BARNES

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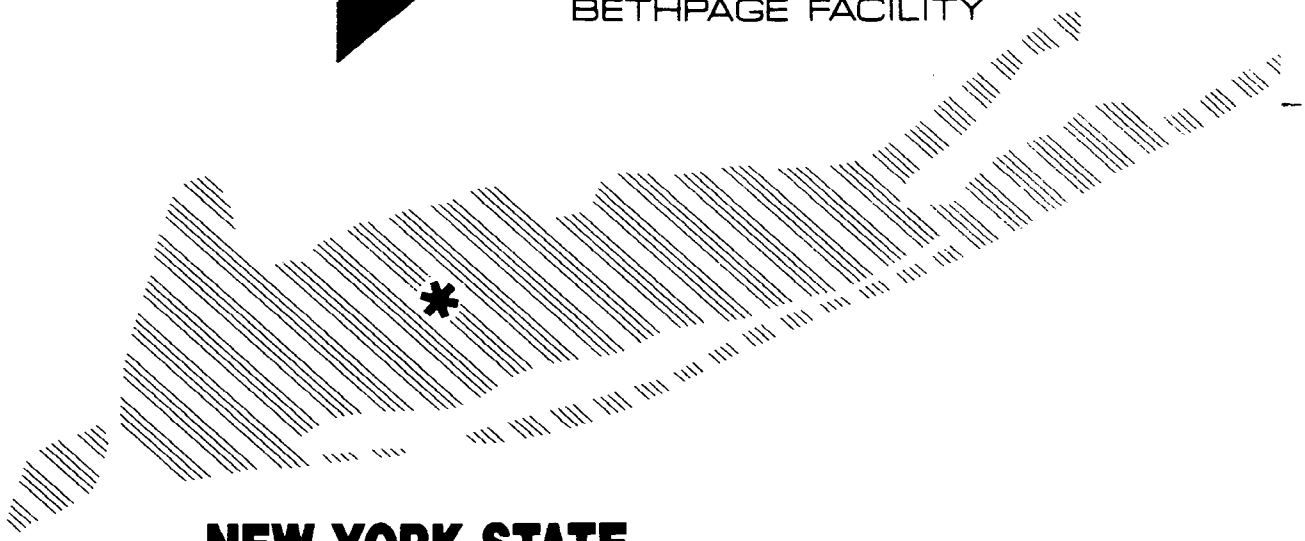
GRUMMAN AEROSPACE CORPORATION
BETHPAGE FACILITY



NEW YORK STATE SITE REGISTRY DELISTING PETITION SITE 6 (RUNWAY) HICKSVILLE, NEW YORK

GRUMMAN AEROSPACE CORPORATION
BETHPAGE, NEW YORK

Dvirka and Bartilucci
Consulting Engineers

FEBRUARY 1993

Grumman Aerospace Corporation
Bethpage, New York 11714-3582

February 26, 1993

Thomas Jorling, Commissioner
New York State Department of
Environmental Conservation
50 Wolf Road
Albany, NY 12233-7010

Re: New York State Site Registry Delisting Petition - Site 6 (Runway), Hicksville, New York

Dear Mr. Jorling:

I am pleased to submit for your review three copies of the enclosed document, entitled "New York State Site Registry Delisting Petition, Site 6 (Runway), Hicksville, New York," for the Grumman Aerospace Corporation property located off South Oyster Bay Road 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 majority of 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 map depicting the "superfund" site (Site 1-30-003) is warranted.

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

Very truly yours,

J. Ohlmann

John Ohlmann
Director

JO/RR/mbf
Enclosure
cc/encl.:
Robert Marino (NYSDEC)
0503a/64
1167

GRUMMAN AEROSPACE CORPORATION

NEW YORK STATE
SITE REGISTRY DELISTING PETITION
SITE 6 (RUNWAY)
HICKSVILLE, NEW YORK

PREPARED BY
DVIRKA AND BARTILUCCI CONSULTING ENGINEERS
SYOSSET, NEW YORK

FEBRUARY 1993

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GRUMMAN AEROSPACE CORPORATION

NEW YORK STATE
SITE REGISTRY DELISTING PETITION
SITE 6 (RUNWAY)
HICKSVILLE, NEW YORK

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Section 1

NYSDEC 046063

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 runway (Site 6), hereafter referred to as "the site," from the New York State Registry of Superfund Sites (Site Code 1-30-003). The site is located to the south of the intersection of the LIRR and the South Oyster Bay Road Extension in Hicksville, New York. Information presented in this report has been compiled based upon a site inspection undertaken on May 29, 1992; an evaluation of available aerial photographs (1950-1988); along with interviews of various Grumman personnel. File searches conducted at Grumman Aerospace Corporation, Nassau County Department of Health (NCDOH) and the Town of Oyster Bay did not reveal any relevant information of environmental significance. 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 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.

Table 1-1

DELISTING PETITION INFORMATION

	Requirement	Response
1.	Site Name	Grumman, Bethpage
	Owner	Grumman Aerospace Corporation
2.	Site Number	1-30-003
3.	Site Location	South Side of LIRR/ South Oyster Bay Road Extension Intersection Hicksville, Nassau County, NY 11801
4.	Size	Approx. 33 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

Section 2

NYSDEC 046066

2.0 SITE EVALUATION

Location: South Side of LIRR/South Oyster Bay Road Extension Intersection
Hicksville, New York 11801

Section: 46

Block: 323

Lots: 16A (Partial), 78B, 79, 80, 81, 82, 83, 84B, 85, 86, 87, 88 and 223 (Partial)

Zoning: Industrial H

Land Use(s): Runway/Heliport

Plot Size: Approx. 33 acres

Grumman Building: N/A

Building Area: N/A

2.1 Site History

As is apparent from a review of the earliest available aerial photograph of the site taken in 1950 (see Appendix C), only a portion of the existing runway was in existence at that date and the majority of the site and surrounding properties were undeveloped. The runway was extended to the northeast to its present configuration between 1950 and 1955. The site remains relatively unchanged from 1955 to 1962. Between 1962 and 1969, there appears to be the addition of a parking lot (Parking Area 25E) in the northwestern portion of the site in addition to the widening of existing and construction of new on-site roadways adjacent to the runway. The site then appears to remain relatively unchanged from 1969 to the date of the latest available aerial photograph taken on March 8, 1988. A May 29, 1992 site inspection did not identify any apparent on-site changes since the date of the March 8, 1988 aerial. Interviews with Grumman Aerospace Corporation personnel indicate that all aircraft maintenance and deicing procedures took place downgradient of the site in the vicinity of Plant 4, 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.

Grumman utility maps indicate that two abandoned domestic waste lines originating from the location of a former wastewater treatment plant, located off-site to the west of the Long Island Rail Road/South Oyster Bay Road Extension intersection, and a "steam tunnel" from the cogeneration plant, located to the south of the runway, traverse the site. In addition, a review of Grumman utility maps and available aerial photographs revealed that the southeastern portion of the site was once utilized as a sanitary septic system/leaching field. According to interviews with

Grumman Aerospace Corporation personnel and a review of Grumman utility maps, this system was tied into Plant 2 and was utilized until this plant was connected to the Nassau County sewer system in the 1970s. Domestic waste lines from the off-site wastewater treatment facility also run adjacent to this septic system, but do not appear to be connected. The sanitary septic system/leaching field is no longer apparent on the 1988 aerial, and the May 29, 1992 site inspection only revealed the presence of manhole covers over the former leaching pools of the system.

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. Private and/or commercial aircraft are permitted to use the runway for emergency purposes only. The entire site is zoned Industrial H and comprises approximately 33 acres. The site is surrounded by commercial development with areas of medium to high density residential development existing adjacent to the eastern corner of the site. 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.

The only permanent on-site structures identified by a review of Grumman utility maps, available aerial photographs (1950-1988) and the May 29, 1992 site inspection were a vacant guard booth, thrust deflectors along the perimeter of the runway, lighting fixtures, a NOAA survey marker and the Imhof tank and leaching pools associated with the former sanitary septic system. The southeastern portion of the site contains a network of abandoned leaching pools which were closed after Plant 2 was connected to the Nassau County sewer system. One manhole cover was opened during the May 29, 1992 site inspection and it was determined that the leaching pool was backfilled with sand. Grumman utility maps indicate that this leaching field comprises approximately two acres and contains approximately 120 "backfilled" leaching pools. The only existing evidence of the former sanitary septic system/leaching field is a network of manhole covers overlying the leaching pools. No areas of stressed vegetation were observed during the May 29, 1992 site inspection.

The site is generally level with good drainage. Catch basins are located throughout the site. The Soil Conservation Service (2/87) classifies the runway and Parking Area 25E 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 49 feet in the southern portion of the site and approximately 57 feet in the northern portion of the site.

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. 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 approximately 400 feet to the southeast of this area, and is

likely removed from any significant adverse conditions present at the Hooker Chemical/Ruco Polymer site. According to recent communication with the EPA, the RI report was approved on December 7, 1992. The EPA expects to have a Feasibility Study completed by May 1993. A Record of Decision on a Proposed Remedial Action Plan is targeted for June 30, 1993.

Section 3

NYSDEC 046071

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 installation of three soil borings, installation of four monitoring wells, sampling of groundwater and soil, and air monitoring.

3.1 Monitoring Well Installation

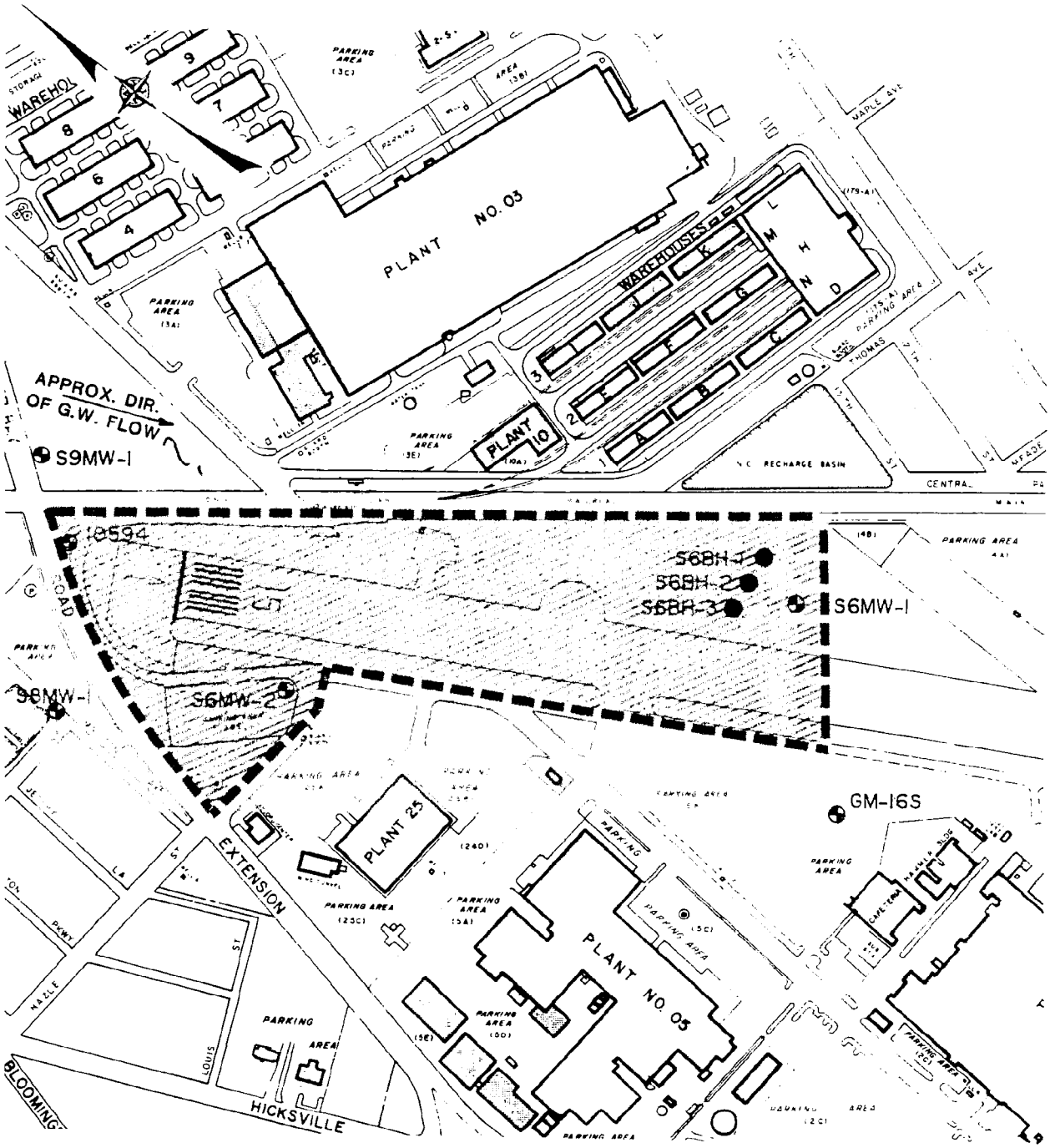
An existing USGS well (NYS well ID #10594), located adjacent to the northern boundary of the site, was utilized as an upgradient well, and an existing Grumman Aerospace Corporation monitoring well (GM-16S), located to the south of the site, was utilized as a downgradient well. In addition, shallow upgradient monitoring wells were installed to the north and northwest of the site and shallow downgradient monitoring wells were installed in the eastern corner of Parking Area 25E and in the southeastern portion of the site.

Figure 3-1 presents the locations of these wells, and Figures 3-2 through 3-5 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 and casing with threaded joints. The bottom of the 15-foot, 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
S6MW-1	60 ft	48.5 ft
S6MW-2	70 ft	57 ft
S8MW-1	65 ft	55 ft
S9MW-1	71 ft	59.4 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 grouting with 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.

NYSDEC 046072



LEGEND

- SOIL BORING LOCATION
- MONITORING WELL LOCATION

200 0 200

Source: GAC GENERAL PLAN

GRUMMAN AEROSPACE CORPORATION
BETHPAGE FACILITY
SITE 6 (RUNWAY)

WELL AND BORING LOCATIONS

Dvirka and Bartilucci CONSULTING ENGINEERS

FIGURE 3 - 1

Dvirka and Bartilucci CONSULTING ENGINEERS

WELL CONSTRUCTION LOG

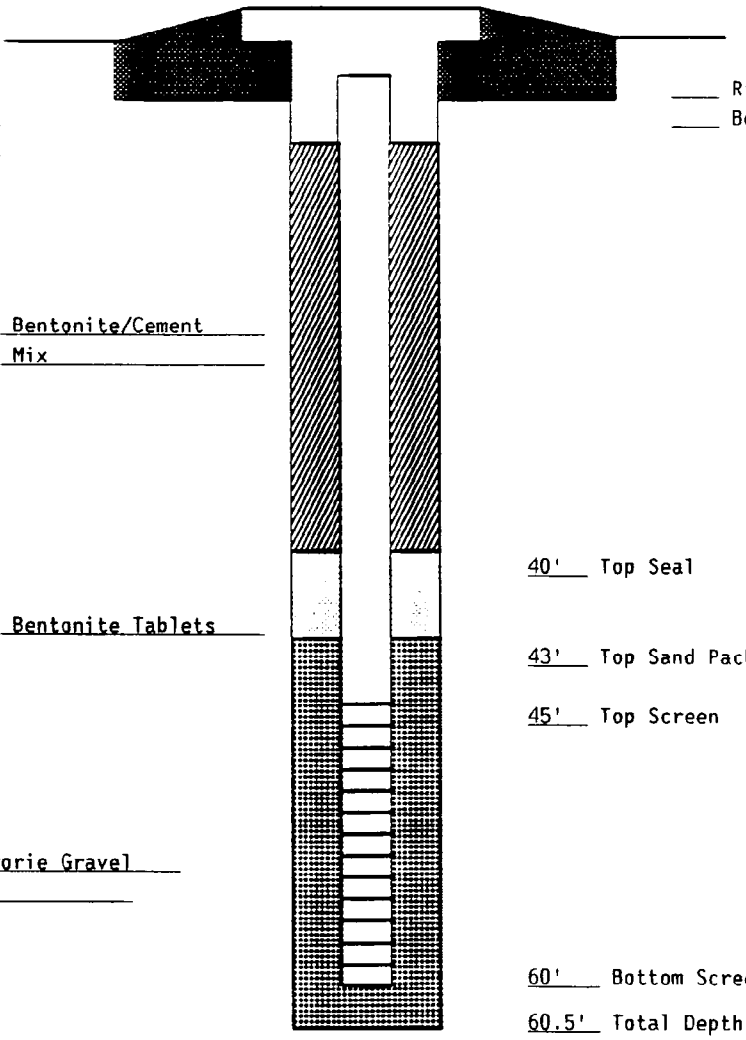
SITE Grumman Aerospace Corporation JOB NO. 1167 WELL NO. S6-MW-1

TOTAL DEPTH 60' SURFACE ELEV. _____ TOP RISER ELEV. _____

WATER LEVELS (DEPTH, DATE, TIME) 48.5' DATE INSTALLED 8/5/92

RISER DIA 2" MATERIAL PVC LENGTH 45'
SCREEN DIA 2" MATERIAL PVC LENGTH 15' SLOT SIZE 0.010"

SCHEMATIC



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Dvirka and Bartilucci CONSULTING ENGINEERS

WELL CONSTRUCTION LOG

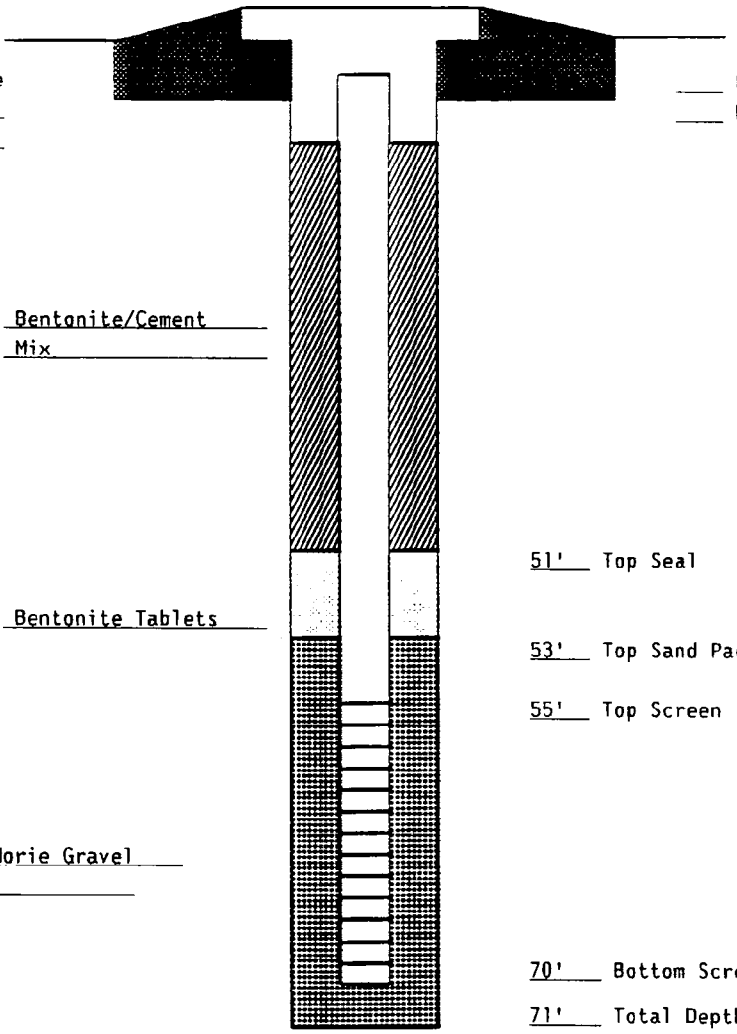
SITE Grumman Aerospace Corporation JOB NO. 1167 WELL NO. S6-MW-2

TOTAL DEPTH 70' SURFACE ELEV. _____ TOP RISER ELEV. _____

WATER LEVELS (DEPTH, DATE, TIME) 56.9 9 am DATE INSTALLED 8/11/92

RISER DIA 2" MATERIAL PVC LENGTH 55'
SCREEN DIA 2" MATERIAL PVC LENGTH 15' SLOT SIZE 0.010"

SCHEMATIC



Ground Surface

Surface Seal Type Portland Cement

____ Riser Elevation
____ Bottom Surface Seal

Grout Type Bentonite/Cement Mix

Seal Type Bentonite Tablets

51' Top Seal

53' Top Sand Pack

55' Top Screen

Sand Pack Type Morie Gravel
Size Number One

70' Bottom Screen

71' Total Depth of Boring

2854G/1167/6

Dvirka and Bartilucci CONSULTING ENGINEERS

WELL CONSTRUCTION LOG

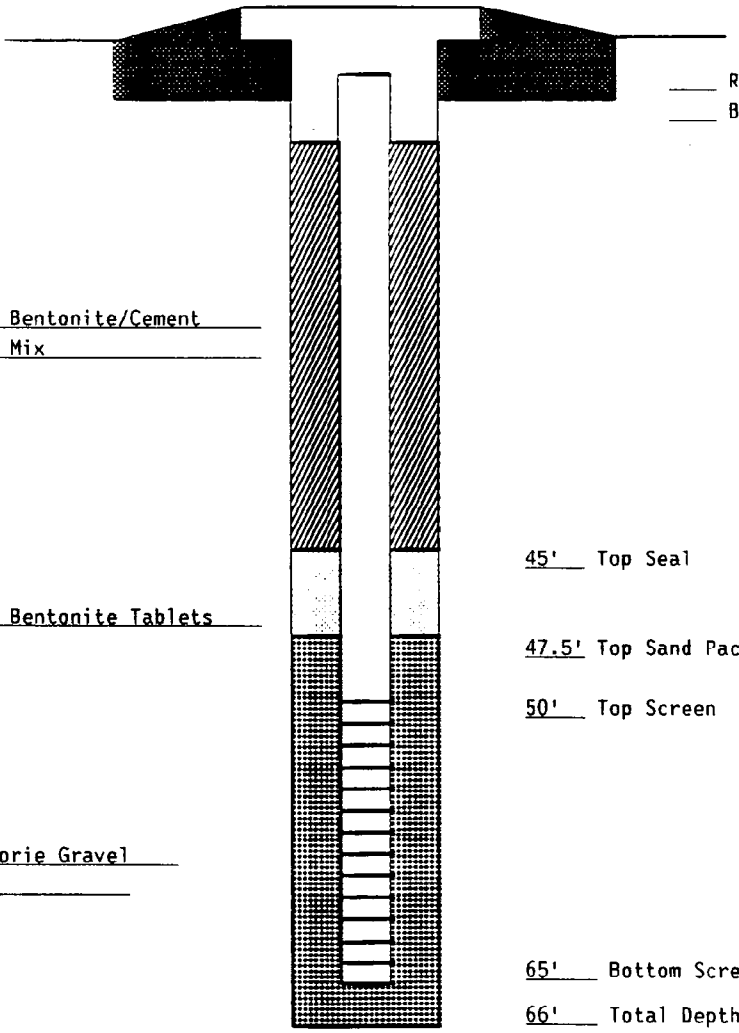
SITE Grumman Aerospace Corporation JOB NO. 1167 WELL NO. S8-MW-1

TOTAL DEPTH 65' SURFACE ELEV. _____ TOP RISER ELEV. _____

WATER LEVELS (DEPTH, DATE, TIME) 55.3' 12:30 pm DATE INSTALLED 8/13/92

RISER DIA 2" MATERIAL PVC LENGTH 50'
SCREEN DIA 2" MATERIAL PVC LENGTH 15' SLOT SIZE 0.010"

SCHEMATIC



Ground Surface

Surface Seal Type Portland Cement

____ Riser Elevation
____ Bottom Surface Seal

Grout Type Bentonite/Cement Mix

45' Top Seal

Seal Type Bentonite Tablets

47.5' Top Sand Pack

50' Top Screen

Sand Pack Type Morie Gravel
Size Number One

65' Bottom Screen

66' Total Depth of Boring

2854G/1167/7

Dvirka and Bartilucci CONSULTING ENGINEERS

WELL CONSTRUCTION LOG

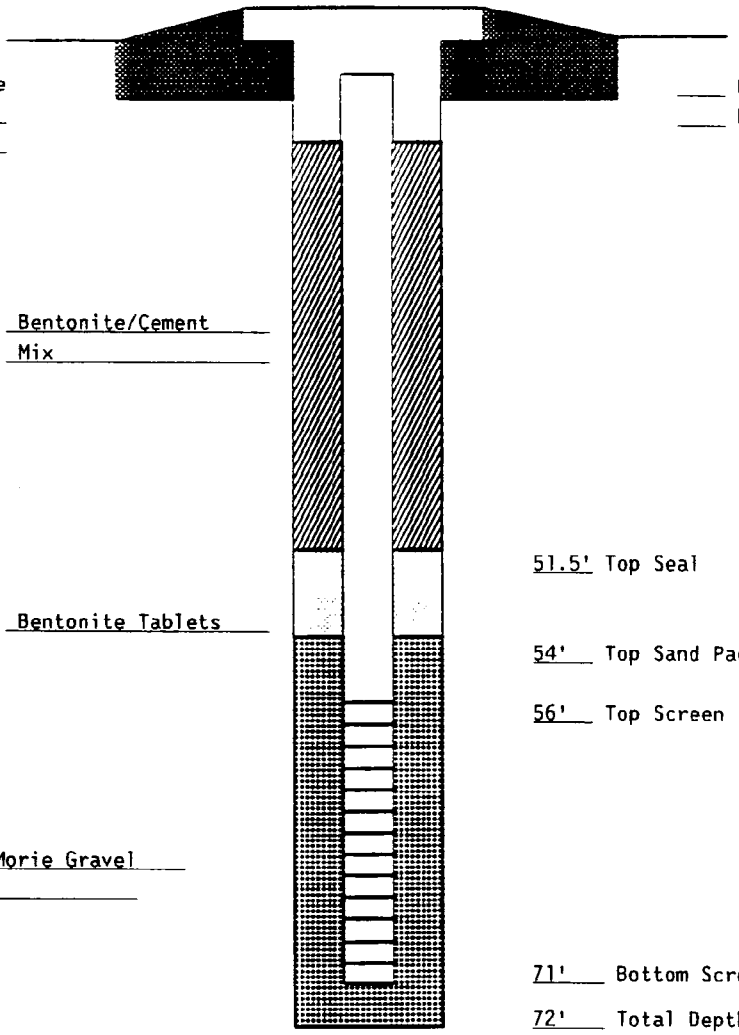
SITE Grumman Aerospace Corporation JOB NO. 1167 WELL NO. S9-MW-1

TOTAL DEPTH 71' SURFACE ELEV. _____ TOP RISER ELEV. _____

WATER LEVELS (DEPTH, DATE, TIME) 59.4' DATE INSTALLED 7/23/92

RISER DIA 2" MATERIAL PVC LENGTH 56'
SCREEN DIA 2" MATERIAL PVC LENGTH 15' SLOT SIZE 0.010"

SCHEMATIC



Ground Surface

Surface Seal Type Portland Cement

____ Riser Elevation
____ Bottom Surface Seal

Grout Type Bentonite/Cement Mix

51.5' Top Seal

Seal Type Bentonite Tablets

54' Top Sand Pack

56' Top Screen

Sand Pack Type Morie Gravel
Size Number One

71' Bottom Screen

72' Total Depth of Boring

2854G/1167/1

3.2 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.

Fourteen split spoon samples were obtained from the S6MW-1 borehole. The split spoon samples indicated that the soil in the area of S6MW-1 was mostly brown/orange/tan coarse sand with some to little gravel to a depth of 35 feet and light tan/gray/light white fine sand with trace amounts of gray clay/sand lenses to a depth of 57 feet. Sixteen split spoon samples were obtained from the S6MW-2 borehole. The samples indicated that the soil in the area of S6MW-2 is mostly brown/light orange/tan coarse to medium to fine sand with some gravel to a depth of 35 feet, brown/gray/black clay to a depth of 56 feet and gray/brown fine sand to a depth of 67 feet. Fifteen split spoon samples were obtained from the S8MW-1 borehole. The samples indicated that the soil in the area of S8MW-1 is mostly brown/light orange fine to medium to coarse sand with little gravel to a depth of 30 feet, light brown/white/pink clayey sand to a depth of 42 feet and brown/gray silty fine sand to a depth of 65 feet. Seventeen split spoon samples were obtained from the S9MW-1 borehole. The samples indicated that the soil in the area of S9MW-1 is mostly brown/tan medium to coarse sand with some gravel to a depth of 34 feet and mostly light tan/light gray fine sand to a depth of 71 feet.

Field screening of the split spoon samples collected from the S6MW-1 borehole, taken with an organic vapor analyzer during construction, did not indicate readings above ambient conditions, and there was no apparent indication of contamination in the S6MW-1 borehole associated with discoloration, odor or soil texture. A soil sample for laboratory analysis was obtained from the split spoon sample collected at the 4 to 6-foot interval from the S6MW-1 borehole. Field screening of the split spoon samples collected from the S6MW-2 borehole, taken with an organic vapor analyzer, detected a 100 ppm reading above ambient from the 2 to 4-foot interval and a 10 ppm reading above ambient from the 4 to 6-foot interval. There was no apparent indication of contamination in the S6MW-2 borehole associated with odor or soil texture; however, the split spoon samples collected at the 2 to 4 and 4 to 6-foot intervals were apparently stained. A soil sample for laboratory analysis was obtained from the split spoon sample collected from the 2 to 4-foot interval of borehole S6MW-2. The soil samples were analyzed for volatile organics using USEPA SW-846 Method 8010/8020 and total petroleum hydrocarbons (TPHCs) using USEPA Method 418.1. The analytical results from the monitoring well borehole soil samples are presented in Section 4.

3.3 Soil Boring Sampling

Soil samples were obtained from three soil borings located within the boundaries of the abandoned septic system/leaching field. The boring logs are presented in Appendix D. The hollow stem auger method of drilling was utilized for the soil borings, and each boring was advanced to a depth of 30 feet. Continuous split spoon sampling of the three soil borings was performed from the 20 to 30-foot interval, and samples were collected from the 24 to 26-foot intervals for laboratory analysis of volatile organics using USEPA SW-846 Method 8010/8020, total petroleum hydrocarbons using USEPA Method 418.1 and metals using Method 6010. The analytical results from the soil boring samples are presented in Section 4.

3.4 Groundwater Sampling

Prior to well sampling, a minimum of three times the volume of standing water in the casing and sandpack from each well (10594, GM-16S, S6MW-1, S6MW-2, S8MW-1 and S9MW-1) was removed with a bailer. One sample was collected from each well for laboratory analysis. The water samples were analyzed for volatile organics using Method 624 and metals using USEPA SW-846 Method 6010. The analytical results from the groundwater samples are presented in Section 4.

3.5 Volatile Organics Monitoring

During the drilling of the monitoring wells, no volatile organic vapors were 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. No significant levels of volatile organics were detected from the S6MW-1 borehole; however, a 100 ppm reading above ambient was obtained from the sample collected at the 2 to 4-foot interval, and a 10 ppm reading above ambient was obtained from the sample collected at the 4 to 6-foot interval from the S6MW-2 borehole.

Section 4

NYSDEC 046080

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 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 and total petroleum hydrocarbons (TPHCs). The results of these analyses are presented on Table 4-1 with the associated soil sampling field blank results presented on Table 4-2. In the soil samples collected from S6MW-1 and S6MW-2, methylene chloride was detected. In sample S6MW-1, methylene chloride was detected at 11.0 ug/kg, and in sample S6MW-2, methylene chloride was detected at 16.0 ug/kg. However, since methylene chloride was also detected in the field blank, and the compound is a common laboratory chemical, its presence in the environmental samples can be attributed to laboratory contamination. Toluene was also detected at 0.8 ug/kg in sample S6MW-2. However, all organic constituents were detected in concentrations that were well below the referenced cleanup objectives.

The levels of total petroleum hydrocarbons for S6MW-1 and S6MW-2 are also presented on Table 4-1. In sample S6MW-1 and S6MW-2 the levels of TPHCs was detected at 142 mg/kg and 220 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 compounds, the sample was also analyzed utilizing NYSDOH Method 310-13. The analytical results for samples S6MW-1 and S6MW-2 utilizing Method 310-13 are presented in Table 4-1 and indicate that the fuel-related constituents such as gasoline, lubricating oil, kerosene and fuel oil 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.

TABLE 4-1
GRUMMAN AEROSPACE CORPORATION
SITE 6 (RUNWAY)
SOIL SAMPLING
VOLATILE ORGANICS AND TOTAL PETROLEUM HYDROCARBONS

SAMPLE ID	S6MW1S	S6MW2S	S6BH1S	S6BH2S	S6BH3S	NYSDEC
SAMPLE DEPTH	(4'-6')	(2'-4')	(24'-26')	(24'-26')	(24'-26')	RECOMMENDED
DATE COLLECTED	08/05/92	08/10/92	08/03/92	08/04/92	08/04/92	SOIL
MATRIX	SOIL	SOIL	SOIL	SOIL	SOIL	CLEANUP
%MOISTURE	2	10	3	4	3	OBJECTIVES
DILUTION FACTOR	1	1	1	1	1	
UNITS	(ug/kg)	(ug/kg)	(ug/kg)	(ug/kg)	(ug/kg)	(ug/kg)
PARAMETER						
Chloromethane	U	U	U	U	U	----
Bromomethane	U	U	U	U	U	----
Vinyl chloride	U	U	U	U	U	200
Chloroethane	U	U	U	U	U	1900
Methylene chloride	11.0 B	16.0 B	U	U	U	100
1,1-Dichloroethene	U	U	U	U	U	400
1,1-Dichloroethane	U	U	U	U	U	200
1,2-Dichloroethene (trans)	U	U	U	U	U	300
Chloroform	U	U	U	U	U	300
1,2-Dichloroethane	U	U	U	U	U	100
1,1,1-Trichloroethane	U	U	U	U	U	800
Carbon tetrachloride	U	U	U	U	U	600
Bromodichloromethane	U	U	U	U	U	----
1,2-Dichloropropane	U	U	U	U	U	----
cis-1,3-Dichloropropene	U	U	U	U	U	----
Trichloroethene	U	U	U	U	U	700
Dibromochloromethane	U	U	U	U	U	----
1,1,2-Trichloroethane	U	U	U	U	U	----
Benzene	U	U	U	U	U	60
trans-1,3-Dichloropropene	U	U	U	U	U	----
Bromoform	U	U	U	U	U	----
Tetrachloroethene	U	U	U	U	U	1400
1,1,2,2-Tetrachloroethane	U	U	U	U	U	600
Toluene	U	0.8 J	U	U	U	1500
Chlorobenzene	U	U	U	U	U	1700
Ethylbenzene	U	U	U	U	U	5500
Xylene (total)	U	U	U	U	U	1200
2-Chloroethylvinylether	U	U	U	U	U	----
Trichlorofluoromethane	U	U	U	U	U	----
1,2-Dichlorobenzene	U	U	U	U	U	7900
1,3-Dichlorobenzene	U	U	U	U	U	1600
1,4-Dichlorobenzene	U	U	U	U	U	8500
Total Petroleum Hydrocarbons (mg/kg)	142	220	130	112	98.9	----
Gasoline	U	U	U	U	U	----
Lubricating Oil	U	U	U	U	U	----
Kerosene	U	U	U	U	U	----
Fuel Oil	U	U	U	U	U	----

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

NOTE:
----: Not Established

TABLE 4-2
GRUMMAN AEROSPACE CORPORATION
SITE 6 (RUNWAY)
SOIL SAMPLING FIELD BLANK
VOLATILE ORGANICS AND TOTAL PETROLEUM HYDROCARBONS

SAMPLE ID	S9FBS	
SAMPLE DEPTH		
DATE COLLECTED	07/27/92	
MATRIX	WATER	
%MOISTURE	NA	
DILUTION FACTOR	1	
UNITS	(ug/l)	
PARAMETER		
Chloromethane		U
Bromomethane		U
Vinyl chloride		U
Chloroethane		U
Methylene chloride	2.9	B
1,1-Dichloroethene		U
1,1-Dichloroethane		U
1,2-Dichloroethene (trans)		U
Chloroform		U
1,2-Dichloroethane		U
1,1,1-Trichloroethane		U
Carbon tetrachloride		U
Bromodichloromethane		U
1,2-Dichloropropane		U
cis-1,3-Dichloropropene		U
Trichloroethene		U
Dibromochloromethane		U
1,1,2-Trichloroethane		U
Benzene		U
trans-1,3-Dichloropropene		U
Bromoform		U
Tetrachloroethene		U
1,1,2,2-Tetrachloroethane		U
Toluene		U
Chlorobenzene		U
Ethylbenzene		U
Xylene (total)		U
2-Chloroethylvinylether		U
Trichlorofluoromethane		U
1,2-Dichlorobenzene		U
1,3-Dichlorobenzene		U
1,4-Dichlorobenzene		U
Total Petroleum Hydrocarbons		U

QUALIFIERS:
U: Analyzed for but not detected
B: Compound found in method blank as well as sample

4.2 Soil Boring Sampling

In addition to presenting the analytical results obtained from the soil samples collected from the monitoring well boreholes, Table 4-1 also presents the volatile organic and TPHC results for the soil samples collected from each of the three 30-foot deep soil borings. There were no volatile organics detected. The levels of total petroleum hydrocarbons detected in samples S6BH-1, S6BH-2 and S6BH-3 were 130 mg/kg, 112 mg/kg and 98.9 mg/kg, respectively. Additional analyses on each of the preceding samples utilizing Method 310-13 indicated that the fuel-related constituents such as gasoline, lubricating oil, kerosene and fuel oil were not detected above the method detection limit. Therefore, it appears that the TPHCs detected in the soil boring samples are not associated with any fuel-related spills.

The results of the inorganic analyses of the soil samples and the associated field blank are presented on Tables 4-3 and 4-4, respectively. As indicated on Table 4-3, several inorganic constituents were detected in the samples. However, all inorganic constituents were detected in concentrations that were well below the referenced cleanup objectives.

4.3 Groundwater Sampling

One groundwater sample was collected from each monitoring well and analyzed for volatile organic and inorganic constituents. The results of the volatile organic analyses of the groundwater samples and the associated field and trip blanks are presented on Tables 4-5 and 4-6, respectively. Methylene chloride was detected in groundwater samples S9MW-1 and GM16S at concentrations of 4 ug/l and 8 ug/l, respectively. However, since methylene chloride was also detected in the field and trip blanks, and the compound is a common laboratory chemical, its presence in the environmental samples can be attributed to laboratory contamination. Toluene was detected slightly above the NYSDOH drinking water standard in GM16S at a concentration of 6 ug/l. However, since toluene was also detected in the method blank, its presence in the environmental sample can also be attributed to laboratory contamination. Trichloroethene was detected above the NYSDOH drinking water standard in S6MW-1 at a concentration of 42 ug/l. This monitoring well is located on the southeastern border of the site and is directly

TABLE 4-3
GRUMMAN AEROSPACE CORPORATION
SITE 6 (RUNWAY)
SOIL SAMPLING
INORGANIC CONSTITUENTS

SAMPLE ID	S6BH1S	S6BH2S	S6BH3S	NYSDEC RECOMMENDED SOIL CLEANUP OBJECTIVES
SAMPLE DEPTH	(24'-26')	(24'-26')	(24'-26')	
DATE COLLECTED	08/03/92	08/04/92	08/04/92	
MATRIX	SOIL	SOIL	SOIL	
% SOLIDS	96.6	96.5	97.1	
UNITS	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)
PARAMETER				
Antimony	U	U	U	SB
Arsenic	U	U	U	7.5 or SB
Beryllium	U	U	U	1.0 or SB
Cadmium	U	U	U	1 or SB
Chromium	6.0	2.5	3.5	10 or SB
Copper	U	4.0 B	2.9 B	25 or SB
Lead	1.3	3.4	3.0	30 or SB
Mercury	U	U	U	0.1
Nickel	6.1 B	4.3 B	U	13 or SB
Selenium	U	U	U	2 or SB
Silver	U	U	U	SB
Thallium	U	U	U	SB
Zinc	8.7	10.2	7.3	20 or SB

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

NOTE:
SB: Site Background

TABLE 4-4
GRUMMAN AEROSPACE CORPORATION
SITE 6 (RUNWAY)
SOIL SAMPLING FIELD BLANK
INORGANIC CONSTITUENTS

SAMPLE ID	S9FBS
SAMPLE DEPTH	
DATE COLLECTED	07/27/92
MATRIX	WATER
% SOLIDS	0.0
UNITS	(ug/l)
PARAMETER	
Antimony	U
Arsenic	U
Beryllium	U
Cadmium	U
Chromium	U
Copper	U
Lead	U
Mercury	U
Nickel	U
Selenium	U
Silver	U
Thallium	U
Zinc	U

QUALIFIERS:
U: Analyzed for but not detected

TABLE 4-5
GRUMMAN AEROSPACE CORPORATION
SITE 6 (RUNWAY)
GROUNDWATER SAMPLING
VOLATILE ORGANICS

SAMPLE ID	S6MW1	S6MW2	S8MW1	S9MW1	USGS10594	GM16S	NYSDOH
DATE COLLECTED	08/31/92	09/02/92	09/01/92	08/31/92	09/01/92	09/03/92	DRINKING WATER
SAMPLE VOLUME	5 ml	5 ml	5 ml	5 ml	5 ml	5 ml	STANDARDS
DILUTION FACTOR	1	1	1	1	1	1	
UNITS	(ug/l)	(ug/l)	(ug/l)	(ug/l)	(ug/l)	(ug/l)	(ug/l)
PARAMETER							
Chloromethane	U	U	U	U	U	U	5
Bromomethane	U	U	U	U	U	U	5
Vinyl chloride	U	U	U	U	U	U	2
Chloroethane	U	U	U	U	U	U	5
Methylene chloride	U	U	U	4 J	U	8 BJ	5
Acetone	U	U	U	U	U	U	50
Carbon disulfide	U	U	U	U	U	U	50
1,1-Dichloroethene	U	U	U	U	U	U	5
1,1-Dichloroethane	U	U	U	U	U	U	5
1,2-Dichloroethene (total)	1 J	U	U	U	U	U	5
Chloroform	U	U	U	U	U	U	100**
1,2-Dichloroethane	U	U	U	U	U	U	5
2-Butanone	U	U	U	U	U	U	5
1,1,1-Trichloroethane	U	U	U	U	U	U	5
Carbon tetrachloride	U	U	U	U	U	U	5
Bromodichloromethane	U	U	U	U	U	U	5
1,2-Dichloropropane	U	U	U	U	U	U	5
cis-1,3-Dichloropropene	U	U	U	U	U	U	5
Trichloroethene	42	U	1 J	U	3 J	U	5
Dibromochloromethane	U	U	U	U	U	U	100**
1,1,2-Trichloroethane	U	U	U	U	U	U	5
Benzene	U	U	U	U	U	U	5
trans-1,3-Dichloropropene	U	U	U	U	U	U	5
Bromoform	U	U	U	U	U	U	100**
4-Methyl-2-Pentanone	U	U	U	U	U	U	5
2-Hexanone	U	U	U	U	U	U	5
Tetrachloroethene	U	U	U	U	U	U	5
1,1,2,2-Tetrachloroethane	U	U	U	U	U	U	5
Toluene	U	U	U	U	U	6 BJ	5
Chlorobenzene	U	U	U	U	U	U	5
Ethylbenzene	U	U	U	U	U	U	5
Styrene	U	U	U	U	U	U	5
Xylene (total)	U	U	U	U	U	U	5

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

NOTES:
**: Applies to the sum of trihalomethanes
: Exceeds standard value

TABLE 4-6
GRUMMAN AEROSPACE CORPORATION
SITE 6 (RUNWAY)
GROUNDWATER SAMPLING
FIELD BLANK AND TRIP BLANKS
VOLATILE ORGANICS

SAMPLE ID	FIELD BLANK	TRIP BLANK	TRIP BLANK	TRIP BLANK
DATE COLLECTED	08/27/92	08/27/92	08/31/92	09/02/92
SAMPLE VOLUME	5 ml	5 ml	5 ml	5 ml
DILUTION FACTOR	1	1	1	1
UNITS	(ug/l)	(ug/l)	(ug/l)	(ug/l)
PARAMETER				
Chloromethane	U	U	U	U
Bromomethane	U	U	U	U
Vinyl chloride	U	U	U	U
Chloroethane	U	U	U	U
Methylene chloride	3 J	3 J	7 J	2 J
Acetone	5 BJ	6 BJ	U	U
Carbon disulfide	U	U	U	U
1,1-Dichloroethene	U	U	U	U
1,1-Dichloroethane	U	U	U	U
1,2-Dichloroethene (total)	U	U	U	U
Chloroform	U	U	U	U
1,2-Dichloroethane	U	U	U	U
2-Butanone	U	U	U	U
1,1,1-Trichloroethane	U	U	U	U
Carbon tetrachloride	U	U	U	U
Bromodichloromethane	U	U	U	U
1,2-Dichloropropane	U	U	U	U
cis-1,3-Dichloropropene	U	U	U	U
Trichloroethene	U	U	U	U
Dibromochloromethane	U	U	U	U
1,1,2-Trichloroethane	U	U	U	U
Benzene	U	U	U	U
trans-1,3-Dichloropropene	U	U	U	U
Bromoform	U	U	U	U
4-Methyl-2-Pentanone	U	U	U	U
2-Hexanone	U	U	U	U
Tetrachloroethene	U	U	U	U
1,1,2,2-Tetrachloroethane	U	U	U	U
Toluene	U	U	U	U
Chlorobenzene	U	U	U	U
Ethylbenzene	U	U	U	U
Styrene	U	U	U	U
Xylene (total)	U	U	U	U

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

downgradient of the on-site leaching field associated with the former sanitary septic system of Plant 2 (located to the east of the site). As previously mentioned, the network of abandoned leaching pools were closed and backfilled after Plant 2 was connected to the Nassau County sewer system sometime in the 1970s. All other volatile organics were either not detected or were detected at concentrations well below the NYSDOH drinking water standards. It should also be noted that S6MW-1 is located downgradient of Plant 3. Previous studies have shown that Plant 3 appears to be a likely source of groundwater contamination.

The results of inorganic analysis of the groundwater samples and the associated field blank are presented on Tables 4-7 and 4-8, respectively. As indicated on Table 4-7, 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-10594. 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 groundwater sample from this location was filtered to remove soil particles prior to laboratory analysis. As indicated on Table 4-7, lead was not detected in the filtered sample (USGS-10594F). Therefore, it appears that the excess levels of lead in the location of the USGS monitoring well is attributable to soil contamination and is not indicative of groundwater quality. As a result, it can be concluded that all inorganic constituents related to groundwater quality were detected in concentrations that were well below the NYSDOH drinking water standards.

Furthermore, the location of USGS-10594 is adjacent to the intersection of South Oyster Bay Road Extension and the Long Island Railroad, and appears to be approximately 6 feet to the west of the site's western boundary. The on-site areas in the vicinity of the USGS well are comprised of grass and wooded areas with no apparent evidence of any stressed vegetation or previous industrial activity. Therefore, it does not appear that any soil contamination in this area would be attributable to on-site locations.

4.4 Conclusions

A review of agency and Grumman files revealed no records pertaining to any chemical and/or fuel spills on-site. Furthermore, according to interviews with Grumman personnel and 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. Based on the site history and visual inspection performed on May 29, 1992, it does not appear that on-site operations have resulted in any chemical and/or

TABLE 4-7
GRUMMAN AEROSPACE CORPORATION
SITE 6 (RUNWAY)
GROUNDWATER SAMPLING
INORGANIC CONSTITUENTS

SAMPLE ID	S6MW1	S6MW1F	USGS10594	USGS10594F	NYSDOH DRINKING WATER STANDARDS
DATE COLLECTED	08/31/92	08/31/92	09/02/92	09/02/92	
UNITS	(ug/l)	(ug/l)	(ug/l)	(ug/l)	(ug/l)
PARAMETER					
Antimony	U	U	U	U	----
Arsenic	23.8	25.0	U	U	50
Beryllium	U	U	U	U	----
Cadmium	U	U	U	U	10
Chromium	15.0	6.1 B	23.5	U	50
Copper	37.2	37.2	114	U	1000
Lead	11.7	4.1	249	U	50
Mercury	0.45	0.34	0.54	U	2
Nickel	U	U	90.9	33.4 B	----
Selenium	U	U	U	U	10
Silver	U	U	17.3	U	50
Thallium	U	U	U	U	----
Zinc	16.3 B	13.5 B	208	22.0	5000

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

NOTES:
----: Not established
: Exceeds standard value

TABLE 4-7 (continued)
GRUMMAN AEROSPACE CORPORATION
SITE 6 (RUNWAY)
GROUNDWATER SAMPLING
INORGANIC CONSTITUENTS

SAMPLE ID	S6MW2	S8MW1	S9MW1	GM16S	NYSDOH DRINKING WATER STANDARDS
DATE COLLECTED	09/02/92	09/01/92	08/31/92	09/03/92	
UNITS	(ug/l)	(ug/l)	(ug/l)	(ug/l)	(ug/l)
PARAMETER					
Antimony	U	U	U	U	----
Arsenic	U	U	U	U	50
Beryllium	U	U	3.9 B	U	----
Cadmium	U	U	U	U	10
Chromium	U	U	11.7	U	50
Copper	U	U	21.2 B	U	1000
Lead	6.7	U	U	U	50
Mercury	U	U	U	U	2
Nickel	32.8 B	U	U	U	----
Selenium	U	U	U	U	10
Silver	U	U	U	U	50
Thallium	U	U	U	U	----
Zinc	1020	18.1 B	16.1 B	U	5000

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

NOTES:
----: Not established

TABLE 4-8
GRUMMAN AEROSPACE CORPORATION
SITE 6 (RUNWAY)
GROUNDWATER SAMPLING
FIELD BLANK
INORGANIC CONSTITUENTS

SAMPLE ID	FIELD BLANK
DATE COLLECTED	08/27/92
UNITS	(ug/l)
PARAMETER	
Antimony	U
Arsenic	U
Beryllium	U
Cadmium	U
Chromium	U
Copper	U
Lead	U
Mercury	U
Nickel	U
Selenium	U
Silver	U
Thallium	U
Zinc	U

QUALIFIERS:
U: Analyzed for but not detected

fuel spills or releases. With the exception of trichloroethene, which was detected in S6MW-1 at a concentration of 42 ug/l, none of the compounds were detected above the referenced standards/guidelines other than those which were attributable to laboratory contamination and elevated turbidity. With regard to the S6MW-1 monitoring well, it would appear that the source of trichloroethene is the on-site leaching pools of the former sanitary septic system associated with Plant 2 which is located to the southeast of the site. As previously mentioned, these leaching pools were closed and backfilled after Plant 2 was connected to the Nassau County sewer system sometime in the 1970s. The on-site leaching pools are located in the southeastern portion of the site and comprise only approximately 2 acres of the entire 33-acre site. As previously mentioned, it should also be noted that previous studies have shown that Plant 3, located upgradient of S6MW-1, is a likely source of groundwater contamination.

Based on the above findings, we believe that the information presented in this document is sufficient to support the partial delisting of the site under New York State regulations. We believe that the majority of the site, including all tax blocks and lots indicated in Appendix B, is eligible for delisting exclusive of the eastern portion of Block 323, Lot 16A, which encompasses the approximate 2-acre leaching field.

Section 5

NYSDEC 046094

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.

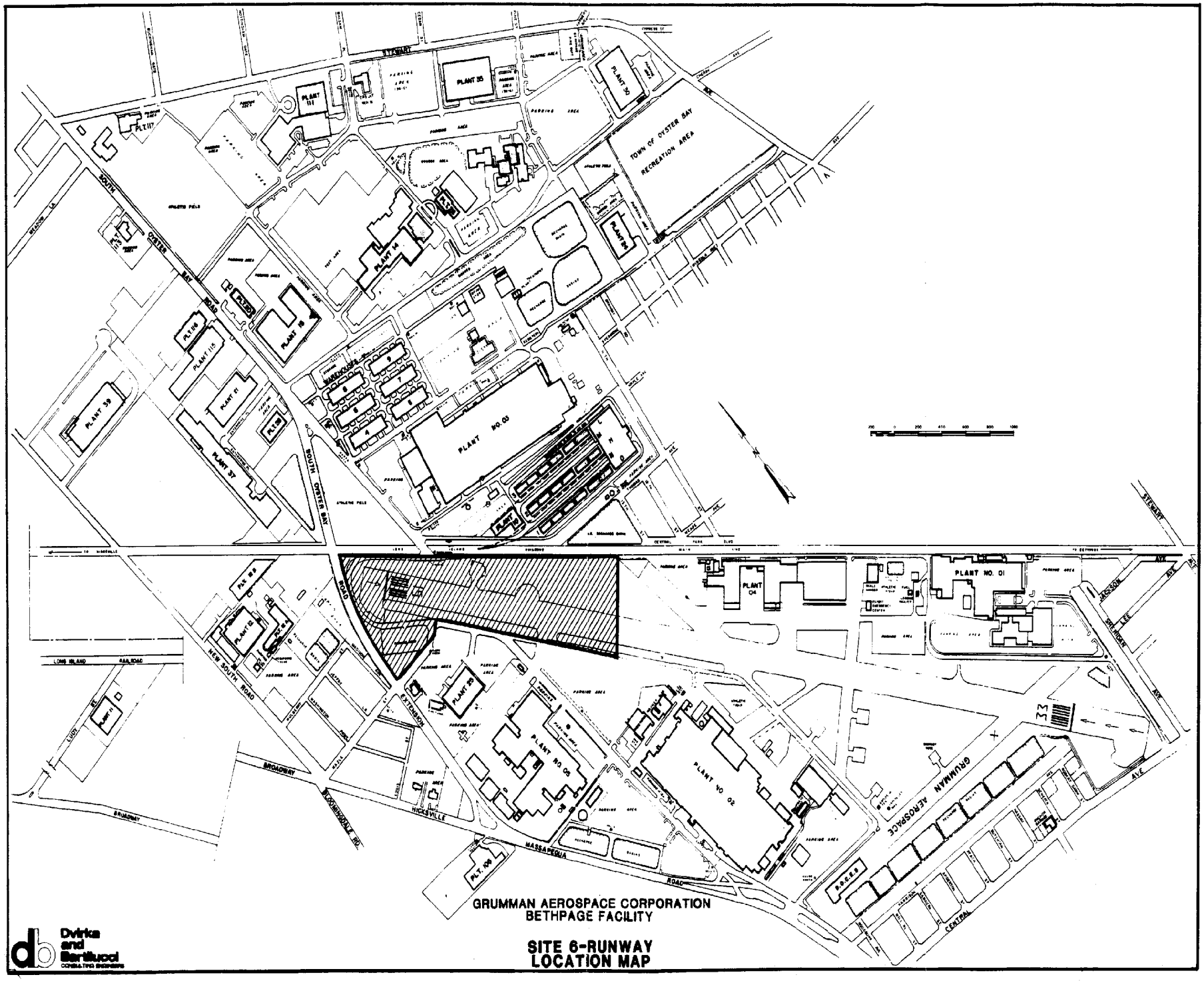
USEPA - Region 2, Proposed Plan Superfund Update Hooker Chemical/Ruco Polymer Site, Hicksville, New York, July 1990.

Appendix A

NYSDEC 046096

APPENDIX A

LOCATION MAP



NYSDEC 046098

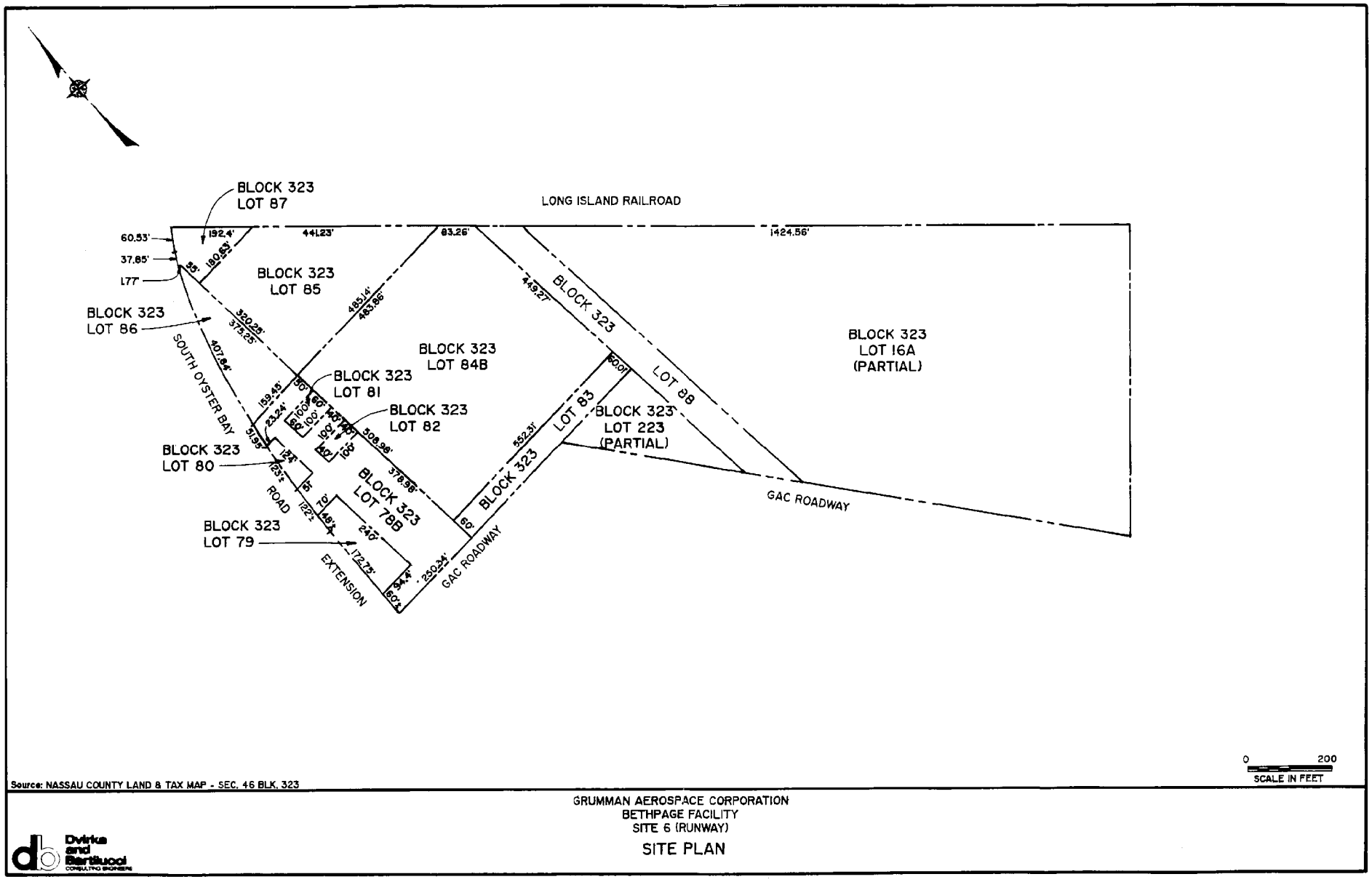
Appendix B

NYSDEC 046099

APPENDIX B

SITE PLAN

2286G
1167



Source: NASSAU COUNTY LAND & TAX MAP - SEC. 46 BLK. 323

GRUMMAN AEROSPACE CORPORATION
BETHPAGE FACILITY
SITE 6 (RUNWAY)

SITE PLAN

Dvirka and Bartilucci CONSULTING ENGINEERS

NYSDEC 046101

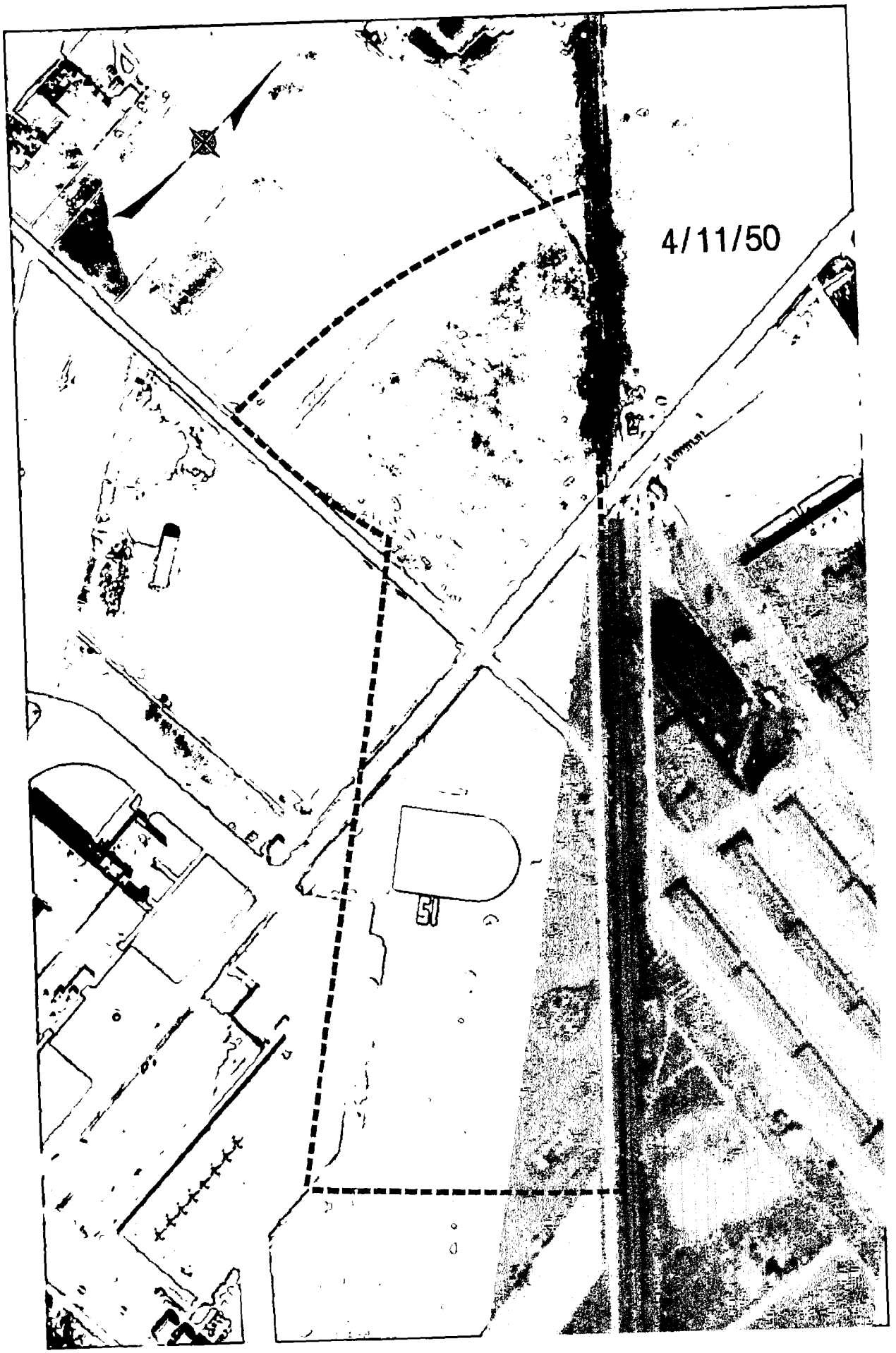
Appendix C

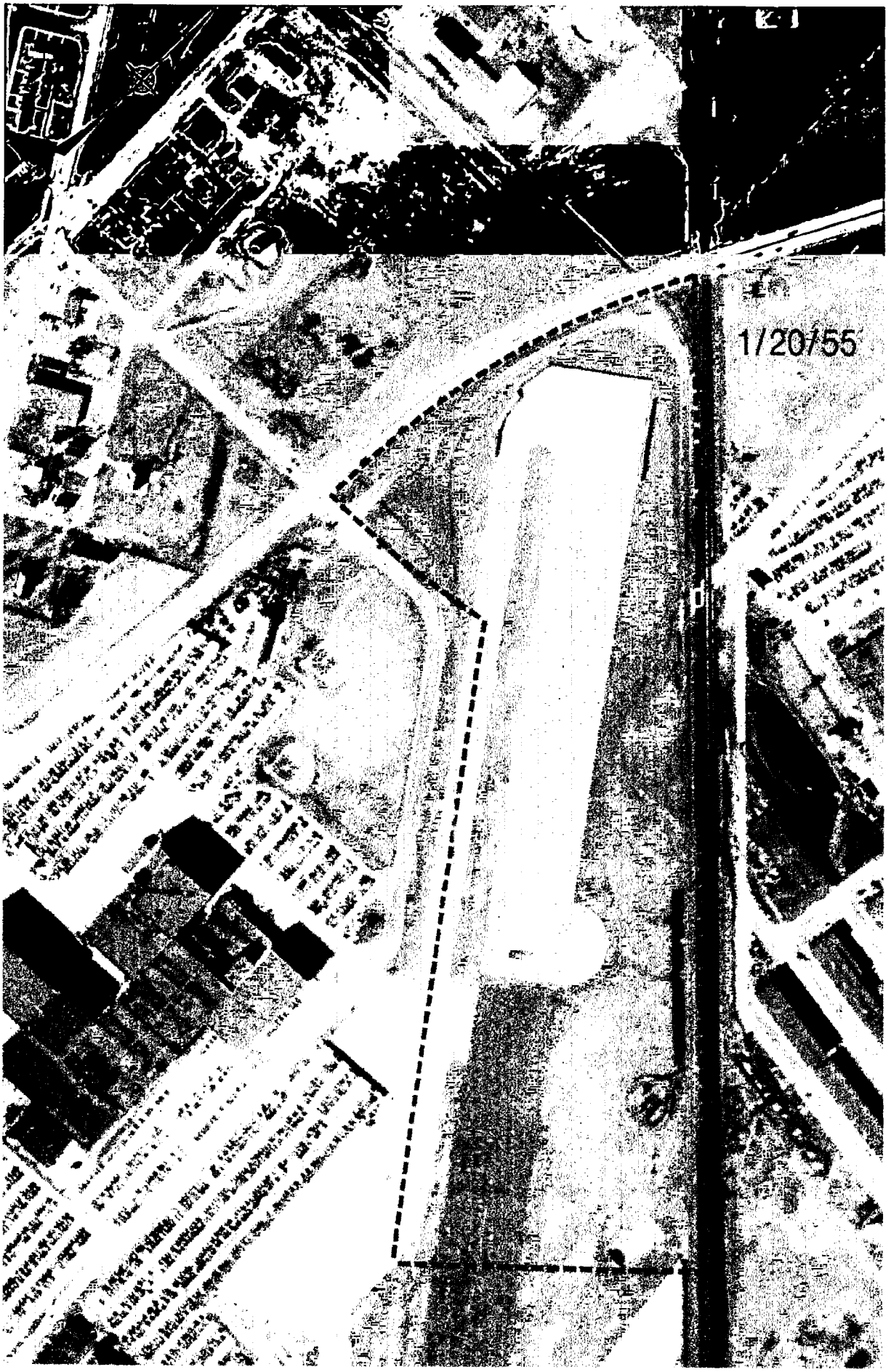
NYSDEC 046102

APPENDIX C

AERIAL PHOTOGRAPHS (1950-1988)

NYSDEC 046103


4/11/50
51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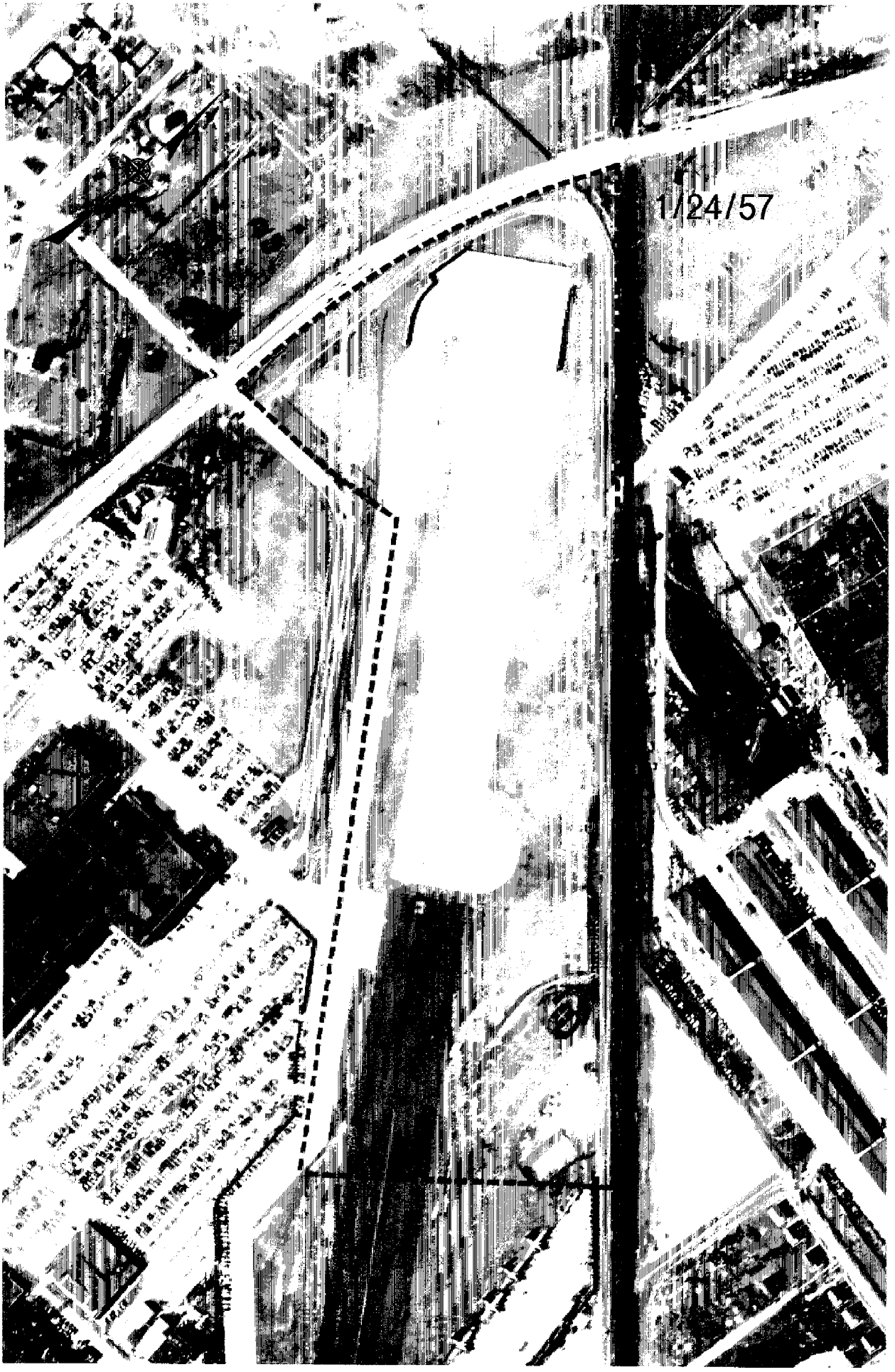
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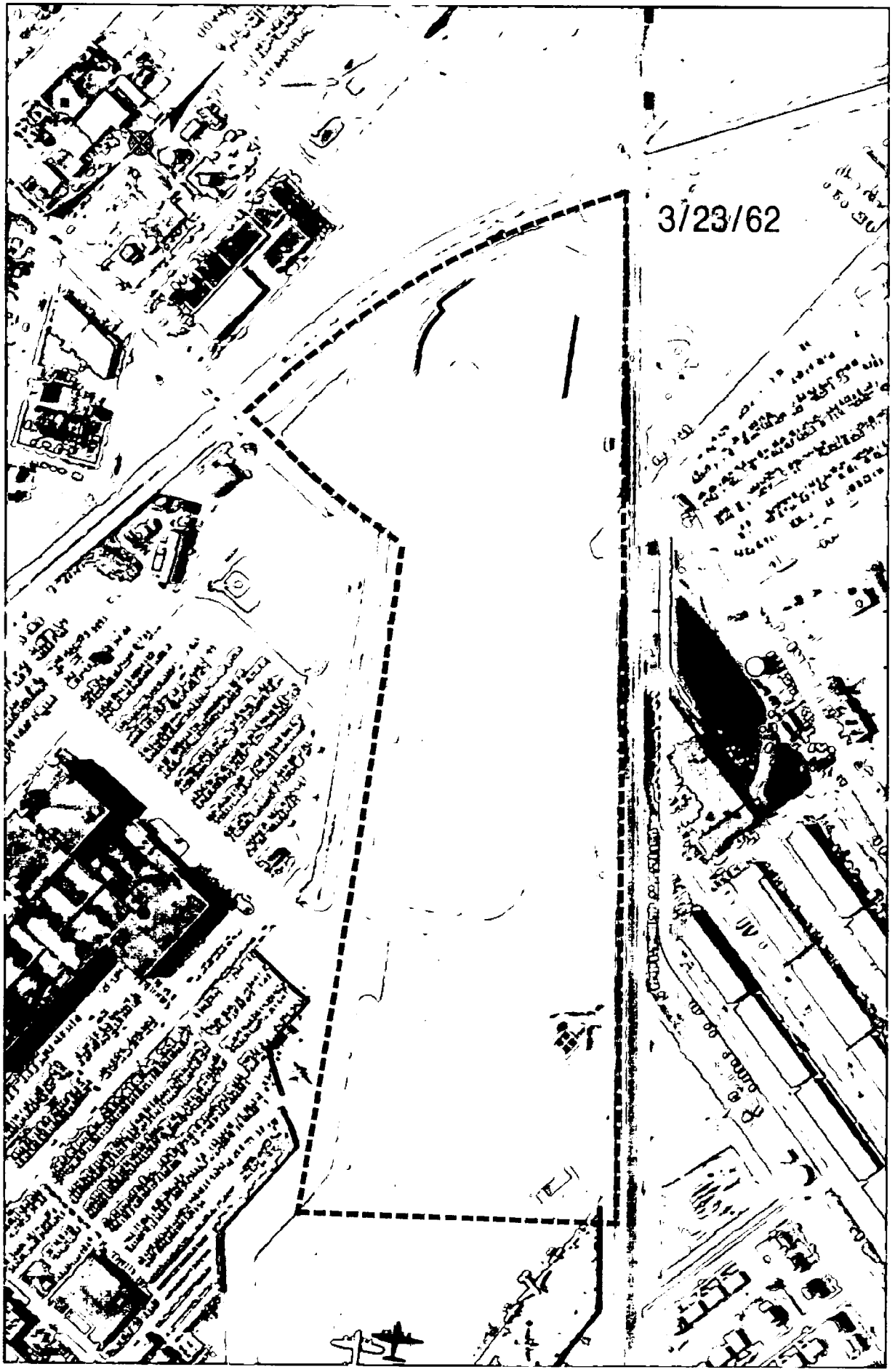
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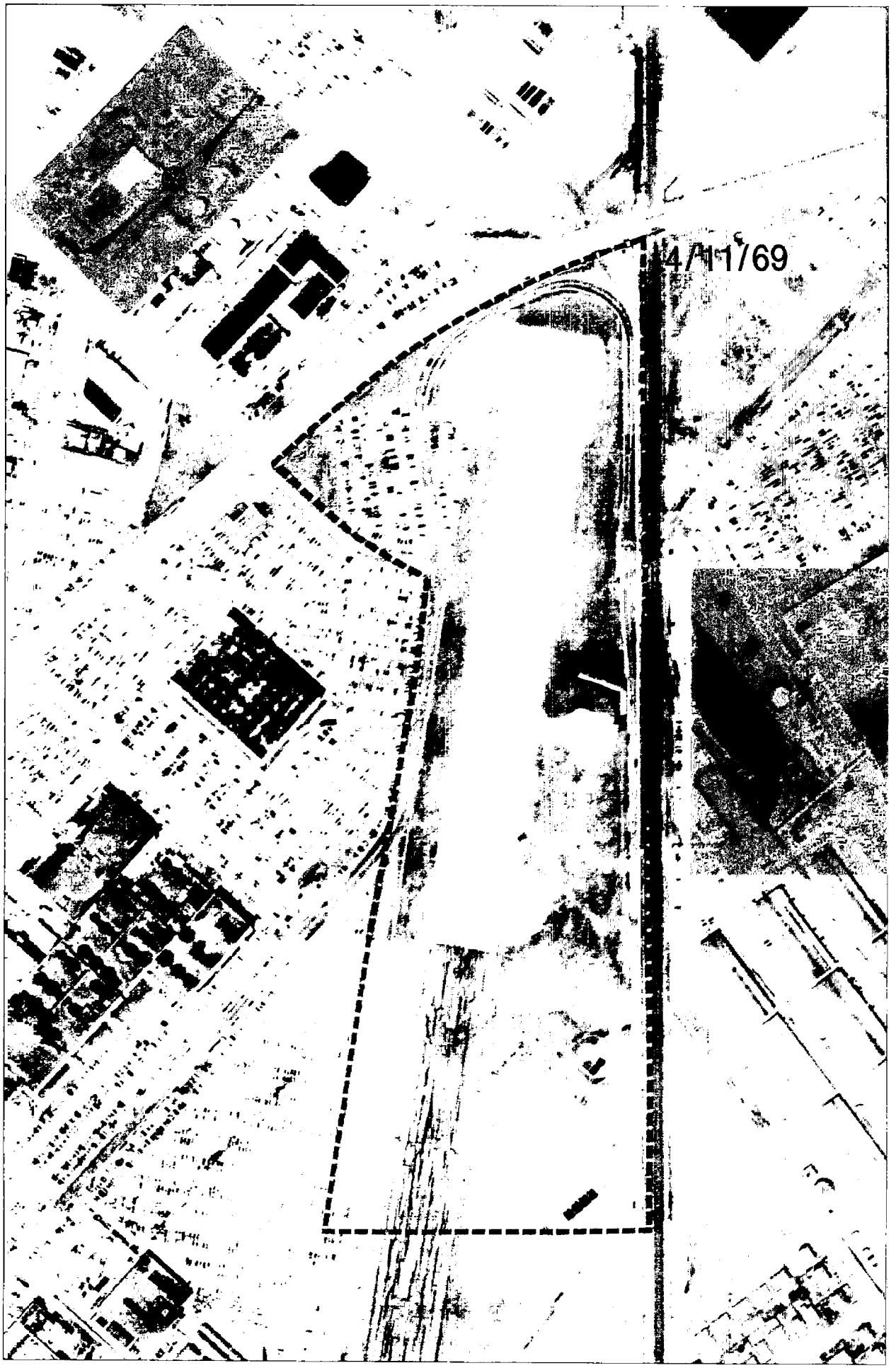
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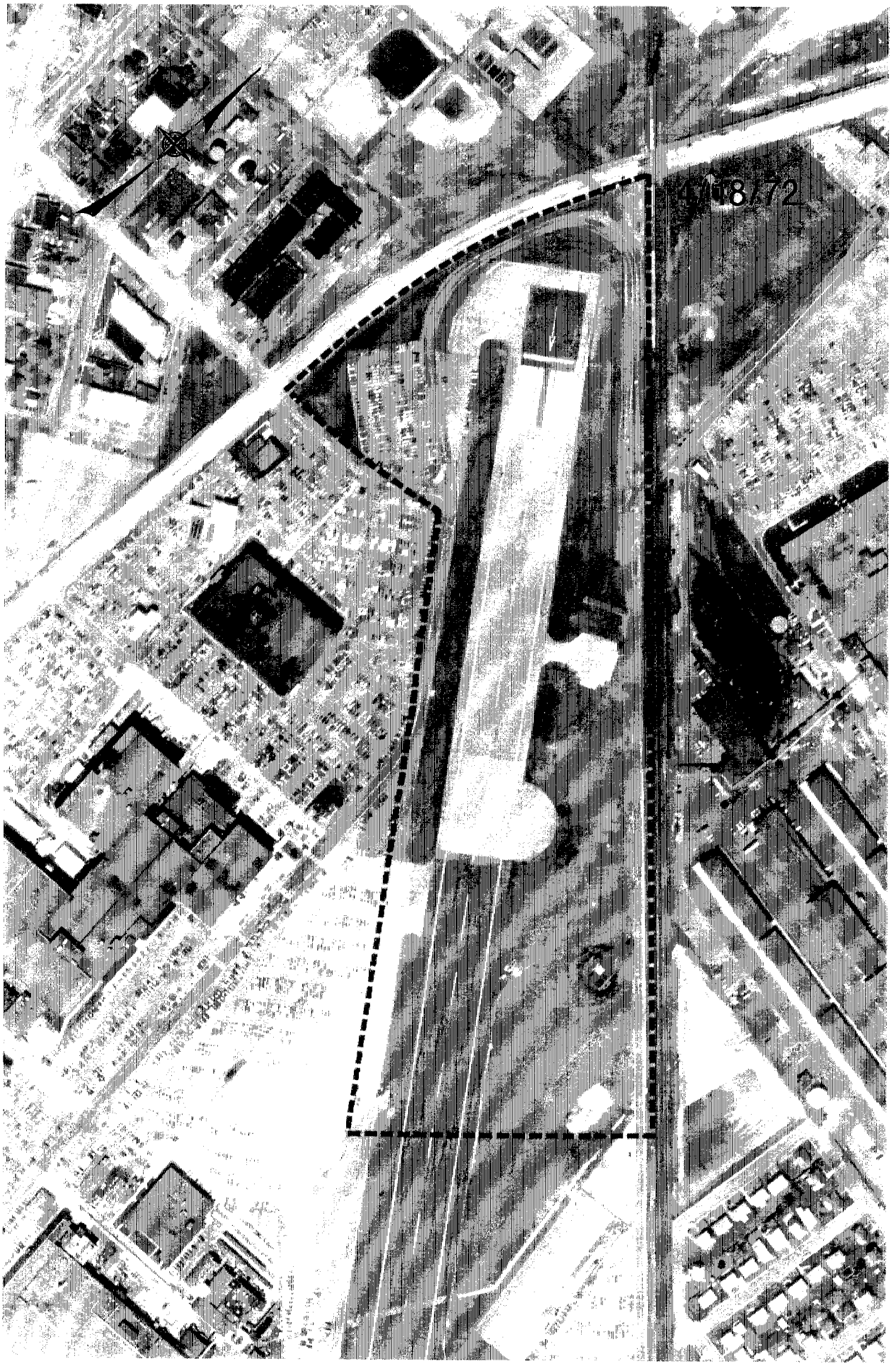
8/72

3/8/88

Appendix D

NYSDEC 046111

APPENDIX D

BORING LOGS

NYSDEC 046112

BORING LOG

DVIRKA AND BARTILUCCI

Project No.: 1167
Project Name: Grumman Aerospace

Well/Boring No.: SB-BH-1
Sheet 1 of 1
By: ESR Date: 8/3/92
Chk'd: _____ Date: _____

Drilling Contractor: Fenley and Nicol
Driller: Jim Oppeltz
Drill Rig: B-47
Sample Spoon I.D.: 2"
Date Started: 8/3/92
Geologist: Keith S. Robins
Drilling Method: Hollow Stem Auger
Drive Hammer Wt.: 140 lbs.
Date Completed: 8/3/92

Borehole Completion Depth: 30'
Borehole Diameter: 8"
Ground Surface El.: _____

DEPTH (FT.)	SAMPLE NO.	SAMPLING INTERVAL	RECOVERY/ RQD	BLOWS/6"	HEADSPACE (PPM)	SAMPLE DESCRIPTION
-0-						0-15' Brown - Lt brown coarse Qtz Sand, mixed with some gravel, subrnd., trace silt.
2						
4						
6						
8						
10						
12						15'-20' Lt brown medium Qtz subrnd Sand, trace fine-medium gravel
14						
16						
18						
20						

Remarks: No split spoon samples taken from 0-20, Geologic log based on visual identification

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

BL

BORING LOG

DVIRKA AND BARTILUCCI

Project No.: 1167
Project Name: Grumman Aerospace

Well/Boring No.: SG-BH-1
Sheet 1 of 2
By: KSR Date: 8/3/92
Chk'd: _____ Date: _____

Drilling Contractor: Fenley and Nicol
Driller: Jim Omdetty Geologist: Keith S. Robins
Drill Rig: B-47 Drilling Method: Hollow Stem Auger
Sample Spoon I.D.: 2" Drive Hammer Wt.: 140 lbs.
Date Started: 8/3/92 Date Completed: 8/3/92

Borehole Completion Depth: 30'
Borehole Diameter: 8"
Ground Surface El.: _____

DEPTH (FT.)	SAMPLE NO.	SAMPLING INTERVAL	RECOVERY/ RQD	BLOWS/6"	HEADSPACE (PPM)	SAMPLE DESCRIPTION
20						
21	S1	20-22	15"	10,15, 15,23	0	LT brown coarse subrnd Qtz Sand, Some-little fn gravel, trace silt, loose, poorly sorted Moist
22						
23	S-2	22-24	15"	12,17, 25,33	0	LT Brown-Tan coarse Sand, and Abundant fn subang-subrnd Qtz gravel, tr silt, tr dk min, very poorly sorted, loose. damp
24						
25	S-3	24-26	18"	10,12, 20,30	0	LT Brown-tan, m-c subrnd Sand, Some(+) fn gravel, tr. silt, tr dk min, poorly sorted - damp
26						
27						
28	S-4	26-28	15"	6,13 18,20	0	Brown m-c, subrnd Qtz Sand, little fine-medium gravel, trace silt, poorly Sorted, Loose damp
29						
30	S-5	28-30	18"	6,17 20,35	0	Brown-LT tan fn(t)c Qtz Sand, Some-little fn gravel, tr dk min, tr silt, poorly sorted (damp)

Remarks: Vertical scale changed to every 1 ft. Soil sample (24-26) sent for lab analysis

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

BL

BORING LOG

DVIRKA AND BARTILUCCI

Project No.: 1167
Project Name: Grumman Aerospace

Well/Boring No.: S6-BH-2
Sheet 1 of 1
By: KSR Date: 8/5/92
Chk'd: _____ Date: _____

Drilling Contractor: Fenley and Nicol
Driller: Jim Onufety
Drill Rig: B-47
Sample Spoon I.D.: 2"
Date Started: 8/4/92
Geologist: Keith S. Robins
Drilling Method: Hollow Stem Auger
Drive Hammer Wt.: 140 lbs.
Date Completed: 8/4/92

Borehole Completion Depth: 30'
Borehole Diameter: 8"
Ground Surface El.: _____

DEPTH (FT.)	SAMPLE NO.	SAMPLING INTERVAL	RECOVERY/ RQD	BLOWS/6"	HEADSPACE (PPM)	SAMPLE DESCRIPTION
-0-						0-10' LT brown, coarse - medium Sand, trace silt, some - little gravel subrounded.
2						
4						
6						
8						
10						10'-20' LT brown Coarse subrnd Qtz Sand, Some (+) fm gravel, tr, silt.
12						
14						
16						
18						
20						

Remarks: No split spoon samples taken from 0-20', Geologic log based on visual identification of soil cuttings

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

Soil Sample 24-26, lab analysis

BL

BORING LOG

DVIRKA AND BARTILUCCI

Project No.: 1167
Project Name: Grumman Aerospace

Well/Boring No.: SG-BH-2
Sheet 1 of 2
By: KSR Date: 8/4/92
Chk'd: _____ Date: _____

Drilling Contractor: Fenley and Nicol
Driller: Jim Omletz
Drill Rig: B-47
Sample Spoon I.D.: 2"
Date Started: 8/4/92
Geologist: Keith S. Robins
Drilling Method: Hollow Stem Auger
Drive Hammer Wt.: 140 lbs.
Date Completed: 8/4/92

Borehole Completion Depth: 30'
Borehole Diameter: 8"
Ground Surface El.: _____

DEPTH (FT.)	SAMPLE NO.	SAMPLING INTERVAL	RECOVERY/ RQD	BLOWS/6"	HEADSPACE (PPM)	SAMPLE DESCRIPTION
20- 21	S-1	20-22	16"	7,10, 20,25	0	LT Tan, Coarse subrnd Qtz Sand, some (+) fm (+) c subrnd-subang gravel, tr silt, poorly sorted very loose damp.
22 23	S-2	22-24	17"	5,10, 15,18	0	LT brown-Tan m (+) -coarse Qtz Sand, little fm (+) subrnd gravel, tr dk minerals damp
24- 25	S-3	24-26	15"	7,11, 13,15	0	Brown-Tan Coarse subrnd Qtz Sand, some (-) fm gravel, trace cobbles, tr silt, tr dk min, poorly sorted damp
26 27-	S-4	26-28	20"	9,13 20,20	0	Brown very coarse subrnd Qtz Sand, abundant f (+) m subangular gravel, tr silt, little dk minerals damp
28- 29-						
30	S-5	28-30	20"	7,13, 17,20	0	Brown-LT orange m-c, subrnd Qtz Sand, little fm gravel, tr silt, Fe staining damp.

Remarks:

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

BL

BORING LOG

DVIRKA AND BARTILUCCI

Project No.: 1167
Project Name: Grumman Aerospace

Well/Boring No.: SG-BH-3
Sheet 1 of 1
By: KSR Date: 8/4/92
Chk'd: _____ Date: _____

Drilling Contractor: Fenley and Nicol
Driller: Jim Owletz
Drill Rig: B-47
Sample Spoon I.D.: 2"
Date Started: 8/4/92
Geologist: Keith S. Robins
Drilling Method: Hollow Stem Auger
Drive Hammer Wt.: 140 lbs.
Date Completed: 8/4/92

Borehole Completion Depth: 32'
Borehole Diameter: 8"
Ground Surface El.: _____

DEPTH (FT.)	SAMPLE NO.	SAMPLING INTERVAL	RECOVERY/ RQD	BLOWS/6"	HEADSPACE (PPM)	SAMPLE DESCRIPTION
-0-						
2						0-10' Brown, medium-coarse. Sand, little gravel, trace silt.
4						
6						
8						
10						
12						10'-20' Brown-Tan coarse sand, abundant fn grave and, some cobbles, trace silt, poorly sorted
14						
16						
18						
20						

Remarks: No split spoons taken, Soil Sample 24-26, sent for lab analysis

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

BL

BORING LOG

DVIRKA AND BARTILUCCI

Project No.: 1167
Project Name: Grumman Aerospace

Well/Boring No.: SG-BH-3
Sheet 1 of 2
By: KSR Date: 8/4/92
Chk'd: _____ Date: _____

Drilling Contractor: Fenley and Nicol
Driller: Unomuteg Geologist: Keith S. Robins
Drill Rig: B-47 Drilling Method: Hollow Stem Auger
Sample Spoon I.D.: 2" Drive Hammer Wt.: 140 lbs.
Date Started: 8/4/92 Date Completed: 8/4/92

Borehole Completion Depth: 32'
Borehole Diameter: 8"
Ground Surface El.: _____

DEPTH (FT.)	SAMPLE NO.	SAMPLING INTERVAL	RECOVERY/ RQD	BLOWS/6"	HEADSPACE (PPM)	SAMPLE DESCRIPTION
20-21-	S-1	20-22	16"	9,13,18 20	0	Brown - course-medium, subrnd qtz Sand, little fine gravel, tr. cobbles, tr silt poorly sorted damp
22-23-	S-2	22-24	12"	10,15/1	0	Brown - LT tan course Qtz Sand little (+) fm gravel, trace silt, poorly Sorted, trace cobbles. damp
24-25-	S-3	24-26	18"	4,11, 17,12	0	Brown - Lt orange, m-c, subrnd Qtz Sand some fn(+)c gravel, poorly sorted, loose, damp
26-27-	S-4	26-28	22"	10,13, 24,22	0	Tan medium subrnd Qtz Sand, little fine gravel, trace silt, trace dk minerals, well graded. (damp)
28-29-	S-5	28-30	NA	26,35 30,35	—	NO Recovery Due to obstruction
30-32-	S-6	30-32	20"	10,15 18,20	0	Brown - Lt orange course Qtz Sand, some - fm gravel, tr silt poorly sorted, fe Staing, loose, damp)

Remarks: Changed vertical scale to every 1 ft

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

BL

BORING LOG

DVIRKA AND BARTILUCCI

Project No.: 1167
Project Name: Grumman Aerospace

Well/Boring No.: SB-MW-1
Sheet 1 of 1
By: KSR Date: 8/5
Chk'd: _____ Date: _____

Drilling Contractor: Fenley and Nicol
Driller: Jim Bmuletz Geologist: Keith S. Robins
Drill Rig: B-47 Drilling Method: Hollow Stem Auger
Sample Spoon I.D.: 2" Drive Hammer Wt.: 140 lbs.
Date Started: 8/5/92 Date Completed: 8/5/92

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

DEPTH (FT.)	SAMPLE NO.	SAMPLING INTERVAL	RECOVERY/ RQD	BLOWS/6"	HEADSPACE (PPM)	SAMPLE DESCRIPTION
-0-						
1-	S-1	0-2	20"	5, 13, 16, 17	0	0-4" grass + Roots, with dk brown soft loamy soil 4"-20" LT brown, m-c subrnd Qtz Sand, some fm gravel, little silt dry
2-						
3-	S-2	2-4	15"	13, 20, 30, 30	0	Tan m(+)-c, Qtz Sand, little fm subrnd-subang. gravel, tr. silt, tr. dk min, poorly sorted dry
4-						
5-	S-3	4-6	20"	8, 30, 49, 55	0	Brown-orange coarse Qtz Sand, some fm gravel and trace cobbles, poorly sorted Fe staining dry
6-						
7-	S-4	6-8	20"	14, 24, 35, 26	0	Brown-Lt orange m-c, Qtz Sand, some-little fm gravel, tr. silt, tr dk min, Fe staining, poorly sorted, loose. dry.
8-						
9-	S-5	8-10	18"	9, 12, 14, 14	0	Brown coarse subrnd Qtz Sand, some fm subangular gravel, trace cobbles, tr silt, very poorly sorted loose damp
10-						

Remarks: Soil sample at (4-6'), sent for lab analysis

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

BL

BORING LOG

DVIRKA AND BARTILUCCI

Project No.: 1167
Project Name: Grumman Aerospace

Well/Boring No.: S6-MW-1
Sheet 1 of 2
By: KSR Date: 8/5
Chk'd: _____ Date: _____

Drilling Contractor: Fenley and Nicol
Driller: Jim Omletz
Drill Rig: B-47
Sample Spoon I.D.: 2"
Date Started: 8/5/92
Geologist: Keith S. Robins
Drilling Method: Hollow Stem Auger
Drive Hammer Wt.: 140 lbs.
Date Completed: 8/5/92

Borehole Completion Depth: 66'
Borehole Diameter: 8"
Ground Surface El.: _____

DEPTH (FT.)	SAMPLE NO.	SAMPLING INTERVAL	RECOVERY/ RQD	BLOWS/6"	HEADSPACE (PPM)	SAMPLE DESCRIPTION
12						
14	S-6	15-17	18"	5,17, 25,28	0	Brown - Lt Tan f(1) c(-) subrnd Sand, Little(-) fine Qtz gravel, tr. silt tr. dk min, poorly sorted. damp
16						
18						
20	S-7	20-22	19"	10,10, 19,15	0	LT Brown - Tan coarse Qtz subrnd Sand, Some(-) fm Qtz subrnd gravel, tr. silt, poorly sorted, very loose damp-moist
22						
24	S-8	25-27	20"	7,9,13, 15	0	LT brown very coarse(-) - medium sand Abundant fine subrnd Qtz gravel, tr. dk min, tr. silt, very loose poorly sorted damp
26						
28						
30	S-9	30-32	20"	7,12, 14,15	0	LT Brown, medium - coarse subrnd Sand, little fm gravel, tr. silt, tr. iron nodules, tr dk min moist
32						

Remarks: Vertical scale changed from 1' to 2'

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

BL

BORING LOG

DVIRKA AND BARTILUCCI

Project No.: 1167
Project Name: Grumman Aerospace

Well/Boring No.: S6-MW-1
Sheet 1 of 3
By: KSR Date: 8/5
Chk'd: _____ Date: _____

Drilling Contractor: Fenley and Nicol
Driller: Jim Omulety Geologist: Keith S. Robins
Drill Rig: B-47 Drilling Method: Hollow Stem Auger
Sample Spoon I.D.: 2" Drive Hammer Wt.: 140 lbs.
Date Started: 8/5/92 Date Completed: 8/5/92

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

DEPTH (FT.)	SAMPLE NO.	SAMPLING INTERVAL	RECOVERY/ RQD	BLOWS/6"	HEADSPACE (PPM)	SAMPLE DESCRIPTION
34						
36	S-10	35-37	21"	4,4, 6,11	0	LT Brown-Tan fine Qtz Sand, with layers of Gray clayey fine Sand, some (-) silt, tr muscovite, slight, plastic, well graded, very moist.
38						
40						
42	S-11	40-42	18"	2,9, 17,19	0	Gray-LT Tan fine subrnd Qtz Sand, mixed with thin brown clayey Sand layers, little silt, tr muscovite, Very well graded very moist
44						
46	S-12	45-47				LT Tan-LT white, very clean, very fine Qtz Sand, little silt, trace muscovite well graded very moist
48						
50	S-13	50-52	24"	4,8, 12,15	0	0-10" Gray-LT white very fine Qtz Sand, tr. muscovite, little silt, well graded
52						10"-24" LT gray-coarse Sand, mixed with Gray-brown clayey Sand dense, well graded. saturated
54						

Remarks:

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

BL

BORING LOG

DVIRKA AND BARTILUCCI

Project No.: 1167
Project Name: Grumman Aerospace

Well/Boring No.: S6-MW-1
Sheet 1 of 4
By: KSR Date: 8/5/92
Chk'd: _____ Date: _____

Drilling Contractor: Fenley and Nicol
Driller: Jim Ombletz
Drill Rig: B-47
Sample Spoon I.D.: 2"
Date Started: 8/5/92
Geologist: Keith S. Robins
Drilling Method: Hollow Stem Auger
Drive Hammer Wt.: 140 lbs.
Date Completed: 8/5/92

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

DEPTH (FT.)	SAMPLE NO.	SAMPLING INTERVAL	RECOVERY/ RQD	BLOWS/6"	HEADSPACE (PPM)	SAMPLE DESCRIPTION
56	SS4	55-57	24"	4,20, 20,50	0	Gray Lt White fine Sand, little(-) silt, 2" lense Gray clay, very plastic compact, piece of iron nodual, very well graded, trace muscovite, trace dark minerals. Saturated
58						
60						End of Boring 60'
62						
64						
66						
68						
70						
72						
74						
76						

Remarks:

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

BL

BORING LOG

DVIRKA AND BARTILUCCI

Project No.: 1167
Project Name: Grumman Aerospace

Well/Boring No.: 56-MW-2
Sheet 1 of 1
By: KSR Date: 8/10/92
Chk'd: _____ Date: _____

Drilling Contractor: Fenley and Nicol
Driller: Jim Ombety Geologist: Keith S. Robins
Drill Rig: B-47 Drilling Method: Hollow Stem Auger
Sample Spoon I.D.: 2" Drive Hammer Wt.: 140 lbs.
Date Started: 8/10/92 Date Completed: 8/10/92

Borehole Completion Depth: 20'
Borehole Diameter: 8"
Ground Surface El.: _____

DEPTH (FT.)	SAMPLE NO.	SAMPLING INTERVAL	RECOVERY/ RQD	BLOWS/6"	HEADSPACE (PPM)	SAMPLE DESCRIPTION
-0-						0 -3" Asphalt parking lot
1-	S-1	0-2	20"/24"	19,14, 24,28	0	3"-10" Black m-f sand, trace gravel 10"-20" Brown-Lt brown, medium sand, trace, MF-gravel damp-moist
2-						
3-	S-2	2-4	20"	14,5, 12,18	100	0-6" Black sandy silt, trace fine gravel slight odor, possible staining Compact (damp-moist) 6"-20" Brown-Lt orange, medium-coarse sand, trace fn gravel. damp.
4-						
5-	S-3	4-6	24"	12,15, 13,15	10	0-17" Black silt, trace fine gravel, trace cobble, compact. 17"-24" Brown sandy silt, trace fn gravel damp
6-						
7-	S-4	6-8	20"	9,26, 35,40	0	Lt Brown-Lt orange fm (f) c Qtz Sub rnd Sand, tr. silt, some fn gravel trace cobble, poorly sorted, loose. damp
8-						
9-	S-5	8-10	18"	19,20, 27,30	0	Brown-Lt orange, m-C, Qtz Sand, Fe staining, tr. silt, poorly sorted damp
10-						

Remarks: Soil sample 2-4, chosen for lab analysis,

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

BL

BORING LOG

DVIRKA AND BARTILUCCI

Project No.: 1167
Project Name: Grumman Aerospace

Well/Boring No.: SB-MW-2
Sheet 1 of 2
By: KSL Date: 8/10/92
Chk'd: _____ Date: _____

Drilling Contractor: Fenley and Nicol
Driller: Jim Omuleta Geologist: Keith S. Robins
Drill Rig: B-57 Drilling Method: Hollow Stem Auger
Sample Spoon I.D.: 2" Drive Hammer Wt.: 140 lbs.
Date Started: 8/10/92 Date Completed: 8/10/92

Borehole Completion Depth: 70'
Borehole Diameter: 8"
Ground Surface El.: _____

DEPTH (FT.)	SAMPLE NO.	SAMPLING INTERVAL	RECOVERY/ RQD	BLOWS/6"	HEADSPACE (PPM)	SAMPLE DESCRIPTION
12						
14	S-6	15-17	24"	9,18, 20,26	0	Lt Brown-Lt orange, medium-fine Sbrnd Qtz Sand, trace fm subangular gravel, well graded, tr. dk min. damp
16						
18						
20	S-7	20-22	23"	19,20 15,15	0	Lt Tan cmf Sand, some fn gravel, little silt lenses, tr dk. minerals, poorly sorted, tr. muscovite. damp
22						
24						
26	S-8	25-27	20"	5,12, 15,15	0	Lt Tan coarse Qtz Sand, some (+) fm (+) c gravel, tr silt, fe staining tr dk min, Very poorly sorted, loose damp
28						
30						
32	S-9	30-32	12"	13,16, 15,15	0	Lt Gray-Tan coarse Qtz Sand, little - some fm gravel, tr silt, trace cobble poorly sorted. damp

Remarks: Changed vertical scale from 1' to 2'

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

BL

BORING LOG

DVIRKA AND BARTILUCCI

Project No.: 1167
Project Name: Grumman Aerospace

Well/Boring No.: SG-MW-3
Sheet 1 of 3
By: KSR Date: 8/10/92
Chk'd: _____ Date: _____

Drilling Contractor: Fenley and Nicol
Driller: Jim Omletz Geologist: Keith S. Robins
Drill Rig: B-47 Drilling Method: Hollow Stem Auger
Sample Spoon I.D.: 2" Drive Hammer Wt.: 140 lbs.
Date Started: 8/10/92 Date Completed: 8/10/92

Borehole Completion Depth: 70'
Borehole Diameter: 8
Ground Surface El.: _____

DEPTH (FT.)	SAMPLE NO.	SAMPLING INTERVAL	RECOVERY/ RQD	BLOWS/6"	HEADSPACE (PPM)	SAMPLE DESCRIPTION
34						
36	S-10	35-37	24"	3,4, 7,10	0	0-5" Brown course sandy clay 5"-24" LT gray-brown clay, solid very plastic cohesive. (damp-moist)
38						
40						0-10" LT brown clay solid, very plastic cohesive
42	S-11	40-42	24"	3,4, 7,10	0	10"-24" Black - Light Gray clay very plastic cohesive damp-moist
44						
46	S-12	45-47	24"	3,4, 5,9	0	0-10" LT Brown clay, plastic, cohesive 10"-24" Black-gray dense clay little silt moist
48						
50						
52	S-13	50-52	20"	4,5, 6,10	0	0-12" Black clay, solid, dense cohesive. 12"-20" LT Gray-brown clayey silt, compact, tr. gravel, well layered. damp-moist
54						

Remarks:

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

BL

BORING LOG

DVIRKA AND BARTILUCCI

Project No.: 1167
Project Name: Grumman Aerospace

Well/Boring No.: S6-MW-3
Sheet 1 of 4
By: KSR Date: 8/10/92
Chk'd: _____ Date: _____

Drilling Contractor: Fenley and Nicol
Driller: Jim Omyletz
Drill Rig: B-47
Sample Spoon I.D.: 2"
Date Started: 8/10/92
Geologist: Keith S. Robins
Drilling Method: Hollow Stem Auger
Drive Hammer Wt.: 140 lbs.
Date Completed: 8/10/92

Borehole Completion Depth: 70'
Borehole Diameter: 8"
Ground Surface El.: _____

DEPTH (FT.)	SAMPLE NO.	SAMPLING INTERVAL	RECOVERY/ RQD	BLOWS/6"	HEADSPACE (PPM)	SAMPLE DESCRIPTION
55	S-14	55-57	24"	9,10, 15,25	0	0-10" Brown-gray black clay slightly plastic, cohesive damp-moist
57						10"-24" LT Brown fine subrnd Qtz Sand, little silt, tr. muscovite, well graded damp
59						
61	S-15	60-62	20"	3,5, 15,20	0	Gray-Brown fine Subrnd. Qtz Sand, Little-trace silt, well graded tr. muscovite Saturated
63						
65						
67	S-16	65-67	24"	5,8, 18,20	0	Brown-gray, fine sand, little silt, well graded. Saturated
69						
71						End of Boring 70'
73						
75						

Remarks:

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

BL

Appendix E

NYSDEC 046127

APPENDIX E

LABORATORY DATA

1A - NYSDEC

NYTEST ENVIRONMENTAL INC.

VOLATILE ORGANICS ANALYSIS DATA SHEET

SAMPLE MATRIX: WATER
CONC. LEVEL: LOW
ANALYSIS DATE: 7/31/92

SAMPLE ID: S9-FB-S
LAB ID: 1343805
DIL FACTOR: 1.00
% MOISTURE: NA

UG/L

CMPD #	CAS Number	VOLATILE COMPOUNDS	
1	74-87-3	Chloromethane	0.5 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	2.9 B
6	75-35-4	1,1-Dichloroethene	0.1 U.
7	75-34-3	1,1-Dichloroethane	0.5 U.
8	156-60-5	1,2-Dichloroethene (trans)	0.5 U.
9	67-66-3	Chloroform	0.5 U.
10	107-06-2	1,2-Dichloroethane	0.1 U.
11	71-55-6	1,1,1-Trichloroethane	0.1 U.
12	56-23-5	Carbon Tetrachloride	0.5 U.
13	75-27-4	Bromodichloromethane	0.5 U.
14	78-87-5	1,2-Dichloropropane	0.5 U.
15	10061-01-5	cis-1,3-Dichloropropene	0.5 U.
16	79-01-6	Trichloroethene	0.5 U.
17	124-48-1	Dibromochloromethane	0.5 U.
18	79-00-5	1,1,2-Trichloroethane	0.1 U.
19	71-43-2	Benzene	1.0 U.
20	10061-02-6	trans-1,3-Dichloropropene	1.0 U.
21	75-25-2	Bromoform	1.0 U.
22	127-18-4	Tetrachloroethene	0.1 U.
23	79-34-5	1,1,2,2-Tetrachloroethane	0.1 U.
24	108-88-3	Toluene	1.0 U.
25	108-90-7	Chlorobenzene	1.0 U.
26	100-41-4	Ethylbenzene	1.0 U.
27	1330-20-7	Xylene (total)	1.0 U.
28	110-75-8	2-Chloroethylvinylether	0.5 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.

1A - NYSDEC
NYTEST ENVIRONMENTAL INC.

VOLATILE ORGANICS ANALYSIS DATA SHEET

SAMPLE MATRIX: SOIL
CONC. LEVEL: LOW
ANALYSIS DATE: 8/09/92

SAMPLE ID: S6-MW1-S
LAB ID: 1355301
DIL FACTOR: 1.00
% MOISTURE: 2

CMPD #	CAS Number	VOLATILE COMPOUNDS	UG/KG (DRY BASIS)
1	74-87-3	Chloromethane	0.5 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	11.0 B
6	75-35-4	1,1-Dichloroethene	0.1 U.
7	75-34-3	1,1-Dichloroethane	0.5 U.
8	156-60-5	1,2-Dichloroethene (trans)	0.5 U.
9	67-66-3	Chloroform	0.5 U.
10	107-06-2	1,2-Dichloroethane	0.1 U.
11	71-55-6	1,1,1-Trichloroethane	0.1 U.
12	56-23-5	Carbon Tetrachloride	0.5 U.
13	75-27-4	Bromodichloromethane	0.5 U.
14	78-87-5	1,2-Dichloropropane	0.5 U.
15	10061-01-5	cis-1,3-Dichloropropene	0.5 U.
16	79-01-6	Trichloroethene	0.5 U.
17	124-48-1	Dibromochloromethane	0.5 U.
18	79-00-5	1,1,2-Trichloroethane	0.1 U.
19	71-43-2	Benzene	1.0 U.
20	10061-02-6	trans-1,3-Dichloropropene	1.0 U.
21	75-25-2	Bromoform	1.0 U.
22	127-18-4	Tetrachloroethene	0.1 U.
23	79-34-5	1,1,2,2-Tetrachloroethane	0.1 U.
24	108-88-3	Toluene	1.0 U.
25	108-90-7	Chlorobenzene	1.0 U.
26	100-41-4	Ethylbenzene	1.0 U.
27	1330-20-7	Xylene (total)	1.0 U.
28	110-75-8	2-Chloroethylvinylether	0.5 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.

1A - NYSDEC

NYTEST ENVIRONMENTAL INC.

VOLATILE ORGANICS ANALYSIS DATA SHEET

SAMPLE MATRIX: SOIL
CONC. LEVEL: LOW
ANALYSIS DATE: 8/13/92

SAMPLE ID: S6-MW2-1S
LAB ID: 1360901
DIL FACTOR: 1.00
% MOISTURE: 10

CMPD #	CAS Number	VOLATILE COMPOUNDS	UG/KG (DRY BASIS)
1	74-87-3	Chloromethane	0.6 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	16.0 B
6	75-35-4	1,1-Dichloroethene	0.1 U.
7	75-34-3	1,1-Dichloroethane	0.6 U.
8	156-60-5	1,2-Dichloroethene (trans)	0.6 U.
9	67-66-3	Chloroform	0.6 U.
10	107-06-2	1,2-Dichloroethane	0.1 U.
11	71-55-6	1,1,1-Trichloroethane	0.1 U.
12	56-23-5	Carbon Tetrachloride	0.6 U.
13	75-27-4	Bromodichloromethane	0.6 U.
14	78-87-5	1,2-Dichloropropane	0.6 U.
15	10061-01-5	cis-1,3-Dichloropropene	0.6 U.
16	79-01-6	Trichloroethene	0.6 U.
17	124-48-1	Dibromochloromethane	0.6 U.
18	79-00-5	1,1,2-Trichloroethane	0.1 U.
19	71-43-2	Benzene	1.0 U.
20	10061-02-6	trans-1,3-Dichloropropene	1.0 U.
21	75-25-2	Bromoform	1.0 U.
22	127-18-4	Tetrachloroethene	0.1 U.
23	79-34-5	1,1,2,2-Tetrachloroethane	0.1 U.
24	108-88-3	Toluene	0.8 J
25	108-90-7	Chlorobenzene	1.0 U.
26	100-41-4	Ethylbenzene	1.0 U.
27	1330-20-7	Xylene (total)	1.0 U.
28	110-75-8	2-Chloroethylvinylether	0.6 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.

0000008

1A - NYSDEC

NYTEST ENVIRONMENTAL INC.

VOLATILE ORGANICS ANALYSIS DATA SHEET

SAMPLE MATRIX: SOIL — SAMPLE ID: R6-BH1-S

CONC. LEVEL: LOW — LAB ID: 1352801

ANALYSIS DATE: 8/07/92 — DIL FACTOR: 1.00

% MOISTURE: 3

CMPD #	CAS Number	VOLATILE COMPOUNDS	UG/KG (DRY BASIS)
1	74-87-3	Chloromethane	0.5 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	0.1 U.
7	75-34-3	1,1-Dichloroethane	0.5 U.
8	156-60-5	1,2-Dichloroethene (trans)	0.5 U.
9	67-66-3	Chloroform	0.5 U.
10	107-06-2	1,2-Dichloroethane	0.1 U.
11	71-55-6	1,1,1-Trichloroethane	0.1 U.
12	56-23-5	Carbon Tetrachloride	0.5 U.
13	75-27-4	Bromodichloromethane	0.5 U.
14	78-87-5	1,2-Dichloropropane	0.5 U.
15	10061-01-5	cis-1,3-Dichloropropene	0.5 U.
16	79-01-6	Trichloroethene	0.5 U.
17	124-48-1	Dibromochloromethane	0.5 U.
18	79-00-5	1,1,2-Trichloroethane	0.1 U.
19	71-43-2	Benzene	1.0 U.
20	10061-02-6	trans-1,3-Dichloropropene	1.0 U.
21	75-25-2	Bromoform	1.0 U.
22	127-18-4	Tetrachloroethene	0.1 U.
23	79-34-5	1,1,2,2-Tetrachloroethane	0.1 U.
24	108-88-3	Toluene	1.0 U.
25	108-90-7	Chlorobenzene	1.0 U.
26	100-41-4	Ethylbenzene	1.0 U.
27	1330-20-7	Xylene (total)	1.0 U.
28	110-75-8	2-Chloroethylvinylether	0.5 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.

0000008

1A - NYSDEC

NYTEST ENVIRONMENTAL INC.

VOLATILE ORGANICS ANALYSIS DATA SHEET

SAMPLE MATRIX: SOIL — SAMPLE ID: S6-BH2-5

CONC. LEVEL: LOW — LAB ID: 1353701

ANALYSIS DATE: 8/07/92 — DIL FACTOR: 1.00

% MOISTURE: 4

CMPD #	CAS Number	VOLATILE COMPOUNDS	UG/KG (DRY BASIS)
1	74-87-3	Chloromethane	0.5 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	0.1 U.
7	75-34-3	1,1-Dichloroethane	0.5 U.
8	156-60-5	1,2-Dichloroethene (trans)	0.5 U.
9	67-66-3	Chloroform	0.5 U.
10	107-06-2	1,2-Dichloroethane	0.1 U.
11	71-55-6	1,1,1-Trichloroethane	0.1 U.
12	56-23-5	Carbon Tetrachloride	0.5 U.
13	75-27-4	Bromodichloromethane	0.5 U.
14	78-87-5	1,2-Dichloropropane	0.5 U.
15	10061-01-5	cis-1,3-Dichloropropene	0.5 U.
16	79-01-6	Trichloroethene	0.5 U.
17	124-48-1	Dibromochloromethane	0.5 U.
18	79-00-5	1,1,2-Trichloroethane	0.1 U.
19	71-43-2	Benzene	1.0 U.
20	10061-02-6	trans-1,3-Dichloropropene	1.0 U.
21	75-25-2	Bromoform	1.0 U.
22	127-18-4	Tetrachloroethene	0.1 U.
23	79-34-5	1,1,2,2-Tetrachloroethane	0.1 U.
24	108-88-3	Toluene	1.0 U.
25	108-90-7	Chlorobenzene	1.0 U.
26	100-41-4	Ethylbenzene	1.0 U.
27	1330-20-7	Xylene (total)	1.0 U.
28	110-75-8	2-Chloroethylvinylether	0.5 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.

0000008

1A - NYSDEC

NYTEST ENVIRONMENTAL INC.

VOLATILE ORGANICS ANALYSIS DATA SHEET

SAMPLE MATRIX: SOIL — SAMPLE ID: S6-BH3-5

CONC. LEVEL: LOW — LAB ID: 1353702

ANALYSIS DATE: 8/07/92 — DIL FACTOR: 1.00

% MOISTURE: 3

CMPD #	CAS Number	VOLATILE COMPOUNDS	UG/KG (DRY BASIS)
1	74-87-3	Chloromethane	0.5 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	0.1 U.
7	75-34-3	1,1-Dichloroethane	0.5 U.
8	156-60-5	1,2-Dichloroethene (trans)	0.5 U.
9	67-66-3	Chloroform	0.5 U.
10	107-06-2	1,2-Dichloroethane	0.1 U.
11	71-55-6	1,1,1-Trichloroethane	0.1 U.
12	56-23-5	Carbon Tetrachloride	0.5 U.
13	75-27-4	Bromodichloromethane	0.5 U.
14	78-87-5	1,2-Dichloropropane	0.5 U.
15	10061-01-5	cis-1,3-Dichloropropene	0.5 U.
16	79-01-6	Trichloroethene	0.5 U.
17	124-48-1	Dibromochloromethane	0.5 U.
18	79-00-5	1,1,2-Trichloroethane	0.1 U.
19	71-43-2	Benzene	1.0 U.
20	10061-02-6	trans-1,3-Dichloropropene	1.0 U.
21	75-25-2	Bromoform	1.0 U.
22	127-18-4	Tetrachloroethene	0.1 U.
23	79-34-5	1,1,2,2-Tetrachloroethane	0.1 U.
24	108-88-3	Toluene	1.0 U.
25	108-90-7	Chlorobenzene	1.0 U.
26	100-41-4	Ethylbenzene	1.0 U.
27	1330-20-7	Xylene (total)	1.0 U.
28	110-75-8	2-Chloroethylvinylether	0.5 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.

0000009

nytest environmental inc

REPORT OF ANALYSIS

Log in No.: 13553

We find as follows:

Results in mg/kg (dry wt. basis) except where noted:

Sample Identification	Parameter(s)
	Total Petroleum Hydrocarbons
1355301 S6-MW1-S	142
Soil Method Blank	< 10.0

0000138

nytest environmental inc

REPORT OF ANALYSIS

Log in No.: 13609

We find as follows:

Results in mg/kg (dry wt. basis):

Sample Identification	Parameter(s)
	Total Petroleum Hydrocarbons
1360901 S6-MW2-S	220
Soil Method Blank	< 10.0

0000177

nytest environmental inc

REPORT OF ANALYSIS

Log in No.: 13528

We find as follows:

Results in mg/kg (dry wt. basis) except where noted:

Sample Identification	Parameter(s)
	Total Petroleum Hydrocarbons
1352801 R6-BH1-S	130
Soil Method Blank	< 10.0

0000314

nytest environmental inc

REPORT OF ANALYSIS

Log in No.: 13537

We find as follows:

Results in mg/kg (dry wt. basis):

Sample Identification	Parameter(s)
	Total Petroleum Hydrocarbons
1353701 S6-BH2-5	112
1353702 S6-BH3-5	98.9
Soil Method Blank	< 10.0

0000380

nytest environmental inc

REPORT OF ANALYSIS

Log In No.: 14185

We find as follows:

Results in ug/kg (dry wt. basis):

Sample Identification	Parameter(s)
	Total Petroleum Hydrocarbons (310-13)
1418516 S6-MW1-S	ND

ND = None Detected

U000022

nytest environmental inc

REPORT OF ANALYSIS

Log In No.: 14185

We find as follows:

Results in ug/kg (dry wt. basis):

Sample Identification	Parameter(s)
	Total Petroleum Hydrocarbons (310-13)
1418517 S6-MW2-S	ND

ND = None Detected

0000023

nytest environmental inc

REPORT OF ANALYSIS

Log In No.: 14185

We find as follows:

Results in ug/kg (dry wt. basis):

Sample Identification		Parameter(s)
		Total Petroleum Hydrocarbons (310-13)
1418513	R6-BH1-5	ND

ND = None Detected

0000019

nytest environmental inc

REPORT OF ANALYSIS

Log In No.: 14185

We find as follows:

Results in ug/kg (dry wt. basis):

Sample Identification	Parameter(s)
	Total Petroleum Hydrocarbons (310-13)
1418514 S6-BH2-5	ND

ND = None Detected

0000020

nytest environmental inc

REPORT OF ANALYSIS

Log In No.: 14185

We find as follows:

Results in ug/kg (dry wt. basis):

Sample Identification	Parameter(s)
	Total Petroleum Hydrocarbons (310-13)
1418515 S6-BH3-5	ND

ND = None Detected

0000021

U.S. EPA - CLP

1

INORGANIC ANALYSIS DATA SHEET

EPA SAMPLE NO.

FB0727

Lab Name: NYTEST ENVIRONMENTAL INC. Contract: 9218699

Lab Code: 10195 Case No.: 13438 SAS No.: SDG No.: SDG694

Matrix (soil/water): WATER Lab Sample ID: 438-05

Level (low/med): LOW Date Received: 07/27/92

% Solids: 0.0

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

CAS No.	Analyte	Concentration	C	Q	M
7429-90-5	Aluminum				
7440-36-0	Antimony	55.2	U		P
7440-38-2	Arsenic	5.0	U	W	F
7440-39-3	Barium				
7440-41-7	Beryllium	1.0	U		P
7440-43-9	Cadmium	4.8	U		P
7440-70-2	Calcium				
7440-47-3	Chromium	6.5	U		P
7440-48-4	Cobalt				
7440-50-8	Copper	6.4	U		P
7439-89-6	Iron				
7439-92-1	Lead	3.0	U		F
7439-95-4	Magnesium				
7439-96-5	Manganese				
7439-97-6	Mercury	0.20	U		CV
7440-02-0	Nickel	16.8	U		P
7440-09-7	Potassium				
7782-49-2	Selenium	5.0	U		F
7440-22-4	Silver	9.3	U		P
7440-23-5	Sodium				
7440-28-0	Thallium	5.0	U		F
7440-62-2	Vanadium				
7440-66-6	Zinc	4.3	U		P
	Cyanide				

Color Before: COLORLESS Clarity Before: CLEAR Texture:

Color After: COLORLESS Clarity After: CLEAR Artifacts:

Comments:
S9-FB-S

NYSDEC 046144

U.S. EPA - CLP

EPA SAMPLE NO.

1

INORGANIC ANALYSIS DATA SHEET

R6BH1S

Lab Name: Nytest Environmental Inc. Contract: 9218699

Lab Code: 10195 Case No.: 13528 SAS No.: SDG No.: SDG717

Matrix (soil/water): SOIL Lab Sample ID: 528-01

Level (low/med): LOW Date Received: 08/03/92

% Solids: 96.6

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

CAS No.	Analyte	Concentration	C	Q	M
7429-90-5	Aluminum				
7440-36-0	Antimony	11.4	U		P
7440-38-2	Arsenic	1.0	U		F
7440-39-3	Barium				
7440-41-7	Beryllium	0.21	U		P
7440-43-9	Cadmium	0.99	U		P
7440-70-2	Calcium				
7440-47-3	Chromium	6.0			P
7440-48-4	Cobalt				
7440-50-8	Copper	1.3	U		P
7439-89-6	Iron				
7439-92-1	Lead	1.3			F
7439-95-4	Magnesium				
7439-96-5	Manganese				
7439-97-6	Mercury	0.10	U		CV
7440-02-0	Nickel	6.1	B		P
7440-09-7	Potassium				
7782-49-2	Selenium	1.0	U		F
7440-22-4	Silver	1.9	U		P
7440-23-5	Sodium				
7440-28-0	Thallium	1.0	U		F
7440-62-2	Vanadium				
7440-66-6	Zinc	8.7			P
	Cyanide				

Color Before: BROWN Clarity Before: Texture: MEDIUM

Color After: COLORLESS Clarity After: CLEAR Artifacts:

Comments:
R6-BH1-S

U.S. EPA - CLP

1

INORGANIC ANALYSES DATA SHEET

EPA SAMPLE NO.

S6BH25

Lab Name: NYTEST_ENVIRONMENTAL_INC. Contract: 10195

Lab Code: 10195 Case No.: 13537 SAS No.: SDG No.: S6BH25

Matrix (soil/water): SOIL Lab Sample ID: 537-01

Level (low/med): LOW Date Received: 08/04/92

% Solids: 96.5

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	11.4	U	N	P
7440-38-2	Arsenic	1.0	U		F
7440-39-3	Barium				NR
7440-41-7	Beryllium	62.2	Q	*	P
7440-43-9	Cadmium	1.0	U		P
7440-70-2	Calcium				NR
7440-47-3	Chromium	2.5			P
7440-48-4	Cobalt				NR
7440-50-8	Copper	4.0	B		P
7439-89-6	Iron				NR
7439-92-1	Lead	3.4		N*	F
7439-95-4	Magnesium				NR
7439-96-5	Manganese				NR
7439-97-6	Mercury	0.10	U		CV
7440-02-0	Nickel	4.3	B		P
7440-09-7	Potassium				NR
7782-49-2	Selenium	1.0	U		F
7440-22-4	Silver	1.9	U	N	P
7440-23-5	Sodium				NR
7440-28-0	Thallium	1.0	U		F
7440-62-2	Vanadium				NR
7440-66-6	Zinc	10.2		N	P
5955-70-0	Cyanide				NR

Color Before: BROWN Clarity Before: Texture: FINE

Color After: COLORLESS Clarity After: CLEAR Artifacts:

Comments:

S6-BH2-5

FORM I - IN

ILMO2.1

0000154

1

INORGANIC ANALYSES DATA SHEET

EPA SAMPLE NO.

S6BH35

Lab Name: NYTEST_ENVIRONMENTAL_INC. Contract: 10195

Lab Code: 10195 Case No.: 13537 SAS No.: SDG No.: S6BH25

Matrix (soil/water): SOIL Lab Sample ID: 537-02

Level (low/med): LOW Date Received: 08/04/92

% Solids: 97.1

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	11.3	U	N	P
7440-38-2	Arsenic	1.0	U		F
7440-39-3	Barium				NR
7440-41-7	Beryllium	0.21	U	*	P
7440-43-9	Cadmium	1.0	U		P
7440-70-2	Calcium				NR
7440-47-3	Chromium	3.5			P
7440-48-4	Cobalt				NR
7440-50-8	Copper	2.9	B		P
7439-89-6	Iron				NR
7439-92-1	Lead	3.0		N*	F
7439-95-4	Magnesium				NR
7439-96-5	Manganese				NR
7439-97-6	Mercury	0.10	U		CV
7440-02-0	Nickel	3.5	U		P
7440-09-7	Potassium				NR
7782-49-2	Selenium	1.0	U		F
7440-22-4	Silver	1.9	U	N	P
7440-23-5	Sodium				NR
7440-28-0	Thallium	1.0	U		F
7440-62-2	Vanadium				NR
7440-66-6	Zinc	7.3		N	P
5955-70-0	Cyanide				NR

Color Before: BROWN Clarity Before: Texture: FINE

Color After: COLORLESS Clarity After: CLEAR Artifacts:

Comments:

S6-BH3-5

1A

VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

FIELDBLK

Lab Name: NYTEST ENV INC Contract: 9218699

Lab Code: NYTEST Case No.: I3822 SAS No.: _____ SDG No.: _____

Matrix: (soil/water) WATER Lab Sample ID: 1382204

Sample wt/vol: 5.0 (g/mL) ML Lab File ID: D1758

Level: (low/med) LOW Date Received: 08/27/92

% Moisture: not dec. ____ Date Analyzed: 09/03/92

GC Column: PACK ID: 2.00 (mm) Dilution Factor: 1.0

Soil Extract Volume: _____ (uL) Soil Aliquot Volume: _____(uL)

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

0000012

NYSDEC 046148

1A

VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

TRIPBLK

Lab Name: NYTEST ENV INC Contract: 9218699

Lab Code: NYTEST Case No.: 13822 SAS No.: _____ SDG No.: _____

Matrix: (soil/water) WATER Lab Sample ID: 1382205

Sample wt/vol: 5.0 (g/mL) ML Lab File ID: D1757

Level: (low/med) LOW Date Received: 08/27/92

% Moisture: not dec. ____ Date Analyzed: 09/03/92

GC Column: PACK ID: 2.00 (mm) Dilution Factor: 1.0

Soil Extract Volume: _____ (uL) Soil Aliquot Volume: _____(uL)

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

0000018

NYSDEC 046149

1A

VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

TRIPBLK

Lab Name: NYTEST ENV INC Contract: _____

Lab Code: NYTEST Case No.: 11142 SAS No.: _____ SDG No.: _____

Matrix: (soil/water) WATER Lab Sample ID: 1387607

Sample wt/vol: 5.0 (g/mL) ML Lab File ID: D1784

Level: (low/med) LOW Date Received: 08/31/92

% Moisture: not dec. ___ Date Analyzed: 09/04/92

GC Column: PACK ID: 2.00 (mm) Dilution Factor: 1.0

Soil Extract Volume: _____ (ul) Soil Aliquot Volume: _____(uL)

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

0000016

NYSDEC 046150

1A

VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

TRIPBLK

Lab Name: NYTEST ENV INC Contract: _____

Lab Code: NYTEST Case No.: 11187 SAS No.: _____ SDG No.: _____

Matrix: (soil/water) WATER Lab Sample ID: 1390504

Sample wt/vol: 5.0 (g/mL) ML Lab File ID: C8951

Level: (low/med) LOW Date Received: 09/02/92

% Moisture: not dec. ____ Date Analyzed: 09/09/92

GC Column: PACK ID: 2.00 (mm) Dilution Factor: 1.0

Soil Extract Volume: _____ (uL) Soil Aliquot Volume: _____(uL)

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

0000012

NYSDEC 046151

1A

VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

TRIPBLK

Lab Name: NYTEST ENV INC Contract:

Lab Code: NYTEST Case No.: 11187 SAS No.: SDG No.:

Matrix: (soil/water) WATER Lab Sample ID: 1390504

Sample wt/vol: 5.0 (g/mL) ML Lab File ID: C8951

Level: (low/med) LOW Date Received: 09/02/92

% Moisture: not dec. Date Analyzed: 09/09/92

GC Column: PACK ID: 2.00 (mm) Dilution Factor: 1.0

Soil Extract Volume: (uL) Soil Aliquot Volume: (uL)

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

0000049

NYSDEC 046152

1A

VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

S6-MW-1

Lab Name: NYTEST ENV INC Contract: _____

Lab Code: NYTEST Case No.: 11142 SAS No.: _____ SDG No.: _____

Matrix: (soil/water) WATER Lab Sample ID: 1387606

Sample wt/vol: 5.0 (g/mL) ML Lab File ID: D1803

Level: (low/med) LOW Date Received: 08/31/92

% Moisture: not dec. ____ Date Analyzed: 09/05/92

GC Column: PACK ID: 2.00 (mm) Dilution Factor: 1.0

Soil Extract Volume: _____ (ul) Soil Aliquot Volume: _____(ul)

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

0000012

NYSDEC 046153

1A

VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

S6-MW2

Lab Name: NYTEST ENV INC Contract: _____

Lab Code: NYTEST Case No.: 11187 SAS No.: _____ SDG No.: _____

Matrix: (soil/water) WATER Lab Sample ID: 1390503

Sample wt/vol: 5.0 (g/mL) ML Lab File ID: C8957

Level: (low/med) LOW Date Received: 09/02/92

% Moisture: not dec. ____ Date Analyzed: 09/09/92

GC Column: PACK ID: 2.00 (mm) Dilution Factor: 1.0

Soil Extract Volume: _____ (uL) Soil Aliquot Volume: _____(uL)

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

0000010

NYSDEC 046154

1A

VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

USGS10594

Lab Name: NYTEST ENV INC Contract:

Lab Code: NYTEST Case No.: 11187 SAS No.: SDG No.:

Matrix: (soil/water) WATER Lab Sample ID: 1389003

Sample wt/vol: 5.0 (g/mL) ML Lab File ID: 01809

Level: (low/med) LOW Date Received: 08/31/92

% Moisture: not dec. Date Analyzed: 09/05/92

GC Column: PACK ID: 2.00 (mm) Dilution Factor: 1.0

Soil Extract Volume: (uL) Soil Aliquot Volume: (uL)

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

1A

VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

S8-MW-1

Lab Name: NYTEST ENV INC Contract:

Lab Code: NYTEST Case No.: 11187 SAS No.: SDG No.:

Matrix: (soil/water) WATER Lab Sample ID: 1389001

Sample wt/vol: 5.0 (g/mL) ML Lab File ID: 01807

Level: (low/med) LOW Date Received: 08/31/92

% Moisture: not dec. Date Analyzed: 09/05/92

GC Column: PACK ID: 2.00 (mm) Dilution Factor: 1.0

Soil Extract Volume: (uL) Soil Aliquot Volume: (uL)

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

1A

VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

S9-MW-1

Lab Name: NYTEST ENV INC Contract: _____

Lab Code: NYTEST Case No.: 11142 SAS No.: _____ SDG No.: _____

Matrix: (soil/water) WATER Lab Sample ID: 1387601

Sample wt/vol: 5.0 (g/mL) ML Lab File ID: 01786

Level: (low/med) LOW Date Received: 08/31/92

% Moisture: not dec. ____ Date Analyzed: 09/04/92

GC Column: PACK ID: 2.00 (mm) Dilution Factor: 1.0

Soil Extract Volume: _____ (uL) Soil Aliquot Volume: _____(uL)

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

0000014

NYSDEC 046157

1A

VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

GM-16S

Lab Name: NYTEST ENV INC Contract: 9218699

Lab Code: NYTEST Case No.: 13933 SAS No.: _____ SDG No.: _____

Matrix: (soil/water) WATER Lab Sample ID: 1393302

Sample wt/vol: 5.0 (g/mL) ML Lab File ID: D1863

Level: (low/med) LOW Date Received: 09/03/92

% Moisture: not dec. ____ Date Analyzed: 09/10/92

GC Column: PACK ID: 2.00 (mm) Dilution Factor: 1.0

Soil Extract Volume: _____ (uL) Soil Aliquot Volume: _____(uL)

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

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INORGANIC ANALYSES DATA SHEET

EPA SAMPLE NO.

FLDBLK

Lab Name: NYTEST_ENVIRONMENTAL_INC. Contract: 9218699___

Lab Code: 10195_ Case No.: 13822_ SAS No.: _____ SDG No.: B28MW1

Matrix (soil/water): WATER Lab Sample ID: 822-04___

Level (low/med): LOW__ Date Received: 08/27/92

Solids: __0.0

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

CAS No.	Analyte	Concentration	C	Q	M
7429-90-5	Aluminum_		-		NR
7440-36-0	Antimony_	55.0	U		P_
7440-38-2	Arsenic__	5.0	U		F_
7440-39-3	Barium___		-		NR
7440-41-7	Beryllium	1.0	U		P_
7440-43-9	Cadmium__	5.0	U		P_
7440-70-2	Calcium__		-		NR
7440-47-3	Chromium_	6.0	U		P_
7440-48-4	Cobalt___		-		NR
7440-50-8	Copper___	6.0	U		P_
7439-89-6	Iron_____		-		NR
7439-92-1	Lead_____	3.0	U		F_
7439-95-4	Magnesium		-		NR
7439-96-5	Manganese		-		NR
7439-97-6	Mercury__	0.20	U		CV
7440-02-0	Nickel___	17.0	U		P_
7440-09-7	Potassium		-		NR
7782-49-2	Selenium_	5.0	U		F_
7440-22-4	Silver___	9.0	U		P_
7440-23-5	Sodium___		-		NR
7440-28-0	Thallium_	5.0	U		F_
7440-62-2	Vanadium_		-		NR
7440-66-6	Zinc_____	4.0	U		P_
5955-70-0	Cyanide__		-		NR

Color Before: COLORLESS Clarity Before: CLEAR_ Texture: _____

Color After: COLORLESS Clarity After: CLEAR_ Artifacts: _____

Comments:

FIELD_BLK

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INORGANIC ANALYSES DATA SHEET

EPA SAMPLE NO.

S6-MW1

Lab Name: NYTEST_ENVIRONMENTAL_INC. Contract: 9218699___

Lab Code: 10195_ Case No.: 13876_ SAS No.: _____ SDG No.: SDG758

Matrix (soil/water): WATER Lab Sample ID: 876-06___

Level (low/med): LOW__ Date Received: 08/31/92

% Solids: __0.0

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

CAS No.	Analyte	Concentration	C	Q	M
7429-90-5	Aluminum_		_		NR
7440-36-0	Antimony_	55.0	U		P_
7440-38-2	Arsenic__	23.8	_	N	F_
7440-39-3	Barium___		_		NR
7440-41-7	Beryllium	1.0	U		P_
7440-43-9	Cadmium__	5.0	U		P_
7440-70-2	Calcium__		_		NR
7440-47-3	Chromium_	15.0	_		P_
7440-48-4	Cobalt___		_		NR
7440-50-8	Copper___	37.2	_		P_
7439-89-6	Iron____		_		NR
7439-92-1	Lead____	11.7	_		F_
7439-95-4	Magnesium		_		NR
7439-96-5	Manganese		_		NR
7439-97-6	Mercury__	0.45	_		CV
7440-02-0	Nickel___	17.0	U		P_
7440-09-7	Potassium		_		NR
7782-49-2	Selenium_	5.0	U		F_
7440-22-4	Silver___	9.0	U		P_
7440-23-5	Sodium___		_		NR
7440-28-0	Thallium_	5.0	U		F_
7440-62-2	Vanadium_		_		NR
7440-66-6	Zinc____	16.3	B		P_
5955-70-0	Cyanide__		_		NR

Color Before: BROWN____ Clarity Before: CLOUDY Texture: _____

Color After: COLORLESS Clarity After: CLEAR_ Artifacts: _____

Comments:

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INORGANIC ANALYSES DATA SHEET

EPA SAMPLE NO.: D6-MW1

Lab Name: NYTEST_ENVIRONMENTAL_INC. Contract: 9218699

Lab Code: 10195 Case No.: 13876 SAS No.: _____ SDG No.: SDG758

Matrix (soil/water): WATER Lab Sample ID: D876-6

Level (low/med): LOW Date Received: 08/31/92

% Solids: 0.0

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

CAS No.	Analyte	Concentration	C	Q	M
7429-90-5	Aluminum				NR
7440-36-0	Antimony	55.0	U		P
7440-38-2	Arsenic	25.0		N	F
7440-39-3	Barium				NR
7440-41-7	Beryllium	1.0	U		P
7440-43-9	Cadmium	5.0	U		P
7440-70-2	Calcium				NR
7440-47-3	Chromium	6.1	B		P
7440-48-4	Cobalt				NR
7440-50-8	Copper	37.2			P
7439-89-6	Iron				NR
7439-92-1	Lead	4.1			F
7439-95-4	Magnesium				NR
7439-96-5	Manganese				NR
7439-97-6	Mercury	0.34			CV
7440-02-0	Nickel	17.0	U		P
7440-09-7	Potassium				NR
7782-49-2	Selenium	5.0	U		F
7440-22-4	Silver	9.0	U		P
7440-23-5	Sodium				NR
7440-28-0	Thallium	5.0	U	W	F
7440-62-2	Vanadium				NR
7440-66-6	Zinc	13.5	B		P
5955-70-0	Cyanide				NR

Color Before: COLORLESS Clarity Before: CLEAR Texture: _____

Color After: COLORLESS Clarity After: CLEAR Artifacts: _____

Comments:

S6-MW1_DISSOLVED

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INORGANIC ANALYSES DATA SHEET

EPA SAMPLE NO.: S6-MW2

Lab Name: NYTEST_ENVIRONMENTAL_INC. Contract: 9218699___

Lab Code: 10195_ Case No.: 13905_ SAS No.: _____ SDG No.: DISS10

Matrix (soil/water): WATER Lab Sample ID: 905-03____

Level (low/med): LOW__ Date Received: 09/02/92

% Solids: __0.0

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

CAS No.	Analyte	Concentration	C	Q	M
7429-90-5	Aluminum_	_____	_	_____	NR
7440-36-0	Antimony_	55.0	U	_____	P_
7440-38-2	Arsenic__	5.0	U	__N___	F_
7440-39-3	Barium___	_____	_	_____	NR
7440-41-7	Beryllium	1.0	U	_____	P_
7440-43-9	Cadmium__	5.0	U	_____	P_
7440-70-2	Calcium__	_____	_	_____	NR
7440-47-3	Chromium_	6.0	U	_____	P_
7440-48-4	Cobalt___	_____	_	_____	NR
7440-50-8	Copper___	6.0	U	__N___	P_
7439-89-6	Iron_____	_____	_	_____	NR
7439-92-1	Lead_____	6.7	_	_____	F_
7439-95-4	Magnesium	_____	_	_____	NR
7439-96-5	Manganese	_____	_	_____	NR
7439-97-6	Mercury__	0.20	U	_____	CV
7440-02-0	Nickel___	32.8	B	_____	P_
7440-09-7	Potassium	_____	_	_____	NR
7782-49-2	Selenium_	5.0	U	_____	F_
7440-22-4	Silver___	9.0	U	__*___	P_
7440-23-5	Sodium___	_____	_	_____	NR
7440-28-0	Thallium_	5.0	U	_____	F_
7440-62-2	Vanadium_	_____	_	_____	NR
7440-66-6	Zinc_____	1020	_	__E___	P_
5955-70-0	Cyanide__	_____	_	_____	NR

Color Before: COLORLESS Clarity Before: CLEAR_ Texture: _____

Color After: COLORLESS Clarity After: CLEAR_ Artifacts: _____

Comments:

S6-MW2_____

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INORGANIC ANALYSES DATA SHEET

EPA SAMPLE NO.

USGS10

Lab Name: NYTEST_ENVIRONMENTAL_INC. Contract: 9218699

Lab Code: 10195 Case No.: 13905 SAS No.: _____ SDG No.: DISS10

Matrix (soil/water): WATER Lab Sample ID: 905-01

Level (low/med): LOW Date Received: 09/02/92

% Solids: 0.0

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

CAS No.	Analyte	Concentration	C	Q	M
7429-90-5	Aluminum				NR
7440-36-0	Antimony	55.0	U		P
7440-38-2	Arsenic	5.0	U	N	F
7440-39-3	Barium				NR
7440-41-7	Beryllium	1.0	U		P
7440-43-9	Cadmium	5.0	U		P
7440-70-2	Calcium				NR
7440-47-3	Chromium	23.5			P
7440-48-4	Cobalt				NR
7440-50-8	Copper	114		N	P
7439-89-6	Iron				NR
7439-92-1	Lead	249			F
7439-95-4	Magnesium				NR
7439-96-5	Manganese				NR
7439-97-6	Mercury	0.54			CV
7440-02-0	Nickel	90.9			P
7440-09-7	Potassium				NR
7782-49-2	Selenium	5.0	U		F
7440-22-4	Silver	17.3		*	P
7440-23-5	Sodium				NR
7440-28-0	Thallium	5.0	U		F
7440-62-2	Vanadium				NR
7440-66-6	Zinc	208		E	P
5955-70-0	Cyanide				NR

Color Before: BROWN Clarity Before: CLEAR Texture: _____

Color After: COLORLESS Clarity After: CLEAR Artifacts: _____

Comments:

USGS10

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INORGANIC ANALYSES DATA SHEET

EPA SAMPLE NO.

DISS10

Lab Name: NYTEST_ENVIRONMENTAL_INC. Contract: 9218699___

Lab Code: 10195_ Case No.: 13905_ SAS No.: _____ SDG No.: DISS10

Matrix (soil/water): WATER Lab Sample ID: 905D01___

Level (low/med): LOW__ Date Received: 09/02/92

% Solids: __0.0

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

CAS No.	Analyte	Concentration	C	Q	M
7429-90-5	Aluminum_		_		NR
7440-36-0	Antimony_	55.0	U		P_
7440-38-2	Arsenic__	5.0	U	N	F_
7440-39-3	Barium___		_		NR
7440-41-7	Beryllium	1.0	U		P_
7440-43-9	Cadmium__	5.0	U		P_
7440-70-2	Calcium__		_		NR
7440-47-3	Chromium_	6.0	U		P_
7440-48-4	Cobalt___		_		NR
7440-50-8	Copper___	6.0	U	N	P_
7439-89-6	Iron_____		_		NR
7439-92-1	Lead_____	3.0	U		F_
7439-95-4	Magnesium		_		NR
7439-96-5	Manganese		_		NR
7439-97-6	Mercury__	0.20	U		CV
7440-02-0	Nickel___	33.4	B		P_
7440-09-7	Potassium		_		NR
7782-49-2	Selenium_	5.0	U		F_
7440-22-4	Silver___	9.0	U	*	P_
7440-23-5	Sodium___		_		NR
7440-28-0	Thallium_	5.0	U		F_
7440-62-2	Vanadium_		_		NR
7440-66-6	Zinc_____	22.0	_	E	P_
5955-70-0	Cyanide__		_		NR

Color Before: COLORLESS Clarity Before: CLEAR_ Texture: _____

Color After: COLORLESS Clarity After: CLEAR_ Artifacts: _____

Comments:

USGS10594_DISSOLVED

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INORGANIC ANALYSES DATA SHEET

EPA SAMPLE NO.

S8MW-1

Lab Name: NYTEST_ENVIRONMENTAL_INC. Contract: 9218699___

Lab Code: 10195_ Case No.: 13890_ SAS No.: _____ SDG No.: SDG762

Matrix (soil/water): WATER Lab Sample ID: 890-01___

Level (low/med): LOW__ Date Received: 09/01/92

% Solids: __0.0

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

CAS No.	Analyte	Concentration	C	Q	M
7429-90-5	Aluminum_		_		NR
7440-36-0	Antimony_	55.0	U		P_
7440-38-2	Arsenic__	5.0	U		F_
7440-39-3	Barium___		_		NR
7440-41-7	Beryllium	1.0	U		P_
7440-43-9	Cadmium__	5.0	U		P_
7440-70-2	Calcium__		_		NR
7440-47-3	Chromium_	6.0	U		P_
7440-48-4	Cobalt___		_		NR
7440-50-8	Copper___	6.0	U		P_
7439-89-6	Iron_____		_		NR
7439-92-1	Lead____	3.0	U		F_
7439-95-4	Magnesium		_		NR
7439-96-5	Manganese		_		NR
7439-97-6	Mercury__	0.20	U		CV
7440-02-0	Nickel___	17.0	U		P_
7440-09-7	Potassium		_		NR
7782-49-2	Selenium_	5.0	U	W	F_
7440-22-4	Silver___	9.0	U		P_
7440-23-5	Sodium___		_		NR
7440-28-0	Thallium_	5.0	U	W	F_
7440-62-2	Vanadium_		_		NR
7440-66-6	Zinc_____	18.1	B		P_
5955-70-0	Cyanide__		_		NR

Color Before: COLORLESS Clarity Before: CLEAR_ Texture: _____

Color After: COLORLESS Clarity After: CLEAR_ Artifacts: _____

Comments:

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INORGANIC ANALYSES DATA SHEET

EPA SAMPLE NO.

S9-MW1

Lab Name: NYTEST_ENVIRONMENTAL_INC. Contract: 9218699

Lab Code: 10195 Case No.: 13876 SAS No.: SDG No.: SDG758

Matrix (soil/water): WATER Lab Sample ID: 876-01

Level (low/med): LOW Date Received: 08/31/92

% Solids: 0.0

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

CAS No.	Analyte	Concentration	C	Q	M
7429-90-5	Aluminum				NR
7440-36-0	Antimony	55.0	U		P
7440-38-2	Arsenic	5.0	U	N	F
7440-39-3	Barium				NR
7440-41-7	Beryllium	3.9	B		P
7440-43-9	Cadmium	5.0	U		P
7440-70-2	Calcium				NR
7440-47-3	Chromium	11.7			P
7440-48-4	Cobalt				NR
7440-50-8	Copper	21.2	B		P
7439-89-6	Iron				NR
7439-92-1	Lead	3.0	U	W	F
7439-95-4	Magnesium				NR
7439-96-5	Manganese				NR
7439-97-6	Mercury	0.20	U		CV
7440-02-0	Nickel	17.0	U		P
7440-09-7	Potassium				NR
7782-49-2	Selenium	5.0	U	W	F
7440-22-4	Silver	9.0	U		P
7440-23-5	Sodium				NR
7440-28-0	Thallium	5.0	U		F
7440-62-2	Vanadium				NR
7440-66-6	Zinc	16.1	B		P
5955-70-0	Cyanide				NR

Color Before: COLORLESS Clarity Before: CLEAR Texture:

Color After: COLORLESS Clarity After: CLEAR Artifacts:

Comments:

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INORGANIC ANALYSES DATA SHEET

EPA SAMPLE NO.

GM-16S

Lab Name: NYTEST_ENVIRONMENTAL_INC. Contract: 9218699

Lab Code: 10195 Case No.: 13933 SAS No.: SDG No.: SDG766

Matrix (soil/water): WATER Lab Sample ID: 933-02

Level (low/med): LOW Date Received: 09/03/92

% Solids: 0.0

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

CAS No.	Analyte	Concentration	C	Q	M
7429-90-5	Aluminum				NR
7440-36-0	Antimony	55.0	U		P
7440-38-2	Arsenic	5.0	U		F
7440-39-3	Barium				NR
7440-41-7	Beryllium	1.0	U		P
7440-43-9	Cadmium	5.0	U		P
7440-70-2	Calcium				NR
7440-47-3	Chromium	6.0	U		P
7440-48-4	Cobalt				NR
7440-50-8	Copper	6.0	U		P
7439-89-6	Iron				NR
7439-92-1	Lead	3.0	U	N	F
7439-95-4	Magnesium				NR
7439-96-5	Manganese				NR
7439-97-6	Mercury	0.20	U	*	CV
7440-02-0	Nickel	17.0	U		P
7440-09-7	Potassium				NR
7782-49-2	Selenium	5.0	U		F
7440-22-4	Silver	9.0	U	N	P
7440-23-5	Sodium				NR
7440-28-0	Thallium	5.0	U		F
7440-62-2	Vanadium				NR
7440-66-6	Zinc	4.0	U		P
5955-70-0	Cyanide				NR

Color Before: COLORLESS Clarity Before: CLEAR Texture:

Color After: COLORLESS Clarity After: CLEAR Artifacts:

Comments:

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