.

CAMW-1

ab Name: NYTEST_ENV_INC. Contract: 9420800

b Code: NYTEST Case No.: 19976 SAS No.: SDG No.: 19976

atrix (soil/water): WATER Lab Sample ID: 397601

vel (low/med): LOW Date Received: 03/04/94

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	56.0	U		P
7440-38-2	Arsenic	5.0	U	*	F
7440-41-7	Beryllium	1.0	U		P
7440-43-9	Cadmium	4.0	U		P
7440-47-3	Chromium	12.5		*	P
7440-50-8	Copper	12.0	U		P
7439-92-1	Lead	3.0	U	*	F
7439-97-6	Mercury	0.20	U		CV
7440-02-0	Nickel	24.0	U		P
7782-49-2	Selenium	5.0	U		F
7440-22-4	Silver	6.0	U		P
7440-28-0	Thallium	5.0	U		F
7440-66-6	Zinc	10.7	B		P

olor Before: COLORLESS Clarity Before: CLEAR Texture:

lor After: COLORLESS Clarity After: CLEAR Artifacts:

mments:

CAMW-1 TOTAL

U.S. EPA - CLP

1

INORGANIC ANALYSES DATA SHEET

EPA SAMPLE NO.

DCAMW-1

ab Name: NYTEST_ENV_INC. Contract: 9420800

) Code: NYTEST Case No.: 19976 SAS No.: SDG No.: 19976

trix (soil/water): WATER Lab Sample ID: D997601

el (low/med): LOW Date Received: 03/04/94

olids: 0.0

Concentration Units (ug/L or mg/kg dry weight): UG/L

CAS No.	Analyte	Concentration	C	Q	M
7440-36-0	Antimony	56.0	U		P
7440-38-2	Arsenic	5.0	U		F
7440-41-7	Beryllium	1.5	B		P
7440-43-9	Cadmium	4.0	U		P
7440-47-3	Chromium	9.0	U		P
7440-50-8	Copper	12.0	U		P
7439-92-1	Lead	3.0	U		F
7439-97-6	Mercury	0.20	U		CV
7440-02-0	Nickel	24.0	U		P
7782-49-2	Selenium	5.0	U		F
7440-22-4	Silver	6.0	U	N	P
7440-28-0	Thallium	5.0	U		F
7440-66-6	Zinc	6.0	U		P

r Before: COLORLESS Clarity Before: CLEAR Texture:

After: COLORLESS Clarity After: CLEAR Artifacts:

ents:

MW-1 DISSOLVED

U.S. EPA - CLP

1

INORGANIC ANALYSES DATA SHEET

EPA SAMPLE NO.

CAMW-2

ab Name: NYTEST_ENV_INC._____ Contract: 9420800___

b Code: NYTEST Case No.: 19976_ SAS No.: _____ SDG No.: 19976_

trix (soil/water): WATER Lab Sample ID: 997604____

evel (low/med): LOW__ Date Received: 03/04/94

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_	56.0	U		P_
7440-38-2	Arsenic__	5.0	U	*	F_
7440-41-7	Beryllium	2.5	B		P_
7440-43-9	Cadmium__	4.0	U		P_
7440-47-3	Chromium_	73.8		*	P_
7440-50-8	Copper___	55.4			P_
7439-92-1	Lead_____	22.4		*	F_
7439-97-6	Mercury__	0.20	U		CV
7440-02-0	Nickel___	24.0	U		P_
7782-49-2	Selenium_	5.0	U		F_
7440-22-4	Silver___	6.0	U		P_
7440-28-0	Thallium_	5.0	U		F_
7440-66-6	Zinc_____	167			P_

lor Before: BROWN____ Clarity Before: TURBID Texture: _____

olor After: P._YELLOW Clarity After: CLEAR_ Artifacts: _____

mments:

CAMW-2____TOTAL_____

1

INORGANIC ANALYSES DATA SHEET

EPA SAMPLE NO.

DCAMW-2

Lab Name: NYTEST_ENV_INC. Contract: 9420800

Lab Code: NYTEST Case No.: 19976 SAS No.: SDG No.: 19976

Matrix (soil/water): WATER Lab Sample ID: D397604

Level (low/med): LOW Date Received: 03/04/94

% 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	56.0	U		P
7440-38-2	Arsenic	5.0	U		F
7440-41-7	Beryllium	1.0	U		P
7440-43-9	Cadmium	4.0	U		P
7440-47-3	Chromium	11.2			P
7440-50-8	Copper	12.0	U		P
7439-92-1	Lead	3.0	U		F
7439-97-6	Mercury	0.20	U		CV
7440-02-0	Nickel	24.0	U		P
7782-49-2	Selenium	5.0	U		F
7440-22-4	Silver	6.0	U	N	P
7440-28-0	Thallium	5.0	U		F
7440-66-6	Zinc	13.5	B		P

Color Before: COLORLESS Clarity Before: CLEAR Texture:

Color After: COLORLESS Clarity After: CLEAR Artifacts:

Comments:

DCAMW-2 DISSOLVED

1

INORGANIC ANALYSES DATA SHEET

EPA SAMPLE NO.

10628X

ab Name: NYTEST_ENV_INC._____ Contract: 9420800___

b Code: NYTEST Case No.: 19976_ SAS No.: _____ SDG No.: 19976_

atrix (soil/water): WATER Lab Sample ID: 907605____

vel (low/med): LOW__ Date Received: 03/04/94

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_	56.0	U		P_
7440-38-2	Arsenic__	5.0	U	*	F_
7440-41-7	Beryllium	1.0	U		P_
7440-43-9	Cadmium__	4.0	U		P_
7440-47-3	Chromium_	37.4		*	P_
7440-50-8	Copper___	83.0			P_
7439-92-1	Lead____	296		*	F_
7439-97-6	Mercury__	0.63			CV
7440-02-0	Nickel___	24.0	U		P_
7782-49-2	Selenium_	5.0	U		F_
7440-22-4	Silver___	6.0	U		P_
7440-28-0	Thallium_	5.0	U	W	F_
7440-66-6	Zinc____	252			P_

olor Before: BROWN____ Clarity Before: TURBID Texture: _____

lor After: P._YELLOW Clarity After: CLEAR_ Artifacts: _____

mments:

10628____TOTAL_____

LEAD_AT_A_10X_DILUTION_____

1

INORGANIC ANALYSES DATA SHEET

EPA SAMPLE NO.

D10628X

Lab Name: NYTEST_ENV_INC. Contract: 9420800

Lab Code: NYTEST Case No.: 19976 SAS No.: SDG No.: 19976

Matrix (soil/water): WATER Lab Sample ID: D997605

Level (low/med): LOW Date Received: 03/04/94

% 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	56.0	U		P
7440-38-2	Arsenic	5.0	U		F
7440-41-7	Beryllium	1.0	U		P
7440-43-9	Cadmium	4.0	U		P
7440-47-3	Chromium	9.0	U		P
7440-50-8	Copper	15.7	B		P
7439-92-1	Lead	34.4			F
7439-97-6	Mercury	0.20	U		CV
7440-02-0	Nickel	24.0	U		P
7782-49-2	Selenium	5.0	U		F
7440-22-4	Silver	6.0	U	N	P
7440-28-0	Thallium	5.0	U	W	F
7440-66-6	Zinc	47.8			P

Color Before: COLORLESS Clarity Before: CLEAR Texture:

Color After: COLORLESS Clarity After: CLEAR Artifacts:

Comments:

10628 DISSOLVED

1

INORGANIC ANALYSES DATA SHEET

EPA SAMPLE NO.

GM195X

Lab Name: NYTEST_ENV_INC._____ Contract: 9420800___

Lab Code: NYTEST Case No.: 19976_ SAS No.: _____ SDG No.: 19976_

Matrix (soil/water): WATER Lab Sample ID: 002401____

Level (low/med): LOW__ Date Received: 03/04/94

% 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_	56.0	U		P_
7440-38-2	Arsenic__	5.0	U	*	F_
7440-41-7	Beryllium	1.0	U		P_
7440-43-9	Cadmium__	4.0	U		P_
7440-47-3	Chromium_	9.0	U	*	P_
7440-50-8	Copper___	12.0	U		P_
7439-92-1	Lead____	3.0	U	*	F_
7439-97-6	Mercury__	0.20	U		CV
7440-02-0	Nickel___	24.0	U		P_
7782-49-2	Selenium_	5.0	U		F_
7440-22-4	Silver___	6.0	U		P_
7440-28-0	Thallium_	50.0	U		F_
7440-66-6	Zinc_____	10.7	B		P_

Color Before: COLORLESS Clarity Before: CLEAR_ Texture: _____

Color After: COLORLESS Clarity After: CLEAR_ Artifacts: _____

Comments:

GM195_____THALIUM_AT_A_10X_DILUTION_____

U.S. EPA - CLP

1

INORGANIC ANALYSES DATA SHEET

EPA SAMPLE NO.

FLDBLK

ab Name: NYTEST_ENV_INC._____ Contract: 9420800___

b Code: NYTEST Case No.: 19976_ SAS No.: _____ SDG No.: 19976_

atrix (soil/water): WATER Lab Sample ID: 997606____

vel (low/med): LOW__ Date Received: 03/04/94

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_	56.0	U		P_
7440-38-2	Arsenic__	5.0	U	*	F_
7440-41-7	Beryllium	1.0	U		P_
7440-43-9	Cadmium__	4.0	U		P_
7440-47-3	Chromium_	9.0	U	*	P_
7440-50-8	Copper___	12.0	U		P_
7439-92-1	Lead____	3.0	U	*	F_
7439-97-6	Mercury__	0.20	U		CV
7440-02-0	Nickel___	24.0	U		P_
7782-49-2	Selenium_	5.0	U		F_
7440-22-4	Silver___	6.0	U		P_
7440-28-0	Thallium_	5.0	U		F_
7440-66-6	Zinc____	6.0	U		P_

olor Before: COLORLESS Clarity Before: CLEAR_ Texture: _____

lor After: COLORLESS Clarity After: CLEAR_ Artifacts: _____

mments:

FIELD_BLK__TOTAL_____

FORM I - IN

ILMO2.1

0000013

U.S. EPA - CLP

1

INORGANIC ANALYSES DATA SHEET

EPA SAMPLE NO.

DFLDBLK

ab Name: NYTEST_ENV_INC. Contract: 9420800

o Code: NYTEST Case No.: 19976 SAS No.: SDG No.: 19976

atrix (soil/water): WATER Lab Sample ID: D997606

vel (low/med): LOW Date Received: 03/04/94

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	56.0	U		P
7440-38-2	Arsenic	5.0	U		F
7440-41-7	Beryllium	1.0	U		P
7440-43-9	Cadmium	4.0	U		P
7440-47-3	Chromium	9.0	U		P
7440-50-8	Copper	12.0	U		P
7439-92-1	Lead	3.0	U		F
7439-97-6	Mercury	0.20	U		CV
7440-02-0	Nickel	24.0	U		P
7782-49-2	Selenium	5.0	U		F
7440-22-4	Silver	6.0	U	N	P
7440-28-0	Thallium	5.0	U		F
7440-66-6	Zinc	6.0	U		P

lor Before: COLORLESS Clarity Before: CLEAR Texture:

or After: COLORLESS Clarity After: CLEAR Artifacts:

mments:

IELD_BLK__DISSOLVED