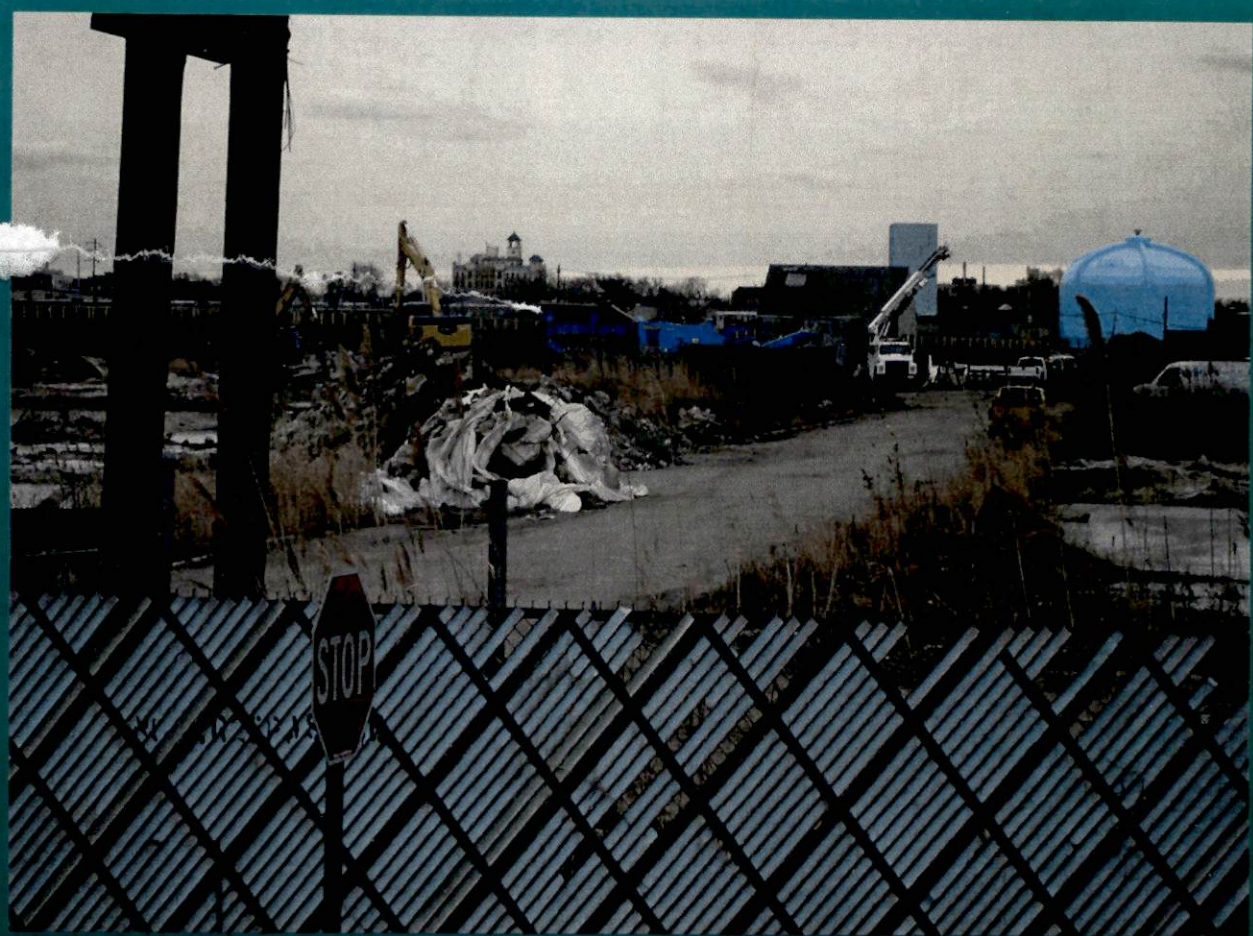
Former Cibro Petroleum Terminal Brownfield Redevelopment Project

7 Washington Avenue
Island Park, New York



March 2005
Brownfield Cleanup Program
Application

RECEIVED
APR 07 2005
REG 1 - OIL SPILLS

Mr. Nick Acampora, Project Manager
NYS DEC - Region 1
SUNY Campus
Building 40 Loop Road
Stony Brook, NY 11790-2356

NEW YORK STATE DEPARTMENT OF ENVIRONMENTAL CONSERVATION

BROWNFIELD CLEANUP PROGRAM (BCP) APPLICATION

ECL ARTICLE 27 / TITLE 14

10/9/03

Applicant Information

NAME - **Posillico Development Company at Harbor Island, Inc.**		
ADDRESS - **1610 New Highway**		
CITY/TOWN - **Farmingdale, New York**		ZIP CODE - **11735**
PHONE - **631-249-1872 ext. 282**	FAX -**631-752-3008**	E-MAIL - **elliskoch@msn.com**
NAME OF APPLICANT'S REPRESENTATIVE - **Linda Shaw, Esq.**		
ADDRESS - **Knauf Shaw LLP, 1125 Crossroads Building**		
CITY/TOWN - **Rochester, New York**		ZIP CODE - **14614**
PHONE - **585-546-8430**	FAX - **585-546-4324**	E-MAIL - **lshaw@nyenvlaw.com**

THE APPLICANT MUST CERTIFY THAT IT IS EITHER A PARTICIPANT OR VOLUNTEER IN ACCORDANCE WITH ECL § 27-1405 (1) BY CHECKING ONE OF THE BOXES BELOW:

❑ PARTICIPANT
An applicant who either 1) was the owner of the site at the time of the disposal of hazardous waste or discharge of petroleum or 2) is otherwise a person responsible for the contamination, unless the liability arises solely as a result of ownership, operation of, or involvement with the site subsequent to the disposal of hazardous waste or discharge of petroleum.

■ VOLUNTEER
An applicant other than a participant, including an applicant whose liability arises solely as a result of ownership, operation of or involvement with the site subsequent to the disposal of hazardous waste or discharge of petroleum.

NOTE: By checking this box, the applicant certifies that he/she has exercised appropriate care with respect to the hazardous waste found at the facility by taking Reasonable steps to: i) stop any continuing discharge; ii) prevent any threatened future release; and iii) prevent or limit human, environmental, or natural resource exposure to any previously released hazardous waste.

Applicant Relationship to Property (check one):

❑ Previous Owner ❑ Current Owner ■ Potential / Future Purchaser ❑ Other

Current Owner / Operator Information

OWNER'S NAME (if different from applicant) - **Blue Island Development, LLC (Paul Posillico, Manager)**		
ADDRESS - **1610 New Highway**		
CITY/TOWN - **Farmingdale, New York**		ZIP CODE - **11735**
PHONE - **613-249-1872 ext. 288**	FAX - **613-752-0780**	E-MAIL-**pposillico@jdposillico.com**
OPERATOR'S NAME (if different from applicant) - **Blue Water Environmental, Inc.**		
ADDRESS - **1610 New Highway**		
CITY/TOWN - **Farmingdale, New York**		ZIP CODE - **11735**
PHONE - **631-249-1872 ext. 288**	FAX - **631-752-0780**	E-MAIL-**pposillico@jdposillico.com**

RECEIVED
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BUREAU OF
TECHNICAL SUPPORT

Site Information

SITE NAME - **Former Cibro Petroleum Terminal Site**

SITE ADDRESS - **7 Washington Avenue** CITY/TOWN - **Island Park, New York** ZIP CODE - **11558**

COUNTY - **Nassau**	SITE SIZE (ACRES) - **approximately 11.56 acres**
LATITUDE - **40° 35' 54" N**	LONGITUDE - **73° 39' 33" W**

PLEASE ATTACH A COUNTY TAX MAP WITH IDENTIFIER NUMBERS, ALONG WITH ANY FIGURES NEEDED TO SHOW THE LOCATION AND BOUNDARIES OF THE SITE. ALSO INCLUDE A USGS 7.5 MINUTE QUAD MAP IN WHICH THE SITE IS LOCATED.

1. DO THE SITE BOUNDARIES CORRESPOND TO TAX MAP METES AND BOUNDS? IF NO, PLEASE ATTACH A METES AND BOUNDS DESCRIPTION OF THE SITE. **See APPENDIX: Figures 1, 2, and 3**	■ YES	❑ NO
2. IS THE SITE PART OF A DESIGNATED BROWNFIELD OPPORTUNITY AREA PURSUANT TO GML970-R? IF YES, IDENTIFY AREA (NAME)	❑YES	■ NO
3. IS THE SITE PART OF A DESIGNATED EN-Zone PURSUANT TO TL § 21(b)(6)? IF YES, IDENTIFY AREA (NAME)	❑YES	■ NO

Applicant Eligibility Information (Please refer to ECL § 27-1407)

1. ARE ANY ENFORCEMENT ACTIONS PENDING AGAINST THE APPLICANT REGARDING THIS SITE?	❑ YES	■ NO
2. IS THE APPLICANT SUBJECT TO AN OUTSTANDING CLAIM BY THE SPILL FUND FOR THIS SITE?	❑YES	■ NO
3. HAS THE APPLICANT VIOLATED ANY PROVISION OF ECL ARTICLE 27?	❑YES	■ NO
4. HAS THE APPLICANT BEEN PREVIOUSLY DENIED ENTRY TO THE BCP?	❑YES	■ NO
5. HAS THE APPLICANT COMMITTED A NEGLIGENT OR INTENTIONALLY TORTIOUS ACT REGARDING HAZARDOUS WASTE OR PETROLEUM?	❑YES	■ NO
6. HAS THE APPLICANT BEEN CONVICTED OF A CRIMINAL OFFENSE THAT INVOLVES A VIOLENT FELONY, FRAUD, BRIBERY, PERJURY, THEFT, OR OFFENSE AGAIN ST PUBLIC ADMINISTRATION?	❑YES	■ NO
7. HAS THE APPLICANT KNOWINGLY FALSIFIED STATEMENTS OR CONCEALED MATERIAL FACTS IN A MATTER RELATED TO THE DEPARTMENT?	❑YES	■ NO
8. HAS THE APPLICANT, BASED ON THE PROVISIONS OF ECL ARTICLE 27-1407 (OR A SIMILAR PROVISION OF FEDERAL OR STATE LAW), COMMITTED AN ACT OR FAILED TO ACT, AND SUCH ACT OR FAILURE TO ACT COULD BE THE BASIS FOR DENIAL OF A BCP APPLICATION?	❑ YES	■ NO

Site Eligibility Information (Please refer to ECL § 27-1405)

1. DOES THE SITE MEET THE DEFINITION OF A BROWNFIELD SITE (REAL PROPERTY, THE REDEVELOPMENT OR REUSE OF WHICH MAY BE COMPLICATED BY THE PRESENCE OR POTENTIAL PRESENCE OF A HAZARDOUS WASTE, PETROLEUM, POLLUTANT, OR CONTAMINANT)? **See APPENDIX on Site eligiblity**	■ YES	❑ NO
2. IS THE SITE LISTED ON THE NATIONAL PRIORITIES LIST?	❑ YES	■ NO
3. IS THE SITE LISTED ON THE NYS REGISTRY OF INACTIVE HAZARDOUS WASTE DISPOSAL SITES? IF YES, PLEASE PROVIDE: SITE # _____ CLASS # _____	❑ YES	■ NO
4. IS THE SITE SUBJECT TO A PERMIT UNDER ECL ARTICLE 27, TITLE 9, OTHER THAN AN INTERIM STATUS FACILITY?	❑ YES	■ NO
5. IS THE SITE SUBJECT TO A CLEANUP ORDER UNDER NAVIGATION LAW ARTICLE 12 OR ECL ARTICLE 17 TITLE 10?	❑ YES	■ NO *
***The Site is subject to a Stipulation Agreement, not an Order.**		
6. IS THE SITE SUBJECT TO A STATE OR FEDERAL ENFORCEMENT ACTION RELATED TO HAZARDOUS WASTE OR PETROLEUM?	❑YES	■ NO

Project Description

PLEASE ATTACH A DESCRIPTION OF THE PROJECT WHICH INCLUDES THE FOLLOWING COMPONENTS:

- PURPOSE AND SCOPE OF THE PROJECT ***SEE*** **APPENDIX: ITEM #1**
- ESTIMATED PROJECT SCHEDULE ***SEE*** **APPENDIX: ITEM #2**

Site's Environmental History

TO THE EXTENT THAT EXISTING INFORMATION/STUDIES/REPORTS ARE AVAILABLE TO THE APPLICANT, PLEASE ATTACH THE FOLLOWING:

1. **ENVIRONMENTAL DATA**
   A PHASE I ENVIRONMENTAL SITE ASSESSMENT REPORT PREPARED IN ACCORDANCE WITH ASTM 3 1527 (American Society for Testing Materials: Standard Practice for Environmental Site Assessments: Phase I Environmental Site Assessment Process), AND ALL ENVIRONMENTAL REPORTS RELATED TO CONTAMINANTS ON OR EMANATING FROM THE SITE. ***SEE* APPENDIX: ITEM #3**
   IF A FINAL INVESTIGATION REPORT IS INCLUDED, INDICATE WHETHER IT MEETS THE REQUIREMENTS OF ECL ARTICLE 27-1415(2):
   ❑YES ■ NO *** A Final Investigation Report is not attached, but significant sampling has been conducted at this Site and additional sampling is being performed as part of the attached IRM Pilot Test Work Plan as discussed with the Department during the pre-application meeting.**
2. **OWNERS**
   A LIST OF PREVIOUS OWNERS WITH NAMES, LAST KNOWN ADDRESSES AND TELEPHONE NUMBERS (DESCRIBE APPLICANT'S RELATIONSHIP, IF ANY, TO EACH PREVIOUS OWNER LISTED. IF NO RELATIONSHIP, PUT "NONE"). ***SEE* APPENDIX: ITEM #4**
3. **OPERATORS**
   A LIST OF PREVIOUS OPERATORS WITH NAMES, LAST KNOWN ADDRESSES AND TELEPHONE NUMBER (DESCRIBE APPLICANT'S RELATIONSHIP, IF ANY, TO EACH PREVIOUS OPERATOR LISTED. IF NO RELATIONSHIP, PUT "NONE"). ***SEE* APPENDIX: ITEM #4**

Contact List Information

PLEASE ATTACH, AT A MINIMUM, THE NAMES AND ADDRESSES OF THE FOLLOWING:

1. THE CHIEF EXECUTIVE OFFICER AND ZONING BOARD CHAIRPERSON OF EACH COUNTY, CITY, TOWN AND VILLAGE IN WHICH THE SITE IS LOCATED. ***SEE* APPENDIX: ITEM #5 FOR ALL CONTACT LIST INFORMATION RESPONSES**
2. RESIDENTS, OWNERS, AND OCCUPANTS OF THE SITE AND PROPERTIES ADJACENT TO THE SITE.
3. LOCAL NEWS MEDIA FROM WHICH THE COMMUNITY TYPICALLY OBTAINS INFORMATION.
4. THE PUBLIC WATER SUPPLIER WHICH SERVICES THE AREA IN WHICH THE SITE IS LOCATED.
5. ANY PERSON WHO HAS REQUESTED TO BE PLACED ON THE SITE CONTACT LIST.
6. THE ADMINISTRATOR OF ANY SCHOOL OR DAY CARE FACILITY LOCATED ON OR NEAR THE SITE.
7. THE LOCATION OF A DOCUMENT REPOSITORY FOR THE PROJECT (E.G., LOCAL LIBRARY)

Contaminant Information

INDICATE KNOWN OR SUSPECTED CONTAMINANTS AND THE MEDIA WHICH ARE KNOWN OR SUSPECTED TO HAVE BEEN AFFECTED:

Contaminant Category	Soil	Groundwater	Surface Water	Sediment	Soil Gas
Petroleum	✔	✔	✔		
Chlorinated Solvents					
Other VOC's					
SVOC's					
Metals					
Pesticides					
PCBs					
Other *					

* Please describe: _____

Land Use Factors (Please refer to ECL § 27-1415(3))

Current Use: ❑Residential ❑Commercial ■ Industrial ❑Other **Vacant Site Petroleum Bulk Storage Terminal was demolished.**

Future Use: ❑Residential ❑Commercial ■Industrial ❑Other _____

Please check the appropriate boxes and provide an explanation as an attachment if appropriate.

	Yes	No	Unknown
1. Do current historical and/or recent development patterns support the proposed use? ***SEE* APPENDIX: ITEM #6**	■	❑	❑
2. Is the proposed use consistent with applicable zoning laws/maps? ***SEE* APPENDIX: ITEM #6**	■	❑	❑

3. Is the proposed use consistent with applicable brownfield opportunity area designations? (See GML 970-r) ***SEE* APPENDIX: ITEM #6**	■	❑	❑
4. Is the proposed use consistent with applicable comprehensive community master plans, local waterfront revitalization plans, other adopted land use plans? ***SEE* APPENDIX: ITEM #6**	■	❑	❑
5. Are there any Environmental Justice Concerns? (See §27-1415(3)(p)). ***SEE* APPENDIX: ITEM #6**	❑	■	❑
6. Are there any federal or state land use designations relating to this site?	❑	■	❑
7. Do the population grown patterns and projections support the proposed use?	■	❑	❑
8. Is the site accessible to existing infrastructure?	■	❑	❑
9. Are there important cultural resources, including federal or state historic or heritage sites or Native American religious sites proximate to the site?	❑	■	❑
10. Are there important federal, state or local natural resources, including waterways, wildlife refuges, wetlands, or critical habitats of endangered or threatened species proximate to the site?	■	❑	❑
11. Are there floodplains proximate to the site?	■	❑	❑
12. Are there any institutional controls currently applicable to the site?	❑	■	❑
13. Describe on attachment the proximity to real property currently used for residential use, and to urban, commercial, industrial, agricultural, and recreational areas. ***SEE* APPENDIX: ITEM #6 and Figure 1**			
14. Describe on attachment the potential vulnerability of groundwater to contamination that might migrate from the site, including proximity to wellhead protection and groundwater recharge areas. ***SEE* APPENDIX: ITEM #6**			
15. Describe on attachment the geography and geology of the site. ***SEE* APPENDIX: ITEM #6**			
(Note: the 16th criteria relates to comments from the public, which would not be received at the time of application)			

Statement of Certification

(By an applicant other than an individual)
I certify that I am President (title) of Posillico Development Company at Harbor Island, Inc. (entity); that I am authorized by that entity to make this application; that this application was prepared by me or under my supervision and direction; and that information provided on this form and its attachments is true and complete to the best of my knowledge and belief. I am aware that any false statement made herein is punishable as a Class A misdemeanor pursuant to Section 210.45 of the Penal Law.

Date: 3/18/05 Signature: _____ Print Name: Michael J. Posillico

SUBMITTAL INFORMATION:

Four (4) complete copies, one with original signatures, are requierd.

- **Three (3)** of the copies, one with original signatures, must be sent to:

  Chief, Site Control Section
  New York State Department of Environmental Conservation
  Division of Environmental Remediation
  625 Broadway
  Albany, NY 12233-7020

- **One (1)** copy must be sent to the DEC regional contact in the regional office covering the county in which the site is located.
  Please check our website for the address of our regional offices: http://www.dec.state.ny.us/website/der/index.html

FOR DEPARTMENT USE ONLY

BCP SITE NO:_____ **BCP SITE T&A CODE:**_____ **PROJECT MANAGER:**_____

APPENDICES

BCP APPLICATION SUPPORT INFORMATION

SITE AND PROJECT DESCRIPTION

SITE BOUNDARIES AND ELIGIBLITY

The "Site" that is the subject of this application, with the property address 7 Washington Avenue, Island Park, New York, is depicted on the attached Figures 1, 2 and 3. See attached maps at Exhibit A. The property is identified on Nassau County tax maps as Section 43, Block 381, Lot 35, 36, 102, 314, and 328. Therefore, the site boundaries correspond to the tax maps for the Site.

The Site is an eligible brownfield site, which meets the statutory definition, and the new eligibility guidance criteria, because it is a former industrial petroleum tank farm site that is currently underutilized with significant documented contamination making the Site unattractive for development. The cost of the remediation is significant, even based on the planned industrial reuse of the Site. The remediation costs will likely exceed or be comparable to any redevelopment costs.

ITEM 1: PURPOSE AND SCOPE OF THE PROJECT.

The applicant intends to continue the industrial use of the property and expand into other economic uses permitted under the current Y industrial zoning for the Site.

Currently, the above ground storage tanks have been removed but the concrete tank bases and pilings of the former tanks still need to be removed, the property needs to be graded and the surface elevation raised above flood stage. Prior releases of petroleum by the former owner(s) have created contamination at levels that exceed current TAGM 4046 cleanup standards and petroleum is seeping into surrounding bays. Therefore, before the property can be fully used for any purpose the petroleum-contaminated soil needs to be remediated.

ITEM 2: ESTIMATED PROJECT SCHEDULE

The proposed project schedule is attached at Exhibit B.

SITE'S ENVIRONMENTAL HISTORY

ITEM 3: ENVIRONMENTAL DATA

Historical use of the property as a petroleum tank farm for fifty plus years from the 1940's until approximately 1990 has resulted in releases of petroleum-related chemicals that are the subject of on-going environmental investigation and remediation. Formerly, the property contained fourteen aboveground storage tanks (AST) totaling 17,675,000 gallons, and one 3000-gallon underground storage tank (UST). Petroleum soil contamination and seeps into the channel on the eastern side of the Site have been documented. Spill number #88-05691 was opened on the Site in 1988, the year Cibro Petroleum, the owner of the site from 1973 became bankrupt.

On November 2, 2000, Blue Island Development, LLC ("BI") purchased the former Cibro Brother's Terminal. Prior to this date of purchase, Cibro demolished all of the ASTs. The UST was allegedly removed prior to Cibro taking ownership of the Site. Therefore, at the time BI took title, all ASTs and allegedly the UST were no longer on the Site. The only structure that remained present at the time of purchase was a small building in the southern part of the Site. With respect to Site preparation, the Site still needs to be cleared and graded, all tank bases removed, and possibly the supporting piles also need to be removed. Costs to cure the environmental issues are anticipated to be extremely costly due to the location of the site and proximity to surface water.

On November 17, 2000, BI signed a Stipulation Agreement to remediate the property. BI performed two investigations to describe the extent of the contamination after the execution of the Stipulation Agreement. The environmental reports performed on the Site and attached to the Phase I Report include:

a. LawGibb Group, Site Investigation Workplan, November 9, 2000,
b. LawGibb Group, Cleanup Plan for Soil and Groundwater, February 2001,
c. LawGibb Group, Results of Supplemental Soil and Groundwater Investigation, August 6, 2001, and
d. Nelson, Pope & Voorhis, Environmental Assessment Form, Part III, Harbor Isle Estates, March 2002.

The results of LawGibb Group's investigation revealed that the east-southeast to central part

of the Site contains soil with total petroleum hydrocarbons (TPH) greater than 3000 milligrams per kilogram (mg/kg). A prior workplan to clean up the property to a residential standard estimated that 11,500 cubic yards of soil will need to be excavated and treated offsite. This represents the soil with TPH greater than 2500 mg/kg. The plan called for the remaining soil to be treated onsite.

ITEM 4: PRIOR OWNERS AND OPERATORS

Oil Products Corporation used the site as a petroleum bulk storage facility since the 1940's. There is currently no available information regarding this company in the possession of this applicant. In 1973, Cibro Oil Company purchased the site from Oil Products Corporation, and continued operating it as a bulk storage terminal through 1990. Sometime between 1990 and 2000 Cibro went bankrupt and no longer exists. On November 2, 2000, Blue Island Development LLC purchased the property at a bankruptcy court proceeding. Cibro still has a mailing address of 352 Jericho Turnpike, Jericho, New York 11753; telephone number 516-822-0500; fax 516-433-4210.

ITEM 5: CONTACT LIST INFORMATION

THE CHIEF EXECUTIVE OFFICER:
Kate Murray, Supervisor
Town of Hempstead
One Washington Street
Hempstead, New York 11550
(516) 489-5000

CITY ZONING DIRECTOR:
Joseph Nocella
Town of Hempstead
One Washington Street
Hempstead, New York 11550
(516) 489-5000

RESIDENTS, OWNERS, AND OCCUPANTS OF THE SITE AND PROPERTIES ADJACENT TO THE SITE:

A Brownfield Site Contact List, consisting of adjacent properties owners as well as nearby property owners and occupants (essentially including all of the residents in the surrounding neighborhood), is attached in Exhibit C. This broader list is being used because the applicant used this list during a recent rezoning effort. The applicant believes all of the same homeowners should be notified of this application.

LOCAL NEWS MEDIA FROM WHICH THE COMMUNITY TYPICALLY OBTAINS INFORMATION:

Oceanside Island Park Herald
Debbie Rosen
(516) 569-4000 ext. 287

Oceanside Beacon
Joseph Kellard
(516) 599-5400
fax (516) 599-3535

THE PUBLIC WATER SUPPLIER THAT SERVICES THE AREA IN WHICH THE SITE IS LOCATED:

Long Island American Water Corporation
733 Sunrise Highway
Lynbrook, New York 11563
(516) 596-4800

ANY PERSON WHO HAS REQUESTED TO BE PLACED ON THE SITE CONTACT LIST.

No one has requested to be put on the list to date. However, we intend to voluntarily send information regarding this project to a very broad list of residential neighbors in the surrounding local neighborhood.

THE ADMINISTRATOR OF ANY SCHOOL OR DAY CARE FACILITY LOCATED ON OR NEAR THE SITE.

Francis X. Hegarty Elementary School (0.6 miles from the site)
100 Radcliff Road
Island Park, New York 11558

Principal
Gloria F. Maffettone
(516) 431-4740

THE LOCATION OF A DOCUMENT REPOSITORY FOR THE PROJECT (E.G., LOCAL LIBRARY)

Island Park Public Library
176 Long Beach Road
Island Park, New York 11558

ITEM 6: ***LAND USE FACTORS***

1. Do current historical and/or recent development patterns support the proposed use? Yes. The Site has historically been used as an industrial site, and is currently zoned as "Y" Industrial.

2. Is the proposed use consistent with applicable zoning laws/maps? Yes. The Site is currently zoned as "Y" Industrial, and the proposed end use will be consistent with current zoning.

3. Is the proposed use consistent with applicable brownfield opportunity area designations? Yes, because the Site is a brownfield. However, there are currently no Brownfield Opportunity Areas in Island Park or any pending applications for such designation. DEC has informed the applicant that across the Wreck Lead Channel, there is a pending Brownfield Opportunity Area Application pending.

4. Is the proposed use consistent with applicable comprehensive community master plans, local waterfront revitalization plans, other adopted land use plans? The Site is currently zoned for industrial use in accordance with the local zoning plan. However, portions of the Nassau County Comprehensive Plan (page 2-30 in Nelson Pope & Voorhis, Draft Environmental Assessment Form) related to proposed area set forth various goals and policy recommendations which appear to encourage this area be used

for residential development. The applicant recently attempted to rezone this site for such residential use. However, the rezoning application was withdrawn.

5. Are there any Environmental Justice Concerns? (See §27-1415(3)(p)). No. The Site is zoned industrial and has a long petroleum chemical industrial past. The planned industrial reuse does not create environmental justice concerns.

6-12 Are answered as "yes" or "no"" on the application form itself.

13. Describe on attachment the proximity to real property currently used for residential use, and to urban, commercial, industrial, agricultural, and recreational areas. Since the Site is a peninsula, most of the Site itself is surrounded by water on the east and south sides. There is a working marina on the southwest side of the Site. The north and northwest side of the Site connects the peninsula to the residential neighborhood on Harbor Island. There are no urban, commercial, industrial (other than the site itself and marina), agricultural or recreational areas in proximity to the Site on the Island Park side of Wreck Lead Channel. There are industrial and commercial uses on the south side of the Channel.

14. Describe on attachment the potential vulnerability of groundwater to contamination that might migrate from the site, including proximity to wellhead protection and groundwater recharge areas. As can be seen from the attached maps in Exhibit A, the Site is a peninsula situated on an island separated from the mainland. The island is too small to store enough groundwater for public water supply purposes. Therefore, a municipal water supply company provides all potable water from wells located on the mainland.

Moreover, shallow groundwater would become saline very quickly if any appreciable pumping occurred due to the proximity of the saltwater bodies. The groundwater flow direction under the property is towards the surrounding marine waters, not back towards the center of the island, nor towards the mainland. Therefore, the property is not in a wellhead protection area. The concern regarding contaminant migration is to surface water in the surrounding water bodies, not groundwater.

15. Describe on attachment the geography and geology of the site. The consolidated material beneath the Island Park site consists predominately of fine to coarse-grained sand. A peat layer underlies the unconsolidated sand unit and is present at a depth of

approximately 9-feet bgs. The site-specific hydrogeologic conditions consist of a tidally influenced unconfined aquifer within the surficial fill material and glacial fluvial deposits. Tidal influence on groundwater levels reportedly ranges from one to four feet based on previous investigations performed by others.

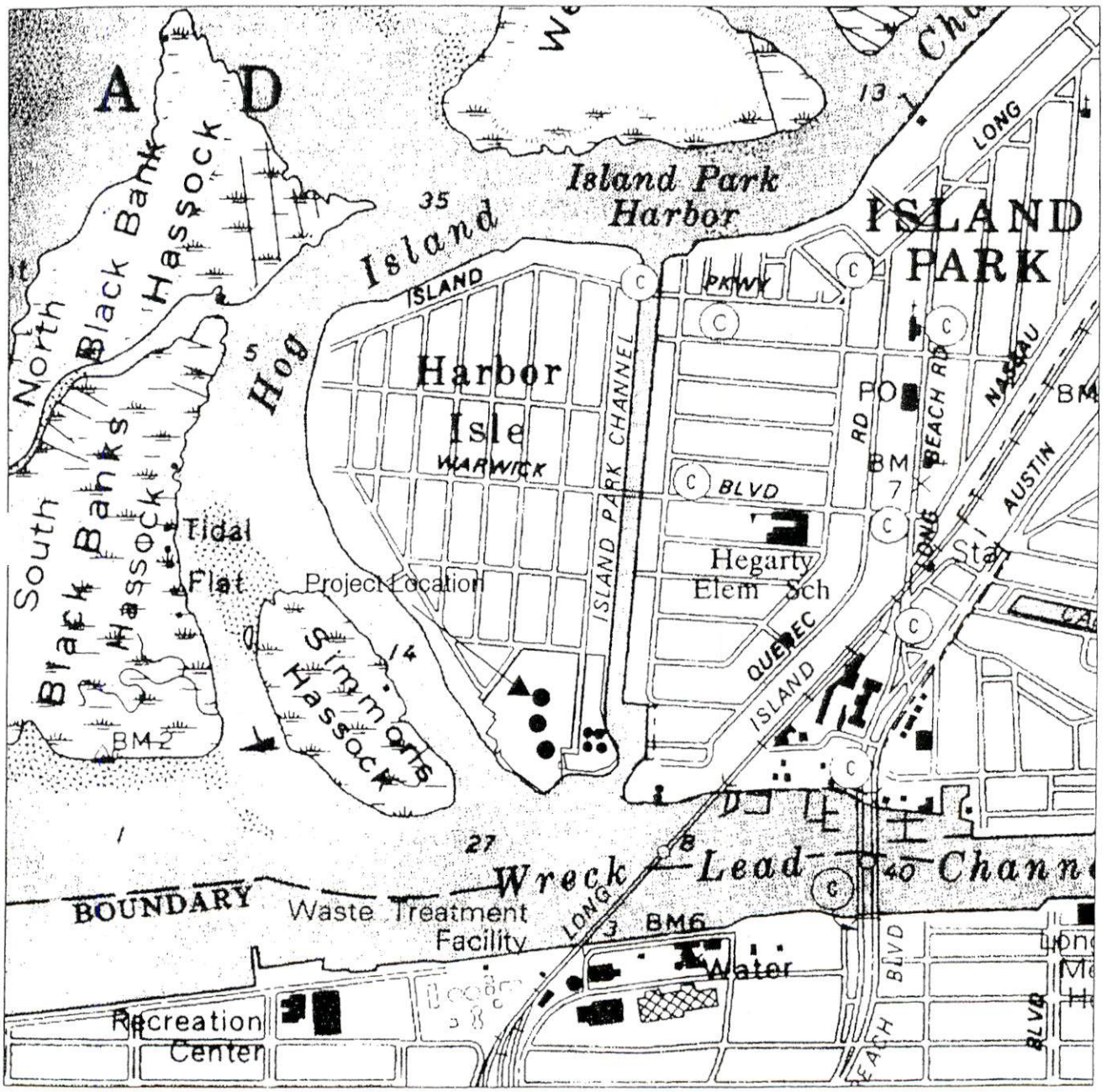
The depth to water ranges from three to five feet across the site. Groundwater generally flows south, but locally discharges to the Island Park Canal to the east, Wreck Lead Channel to the south and Simmons Hassock Creek to the west.

On Long Island and in the project area, Quaternary- and Cretaceous-age unconsolidated sediments rest unconformably on a crystalline bedrock surface that slopes to the southeast. Underlying bedrock is of Precambrian age and occurs at depths ranging from about 200 feet bgs to 1,800 feet bgs. Descriptions of rock cores from wells indicate that the bedrock is generally a biotite schist or gneiss, which may be intruded by granite or pegmatite. In most places, the bedrock is weathered in its upper part.

Exhibit A

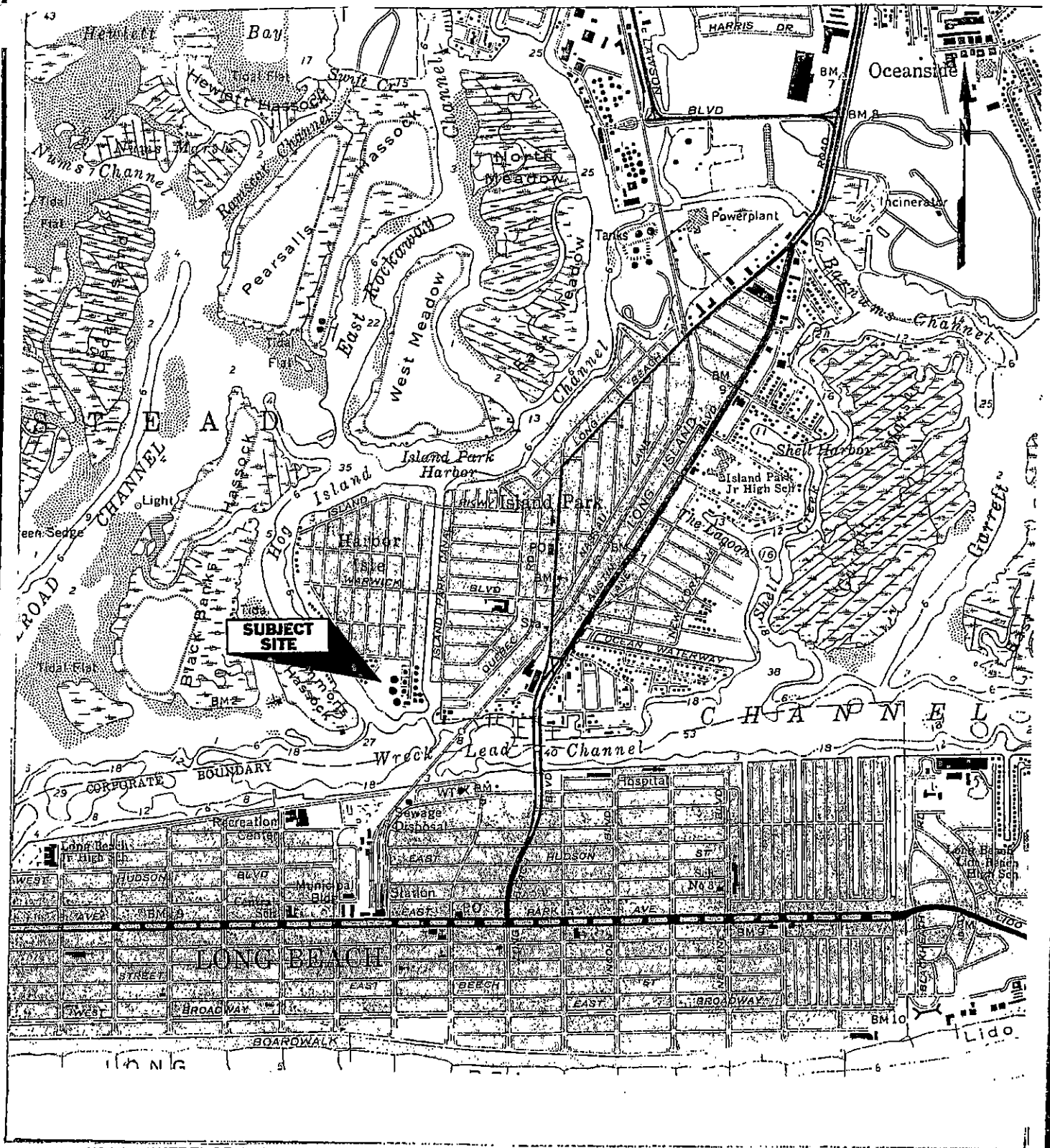
Maps

Figure 1. Location map



Source: NYSDOT, Lawrence Quadrangle
Scale: 1" = 1,000'

Post-it® Fax Note 7671	Date 3/27/06	# of pages ▶ 2
To ALALI TAMUNO	From NICK DEAMPORA	
Co./Dept.	Co. NYSDOT	
Phone #	Phone # 631 444 0322	
Fax # 914 428 0792	Fax # 631 444 0328	



SOURCE: USGS LAWERENCE, NEW YORK 7.5 MINUTE TOPOGRAPHIC QUANDRANGLE, PHOTOREVISED 1979

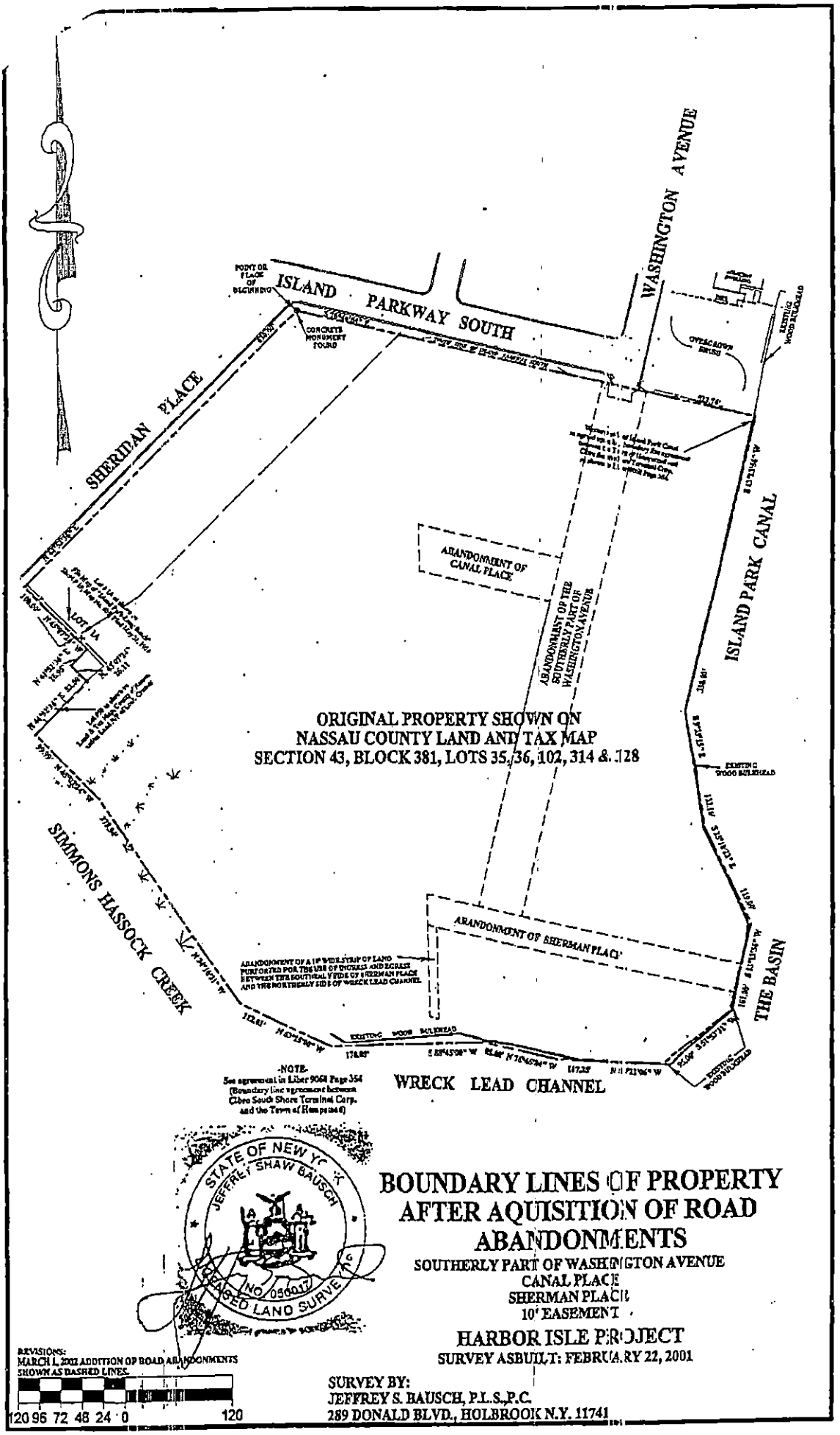
0 2000 4000

1"=2000'

QUADRANGLE LOCATION

LAW LAW Gibb Group Member	FORMER CIBRO ISLAND PARK SITE ISLAND PARK, NEW YORK	SITE LOCATION MAP	PRINCIPAL D.H. PROJECT MANAGER XX DRAWN BY G.L.	FILE NO. 22000-0-0026 DATE 10/31/00 DWG NO. 1

SITE LOCATION



BOUNDARY LINES OF PROPERTY AFTER AQUISITION OF ROAD ABANDONMENTS

SOUTHERLY PART OF WASHINGTON AVENUE
CANAL PLACE
SHERMAN PLACE
10' EASEMENT

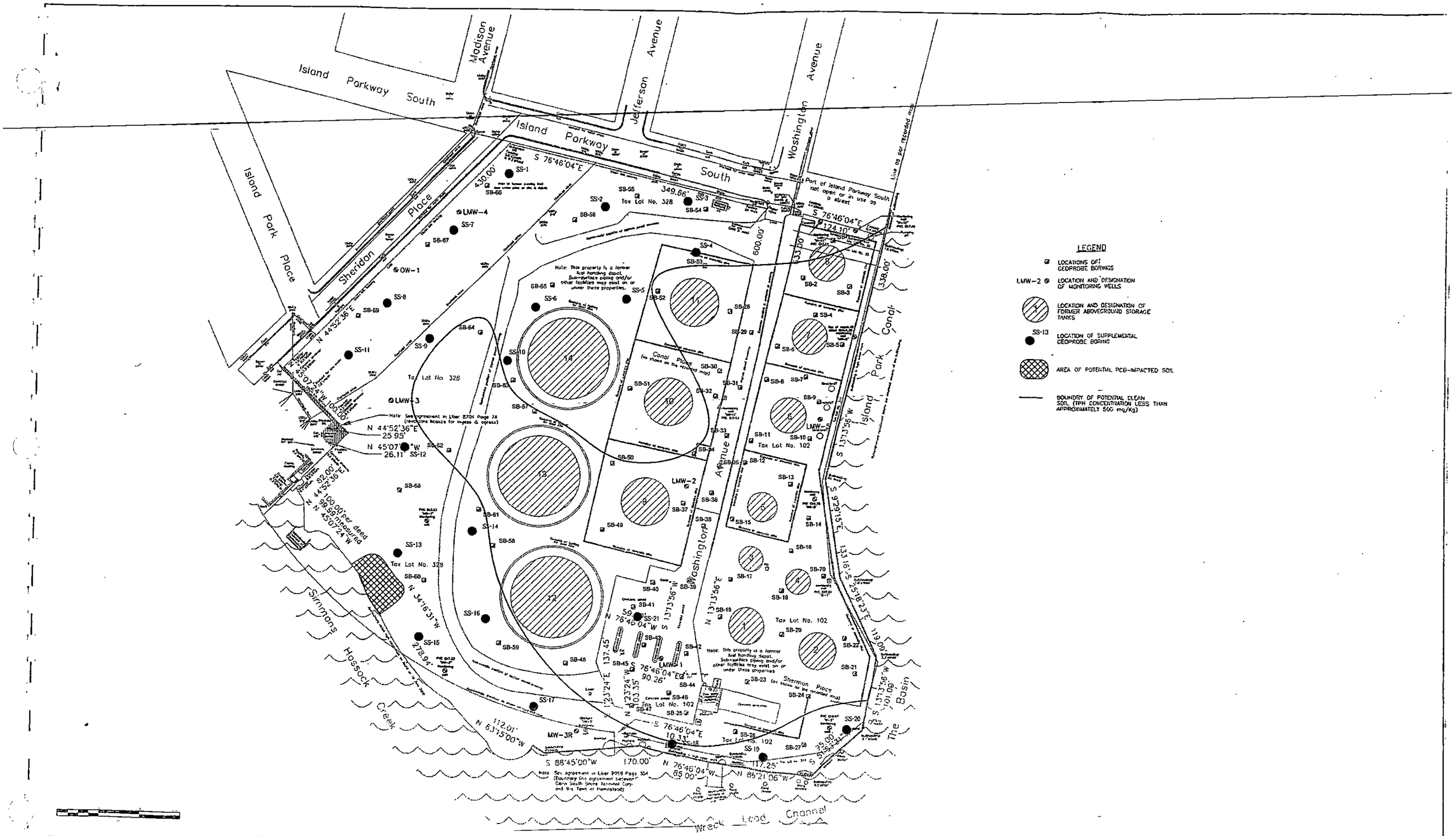
HARBOR ISLE PROJECT

SURVEY ASBUILT: FEBRUARY 22, 2001

REVISIONS:
MARCH 1, 2001 ADDITION OF ROAD ABANDONMENTS SHOWN AS DASHED LINES.

120 96 72 48 24 0 120

SURVEY BY:
JEFFREY S. BAUSCH, P.L.S., P.C.
289 DONALD BLVD., HOLBROOK N.Y. 11741



BLUE ISLAND, LLC.
FORMER CIBRO PETROLEUM FACILITY
ISLAND PARK, NEW YORK

LAW
ENGINEEERING AND ENVIRONMENTAL SERVICES, INC.

DRAWING TITLE:
LOCATIONS OF
SUPPLEMENTAL SOIL BORINGS
AND MONITORING WELLS

FIGURE NUMBER: Figure 2
SCALE: 1"=50'
PROJECT NUMBER: 22000-1-0015
ISSUE DATE: 2/2001

Phase I Environmental Site Assessment
Former Cibro Brothers' Terminal
Harbor Island, NY

Prepared for:

Posillico Development Company at Harbor Island, Inc.

Prepared by:

Ellis Koch
Principal
Metron Development Services
1610 New Highway
Farmingdale, NY 11735

March 2, 2005

Phase I Environmental Site Assessment
7 Washington Street
Island Park, NY

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Phase I Environmental Site Assessment
Former Cibro Brothers' Terminal
Island Park, NY

1. Summary

The 11.56-acre former Cibro Brother's Terminal property is situated at the southern terminus of Washington Avenue on Harbor Island, NY (the "Site"). Formerly, the property contained fourteen aboveground storage tanks (AST) totaling 17,675,000 gallons, and one 3000-gallon underground storage tank (UST). Being a former petroleum storage and distribution facility, the property suffered the effects of releases that have not been remediated. These include soil contamination and seeps into the canal on the eastern side of the property. Spill number #88-05691 is still open.

On November 2, 2000, Blue Island Development, LLC ("BI") purchased the former Cibro Brother's Terminal. Prior to this date of purchase, Cibro demolished all of the ASTs down to the concrete bases. The UST was purportedly removed prior to Cibro taking ownership of the property in 1973. Therefore, at the time BI took title, allegedly all ASTs and the UST were no longer on the Site. The only structure that remained present at the time of purchase was a small building in the southern part of the Site. With respect to Site preparation, the Site still needs to be cleared and graded, all tank bases removed, and possibly the supporting piles also need to be removed.

On November 17, 2000, BI signed a Stipulation Agreement to remediate the property. BI performed two investigations to describe the extent of the contamination after the execution of the Stipulation Agreement. The results show that the east-southeast to central part of the Site contains soil with total petroleum hydrocarbons (TPH) greater than 3000 milligrams per kilogram (mg/kg). A prior workplan to clean up the property to a residential standard estimated that 11,500 cubic yards of soil will need to be excavated and treated offsite. This represents the soil with TPH greater than 2500 mg/kg. The plan called for the remaining soil to be treated onsite.

2. Introduction

Blue Island Development, LLC (BI) purchased the former Cibro Island Park Terminal (Site) on November 2, 2000. When purchased, the remediation was, and is currently under the regulatory procedures of the Spill Program. However, since that time New York State enacted the Brownfields Cleanup Program (BCP) law, which provides incentives to induce companies to perform the cleanup under the BCP.

2.1. Purpose

One of the requirements of the BCP is that the applicant demonstrates the property qualifies for the program. A Phase 1 ESA report following the ASTM E 1527-00

guidelines and any other existing environmental reports need to be submitted with the application to document the environmental conditions at the Site or the likelihood that contamination exists that impacts development of the property. This report satisfies the ASTM E 1527-00 Phase 1 report requirement.

2.2. Detailed Scope of Services

This report is based on new research and existing information contained in the following documents:

a. LawGibb Group Site Investigation Workplan, November 9, 2000,
b. LawGibb Group Cleanup Plan for Soil and Groundwater, February 2001,
c. LawGibb Group Results of Supplemental Soil and Groundwater Investigation, August 6, 2001, and
d. Nelson, Pope & Voorhis Environmental Assessment Form, Part III, Harbor Isle Estates, March 2002.
e. Stipulation Pursuant to Section 17-030 of the Environmental Conservation Law and Section 176 of the Navigation Law by: Blue Island Development, LLC, Respondent, Spill No. 88-05691.
f. Chicago Title Insurance Company, August 14, 2000 Title Report.

Reports "a" through "d" can be found in Appendix A. The Stipulation is in Appendix B.

In addition, key employees of the current property owner were interviewed.

2.3. Significant Assumptions

It is assumed that the reports listed above represent the conditions that were present at the facility when the studies were done that the conditions have not materially changed since that time.

2.4. Limitations and Exceptions

The data and conclusions in this report are based on existing information. No new intrusive data-collection activities have been performed to document the current situation at the property, as the LAWGibb reports are 4-years old.

2.5. Special Terms and Conditions

None.

2.6. User Reliance

Metron Development Services (Metron) prepared this report for the use of BI, its affiliates and attorney. No other entity should rely on the information and conclusions presented herein without Metron's written consent.

3. Site Description

When purchased by BI, the Site was abandoned due to the bankruptcy of the former owner.

3.1. Location and Legal Description

As shown on Figure 1, the property is an 11.56-acre peninsula at the southern terminus of Washington Avenue on Harbor Island, Town of Hempstead Nassau County, New York. The property is identified on Nassau County tax maps as Section 43, Block 381, Lot 35, 36, 102, 314, and 328. It is located on the southeast corner of the intersection of Sheridan Place and Island Parkway South.
Currently, the property is zoned Y Industrial District.

3.2. Site and Vicinity General Characteristics

The Site is comprised of approximately 1.50 acres of old field vegetation, 2.27 acres of impervious surfaces, 7.67 acres of gravel and dirt associated with the demolition and environmental investigation activities, with the remaining 0.12 acres consisting of vegetated tidal wetlands.

The property is relatively flat, at an elevation near, and sometimes below the high water line of the surrounding bays. Former aboveground portions of the structures were removed prior to purchase except for a small building at the southern part of the site. Only the tank bases remain. Historical releases of petroleum product have stained large areas of the soil, created intermittent seeps into the adjacent surface water that need to be controlled with booms, and are the source of odors.

A metal chain link fence secures the property to the north and west, with three locked and gated entranceways. The metal chain link fence extends to the residential dwellings adjacent to the southwest corner of the property, but does not extend southward beyond this point. Access to the Site is restricted. Limited beach access is provided along the southern shoreline in the western portion of the Site. The eastern property boundary is supported by a bulkhead, as is the remainder of the southern shoreline. A concrete wall set back from and parallel to the bulkhead extends the length of the eastern boundary landward.

As shown on the figure, the property is accessed through a gate at the end of Washington Avenue. A south-trending roadway leads from the entrance to the dock at the shoreline. A road roughly following the western perimeter of the Site, forks to the west from just south of the entrance ending at the dock on the southern terminus of the property.

Except for the roadways, the Site cannot be driven over due to the concrete debris and the remnants of the former occupant.

Most of the shoreline is constructed of bulkhead, except for the portion to the west, which is at sea level and contains an active wetland.

3.3. Current Use of Property
The property is currently being used to store construction equipment and material.

3.4. Descriptions of Structures Roads, Other Improvements on the Site
As mentioned above, no improvements have been made to the Site other than grading some of the areas for parking and staging equipment.

3.5. Current Use of the Adjoining Properties
Bays and channels occur on the east, south and southeast sides of the property. Residential use, consisting of single-family homes occurs to the north and northeast. Commercial, marine-oriented use occurs to the west and along the shoreline extending northwest from the property's southwest boundary.

4. User-Provided Information

4.1. Title Records
According to the LAWGibb Report and the abstract of title, the Site was used as a petroleum bulk storage facility since the 1940's. Cibro bought the facility from OPI, Inc. in 1973, and continued the same operation through 1990. BI purchased the property from the bankruptcy court on November 2, 2000, and is the current owner.

4.2. Environmental Liens or Activity and Use Limitations
There is no mention of environmental liens in the abstract or activity and use limitations registered on the property.

4.3. Owner, Property Manager, and Occupant Information
The owner of the property is Blue Island Development, LLC. The property is managed and occupied by Blue Water Environmental, Inc. and JD Posillico.

4.4. Reason for Performing Phase I
This Phase I is being performed to document the environmental conditions of the property. The report will be submitted with the BCP application to satisfy the requirements of the "Site's Environmental History Section".

4.5 Owner Information
Blue Island Development, LLC, 1610 New Highway Farmingdale, NY 11735, owns the property.

4.6 Reason for Performing Phase I
This Phase I was performed to document the existence of contamination at the property and the status of New York State Department of Environmental Conservation (DEC) involvement to remediate the problem. The report also provides a basis for including the property in the BCP.

5. Records Review

5.1. Standard Environmental Records Sources

The environmental conditions of the Site are well documented in the files of the New York State Department of Environmental Conservation. As mentioned above, an open spill number still exists on the property, along with continuing petroleum seeps into the surrounding surface water, and petroleum-contaminated soil. BI signed a Stipulation on November 17, 2000 to "cleanup and remove a discharge of petroleum that was reported on October 4, 1988". The stipulation is reproduced in Appendix B, and any environmental reports pertaining to the Site are in Appendix A.

5.2. Additional Environmental Records Sources

No other environmental records were searched other than the NYSDEC project file.

5.3. Physical Setting Sources

The reports listed in Section 2.2, an owner interview and several site visits were used to collect the majority of information for this Phase 1 report.

5.4. Historical Use Information on the Property

The property formerly contained a petroleum bulk storage facility containing fourteen aboveground storage tanks (ASTs) with a total capacity of 17,675,000 gallons and an underground, 3000-gallon petroleum storage tank. The 3000-gallon tank was purportedly removed prior to Cibro's ownership. Cibro removed the ASTs.

5.5. Historical Use Information on Adjoining Properties

No information was reviewed that indicated adjoining properties had any other use than that described in Section 3.5.

6. Site Reconnaissance

Site reconnaissance information has been provided above.

7. Interviews

Michael Posillico, of BI and President of Blue Water Environmental, Inc. was interviewed to determine the current use of the property.
Vincent Rodda, CFO of Blue Island Development, LLC was interviewed to obtain the ownership information.

8. Findings

The Harbor Island property is zoned "Y" industrial. Historically, the property has been used as a petroleum storage and distribution facility. Currently, it is being used to store construction/industrial equipment and supplies. Based on observations of the current use of the Site, such use is not contributing to pre-existing Site contamination conditions.

Historical use of the property has resulted in releases of petroleum-related chemicals that are the subject of on-going environmental investigation and remediation. A spill number and stipulation to cleanup the property are still active. Costs to cure the

environmental issues are in the hundreds of thousand to millions of dollars, depending on future use cleanup goals.

Future development of the property to its highest and best use is severely hampered by the environmental conditions. The "unattractiveness of this site for redevelopment" is demonstrated by the long time that the property was on the market after Cibro went bankrupt; namely, 10 or more years.

Potential impact of the petroleum-related chemicals to the adjoining and nearby residential users is a consideration that must be included in any cleanup cost estimate.

9. Opinion

This property has severe environmental issues requiring significant capital investment to prepare it for a new industrial use that conforms to the current zoning. If zoning were changed to a higher use that conforms to the surrounding neighborhood, the cleanup costs would rise dramatically, creating additional financial risks that need to be evaluated against its redevelopment potential.

10. Conclusions

Past use of the property has resulted in severely contaminated soil that contains chemicals exceeding NYS TAGM guidance. Significant capital investment is required to reduce the seeps to the surrounding surface water, and the exposure concentration of the chemicals in the soil before the property can be used according to current regulatory guidance.

11. References

References are listed in Section 2.2.

12. Signatures of Environmental Professionals

Prepared and submitted by

Metron Development Services

Ellis Koch
Project Director

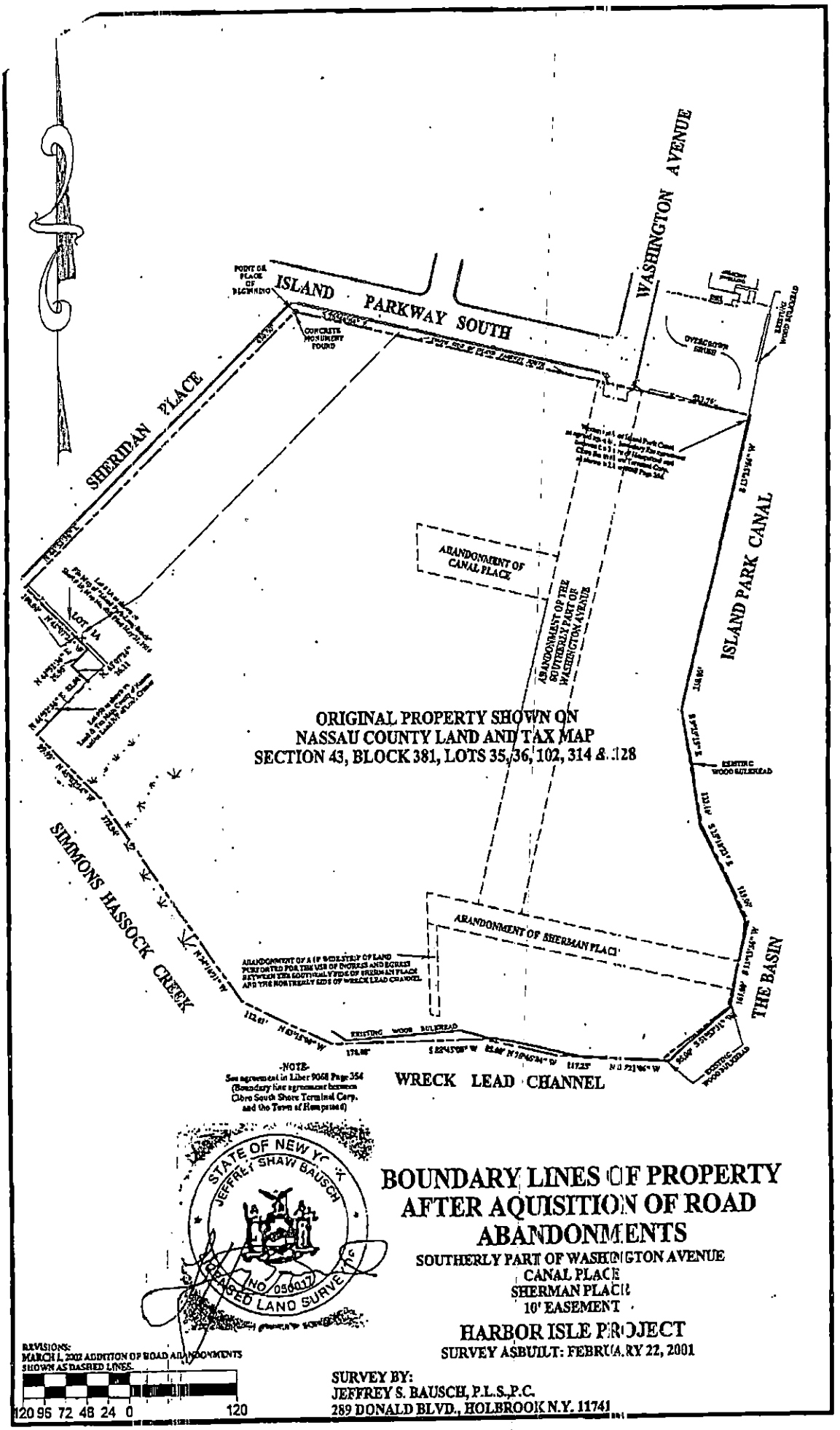
13. Qualifications of Environmental Professionals

Qualifications are contained in Appendix C.

FIGURES

1) **Location Map**

2) **Site Plan**



BOUNDARY LINES OF PROPERTY AFTER AQUISITION OF ROAD ABANDONMENTS

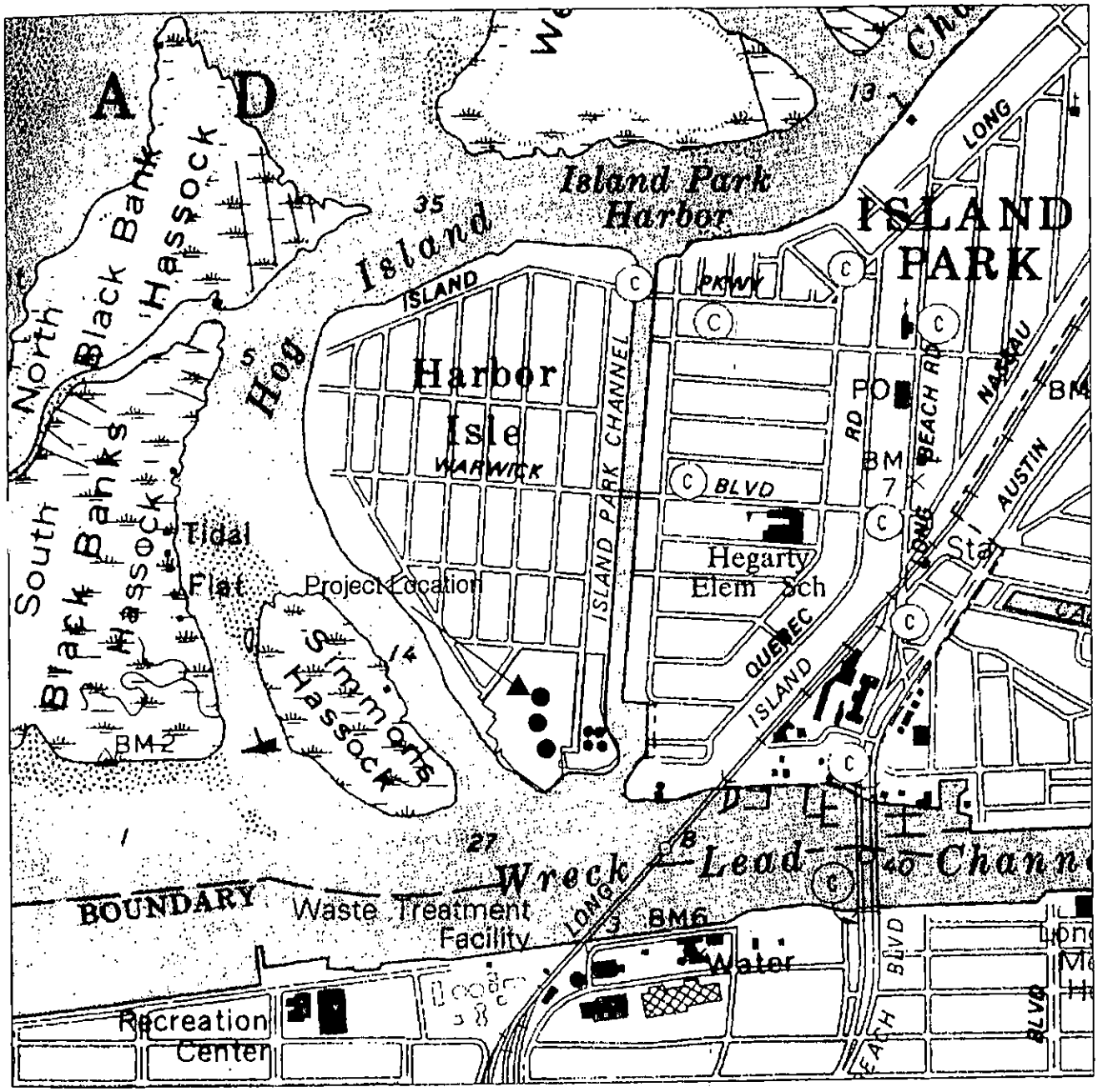
SOUTHERLY PART OF WASHINGTON AVENUE
CANAL PLACE
SHERMAN PLACE
10' EASEMENT

HARBOR ISLE PROJECT

SURVEY ASBUILT: FEBRUARY 22, 2001

SURVEY BY:
JEFFREY S. BAUSCH, P.L.S.,P.C.
289 DONALD BLVD., HOLBROOK N.Y. 11741

Figure 1. Location map



Source: NYSDOT, Lawerence Quadrangle
Scale: 1" = 1,000'

NORTH

Exhibit B

Project Schedule

Island Park Estimated Construction Schedule and Phasing

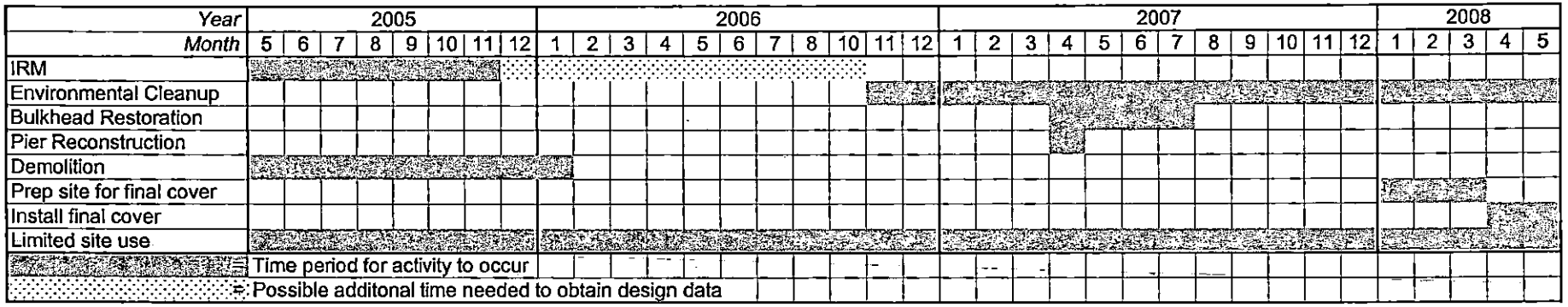


Exhibit C

Brownfield Site Contact List

BROWNFIEDL SITE CONTACT LIST
ADJACENT AND NEARBY HOME OWNERS

Homeowner
180 Block Ln
Island Park, NY 11558

Homeowner
190 Block Ln
Island Park, NY 11558

Homeowner
200 Block Ln
Island Park, NY 11558

Homeowner
208 Block Ln
Island Park, NY 11558

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212 Block Ln
Island Park, NY 11558

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130 Franklin Ave
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148 Franklin Ave
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73 Madison Ave
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74 Madison Ave
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NASS CO. SEC. 43 BLK 381 LOTS 35, 36, 102, 314 & 328

MADISON AVENUE

JEFFERSON AVENUE

ISLAND PARKWAY SOUTH

S76° 46' 04"E 349.66'

S76° 46' 04"E 120.00'

MAP LINE

IRREGULAR BULKHEADING RETAINING

NOT OPEN OR IN USE AS A STREET

SHOWING DATE CLOSED AND ROADWAY

CONCRETE MONUMENT SET

CHAIN LINK FENCE

CONCRETE DIKE

TANK REMOVED

TANK TO BE REMOVED

STEEL DIKE

FIRE MAIN

TANK SPOKES

PIT RACK OFFICE

ONE STORY STEEL BUILDING

ONE STORY MASONRY BUILDING

EARTHEN BERM

FUEL TRANSFER MANIFOLD STATION WITH ROOF OVER

FUEL HANDLING PIER

WATER

CONCRETE

TAX LOT 314

TAX LOT 102

TAX LOT 104

PLACE

SHERIDAN

CANAL PLACE PER FILED MAP

WASHINGTON AVENUE (RECORDED AS A PRIVATE WAY, PUBLIC STREET)

SHERMAN PLACE PER FILED MAP

S 19° 19' 56" W

S 05° 19' 10" E MEASURED (128.90' R&M)

S 28° 40' E

N 19° 19' 56" E

N 76° 46' 04" W 193.91'

S 81° 25' 51" W 107.70'

PLASTIC SET

PLASTIC SET

PROPOSED BOUNDARY LINE AGREEMENT CIRCA 1976 (LEGAL STATUS UNKNOWN)

APPROXIMATE SHORELINE AS PER FILED MAP

APPROXIMATE POSITION OF ASPHALT PAVED DRIVEWAY

APPROXIMATE - VISIBLE HIGH WATER MARK OBSERVED ON 12/10/87

HIGH WATER MARK

BULKHEAD

PARCEL I
TAX LOT 328
(378,119± SF OR 8.7± ACRES)

(124,415± SF OR 2.8± ACRES)
PARCEL II
TAX LOTS 35, 36 & 102

N 32° 25' 24"W 128.00'

N 43° 03' 34" W

N 44° 32' 36" E 108.90'

N 44° 32' 36" E 28.93'

N 03° 41' 44" E 39.90'

N 06° 18' 08" W 32.11'

N 03° 38' 04" W 12.96'

N 48° 55' 02" W 114.89'

S 46° 32' 36" W 30.72'

S 00° 18' 08" E 25.08'

S 79° 00' 51" W 156.60' MEASURED
(S 76° 00' 49" W) DESCRIPTION

296.08'

WATER

PROPOSED UNDER

SIMMONS

HASSOCK CREEK

LEAD CHANNEL

WRECK

ISLAND PARK CANAL

Figure 2. Site plan

NOTES:
1. SUB-SURFACE CONDITIONS ARE NOT SHOWN.
2. EASEMENTS OF RECORD, AND/OR RIGHT-OF-WAYS, IF ANY, NOT SHOWN ARE NOT CERTIFIED
3. VARIOUS AND EXTENSIVE PIPING NOT SHOWN
4. TAX LOT Nº 314 LIES OUTSIDE THE DESCRIPTIONS SHOWN OF PARCELS I & II
5. THIS SURVEY INCLUDES BLOCKS 201, 202, 213, 214 AND PART OF 215 AS SHOWN ON "MAP OF ISLAND PARK - LONG BEACH" SHEET Nº 19 MAP Nº 605 FILED: MAY 21, 1926
6. COMPOSITE PLOT AREA (PARCELS I & II) = 502,532 SF OR 11.5± ACRES TO DESCRIPTION LINES AS MEASURED

MAP OF PROPERTY SITUATED NEAR
THE VILLAGE OF ISLAND PARK
TOWN OF HEMPSTEAD, COUNTY OF NASSAU
STATE OF NEW YORK
SCALE: 1" = 40'

SURVEYED: 23 NOVEMBER 1985
SURVEY BROUGHT TO DATE: 10 DECEMBER 1987
SURVEYED FOR:
CIBRO SOUTH SHORE TERMINAL CORP.

CERTIFIED TO:
1. THE CIT GROUP/BUSINESS CREDIT, INC
2. PREFERRED LAND TITLE SERVICES, INC. Nº 63135
3. FIRST AMERICAN TITLE INSURANCE CO OF NEW YORK Nº 460-N-2968

JOHN A. ROBINSON
LAND SURVEYOR N.Y.S.Lic Nº 49039
1005 PARK BLVD, MASSAPEQUA PARK, N.Y. 11762
516 798-1290

APPENDICES

A. References (in separate attachments)

c.1- LawGibb Group Site Investigation Workplan

c.2- LawGibb Group Cleanup Plan for Soil and Groundwater

c.3- LawGibb Results of Supplemental Soil and Groundwater Investigation

B. Stipulation Pursuant to Section 17-030

C. Qualifications for Ellis Koch, Project Director

New York State Department of Environmental Conservation
Division of Environmental Remediation, Region One
Spill Prevention and Response
Building 40 - SUNY, Stony Brook, New York 11790-2356
Phone: (631) 444-0320 • FAX: (631) 444-0328
Website: www.dec.state.ny.us

John P. Cahill
Commissioner

November 17, 2000

CERTIFIED LETTER - RETURN RECEIPT REQUESTED #7099 3400 0004 5724 4620

Blue Island Development, LLC
1610 New Highway
Farmingdale, NY 11735

Attn: Mr. Michael Posillico

Re: Spill #88-05691, Former Cibro Terminal, 7 Washington Avenue, Island Park.

Dear Mr. Posillico:

I have enclosed a copy of the executed Stipulation Agreement for your records.

Except as specifically modified below, this letter is to formally approve the Corrective Action Plan (CAP) submitted by you in accordance with the Stipulation Agreement.

This approval is expressly conditioned upon the following:

1. All proposed soil borings must be advanced into the water table by at least 4 feet or until the vertical extent of the contamination has been defined. In addition, based on field observations and instrumentation, additional borings may be required to determine the horizontal extent of contamination. Any significant changes to the locations of the proposed soil borings must be approved by this office prior to installation.

2. The use of TPH analysis for the purpose of the initial subsurface investigation work is acceptable. However, be advised that all future soil and groundwater sampling during the remedial phase of the project must be analyzed utilizing EPA Methods 8021 and 8270.

3. The six 25 foot soil borings that will be installed to collect geotechnical data must also be screened for contamination utilizing field instrumentation. Based on this information, soil sampling may be required.

4. Prior to the commencement of any work along the eastern section of the property, the existing containment boom must be cleaned and repaired or replaced. In it's current condition, it is incapable of containing a release.

5. I have attached the requirements for proceeding with any work within the 75' tidal wetland buffer zone and 300' jurisdictional area as defined by Marine Habitat Protection Unit.

You must adhere to the terms and schedule in the (CAP) that is attached to the Stipulation Agreement. Any substantive modification requests to the CAP must be directed to me in writing, in advance, and I will approve/disapprove in writing.

If you have any questions or comments regarding this matter, please call Nick Acampora of my staff at 444-0322 .

Sincerely,

Karen Gomez, P.E.
Regional Spill Engineer

cc: N. Acampora
K. Graulich, Marine Habitat Protection

Marine Habitat Protection Comments and Conditions

1) As per our previous discussion and site meeting, a number of tasks provided in this plan are not appropriate to the contaminant investigation and should not be provided for under the stipulation. These include clearing of vegetation and construction debris and excavation and/or removal of top soil. In the tidal wetland jurisdictional area, these activities will require a Tidal Wetlands permit.

2) The specific location where soil will be stockpiled must be indicated. Stockpiling soil in the jurisdictional area is not necessary since adequate non-jurisdictional locations exist. Stockpiling clean soil in the jurisdictional area will, therefore, require a Tidal Wetlands permit. Stockpiling impacted soils (unclean fill) will not be permitted in the jurisdictional area. Similarly stockpiling crushed and/or loose concrete will not be permitted in the jurisdictional area.

3) The work plan indicates under 5.0 Site Investigation Methodology, a number of activities that appear to be remedial actions rather than investigative actions. These include the selected removal of impacted soil in the 300-foot jurisdictional area and the excavation of PCB-impacted soil. These activities, and all other activities provided in this plan, will be subject to the following conditions:

a) Specific location of impacted soils and the area of disturbance for excavation and soil removal must be provided and approved prior to any excavation. If impacted soils are found in the protected buffer area, soil may be removed with the following conditions:

1. Erosion control measures, such as haybales and/or silt fencing, must be placed on the downslope edge of any disturbed area. This sediment barrier is to be put in place before any disturbance to the ground occurs and is to be maintained in good condition until the disturbed area is stabilized by vegetative cover.

2. All areas of soil disturbance in the 75' protected buffer area shall be stabilized with appropriate native, non-fertilizer dependent vegetation immediately following project completion.

3. All fill shall consist of "clean" sand, gravel or soil (not asphalt, slag, flyash, concrete, demolition debris or impacted soils).

All other activities permitted under this stipulation will be subject to the following conditions:

a) Erosion control measures, such as haybales and/or silt fencing, must be placed at the landward limit of the 75' no disturbance buffer area. This sediment barrier is to be put in place before any disturbance to the ground occurs and is to be maintained in good condition until disturbed areas are stabilized by vegetative cover.

b) There shall be no disturbance to tidal wetlands or the 75' protected buffer area as a result of the permitted activities.

c) Any debris or excess material from this project shall be completely removed from the jurisdictional area. No debris from this project is permitted in tidal wetlands or the protected buffer area.

d) All fill shall consist of "clean" sand, gravel or soil (not asphalt, slag, flyash, concrete, demolition debris or impacted soils).

NEW YORK STATE DEPARTMENT OF ENVIRONMENTAL CONSERVATION

STIPULATION PURSUANT TO SECTION 17-0303 OF THE ENVIRONMENTAL CONSERVATION LAW AND SECTION 176 OF THE NAVIGATION LAW BY:
Blue Island Development, LLC, Respondent SPILL NO. 88-05691

1. The Department of Environmental Conservation is the agency responsible for the cleanup and removal of discharges of petroleum pursuant to Article 12 of the Navigation Law and Article 17 of the Environmental Conservation Law.

2. Respondent has agreed to cleanup and remove a discharge of petroleum which was reported on October 4, 1988 at the former Cibro Terminal, 7 Washington Avenue, Island Park, New York, by taking the steps and according to the conditions set forth in the Corrective Action Plan attached to this Stipulation.

3. This Stipulation does not affect the Department's right to pursue any claims that the Department may have against Respondent, including but not limited to, claims for alleged violations of the Navigation Law or the Environmental Conservation Law. This Stipulation does not affect any defense that Respondent may have to any such claims.

4. Respondent, without admitting liability, consents to the issuance of this Stipulation, waives the right to notice and hearing with respect to the issuance and entry of this Stipulation as provided by law, and agrees to be bound by the terms of this Stipulation, including any attachments thereto and any plans developed hereunder.

5. This Stipulation is equivalent to an order pursuant to ECL §17-0303 and a directive pursuant to NL §176 and is enforceable as such.

6. This Stipulation may be modified in writing as may be agreed between the parties. The Corrective Action Plan may be modified by the Department in the same manner as a Department permit.

7. The effective date of this Stipulation is the date it is signed by the Department.

11/21/00
Date

Respondent's signature*

Respondent's Title (if corporation)

11/17/00
Date

Regional Spill Engineer, Region 1

* NOTE: If stipulation is with a corporation, the respondent must be an official, authorized corporate representative.

Metron Development Services
1610 New Highway
Farmingdale, NY 11735

ELLIS KOCH, C.P.G.

EXPERIENCE

YEARS OF PROFESSIONAL EXPERIENCE: 36

PRINCIPAL EXPERTISE:

Mr. Koch is a certified professional geologist that has focused his career on describing environmental conditions in soil and groundwater, the health and cleanup risks of the discovered chemicals, and cost-effective, expeditious remediation strategies to remove the stigma from the properties. He has applied this expertise to a variety of locations, releases and situations as described ahead.

SUMMARY OF EXPERIENCE:

Mr. Koch has been a member of Metron Development Services since May 2001. He is responsible for technical project development and oversight. Prior to joining Metron, Mr. Koch was a member of a large international consulting company from 1979 to 2001. His responsibilities involved providing senior technical oversight on projects ranging into the millions of dollars, managing accounts, and strategic market penetration. He also had operations responsibility from 1985 until 1996.

From 1997 until 2001 Mr. Koch was primarily involved in the technical aspects of the Real Estate and Asset Solutions initiative. As such he applied investigation, risk management, remediation, and regulatory negotiation expertise to develop strategies for dealing with the financial risk attributes of contaminated property.

From 1974 until 1979 Mr. Koch was a member of the Suffolk County Department of Environmental Control where he was the principal hydrogeologist for the County. Prior to that, from 1967 until 1974 he held the position of Hydrologist at the U.S. Geological Survey, Long island Sub-district Office in Mineola, NY.

Mr. Koch has designed and managed projects with multi-million dollar budgets. He has been responsible for projects concerning the effects of oil and gas leakage and dissolved chemicals on soil and groundwater quality. He has developed and implemented plans for removing these contaminants using combinations of in situ and traditional treatment and control technologies. Mr. Koch has provided expert testimony on behalf of industrial clients in the preparation of applications for permits, at hearings and in the development of information for compliance documents and for complex groundwater situations pertaining to toxic-tort environmental cases. In addition, he has designed and successfully negotiated RI/FS plans with USEPA and state regulatory agencies that concerned sites covered by RCRA and CERCLA statutory requirements.

Mr. Koch designed and managed studies to assess the groundwater potential of aquifers for use in the prediction of aquifer yield and the effects of groundwater withdrawal.

Mr. Koch also served between 1977 and 1979 as an Adjunct Assistant Professor in the Environmental Studies Program at the State University of New York at Stony Brook, where he taught students the design, and implementation of groundwater investigations.

PROJECT HIGHLIGHTS:

- REAL ESTATE SERVICES
  - Property Transfer Due Diligence
    - Negotiated the first master services contract and scope of services with a leading New York bank to perform environmental site assessments for properties undergoing financing due diligence.
    - Managed the due diligence section of a national consulting company to insure the technical quality of the products.
    - Participated in numerous ESA projects concerning petroleum and industrial properties.
  - Environmental Risk Management
    - Negotiated a guaranteed remediation contract with a Connecticut manufacturing company to assume the total cost for completing a RCRA closure and state consent order cleanup of the industrial property. Negotiated the underlying insurance policy and terms and conditions of the master contract.
    - Prepared a guaranteed remediation estimate and quotation for an abandoned petroleum terminal on the south shore of Long Island that was owned by a debtor in bankruptcy. Provided information needed to reduce the taxes on the property. Provided support to the property owner for companies interested in purchasing the property.
    - Provided due diligence to a company buying properties from a Community Development Agency for a portfolio of properties consisting of state and federal superfund sites. Currently providing oversight support to document the extent of the remediation and any exposure pathways that will need to be addressed in the future buildout.
    - Managed the cleanup of a former gasoline station and provided sales negotiation services for the property owner subsequent to the implementation of the cleanup program.
    - Acted as environmental agent for a client interested in purchasing a former oil terminal. Provided due diligence and negotiation support.
    - Designed an environmental demolition project for a 39-acre former copper refinery concerning hazardous chemicals such as asbestos, PCBs, solvents and heavy metals. Cost savings were achieved by pre-characterizing the site so that the demolition and waste removal could be scheduled to minimize repeat handling of materials and downtime caused by "surprises" that would upset the schedule.
- CERCLA/RCRA/GROUNDWATER/SOIL CONTAMINATION
  - Negotiated a cost-effective investigation and cleanup strategy for a petroleum leak at a terminal in upstate NY that saved the client hundreds of thousands of dollars compared to the plan presented by the regulatory agency. Cost savings were achieved by using a lower capital and energy approach than what was being asked for by the regulatory agency.
  - Negotiated a cost-effective approach to demonstrate that natural attenuation was an effective cleanup technology for gasoline constituents dissolved in groundwater beneath a petroleum terminal in upstate NY. Cost savings were achieved by demonstrating that MNA was occurring and that the contaminants were not migrating offsite.
  - Developed an approach to determine the extent of PCB contaminated soil for a major manufacturing firm in upstate NY, prepared a removal plan, and supervised the removal. Cost-saving was achieved by obtaining laboratory results overnight to identify areas that were clean from those needing further excavation, and to order the appropriate number of trucks to handle

the expected soil amounts without any downtime.
- Supervised the implementation of a four-year investigation and remedial program to control industrial discharges into the Housatonic River in western Massachusetts.
- Developed a compliance-monitoring program to satisfy requirements of the Pennsylvania DER for an electrical utility in central Pennsylvania.
- Designed and implemented a study to define the effects on the underlying aquifer system of an ore processing plant in the western US, and developed a monitoring and remedial program to satisfy the requirements of the client.
- Developed and implemented an RI/FS for an industrial client in western Massachusetts at a plant site affected by solvent leakage, drum burial, waste burial, and PCB disposal. A unique cost-savings approach was to substitute empirical field data in lieu of a solute transport model to predict plume concentrations and establish an early warning system.
- Designed and implemented multi-disciplinary studies to define the effect of solvent leakage on groundwater quality at a site in Kansas; analyzed the data to separate the effect of various solvent users in the study area; presented the information to state regulatory agencies and negotiated and implemented a clean-up strategy. Subsequently supervised the design and testing of the remedial system.

- EXPERT TESTIMONY
  - Provided expert testimony for a plaintiff in the Woburn toxic-tort case that resulted in a jury finding of not guilty.
- LONG ISLAND HYDROGEOLOGY
  - Managed studies and collected data for numerous projects on Long Island, New York to assess the effects of pumpage on groundwater and surface water levels and subsequent effects on streamflow and salinity changes in adjacent saltwater bodies.
  - Helped design and review the results of groundwater modeling studies used to predict the effects of groundwater diversion on water levels due to ocean outfall of treated sewage.

EDUCATION:

M.S. Geology/Hydrogeology, Virginia Polytechnic Institute and University, 1967
B.S. Geology, Brooklyn College of the City University of New York, 1965

PROFESSIONAL REGISTRATIONS:

Registered Geologist: Georgia, Virginia, Arizona, Arkansas, Pennsylvania, and Florida

Certified Professional Geologist: American Institute of Professional Geologists,

LICENSES:

New York State High School Earth Science Teacher

SELECTED PUBLICATIONS:

Koch, Ellis, 1974, Flow of Contaminants in the Saturated Zone, Suffolk County Department of Environmental Control.

Koch, Ellis, 1970, Man's Effect on the Quality of Selected Streams in Southern Nassau County, Long Island, New York: U.S. Geological Survey Professional Paper 700-C, pp. C189-192.

Koch, Ellis, Harris Fischer, James Maloney, and Joseph Baier, 1976, Impact Assessment of the Proposed

Plainview Landfill, Town of Oyster Bay: Suffolk County Department of Environmental Control, 32 p.

Koch, Ellis, A.A. Giamio, and D.J. Sulam, 1973, Design and Operation of the Bay Park Artificial-Recharge Plant, Bay Park, New York: U.S. Geological Survey Professional Paper 751, Chapter B.

Perlmutter, N.M., and Ellis Koch, 1975, Hydrochemical Data From Investigation of Water Quality in Sewered Areas in Southern Nassau County, Long Island, New York: Nassau County Department of Public Works, Long Island Water Resources Investigations, LIWR-4, 34 p.

BLUE ISLAND, LLC

FARMINGDALE, NEW YORK

INTERIM REMEDIAL MEASURE (IRM) PILOT TEST WORKPLAN AND SUPPLEMENTAL DATA COLLECTION FOR THE FORMER CIBRO ISLAND PARK SITE ISLAND PARK, NEW YORK

PROJECT #44093.000

March 2005

Office Location
GANNETT FLEMING, INC.
202 Wall Street
Princeton, New Jersey 08540

Office Contacts:
Arul Ayyaswami
(609) 279-9140

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WORK PLAN CERTIFICATION

This work plan has been prepared by Gannett Fleming, Inc. and reviewed by the undersigned for technical adequacy and completeness.

Gary A. Rozmus, P.E.

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APPENDICIES

APPENDIX A – Hydrocarbon Reducing Microbes

APPENDIX B – Summary of the Volatile Organic Compounds

1.0 INTRODUCTION

On behalf of Blue Water, LLC, Gannett Fleming (GF) prepared this work plan for an interim remedial measure (IRM)- bioremediation pilot study at the former Cibro Petroleum site in Island Park, New York (Island Park site). The site location is shown on Figure 1.

This work plan describes the technical approach, scope, and objectives of the IRM pilot study. The results from this work will be used to evaluate the feasibility of enhanced bioremediation to degrade petroleum hydrocarbon residuals in the soil at the site, and provide the majority of the data needed to determine cleanup goals relative to planned future use of the property, which has been identified as industrial. These data combined with a detailed site development and use plan will be used to design the appropriate remedial action. Any remaining data needs will be satisfied during the design stage of the project.

2.0 BACKGROUND

The Cibro Island Park site is an 11-acre parcel of land (zoned industrial) located at 7 Washington Avenue in the Township of Island Park in Nassau County, New York (see Figure 1). The site is identified on the local Tax Map as Block 381, Lots 35, 36, 102 and 323. The site is bordered by water on three sides (Island Park Canal to the east, Wreck Lead Channel to the south, and Simmons Hassock Creek to the west), and to the north by single family residences.

According to information reviewed by GF, the site was used as a petroleum bulk storage facility since the 1940's. In 1973, Cibro purchased the site from OPI, Inc. and continued operating it as a bulk storage terminal through 1990. During its peak period of operation, the terminal facility contained 14 aboveground storage tanks with a total capacity of 17,675,000 gallons and one underground storage tank (UST), which was abandoned prior to Cibro's ownership. According to Cibro, the UST had a capacity of 3,000 gallons and was located near a dispensing system. The contents of the UST are unknown. The Island Park site is not currently in use, and the aboveground tanks have been removed.

During the past 10 to 12 years, several subsurface investigations were performed to determine whether site activities had impacted soil and groundwater quality. The investigations included the installation of test pits, soil borings and groundwater monitoring wells, as well as the collection and analysis of soil and groundwater samples. The results of these investigations indicated that soil, groundwater and surface water have been impacted by petroleum hydrocarbons.

The LAWGibb Group performed the most recent and comprehensive studies. The results of their work was published in the reports: Cleanup Plan for Soil and Groundwater at the Former Cibro Island Park Site, February 2001, and Results of Supplemental Soil and Groundwater Investigation, Former Cibro Petroleum Terminal, August 6, 2001. Both of these reports are provided with the Brownfield Cleanup Program application.

The work done by LAWGibb generally delineates the boundary of the impacted area and is equivalent to a remedial investigation. The LAWGibb results will be supplemented by the data that will be collected under this IRM pilot test, as explained ahead.

2.1 Results of the LAWGibb Studies

Based on the historical use of the property as a petroleum terminal, impacts would be limited to activities related to that industry: spills and releases of petroleum products like fuel oil and gasoline. The individual chemicals contained in these substances are volatile and semivolatile organic chemicals (VOCs and SVOCs). Therefore, impacts of past releases can be defined by the presence of these chemical suites.

The use of a surrogate analysis method to streamline the delineation of the impacts is a common procedure to save time and cost. This was done at the BI property by using total petroleum hydrocarbons (TPH), which is an indicator of the relative amount of petroleum product. The step that still needs to be done is to collect soil samples from the area containing TPH and analyze them for the individual VOC and SVOC constituents to identify exactly what chemicals are present and their concentration.

This strategy has been confirmed by the LAWGibb work. In the February report LAWGibb used TPH to delineate the area affected by past releases. They then used analyses for VOCS, SVOCs, PCBs and RCRA metals to confirm the absence of impacts in the area they called "clean".

The LAWGibb studies show the extent of the petroleum-contaminated soil and the specific chemicals of concern that have been released to the "clean area". These studies show that the "clean area" generally doesn't contain VOCs and RCRA metals in the soil. Moreover, VOCs aren't a drinking-water issue in the groundwater due to their low-to-non-detectable concentration and the inability of using groundwater for potable water supply in this area. The proximity to the saltwater bodies would induce saline water to move towards and into the supply well(s) when pumped for water-supply purposes.

In their February 2001 report LAW defined the extent of petroleum-contaminated soil using TPH. This boundary is reproduced on Figure 2 in the LAW August 6, 2001 report along with 21 additional soil-sampling locations designed to confirm the earlier results and collect data that would reveal the presence in the "clean area" of the individual chemicals associated with petroleum releases. The new soil samples were composites of 0-2 ft deep core samples that were analyzed for VOCs and SVOCs, and 6 samples were analyzed for RCRA metals.

The results show that no VOCs were found in the soil, and only one sample found a RCRA metal slightly exceeding TAGM (chromium at 10.1 ug/kg, which is only 0.1 ug/kg > TAGM).

The SVOC data generally confirmed the boundary for the clean area with a few excursions or locally high concentration of certain chemicals.

Groundwater samples were collected during both field events. The sampled wells and results are shown in Appendix B. The January 2001 data show that the predominant effect of the petroleum releases on groundwater occur under the most highly contaminated portion of the property, LMW-1/LMW-2 (having the highest TPH values). MW-3R also shows some impact from SVOCs and VOCs, but the results aren't consistent, suggesting a lesser impact to this part of the property.

The earlier work shows that the area within the boundary needs to be remediated to a point where the petroleum-related chemicals do not present an unsuitable exposure pathway for the intended use of the property, whereas, the "hotspots" in the "clean area" need to be addressed on an individual basis with respect to the intended use of the property.

As mentioned above, additional information on the types and concentration of chemicals in the area with high TPH needs to be collected to finish the characterization in this area. This work is included in this IRM Pilot Test WorkPlan as described ahead, which will then complete the characterization of the contaminated area and provide additional data needed for the design of the remedy after the IRM pilot test is completed.

3.0 HYDROGEOLOGY

As reported by LAWGibb, "on Long Island and in the project area, Quaternary- and Cretaceous-age unconsolidated sediments rest uncomfortably on crystalline bedrock surface that slopes to the southeast. Review of published information shows the underlying bedrock is of Precambrian age and occurs at depth ranging from about 2000 feet below ground surface (bgs) to 1,800 feet bgs. Descriptions of rock cores from wells indicate that the generally a biotite schist or gneiss, which may be intruded by granite or pegmatite. In most places, the bedrock is weathered in its upper part.

The Late Cretaceous deposits are predominately the Raritan and Magothy Formations which lie uncomfortably above the bedrock. These deposits consist of interbedded sand, gravel, silt and clay. The Raritan is the older formation and is divided into the Lloyd san member below and the clay member above. The Raritan Formation by correlation with the New Jersey formation has been referred to as the basal member of the upper (late) Cretaceous Series. The Magothy Formation, which, used to designate Cretaceous strata on Long Island that lie above the Raritan Formation, likely includes an equivalent of the Magothy of New Jersey. The Magothy Formation consists predominately of micaceous sand, sandy silt and clay. Gravel occurs near the base of the formation.

Pleistocene deposits of sand, gravel and glacial till form the surficial deposits at most areas of Long Island. The bulk of the Pleistocene deposits are till and outwash material associated with two ice advances within the Wisconsin and Illionian ages. The unconsolidated deposits that are saturated from the weathered bedrock upward to the water table yield water to wells screened in the permeable zones. Shoreline, swamp and alluvial deposits of Recent-age locally mantle the older deposits. According to published information, surface waters in the area of the site are classified as "SB" Saline Waters, which allows for primary and secondary recreation and fishing.

3.1 Site-Specific Hydrogeology

The unconsolidated material of the Island Park site consists predominately of fine to fine to coarse grain sand. A peat layer underlies the unconsolidated sand unit and is present at a depth of

approximately 9 feet bgs. The site-specific hydrogeologic conditions consist of a tidally influenced unconfined aquifer within the surficial fill material and glacial fluvial deposits. Tidal fluctuations on ground-water levels have been reported to range from one to four feet (Subsurface Investigations, 1994.).

Ground water levels were measured in the new and existing monitoring wells at the Island Park site on January 8, 2001 as part of a ground-water sampling round that was performed during LAW's recent site investigation. The depth to water and water –level elevation data are provided in Table 3-1. No separated-phase product has detected on the ground-water surface, using an oil-water interface probe. As shown on figure 3-1, the horizontal direction of ground-water flow at the Island Park site is generally southerly but locally discharges to the island park canal to the east, Wreck lead Channel to the south, and Simmons Hassock Creek to the west. The direction of ground-water flow mapped from water level data collected during January 2001 is consistent with ground-water flow maps prepared by others during investigations."

4.0 BASELINE SOIL INVESTIGATION

Soil samples will be collected to establish baseline conditions before the pilot study is performed and to characterize the VOC and SVOC content of the area delineated by the TPH data. TPH analyses will also be performed on the samples to evaluate whether petroleum hydrocarbon concentrations have changed over time. A New York-certified laboratory will analyze all samples.

A backhoe will be used to sample soil from eight locations (designated as BH-1 through BH-8) as shown on Figure 2. Composites oil samples will be collected from the bucket and screened in the field for organic vapors using a photoionization detector (PID). In general, two discrete zones in each excavation will be sampled: the shallow unsaturated zone at a depth of about 0 to 18 inches below grade surface (bgs); and the water table/smear zone (intermediate zone), which generally was encountered at a depth of about 24 to 48 inches bgs. Soil samples will be analyzed for VOCs using Method 8260, SVOCs using Method 8270 and Total Petroleum Hydrocarbons (TPH) by Method 8015.

5.0 SOIL BIOREMEDIATION PILOT TEST

5.1 Pilot Study Objectives

The objective of the pilot study is to evaluate whether enhanced bioremediation is a viable remedial alternative to reduce the concentration of petroleum hydrocarbons in soil. Prior to developing the pilot test scope of work, GF reviewed and compared different treatment options to enhance the rate of biodegradation in soil, including an engineered soil biopile, landfarming, phytoremediation, and enhancing bioavailability of hydrocarbon using surfactants. Based on this evaluation, it was determined that engineered biopiles and landfarming would provide the most cost effective and reliable means to remediate soils contaminated with petroleum products. A third option consisting of in-situ bioremediation using nitrates as the soil amendment was also considered a feasible remedy. All three remedial options will be the subject of the proposed pilot study as described below.

5.2 Soil Biopile Pilot Study

A 50-cubic yard soil biopile will be constructed at the location shown in Figure 3. The biopile will be approximately 20-feet wide, by 15-feet long and approximately 5-feet high. A 2-feet high earthen berm will be constructed around the pile to prevent run-on of surface waters and run-off of leachate. The berm will be constructed of soils and will be covered with the polyethylene liner to protect the curb from erosion. A double layer of 8-mil polyethylene liner (or equivalent) will be placed on top of a 2-3 inch sand layer prior to construction; sloped appropriately to allow for proper drainage. Soil will be stockpiled into a 4-5 foot high top pile on the liner, by adding soil in 1 to 2-foot lifts. Air injection distribution piping will be installed with each lift. It consists of a network of 4", slotted PVC piping woven throughout the pile, shut-off valves, 1 hp blower, particle filter, moisture trap and muffler. The piping system includes shut off valves at each elevation of piping to allow varying air flow depending on moisture and contaminant levels. Slotted PVC pipes will be wrapped in geotextile fabric to prevent soil from clogging the screens. Hay bales will be placed on top of the pile to provide air space between the soil and cover allowing air circulation under the cover. The pile will be covered with a black nylon reinforced tarp and or a double layer of 8 mil polyethylene to protect

Some comments as per Oct 4th Proposal

the soil from rain and to keep it warm (NYSDEC-STARS#2 1996). The cover will be anchored over the perimeter berm to allow rainwater to runoff outside the berm.

Prior to placement in the pilot-study cell, the soil will be amended with nutrients (phosphorus and nitrates), supplemented with hydrocarbon-reducing microbes (see Appendix A). Fertilizer manufactured by the Scotts Company (or equivalent) will be used to amend the soil. The fertilizer will improve the texture and moisture-holding capacity of the soil and increase the overall amount of microbial activity in the system. The nutrients, coupled with the hydrocarbon-reducing microbes, are expected to enhance the microbial consortium in the system, which will promote degradation of the petroleum hydrocarbons. Lime will be mixed with the soil in agronomically-correct doses to buffer soil pH. The soil and amendments will be mixed at the site using a pug mill. GF will monitor and add water to the biopile throughout the study to maintain moisture content and microbial conditions as explained ahead.

5.3 Landfarming Pilot Study

The landfarming treatment unit will be constructed on an impervious surface (double layer of 8 mil polyethylene (or equivalent) on top of 2-3 inch layer of sand (Figure 3). The overall size of the treatment cell will be approximately 50-feet wide, 50-feet long, and 0.5-feet thick. The 50-cubic yards of soil and amendments, such as calcium per oxide and nitrates, will be mixed by a pug mill. Petroleum-degrading microbes will be incorporated in the soil to ensure a suitable starting culture prior to treatment. The treatment area will be tilled as needed to aerate the soils and accelerate the degradation of the contaminants. GF will monitor and add water to the biopile throughout the study to maintain moisture content and microbial conditions. The landfarm treatment cell is not expected to be oxygen-limited because of the limited thickness of the soil layer.

AS SUBMITTED PREVIOUSLY (UNDER 10/04 PROPOSAL)

5.4 In-Situ Bioremediation Using Nitrate

The use of nitrate to enhance in-situ bioremediation of petroleum hydrocarbons is a developing remediation technique. Nitrate (NO_3) serves as a terminal electron acceptor for anaerobic and

facultative anaerobic bacteria indigenous to the soil and groundwater at the site. Nitrate is added to the subsurface by percolation from the surface in an area where hydrocarbons have impacted the soil and groundwater. Nitrate and hydrocarbons are depleted as the nitrate molecule is utilized as the terminal electron acceptor by microbes during the anaerobic metabolization of hydrocarbons. The general stoichiometry of this process is shown below. The precise stoichiometry is sufficiently uncertain due to field conditions (e.g., microbial requirements, range of hydrocarbons present in the subsurface, groundwater environment) that additional field testing would be required to ascertain the true stoichiometry of the nitrate utilization process at this site.

$$C_6H_{14} + H^+ + NO_3^- \longrightarrow CO_2 + N_2 + H_2O$$

The stoichiometric balance of the chemical reaction depends on several variables. However, an approximation of the theoretical nitrate mass requirements for the degradation of various petroleum hydrocarbons can be calculated. Stoichiometrically, approximately 6 pounds of nitrate are required to degrade 1 pound of hydrocarbons. The pilot study will establish more accurately the nitrate mass requirements for full-scale applications.

The application of nitrate is followed by consistent groundwater monitoring to determine changes in concentrations of dissolved nitrate. The oxidation/reduction potential of groundwater will also be monitored as an indicator of anaerobic bacterial activity. This monitoring will determine the rate of nitrate utilization in each location. Phosphate and sulfate may also be introduced as nutrients to the subsurface during the pilot test to further enhance bioactivity.

Nitrate will be introduced into the subsurface through the surface application of nitrate salts, including ammonium nitrate and potassium nitrate. Other salts may be utilized to provide nutrients. The exact amount of nitrate will be determined after the pilot test. Surface application will be followed by watering to increase the rate of transport to the vadose zone. Nitrate used by microbes in the vadose zone should prevent a large percentage of nitrate from reaching the groundwater.

The pilot test area, as shown on Figure 3, will consist of a square of approximately 50 X 50 feet. This location was chosen to test the effectiveness of nitrate application on an area containing medium to high concentrations of petroleum hydrocarbons.

Baseline soil samples will be collected at four test pits in the pilot test area and analyzed for TPH. Two (2) monitoring wells will be installed in the pilot test area to monitor nitrate concentration and DO and ORP in groundwater.

During heavy rains, an impervious membrane will be used to cover the pilot test area in order to prevent leachate entering groundwater and migrating out of the test pilot area.

SHOULD BE C ALL TANKS.

ANSWERS COMMENTS MADE PRE 10/04 PROPOSAL

CONTROL PILE 2. DESIGNED SECTION 5.5 IN ORIGINAL REPORT 10/04

6.0 OPERATION AND MAINTENANCE

This section describes the planned operation and maintenance activities and the sampling plan for the pilot studies described in Section 3. It is assumed that the pilot test will be operated for three to nine months. If the sampling results indicate that a longer term of operation is required to demonstrate the viability of these remedial alternatives, GF will recommend whether the pilot tests should continue or if alternate treatment options should be considered.

6.1 Pilot Treatment System Operation and Maintenance

Representatives from Blue Water will perform weekly/monthly (as needed) site visits during the planned duration of the pilot tests to inspect the three treatment units for damage due to wind, rain, exposure to the elements, and vandalism. Any damage will be corrected as soon as possible. Soil moisture and temperature will be measured with hand-held monitoring instruments at several depths within each treatment cell. Moisture content should average 22%. If the field moisture readings are less than 20 percent, the biopile and landfarming test units will be irrigated. During each monthly visit, the landfarm treatment cell will be mixed and aerated with a mechanical tiller.

STARS 2 RBCA memos SD-60 ?

The blower unit and discharge will be monitored for the following parameters using field meters:

- Air flow rate
- Temperature

6.2 Sampling and Analysis Plan

GF will conduct three to nine sampling events during the duration of pilot scale system operation. These sampling events include an initial baseline testing after system construction, sampling events after every four, six and twelve weeks of operation, and a final sampling event (see Table 1).

MUST BE BASED ON STARS

The sampling program will consist of collecting three samples from each cell using a decontaminated stainless steel hand auger. Sample locations will be selected based on visual

observation and field screening so that the areas with the highest contaminant concentrations are selected for laboratory analysis. The samples will be collected over the full depth of each pile to ensure representative sample results. The samples from each individual treatment cell will be composited. Therefore, one composite sample from each treatment cell will be submitted for laboratory analyses. Field duplicates, trip blanks, or equipment blank samples will not be collected as part of this work. The equipment will be decontaminated prior to use and after collecting each sample.

MUST BE ACCOMPANIED WITH SOWS

6.2.1 Compositing Samples

Samples to be composited shall be blended manually in a stainless steel pan or bowl using a decontaminated spoon for the three areas respectively. A new pair of clean disposable gloves will be worn for each composite soil sample collected. However, in accordance with standard sampling protocols, excessive sample handling will be minimized to the extent practical. After compositing the soil, the samples shall be tightly packed with no headspace into laboratory-provided sample containers. The sampler shall then clean the container threads with a fresh paper towel to ensure a tight seal between the jar and the lid. Excess soil will be deposited back at the sampling location.

6.2.2 Sample Preservation

After collection, the composite soil samples will be preserved in the field by placing them in a cooler with ice and maintained at approximately 4 degrees Celsius (°C) until receipt by the laboratory. The ice will be placed and sealed in double Ziploc™ bags to prevent leakage.

6.2.3 Sample Containers and Labels

Only laboratory-provided sample containers shall be used during this project. A sample label shall be placed on each container, indicating the date and time of collection, sampler's name, location, sample identification, preservatives added, and required analyses. Each container shall be placed in a suitable packing material to reduce the risk for breakage during transport.

6.2.4 Chain-of-Custody Control

Chain-of-Custody (CoC) control procedures shall be used throughout this project to establish a written record of sample handling between the sampler and the analytical laboratory. Each sample cooler shall have a copy of the CoC record attached to the inside lid at all times. One copy of the CoC form shall be retained by the sampler for inclusion in the project files. The CoC record must be completed in full and signed by the sampler(s) prior to sealing the cooler for shipment to the laboratory.

6.2.5 Sample Events and Locations

MUST BE PER STARS

6.2.5.1 Baseline Soil Sampling Event

Immediately following construction of the pilot-scale treatment cells, Blue Water/GF will collect one composite sample from each cell and test pits from the insitu bioremediation pilot test (nitrate injection) area for laboratory analysis to establish baseline conditions. Baseline samples will be analyzed for the parameters shown on Table 1.

6.2.5.2 Six Week Sampling Event

After operating the systems for each four to six-week period, (see Table 1) GF will collect one composite sample from the biopile, landfarming and nitrate injection units, only. Samples will be analyzed for the parameters shown on Table 1.

6.2.5.3 Twelve Week Sampling Event

After operating the systems for each twelve-week period, (see Table 1) GF will collect one composite sample from the biopile, landfarm, and nitrate injection units. Samples will be analyzed for the parameters shown in Table 1.

STARS Sampling 2

7.0 DATA EVALUATION, COST COMPARISON AND REPORTING

All operational data collected during the monthly site visits and the laboratory data will be documented within the project files. These data, along with the analytical results, will be summarized in a brief final report submitted to the NYSDEC. Analytical reports will be included as an appendix to the final report.

Following completion of the 36-week pilot test, GF will review the field and laboratory results and make comparisons between the treatment scenarios to evaluate the effectiveness of each system. The data and professional judgment will be used to qualitatively predict if one or more of the enhanced biological treatment methods could achieve the treatment goals and the time needed to do so.

FIGURES

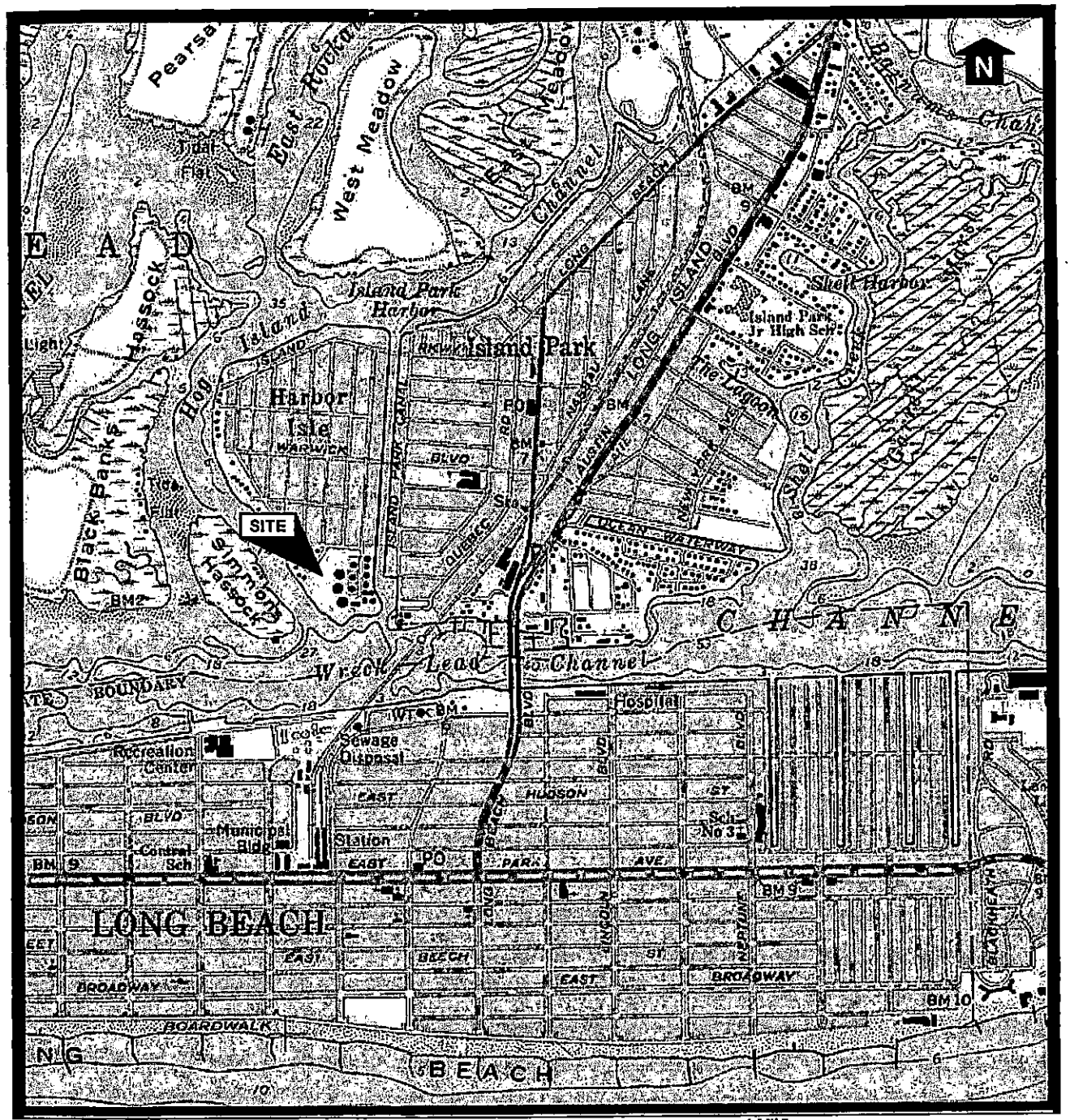

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FIGURE 1 - SITE LOCATION MAP

CIBRO ISLAND PARK SITE

ISLAND PARK, NY

USGS 7.5 Minute Series, Topographic Map – Lawrence, NY – Revised 1997

Latitude: 40° 35.886N Longitude: 73° 39.814W

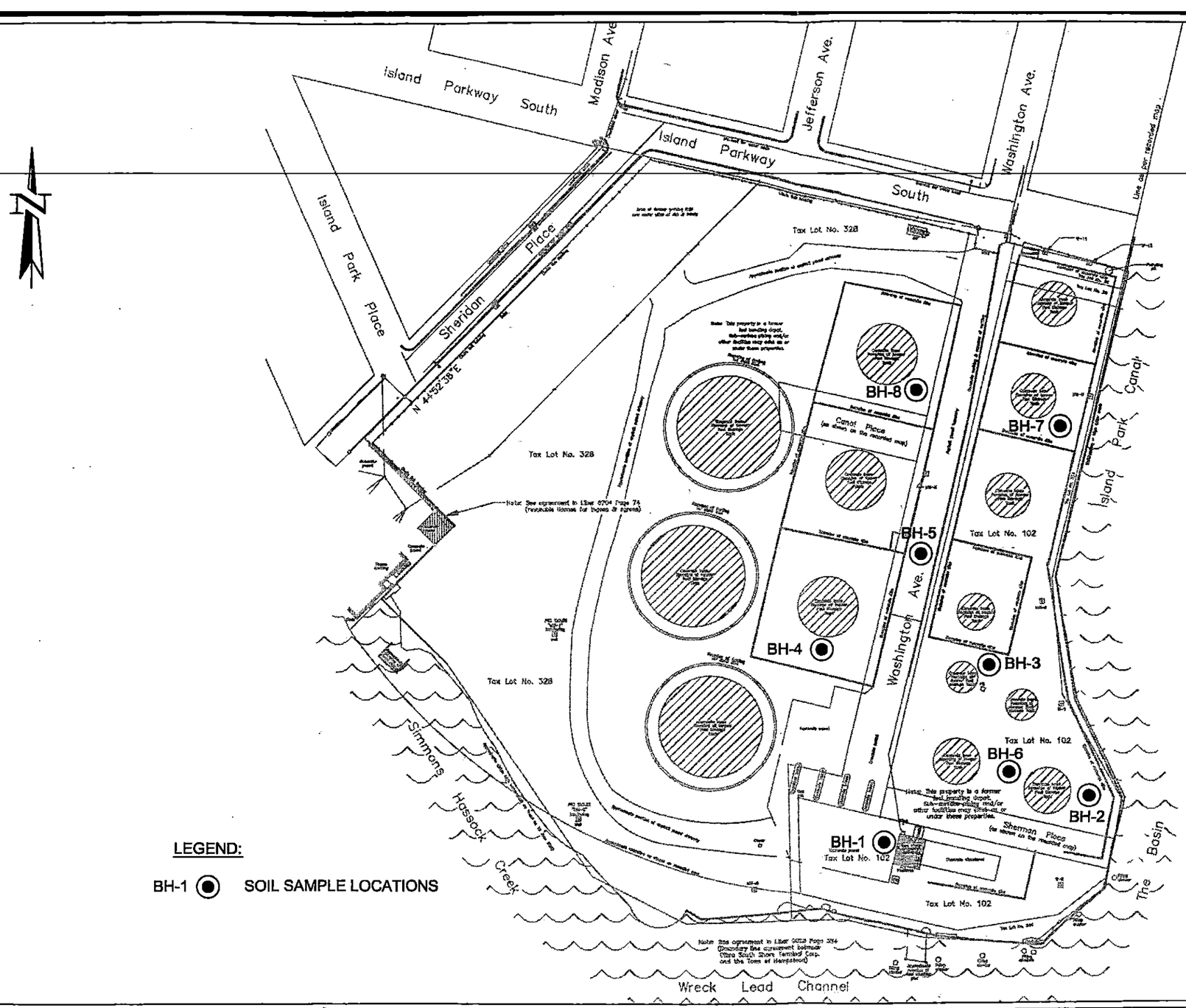
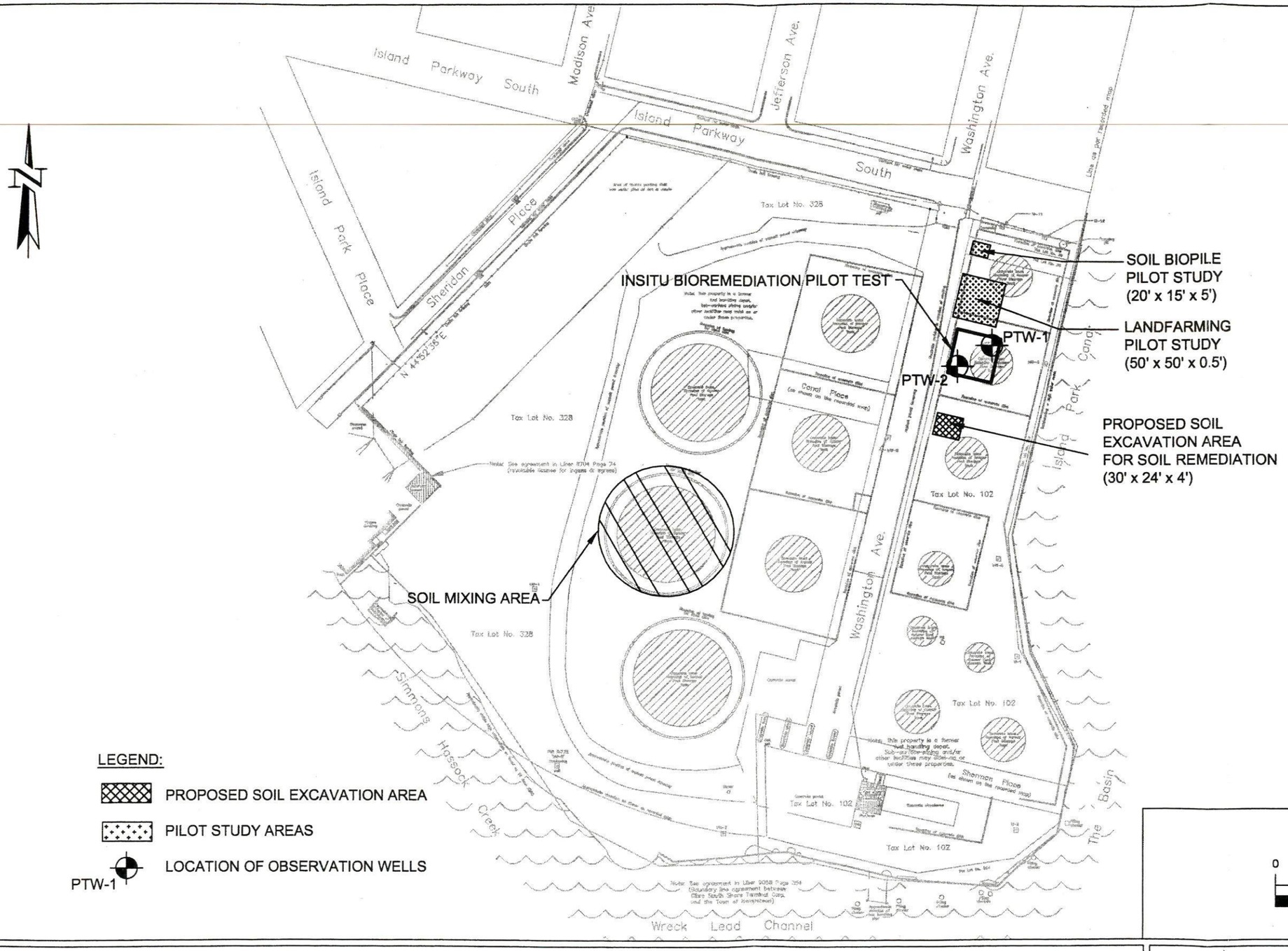


FIGURE 2. SOIL SAMPLE LOCATIONS
FORMER CIBRO PETROLEUM FACILITY
ISLAND PARK, NEW YORK

Sources: JOHN A. ROBINSON LAND SURVEYOR, JUNE 30, 2004

Gannett Fleming
ENGINEERS AND PLANNERS
PRINCETON, NEW JERSEY



LEGEND:

- PROPOSED SOIL EXCAVATION AREA
- PILOT STUDY AREAS
- PTW-1 LOCATION OF OBSERVATION WELLS

AREAS MAY BE INAPPROPRIATE

SCALE

0 60 120 180 240

1 INCH = 120 FEET

FIGURE 3. LOCATIONS OF PILOT TEST AREAS
FORMER CIBRO PETROLEUM FACILITY
ISLAND PARK, NEW YORK

Sources: JOHN A. ROBINSON LAND SURVEYOR, JUNE 30, 2004

Gannett Fleming
ENGINEERS AND PLANNERS
PRINCETON, NEW JERSEY

TABLES

Table 1: Small Scale Bioremediation Sampling Plan

Pretreatment Sampling:	TPH[1], total soil concentration[2], microbes[3], and soil sieve analysis (grain distribution size)[4] and pH[5].
Sampling During Treatment:	
Every 4-6weeks:	TPH[1] and microbes[3]
Every 8-12 weeks:	TPH[1], indicator compounds[6], microbes[3] and pH[5]
End of Season:	TPH[1], total soil concentration[2] and microbes[3]
Next Season Startup:	TPH[1], total soil concentration[2], microbes[3] and pH[5]
Project Closeout:	Total soil concentration, TCLP[2], and microbes[3]

1. TPH analysis is performed using EPA Method 418.1
2. Total soil concentration analysis and TCLP extract analysis will be performed using EPA Method 8260 and 8270 (base neutrals) for fuel oil, in accordance with STARS Memo # (NYSDEC).
3. Microbe counts can be measured by colony-forming units (CFU) and colony-utilizing population (CPU).
4. Soil sieve analysis (grain size distribution) is conducted to classify soil type and to determine whether or not composting would be recommended to promote better aeration, such as in clays.
5. pH measurements.
6. Indicator compounds to analyzed for gasoline include BTEX using EPA Method 8260.
   Indicator compounds to be analyzed for fuel oil will be determined based on the total soil concentrations.

*Extracted from Spill Technology and Remediation Series (STARS) issued by the New York State Department of Environmental Conservation.

APPENDIX A

HYDROCARBON REDUCING MICROBES

APPENDIX A

HYDROCARBON REDUCING MICROBES

For the treatment of gasoline-range hydrocarbons, Gannett Fleming recommends PetroZyme product bundle, which includes Multi-Enzyme Complexes (EZT-MZC), Enzyme Accelerator (EZT-EA) and TPH Bacterial Consortium (EZT-A2). These biological amendments are formulated to work together for maximum biological growth and contaminant degradation, and perform the following critical microbial functions:

1. Supply of a large population of pre-acclimated bacteria to optimize initial growth of a healthy, in-situ, hydrocarbon-degrading microbial population.

2. Maximum contact between the contaminants and the bacteria. Bioremediation is a contact technology – the bacteria must physically contact the petroleum food source as well as the electron acceptors (oxygen, nitrate, sulfate) to biochemically oxidize and degrade the petroleum compounds. This is especially critical for naphthalene and xylenes, which have an affinity for soil adsorption.

3. Supply of critical nutrients like nitrogen, phosphorus, and potassium to support ongoing biological growth. The nutrient compounds can also act as secondary electron acceptors to ensure continuous contaminant degradation during temporary absences of oxygen.

The PetroZyme product bundle has an ex-situ application rate of 1 gallon for every 8-10 cubic yards. For the pilot tests, we will need approximately 2-5 gallons of product. To ensure contact and optimum results, we recommend a minimum of 5 gallons for the pilot test applications.

The PetroZyme products come in a concentrated liquid form and are pre-activated to begin immediate contaminant degradation. These products will need to be mixed with water to make a working solution for application to the landfarm soil. The standard dilution rate is a 1:10 to 1:20, depending upon the soil type. For the pilot study applications, the products can be mixed in a small tank and sprayed onto the treatment area with a hand sprayer.

APPENDIX B
SUMMARY OF THE
VOLATILE ORGANIC COMPOUNDS

Summary of Volatile Organic Compound Analyses for Ground-Water Samples Collected at the Former Cibro Petroleum Facility, Island Park, New York.
LAW Project Number 22006-0-0026

Well Identification: / Date Sampled:	MW-1 1/8/01	MW-2 1/8/01	MW-3R 1/9/01	MW-6 1/9/01	LMW-1 1/9/01	LMW-2 1/10/01	LMW-3 1/10/01	LMW-4 1/8/01	LMW-5 1/9/01	*NYSDEC Ground-Water Standards
Benzene	ND	ND	ND	ND	109	ND	ND	ND	ND	1
Toluene	ND	ND	ND	ND	ND	0.79	ND	ND	ND	5
Ethylbenzene	ND	ND	ND	ND	48	34.1	ND	ND	ND	5
m, p-xylenes	ND	ND	ND	ND	1.1	20.5	ND	ND	ND	5
o-xylenes	ND	ND	ND	ND	1	4.6	ND	ND	ND	5
Total BTEX	ND	ND	ND	ND	159.1	59.99	ND	ND	ND	NS
Isopropylbenzene	ND	ND	3.8	ND	23.3	8	ND	ND	ND	5
n-Propylbenzene	ND	ND	5.6	ND	28.5	12.1	ND	ND	ND	5
1,3,5-trimethylbenzene	ND	ND	ND	ND	4	19.9	ND	ND	ND	5
tert-butylbenzene	ND	ND	ND	ND	0.85	ND	ND	ND	ND	5
1,2,4-trimethylbenzene	ND	ND	ND	ND	ND	123	ND	ND	ND	5
sec-butylbenzene	ND	ND	2.6	ND	9.4	4.4	ND	ND	ND	5
p-isopropyltoluene	ND	ND	15.8	ND	6.1	7.9	ND	ND	ND	5
n-Butylbezene	ND	ND	ND	ND	6.5	6.8	ND	ND	ND	5
Napthilnlene	ND	ND	118	ND	352	148	ND	ND	ND	10
MTBE	ND	ND	ND	ND	15.9	ND	ND	ND	ND	50
Total Volatile Organic Compounds	ND	ND	145.8	ND	446.55**	330.10**	ND	ND	ND	NS

All concentrations in micrograms per liter; equivalent to parts per billion.
ND Not detected above laboratory reporting limits.
NS No Standard.
* New York State Ambient Water Quality Standards and Guidance Values, June 1998.
** Total volatile organic compounds, excluding total BTEX.

Prepared by/Date: SH 2/6/01 SH
Checked by/Date: JR 2/12/01 JR

Summary of Volatile Organic Compound Analyses for Ground-Water Samples Collected at the Former Cibro Petroleum Facility, Island Park, New York.
LAW Project Number 22000-9-0826

Well Identification: Date Sampled:	OW-1 1/8/01	W-2 1/10/01	W-11 1/9/01	W-12 1/9/01	FB-010801 1/8/01	FB-010901 1/9/01	TB-010801 1/8/01	TB-010901 1/10/01	*NYSDEC Ground-Water Standards
Benzene	ND	ND	ND	ND	ND	ND	ND	ND	1
Toluene	ND	ND	ND	ND	ND	ND	ND	ND	5
Ethylbenzene	ND	ND	ND	ND	ND	ND	ND	ND	5
m, p-xylenes	ND	ND	ND	ND	ND	ND	ND	ND	5
o-xylenes	ND	ND	ND	ND	ND	ND	ND	ND	5
Total BTEX	ND	ND	ND	ND	ND	ND	ND	ND	NS
Isopropylbenzene	ND	ND	ND	ND	ND	ND	ND	ND	5
n-Propylbenzene	ND	ND	ND	ND	ND	ND	ND	ND	5
1,3,5-trimethylbenzene	ND	ND	ND	ND	ND	ND	ND	ND	5
tert-butylbenzene	ND	ND	ND	ND	ND	ND	ND	ND	5
1,2,4-trimethylbenzene	ND	ND	ND	ND	ND	ND	ND	ND	5
sec-butylbenzene	ND	ND	ND	ND	ND	ND	ND	ND	5
p-isopropyltoluene	ND	ND	ND	ND	ND	ND	ND	ND	5
n-Butylbezene	ND	ND	ND	ND	ND	ND	ND	ND	5
Napththalene	ND	ND	5.8	ND	ND	ND	ND	ND	10
MTBE	ND	ND	ND	ND	4.1	3.9	3.8	4.6	50
Total Volatile Organic Compounds	ND	ND	5.8	ND	4.1	3.9	3.8	4.6	NS

All concentrations in micrograms per liter; equivalent to parts per billion.
ND Not detected above laboratory reporting limits.
NS No Standard.
* New York State Ambient Water Quality Standards and Guidance Values, June 1998.

Prepared by/Date: SH 2/6/01 SR
Checked by/Date: JR 2/12/01 SR

Summary of Base Neutral Compound Analyses for Ground-Water Samples Collected at the Former Cibro Petroleum Facility, Island Park, New York. LAW Project Number 22000-0-0026

Well Identification: Date Sampled:	MW-1 1/8/01	MW-2 1/8/01	MW-3R 1/9/01	MW-6 1/9/01	LMW-1 1/9/01	LMW-2 1/10/01	LMW-3 1/10/01	LMW-4 1/8/01	LMW-5 1/9/01	*NYSDEC Ground-Water Standards
Naphthalene	ND	ND	44.1	0.50J	420	146	0.43J	0.43J	ND	10
Acenaphthene	ND	1.7	4.7	0.54J	7.5	6.2	ND	ND	ND	20
Fluorene	ND	ND	5.1	ND	13.8	8.9	ND	ND	ND	50
Phenanthrene	ND	ND	4.4	ND	14.3	10.8	ND	0.43J	ND	50
Anthracene	ND	ND	ND	ND	0.39J	0.77J	ND	ND	ND	50
Fluoranthene	ND	0.34J	ND	ND	ND	ND	ND	ND	ND	50
Pyrene	ND	0.24J	ND	ND	ND	ND	ND	ND	ND	50

All concentrations in micrograms per liter; equivalent to parts per billion.
ND Not detected above laboratory reporting limits.
NS No Standard.
J Indicates an estimated value; concentration reported was detected below the method detection limit.
* New York State Ambient Water Quality Standards and Guidance Values, June 1998.

[redacted]

Prepared by/Date: SH 2/6/01
Checked by/Date: JR 2/12/01

Summary of Base Neutral Compound Analyses for Ground-Water Samples Collected at the Former Cibro Petroleum Facility, Island Park, New York. LAW Project Number 22800-0-0026

Well Identification: / Date Sampled:	OW-1 1/8/01	W-2 1/10/01	W-11 1/9/01	W-12 1/9/01	FB-010801 1/8/01	FB-010901 1/9/01	TB-010801 1/8/01	TB-011001 1/10/01	*NYSDEC Ground-Water Standards
Napththalene	ND	ND	0.72J	0.33	ND	ND	NA	NA	10
Acenaphthene	ND	ND	14.7	5	ND	ND	NA	NA	20
Fluorene	ND	ND	4.4	1.5	ND	ND	NA	NA	50
Phenanthrene	ND	ND	2.7	0.87	ND	ND	NA	NA	50
Anthracene	ND	ND	0.39J	ND	ND	ND	NA	NA	50
Fluoranthene	ND	ND	0.86	ND	ND	ND	NA	NA	50
Pyrene	ND	ND	0.39J	ND	ND	ND	NA	NA	50

All concentrations in micrograms per liter; equivalent to parts per billion.
ND Not detected above laboratory reporting limits.
NS No Standard.
J Indicates an estimated value; concentration reported was detected below the method detection limit.
NA Not analyzed.
* New York State Ambient Water Quality Standards and Guidance Values, June 1998.

Prepared by/Date: SH 2/6/01
Checked by/Date: JR 2/12/01

Table 2. Summary of Detected Volatile and Semi-Volatile Organic Compounds Reported at Concentrations Above NYSDEC Ambient Water Quality Standards in Ground-Water Samples Collected at the Former Cibro Petroleum Facility, Island Park, New York.

Sample ID:	W-11	MW-3R	NYSDEC
Lab ID:	L2919-3	L2919-4	Ambient
Date Sampled:	5/15/01	5/15/01	Water Quality
Compound (ug/L)			Standards
VOCs			
Benzene	--	3.8	1
Naphthalene	--	67.3	10
SVOCs			
Chrysene	0.55	--	0.002
Benzo(a)anthracene	0.72	--	0.002
Acenaothene	37.5	--	20

ug/L Micrograms per liter; equivalent to parts per billion.
-- Compound either not detected above laboratory reporting limits or below NYSDEC standards.
Ground-water samples collected in monitoring wells MW-1, MW-2, LMW-3, LMW-4, OW-1, W-2, and W-12 did not have constituents detected above NYSDEC standards and were not included in this table (see results in Attachment A)

Prepared/Date: DJN 7/10/01
Checked/Date: SH 7/12/01

LAWGIBB GROUP

August 20, 2001

Mr. Nick Acampora
New York State Department of Environmental Conservation
Region 1
Spill Prevention and Response
Building 40 - SUNY
Stony Brook, New York 11790-2356

Via U.S.Mail

Subject: **Results of Supplemental and Ground-Water Investigation**
Former Cibro Petroleum Terminal
Island Park, New York
LAW Project Number 22000-1-0008

Dear Mr. Acampora:

On behalf of Blue Island, LLC, Law Environmental Consultants, Inc. (LAW), has enclosed a copy of the Results of Supplemental Soil and Ground-Water Investigation for the former Cibro Petroleum Terminal in Island Park, New York.

If you have any questions or need additional information, please call Mr. Michael Posillico at 631-752-2145.

Sincerely,

LAW ENVIRONMENTAL CONSULTANTS, INC.

Arul Ayyaswami
Technical Director

Douglas J. Newton, CPG
Senior Hydrogeologist

Cc: Michael Posillico, President – Blue Island

LAW Engineering and Environmental Services, Inc.
One Summit Square, Suite 402, Rt. 413 & Doublewoods Rd. • Langhorne, PA 19047
215-860-1963 • Fax: 215-860-5360

LAWGIBB GROUP

August 6, 2001

Michael Posillico, President
Blue Island, LLC
1610 New Highway
Farmingdale, New York 11735

VIA US Mail

Subject: **Results of Supplemental Soil and Ground-Water Investigation**
Former Cibro Petroleum Terminal
Island Park, New York
LAW Project 22000-1-0008

Dear Mr. Posillico:

Law Environmental Consultants, Inc. (LAW) is pleased to present this report of Supplemental Soil and Ground-Water Investigation that was performed at the former Cibro Petroleum facility in Island Park, New York. The purpose of the supplemental soil characterization study was to assess potential "clean areas" of the Island Park site that were identified during this site investigation. The "clean areas" were defined as areas where total petroleum hydrocarbons (TPH) concentrations in soil were less than 500 milligrams per kilogram (mg/kg) and soil quality would be less than New York State Department of Environmental Conservation (NYSDEC) soil cleanup objectives. Ground-water samples were also collected in existing monitoring wells at the site and compared to applicable NYSDEC guidelines.

Our scope of work was performed in general accordance with LAW Proposal 22099-0-0000/61 dated May 9, 2001, which was authorized by Mr. Michael Posillico, Blue Island LLC. Provided below is a summary of the background information, methodology, results, conclusions and recommendations.

BACKGROUND

The Cibro Island Park site is an 11-acre parcel of land (zoned industrial) located at 7 Washington Avenue in the Township of Island Park in Nassau County, New York (see Figure 1). According to information reviewed by LAW, the site was used as a petroleum bulk storage facility since the 1940's. In 1973, Cibro purchased the site from OPI, Inc. and continued its operation as a bulk storage terminal through 1990. During peak operations, the terminal facility contained 14 aboveground storage tanks with a total capacity

LAW Engineering and Environmental Services, Inc.
One Summit Square, Suite 402, Rt. 413 & Doublewoods Rd. • Langhorne, PA 19047
215-860-1963 • Fax: 215-860-5360

of 17,675,000 gallons and one underground storage tank (UST), which was abandoned prior to Cibro's ownership. According to Cibro, the former UST had a capacity of 3,000 gallons and was located near a former dispensing system; the contents of the UST are unknown. Currently, the Island Park site is not used, and the aboveground tanks have been removed.

During the past 10 to 12 years several subsurface investigation were performed at the Island Park site to assess the potential presence of environmental impacts related to past site activities. The investigations included the installation of test pits, soil borings and ground-water monitoring wells, as well as the collection and analysis of soil and ground-water samples. The results of these investigations indicated the presence of petroleum hydrocarbon impacts in soil, ground water and adjacent surface water at the site. In addition, a limited area of PCB-impacted soil was identified near the southwest portion of the site.

LAW prepared a cleanup plan for the former Cibro Petroleum site in Island Park, New York (Island Park site). This cleanup plan presents a summary of the results of the site investigation project that was completed in January 2001, and provides our approach for soil and ground-water remediation at the Island Park site.

METHODOLOGY

The following sections describe field procedures utilized to perform the supplemental soil and ground-water investigation. Field sampling activities were performed by LAW on May 14 and 15, 2001.

Soil Sample Collection

As part of the supplemental soil characterization study, 21 surface soil samples were collected at the locations shown on Figure 2. The sample locations are designated as SS-1 through SS-21. The samples were collected at a depth of 0-2 feet below the ground surface (bgs) by hand using decontaminated stainless steel sampling equipment. The soil samples were submitted to ETL Laboratory (ETL), a New York State-approved laboratory and were analyzed for volatile organic compounds (VOCs) and semi-volatile organic compounds (SVOCs) using USEPA Methods 8021 and 8270, respectively. As agreed to during a May 4th, 2001 conference call with the NYSDEC, selected samples were to be analyzed for RCRA metals to evaluate the potential presence of these constituents. Approximately 20 percent of the soil samples (6 out of 21) collected during the supplemental soil study were analyzed for RCRA metals.

Sample results were compared with the soil quality criteria specified in the NYSDEC's Technical and Guidance Memorandum (TAGM) 4046.

In addition to the 21 shallow soil samples, LAW completed several borings by hand in the area where PCBs were previously reported. These borings, designated as PB-3a, PC-3a, PD-1a, PD-2a, PD-4a, PE-2a, PE-3a, and PF-2a were advanced with stainless steel sampling equipment to a maximum depth of two feet bgs. A total of eight borings were completed; five borings were advanced at the approximate locations of the five borings that previously had PCBs reported in the soil samples (PC-3a, PD-2a, PD-4a, PE-2a, and PE-3a). Three of the eight borings (PB-3a, PD-1a, and PF-2a) were advanced along the outside perimeter of the "effected area" depicted on Subsurface Investigations, Inc.'s PCB sampling location map (see Appendix D of LAW's Cleanup Plan). Sample depths were established in consultation with Mr. Nick Acampora of the NYSDEC during a May 14, 2001 meeting. One soil sample was collected from each boring at the approximate interval as discussed with NYSDEC. The soil samples were submitted to ETL and analyzed for PCBs by USEPA Method 8081. Copies of the laboratory analytical results for the soil samples are provided in Attachment A. Copies of the boring logs are provided in Attachment B.

Ground-Water Sample Collection

Existing ground-water monitoring wells located within the potential "clean soil zone", defined as soil exhibiting concentrations of total petroleum hydrocarbons of less than 500 mg/kg, were sampled and analyzed for VOCs and SVOCs. The following nine monitoring wells were sampled: LMW-3, LMW-4, OW-1, W-2, MW-1, MW-2, MW-3R, W-11, and W-12 (Figure 2). The ground-water samples were submitted to ETL for analysis of VOCs and SVOCs using USEPA Methods 8021 and 8270, respectively. Copies of the laboratory analytical results are provided in Attachment A.

Because biogeochemical parameters were not analyzed during this sampling event, the wells were sampled using the conventional three-volume purge method. Wells were purged at a rate of between 0.5 to 1 gallon per minute (gpm) and ground-water samples were collected using dedicated disposal polyethylene bailers. Field parameters (pH, conductivity, and temperature) were collected during purging and at sample collection and recorded on the water sampling logs. Copies of water sampling logs are provided in Attachment C.

RESULTS

Soil Quality

No VOCs were detected in the surface soil samples at concentrations above the NYSDEC Recommended Soil Cleanup Objectives.

Five of the 21 soil samples collected in the "clean soil area" had concentrations of several SVOCs above the soil cleanup objective to protect ground water (SCOGW). As shown in Table 1, chrysene was detected in samples SS-17 (5,720 micrograms per kilogram (ug/kg)), SS-13 (2,920 ug/kg), SS-3 (1,300 ug/kg), SS-19 (845 ug/kg), and SS-11 (665 ug/kg) at concentrations above the SCOGW (400 ug/kg). Benzo(b)fluoranthene was detected in samples SS-17 (6,610 ug/kg), SS-13 (3,780 ug/kg), and SS-3 (1,330 ug/kg) at concentrations above the SCOGW (1,100 ug/kg). Benzo(a)anthracene was detected at a concentration of 5,760 ug/kg in sample SS-17, which is above the SCOGW (3,000 ug/kg). Benzo(k)anthracene was detected in samples SS-13 and SS-17 at concentrations of 2,770 ug/kg and 3,590 ug/kg, respectively, which is also above the SCOGW (1,100 ug/kg). A summary of SVOCs detected above NYSDEC standards are provided in Table 1. Other detected SVOCs were reported at levels below their respective SCOGW (see laboratory report in Attachment A).

Chromium was the only metal detected in the soil samples collected during May 2001 at a concentration above the soil cleanup objectives. Chromium was detected in sample SS-6 at a concentration of 10.1 ug/kg, which is slightly above the soil cleanup objective (10 ug/kg).

PCB-1248 (arochlor-1248) was detected in seven of the nine soil samples collected for PCB analysis. The detected concentrations of arochlor-1248 ranged from 62.1 ug/kg to 430 ug/kg, which are below the recommended soil cleanup objective for surface soils (1,000 ug/kg). No other arochlors were detected in the soil samples above the method detection limits.

Water Quality

As shown in Table 2, benzene and naphthalene were detected at concentrations above the NYSDEC ambient water quality standard. Benzene and naphthalene were detected in well MW-3R at concentrations of 3.8 micrograms per liter (ug/L) and 67.3 ug/L, respectively, which are above the

ambient water quality standards of 1 ug/L and 10 ug/L, respectively, for these compounds. No other VOCs were reported at concentrations above the ambient water quality standards in wells sampled during the May 15, 2001 sampling round.

Three SVOCs were detected in well W-11 at concentrations above the NYSDEC ambient water quality standards. Chrysene was detected in well W-11 at a concentration of 0.55 ug/L, which is above the standard of 0.002 ug/L. Benzo(a)anthracene was detected at a concentration of 0.72 ug/L, which is above the the standard of 0.002 ug/L. Acenapthene was detected at a concentration of 37.5 ug/L, which is above the standard of 20 ug/L. No other wells sampled during the May 15, 2001 sampling round contained SVOCs at concentrations above the ambient water quality standards. A summary of SVOCs detected above NYSDEC standards for ground-water is provided in Table 2.

CONCLUSIONS AND RECOMMENDATIONS

Conclusions

1. No VOCs were detected in soil samples collected during the supplemental soil investigation at concentrations above the NYSDEC Recommended Soil Cleanup Objectives.

2. SVOCs were either not detected or detected at concentrations below SCOGW in 16 of the 21 soil samples collected in the clean zone. Chrysene, benzo(b)flouranthene, benzo(a)anthracene, dibenzo(a,h)anthracene, benzo(a)pyrene, and benzo(k)anthracene were detected in five (SS-3, SS-11, SS-13, SS-17, and SS-19) of the 21 soil samples at concentrations above the NYSDEC SCOGW.

3. Two VOCs, (benzene and naphthalene) were detected above NYSDEC ambient water quality standards in the ground-water sample collected from well MW-3R. No other VOCs were detected above the NYSDEC ambient water quality standards in the wells sampled.

4. Three SVOC (chrysene, benzo(a)anthracene, and acenapthene) were detected above NYSDEC ambient water quality standards in the ground-water sample collected from well W-11. No other SVOCs were detected above NYSDEC ambient water quality standards in the wells sampled.

Recommendations

1. No further action regarding the presence of PCBs near the southwest portion of the site is warranted at this time. However, a vegetated soil cover will be installed over this portion of the site as part of the development of site.

2. The areas near soil samples SS-13, SS-17, and SS-19 will be covered with both fill material and a vegetated soil cover. Ground water samples will be collected in wells downgradient of these areas to monitor ground water quality over time.

3. Portions of soil near sample locations SS-3 and SS-11 will be excavated during site cleanup activities and will be treated in the proposed on-site biopile remediation. The remainder of these area will be covered with fill material and a vegetated soil cover,

4. Soil excavation is proposed in the areas of wells W-11 and MW-3R. The soil excavation will be completed in a phased approach as described in the Cleanup Plan for Soil and Ground Water (LAW, 2001). Upon completion of the excavation activities, ground water will be monitored in well W-11 (after completion of Phase I) and well MW-3R (after completion of Phase IV).

CLOSING

We look forward to providing our continued environmental consulting services on this important project. Please call us if you have any questions or if we may be of further service.

Sincerely,

LAW ENVIRONMENTAL CONSULTANTS, INC.

Douglas J. Newton, CPG, PG
Senior Hydrogeologist

Brent R. Chapman, PG
Principal Geologist
BY DJN WITH PERM

Arul Ayyaswami
Senior Engineer

TABLES

Table 1. Summary of Semi-Volatile Organic Compounds Reported at Concentrations Above NYSDEC Recommended Soil Cleanup Objectives in Soil Samples Collected at the Former Cibro Petroleum Facility, Island Park, New York.

Sample ID:	SS-3	SS-4	SS-8	SS-9	SS-11	SS-12	NYSDEC Soil	NYSDEC
Lab ID:	L2919-3	L2919-4	L2619-11	L2619-9	L2619-8	L2619-12	Cleanup Objectives	Recommended
Date Sampled:	5/14/01	5/14/01	5/14/01	5/14/01	5/14/01	5/14/01	to Protect	Soil Cleanup
Compound (ug/kg)							Ground Water	Objective
Chrysene	1,300	--	--	--	665	--	400	400
Benzo(b)fluoranthene	1,330	--	--	--	--	--	1,100	1,100
Benzo(a)anthracene	1,080	--	--	--	622	--	3,000	224
Dibenzo(a,h)anthrance	117	--	--	--	55	--	165,000,000	14
Benzo(a)pyrene	792	87	229	125	585	127	11,000	61

Sample ID:	SS-13	SS-14	SS-15	SS-16	SS-17	SS-19	NYSDEC Soil	NYSDEC
Lab ID:	L2919-13	L2919-14	L2619-15	L2619-16	L2619-17	L2619-19	Cleanup Objectives	Recommended
Date Sampled:	5/14/01	5/14/01	5/14/01	5/14/01	5/14/01	5/14/01	to Protect	Soil Cleanup
Compound (ug/kg)							Ground Water	Objective
Chrysene	2,920	--	--	--	5,720	845	400	400
Benzo(b)fluoranthene	3,780	--	--	--	6,610	--	1,100	1,100
Benzo(a)anthracene	2,550	--	276	--	5,760	848	3,000	224
Dibenzo(a,h)anthrance	249	--	--	--	437	--	165,000,000	14
Benzo(a)pyrene	2,600	129	--	109	3,840	631	11,000	61
Benzo(k)flouranthene	2,770	--	--	--	3,590	--	1,100	1,100

ug/kg Micrograms per kilogram; equivalent to parts per billion.

-- Compound either not detected above laboratory reporting limits or below NYSDEC standards.

Soil samples collected at locations SS-1, SS-2, SS-5, SS-6, SS-7, SS-10, SS-20, and SS-21 did not have constituents above NYSDEC standards and were not included in this table (see results in Attachment A)

Prepared/Date: DJN 7/10/01 DJN

Checked/Date: SH 7/12/01 SH

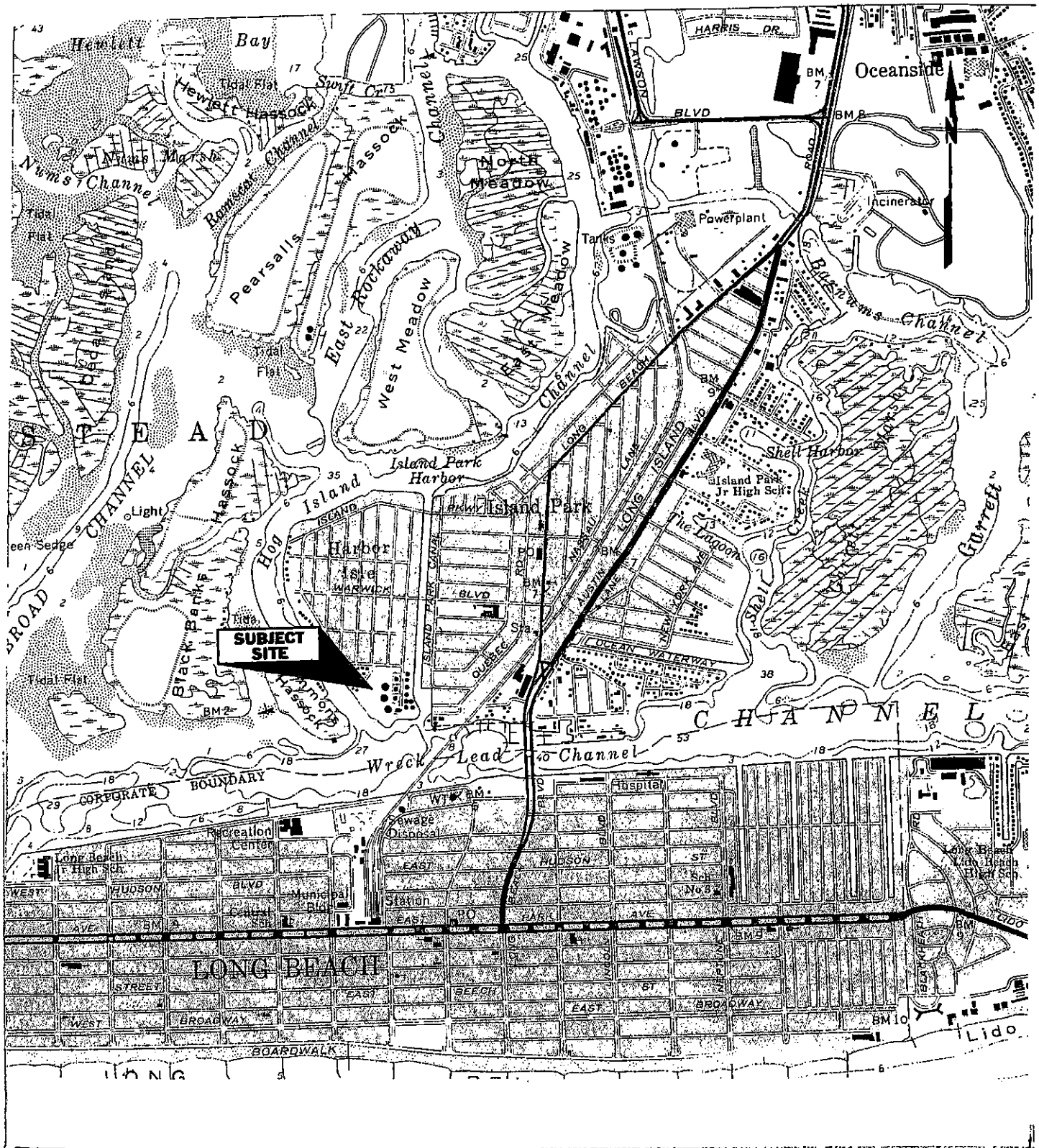
Table 2. Summary of Detected Volatile and Semi-Volatile Organic Compounds Reported at Concentrations Above NYSDEC Ambient Water Quality Standards in Ground-Water Samples Collected at the Former Cibro Petroleum Facility, Island Park, New York.

Compound (ug/L)	*Sample ID:*	W-11	MW-3R	NYSDEC Ambient Water Quality Standards
	Lab ID:	L2919-3	L2919-4	
	Date Sampled:	5/15/01	5/15/01	
VOCs				
Benzene		--	3.8	1
Naphthalene		--	67.3	10
SVOCs				
Chrysene		0.55	--	0.002
Benzo(a)anthracene		0.72	--	0.002
Acenaothene		37.5	--	20

ug/L Micrograms per liter; equivalent to parts per billion.
-- Compound either not detected above laboratory reporting limits or below NYSDEC standards.
Ground-water samples collected in monitoring wells MW-1, MW-2, LMW-3, LMW-4, OW-1, W-2, and W-12 did not have constituents detected above NYSDEC standards and were not included in this table (see results in Attachment A)

Prepared/Date: DJN 7/10/01 DJN
Checked/Date: SH 7/12/01 SH

FIGURES



SOURCE: USGS LAWERENCE, NEW YORK 7.5 MINUTE TOPOGRAPHIC QUANDRANGLE, PHOTOREVISED 1979

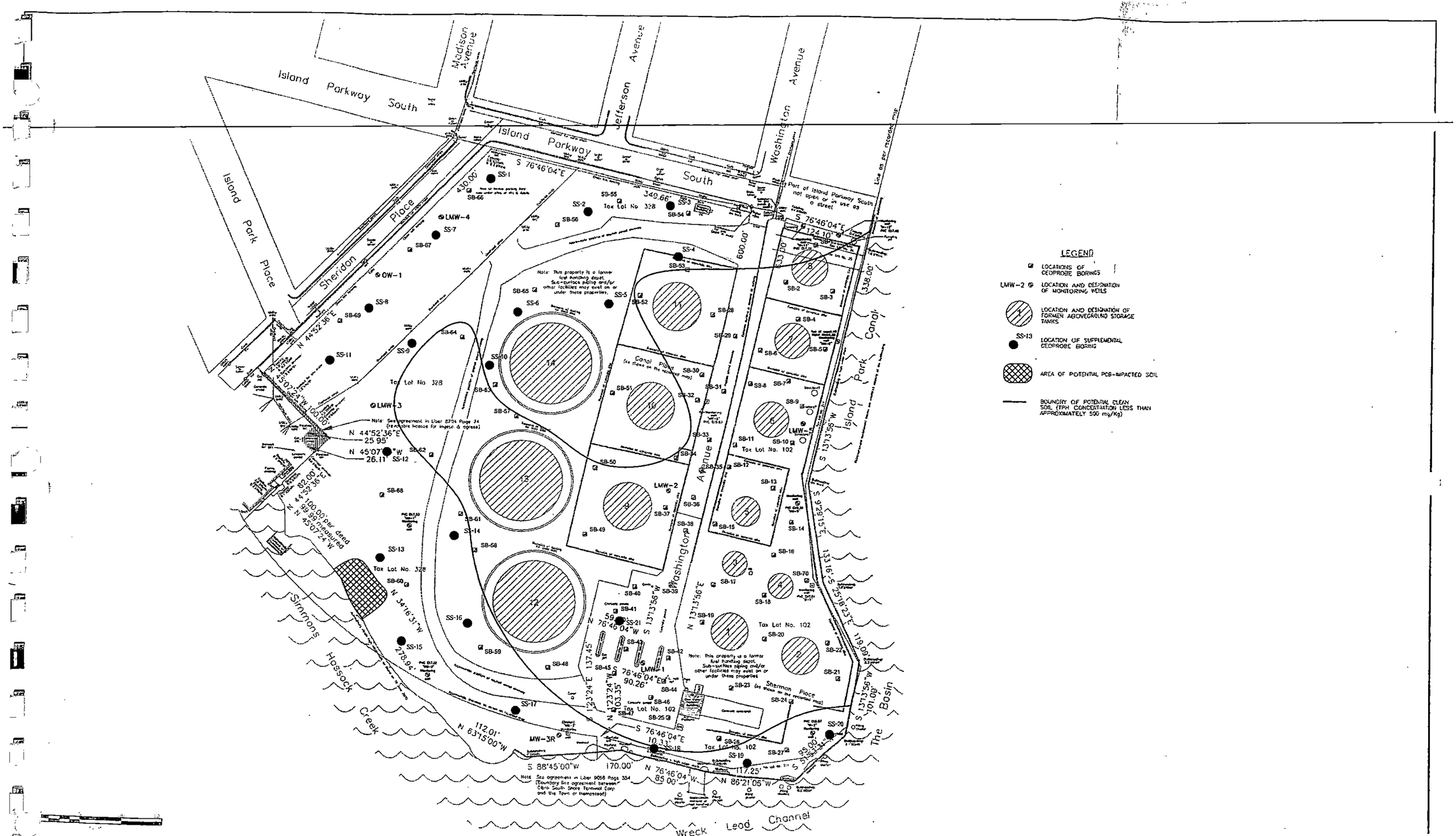
0 2000 4000

1"=2000'

QUADRANGLE LOCATION

LAW LAW Gibb Group Member	FORMER CIBRO ISLAND PARK SITE ISLAND PARK, NEW YORK	SITE LOCATION MAP	PRINCIPAL D.N. PROJECT MANAGER XX DRAWN BY G.L.	FILE NO. 22000-0-0026 DATE 10/31/00 DWG NO. 1

SITE LOCATIO



DESCRIPTION	APP'D	REV #	DATE	BY	DESCRIPTION	APP'D

BLUE ISLAND, LLC.
FORMER CIBRO PETROLEUM FACILITY
ISLAND PARK, NEW YORK

LAW
ENGINEEERING AND ENVIRONMENTAL SERVICES, INC.

DRAWING TITLE:
LOCATIONS OF SUPPLEMENTAL SOIL BORINGS AND MONITORING WELLS

FIGURE NUMBER: Figure 2
SCALE: 1"=50'
PROJECT NUMBER: 22900-1-0014
ISSUE DATE: 2/30/01

APPENDIX A

Environmental Testing Laboratories, Inc.
208 Route 109, Farmingdale NY 11735
Phone - 631-249-1456 Fax - 631-249-8344

06/07/2001

Custody Document: L2619

Received: 05/14/2001 17:17
Sampled by: Scott Hornall

Client: Blue Waters (11260)

1610 New Highway
Farmingdale,
NY 11735

Project: Island Park

Washington Avenue
Island Park,
NY

Manager: Tom Spatafora

Respectfully submitted,

Laboratory Manager

NYS Lab ID # 10969
NJ Cert. # 73812
CT Cert. # PH0645
MA Cert. # NY061
PA Cert. # 68-535
VA Cert. # 108
NH Cert. # 252592-BA
RI Cert. # 161

Environmental Testing Laboratories, Inc.
208 Route 109, Farmingdale NY 11735
Phone - 631-249-1456 Fax - 631-249-8344

06/07/2001

Volatiles by EPA 8021B

Sample: L2619-1
Client Sample ID: SS-1
Matrix: Soil
Remarks: See Case Narrative
Analyzed Date: 05/17/2001

Type: Grab

Collected: 05/14/2001 09:05
% Solid: 92%

Cas No	Analyte	MDL	Concentration	Units	Q
75-71-8	Dichlorodifluoromethane	2.28	2.28	ppb	U
74-87-3	Chloromethane	1.95	1.95	ppb	U
75-01-4	Vinyl Chloride	1.09	1.09	ppb	U
74-83-9	Bromomethane	0.92	0.92	ppb	U
75-00-3	Chloroethane	1.79	1.79	ppb	U
75-69-4	Trichlorofluoromethane	1.41	1.41	ppb	U
75-35-4	1,1-Dichloroethene	1.74	1.74	ppb	U
75-09-2	Methylene Chloride	1.19	1.19	ppb	U
156-60-5	t-1,2-Dichloroethene	0.81	0.81	ppb	U
75-34-3	1,1-Dichloroethane	0.81	0.81	ppb	U
590-20-7	2,2-Dichloropropane	1.30	1.30	ppb	U
156-59-2	c-1,2-Dichloroethene	0.92	0.92	ppb	U
67-66-3	Chloroform	0.87	0.87	ppb	U
74-97-5	Bromochloromethane	0.92	0.92	ppb	U
71-55-6	1,1,1-Trichloroethane	0.76	0.76	ppb	U
563-58-6	1,1-Dichloropropene	2.39	2.39	ppb	U
56-23-5	Carbon Tetrachloride	1.14	1.14	ppb	U
107-06-2	1,2-Dichloroethane	1.19	1.19	ppb	U
71-43-2	Benzene	0.76	0.76	ppb	U
79-01-6	Trichloroethene	1.09	1.09	ppb	U
78-87-5	1,2-Dichloropropane	0.76	0.76	ppb	U
75-27-4	Bromodichloromethane	0.98	0.98	ppb	U
74-95-3	Dibromomethane	1.68	1.68	ppb	U
10061-01-5	c-1,3-Dichloropropene	0.98	0.98	ppb	U
108-88-3	Toluene	1.09	1.09	ppb	U
10061-02-6	t-1,3-Dichloropropene	1.19	1.19	ppb	U
79-00-5	1,1,2-Trichloroethane	1.03	1.03	ppb	U
142-28-9	1,3-Dichloropropane	2.06	2.06	ppb	U
127-18-4	Tetrachloroethene	0.98	0.98	ppb	U
124-48-1	Dibromochloromethane	1.30	1.30	ppb	U
106-93-4	1,2-Dibromoethane	1.30	1.30	ppb	U
108-90-7	Chlorobenzene	0.71	0.71	ppb	U
630-20-6	1,1,1,2-Tetrachloroethane	0.92	0.92	ppb	U
100-41-4	Ethylbenzene	0.60	**10.5**	ppb	
108-38-3	m,p-xylene	1.36	**5.20**	ppb	

Environmental Testing Laboratories, Inc.
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Phone - 631-249-1456 Fax - 631-249-8344

06/07/2001

Volatiles by EPA 8021B

Sample: L2619-1...continue
Client Sample ID: SS-1
Matrix: Soil
Remarks: See Case Narrative
Analyzed Date: 05/17/2001

Type: Grab

Collected: 05/14/2001 09:05
% Solid: 92%

Cas No	Analyte	MDL	Concentration	Units	Q
95-47-6	o-xylene	0.98	4.00	ppb	
100-42-5	Styrene	0.98	0.98	ppb	U
98-82-8	Isopropylbenzene	0.54	54.1	ppb	
75-25-2	Bromoform	1.30	1.30	ppb	U
79-34-5	1,1,2,2-Tetrachloroethane	1.09	1.09	ppb	U
96-18-4	1,2,3-Trichloropropane	2.77	2.77	ppb	U
103-65-1	n-Propylbenzene	0.76	97.2	ppb	
108-86-1	Bromobenzene	0.92	0.92	ppb	U
108-67-8	1,3,5-Trimethylbenzene	0.54	74.2	ppb	
95-49-8	2-Chlorotoluene	0.43	0.43	ppb	U
106-43-4	4-Chlorotoluene	0.76	0.76	ppb	U
98-06-6	tert-Butylbenzene	0.81	20.8	ppb	
95-63-6	1,2,4-Trimethylbenzene	1.09	37.6	ppb	
135-98-8	sec-Butylbenzene	0.65	161	ppb	
99-87-6	4-Isopropyltoluene	0.98	0.98	ppb	U
541-73-1	1,3-Dichlorobenzene	0.98	0.98	ppb	U
106-46-7	1,4-Dichlorobenzene	1.19	1.19	ppb	U
95-50-1	1,2-Dichlorobenzene	0.71	0.71	ppb	U
104-51-8	n-Butylbenzene	0.76	127	ppb	
96-12-8	1,2-Dibromo-3-chloropropane	3.64	3.64	ppb	U
120-82-1	1,2,4-Trichlorobenzene	2.06	2.06	ppb	U
87-68-3	Hexachlorobutadiene	0.76	0.76	ppb	U
91-20-3	Naphthalene	3.91	3.91	ppb	U
87-61-6	1,2,3-Trichlorobenzene	2.01	2.01	ppb	U

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208 Route 109, Farmingdale NY 11735
Phone - 631-249-1456 Fax - 631-249-8344

06/07/2001

Volatiles by EPA 8021B

Sample: L2619-2
Client Sample ID: SS-2
Matrix: Soil
Remarks: See Case Narrative
Analyzed Date: 05/17/2001

Type: Grab

Collected: 05/14/2001 09:15
% Solid: 92.6%

Cas No	Analyte	MDL	Concentration	Units	Q
75-71-8	Dichlorodifluoromethane	0.45	0.45	ppb	U
74-87-3	Chloromethane	0.39	0.39	ppb	U
75-01-4	Vinyl Chloride	0.22	0.22	ppb	U
74-83-9	Bromomethane	0.18	0.18	ppb	U
75-00-3	Chloroethane	0.36	0.36	ppb	U
75-69-4	Trichlorofluoromethane	0.28	0.28	ppb	U
75-35-4	1,1-Dichloroethene	0.35	0.35	ppb	U
75-09-2	Methylene Chloride	0.24	0.24	ppb	U
156-60-5	t-1,2-Dichloroethene	0.16	0.16	ppb	U
75-34-3	1,1-Dichloroethane	0.16	0.16	ppb	U
590-20-7	2,2-Dichloropropane	0.26	0.26	ppb	U
156-59-2	c-1,2-Dichloroethene	0.18	0.18	ppb	U
67-66-3	Chloroform	0.17	0.17	ppb	U
74-97-5	Bromochloromethane	0.18	0.18	ppb	U
71-55-6	1,1,1-Trichloroethane	0.15	0.15	ppb	U
563-58-6	1,1-Dichloropropene	0.48	0.48	ppb	U
56-23-5	Carbon Tetrachloride	0.23	0.23	ppb	U
107-06-2	1,2-Dichloroethane	0.24	0.24	ppb	U
71-43-2	Benzene	0.15	0.15	ppb	U
79-01-6	Trichloroethene	0.22	0.22	ppb	U
78-87-5	1,2-Dichloropropane	0.15	0.15	ppb	U
75-27-4	Bromodichloromethane	0.19	0.19	ppb	U
74-95-3	Dibromomethane	0.33	0.33	ppb	U
10061-01-5	c-1,3-Dichloropropene	0.19	0.19	ppb	U
108-88-3	Toluene	0.22	0.22	ppb	U
10061-02-6	t-1,3-Dichloropropene	0.24	0.24	ppb	U
79-00-5	1,1,2-Trichloroethane	0.21	0.21	ppb	U
142-28-9	1,3-Dichloropropane	0.41	0.41	ppb	U
127-18-4	Tetrachloroethene	0.19	0.19	ppb	U
124-48-1	Dibromochloromethane	0.26	0.26	ppb	U
106-93-4	1,2-Dibromoethane	0.26	0.26	ppb	U
108-90-7	Chlorobenzene	0.14	0.14	ppb	U
630-20-6	1,1,1,2-Tetrachloroethane	0.18	0.18	ppb	U
100-41-4	Ethylbenzene	0.12	0.12	ppb	U
108-38-3	m,p-xylene	0.27	0.27	ppb	U

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Phone - 631-249-1456 Fax - 631-249-8344

06/07/2001

Volatiles by EPA 8021B

Sample: L2619-2...continue
Client Sample ID: SS-2
Matrix: Soil
Remarks: See Case Narrative
Analyzed Date: 05/17/2001

Type: Grab

Collected: 05/14/2001 09:15
% Solid: 92.6%

Cas No	Analyte	MDL	Concentration	Units	Q
95-47-6	o-xylene	0.19	0.19	ppb	U
100-42-5	Styrene	0.19	0.19	ppb	U
98-82-8	Isopropylbenzene	0.11	0.11	ppb	U
75-25-2	Bromoform	0.26	0.26	ppb	U
79-34-5	1,1,2,2-Tetrachloroethane	0.22	0.22	ppb	U
96-18-4	1,2,3-Trichloropropane	0.55	0.55	ppb	U
103-65-1	n-Propylbenzene	0.15	0.15	ppb	U
108-86-1	Bromobenzene	0.18	0.18	ppb	U
108-67-8	1,3,5-Trimethylbenzene	0.11	0.11	ppb	U
95-49-8	2-Chlorotoluene	0.086	0.086	ppb	U
106-43-4	4-Chlorotoluene	0.15	0.15	ppb	U
98-06-6	tert-Butylbenzene	0.16	0.16	ppb	U
95-63-6	1,2,4-Trimethylbenzene	0.22	0.22	ppb	U
135-98-8	sec-Butylbenzene	0.13	0.13	ppb	U
99-87-6	4-Isopropyltoluene	0.19	0.19	ppb	U
541-73-1	1,3-Dichlorobenzene	0.19	0.19	ppb	U
106-46-7	1,4-Dichlorobenzene	0.24	0.24	ppb	U
95-50-1	1,2-Dichlorobenzene	0.14	0.14	ppb	U
104-51-8	n-Butylbenzene	0.15	0.15	ppb	U
96-12-8	1,2-Dibromo-3-chloropropane	0.72	0.72	ppb	U
120-82-1	1,2,4-Trichlorobenzene	0.41	0.41	ppb	U
87-68-3	Hexachlorobutadiene	0.15	0.15	ppb	U
91-20-3	Naphthalene	0.78	0.78	ppb	U
87-61-6	1,2,3-Trichlorobenzene	0.40	0.40	ppb	U

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06/07/2001

Volatiles by EPA 8021B

Sample: L2619-3

Client Sample ID: SS-3

Matrix: Soil

Type: Grab

Collected: 05/14/2001 09:40

% Solid: 92.6%

Remarks: See Case Narrative

Analyzed Date: 05/21/2001

Cas No	Analyte	MDL	Concentration	Units	Q
75-71-8	Dichlorodifluoromethane	0.45	0.45	ppb	U
74-87-3	Chloromethane	0.39	0.39	ppb	U
75-01-4	Vinyl Chloride	0.22	0.22	ppb	U
74-83-9	Bromomethane	0.18	0.18	ppb	U
75-00-3	Chloroethane	0.36	0.36	ppb	U
75-69-4	Trichlorofluoromethane	0.28	0.28	ppb	U
75-35-4	1,1-Dichloroethene	0.35	0.35	ppb	U
75-09-2	Methylene Chloride	0.24	0.24	ppb	U
156-60-5	t-1,2-Dichloroethene	0.16	0.16	ppb	U
75-34-3	1,1-Dichloroethane	0.16	0.16	ppb	U
590-20-7	2,2-Dichloropropane	0.26	0.26	ppb	U
156-59-2	c-1,2-Dichloroethene	0.18	0.18	ppb	U
67-66-3	Chloroform	0.17	0.17	ppb	U
74-97-5	Bromochloromethane	0.18	0.18	ppb	U
71-55-6	1,1,1-Trichloroethane	0.15	0.15	ppb	U
563-58-6	1,1-Dichloropropene	0.48	0.48	ppb	U
56-23-5	Carbon Tetrachloride	0.23	0.23	ppb	U
107-06-2	1,2-Dichloroethane	0.24	0.24	ppb	U
71-43-2	Benzene	0.15	0.15	ppb	U
79-01-6	Trichloroethene	0.22	0.22	ppb	U
78-87-5	1,2-Dichloropropane	0.15	0.15	ppb	U
75-27-4	Bromodichloromethane	0.19	0.19	ppb	U
74-95-3	Dibromomethane	0.33	0.33	ppb	U
10061-01-5	c-1,3-Dichloropropene	0.19	0.19	ppb	U
108-88-3	Toluene	0.22	1.10	ppb	
10061-02-6	t-1,3-Dichloropropene	0.24	0.24	ppb	U
79-00-5	1,1,2-Trichloroethane	0.21	0.21	ppb	U
142-28-9	1,3-Dichloropropane	0.41	0.41	ppb	U
127-18-4	Tetrachloroethene	0.19	0.19	ppb	U
124-48-1	Dibromochloromethane	0.26	0.26	ppb	U
106-93-4	1,2-Dibromoethane	0.26	0.26	ppb	U
108-90-7	Chlorobenzene	0.14	0.14	ppb	U
630-20-6	1,1,1,2-Tetrachloroethane	0.18	0.18	ppb	U
100-41-4	Ethylbenzene	0.12	0.12	ppb	U
108-38-3	m,p-xylene	0.27	1.30	ppb	

Environmental Testing Laboratories, Inc.
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Phone - 631-249-1456 Fax - 631-249-8344

06/07/2001

Volatiles by EPA 8021B

Sample: L2619-3...continue
Client Sample ID: SS-3
Matrix: Soil
Remarks: See Case Narrative
Analyzed Date: 05/21/2001

Type: Grab

Collected: 05/14/2001 09:40
% Solid: 92.6%

Cas No	Analyte	MDL	Concentration	Units	Q
95-47-6	o-xylene	0.19	0.19	ppb	U
100-42-5	Styrene	0.19	0.19	ppb	U
98-82-8	Isopropylbenzene	0.11	0.11	ppb	U
75-25-2	Bromoform	0.26	0.26	ppb	U
79-34-5	1,1,2,2-Tetrachloroethane	0.22	0.22	ppb	U
96-18-4	1,2,3-Trichloropropane	0.55	0.55	ppb	U
103-65-1	n-Propylbenzene	0.15	0.15	ppb	U
108-86-1	Bromobenzene	0.18	0.18	ppb	U
108-67-8	1,3,5-Trimethylbenzene	0.11	0.11	ppb	U
95-49-8	2-Chlorotoluene	0.086	0.086	ppb	U
106-43-4	4-Chlorotoluene	0.15	0.15	ppb	U
98-06-6	tert-Butylbenzene	0.16	0.16	ppb	U
95-63-6	1,2,4-Trimethylbenzene	0.22	**1.20**	ppb	
135-98-8	sec-Butylbenzene	0.13	0.13	ppb	U
99-87-6	4-Isopropyltoluene	0.19	0.19	ppb	U
541-73-1	1,3-Dichlorobenzene	0.19	0.19	ppb	U
106-46-7	1,4-Dichlorobenzene	0.24	0.24	ppb	U
95-50-1	1,2-Dichlorobenzene	0.14	0.14	ppb	U
104-51-8	n-Butylbenzene	0.15	0.15	ppb	U
96-12-8	1,2-Dibromo-3-chloropropane	0.72	0.72	ppb	U
120-82-1	1,2,4-Trichlorobenzene	0.41	0.41	ppb	U
87-68-3	Hexachlorobutadiene	0.15	0.15	ppb	U
91-20-3	Naphthalene	0.78	0.78	ppb	U
87-61-6	1,2,3-Trichlorobenzene	0.40	0.40	ppb	U

Environmental Testing Laboratories, Inc.

208 Route 109, Farmingdale NY 11735

Phone - 631-249-1456 Fax - 631-249-8344

06/07/2001

Volatiles by EPA 8021B

Sample: L2619-4

Client Sample ID: SS-4

Matrix: Soil

Type: Grab

Collected: 05/14/2001 09:55

% Solid: 79.2%

Remarks: See Case Narrative

Analyzed Date: 05/17/2001

Cas No	Analyte	MDL	Concentration	Units	Q
75-71-8	Dichlorodifluoromethane	0.53	0.53	ppb	U
74-87-3	Chloromethane	0.45	0.45	ppb	U
75-01-4	Vinyl Chloride	0.25	0.25	ppb	U
74-83-9	Bromomethane	0.21	0.21	ppb	U
75-00-3	Chloroethane	0.42	0.42	ppb	U
75-69-4	Trichlorofluoromethane	0.33	0.33	ppb	U
75-35-4	1,1-Dichloroethene	0.40	0.40	ppb	U
75-09-2	Methylene Chloride	0.28	0.28	ppb	U
156-60-5	t-1,2-Dichloroethene	0.19	0.19	ppb	U
75-34-3	1,1-Dichloroethane	0.19	0.19	ppb	U
590-20-7	2,2-Dichloropropane	0.30	0.30	ppb	U
156-59-2	c-1,2-Dichloroethene	0.21	0.21	ppb	U
67-66-3	Chloroform	0.20	0.20	ppb	U
74-97-5	Bromochloromethane	0.21	0.21	ppb	U
71-55-6	1,1,1-Trichloroethane	0.18	0.18	ppb	U
563-58-6	1,1-Dichloropropene	0.55	0.55	ppb	U
56-23-5	Carbon Tetrachloride	0.26	0.26	ppb	U
107-06-2	1,2-Dichloroethane	0.28	0.28	ppb	U
71-43-2	Benzene	0.18	0.18	ppb	U
79-01-6	Trichloroethene	0.25	0.25	ppb	U
78-87-5	1,2-Dichloropropane	0.18	0.18	ppb	U
75-27-4	Bromodichloromethane	0.23	0.23	ppb	U
74-95-3	Dibromomethane	0.39	0.39	ppb	U
10061-01-5	c-1,3-Dichloropropene	0.23	0.23	ppb	U
108-88-3	Toluene	0.25	1.40	ppb	
10061-02-6	t-1,3-Dichloropropene	0.28	0.28	ppb	U
79-00-5	1,1,2-Trichloroethane	0.24	0.24	ppb	U
142-28-9	1,3-Dichloropropane	0.48	0.48	ppb	U
127-18-4	Tetrachloroethene	0.23	0.23	ppb	U
124-48-1	Dibromochloromethane	0.30	0.30	ppb	U
106-93-4	1,2-Dibromoethane	0.30	0.30	ppb	U
108-90-7	Chlorobenzene	0.16	0.16	ppb	U
630-20-6	1,1,1,2-Tetrachloroethane	0.21	0.21	ppb	U
100-41-4	Ethylbenzene	0.14	0.14	ppb	U
108-38-3	m,p-xylene	0.31	0.31	ppb	U

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06/07/2001

Volatiles by EPA 8021B

Sample: L2619-4...continue

Client Sample ID: SS-4

Matrix: Soil

Type: Grab

Collected: 05/14/2001 09:55

% Solid: 79.2%

Remarks: See Case Narrative

Analyzed Date: 05/17/2001

Cas No	Analyte	MDL	Concentration	Units	Q
95-47-6	o-xylene	0.23	0.23	ppb	U
100-42-5	Styrene	0.23	0.23	ppb	U
98-82-8	Isopropylbenzene	0.13	0.13	ppb	U
75-25-2	Bromoform	0.30	0.30	ppb	U
79-34-5	1,1,2,2-Tetrachloroethane	0.25	0.25	ppb	U
96-18-4	1,2,3-Trichloropropane	0.64	0.64	ppb	U
103-65-1	n-Propylbenzene	0.18	0.18	ppb	U
108-86-1	Bromobenzene	0.21	0.21	ppb	U
108-67-8	1,3,5-Trimethylbenzene	0.13	0.13	ppb	U
95-49-8	2-Chlorotoluene	0.10	0.10	ppb	U
106-43-4	4-Chlorotoluene	0.18	0.18	ppb	U
98-06-6	tert-Butylbenzene	0.19	0.19	ppb	U
95-63-6	1,2,4-Trimethylbenzene	0.25	0.25	ppb	U
135-98-8	sec-Butylbenzene	0.15	0.15	ppb	U
99-87-6	4-Isopropyltoluene	0.23	0.23	ppb	U
541-73-1	1,3-Dichlorobenzene	0.23	0.23	ppb	U
106-46-7	1,4-Dichlorobenzene	0.28	0.28	ppb	U
95-50-1	1,2-Dichlorobenzene	0.16	0.16	ppb	U
104-51-8	n-Butylbenzene	0.18	0.18	ppb	U
96-12-8	1,2-Dibromo-3-chloropropane	0.84	0.84	ppb	U
120-82-1	1,2,4-Trichlorobenzene	0.48	0.48	ppb	U
87-68-3	Hexachlorobutadiene	0.18	0.18	ppb	U
91-20-3	Naphthalene	0.91	0.91	ppb	U
87-61-6	1,2,3-Trichlorobenzene	0.47	0.47	ppb	U

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06/07/2001

Volatiles by EPA 8021B

Sample: L2619-5

Client Sample ID: SS-5

Matrix: Soil

Type: Grab

Collected: 05/14/2001 10:05

% Solid: 90.9%

Remarks: See Case Narrative

Analyzed Date: 05/17/2001

Cas No	Analyte	MDL	Concentration	Units	Q
75-71-8	Dichlorodifluoromethane	0.92	0.92	ppb	U
74-87-3	Chloromethane	0.79	0.79	ppb	U
75-01-4	Vinyl Chloride	0.44	0.44	ppb	U
74-83-9	Bromomethane	0.37	0.37	ppb	U
75-00-3	Chloroethane	0.73	0.73	ppb	U
75-69-4	Trichlorofluoromethane	0.57	0.57	ppb	U
75-35-4	1,1-Dichloroethene	0.70	0.70	ppb	U
75-09-2	Methylene Chloride	0.48	0.48	ppb	U
156-60-5	t-1,2-Dichloroethene	0.33	0.33	ppb	U
75-34-3	1,1-Dichloroethane	0.33	0.33	ppb	U
590-20-7	2,2-Dichloropropane	0.53	0.53	ppb	U
156-59-2	c-1,2-Dichloroethene	0.37	0.37	ppb	U
67-66-3	Chloroform	0.35	0.35	ppb	U
74-97-5	Bromochloromethane	0.37	0.37	ppb	U
71-55-6	1,1,1-Trichloroethane	0.31	0.31	ppb	U
563-58-6	1,1-Dichloropropene	0.97	0.97	ppb	U
56-23-5	Carbon Tetrachloride	0.46	0.46	ppb	U
107-06-2	1,2-Dichloroethane	0.48	0.48	ppb	U
71-43-2	Benzene	0.31	0.31	ppb	U
79-01-6	Trichloroethene	0.44	0.44	ppb	U
78-87-5	1,2-Dichloropropane	0.31	0.31	ppb	U
75-27-4	Bromodichloromethane	0.40	0.40	ppb	U
74-95-3	Dibromomethane	0.68	0.68	ppb	U
10061-01-5	c-1,3-Dichloropropene	0.40	0.40	ppb	U
108-88-3	Toluene	0.44	0.44	ppb	U
10061-02-6	t-1,3-Dichloropropene	0.48	0.48	ppb	U
79-00-5	1,1,2-Trichloroethane	0.42	0.42	ppb	U
142-28-9	1,3-Dichloropropane	0.84	0.84	ppb	U
127-18-4	Tetrachloroethene	0.40	0.40	ppb	U
124-48-1	Dibromochloromethane	0.53	0.53	ppb	U
106-93-4	1,2-Dibromoethane	0.53	0.53	ppb	U
108-90-7	Chlorobenzene	0.29	0.29	ppb	U
630-20-6	1,1,1,2-Tetrachloroethane	0.37	0.37	ppb	U
100-41-4	Ethylbenzene	0.24	0.24	ppb	U
108-38-3	m,p-xylene	0.55	0.55	ppb	U

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Sample: L2619-5...continue
Client Sample ID: SS-5
Matrix: Soil
Remarks: See Case Narrative
Analyzed Date: 05/17/2001

Type: Grab

Collected: 05/14/2001 10:05
% Solid: 90.9%

Cas No	Analyte	MDL	Concentration	Units	Q
95-47-6	o-xylene	0.40	0.40	ppb	U
100-42-5	Styrene	0.40	0.40	ppb	U
98-82-8	Isopropylbenzene	0.22	0.22	ppb	U
75-25-2	Bromoform	0.53	0.53	ppb	U
79-34-5	1,1,2,2-Tetrachloroethane	0.44	0.44	ppb	U
96-18-4	1,2,3-Trichloropropane	1.12	1.12	ppb	U
103-65-1	n-Propylbenzene	0.31	0.31	ppb	U
108-86-1	Bromobenzene	0.37	0.37	ppb	U
108-67-8	1,3,5-Trimethylbenzene	0.22	0.22	ppb	U
95-49-8	2-Chlorotoluene	0.18	0.18	ppb	U
106-43-4	4-Chlorotoluene	0.31	0.31	ppb	U
98-06-6	tert-Butylbenzene	0.33	0.33	ppb	U
95-63-6	1,2,4-Trimethylbenzene	0.44	0.44	ppb	U
135-98-8	sec-Butylbenzene	0.26	0.26	ppb	U
99-87-6	4-Isopropyltoluene	0.40	0.40	ppb	U
541-73-1	1,3-Dichlorobenzene	0.40	0.40	ppb	U
106-46-7	1,4-Dichlorobenzene	0.48	0.48	ppb	U
95-50-1	1,2-Dichlorobenzene	0.29	0.29	ppb	U
104-51-8	n-Butylbenzene	0.31	0.31	ppb	U
96-12-8	1,2-Dibromo-3-chloropropane	1.47	1.47	ppb	U
120-82-1	1,2,4-Trichlorobenzene	0.84	0.84	ppb	U
87-68-3	Hexachlorobutadiene	0.31	0.31	ppb	U
91-20-3	Naphthalene	1.58	1.58	ppb	U
87-61-6	1,2,3-Trichlorobenzene	0.81	0.81	ppb	U

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Volatiles by EPA 8021B

Sample: L2619-6

Client Sample ID: SS-6

Matrix: Soil

Type: Grab

Collected: 05/14/2001 10:15

% Solid: 80%

Remarks: See Case Narrative

Analyzed Date: 05/18/2001

Cas No	Analyte	MDL	Concentration	Units	Q
75-71-8	Dichlorodifluoromethane	0.52	0.52	ppb	U
74-87-3	Chloromethane	0.45	0.45	ppb	U
75-01-4	Vinyl Chloride	0.25	0.25	ppb	U
74-83-9	Bromomethane	0.21	0.21	ppb	U
75-00-3	Chloroethane	0.41	0.41	ppb	U
75-69-4	Trichlorofluoromethane	0.32	0.32	ppb	U
75-35-4	1,1-Dichloroethene	0.40	0.40	ppb	U
75-09-2	Methylene Chloride	0.28	0.28	ppb	U
156-60-5	t-1,2-Dichloroethene	0.19	0.19	ppb	U
75-34-3	1,1-Dichloroethane	0.19	0.19	ppb	U
590-20-7	2,2-Dichloropropane	0.30	0.30	ppb	U
156-59-2	c-1,2-Dichloroethene	0.21	0.21	ppb	U
67-66-3	Chloroform	0.20	0.20	ppb	U
74-97-5	Bromochloromethane	0.21	0.21	ppb	U
71-55-6	1,1,1-Trichloroethane	0.17	0.17	ppb	U
563-58-6	1,1-Dichloropropene	0.55	0.55	ppb	U
56-23-5	Carbon Tetrachloride	0.26	0.26	ppb	U
107-06-2	1,2-Dichloroethane	0.28	0.28	ppb	U
71-43-2	Benzene	0.17	0.17	ppb	U
79-01-6	Trichloroethene	0.25	0.25	ppb	U
78-87-5	1,2-Dichloropropane	0.17	0.17	ppb	U
75-27-4	Bromodichloromethane	0.22	0.22	ppb	U
74-95-3	Dibromomethane	0.39	0.39	ppb	U
10061-01-5	c-1,3-Dichloropropene	0.22	0.22	ppb	U
108-88-3	Toluene	0.25	**0.76**	ppb	
10061-02-6	t-1,3-Dichloropropene	0.28	0.28	ppb	U
79-00-5	1,1,2-Trichloroethane	0.24	0.24	ppb	U
142-28-9	1,3-Dichloropropane	0.47	0.47	ppb	U
127-18-4	Tetrachloroethene	0.22	0.22	ppb	U
124-48-1	Dibromochloromethane	0.30	0.30	ppb	U
106-93-4	1,2-Dibromoethane	0.30	0.30	ppb	U
108-90-7	Chlorobenzene	0.16	0.16	ppb	U
630-20-6	1,1,1,2-Tetrachloroethane	0.21	0.21	ppb	U
100-41-4	Ethylbenzene	0.14	0.14	ppb	U
108-38-3	m,p-xylene	0.31	0.31	ppb	U

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Volatiles by EPA 8021B

Sample: L2619-6...continue

Client Sample ID: SS-6
Matrix: Soil
Type: Grab
Collected: 05/14/2001 10:15
% Solid: 80%
Remarks: See Case Narrative
Analyzed Date: 05/18/2001

Cas No	Analyte	MDL	Concentration	Units	Q
95-47-6	o-xylene	0.22	0.22	ppb	U
100-42-5	Styrene	0.22	0.22	ppb	U
98-82-8	Isopropylbenzene	0.13	0.13	ppb	U
75-25-2	Bromoform	0.30	0.30	ppb	U
79-34-5	1,1,2,2-Tetrachloroethane	0.25	0.25	ppb	U
96-18-4	1,2,3-Trichloropropane	0.64	0.64	ppb	U
103-65-1	n-Propylbenzene	0.17	**0.92**	ppb	
108-86-1	Bromobenzene	0.21	0.21	ppb	U
108-67-8	1,3,5-Trimethylbenzene	0.13	**0.76**	ppb	
95-49-8	2-Chlorotoluene	0.10	0.10	ppb	U
106-43-4	4-Chlorotoluene	0.17	0.17	ppb	U
98-06-6	tert-Butylbenzene	0.19	0.19	ppb	U
95-63-6	1,2,4-Trimethylbenzene	0.25	**1.40**	ppb	
135-98-8	sec-Butylbenzene	0.15	0.15	ppb	U
99-87-6	4-Isopropyltoluene	0.22	0.22	ppb	U
541-73-1	1,3-Dichlorobenzene	0.22	0.22	ppb	U
106-46-7	1,4-Dichlorobenzene	0.28	0.28	ppb	U
95-50-1	1,2-Dichlorobenzene	0.16	0.16	ppb	U
104-51-8	n-Butylbenzene	0.17	**1.10**	ppb	
96-12-8	1,2-Dibromo-3-chloropropane	0.84	0.84	ppb	U
120-82-1	1,2,4-Trichlorobenzene	0.47	0.47	ppb	U
87-68-3	Hexachlorobutadiene	0.17	0.17	ppb	U
91-20-3	Naphthalene	0.90	0.90	ppb	U
87-61-6	1,2,3-Trichlorobenzene	0.46	0.46	ppb	U

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06/07/2001

Volatiles by EPA 8021B

Sample: L2619-7

Client Sample ID: SS-7

Matrix: Soil

Type: Grab

Collected: 05/14/2001 10:30

% Solid: 93.6%

Remarks: See Case Narrative

Analyzed Date: 05/17/2001

Cas No	Analyte	MDL	Concentration	Units	Q
75-71-8	Dichlorodifluoromethane	0.45	0.45	ppb	U
74-87-3	Chloromethane	0.39	0.39	ppb	U
75-01-4	Vinyl Chloride	0.21	0.21	ppb	U
74-83-9	Bromomethane	0.18	0.18	ppb	U
75-00-3	Chloroethane	0.35	0.35	ppb	U
75-69-4	Trichlorofluoromethane	0.28	0.28	ppb	U
75-35-4	1,1-Dichloroethene	0.34	0.34	ppb	U
75-09-2	Methylene Chloride	0.24	1.30	ppb	
156-60-5	t-1,2-Dichloroethene	0.16	0.16	ppb	U
75-34-3	1,1-Dichloroethane	0.16	0.16	ppb	U
590-20-7	2,2-Dichloropropane	0.26	0.26	ppb	U
156-59-2	c-1,2-Dichloroethene	0.18	0.18	ppb	U
67-66-3	Chloroform	0.17	0.17	ppb	U
74-97-5	Bromochloromethane	0.18	0.18	ppb	U
71-55-6	1,1,1-Trichloroethane	0.15	0.15	ppb	U
563-58-6	1,1-Dichloropropene	0.47	0.47	ppb	U
56-23-5	Carbon Tetrachloride	0.22	0.22	ppb	U
107-06-2	1,2-Dichloroethane	0.24	0.24	ppb	U
71-43-2	Benzene	0.15	0.15	ppb	U
79-01-6	Trichloroethene	0.21	0.21	ppb	U
78-87-5	1,2-Dichloropropane	0.15	0.15	ppb	U
75-27-4	Bromodichloromethane	0.19	0.19	ppb	U
74-95-3	Dibromomethane	0.33	0.33	ppb	U
10061-01-5	c-1,3-Dichloropropene	0.19	0.19	ppb	U
108-88-3	Toluene	0.21	1.50	ppb	
10061-02-6	t-1,3-Dichloropropene	0.24	0.24	ppb	U
79-00-5	1,1,2-Trichloroethane	0.20	0.20	ppb	U
142-28-9	1,3-Dichloropropane	0.41	0.41	ppb	U
127-18-4	Tetrachloroethene	0.19	0.19	ppb	U
124-48-1	Dibromochloromethane	0.26	0.26	ppb	U
106-93-4	1,2-Dibromoethane	0.26	0.26	ppb	U
108-90-7	Chlorobenzene	0.14	0.14	ppb	U
630-20-6	1,1,1,2-Tetrachloroethane	0.18	0.18	ppb	U
100-41-4	Ethylbenzene	0.12	0.12	ppb	U
108-38-3	m,p-xylene	0.27	0.27	ppb	U

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Volatiles by EPA 8021B

Sample: L2619-7...continue
Client Sample ID: SS-7
Matrix: Soil
Remarks: See Case Narrative
Analyzed Date: 05/17/2001

Type: Grab

Collected: 05/14/2001 10:30
% Solid: 93.6%

Cas No	Analyte	MDL	Concentration	Units	Q
95-47-6	o-xylene	0.19	0.19	ppb	U
100-42-5	Styrene	0.19	0.19	ppb	U
98-82-8	Isopropylbenzene	0.11	0.11	ppb	U
75-25-2	Bromoform	0.26	0.26	ppb	U
79-34-5	1,1,2,2-Tetrachloroethane	0.21	0.21	ppb	U
96-18-4	1,2,3-Trichloropropane	0.55	0.55	ppb	U
103-65-1	n-Propylbenzene	0.15	0.15	ppb	U
108-86-1	Bromobenzene	0.18	0.18	ppb	U
108-67-8	1,3,5-Trimethylbenzene	0.11	0.11	ppb	U
95-49-8	2-Chlorotoluene	0.086	0.086	ppb	U
106-43-4	4-Chlorotoluene	0.15	0.15	ppb	U
98-06-6	tert-Butylbenzene	0.16	0.16	ppb	U
95-63-6	1,2,4-Trimethylbenzene	0.21	0.21	ppb	U
135-98-8	sec-Butylbenzene	0.13	0.13	ppb	U
99-87-6	4-Isopropyltoluene	0.19	0.19	ppb	U
541-73-1	1,3-Dichlorobenzene	0.19	0.19	ppb	U
106-46-7	1,4-Dichlorobenzene	0.24	0.24	ppb	U
95-50-1	1,2-Dichlorobenzene	0.14	1.90	ppb	
104-51-8	n-Butylbenzene	0.15	0.15	ppb	U
96-12-8	1,2-Dibromo-3-chloropropane	0.72	0.72	ppb	U
120-82-1	1,2,4-Trichlorobenzene	0.41	0.41	ppb	U
87-68-3	Hexachlorobutadiene	0.15	0.15	ppb	U
91-20-3	Naphthalene	0.77	0.77	ppb	U
87-61-6	1,2,3-Trichlorobenzene	0.40	0.40	ppb	U

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Volatiles by EPA 8021B

Sample: L2619-8
Client Sample ID: SS-11
Matrix: Soil
Remarks: See Case Narrative
Analyzed Date: 05/17/2001

Type: Grab

Collected: 05/14/2001 10:45
% Solid: 92.4%

Cas No	Analyte	MDL	Concentration	Units	Q
75-71-8	Dichlorodifluoromethane	0.45	0.45	ppb	U
74-87-3	Chloromethane	0.39	0.39	ppb	U
75-01-4	Vinyl Chloride	0.22	0.22	ppb	U
74-83-9	Bromomethane	0.18	0.18	ppb	U
75-00-3	Chloroethane	0.36	0.36	ppb	U
75-69-4	Trichlorofluoromethane	0.28	0.28	ppb	U
75-35-4	1,1-Dichloroethene	0.35	0.35	ppb	U
75-09-2	Methylene Chloride	0.24	0.24	ppb	U
156-60-5	t-1,2-Dichloroethene	0.16	0.16	ppb	U
75-34-3	1,1-Dichloroethane	0.16	0.16	ppb	U
590-20-7	2,2-Dichloropropane	0.26	0.26	ppb	U
156-59-2	c-1,2-Dichloroethene	0.18	0.18	ppb	U
67-66-3	Chloroform	0.17	0.17	ppb	U
74-97-5	Bromochloromethane	0.18	0.18	ppb	U
71-55-6	1,1,1-Trichloroethane	0.15	0.15	ppb	U
563-58-6	1,1-Dichloropropene	0.48	0.48	ppb	U
56-23-5	Carbon Tetrachloride	0.23	0.23	ppb	U
107-06-2	1,2-Dichloroethane	0.24	0.24	ppb	U
71-43-2	Benzene	0.15	0.15	ppb	U
79-01-6	Trichloroethene	0.22	0.22	ppb	U
78-87-5	1,2-Dichloropropane	0.15	0.15	ppb	U
75-27-4	Bromodichloromethane	0.19	0.19	ppb	U
74-95-3	Dibromomethane	0.33	0.33	ppb	U
10061-01-5	c-1,3-Dichloropropene	0.19	0.19	ppb	U
108-88-3	Toluene	0.22	0.22	ppb	U
10061-02-6	t-1,3-Dichloropropene	0.24	0.24	ppb	U
79-00-5	1,1,2-Trichloroethane	0.21	0.21	ppb	U
142-28-9	1,3-Dichloropropane	0.41	0.41	ppb	U
127-18-4	Tetrachloroethene	0.19	0.19	ppb	U
124-48-1	Dibromochloromethane	0.26	0.26	ppb	U
106-93-4	1,2-Dibromoethane	0.26	0.26	ppb	U
108-90-7	Chlorobenzene	0.14	0.14	ppb	U
630-20-6	1,1,1,2-Tetrachloroethane	0.18	0.18	ppb	U
100-41-4	Ethylbenzene	0.12	0.12	ppb	U
108-38-3	m,p-xylene	0.27	0.27	ppb	U

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Volatiles by EPA 8021B

Sample: L2619-8...continue
Client Sample ID: SS-11
Matrix: Soil
Remarks: See Case Narrative
Analyzed Date: 05/17/2001

Type: Grab

Collected: 05/14/2001 10:45
% Solid: 92.4%

Cas No	Analyte	MDL	Concentration	Units	Q
95-47-6	o-xylene	0.19	0.19	ppb	U
100-42-5	Styrene	0.19	0.19	ppb	U
98-82-8	Isopropylbenzene	0.11	0.11	ppb	U
75-25-2	Bromoform	0.26	0.26	ppb	U
79-34-5	1,1,2,2-Tetrachloroethane	0.22	0.22	ppb	U
96-18-4	1,2,3-Trichloropropane	0.55	0.55	ppb	U
103-65-1	n-Propylbenzene	0.15	0.15	ppb	U
108-86-1	Bromobenzene	0.18	0.18	ppb	U
108-67-8	1,3,5-Trimethylbenzene	0.11	0.11	ppb	U
95-49-8	2-Chlorotoluene	0.086	0.086	ppb	U
106-43-4	4-Chlorotoluene	0.15	0.15	ppb	U
98-06-6	tert-Butylbenzene	0.16	0.16	ppb	U
95-63-6	1,2,4-Trimethylbenzene	0.22	0.22	ppb	U
135-98-8	sec-Butylbenzene	0.13	0.13	ppb	U
99-87-6	4-Isopropyltoluene	0.19	0.19	ppb	U
541-73-1	1,3-Dichlorobenzene	0.19	0.19	ppb	U
106-46-7	1,4-Dichlorobenzene	0.24	0.24	ppb	U
95-50-1	1,2-Dichlorobenzene	0.14	0.14	ppb	U
104-51-8	n-Butylbenzene	0.15	0.15	ppb	U
96-12-8	1,2-Dibromo-3-chloropropane	0.72	0.72	ppb	U
120-82-1	1,2,4-Trichlorobenzene	0.41	0.41	ppb	U
87-68-3	Hexachlorobutadiene	0.15	0.15	ppb	U
91-20-3	Naphthalene	0.78	0.78	ppb	U
87-61-6	1,2,3-Trichlorobenzene	0.40	0.40	ppb	U

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Volatiles by EPA 8021B

Sample: L2619-9
Client Sample ID: SS-9
Matrix: Soil
Remarks: See Case Narrative
Analyzed Date: 05/17/2001

Type: Grab

Collected: 05/14/2001 10:55
% Solid: 89.1%

Cas No	Analyte	MDL	Concentration	Units	Q
75-71-8	Dichlorodifluoromethane	0.47	0.47	ppb	U
74-87-3	Chloromethane	0.40	0.40	ppb	U
75-01-4	Vinyl Chloride	0.22	0.22	ppb	U
74-83-9	Bromomethane	0.19	0.19	ppb	U
75-00-3	Chloroethane	0.37	0.37	ppb	U
75-69-4	Trichlorofluoromethane	0.29	0.29	ppb	U
75-35-4	1,1-Dichloroethene	0.36	0.36	ppb	U
75-09-2	Methylene Chloride	0.25	2.80	ppb	B
156-60-5	t-1,2-Dichloroethene	0.17	0.17	ppb	U
75-34-3	1,1-Dichloroethane	0.17	0.17	ppb	U
590-20-7	2,2-Dichloropropane	0.27	0.27	ppb	U
156-59-2	c-1,2-Dichloroethene	0.19	0.19	ppb	U
67-66-3	Chloroform	0.18	0.18	ppb	U
74-97-5	Bromochloromethane	0.19	0.19	ppb	U
71-55-6	1,1,1-Trichloroethane	0.16	0.16	ppb	U
563-58-6	1,1-Dichloropropene	0.49	0.49	ppb	U
56-23-5	Carbon Tetrachloride	0.24	0.24	ppb	U
107-06-2	1,2-Dichloroethane	0.25	0.25	ppb	U
71-43-2	Benzene	0.16	0.16	ppb	U
79-01-6	Trichloroethene	0.22	0.22	ppb	U
78-87-5	1,2-Dichloropropane	0.16	0.16	ppb	U
75-27-4	Bromodichloromethane	0.20	0.20	ppb	U
74-95-3	Dibromomethane	0.35	0.35	ppb	U
10061-01-5	c-1,3-Dichloropropene	0.20	0.20	ppb	U
108-88-3	Toluene	0.22	0.77	ppb	
10061-02-6	t-1,3-Dichloropropene	0.25	0.25	ppb	U
79-00-5	1,1,2-Trichloroethane	0.21	0.21	ppb	U
142-28-9	1,3-Dichloropropane	0.43	0.43	ppb	U
127-18-4	Tetrachloroethene	0.20	0.20	ppb	U
124-48-1	Dibromochloromethane	0.27	0.27	ppb	U
106-93-4	1,2-Dibromoethane	0.27	0.27	ppb	U
108-90-7	Chlorobenzene	0.15	0.15	ppb	U
630-20-6	1,1,1,2-Tetrachloroethane	0.19	0.19	ppb	U
100-41-4	Ethylbenzene	0.12	0.12	ppb	U
108-38-3	m,p-xylene	0.28	0.28	ppb	U

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Volatiles by EPA 8021B

Sample: L2619-9...continue

Client Sample ID: SS-9
Matrix: Soil
Type: Grab
Collected: 05/14/2001 10:55
% Solid: 89.1%
Remarks: See Case Narrative
Analyzed Date: 05/17/2001

Cas No	Analyte	MDL	Concentration	Units	Q
95-47-6	o-xylene	0.20	0.20	ppb	U
100-42-5	Styrene	0.20	0.20	ppb	U
98-82-8	Isopropylbenzene	0.11	0.11	ppb	U
75-25-2	Bromoform	0.27	0.27	ppb	U
79-34-5	1,1,2,2-Tetrachloroethane	0.22	0.22	ppb	U
96-18-4	1,2,3-Trichloropropane	0.57	0.57	ppb	U
103-65-1	n-Propylbenzene	0.16	0.16	ppb	U
108-86-1	Bromobenzene	0.19	0.19	ppb	U
108-67-8	1,3,5-Trimethylbenzene	0.11	0.11	ppb	U
95-49-8	2-Chlorotoluene	0.090	0.090	ppb	U
106-43-4	4-Chlorotoluene	0.16	0.16	ppb	U
98-06-6	tert-Butylbenzene	0.17	0.17	ppb	U
95-63-6	1,2,4-Trimethylbenzene	0.22	1.40	ppb	
135-98-8	sec-Butylbenzene	0.13	0.13	ppb	U
99-87-6	4-Isopropyltoluene	0.20	0.20	ppb	U
541-73-1	1,3-Dichlorobenzene	0.20	0.20	ppb	U
106-46-7	1,4-Dichlorobenzene	0.25	0.25	ppb	U
95-50-1	1,2-Dichlorobenzene	0.15	0.15	ppb	U
104-51-8	n-Butylbenzene	0.16	0.16	ppb	U
96-12-8	1,2-Dibromo-3-chloropropane	0.75	0.75	ppb	U
120-82-1	1,2,4-Trichlorobenzene	0.43	0.43	ppb	U
87-68-3	Hexachlorobutadiene	0.16	0.16	ppb	U
91-20-3	Naphthalene	0.81	0.81	ppb	U
87-61-6	1,2,3-Trichlorobenzene	0.41	0.41	ppb	U

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Volatiles by EPA 8021B

Sample: L2619-10

Client Sample ID: SS-10 Collected: 05/14/2001 11:05

Matrix: Soil Type: Grab % Solid: 83.7%

Remarks: See Case Narrative

Analyzed Date: 05/17/2001

Cas No	Analyte	MDL	Concentration	Units	Q
75-71-8	Dichlorodifluoromethane	0.50	0.50	ppb	U
74-87-3	Chloromethane	0.43	0.43	ppb	U
75-01-4	Vinyl Chloride	0.24	0.24	ppb	U
74-83-9	Bromomethane	0.20	0.20	ppb	U
75-00-3	Chloroethane	0.39	0.39	ppb	U
75-69-4	Trichlorofluoromethane	0.31	0.31	ppb	U
75-35-4	1,1-Dichloroethene	0.38	0.38	ppb	U
75-09-2	Methylene Chloride	0.26	2.50	ppb	B
156-60-5	t-1,2-Dichloroethene	0.18	0.18	ppb	U
75-34-3	1,1-Dichloroethane	0.18	0.18	ppb	U
590-20-7	2,2-Dichloropropane	0.29	0.29	ppb	U
156-59-2	c-1,2-Dichloroethene	0.20	0.20	ppb	U
67-66-3	Chloroform	0.19	0.19	ppb	U
74-97-5	Bromochloromethane	0.20	0.20	ppb	U
71-55-6	1,1,1-Trichloroethane	0.17	0.17	ppb	U
563-58-6	1,1-Dichloropropene	0.52	0.52	ppb	U
56-23-5	Carbon Tetrachloride	0.25	0.25	ppb	U
107-06-2	1,2-Dichloroethane	0.26	0.26	ppb	U
71-43-2	Benzene	0.17	0.17	ppb	U
79-01-6	Trichloroethene	0.24	0.24	ppb	U
78-87-5	1,2-Dichloropropane	0.17	0.17	ppb	U
75-27-4	Bromodichloromethane	0.21	0.21	ppb	U
74-95-3	Dibromomethane	0.37	0.37	ppb	U
10061-01-5	c-1,3-Dichloropropene	0.21	0.21	ppb	U
108-88-3	Toluene	0.24	1.00	ppb	
10061-02-6	t-1,3-Dichloropropene	0.26	0.26	ppb	U
79-00-5	1,1,2-Trichloroethane	0.23	0.23	ppb	U
142-28-9	1,3-Dichloropropane	0.45	0.45	ppb	U
127-18-4	Tetrachloroethene	0.21	0.21	ppb	U
124-48-1	Dibromochloromethane	0.29	0.29	ppb	U
106-93-4	1,2-Dibromoethane	0.29	0.29	ppb	U
108-90-7	Chlorobenzene	0.15	0.15	ppb	U
630-20-6	1,1,1,2-Tetrachloroethane	0.20	0.20	ppb	U
100-41-4	Ethylbenzene	0.13	0.13	ppb	U
108-38-3	m,p-xylene	0.30	1.60	ppb	

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Volatiles by EPA 8021B

Sample: L2619-10...continue
Client Sample ID: SS-10
Matrix: Soil
Remarks: See Case Narrative
Analyzed Date: 05/17/2001

Type: Grab

Collected: 05/14/2001 11:05
% Solid: 83.7%

Cas No	Analyte	MDL	Concentration	Units	Q
95-47-6	o-xylene	0.21	0.21	ppb	U
100-42-5	Styrene	0.21	0.21	ppb	U
98-82-8	Isopropylbenzene	0.12	0.12	ppb	U
75-25-2	Bromoform	0.29	0.29	ppb	U
79-34-5	1,1,2,2-Tetrachloroethane	0.24	0.24	ppb	U
96-18-4	1,2,3-Trichloropropane	0.61	0.61	ppb	U
103-65-1	n-Propylbenzene	0.17	0.17	ppb	U
108-86-1	Bromobenzene	0.20	0.20	ppb	U
108-67-8	1,3,5-Trimethylbenzene	0.12	0.12	ppb	U
95-49-8	2-Chlorotoluene	0.095	0.095	ppb	U
106-43-4	4-Chlorotoluene	0.17	0.17	ppb	U
98-06-6	tert-Butylbenzene	0.18	0.18	ppb	U
95-63-6	1,2,4-Trimethylbenzene	0.24	1.50	ppb	
135-98-8	sec-Butylbenzene	0.14	0.14	ppb	U
99-87-6	4-Isopropyltoluene	0.21	0.21	ppb	U
541-73-1	1,3-Dichlorobenzene	0.21	0.21	ppb	U
106-46-7	1,4-Dichlorobenzene	0.26	0.26	ppb	U
95-50-1	1,2-Dichlorobenzene	0.15	0.15	ppb	U
104-51-8	n-Butylbenzene	0.17	0.17	ppb	U
96-12-8	1,2-Dibromo-3-chloropropane	0.80	0.80	ppb	U
120-82-1	1,2,4-Trichlorobenzene	0.45	0.45	ppb	U
87-68-3	Hexachlorobutadiene	0.17	0.17	ppb	U
91-20-3	Naphthalene	0.86	0.86	ppb	U
87-61-6	1,2,3-Trichlorobenzene	0.44	0.44	ppb	U

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Volatiles by EPA 8021B

Sample: L2619-11

Client Sample ID: SS-8

Matrix: Soil

Type: Grab

Collected: 05/14/2001 11:15

% Solid: 93.3%

Remarks: See Case Narrative

Analyzed Date: 05/18/2001

Cas No	Analyte	MDL	Concentration	Units	Q
75-71-8	Dichlorodifluoromethane	0.45	0.45	ppb	U
74-87-3	Chloromethane	0.39	0.39	ppb	U
75-01-4	Vinyl Chloride	0.21	0.21	ppb	U
74-83-9	Bromomethane	0.18	0.18	ppb	U
75-00-3	Chloroethane	0.35	0.35	ppb	U
75-69-4	Trichlorofluoromethane	0.28	0.28	ppb	U
75-35-4	1,1-Dichloroethene	0.34	0.34	ppb	U
75-09-2	Methylene Chloride	0.24	0.24	ppb	U
156-60-5	t-1,2-Dichloroethene	0.16	0.16	ppb	U
75-34-3	1,1-Dichloroethane	0.16	0.16	ppb	U
590-20-7	2,2-Dichloropropane	0.26	0.26	ppb	U
156-59-2	c-1,2-Dichloroethene	0.18	0.18	ppb	U
67-66-3	Chloroform	0.17	0.17	ppb	U
74-97-5	Bromochloromethane	0.18	0.18	ppb	U
71-55-6	1,1,1-Trichloroethane	0.15	0.15	ppb	U
563-58-6	1,1-Dichloropropene	0.47	0.47	ppb	U
56-23-5	Carbon Tetrachloride	0.22	0.22	ppb	U
107-06-2	1,2-Dichloroethane	0.24	0.24	ppb	U
71-43-2	Benzene	0.15	0.15	ppb	U
79-01-6	Trichloroethene	0.21	0.21	ppb	U
78-87-5	1,2-Dichloropropane	0.15	0.15	ppb	U
75-27-4	Bromodichloromethane	0.19	0.19	ppb	U
74-95-3	Dibromomethane	0.33	0.33	ppb	U
10061-01-5	c-1,3-Dichloropropene	0.19	0.19	ppb	U
108-88-3	Toluene	0.21	1.00	ppb	
10061-02-6	t-1,3-Dichloropropene	0.24	0.24	ppb	U
79-00-5	1,1,2-Trichloroethane	0.20	0.20	ppb	U
142-28-9	1,3-Dichloropropane	0.41	0.41	ppb	U
127-18-4	Tetrachloroethene	0.19	0.19	ppb	U
124-48-1	Dibromochloromethane	0.26	0.26	ppb	U
106-93-4	1,2-Dibromoethane	0.26	0.26	ppb	U
108-90-7	Chlorobenzene	0.14	0.14	ppb	U
630-20-6	1,1,1,2-Tetrachloroethane	0.18	0.18	ppb	U
100-41-4	Ethylbenzene	0.12	0.12	ppb	U
108-38-3	m,p-xylene	0.27	0.60	ppb	

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Sample: L2619-11...continue
Client Sample ID: SS-8
Matrix: Soil
Remarks: See Case Narrative
Analyzed Date: 05/18/2001

Type: Grab

Collected: 05/14/2001 11:15
% Solid: 93.3%

Cas No	Analyte	MDL	Concentration	Units	Q
95-47-6	o-xylene	0.19	0.19	ppb	U
100-42-5	Styrene	0.19	0.19	ppb	U
98-82-8	Isopropylbenzene	0.11	0.11	ppb	U
75-25-2	Bromoform	0.26	0.26	ppb	U
79-34-5	1,1,2,2-Tetrachloroethane	0.21	0.21	ppb	U
96-18-4	1,2,3-Trichloropropane	0.55	0.55	ppb	U
103-65-1	n-Propylbenzene	0.15	0.15	ppb	U
108-86-1	Bromobenzene	0.18	0.18	ppb	U
108-67-8	1,3,5-Trimethylbenzene	0.11	0.11	ppb	U
95-49-8	2-Chlorotoluene	0.086	0.086	ppb	U
106-43-4	4-Chlorotoluene	0.15	0.15	ppb	U
98-06-6	tert-Butylbenzene	0.16	0.16	ppb	U
95-63-6	1,2,4-Trimethylbenzene	0.21	0.21	ppb	U
135-98-8	sec-Butylbenzene	0.13	0.13	ppb	U
99-87-6	4-Isopropyltoluene	0.19	0.19	ppb	U
541-73-1	1,3-Dichlorobenzene	0.19	0.19	ppb	U
106-46-7	1,4-Dichlorobenzene	0.24	0.24	ppb	U
95-50-1	1,2-Dichlorobenzene	0.14	0.14	ppb	U
104-51-8	n-Butylbenzene	0.15	0.15	ppb	U
96-12-8	1,2-Dibromo-3-chloropropane	0.72	0.72	ppb	U
120-82-1	1,2,4-Trichlorobenzene	0.41	0.41	ppb	U
87-68-3	Hexachlorobutadiene	0.15	0.15	ppb	U
91-20-3	Naphthalene	0.77	0.77	ppb	U
87-61-6	1,2,3-Trichlorobenzene	0.40	0.40	ppb	U

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Volatiles by EPA 8021B

Sample: L2619-12
Client Sample ID: SS-12
Matrix: Soil
Remarks: See Case Narrative
Analyzed Date: 05/17/2001

Type: Grab

Collected: 05/14/2001 11:35
% Solid: 94.8%

Cas No	Analyte	MDL	Concentration	Units	Q
75-71-8	Dichlorodifluoromethane	0.44	0.44	ppb	U
74-87-3	Chloromethane	0.38	0.38	ppb	U
75-01-4	Vinyl Chloride	0.21	0.21	ppb	U
74-83-9	Bromomethane	0.18	0.18	ppb	U
75-00-3	Chloroethane	0.35	0.35	ppb	U
75-69-4	Trichlorofluoromethane	0.27	0.27	ppb	U
75-35-4	1,1-Dichloroethene	0.34	0.34	ppb	U
75-09-2	Methylene Chloride	0.23	0.23	ppb	U
156-60-5	t-1,2-Dichloroethene	0.16	0.16	ppb	U
75-34-3	1,1-Dichloroethane	0.16	0.16	ppb	U
590-20-7	2,2-Dichloropropane	0.25	0.25	ppb	U
156-59-2	c-1,2-Dichloroethene	0.18	0.18	ppb	U
67-66-3	Chloroform	0.17	0.17	ppb	U
74-97-5	Bromochloromethane	0.18	0.18	ppb	U
71-55-6	1,1,1-Trichloroethane	0.15	0.15	ppb	U
563-58-6	1,1-Dichloropropene	0.46	0.46	ppb	U
56-23-5	Carbon Tetrachloride	0.22	0.22	ppb	U
107-06-2	1,2-Dichloroethane	0.23	0.23	ppb	U
71-43-2	Benzene	0.15	0.15	ppb	U
79-01-6	Trichloroethene	0.21	0.21	ppb	U
78-87-5	1,2-Dichloropropane	0.15	0.15	ppb	U
75-27-4	Bromodichloromethane	0.19	0.19	ppb	U
74-95-3	Dibromomethane	0.33	0.33	ppb	U
10061-01-5	c-1,3-Dichloropropene	0.19	0.19	ppb	U
108-88-3	Toluene	0.21	0.69	ppb	
10061-02-6	t-1,3-Dichloropropene	0.23	0.23	ppb	U
79-00-5	1,1,2-Trichloroethane	0.20	0.20	ppb	U
142-28-9	1,3-Dichloropropane	0.40	0.40	ppb	U
127-18-4	Tetrachloroethene	0.19	0.19	ppb	U
124-48-1	Dibromochloromethane	0.25	0.25	ppb	U
106-93-4	1,2-Dibromoethane	0.25	0.25	ppb	U
108-90-7	Chlorobenzene	0.14	0.14	ppb	U
630-20-6	1,1,1,2-Tetrachloroethane	0.18	0.18	ppb	U
100-41-4	Ethylbenzene	0.12	0.12	ppb	U
108-38-3	m,p-xylene	0.26	0.56	ppb	

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06/07/2001

Volatiles by EPA 8021B

Sample: L2619-12...continue

Client Sample ID: SS-12

Matrix: Soil

Type: Grab

Collected: 05/14/2001 11:35

% Solid: 94.8%

Remarks: See Case Narrative

Analyzed Date: 05/17/2001

Cas No	Analyte	MDL	Concentration	Units	Q
95-47-6	o-xylene	0.19	0.19	ppb	U
100-42-5	Styrene	0.19	0.19	ppb	U
98-82-8	Isopropylbenzene	0.10	0.10	ppb	U
75-25-2	Bromoform	0.25	0.25	ppb	U
79-34-5	1,1,2,2-Tetrachloroethane	0.21	0.21	ppb	U
96-18-4	1,2,3-Trichloropropane	0.54	0.54	ppb	U
103-65-1	n-Propylbenzene	0.15	0.15	ppb	U
108-86-1	Bromobenzene	0.18	0.18	ppb	U
108-67-8	1,3,5-Trimethylbenzene	0.10	0.10	ppb	U
95-49-8	2-Chlorotoluene	0.084	0.084	ppb	U
106-43-4	4-Chlorotoluene	0.15	0.15	ppb	U
98-06-6	tert-Butylbenzene	0.16	0.16	ppb	U
95-63-6	1,2,4-Trimethylbenzene	0.21	0.21	ppb	U
135-98-8	sec-Butylbenzene	0.13	0.13	ppb	U
99-87-6	4-Isopropyltoluene	0.19	0.19	ppb	U
541-73-1	1,3-Dichlorobenzene	0.19	0.19	ppb	U
106-46-7	1,4-Dichlorobenzene	0.23	0.23	ppb	U
95-50-1	1,2-Dichlorobenzene	0.14	0.14	ppb	U
104-51-8	n-Butylbenzene	0.15	0.15	ppb	U
96-12-8	1,2-Dibromo-3-chloropropane	0.70	0.70	ppb	U
120-82-1	1,2,4-Trichlorobenzene	0.40	0.40	ppb	U
87-68-3	Hexachlorobutadiene	0.15	0.15	ppb	U
91-20-3	Naphthalene	0.76	0.76	ppb	U
87-61-6	1,2,3-Trichlorobenzene	0.39	0.39	ppb	U

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06/07/2001

Volatiles by EPA 8021B

Sample: L2619-13
Client Sample ID: SS-13
Matrix: Soil
Remarks: See Case Narrative
Analyzed Date: 05/18/2001

Type: Grab

Collected: 05/14/2001 12:20
% Solid: 94.5%

Cas No	Analyte	MDL	Concentration	Units	Q
75-71-8	Dichlorodifluoromethane	0.45	0.45	ppb	U
74-87-3	Chloromethane	0.38	0.38	ppb	U
75-01-4	Vinyl Chloride	0.21	0.21	ppb	U
74-83-9	Bromomethane	0.18	0.18	ppb	U
75-00-3	Chloroethane	0.35	0.35	ppb	U
75-69-4	Trichlorofluoromethane	0.28	0.28	ppb	U
75-35-4	1,1-Dichloroethene	0.34	0.34	ppb	U
75-09-2	Methylene Chloride	0.23	2.50	ppb	B
156-60-5	t-1,2-Dichloroethene	0.16	0.16	ppb	U
75-34-3	1,1-Dichloroethane	0.16	0.16	ppb	U
590-20-7	2,2-Dichloropropane	0.25	0.25	ppb	U
156-59-2	c-1,2-Dichloroethene	0.18	0.18	ppb	U
67-66-3	Chloroform	0.17	0.17	ppb	U
74-97-5	Bromochloromethane	0.18	0.18	ppb	U
71-55-6	1,1,1-Trichloroethane	0.15	0.15	ppb	U
563-58-6	1,1-Dichloropropene	0.47	0.47	ppb	U
56-23-5	Carbon Tetrachloride	0.22	0.22	ppb	U
107-06-2	1,2-Dichloroethane	0.23	0.23	ppb	U
71-43-2	Benzene	0.15	0.15	ppb	U
79-01-6	Trichloroethene	0.21	1.30	ppb	B
78-87-5	1,2-Dichloropropane	0.15	0.15	ppb	U
75-27-4	Bromodichloromethane	0.19	0.19	ppb	U
74-95-3	Dibromomethane	0.33	0.33	ppb	U
10061-01-5	c-1,3-Dichloropropene	0.19	0.19	ppb	U
108-88-3	Toluene	0.21	1.00	ppb	
10061-02-6	t-1,3-Dichloropropene	0.23	0.23	ppb	U
79-00-5	1,1,2-Trichloroethane	0.20	0.20	ppb	U
142-28-9	1,3-Dichloropropane	0.40	0.40	ppb	U
127-18-4	Tetrachloroethene	0.19	0.19	ppb	U
124-48-1	Dibromochloromethane	0.25	0.25	ppb	U
106-93-4	1,2-Dibromoethane	0.25	0.25	ppb	U
108-90-7	Chlorobenzene	0.14	0.14	ppb	U
630-20-6	1,1,1,2-Tetrachloroethane	0.18	0.18	ppb	U
100-41-4	Ethylbenzene	0.12	0.12	ppb	U
108-38-3	m,p-xylene	0.26	0.26	ppb	U

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Volatiles by EPA 8021B

Sample: L2619-13...continue

Client Sample ID: SS-13
Matrix: Soil
Type: Grab
Collected: 05/14/2001 12:20
% Solid: 94.5%
Remarks: See Case Narrative
Analyzed Date: 05/18/2001

Cas No	Analyte	MDL	Concentration	Units	Q
95-47-6	o-xylene	0.19	0.19	ppb	U
100-42-5	Styrene	0.19	0.19	ppb	U
98-82-8	Isopropylbenzene	0.11	0.11	ppb	U
75-25-2	Bromoform	0.25	0.25	ppb	U
79-34-5	1,1,2,2-Tetrachloroethane	0.21	0.21	ppb	U
96-18-4	1,2,3-Trichloropropane	0.54	0.54	ppb	U
103-65-1	n-Propylbenzene	0.15	0.15	ppb	U
108-86-1	Bromobenzene	0.18	0.18	ppb	U
108-67-8	1,3,5-Trimethylbenzene	0.11	0.11	ppb	U
95-49-8	2-Chlorotoluene	0.085	0.085	ppb	U
106-43-4	4-Chlorotoluene	0.15	0.15	ppb	U
98-06-6	tert-Butylbenzene	0.16	0.16	ppb	U
95-63-6	1,2,4-Trimethylbenzene	0.21	0.21	ppb	U
135-98-8	sec-Butylbenzene	0.13	0.13	ppb	U
99-87-6	4-Isopropyltoluene	0.19	0.19	ppb	U
541-73-1	1,3-Dichlorobenzene	0.19	0.19	ppb	U
106-46-7	1,4-Dichlorobenzene	0.23	0.23	ppb	U
95-50-1	1,2-Dichlorobenzene	0.14	0.14	ppb	U
104-51-8	n-Butylbenzene	0.15	0.15	ppb	U
96-12-8	1,2-Dibromo-3-chloropropane	0.71	0.71	ppb	U
120-82-1	1,2,4-Trichlorobenzene	0.40	0.40	ppb	U
87-68-3	Hexachlorobutadiene	0.15	0.15	ppb	U
91-20-3	Naphthalene	0.76	0.76	ppb	U
87-61-6	1,2,3-Trichlorobenzene	0.39	0.39	ppb	U

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Volatiles by EPA 8021B

Sample: L2619-14
Client Sample ID: SS-14
Matrix: Soil
Remarks: See Case Narrative
Analyzed Date: 05/18/2001

Type: Grab

Collected: 05/14/2001 11:55
% Solid: 86.3%

Cas No	Analyte	MDL	Concentration	Units	Q
75-71-8	Dichlorodifluoromethane	0.49	0.49	ppb	U
74-87-3	Chloromethane	0.42	0.42	ppb	U
75-01-4	Vinyl Chloride	0.23	0.23	ppb	U
74-83-9	Bromomethane	0.20	0.20	ppb	U
75-00-3	Chloroethane	0.38	0.38	ppb	U
75-69-4	Trichlorofluoromethane	0.30	0.30	ppb	U
75-35-4	1,1-Dichloroethene	0.37	0.37	ppb	U
75-09-2	Methylene Chloride	0.26	2.70	ppb	B
156-60-5	t-1,2-Dichloroethene	0.17	0.17	ppb	U
75-34-3	1,1-Dichloroethane	0.17	0.17	ppb	U
590-20-7	2,2-Dichloropropane	0.28	0.28	ppb	U
156-59-2	c-1,2-Dichloroethene	0.20	0.20	ppb	U
67-66-3	Chloroform	0.19	0.19	ppb	U
74-97-5	Bromochloromethane	0.20	0.20	ppb	U
71-55-6	1,1,1-Trichloroethane	0.16	0.16	ppb	U
563-58-6	1,1-Dichloropropene	0.51	0.51	ppb	U
56-23-5	Carbon Tetrachloride	0.24	0.24	ppb	U
107-06-2	1,2-Dichloroethane	0.26	0.26	ppb	U
71-43-2	Benzene	0.16	0.16	ppb	U
79-01-6	Trichloroethene	0.23	0.23	ppb	U
78-87-5	1,2-Dichloropropane	0.16	0.16	ppb	U
75-27-4	Bromodichloromethane	0.21	0.21	ppb	U
74-95-3	Dibromomethane	0.36	0.36	ppb	U
10061-01-5	c-1,3-Dichloropropene	0.21	0.21	ppb	U
108-88-3	Toluene	0.23	0.23	ppb	U
10061-02-6	t-1,3-Dichloropropene	0.26	0.26	ppb	U
79-00-5	1,1,2-Trichloroethane	0.22	0.22	ppb	U
142-28-9	1,3-Dichloropropane	0.44	0.44	ppb	U
127-18-4	Tetrachloroethene	0.21	0.21	ppb	U
124-48-1	Dibromochloromethane	0.28	0.28	ppb	U
106-93-4	1,2-Dibromoethane	0.28	0.28	ppb	U
108-90-7	Chlorobenzene	0.15	0.15	ppb	U
630-20-6	1,1,1,2-Tetrachloroethane	0.20	0.20	ppb	U
100-41-4	Ethylbenzene	0.13	0.13	ppb	U
108-38-3	m,p-xylene	0.29	0.29	ppb	U

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Volatiles by EPA 8021B

Sample: L2619-14...continue
Client Sample ID: SS-14
Matrix: Soil
Remarks: See Case Narrative
Analyzed Date: 05/18/2001

Type: Grab

Collected: 05/14/2001 11:55
% Solid: 86.3%

Cas No	Analyte	MDL	Concentration	Units	Q
95-47-6	o-xylene	0.21	0.21	ppb	U
100-42-5	Styrene	0.21	0.21	ppb	U
98-82-8	Isopropylbenzene	0.12	0.12	ppb	U
75-25-2	Bromoform	0.28	0.28	ppb	U
79-34-5	1,1,2,2-Tetrachloroethane	0.23	0.23	ppb	U
96-18-4	1,2,3-Trichloropropane	0.59	0.59	ppb	U
103-65-1	n-Propylbenzene	0.16	0.16	ppb	U
108-86-1	Bromobenzene	0.20	0.20	ppb	U
108-67-8	1,3,5-Trimethylbenzene	0.12	0.12	ppb	U
95-49-8	2-Chlorotoluene	0.093	0.093	ppb	U
106-43-4	4-Chlorotoluene	0.16	0.16	ppb	U
98-06-6	tert-Butylbenzene	0.17	0.17	ppb	U
95-63-6	1,2,4-Trimethylbenzene	0.23	0.23	ppb	U
135-98-8	sec-Butylbenzene	0.14	0.14	ppb	U
99-87-6	4-Isopropyltoluene	0.21	0.21	ppb	U
541-73-1	1,3-Dichlorobenzene	0.21	0.21	ppb	U
106-46-7	1,4-Dichlorobenzene	0.26	0.26	ppb	U
95-50-1	1,2-Dichlorobenzene	0.15	0.15	ppb	U
104-51-8	n-Butylbenzene	0.16	0.16	ppb	U
96-12-8	1,2-Dibromo-3-chloropropane	0.78	0.78	ppb	U
120-82-1	1,2,4-Trichlorobenzene	0.44	0.44	ppb	U
87-68-3	Hexachlorobutadiene	0.16	0.16	ppb	U
91-20-3	Naphthalene	0.84	0.84	ppb	U
87-61-6	1,2,3-Trichlorobenzene	0.43	0.43	ppb	U

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Volatiles by EPA 8021B

Sample: L2619-15
Client Sample ID: SS-15
Matrix: Soil
Remarks: See Case Narrative
Analyzed Date: 05/18/2001

Type: Grab

Collected: 05/14/2001 13:00
% Solid: 96.4%

Cas No	Analyte	MDL	Concentration	Units	Q
75-71-8	Dichlorodifluoromethane	0.44	0.44	ppb	U
74-87-3	Chloromethane	0.37	0.37	ppb	U
75-01-4	Vinyl Chloride	0.21	0.21	ppb	U
74-83-9	Bromomethane	0.18	0.18	ppb	U
75-00-3	Chloroethane	0.34	0.34	ppb	U
75-69-4	Trichlorofluoromethane	0.27	0.27	ppb	U
75-35-4	1,1-Dichloroethene	0.33	0.33	ppb	U
75-09-2	Methylene Chloride	0.23	1.30	ppb	B
156-60-5	t-1,2-Dichloroethene	0.16	0.16	ppb	U
75-34-3	1,1-Dichloroethane	0.16	0.16	ppb	U
590-20-7	2,2-Dichloropropane	0.25	0.25	ppb	U
156-59-2	c-1,2-Dichloroethene	0.18	0.18	ppb	U
67-66-3	Chloroform	0.17	0.17	ppb	U
74-97-5	Bromochloromethane	0.18	0.18	ppb	U
71-55-6	1,1,1-Trichloroethane	0.15	0.15	ppb	U
563-58-6	1,1-Dichloropropene	0.46	0.46	ppb	U
56-23-5	Carbon Tetrachloride	0.22	0.22	ppb	U
107-06-2	1,2-Dichloroethane	0.23	0.23	ppb	U
71-43-2	Benzene	0.15	0.15	ppb	U
79-01-6	Trichloroethene	0.21	1.10	ppb	B
78-87-5	1,2-Dichloropropane	0.15	0.15	ppb	U
75-27-4	Bromodichloromethane	0.19	0.19	ppb	U
74-95-3	Dibromomethane	0.32	0.32	ppb	U
10061-01-5	c-1,3-Dichloropropene	0.19	0.19	ppb	U
108-88-3	Toluene	0.21	0.79	ppb	
10061-02-6	t-1,3-Dichloropropene	0.23	0.23	ppb	U
79-00-5	1,1,2-Trichloroethane	0.20	0.20	ppb	U
142-28-9	1,3-Dichloropropane	0.40	0.40	ppb	U
127-18-4	Tetrachloroethene	0.19	0.19	ppb	U
124-48-1	Dibromochloromethane	0.25	0.25	ppb	U
106-93-4	1,2-Dibromoethane	0.25	0.25	ppb	U
108-90-7	Chlorobenzene	0.14	0.14	ppb	U
630-20-6	1,1,1,2-Tetrachloroethane	0.18	0.18	ppb	U
100-41-4	Ethylbenzene	0.11	0.11	ppb	U
108-38-3	m,p-xylene	0.26	1.20	ppb	

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Volatiles by EPA 8021B

Sample: L2619-15...continue
Client Sample ID: SS-15
Matrix: Soil
Remarks: See Case Narrative
Analyzed Date: 05/18/2001

Type: Grab

Collected: 05/14/2001 13:00
% Solid: 96.4%

Cas No	Analyte	MDL	Concentration	Units	Q
95-47-6	o-xylene	0.19	**0.65**	ppb	
100-42-5	Styrene	0.19	0.19	ppb	U
98-82-8	Isopropylbenzene	0.10	0.10	ppb	U
75-25-2	Bromoform	0.25	0.25	ppb	U
79-34-5	1,1,2,2-Tetrachloroethane	0.21	0.21	ppb	U
96-18-4	1,2,3-Trichloropropane	0.53	0.53	ppb	U
103-65-1	n-Propylbenzene	0.15	0.15	ppb	U
108-86-1	Bromobenzene	0.18	0.18	ppb	U
108-67-8	1,3,5-Trimethylbenzene	0.10	**1.90**	ppb	
95-49-8	2-Chlorotoluene	0.083	0.083	ppb	U
106-43-4	4-Chlorotoluene	0.15	0.15	ppb	U
98-06-6	tert-Butylbenzene	0.16	0.16	ppb	U
95-63-6	1,2,4-Trimethylbenzene	0.21	**2.50**	ppb	
135-98-8	sec-Butylbenzene	0.12	0.12	ppb	U
99-87-6	4-Isopropyltoluene	0.19	0.19	ppb	U
541-73-1	1,3-Dichlorobenzene	0.19	0.19	ppb	U
106-46-7	1,4-Dichlorobenzene	0.23	0.23	ppb	U
95-50-1	1,2-Dichlorobenzene	0.14	0.14	ppb	U
104-51-8	n-Butylbenzene	0.15	0.15	ppb	U
96-12-8	1,2-Dibromo-3-chloropropane	0.70	0.70	ppb	U
120-82-1	1,2,4-Trichlorobenzene	0.40	0.40	ppb	U
87-68-3	Hexachlorobutadiene	0.15	0.15	ppb	U
91-20-3	Naphthalene	0.75	0.75	ppb	U
87-61-6	1,2,3-Trichlorobenzene	0.38	0.38	ppb	U

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06/07/2001

Semivolatiles by EPA 8270B

Sample: L2619-1
Client Sample ID: SS-1
Matrix: Soil
Remarks:
Analyzed Date: 05/29/2001

Type: Grab

Collected: 05/14/2001 09:05
% Solid: 92%

Cas No	Analyte	MDL	Concentration	Units	Q
108-95-2	Phenol	64.8	64.8	ppb	U
111-44-4	bis(2-Chloroethyl)ether	83.9	83.9	ppb	U
95-57-8	2-Chlorophenol	78.8	78.8	ppb	U
541-73-1	1,3-Dichlorobenzene	86.0	86.0	ppb	U
106-46-7	1,4-Dichlorobenzene	81.7	81.7	ppb	U
100-51-6	Benzyl alcohol	82.3	82.3	ppb	U
95-50-1	1,2-Dichlorobenzene	92.2	92.2	ppb	U
95-48-7	2-Methylphenol	82.6	82.6	ppb	U
108-60-1	bis(2-Chloroisopropyl)ether	87.2	87.2	ppb	U
106-44-5	3,4-Methylphenol	82.7	82.7	ppb	U
621-64-7	N-Nitroso-di-n-propylamine	76.2	76.2	ppb	U
67-72-1	Hexachloroethane	73.3	73.3	ppb	U
98-95-3	Nitrobenzene	91.1	91.1	ppb	U
78-59-1	Isophorone	74.2	74.2	ppb	U
88-75-5	2-Nitrophenol	69.1	69.1	ppb	U
105-67-9	2,4-Dimethylphenol	64.7	64.7	ppb	U
65-85-0	Benzoic acid	54.8	54.8	ppb	U
111-91-1	bis(2-Chloroethoxy)methane	84.9	84.9	ppb	U
120-83-2	2,4-Dichlorophenol	76.4	76.4	ppb	U
120-82-1	1,2,4-Trichlorobenzene	93.2	93.2	ppb	U
91-20-3	Naphthalene	90.0	90.0	ppb	U
106-47-8	4-Chloroaniline	46.2	46.2	ppb	U
87-68-3	Hexachlorobutadiene	87.2	87.2	ppb	U
59-50-7	4-Chloro-3-methylphenol	89.7	89.7	ppb	U
91-57-6	2-Methylnaphthalene	76.6	76.6	ppb	U
77-47-4	Hexachlorocyclopentadiene	38.6	38.6	ppb	U
88-06-2	2,4,6-Trichlorophenol	76.7	76.7	ppb	U
95-95-4	2,4,5-Trichlorophenol	68.4	68.4	ppb	U
91-58-7	2-Chloronaphthalene	89.1	89.1	ppb	U
88-74-4	2-Nitroaniline	67.0	67.0	ppb	U
131-11-3	Dimethyl phthalate	89.0	89.0	ppb	U
208-96-8	Acenaphthylene	87.4	87.4	ppb	U
606-20-2	2,6-Dinitrotoluene	66.1	66.1	ppb	U
99-09-2	3-Nitroaniline	42.6	42.6	ppb	U
83-32-9	Acenaphthene	93.9	329	ppb	

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06/07/2001

Semivolatiles by EPA 8270B

Sample: L2619-1...continue
Client Sample ID: SS-1
Matrix: Soil
Remarks:
Analyzed Date: 05/29/2001

Type: Grab

Collected: 05/14/2001 09:05
% Solid: 92%

Cas No	Analyte	MDL	Concentration	Units	Q
51-28-5	2,4-Dinitrophenol	63.2	63.2	ppb	U
100-02-7	4-Nitrophenol	142	142	ppb	U
132-64-9	Dibenzofuran	91.6	91.6	ppb	U
121-14-2	2,4-Dinitrotoluene	60.4	60.4	ppb	U
84-66-2	Diethylphthalate	58.5	58.5	ppb	U
7005-72-3	4-Chlorophenyl-phenyl ether	105	105	ppb	U
86-73-7	Fluorene	95.4	**492**	ppb	
100-01-6	4-Nitroaniline	49.1	49.1	ppb	U
534-52-1	4,6-Dinitro-2-methylphenol	82.9	82.9	ppb	U
86-30-6	N-nitrosodiphenylamine	87.3	87.3	ppb	U
101-55-3	4-Bromophenyl-phenylether	79.6	79.6	ppb	U
118-74-1	Hexachlorobenzene	78.0	78.0	ppb	U
87-86-5	Pentachlorophenol	53.0	53.0	ppb	U
85-01-8	Phenanthrene	76.5	**609**	ppb	
120-12-7	Anthracene	78.0	78.0	ppb	U
84-74-2	Di-n-butylphthalate	235	235	ppb	U
206-44-0	Fluoranthene	69.0	**173**	ppb	
129-00-0	Pyrene	57.2	**392**	ppb	
85-68-7	Butylbenzylphthalate	52.0	52.0	ppb	U
91-94-1	3,3'-Dichlorobenzidine	90.0	90.0	ppb	U
56-55-3	Benzo(a)anthracene	54.6	54.6	ppb	U
218-01-9	Chrysene	54.3	**357**	ppb	
117-81-7	bis(2-Ethylhexyl)phthalate	353	**158**	ppb	J
117-84-0	Di-n-octylphthalate	292	292	ppb	U
205-99-2	Benzo(b)fluoranthene	228	228	ppb	U
207-08-9	Benzo(k)fluoranthene	342	342	ppb	U
50-32-8	Benzo(a)pyrene	254	254	ppb	U
193-39-5	Indeno(1,2,3-cd)pyrene	222	222	ppb	U
53-70-3	Dibenzo(a,h)anthracene	223	223	ppb	U
191-24-2	Benzo(g,h,i)perylene	213	213	ppb	U

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06/07/2001

Semivolatiles by EPA 8270B

Sample: L2619-2
Client Sample ID: SS-2
Matrix: Soil
Remarks:
Analyzed Date: 05/26/2001

Type: Grab

Collected: 05/14/2001 09:15
% Solid: 92.6%

Cas No	Analyte	MDL	Concentration	Units	Q
108-95-2	Phenol	64.4	64.4	ppb	U
111-44-4	bis(2-Chloroethyl)ether	83.4	83.4	ppb	U
95-57-8	2-Chlorophenol	78.3	78.3	ppb	U
541-73-1	1,3-Dichlorobenzene	85.4	85.4	ppb	U
106-46-7	1,4-Dichlorobenzene	81.2	81.2	ppb	U
100-51-6	Benzyl alcohol	81.7	81.7	ppb	U
95-50-1	1,2-Dichlorobenzene	91.6	91.6	ppb	U
95-48-7	2-Methylphenol	82.1	82.1	ppb	U
108-60-1	bis(2-Chloroisopropyl)ether	86.6	86.6	ppb	U
106-44-5	3,4-Methylphenol	82.2	82.2	ppb	U
621-64-7	N-Nitroso-di-n-propylamine	75.7	75.7	ppb	U
67-72-1	Hexachloroethane	72.8	72.8	ppb	U
98-95-3	Nitrobenzene	90.5	90.5	ppb	U
78-59-1	Isophorone	73.8	73.8	ppb	U
88-75-5	2-Nitrophenol	68.7	68.7	ppb	U
105-67-9	2,4-Dimethylphenol	64.3	64.3	ppb	U
65-85-0	Benzoic acid	54.4	54.4	ppb	U
111-91-1	bis(2-Chloroethoxy)methane	84.3	84.3	ppb	U
120-83-2	2,4-Dichlorophenol	75.9	75.9	ppb	U
120-82-1	1,2,4-Trichlorobenzene	92.5	92.5	ppb	U
91-20-3	Naphthalene	89.4	89.4	ppb	U
106-47-8	4-Chloroaniline	45.9	45.9	ppb	U
87-68-3	Hexachlorobutadiene	86.6	86.6	ppb	U
59-50-7	4-Chloro-3-methylphenol	89.1	89.1	ppb	U
91-57-6	2-Methylnaphthalene	76.1	76.1	ppb	U
77-47-4	Hexachlorocyclopentadiene	38.3	38.3	ppb	U
88-06-2	2,4,6-Trichlorophenol	76.2	76.2	ppb	U
95-95-4	2,4,5-Trichlorophenol	67.9	67.9	ppb	U
91-58-7	2-Chloronaphthalene	88.6	88.6	ppb	U
88-74-4	2-Nitroaniline	66.5	66.5	ppb	U
131-11-3	Dimethyl phthalate	88.4	88.4	ppb	U
208-96-8	Acenaphthylene	86.8	86.8	ppb	U
606-20-2	2,6-Dinitrotoluene	65.7	65.7	ppb	U
99-09-2	3-Nitroaniline	42.3	42.3	ppb	U
83-32-9	Acenaphthene	93.3	93.3	ppb	U

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Semivolatiles by EPA 8270B

Sample: L2619-2...continue
Client Sample ID: SS-2
Matrix: Soil
Remarks:
Analyzed Date: 05/26/2001

Type: Grab

Collected: 05/14/2001 09:15
% Solid: 92.6%

Cas No	Analyte	MDL	Concentration	Units	Q
51-28-5	2,4-Dinitrophenol	62.7	62.7	ppb	U
100-02-7	4-Nitrophenol	141	141	ppb	U
132-64-9	Dibenzofuran	91.0	91.0	ppb	U
121-14-2	2,4-Dinitrotoluene	60.0	60.0	ppb	U
84-66-2	Diethylphthalate	58.1	58.1	ppb	U
7005-72-3	4-Chlorophenyl-phenyl ether	105	105	ppb	U
86-73-7	Fluorene	94.8	94.8	ppb	U
100-01-6	4-Nitroaniline	48.8	48.8	ppb	U
534-52-1	4,6-Dinitro-2-methylphenol	82.4	82.4	ppb	U
86-30-6	N-nitrosodiphenylamine	86.7	86.7	ppb	U
101-55-3	4-Bromophenyl-phenylether	79.0	79.0	ppb	U
118-74-1	Hexachlorobenzene	77.5	77.5	ppb	U
87-86-5	Pentachlorophenol	52.7	52.7	ppb	U
85-01-8	Phenanthrene	76.0	76.0	ppb	U
120-12-7	Anthracene	77.5	77.5	ppb	U
84-74-2	Di-n-butylphthalate	233	233	ppb	U
206-44-0	Fluoranthene	68.6	68.6	ppb	U
129-00-0	Pyrene	56.8	56.8	ppb	U
85-68-7	Butylbenzylphthalate	51.6	51.6	ppb	U
91-94-1	3,3'-Dichlorobenzidine	89.4	89.4	ppb	U
56-55-3	Benzo(a)anthracene	54.2	54.2	ppb	U
218-01-9	Chrysene	54.0	54.0	ppb	U
117-81-7	bis(2-Ethylhexyl)phthalate	351	98.3	ppb	J
117-84-0	Di-n-octylphthalate	66.5	66.5	ppb	U
205-99-2	Benzo(b)fluoranthene	88.7	88.7	ppb	U
207-08-9	Benzo(k)fluoranthene	71.9	71.9	ppb	U
50-32-8	Benzo(a)pyrene	58.7	58.7	ppb	U
193-39-5	Indeno(1,2,3-cd)pyrene	68.7	68.7	ppb	U
53-70-3	Dibenzo(a,h)anthracene	64.6	64.6	ppb	U
191-24-2	Benzo(g,h,i)perylene	57.2	57.2	ppb	U

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06/07/2001

Semivolatiles by EPA 8270B

Sample: L2619-3
Client Sample ID: SS-3
Matrix: Soil
Type: Grab
Collected: 05/14/2001 09:40
% Solid: 92.6%
Remarks:
Analyzed Date: 05/26/2001

Cas No	Analyte	MDL	Concentration	Units	Q
108-95-2	Phenol	21.5	21.5	ppb	U
111-44-4	bis(2-Chloroethyl)ether	27.8	27.8	ppb	U
95-57-8	2-Chlorophenol	26.1	26.1	ppb	U
541-73-1	1,3-Dichlorobenzene	28.5	28.5	ppb	U
106-46-7	1,4-Dichlorobenzene	27.1	27.1	ppb	U
100-51-6	Benzyl alcohol	27.3	27.3	ppb	U
95-50-1	1,2-Dichlorobenzene	30.5	**13.0**	ppb	J
95-48-7	2-Methylphenol	27.4	27.4	ppb	U
108-60-1	bis(2-Chloroisopropyl)ether	28.9	28.9	ppb	U
106-44-5	3,4-Methylphenol	27.4	27.4	ppb	U
621-64-7	N-Nitroso-di-n-propylamine	25.2	25.2	ppb	U
67-72-1	Hexachloroethane	24.3	24.3	ppb	U
98-95-3	Nitrobenzene	30.2	30.2	ppb	U
78-59-1	Isophorone	24.6	24.6	ppb	U
88-75-5	2-Nitrophenol	22.9	22.9	ppb	U
105-67-9	2,4-Dimethylphenol	21.4	21.4	ppb	U
65-85-0	Benzoic acid	18.1	18.1	ppb	U
111-91-1	bis(2-Chloroethoxy)methane	28.1	28.1	ppb	U
120-83-2	2,4-Dichlorophenol	25.3	25.3	ppb	U
120-82-1	1,2,4-Trichlorobenzene	30.9	30.9	ppb	U
91-20-3	Naphthalene	29.8	**205**	ppb	
106-47-8	4-Chloroaniline	15.3	15.3	ppb	U
87-68-3	Hexachlorobutadiene	28.9	28.9	ppb	U
59-50-7	4-Chloro-3-methylphenol	29.7	29.7	ppb	U
91-57-6	2-Methylnaphthalene	25.4	**46.8**	ppb	
77-47-4	Hexachlorocyclopentadiene	12.8	12.8	ppb	U
88-06-2	2,4,6-Trichlorophenol	25.4	25.4	ppb	U
95-95-4	2,4,5-Trichlorophenol	22.6	22.6	ppb	U
91-58-7	2-Chloronaphthalene	29.5	29.5	ppb	U
88-74-4	2-Nitroaniline	22.2	22.2	ppb	U
131-11-3	Dimethyl phthalate	29.5	29.5	ppb	U
208-96-8	Acenaphthylene	28.9	28.9	ppb	U
606-20-2	2,6-Dinitrotoluene	21.9	21.9	ppb	U
99-09-2	3-Nitroaniline	14.1	14.1	ppb	U
83-32-9	Acenaphthene	31.1	260	ppb	

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06/07/2001

Semivolatiles by EPA 8270B

Sample: L2619-3...continue

Client Sample ID: SS-3
Matrix: Soil
Type: Grab
Collected: 05/14/2001 09:40
% Solid: 92.6%
Remarks:
Analyzed Date: 05/26/2001

Cas No	Analyte	MDL	Concentration	Units	Q
51-28-5	2,4-Dinitrophenol	20.9	20.9	ppb	U
100-02-7	4-Nitrophenol	47.0	47.0	ppb	U
132-64-9	Dibenzofuran	30.3	128	ppb	
121-14-2	2,4-Dinitrotoluene	20.0	20.0	ppb	U
84-66-2	Diethylphthalate	19.4	37.4	ppb	
7005-72-3	4-Chlorophenyl-phenyl ether	34.9	34.9	ppb	U
86-73-7	Fluorene	31.6	239	ppb	
100-01-6	4-Nitroaniline	16.3	16.3	ppb	U
534-52-1	4,6-Dinitro-2-methylphenol	27.5	27.5	ppb	U
86-30-6	N-nitrosodiphenylamine	28.9	28.9	ppb	U
101-55-3	4-Bromophenyl-phenylether	26.4	26.4	ppb	U
118-74-1	Hexachlorobenzene	25.8	25.8	ppb	U
87-86-5	Pentachlorophenol	17.6	17.6	ppb	U
85-01-8	Phenanthrene	25.3	2000	ppb	
120-12-7	Anthracene	25.8	361	ppb	
84-74-2	Di-n-butylphthalate	77.8	23.8	ppb	J
206-44-0	Fluoranthene	22.9	2400	ppb	
129-00-0	Pyrene	18.9	2080	ppb	
85-68-7	Butylbenzylphthalate	17.2	63.7	ppb	
91-94-1	3,3'-Dichlorobenzidine	29.8	29.8	ppb	U
56-55-3	Benzo(a)anthracene	18.1	1080	ppb	
218-01-9	Chrysene	18.0	1300	ppb	
117-81-7	bis(2-Ethylhexyl)phthalate	117	107	ppb	J
117-84-0	Di-n-octylphthalate	22.2	22.2	ppb	U
205-99-2	Benzo(b)fluoranthene	29.6	1330	ppb	
207-08-9	Benzo(k)fluoranthene	24.0	659	ppb	
50-32-8	Benzo(a)pyrene	19.6	792	ppb	
193-39-5	Indeno(1,2,3-cd)pyrene	22.9	294	ppb	
53-70-3	Dibenzo(a,h)anthracene	21.5	117	ppb	
191-24-2	Benzo(g,h,i)perylene	19.1	294	ppb	

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06/07/2001

Semivolatiles by EPA 8270B

Sample: L2619-4
Client Sample ID: SS-4
Matrix: Soil
Remarks:
Analyzed Date: 05/26/2001

Type: Grab

Collected: 05/14/2001 09:55
% Solid: 79.2%

Cas No	Analyte	MDL	Concentration	Units	Q
108-95-2	Phenol	75.3	75.3	ppb	U
111-44-4	bis(2-Chloroethyl)ether	97.5	97.5	ppb	U
95-57-8	2-Chlorophenol	91.5	91.5	ppb	U
541-73-1	1,3-Dichlorobenzene	99.9	99.9	ppb	U
106-46-7	1,4-Dichlorobenzene	94.9	94.9	ppb	U
100-51-6	Benzyl alcohol	95.6	95.6	ppb	U
95-50-1	1,2-Dichlorobenzene	107	107	ppb	U
95-48-7	2-Methylphenol	96.0	96.0	ppb	U
108-60-1	bis(2-Chloroisopropyl)ether	101	101	ppb	U
106-44-5	3,4-Methylphenol	96.1	96.1	ppb	U
621-64-7	N-Nitroso-di-n-propylamine	88.5	88.5	ppb	U
67-72-1	Hexachloroethane	85.1	85.1	ppb	U
98-95-3	Nitrobenzene	106	106	ppb	U
78-59-1	Isophorone	86.2	86.2	ppb	U
88-75-5	2-Nitrophenol	80.3	80.3	ppb	U
105-67-9	2,4-Dimethylphenol	75.1	75.1	ppb	U
65-85-0	Benzoic acid	63.6	63.6	ppb	U
111-91-1	bis(2-Chloroethoxy)methane	98.6	98.6	ppb	U
120-83-2	2,4-Dichlorophenol	88.8	88.8	ppb	U
120-82-1	1,2,4-Trichlorobenzene	108	108	ppb	U
91-20-3	Naphthalene	105	105	ppb	U
106-47-8	4-Chloroaniline	53.7	53.7	ppb	U
87-68-3	Hexachlorobutadiene	101	101	ppb	U
59-50-7	4-Chloro-3-methylphenol	104	104	ppb	U
91-57-6	2-Methylnaphthalene	89.0	30.3	ppb	J
77-47-4	Hexachlorocyclopentadiene	44.8	44.8	ppb	U
88-06-2	2,4,6-Trichlorophenol	89.1	89.1	ppb	U
95-95-4	2,4,5-Trichlorophenol	79.4	79.4	ppb	U
91-58-7	2-Chloronaphthalene	104	104	ppb	U
88-74-4	2-Nitroaniline	77.8	77.8	ppb	U
131-11-3	Dimethyl phthalate	103	103	ppb	U
208-96-8	Acenaphthylene	102	102	ppb	U
606-20-2	2,6-Dinitrotoluene	76.8	76.8	ppb	U
99-09-2	3-Nitroaniline	49.5	49.5	ppb	U
83-32-9	Acenaphthene	109	109	ppb	U

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06/07/2001

Semivolatiles by EPA 8270B

Sample: L2619-4...continue
Client Sample ID: SS-4
Matrix: Soil
Remarks:
Analyzed Date: 05/26/2001

Type: Grab

Collected: 05/14/2001 09:55
% Solid: 79.2%

Cas No	Analyte	MDL	Concentration	Units	Q
51-28-5	2,4-Dinitrophenol	73.4	73.4	ppb	U
100-02-7	4-Nitrophenol	165	165	ppb	U
132-64-9	Dibenzofuran	106	106	ppb	U
121-14-2	2,4-Dinitrotoluene	70.2	70.2	ppb	U
84-66-2	Diethylphthalate	67.9	67.9	ppb	U
7005-72-3	4-Chlorophenyl-phenyl ether	122	122	ppb	U
86-73-7	Fluorene	111	111	ppb	U
100-01-6	4-Nitroaniline	57.1	57.1	ppb	U
534-52-1	4,6-Dinitro-2-methylphenol	96.3	96.3	ppb	U
86-30-6	N-nitrosodiphenylamine	101	101	ppb	U
101-55-3	4-Bromophenyl-phenylether	92.4	92.4	ppb	U
118-74-1	Hexachlorobenzene	90.7	90.7	ppb	U
87-86-5	Pentachlorophenol	61.6	61.6	ppb	U
85-01-8	Phenanthrene	88.9	88.9	ppb	U
120-12-7	Anthracene	90.7	90.7	ppb	U
84-74-2	Di-n-butylphthalate	273	273	ppb	U
206-44-0	Fluoranthene	80.2	**83.3**	ppb	
129-00-0	Pyrene	66.4	**87.1**	ppb	
85-68-7	Butylbenzylphthalate	60.4	60.4	ppb	U
91-94-1	3,3'-Dichlorobenzidine	105	105	ppb	U
56-55-3	Benzo(a)anthracene	63.4	**59.3**	ppb	J
218-01-9	Chrysene	63.1	**106**	ppb	
117-81-7	bis(2-Ethylhexyl)phthalate	411	**97.2**	ppb	J
117-84-0	Di-n-octylphthalate	77.8	77.8	ppb	U
205-99-2	Benzo(b)fluoranthene	104	**68.2**	ppb	J
207-08-9	Benzo(k)fluoranthene	84.1	**25.3**	ppb	J
50-32-8	Benzo(a)pyrene	68.7	**87.1**	ppb	
193-39-5	Indeno(1,2,3-cd)pyrene	80.3	80.3	ppb	U
53-70-3	Dibenzo(a,h)anthracene	75.5	75.5	ppb	U
191-24-2	Benzo(g,h,i)perylene	66.9	66.9	ppb	U

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06/07/2001

Semivolatiles by EPA 8270B

Sample: L2619-5

Client Sample ID: SS-5

Matrix: Soil

Type: Grab

Collected: 05/14/2001 10:05

% Solid: 90.9%

Remarks:

Analyzed Date: 05/29/2001

Cas No	Analyte	MDL	Concentration	Units	Q
108-95-2	Phenol	65.6	65.6	ppb	U
111-44-4	bis(2-Chloroethyl)ether	84.9	84.9	ppb	U
95-57-8	2-Chlorophenol	79.8	79.8	ppb	U
541-73-1	1,3-Dichlorobenzene	87.0	87.0	ppb	U
106-46-7	1,4-Dichlorobenzene	82.7	82.7	ppb	U
100-51-6	Benzyl alcohol	83.3	83.3	ppb	U
95-50-1	1,2-Dichlorobenzene	93.3	93.3	ppb	U
95-48-7	2-Methylphenol	83.6	83.6	ppb	U
108-60-1	bis(2-Chloroisopropyl)ether	88.2	88.2	ppb	U
106-44-5	3,4-Methylphenol	83.7	83.7	ppb	U
621-64-7	N-Nitroso-di-n-propylamine	77.1	77.1	ppb	U
67-72-1	Hexachloroethane	74.1	74.1	ppb	U
98-95-3	Nitrobenzene	92.2	92.2	ppb	U
78-59-1	Isophorone	75.1	75.1	ppb	U
88-75-5	2-Nitrophenol	70.0	70.0	ppb	U
105-67-9	2,4-Dimethylphenol	65.5	65.5	ppb	U
65-85-0	Benzoic acid	55.4	55.4	ppb	U
111-91-1	bis(2-Chloroethoxy)methane	85.9	85.9	ppb	U
120-83-2	2,4-Dichlorophenol	77.3	77.3	ppb	U
120-82-1	1,2,4-Trichlorobenzene	94.3	94.3	ppb	U
91-20-3	Naphthalene	91.1	91.1	ppb	U
106-47-8	4-Chloroaniline	46.8	46.8	ppb	U
87-68-3	Hexachlorobutadiene	88.2	88.2	ppb	U
59-50-7	4-Chloro-3-methylphenol	90.8	90.8	ppb	U
91-57-6	2-Methylnaphthalene	77.6	77.6	ppb	U
77-47-4	Hexachlorocyclopentadiene	39.1	39.1	ppb	U
88-06-2	2,4,6-Trichlorophenol	77.7	77.7	ppb	U
95-95-4	2,4,5-Trichlorophenol	69.2	69.2	ppb	U
91-58-7	2-Chloronaphthalene	90.2	90.2	ppb	U
88-74-4	2-Nitroaniline	67.8	67.8	ppb	U
131-11-3	Dimethyl phthalate	90.1	90.1	ppb	U
208-96-8	Acenaphthylene	88.4	88.4	ppb	U
606-20-2	2,6-Dinitrotoluene	66.9	66.9	ppb	U
99-09-2	3-Nitroaniline	43.1	43.1	ppb	U
83-32-9	Acenaphthene	95.0	1050	ppb	

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06/07/2001

Semivolatiles by EPA 8270B

Sample: L2619-5...continue
Client Sample ID: SS-5
Matrix: Soil
Remarks:
Analyzed Date: 05/29/2001

Type: Grab

Collected: 05/14/2001 10:05
% Solid: 90.9%

Cas No	Analyte	MDL	Concentration	Units	Q
51-28-5	2,4-Dinitrophenol	63.9	63.9	ppb	U
100-02-7	4-Nitrophenol	144	144	ppb	U
132-64-9	Dibenzofuran	92.7	**351**	ppb	
121-14-2	2,4-Dinitrotoluene	61.2	61.2	ppb	U
84-66-2	Diethylphthalate	59.2	59.2	ppb	U
7005-72-3	4-Chlorophenyl-phenyl ether	107	107	ppb	U
86-73-7	Fluorene	96.6	**430**	ppb	
100-01-6	4-Nitroaniline	49.7	49.7	ppb	U
534-52-1	4,6-Dinitro-2-methylphenol	83.9	83.9	ppb	U
86-30-6	N-nitrosodiphenylamine	88.3	88.3	ppb	U
101-55-3	4-Bromophenyl-phenylether	80.5	80.5	ppb	U
118-74-1	Hexachlorobenzene	79.0	79.0	ppb	U
87-86-5	Pentachlorophenol	53.7	53.7	ppb	U
85-01-8	Phenanthrene	77.4	**457**	ppb	
120-12-7	Anthracene	79.0	**308**	ppb	
84-74-2	Di-n-butylphthalate	238	238	ppb	U
206-44-0	Fluoranthene	69.9	**582**	ppb	
129-00-0	Pyrene	57.9	**474**	ppb	
85-68-7	Butylbenzylphthalate	52.6	52.6	ppb	U
91-94-1	3,3'-Dichlorobenzidine	91.1	91.1	ppb	U
56-55-3	Benzo(a)anthracene	55.2	55.2	ppb	U
218-01-9	Chrysene	55.0	**215**	ppb	
117-81-7	bis(2-Ethylhexyl)phthalate	358	**155**	ppb	J
117-84-0	Di-n-octylphthalate	296	296	ppb	U
205-99-2	Benzo(b)fluoranthene	231	231	ppb	U
207-08-9	Benzo(k)fluoranthene	346	346	ppb	U
50-32-8	Benzo(a)pyrene	257	257	ppb	U
193-39-5	Indeno(1,2,3-cd)pyrene	225	225	ppb	U
53-70-3	Dibenzo(a,h)anthracene	226	226	ppb	U
191-24-2	Benzo(g,h,i)perylene	216	216	ppb	U

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06/07/2001

Semivolatiles by EPA 8270B

Sample: L2619-6

Client Sample ID: SS-6

Matrix: Soil

Type: Grab

Collected: 05/14/2001 10:15

% Solid: 80%

Remarks:

Analyzed Date: 05/29/2001

Cas No	Analyte	MDL	Concentration	Units	Q
108-95-2	Phenol	74.5	74.5	ppb	U
111-44-4	bis(2-Chloroethyl)ether	96.5	96.5	ppb	U
95-57-8	2-Chlorophenol	90.6	90.6	ppb	U
541-73-1	1,3-Dichlorobenzene	98.9	98.9	ppb	U
106-46-7	1,4-Dichlorobenzene	94.0	94.0	ppb	U
100-51-6	Benzyl alcohol	94.6	94.6	ppb	U
95-50-1	1,2-Dichlorobenzene	106	106	ppb	U
95-48-7	2-Methylphenol	95.0	95.0	ppb	U
108-60-1	bis(2-Chloroisopropyl)ether	100	100	ppb	U
106-44-5	3,4-Methylphenol	95.1	95.1	ppb	U
621-64-7	N-Nitroso-di-n-propylamine	87.6	87.6	ppb	U
67-72-1	Hexachloroethane	84.3	84.3	ppb	U
98-95-3	Nitrobenzene	105	105	ppb	U
78-59-1	Isophorone	85.4	85.4	ppb	U
88-75-5	2-Nitrophenol	79.5	79.5	ppb	U
105-67-9	2,4-Dimethylphenol	74.4	74.4	ppb	U
65-85-0	Benzoic acid	63.0	63.0	ppb	U
111-91-1	bis(2-Chloroethoxy)methane	97.6	97.6	ppb	U
120-83-2	2,4-Dichlorophenol	87.9	87.9	ppb	U
120-82-1	1,2,4-Trichlorobenzene	107	107	ppb	U
91-20-3	Naphthalene	104	104	ppb	U
106-47-8	4-Chloroaniline	53.1	53.1	ppb	U
87-68-3	Hexachlorobutadiene	100	100	ppb	U
59-50-7	4-Chloro-3-methylphenol	103	103	ppb	U
91-57-6	2-Methylnaphthalene	88.1	88.1	ppb	U
77-47-4	Hexachlorocyclopentadiene	44.4	44.4	ppb	U
88-06-2	2,4,6-Trichlorophenol	88.3	88.3	ppb	U
95-95-4	2,4,5-Trichlorophenol	78.6	78.6	ppb	U
91-58-7	2-Chloronaphthalene	102	102	ppb	U
88-74-4	2-Nitroaniline	77.0	77.0	ppb	U
131-11-3	Dimethyl phthalate	102	102	ppb	U
208-96-8	Acenaphthylene	100	100	ppb	U
606-20-2	2,6-Dinitrotoluene	76.0	76.0	ppb	U
99-09-2	3-Nitroaniline	49.0	49.0	ppb	U
83-32-9	Acenaphthene	108	108	ppb	U

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06/07/2001

Semivolatiles by EPA 8270B

Sample: L2619-6...continue

Client Sample ID: SS-6

Matrix: Soil

Type: Grab

Collected: 05/14/2001 10:15

% Solid: 80%

Remarks:

Analyzed Date: 05/29/2001

Cas No	Analyte	MDL	Concentration	Units	Q
51-28-5	2,4-Dinitrophenol	72.6	72.6	ppb	U
100-02-7	4-Nitrophenol	163	163	ppb	U
132-64-9	Dibenzofuran	105	105	ppb	U
121-14-2	2,4-Dinitrotoluene	69.5	69.5	ppb	U
84-66-2	Diethylphthalate	67.3	**56.3**	ppb	J
7005-72-3	4-Chlorophenyl-phenyl ether	121	121	ppb	U
86-73-7	Fluorene	110	110	ppb	U
100-01-6	4-Nitroaniline	56.5	56.5	ppb	U
534-52-1	4,6-Dinitro-2-methylphenol	95.4	95.4	ppb	U
86-30-6	N-nitrosodiphenylamine	100	100	ppb	U
101-55-3	4-Bromophenyl-phenylether	91.5	91.5	ppb	U
118-74-1	Hexachlorobenzene	89.8	89.8	ppb	U
87-86-5	Pentachlorophenol	61.0	61.0	ppb	U
85-01-8	Phenanthrene	88.0	**45.0**	ppb	J
120-12-7	Anthracene	89.8	89.8	ppb	U
84-74-2	Di-n-butylphthalate	270	**35.0**	ppb	J
206-44-0	Fluoranthene	79.4	**65.0**	ppb	J
129-00-0	Pyrene	65.8	**100**	ppb	
85-68-7	Butylbenzylphthalate	59.8	59.8	ppb	U
91-94-1	3,3'-Dichlorobenzidine	104	104	ppb	U
56-55-3	Benzo(a)anthracene	62.8	**47.5**	ppb	J
218-01-9	Chrysene	62.5	**148**	ppb	
117-81-7	bis(2-Ethylhexyl)phthalate	406	**124**	ppb	J
117-84-0	Di-n-octylphthalate	336	336	ppb	U
205-99-2	Benzo(b)fluoranthene	262	262	ppb	U
207-08-9	Benzo(k)fluoranthene	393	393	ppb	U
50-32-8	Benzo(a)pyrene	292	292	ppb	U
193-39-5	Indeno(1,2,3-cd)pyrene	256	256	ppb	U
53-70-3	Dibenzo(a,h)anthracene	257	257	ppb	U
191-24-2	Benzo(g,h,i)perylene	245	245	ppb	U

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06/07/2001

Semivolatiles by EPA 8270B

Sample: L2619-7

Client Sample ID: SS-7

Matrix: Soil

Type: Grab

Collected: 05/14/2001 10:30

% Solid: 93.6%

Remarks:

Analyzed Date: 05/29/2001

Cas No	Analyte	MDL	Concentration	Units	Q
108-95-2	Phenol	63.7	63.7	ppb	U
111-44-4	bis(2-Chloroethyl)ether	82.5	82.5	ppb	U
95-57-8	2-Chlorophenol	77.5	77.5	ppb	U
541-73-1	1,3-Dichlorobenzene	84.5	84.5	ppb	U
106-46-7	1,4-Dichlorobenzene	80.3	80.3	ppb	U
100-51-6	Benzyl alcohol	80.9	80.9	ppb	U
95-50-1	1,2-Dichlorobenzene	90.6	90.6	ppb	U
95-48-7	2-Methylphenol	81.2	81.2	ppb	U
108-60-1	bis(2-Chloroisopropyl)ether	85.7	85.7	ppb	U
106-44-5	3,4-Methylphenol	81.3	81.3	ppb	U
621-64-7	N-Nitroso-di-n-propylamine	74.9	74.9	ppb	U
67-72-1	Hexachloroethane	72.0	72.0	ppb	U
98-95-3	Nitrobenzene	89.5	89.5	ppb	U
78-59-1	Isophorone	73.0	73.0	ppb	U
88-75-5	2-Nitrophenol	68.0	68.0	ppb	U
105-67-9	2,4-Dimethylphenol	63.6	63.6	ppb	U
65-85-0	Benzoic acid	53.8	53.8	ppb	U
111-91-1	bis(2-Chloroethoxy)methane	83.4	83.4	ppb	U
120-83-2	2,4-Dichlorophenol	75.1	75.1	ppb	U
120-82-1	1,2,4-Trichlorobenzene	91.6	91.6	ppb	U
91-20-3	Naphthalene	88.5	88.5	ppb	U
106-47-8	4-Chloroaniline	45.4	45.4	ppb	U
87-68-3	Hexachlorobutadiene	85.7	85.7	ppb	U
59-50-7	4-Chloro-3-methylphenol	88.1	88.1	ppb	U
91-57-6	2-Methylnaphthalene	75.3	75.3	ppb	U
77-47-4	Hexachlorocyclopentadiene	37.9	37.9	ppb	U
88-06-2	2,4,6-Trichlorophenol	75.4	75.4	ppb	U
95-95-4	2,4,5-Trichlorophenol	67.2	67.2	ppb	U
91-58-7	2-Chloronaphthalene	87.6	87.6	ppb	U
88-74-4	2-Nitroaniline	65.8	65.8	ppb	U
131-11-3	Dimethyl phthalate	87.5	87.5	ppb	U
208-96-8	Acenaphthylene	85.9	85.9	ppb	U
606-20-2	2,6-Dinitrotoluene	65.0	65.0	ppb	U
99-09-2	3-Nitroaniline	41.9	41.9	ppb	U
83-32-9	Acenaphthene	92.3	92.3	ppb	U

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06/07/2001

Semivolatiles by EPA 8270B

Sample: L2619-7...continue
Client Sample ID: SS-7
Matrix: Soil
Remarks:
Analyzed Date: 05/29/2001

Type: Grab

Collected: 05/14/2001 10:30
% Solid: 93.6%

Cas No	Analyte	MDL	Concentration	Units	Q
51-28-5	2,4-Dinitrophenol	62.1	62.1	ppb	U
100-02-7	4-Nitrophenol	139	139	ppb	U
132-64-9	Dibenzofuran	90.1	90.1	ppb	U
121-14-2	2,4-Dinitrotoluene	59.4	59.4	ppb	U
84-66-2	Diethylphthalate	57.5	57.5	ppb	U
7005-72-3	4-Chlorophenyl-phenyl ether	104	104	ppb	U
86-73-7	Fluorene	93.8	93.8	ppb	U
100-01-6	4-Nitroaniline	48.3	48.3	ppb	U
534-52-1	4,6-Dinitro-2-methylphenol	81.5	81.5	ppb	U
86-30-6	N-nitrosodiphenylamine	85.8	85.8	ppb	U
101-55-3	4-Bromophenyl-phenylether	78.2	78.2	ppb	U
118-74-1	Hexachlorobenzene	76.7	76.7	ppb	U
87-86-5	Pentachlorophenol	52.1	52.1	ppb	U
85-01-8	Phenanthrene	75.2	75.2	ppb	U
120-12-7	Anthracene	76.7	76.7	ppb	U
84-74-2	Di-n-butylphthalate	231	231	ppb	U
206-44-0	Fluoranthene	67.8	67.8	ppb	U
129-00-0	Pyrene	354	354	ppb	U
85-68-7	Butylbenzylphthalate	319	319	ppb	U
91-94-1	3,3'-Dichlorobenzidine	1040	1040	ppb	U
56-55-3	Benzo(a)anthracene	323	323	ppb	U
218-01-9	Chrysene	344	344	ppb	U
117-81-7	bis(2-Ethylhexyl)phthalate	1840	1840	ppb	U
117-84-0	Di-n-octylphthalate	287	287	ppb	U
205-99-2	Benzo(b)fluoranthene	224	224	ppb	U
207-08-9	Benzo(k)fluoranthene	336	336	ppb	U
50-32-8	Benzo(a)pyrene	250	250	ppb	U
193-39-5	Indeno(1,2,3-cd)pyrene	218	218	ppb	U
53-70-3	Dibenzo(a,h)anthracene	220	220	ppb	U
191-24-2	Benzo(g,h,i)perylene	209	209	ppb	U

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06/07/2001

Semivolatiles by EPA 8270B

Sample: L2619-8

Client Sample ID: SS-11

Matrix: Soil

Remarks:

Analyzed Date: 05/29/2001

Type: Grab

Collected: 05/14/2001 10:45

% Solid: 92.4%

Cas No	Analyte	MDL	Concentration	Units	Q
108-95-2	Phenol	64.5	64.5	ppb	U
111-44-4	bis(2-Chloroethyl)ether	83.6	83.6	ppb	U
95-57-8	2-Chlorophenol	78.5	78.5	ppb	U
541-73-1	1,3-Dichlorobenzene	85.6	85.6	ppb	U
106-46-7	1,4-Dichlorobenzene	81.4	81.4	ppb	U
100-51-6	Benzyl alcohol	81.9	81.9	ppb	U
95-50-1	1,2-Dichlorobenzene	91.8	91.8	ppb	U
95-48-7	2-Methylphenol	82.3	82.3	ppb	U
108-60-1	bis(2-Chloroisopropyl)ether	86.8	86.8	ppb	U
106-44-5	3,4-Methylphenol	82.4	82.4	ppb	U
621-64-7	N-Nitroso-di-n-propylamine	75.9	75.9	ppb	U
67-72-1	Hexachloroethane	72.9	72.9	ppb	U
98-95-3	Nitrobenzene	90.7	90.7	ppb	U
78-59-1	Isophorone	73.9	73.9	ppb	U
88-75-5	2-Nitrophenol	68.8	68.8	ppb	U
105-67-9	2,4-Dimethylphenol	64.4	64.4	ppb	U
65-85-0	Benzoic acid	54.5	54.5	ppb	U
111-91-1	bis(2-Chloroethoxy)methane	84.5	84.5	ppb	U
120-83-2	2,4-Dichlorophenol	76.1	76.1	ppb	U
120-82-1	1,2,4-Trichlorobenzene	92.8	92.8	ppb	U
91-20-3	Naphthalene	89.6	89.6	ppb	U
106-47-8	4-Chloroaniline	46.0	46.0	ppb	U
87-68-3	Hexachlorobutadiene	86.8	86.8	ppb	U
59-50-7	4-Chloro-3-methylphenol	89.3	89.3	ppb	U
91-57-6	2-Methylnaphthalene	76.3	76.3	ppb	U
77-47-4	Hexachlorocyclopentadiene	38.4	38.4	ppb	U
88-06-2	2,4,6-Trichlorophenol	76.4	76.4	ppb	U
95-95-4	2,4,5-Trichlorophenol	68.1	68.1	ppb	U
91-58-7	2-Chloronaphthalene	88.7	88.7	ppb	U
88-74-4	2-Nitroaniline	66.7	66.7	ppb	U
131-11-3	Dimethyl phthalate	88.6	88.6	ppb	U
208-96-8	Acenaphthylene	87.0	73.6	ppb	J
606-20-2	2,6-Dinitrotoluene	65.8	65.8	ppb	U
99-09-2	3-Nitroaniline	42.4	42.4	ppb	U
83-32-9	Acenaphthene	93.5	43.3	ppb	J

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06/07/2001

Semivolatiles by EPA 8270B

Sample: L2619-8...continue
Client Sample ID: SS-11
Matrix: Soil
Remarks:
Analyzed Date: 05/29/2001

Type: Grab

Collected: 05/14/2001 10:45
% Solid: 92.4%

Cas No	Analyte	MDL	Concentration	Units	Q
51-28-5	2,4-Dinitrophenol	62.9	62.9	ppb	U
100-02-7	4-Nitrophenol	141	141	ppb	U
132-64-9	Dibenzofuran	91.2	**27.1**	ppb	J
121-14-2	2,4-Dinitrotoluene	60.2	60.2	ppb	U
84-66-2	Diethylphthalate	58.2	58.2	ppb	U
7005-72-3	4-Chlorophenyl-phenyl ether	105	105	ppb	U
86-73-7	Fluorene	95.0	**55.2**	ppb	J
100-01-6	4-Nitroaniline	48.9	48.9	ppb	U
534-52-1	4,6-Dinitro-2-methylphenol	82.6	82.6	ppb	U
86-30-6	N-nitrosodiphenylamine	86.9	86.9	ppb	U
101-55-3	4-Bromophenyl-phenylether	79.2	79.2	ppb	U
118-74-1	Hexachlorobenzene	77.7	77.7	ppb	U
87-86-5	Pentachlorophenol	52.8	52.8	ppb	U
85-01-8	Phenanthrene	76.2	**654**	ppb	
120-12-7	Anthracene	77.7	**203**	ppb	
84-74-2	Di-n-butylphthalate	234	234	ppb	U
206-44-0	Fluoranthene	68.7	**1390**	ppb	
129-00-0	Pyrene	56.9	**1190**	ppb	
85-68-7	Butylbenzylphthalate	51.7	**33.5**	ppb	J
91-94-1	3,3'-Dichlorobenzidine	89.6	89.6	ppb	U
56-55-3	Benzo(a)anthracene	54.3	**622**	ppb	
218-01-9	Chrysene	54.1	**665**	ppb	
117-81-7	bis(2-Ethylhexyl)phthalate	352	**73.6**	ppb	J
117-84-0	Di-n-octylphthalate	66.7	66.7	ppb	U
205-99-2	Benzo(b)fluoranthene	88.9	**832**	ppb	
207-08-9	Benzo(k)fluoranthene	72.1	**506**	ppb	
50-32-8	Benzo(a)pyrene	58.9	**585**	ppb	
193-39-5	Indeno(1,2,3-cd)pyrene	68.8	**186**	ppb	
53-70-3	Dibenzo(a,h)anthracene	64.7	**55.2**	ppb	J
191-24-2	Benzo(g,h,i)perylene	57.4	**224**	ppb	

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06/07/2001

Semivolatiles by EPA 8270B

Sample: L2619-9
Client Sample ID: SS-9
Matrix: Soil
Remarks:
Analyzed Date: 05/30/2001

Type: Grab

Collected: 05/14/2001 10:55
% Solid: 89.1%

Cas No	Analyte	MDL	Concentration	Units	Q
108-95-2	Phenol	36.5	36.5	ppb	U
111-44-4	bis(2-Chloroethyl)ether	35.1	35.1	ppb	U
95-57-8	2-Chlorophenol	35.8	35.8	ppb	U
541-73-1	1,3-Dichlorobenzene	38.3	38.3	ppb	U
106-46-7	1,4-Dichlorobenzene	37.3	37.3	ppb	U
100-51-6	Benzyl alcohol	31.6	31.6	ppb	U
95-50-1	1,2-Dichlorobenzene	37.6	37.6	ppb	U
95-48-7	2-Methylphenol	31.1	31.1	ppb	U
108-60-1	bis(2-Chloroisopropyl)ether	40.6	40.6	ppb	U
106-44-5	3,4-Methylphenol	30.1	30.1	ppb	U
621-64-7	N-Nitroso-di-n-propylamine	36.5	36.5	ppb	U
67-72-1	Hexachloroethane	38.5	38.5	ppb	U
98-95-3	Nitrobenzene	42.2	42.2	ppb	U
78-59-1	Isophorone	38.6	38.6	ppb	U
88-75-5	2-Nitrophenol	29.3	29.3	ppb	U
105-67-9	2,4-Dimethylphenol	17.7	17.7	ppb	U
65-85-0	Benzoic acid	29.2	29.2	ppb	U
111-91-1	bis(2-Chloroethoxy)methane	35.4	35.4	ppb	U
120-83-2	2,4-Dichlorophenol	30.7	30.7	ppb	U
120-82-1	1,2,4-Trichlorobenzene	37.2	37.2	ppb	U
91-20-3	Naphthalene	35.4	**9.40**	ppb	J
106-47-8	4-Chloroaniline	38.7	38.7	ppb	U
87-68-3	Hexachlorobutadiene	37.3	37.3	ppb	U
59-50-7	4-Chloro-3-methylphenol	30.0	30.0	ppb	U
91-57-6	2-Methylnaphthalene	30.2	**15.3**	ppb	J
77-47-4	Hexachlorocyclopentadiene	31.2	31.2	ppb	U
88-06-2	2,4,6-Trichlorophenol	29.6	29.6	ppb	U
95-95-4	2,4,5-Trichlorophenol	28.5	28.5	ppb	U
91-58-7	2-Chloronaphthalene	34.2	34.2	ppb	U
88-74-4	2-Nitroaniline	26.9	26.9	ppb	U
131-11-3	Dimethyl phthalate	32.7	32.7	ppb	U
208-96-8	Acenaphthylene	34.2	34.2	ppb	U
606-20-2	2,6-Dinitrotoluene	30.2	30.2	ppb	U
99-09-2	3-Nitroaniline	28.8	28.8	ppb	U
83-32-9	Acenaphthene	32.3	32.3	ppb	U

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06/07/2001

Semivolatiles by EPA 8270B

Sample: L2619-9...continue
Client Sample ID: SS-9
Matrix: Soil
Remarks:
Analyzed Date: 05/30/2001

Type: Grab

Collected: 05/14/2001 10:55
% Solid: 89.1%

Cas No	Analyte	MDL	Concentration	Units	Q
51-28-5	2,4-Dinitrophenol	34.3	34.3	ppb	U
100-02-7	4-Nitrophenol	22.3	22.3	ppb	U
132-64-9	Dibenzofuran	32.6	32.6	ppb	U
121-14-2	2,4-Dinitrotoluene	28.7	28.7	ppb	U
84-66-2	Diethylphthalate	21.0	**59.1**	ppb	
7005-72-3	4-Chlorophenyl-phenyl ether	33.3	33.3	ppb	U
86-73-7	Fluorene	31.7	**10.8**	ppb	J
100-01-6	4-Nitroaniline	25.2	25.2	ppb	U
534-52-1	4,6-Dinitro-2-methylphenol	31.8	31.8	ppb	U
86-30-6	N-nitrosodiphenylamine	30.0	30.0	ppb	U
101-55-3	4-Bromophenyl-phenylether	30.3	30.3	ppb	U
118-74-1	Hexachlorobenzene	33.3	33.3	ppb	U
87-86-5	Pentachlorophenol	22.6	22.6	ppb	U
85-01-8	Phenanthrene	27.4	**83.1**	ppb	
120-12-7	Anthracene	25.0	**25.1**	ppb	
84-74-2	Di-n-butylphthalate	73.2	**59.9**	ppb	J
206-44-0	Fluoranthene	24.5	**243**	ppb	
129-00-0	Pyrene	24.8	**264**	ppb	
85-68-7	Butylbenzylphthalate	22.4	**27.3**	ppb	
91-94-1	3,3'-Dichlorobenzidine	72.5	72.5	ppb	U
56-55-3	Benzo(a)anthracene	22.6	**121**	ppb	
218-01-9	Chrysene	24.1	**123**	ppb	
117-81-7	bis(2-Ethylhexyl)phthalate	129	**324**	ppb	
117-84-0	Di-n-octylphthalate	101	101	ppb	U
205-99-2	Benzo(b)fluoranthene	78.6	**142**	ppb	
207-08-9	Benzo(k)fluoranthene	118	**120**	ppb	
50-32-8	Benzo(a)pyrene	87.5	**125**	ppb	
193-39-5	Indeno(1,2,3-cd)pyrene	76.5	**54.2**	ppb	J
53-70-3	Dibenzo(a,h)anthracene	76.9	76.9	ppb	U
191-24-2	Benzo(g,h,i)perylene	73.3	73.3	ppb	U

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06/07/2001

Semivolatiles by EPA 8270B

Sample: L2619-10
Client Sample ID: SS-10
Matrix: Soil
Remarks:
Analyzed Date: 05/29/2001

Type: Grab

Collected: 05/14/2001 11:05
% Solid: 83.7%

Cas No	Analyte	MDL	Concentration	Units	Q
108-95-2	Phenol	38.8	38.8	ppb	U
111-44-4	bis(2-Chloroethyl)ether	37.4	37.4	ppb	U
95-57-8	2-Chlorophenol	38.1	38.1	ppb	U
541-73-1	1,3-Dichlorobenzene	40.8	40.8	ppb	U
106-46-7	1,4-Dichlorobenzene	39.7	39.7	ppb	U
100-51-6	Benzyl alcohol	33.6	33.6	ppb	U
95-50-1	1,2-Dichlorobenzene	40.1	40.1	ppb	U
95-48-7	2-Methylphenol	33.1	33.1	ppb	U
108-60-1	bis(2-Chloroisopropyl)ether	43.2	43.2	ppb	U
106-44-5	3,4-Methylphenol	32.0	32.0	ppb	U
621-64-7	N-Nitroso-di-n-propylamine	38.9	38.9	ppb	U
67-72-1	Hexachloroethane	41.0	41.0	ppb	U
98-95-3	Nitrobenzene	44.9	44.9	ppb	U
78-59-1	Isophorone	41.1	41.1	ppb	U
88-75-5	2-Nitrophenol	31.2	31.2	ppb	U
105-67-9	2,4-Dimethylphenol	18.9	18.9	ppb	U
65-85-0	Benzoic acid	31.1	31.1	ppb	U
111-91-1	bis(2-Chloroethoxy)methane	37.7	37.7	ppb	U
120-83-2	2,4-Dichlorophenol	32.7	32.7	ppb	U
120-82-1	1,2,4-Trichlorobenzene	39.6	39.6	ppb	U
91-20-3	Naphthalene	37.6	37.6	ppb	U
106-47-8	4-Chloroaniline	41.2	41.2	ppb	U
87-68-3	Hexachlorobutadiene	39.7	39.7	ppb	U
59-50-7	4-Chloro-3-methylphenol	31.9	31.9	ppb	U
91-57-6	2-Methylnaphthalene	32.1	32.1	ppb	U
77-47-4	Hexachlorocyclopentadiene	33.2	33.2	ppb	U
88-06-2	2,4,6-Trichlorophenol	31.5	31.5	ppb	U
95-95-4	2,4,5-Trichlorophenol	30.4	30.4	ppb	U
91-58-7	2-Chloronaphthalene	36.4	36.4	ppb	U
88-74-4	2-Nitroaniline	28.6	28.6	ppb	U
131-11-3	Dimethyl phthalate	34.8	34.8	ppb	U
208-96-8	Acenaphthylene	36.4	36.4	ppb	U
606-20-2	2,6-Dinitrotoluene	32.1	32.1	ppb	U
99-09-2	3-Nitroaniline	30.7	30.7	ppb	U
83-32-9	Acenaphthene	34.4	34.4	ppb	U

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06/07/2001

Semivolatiles by EPA 8270B

Sample: L2619-10...continue
Client Sample ID: SS-10
Matrix: Soil
Remarks:
Analyzed Date: 05/29/2001

Type: Grab

Collected: 05/14/2001 11 :05
% Solid: 83.7%

Cas No	Analyte	MDL	Concentration	Units	Q
51-28-5	2,4-Dinitrophenol	36.5	36.5	ppb	U
100-02-7	4-Nitrophenol	23.7	23.7	ppb	U
132-64-9	Dibenzofuran	34.7	34.7	ppb	U
121-14-2	2,4-Dinitrotoluene	30.5	30.5	ppb	U
84-66-2	Diethylphthalate	22.3	22.3	ppb	U
7005-72-3	4-Chlorophenyl-phenyl ether	35.4	35.4	ppb	U
86-73-7	Fluorene	33.8	33.8	ppb	U
100-01-6	4-Nitroaniline	26.8	26.8	ppb	U
534-52-1	4,6-Dinitro-2-methylphenol	33.8	33.8	ppb	U
86-30-6	N-nitrosodiphenylamine	31.9	31.9	ppb	U
101-55-3	4-Bromophenyl-phenylether	32.3	32.3	ppb	U
118-74-1	Hexachlorobenzene	35.4	35.4	ppb	U
87-86-5	Pentachlorophenol	24.0	24.0	ppb	U
85-01-8	Phenanthrene	29.1	**72.9**	ppb	
120-12-7	Anthracene	26.6	**19.5**	ppb	J
84-74-2	Di-n-butylphthalate	78.0	78.0	ppb	U
206-44-0	Fluoranthene	26.1	**80.4**	ppb	
129-00-0	Pyrene	26.4	**72.9**	ppb	
85-68-7	Butylbenzylphthalate	23.8	23.8	ppb	U
91-94-1	3,3'-Dichlorobenzidine	77.2	77.2	ppb	U
56-55-3	Benzo(a)anthracene	24.1	**39.8**	ppb	
218-01-9	Chrysene	25.6	**39.8**	ppb	
117-81-7	bis(2-Ethylhexyl)phthalate	137	**22.7**	ppb	J
117-84-0	Di-n-octylphthalate	21.4	21.4	ppb	U
205-99-2	Benzo(b)fluoranthene	16.7	**30.7**	ppb	
207-08-9	Benzo(k)fluoranthene	25.0	**34.2**	ppb	
50-32-8	Benzo(a)pyrene	18.6	**33.9**	ppb	
193-39-5	Indeno(1,2,3-cd)pyrene	16.3	16.3	ppb	U
53-70-3	Dibenzo(a,h)anthracene	16.4	16.4	ppb	U
191-24-2	Benzo(g,h,i)perylene	15.6	15.6	ppb	U

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06/07/2001

Semivolatiles by EPA 8270B

Sample: L2619-11
Client Sample ID: SS-8
Matrix: Soil
Remarks:
Analyzed Date: 05/31/2001

Type: Grab

Collected: 05/14/2001 11:15
% Solid: 93.3%

Cas No	Analyte	MDL	Concentration	Units	Q
108-95-2	Phenol	34.8	34.8	ppb	U
111-44-4	bis(2-Chloroethyl)ether	33.6	33.6	ppb	U
95-57-8	2-Chlorophenol	34.2	34.2	ppb	U
541-73-1	1,3-Dichlorobenzene	36.6	36.6	ppb	U
106-46-7	1,4-Dichlorobenzene	35.6	35.6	ppb	U
100-51-6	Benzyl alcohol	30.2	30.2	ppb	U
95-50-1	1,2-Dichlorobenzene	35.9	35.9	ppb	U
95-48-7	2-Methylphenol	29.7	29.7	ppb	U
108-60-1	bis(2-Chloroisopropyl)ether	38.7	38.7	ppb	U
106-44-5	3,4-Methylphenol	28.7	28.7	ppb	U
621-64-7	N-Nitroso-di-n-propylamine	34.9	34.9	ppb	U
67-72-1	Hexachloroethane	36.8	36.8	ppb	U
98-95-3	Nitrobenzene	40.3	40.3	ppb	U
78-59-1	Isophorone	36.8	36.8	ppb	U
88-75-5	2-Nitrophenol	28.0	28.0	ppb	U
105-67-9	2,4-Dimethylphenol	16.9	16.9	ppb	U
65-85-0	Benzoic acid	27.9	27.9	ppb	U
111-91-1	bis(2-Chloroethoxy)methane	33.8	33.8	ppb	U
120-83-2	2,4-Dichlorophenol	29.3	29.3	ppb	U
120-82-1	1,2,4-Trichlorobenzene	35.5	35.5	ppb	U
91-20-3	Naphthalene	33.8	10.7	ppb	J
106-47-8	4-Chloroaniline	36.9	36.9	ppb	U
87-68-3	Hexachlorobutadiene	35.6	35.6	ppb	U
59-50-7	4-Chloro-3-methylphenol	28.7	28.7	ppb	U
91-57-6	2-Methylnaphthalene	28.8	28.8	ppb	U
77-47-4	Hexachlorocyclopentadiene	29.8	29.8	ppb	U
88-06-2	2,4,6-Trichlorophenol	28.3	28.3	ppb	U
95-95-4	2,4,5-Trichlorophenol	27.3	27.3	ppb	U
91-58-7	2-Chloronaphthalene	32.6	32.6	ppb	U
88-74-4	2-Nitroaniline	25.7	25.7	ppb	U
131-11-3	Dimethyl phthalate	31.2	31.2	ppb	U
208-96-8	Acenaphthylene	32.6	32.6	ppb	U
606-20-2	2,6-Dinitrotoluene	28.8	28.8	ppb	U
99-09-2	3-Nitroaniline	27.5	27.5	ppb	U
83-32-9	Acenaphthene	30.8	19.3	ppb	J

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06/07/2001

Semivolatiles by EPA 8270B

Sample: L2619-11...continue

Client Sample ID: SS-8 Collected: 05/14/2001 11:15

Matrix: Soil Type: Grab % Solid: 93.3%

Remarks:

Analyzed Date: 05/31/2001

Cas No	Analyte	MDL	Concentration	Units	Q
51-28-5	2,4-Dinitrophenol	32.8	32.8	ppb	U
100-02-7	4-Nitrophenol	21.3	21.3	ppb	U
132-64-9	Dibenzofuran	31.2	**9.30**	ppb	J
121-14-2	2,4-Dinitrotoluene	27.4	27.4	ppb	U
84-66-2	Diethylphthalate	20.0	20.0	ppb	U
7005-72-3	4-Chlorophenyl-phenyl ether	31.8	31.8	ppb	U
86-73-7	Fluorene	30.3	**17.5**	ppb	J
100-01-6	4-Nitroaniline	24.1	24.1	ppb	U
534-52-1	4,6-Dinitro-2-methylphenol	30.3	30.3	ppb	U
86-30-6	N-nitrosodiphenylamine	28.6	28.6	ppb	U
101-55-3	4-Bromophenyl-phenylether	29.0	29.0	ppb	U
118-74-1	Hexachlorobenzene	31.8	31.8	ppb	U
87-86-5	Pentachlorophenol	21.5	21.5	ppb	U
85-01-8	Phenanthrene	26.2	**178**	ppb	
120-12-7	Anthracene	23.9	**60.0**	ppb	
84-74-2	Di-n-butylphthalate	70.0	70.0	ppb	U
206-44-0	Fluoranthene	23.4	**441**	ppb	
129-00-0	Pyrene	23.7	**433**	ppb	
85-68-7	Butylbenzylphthalate	21.4	**12.9**	ppb	J
91-94-1	3,3'-Dichlorobenzidine	69.3	69.3	ppb	U
56-55-3	Benzo(a)anthracene	21.6	**217**	ppb	
218-01-9	Chrysene	23.0	**215**	ppb	
117-81-7	bis(2-Ethylhexyl)phthalate	123	**33.6**	ppb	J
117-84-0	Di-n-octylphthalate	19.2	19.2	ppb	U
205-99-2	Benzo(b)fluoranthene	15.0	**222**	ppb	
207-08-9	Benzo(k)fluoranthene	22.5	**224**	ppb	
50-32-8	Benzo(a)pyrene	16.7	**229**	ppb	
193-39-5	Indeno(1,2,3-cd)pyrene	14.6	14.6	ppb	U
53-70-3	Dibenzo(a,h)anthracene	14.7	14.7	ppb	U
191-24-2	Benzo(g,h,i)perylene	14.0	**71.8**	ppb	

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06/07/2001

Semivolatiles by EPA 8270B

Sample: L2619-12
Client Sample ID: SS-12
Matrix: Soil
Remarks:
Analyzed Date: 05/29/2001

Type: Grab

Collected: 05/14/2001 11 :35
% Solid: 94.8%

Cas No	Analyte	MDL	Concentration	Units	Q
108-95-2	Phenol	34.3	34.3	ppb	U
111-44-4	bis(2-Chloroethyl)ether	33.0	33.0	ppb	U
95-57-8	2-Chlorophenol	33.7	33.7	ppb	U
541-73-1	1,3-Dichlorobenzene	36.0	36.0	ppb	U
106-46-7	1,4-Dichlorobenzene	35.0	35.0	ppb	U
100-51-6	Benzyl alcohol	29.7	29.7	ppb	U
95-50-1	1,2-Dichlorobenzene	35.4	35.4	ppb	U
95-48-7	2-Methylphenol	29.2	29.2	ppb	U
108-60-1	bis(2-Chloroisopropyl)ether	38.1	38.1	ppb	U
106-44-5	3,4-Methylphenol	28.3	28.3	ppb	U
621-64-7	N-Nitroso-di-n-propylamine	34.4	34.4	ppb	U
67-72-1	Hexachloroethane	36.2	36.2	ppb	U
98-95-3	Nitrobenzene	39.7	39.7	ppb	U
78-59-1	Isophorone	36.2	36.2	ppb	U
88-75-5	2-Nitrophenol	27.6	27.6	ppb	U
105-67-9	2,4-Dimethylphenol	16.7	16.7	ppb	U
65-85-0	Benzoic acid	27.5	27.5	ppb	U
111-91-1	bis(2-Chloroethoxy)methane	33.3	33.3	ppb	U
120-83-2	2,4-Dichlorophenol	28.9	28.9	ppb	U
120-82-1	1,2,4-Trichlorobenzene	34.9	34.9	ppb	U
91-20-3	Naphthalene	33.2	33.2	ppb	U
106-47-8	4-Chloroaniline	36.4	36.4	ppb	U
87-68-3	Hexachlorobutadiene	35.0	35.0	ppb	U
59-50-7	4-Chloro-3-methylphenol	28.2	28.2	ppb	U
91-57-6	2-Methylnaphthalene	28.3	28.3	ppb	U
77-47-4	Hexachlorocyclopentadiene	29.3	29.3	ppb	U
88-06-2	2,4,6-Trichlorophenol	27.8	27.8	ppb	U
95-95-4	2,4,5-Trichlorophenol	26.8	26.8	ppb	U
91-58-7	2-Chloronaphthalene	32.1	32.1	ppb	U
88-74-4	2-Nitroaniline	25.2	25.2	ppb	U
131-11-3	Dimethyl phthalate	30.7	30.7	ppb	U
208-96-8	Acenaphthylene	32.1	32.1	ppb	U
606-20-2	2,6-Dinitrotoluene	28.4	28.4	ppb	U
99-09-2	3-Nitroaniline	27.1	27.1	ppb	U
83-32-9	Acenaphthene	30.3	10.5	ppb	J

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06/07/2001

Semivolatiles by EPA 8270B

Sample: L2619-12...continue
Client Sample ID: SS-12
Matrix: Soil
Remarks:
Analyzed Date: 05/29/2001

Type: Grab

Collected: 05/14/2001 11:35
% Solid: 94.8%

Cas No	Analyte	MDL	Concentration	Units	Q
51-28-5	2,4-Dinitrophenol	32.2	32.2	ppb	U
100-02-7	4-Nitrophenol	21.0	21.0	ppb	U
132-64-9	Dibenzofuran	30.7	30.7	ppb	U
121-14-2	2,4-Dinitrotoluene	26.9	26.9	ppb	U
84-66-2	Diethylphthalate	19.7	19.7	ppb	U
7005-72-3	4-Chlorophenyl-phenyl ether	31.3	31.3	ppb	U
86-73-7	Fluorene	29.8	9.90	ppb	J
100-01-6	4-Nitroaniline	23.7	23.7	ppb	U
534-52-1	4,6-Dinitro-2-methylphenol	29.9	29.9	ppb	U
86-30-6	N-nitrosodiphenylamine	28.2	28.2	ppb	U
101-55-3	4-Bromophenyl-phenylether	28.5	28.5	ppb	U
118-74-1	Hexachlorobenzene	31.3	31.3	ppb	U
87-86-5	Pentachlorophenol	21.2	21.2	ppb	U
85-01-8	Phenanthrene	25.7	111	ppb	
120-12-7	Anthracene	23.5	28.8	ppb	
84-74-2	Di-n-butylphthalate	68.8	68.8	ppb	U
206-44-0	Fluoranthene	23.0	254	ppb	
129-00-0	Pyrene	23.3	222	ppb	
85-68-7	Butylbenzylphthalate	21.0	80.2	ppb	
91-94-1	3,3'-Dichlorobenzidine	68.2	68.2	ppb	U
56-55-3	Benzo(a)anthracene	21.2	128	ppb	
218-01-9	Chrysene	22.6	144	ppb	
117-81-7	bis(2-Ethylhexyl)phthalate	121	608	ppb	
117-84-0	Di-n-octylphthalate	18.9	18.9	ppb	U
205-99-2	Benzo(b)fluoranthene	14.8	119	ppb	
207-08-9	Benzo(k)fluoranthene	22.1	134	ppb	
50-32-8	Benzo(a)pyrene	16.5	127	ppb	
193-39-5	Indeno(1,2,3-cd)pyrene	14.4	14.4	ppb	U
53-70-3	Dibenzo(a,h)anthracene	14.5	14.5	ppb	U
191-24-2	Benzo(g,h,i)perylene	13.8	13.8	ppb	U

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06/07/2001

Semivolatiles by EPA 8270B

Sample: L2619-13...continue
Client Sample ID: SS-13
Matrix: Soil
Remarks:
Analyzed Date: 05/31/2001

Type: Grab

Collected: 05/14/2001 12:20
% Solid: 94.5%

Cas No	Analyte	MDL	Concentration	Units	Q
51-28-5	2,4-Dinitrophenol	102	102	ppb	U
100-02-7	4-Nitrophenol	230	230	ppb	U
132-64-9	Dibenzofuran	149	106	ppb	J
121-14-2	2,4-Dinitrotoluene	98.1	98.1	ppb	U
84-66-2	Diethylphthalate	94.9	94.9	ppb	U
7005-72-3	4-Chlorophenyl-phenyl ether	171	171	ppb	U
86-73-7	Fluorene	155	272	ppb	
100-01-6	4-Nitroaniline	79.7	79.7	ppb	U
534-52-1	4,6-Dinitro-2-methylphenol	135	135	ppb	U
86-30-6	N-nitrosodiphenylamine	142	142	ppb	U
101-55-3	4-Bromophenyl-phenylether	129	129	ppb	U
118-74-1	Hexachlorobenzene	127	127	ppb	U
87-86-5	Pentachlorophenol	86.1	86.1	ppb	U
85-01-8	Phenanthrene	124	2670	ppb	
120-12-7	Anthracene	127	646	ppb	
84-74-2	Di-n-butylphthalate	381	79.4	ppb	J
206-44-0	Fluoranthene	112	4820	ppb	
129-00-0	Pyrene	92.8	4410	ppb	
85-68-7	Butylbenzylphthalate	84.3	1860	ppb	
91-94-1	3,3'-Dichlorobenzidine	146	146	ppb	U
56-55-3	Benzo(a)anthracene	88.5	2550	ppb	
218-01-9	Chrysene	88.2	2920	ppb	
117-81-7	bis(2-Ethylhexyl)phthalate	574	2230	ppb	
117-84-0	Di-n-octylphthalate	109	54.7	ppb	J
205-99-2	Benzo(b)fluoranthene	145	3780	ppb	
207-08-9	Benzo(k)fluoranthene	117	2770	ppb	
50-32-8	Benzo(a)pyrene	95.9	2600	ppb	
193-39-5	Indeno(1,2,3-cd)pyrene	112	1080	ppb	
53-70-3	Dibenzo(a,h)anthracene	105	249	ppb	
191-24-2	Benzo(g,h,i)perylene	93.5	1160	ppb	

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06/07/2001

Semivolatiles by EPA 8270B

Sample: L2619-14
Client Sample ID: SS-14
Matrix: Soil
Remarks:
Analyzed Date: 05/31/2001

Type: Grab

Collected: 05/14/2001 11:55
% Solid: 86.3%

Cas No	Analyte	MDL	Concentration	Units	Q
108-95-2	Phenol	188	188	ppb	U
111-44-4	bis(2-Chloroethyl)ether	181	181	ppb	U
95-57-8	2-Chlorophenol	185	185	ppb	U
541-73-1	1,3-Dichlorobenzene	198	198	ppb	U
106-46-7	1,4-Dichlorobenzene	192	192	ppb	U
100-51-6	Benzyl alcohol	163	163	ppb	U
95-50-1	1,2-Dichlorobenzene	194	194	ppb	U
95-48-7	2-Methylphenol	160	160	ppb	U
108-60-1	bis(2-Chloroisopropyl)ether	209	209	ppb	U
106-44-5	3,4-Methylphenol	155	155	ppb	U
621-64-7	N-Nitroso-di-n-propylamine	189	189	ppb	U
67-72-1	Hexachloroethane	199	199	ppb	U
98-95-3	Nitrobenzene	218	218	ppb	U
78-59-1	Isophorone	199	199	ppb	U
88-75-5	2-Nitrophenol	151	151	ppb	U
105-67-9	2,4-Dimethylphenol	91.5	91.5	ppb	U
65-85-0	Benzoic acid	151	151	ppb	U
111-91-1	bis(2-Chloroethoxy)methane	183	183	ppb	U
120-83-2	2,4-Dichlorophenol	159	159	ppb	U
120-82-1	1,2,4-Trichlorobenzene	192	192	ppb	U
91-20-3	Naphthalene	182	182	ppb	U
106-47-8	4-Chloroaniline	200	200	ppb	U
87-68-3	Hexachlorobutadiene	192	192	ppb	U
59-50-7	4-Chloro-3-methylphenol	155	155	ppb	U
91-57-6	2-Methylnaphthalene	156	156	ppb	U
77-47-4	Hexachlorocyclopentadiene	161	161	ppb	U
88-06-2	2,4,6-Trichlorophenol	153	153	ppb	U
95-95-4	2,4,5-Trichlorophenol	147	147	ppb	U
91-58-7	2-Chloronaphthalene	176	176	ppb	U
88-74-4	2-Nitroaniline	139	139	ppb	U
131-11-3	Dimethyl phthalate	169	169	ppb	U
208-96-8	Acenaphthylene	176	176	ppb	U
606-20-2	2,6-Dinitrotoluene	156	156	ppb	U
99-09-2	3-Nitroaniline	149	149	ppb	U
83-32-9	Acenaphthene	167	167	ppb	U

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06/07/2001

Semivolatiles by EPA 8270B

Sample: L2619-14...continue

Client Sample ID: SS-14

Matrix: Soil

Type: Grab

Collected: 05/14/2001 11:55

% Solid: 86.3%

Remarks:

Analyzed Date: 05/31/2001

Cas No	Analyte	MDL	Concentration	Units	Q
51-28-5	2,4-Dinitrophenol	177	177	ppb	U
100-02-7	4-Nitrophenol	115	115	ppb	U
132-64-9	Dibenzofuran	168	168	ppb	U
121-14-2	2,4-Dinitrotoluene	148	148	ppb	U
84-66-2	Diethylphthalate	108	108	ppb	U
7005-72-3	4-Chlorophenyl-phenyl ether	172	172	ppb	U
86-73-7	Fluorene	164	164	ppb	U
100-01-6	4-Nitroaniline	130	130	ppb	U
534-52-1	4,6-Dinitro-2-methylphenol	164	164	ppb	U
86-30-6	N-nitrosodiphenylamine	155	155	ppb	U
101-55-3	4-Bromophenyl-phenylether	157	157	ppb	U
118-74-1	Hexachlorobenzene	172	172	ppb	U
87-86-5	Pentachlorophenol	116	116	ppb	U
85-01-8	Phenanthrene	141	**151**	ppb	
120-12-7	Anthracene	129	**67.6**	ppb	J
84-74-2	Di-n-butylphthalate	378	378	ppb	U
206-44-0	Fluoranthene	126	**297**	ppb	
129-00-0	Pyrene	128	**270**	ppb	
85-68-7	Butylbenzylphthalate	115	115	ppb	U
91-94-1	3,3'-Dichlorobenzidine	374	374	ppb	U
56-55-3	Benzo(a)anthracene	117	**122**	ppb	
218-01-9	Chrysene	124	**135**	ppb	
117-81-7	bis(2-Ethylhexyl)phthalate	667	**211**	ppb	J
117-84-0	Di-n-octylphthalate	104	104	ppb	U
205-99-2	Benzo(b)fluoranthene	81.1	**120**	ppb	
207-08-9	Benzo(k)fluoranthene	121	**104**	ppb	J
50-32-8	Benzo(a)pyrene	90.4	**129**	ppb	
193-39-5	Indeno(1,2,3-cd)pyrene	79.0	79.0	ppb	U
53-70-3	Dibenzo(a,h)anthracene	79.4	79.4	ppb	U
191-24-2	Benzo(g,h,i)perylene	75.7	75.7	ppb	U

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06/07/2001

Semivolatiles by EPA 8270B

Sample: L2619-15...continue
Client Sample ID: SS-15
Matrix: Soil
Remarks:
Analyzed Date: 05/30/2001

Type: Grab

Collected: 05/14/2001 13:00
% Solid: 96.4%

Cas No	Analyte	MDL	Concentration	Units	Q
51-28-5	2,4-Dinitrophenol	31.7	31.7	ppb	U
100-02-7	4-Nitrophenol	20.6	20.6	ppb	U
132-64-9	Dibenzofuran	30.2	9.30	ppb	J
121-14-2	2,4-Dinitrotoluene	26.5	26.5	ppb	U
84-66-2	Diethylphthalate	19.4	19.4	ppb	U
7005-72-3	4-Chlorophenyl-phenyl ether	30.7	30.7	ppb	U
86-73-7	Fluorene	29.3	18.0	ppb	J
100-01-6	4-Nitroaniline	23.3	23.3	ppb	U
534-52-1	4,6-Dinitro-2-methylphenol	29.4	29.4	ppb	U
86-30-6	N-nitrosodiphenylamine	27.7	27.7	ppb	U
101-55-3	4-Bromophenyl-phenylether	28.0	28.0	ppb	U
118-74-1	Hexachlorobenzene	30.8	30.8	ppb	U
87-86-5	Pentachlorophenol	20.9	20.9	ppb	U
85-01-8	Phenanthrene	25.3	247	ppb	
120-12-7	Anthracene	23.1	68.1	ppb	
84-74-2	Di-n-butylphthalate	67.7	19.4	ppb	J
206-44-0	Fluoranthene	22.6	527	ppb	
129-00-0	Pyrene	22.9	591	ppb	
85-68-7	Butylbenzylphthalate	20.7	271	ppb	
91-94-1	3,3'-Dichlorobenzidine	67.1	67.1	ppb	U
56-55-3	Benzo(a)anthracene	20.9	276	ppb	
218-01-9	Chrysene	22.3	328	ppb	
117-81-7	bis(2-Ethylhexyl)phthalate	119	430	ppb	
117-84-0	Di-n-octylphthalate	93.0	93.0	ppb	U
205-99-2	Benzo(b)fluoranthene	72.6	328	ppb	
207-08-9	Benzo(k)fluoranthene	109	109	ppb	U
50-32-8	Benzo(a)pyrene	80.9	80.9	ppb	U
193-39-5	Indeno(1,2,3-cd)pyrene	70.7	157	ppb	
53-70-3	Dibenzo(a,h)anthracene	71.1	71.1	ppb	U
191-24-2	Benzo(g,h,i)perylene	67.8	67.8	ppb	U

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06/07/2001

Mercury, Total

Sample: L2619-1
Client Sample ID: SS-1
Matrix: Soil
Remarks:
Analyzed Date: 05/21/2001

Type: Grab

Collected: 05/14/2001 09:05
% Solid: 92%

Cas No	Analyte	MDL	Concentration	Units	Q
7439-97-6	Mercury	0.0095	0.057	ppm	

Sample: L2619-6
Client Sample ID: SS-6
Matrix: Soil
Remarks:
Analyzed Date: 05/21/2001

Type: Grab

Collected: 05/14/2001 10:15
% Solid: 80%

Cas No	Analyte	MDL	Concentration	Units	Q
7439-97-6	Mercury	0.011	0.013	ppm	

Sample: L2619-8
Client Sample ID: SS-11
Matrix: Soil
Remarks:
Analyzed Date: 05/21/2001

Type: Grab

Collected: 05/14/2001 10:45
% Solid: 92.4%

Cas No	Analyte	MDL	Concentration	Units	Q
7439-97-6	Mercury	0.0095	0.094	ppm	

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06/07/2001

RCRA Metals

Sample: L2619-1
Client Sample ID: SS-1
Matrix: Soil
Remarks:
Analyzed Date: 06/06/2001

Type: Grab

Collected: 05/14/2001 09:05
% Solid: 92%

Cas No	Analyte	MDL	Concentration	Units	Q
7440-38-2	Arsenic	0.26	**3.84**	ppm	
7440-39-3	Barium	0.065	**23.1**	ppm	
7440-43-9	Cadmium	0.065	**0.11**	ppm	
7440-47-3	Chromium	0.12	**8.48**	ppm	
7439-92-1	Lead	0.12	**11.3**	ppm	
7782-49-2	Selenium	0.26	0.26	ppm	U
7440-22-4	Silver	0.082	0.082	ppm	U

Sample: L2619-6
Client Sample ID: SS-6
Matrix: Soil
Remarks:
Analyzed Date: 06/06/2001

Type: Grab

Collected: 05/14/2001 10:15
% Solid: 80%

Cas No	Analyte	MDL	Concentration	Units	Q
7440-38-2	Arsenic	0.30	**0.41**	ppm	
7440-39-3	Barium	0.075	**18.4**	ppm	
7440-43-9	Cadmium	0.075	**0.069**	ppm	J
7440-47-3	Chromium	0.14	**10.1**	ppm	
7439-92-1	Lead	0.14	**28.5**	ppm	
7782-49-2	Selenium	0.29	0.29	ppm	U
7440-22-4	Silver	0.094	0.094	ppm	U

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06/07/2001

RCRA Metals

Sample: L2619-8
Client Sample ID: SS-11
Matrix: Soil
Remarks:
Analyzed Date: 06/06/2001

Type: Grab

Collected: 05/14/2001 10:45
% Solid: 92.4%

Cas No	Analyte	MDL	Concentration	Units	Q
7440-38-2	Arsenic	0.26	**0.35**	ppm	
7440-39-3	Barium	0.065	**43.7**	ppm	
7440-43-9	Cadmium	0.065	**0.16**	ppm	
7440-47-3	Chromium	0.12	**6.23**	ppm	
7439-92-1	Lead	0.12	**29.2**	ppm	
7782-49-2	Selenium	0.25	0.25	ppm	U
7440-22-4	Silver	0.081	0.081	ppm	U

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06/07/2001

The following compounds were calibrated at 25, 50, 100, 150 and 200 ppb levels in the initial calibration curve:

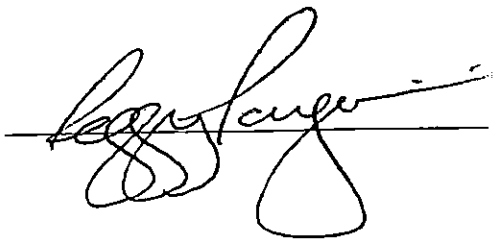
Acetone
2-Butanone
4-Methyl-2-pentanone
2-Hexanone

M&P-Xylenes were calibrated at 10, 40, 100, 200 and 300 ppb levels.

All other compounds were calibrated at 5, 20, 50, 100 and 150 ppb levels.

Samples were quantitated using the continuing calibration standard response factor as opposed to the initial calibration average response factor.
Blank associated with the Custody L2619 contained 1.08ppb of Methylene Chloride.
Samples L2619-1,2,5,7,8 were analyzed twice with both sets of data indicating a poor recovery of Internal Standards and Surrogates. Matrix interference was proven.

Semivolatiles:
Samples L2619-1,-5,-6,-7,-9 and -15 were analyzed with results indicating a poor recovery of Internal Standards Chrysene-d12 and/or Perylene-d12. These samples were re-analyzed at a 1:5 dilution due to heavy amounts of non-target compounds present.
All Internal Standard recoveries were within acceptable limits in the re-analyses.
For reporting purposes, the straight runs were reported except for those compounds associated with the low recovering Internal Standard. For those compounds, the 1:5 re-analysis result was reported.
Samples L2619-13 and -14 were analyzed at a five-fold dilution. Due to high concentrations of non-target compounds present in the samples, re-analysis at a lower dilution was not possible.

Reviewed by: 

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06/07/2001

ORGANIC METHOD QUALIFIERS

Q - Qualifier - specified entries and their meanings are as follows:

U - The analytical result is a non-detect.

J - Indicates an estimated value. The concentration reported was detected below the Method Detection Limit.

B - The analyte was found in the associated method blank as well as the sample. It indicates possible/probable blank contamination and warns the data user to take appropriate action.

E - The concentration of the analyte exceeded the calibration range of the instrument.

D - This flag identifies all compounds identified in an analysis at a secondary dilution.

INORGANIC METHOD QUALIFIERS

C - (Concentration) qualifiers are as follows:

B - Entered if the reported value was obtained from a reading that was less than the Contract Required Detection Limit (CRDL) but greater than or equal to the Instrument Detection Limit (IDL).

U - Entered when the analyte was analyzed for, but not detected.

J - Indicates an estimated value. The concentration reported was detected below the Method Detection Limit.

Q - Qualifier specific entries and their meanings are as follows:

E - Reported value is estimated because of the presence of interferences.

M - (Method) qualifiers are as follows:

A - Flame AA

AS - Semi-automated Spectrophotometric

AV - Automated Cold Vapor AA

C - Manual Spectrophotometric

F - Furnace AA

NR - when the analyte is not required to be analyzed.

P - ICP

T - Titrimetric

Environmental Testing Laboratories, Inc.

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rec 6-25-01

06/07/2001

Custody Document: K4864

Received: 05/14/2001 17:18
Sampled by: Scott Horsnall

Client: Blue Waters (11260)

1610 New Highway
Farmingdale,
NY 11735

Project: Island Park

Washington Avenue
Island Park,
NY

Manager: Tom Spatafora

Respectfully submitted,

Laboratory Manager

NYS Lab ID # 10969
NJ Cert. # 73812
CT Cert. # PH0645
MA Cert. # NY061
PA Cert. # 68-535
VA Cert. # 108
NH Cert. # 252592-BA
RI Cert. # 161

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06/07/2001

Volatiles by EPA 8021B

Sample: K4864-1
Client Sample ID: SS-16
Matrix: Soil
Remarks: See Case Narrative
Analyzed Date: 05/18/2001

Type: Grab

Collected: 05/14/2001 13: 15
% Solid: 84%

Cas No	Analyte	MDL	Concentration	Units	Q
75-71-8	Dichlorodifluoromethane	1.00	1.00	ppb	U
74-87-3	Chloromethane	0.86	0.86	ppb	U
75-01-4	Vinyl Chloride	0.48	0.48	ppb	U
74-83-9	Bromomethane	0.40	0.40	ppb	U
75-00-3	Chloroethane	0.79	0.79	ppb	U
75-69-4	Trichlorofluoromethane	0.62	0.62	ppb	U
75-35-4	1,1-Dichloroethene	0.76	0.76	ppb	U
75-09-2	Methylene Chloride	0.52	0.52	ppb	U
156-60-5	t-1,2-Dichloroethene	0.36	0.36	ppb	U
75-34-3	1,1-Dichloroethane	0.36	0.36	ppb	U
590-20-7	2,2-Dichloropropane	0.57	0.57	ppb	U
156-59-2	c-1,2-Dichloroethene	0.40	0.40	ppb	U
67-66-3	Chloroform	0.38	0.38	ppb	U
74-97-5	Bromochloromethane	0.40	0.40	ppb	U
71-55-6	1,1,1-Trichloroethane	0.33	0.33	ppb	U
563-58-6	1,1-Dichloropropene	1.05	1.05	ppb	U
56-23-5	Carbon Tetrachloride	0.50	0.50	ppb	U
107-06-2	1,2-Dichloroethane	0.52	0.52	ppb	U
71-43-2	Benzene	0.33	0.33	ppb	U
79-01-6	Trichloroethene	0.48	0.48	ppb	U
78-87-5	1,2-Dichloropropane	0.33	0.33	ppb	U
75-27-4	Bromodichloromethane	0.43	0.43	ppb	U
74-95-3	Dibromomethane	0.74	0.74	ppb	U
10061-01-5	c-1,3-Dichloropropene	0.43	0.43	ppb	U
108-88-3	Toluene	0.48	0.48	ppb	U
10061-02-6	t-1,3-Dichloropropene	0.52	0.52	ppb	U
79-00-5	1,1,2-Trichloroethane	0.45	0.45	ppb	U
142-28-9	1,3-Dichloropropane	0.90	0.90	ppb	U
127-18-4	Tetrachloroethene	0.43	0.43	ppb	U
124-48-1	Dibromochloromethane	0.57	0.57	ppb	U
106-93-4	1,2-Dibromoethane	0.57	0.57	ppb	U
108-90-7	Chlorobenzene	0.31	0.31	ppb	U
630-20-6	1,1,1,2-Tetrachloroethane	0.40	0.40	ppb	U
100-41-4	Ethylbenzene	0.26	0.26	ppb	U
108-38-3	m,p-xylene	0.60	0.60	ppb	U

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06/07/2001

Volatiles by EPA 8021B

Sample: K4864-1...continue
Client Sample ID: SS-16
Matrix: Soil
Remarks: See Case Narrative
Analyzed Date: 05/18/2001

Type: Grab

Collected: 05/14/2001 13:15
% Solid: 84%

Cas No	Analyte	MDL	Concentration	Units	Q
95-47-6	o-xylene	0.43	0.43	ppb	U
100-42-5	Styrene	0.43	0.43	ppb	U
98-82-8	Isopropylbenzene	0.24	**2.80**	ppb	
75-25-2	Bromoform	0.57	0.57	ppb	U
79-34-5	1,1,2,2-Tetrachloroethane	0.48	0.48	ppb	U
96-18-4	1,2,3-Trichloropropane	1.21	1.21	ppb	U
103-65-1	n-Propylbenzene	0.33	**5.20**	ppb	
108-86-1	Bromobenzene	0.40	0.40	ppb	U
108-67-8	1,3,5-Trimethylbenzene	0.24	0.24	ppb	U
95-49-8	2-Chlorotoluene	0.19	0.19	ppb	U
106-43-4	4-Chlorotoluene	0.33	0.33	ppb	U
98-06-6	tert-Butylbenzene	0.36	0.36	ppb	U
95-63-6	1,2,4-Trimethylbenzene	0.48	**11.8**	ppb	
135-98-8	sec-Butylbenzene	0.29	**7.30**	ppb	
99-87-6	4-Isopropyltoluene	0.43	**2.30**	ppb	
541-73-1	1,3-Dichlorobenzene	0.43	0.43	ppb	U
106-46-7	1,4-Dichlorobenzene	0.52	0.52	ppb	U
95-50-1	1,2-Dichlorobenzene	0.31	0.31	ppb	U
104-51-8	n-Butylbenzene	0.33	**3.30**	ppb	
96-12-8	1,2-Dibromo-3-chloropropane	1.59	1.59	ppb	U
120-82-1	1,2,4-Trichlorobenzene	0.90	0.90	ppb	U
87-68-3	Hexachlorobutadiene	0.33	0.33	ppb	U
91-20-3	Naphthalene	1.71	**9.00**	ppb	
87-61-6	1,2,3-Trichlorobenzene	0.88	0.88	ppb	U

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06/07/2001

Volatiles by EPA 8021B

Sample: K4864-2
Client Sample ID: SS-17
Matrix: Soil
Remarks: See Case Narrative
Analyzed Date: 05/17/2001

Type: Grab

Collected: 05/14/2001 13:25
% Solid: 81.7%

Cas No	Analyte	MDL	Concentration	Units	Q
75-71-8	Dichlorodifluoromethane	0.51	0.51	ppb	U
74-87-3	Chloromethane	0.44	0.44	ppb	U
75-01-4	Vinyl Chloride	0.24	0.24	ppb	U
74-83-9	Bromomethane	0.21	0.21	ppb	U
75-00-3	Chloroethane	0.40	0.40	ppb	U
75-69-4	Trichlorofluoromethane	0.32	0.32	ppb	U
75-35-4	1,1-Dichloroethene	0.39	0.39	ppb	U
75-09-2	Methylene Chloride	0.27	0.27	ppb	U
156-60-5	t-1,2-Dichloroethene	0.18	0.18	ppb	U
75-34-3	1,1-Dichloroethane	0.18	0.18	ppb	U
590-20-7	2,2-Dichloropropane	0.29	0.29	ppb	U
156-59-2	c-1,2-Dichloroethene	0.21	0.21	ppb	U
67-66-3	Chloroform	0.20	0.20	ppb	U
74-97-5	Bromochloromethane	0.21	0.21	ppb	U
71-55-6	1,1,1-Trichloroethane	0.17	0.17	ppb	U
563-58-6	1,1-Dichloropropene	0.54	0.54	ppb	U
56-23-5	Carbon Tetrachloride	0.26	0.26	ppb	U
107-06-2	1,2-Dichloroethane	0.27	0.27	ppb	U
71-43-2	Benzene	0.17	0.17	ppb	U
79-01-6	Trichloroethene	0.24	1.10	ppb	
78-87-5	1,2-Dichloropropane	0.17	0.17	ppb	U
75-27-4	Bromodichloromethane	0.22	0.22	ppb	U
74-95-3	Dibromomethane	0.38	0.38	ppb	U
10061-01-5	c-1,3-Dichloropropene	0.22	0.22	ppb	U
108-88-3	Toluene	0.24	0.24	ppb	U
10061-02-6	t-1,3-Dichloropropene	0.27	0.27	ppb	U
79-00-5	1,1,2-Trichloroethane	0.23	0.23	ppb	U
142-28-9	1,3-Dichloropropane	0.46	0.46	ppb	U
127-18-4	Tetrachloroethene	0.22	0.22	ppb	U
124-48-1	Dibromochloromethane	0.29	0.29	ppb	U
106-93-4	1,2-Dibromoethane	0.29	0.29	ppb	U
108-90-7	Chlorobenzene	0.16	0.16	ppb	U
630-20-6	1,1,1,2-Tetrachloroethane	0.21	0.21	ppb	U
100-41-4	Ethylbenzene	0.13	0.13	ppb	U
108-38-3	m,p-xylene	0.31	0.31	ppb	U

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06/07/2001

Volatiles by EPA 8021B

Sample: K4864-2...continue

Client Sample ID: SS-17
Matrix: Soil
Type: Grab
Collected: 05/14/2001 13:25
% Solid: 81.7%
Remarks: See Case Narrative
Analyzed Date: 05/17/2001

Cas No	Analyte	MDL	Concentration	Units	Q
95-47-6	o-xylene	0.22	0.22	ppb	U
100-42-5	Styrene	0.22	0.22	ppb	U
98-82-8	Isopropylbenzene	0.12	0.12	ppb	U
75-25-2	Bromoform	0.29	0.29	ppb	U
79-34-5	1,1,2,2-Tetrachloroethane	0.24	0.24	ppb	U
96-18-4	1,2,3-Trichloropropane	0.62	0.62	ppb	U
103-65-1	n-Propylbenzene	0.17	0.17	ppb	U
108-86-1	Bromobenzene	0.21	0.21	ppb	U
108-67-8	1,3,5-Trimethylbenzene	0.12	0.12	ppb	U
95-49-8	2-Chlorotoluene	0.098	0.098	ppb	U
106-43-4	4-Chlorotoluene	0.17	0.17	ppb	U
98-06-6	tert-Butylbenzene	0.18	0.18	ppb	U
95-63-6	1,2,4-Trimethylbenzene	0.24	0.24	ppb	U
135-98-8	sec-Butylbenzene	0.15	0.15	ppb	U
99-87-6	4-Isopropyltoluene	0.22	0.22	ppb	U
541-73-1	1,3-Dichlorobenzene	0.22	0.22	ppb	U
106-46-7	1,4-Dichlorobenzene	0.27	0.27	ppb	U
95-50-1	1,2-Dichlorobenzene	0.16	0.16	ppb	U
104-51-8	n-Butylbenzene	0.17	0.17	ppb	U
96-12-8	1,2-Dibromo-3-chloropropane	0.82	0.82	ppb	U
120-82-1	1,2,4-Trichlorobenzene	0.46	0.46	ppb	U
87-68-3	Hexachlorobutadiene	0.17	0.17	ppb	U
91-20-3	Naphthalene	0.88	0.88	ppb	U
87-61-6	1,2,3-Trichlorobenzene	0.45	0.45	ppb	U

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Volatiles by EPA 8021B

Sample: K4864-3
Client Sample ID: SS-18
Matrix: Soil
Type: Grab
Collected: 05/14/2001 13:40
% Solid: 96%
Remarks: See Case Narrative
Analyzed Date: 05/17/2001

Cas No	Analyte	MDL	Concentration	Units	Q
75-71-8	Dichlorodifluoromethane	0.44	0.44	ppb	U
74-87-3	Chloromethane	0.37	0.37	ppb	U
75-01-4	Vinyl Chloride	0.21	0.21	ppb	U
74-83-9	Bromomethane	0.18	0.18	ppb	U
75-00-3	Chloroethane	0.34	0.34	ppb	U
75-69-4	Trichlorofluoromethane	0.27	0.27	ppb	U
75-35-4	1,1-Dichloroethene	0.33	0.33	ppb	U
75-09-2	Methylene Chloride	0.23	3.80	ppb	B
156-60-5	t-1,2-Dichloroethene	0.16	0.16	ppb	U
75-34-3	1,1-Dichloroethane	0.16	0.16	ppb	U
590-20-7	2,2-Dichloropropane	0.25	0.25	ppb	U
156-59-2	c-1,2-Dichloroethene	0.18	0.18	ppb	U
67-66-3	Chloroform	0.17	0.17	ppb	U
74-97-5	Bromochloromethane	0.18	0.18	ppb	U
71-55-6	1,1,1-Trichloroethane	0.15	0.15	ppb	U
563-58-6	1,1-Dichloropropene	0.46	0.46	ppb	U
56-23-5	Carbon Tetrachloride	0.22	0.22	ppb	U
107-06-2	1,2-Dichloroethane	0.23	0.23	ppb	U
71-43-2	Benzene	0.15	0.15	ppb	U
79-01-6	Trichloroethene	0.21	0.21	ppb	U
78-87-5	1,2-Dichloropropane	0.15	0.15	ppb	U
75-27-4	Bromodichloromethane	0.19	0.19	ppb	U
74-95-3	Dibromomethane	0.32	0.32	ppb	U
10061-01-5	c-1,3-Dichloropropene	0.19	0.19	ppb	U
108-88-3	Toluene	0.21	0.21	ppb	U
10061-02-6	t-1,3-Dichloropropene	0.23	0.23	ppb	U
79-00-5	1,1,2-Trichloroethane	0.20	0.20	ppb	U
142-28-9	1,3-Dichloropropane	0.40	0.40	ppb	U
127-18-4	Tetrachloroethene	0.19	0.19	ppb	U
124-48-1	Dibromochloromethane	0.25	0.25	ppb	U
106-93-4	1,2-Dibromoethane	0.25	0.25	ppb	U
108-90-7	Chlorobenzene	0.14	0.14	ppb	U
630-20-6	1,1,1,2-Tetrachloroethane	0.18	0.18	ppb	U
100-41-4	Ethylbenzene	0.11	0.11	ppb	U
108-38-3	m,p-xylene	0.26	0.26	ppb	U

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Sample: K4864-3...continue
Client Sample ID: SS-18
Matrix: Soil Type: Grab
Remarks: See Case Narrative
Analyzed Date: 05/17/2001

Collected: 05/14/2001 13:40
% Solid: 96%

Cas No	Analyte	MDL	Concentration	Units	Q
95-47-6	o-xylene	0.19	0.19	ppb	U
100-42-5	Styrene	0.19	0.19	ppb	U
98-82-8	Isopropylbenzene	0.10	0.10	ppb	U
75-25-2	Bromoform	0.25	0.25	ppb	U
79-34-5	1,1,2,2-Tetrachloroethane	0.21	0.21	ppb	U
96-18-4	1,2,3-Trichloropropane	0.53	0.53	ppb	U
103-65-1	n-Propylbenzene	0.15	0.15	ppb	U
108-86-1	Bromobenzene	0.18	0.18	ppb	U
108-67-8	1,3,5-Trimethylbenzene	0.10	0.10	ppb	U
95-49-8	2-Chlorotoluene	0.083	0.083	ppb	U
106-43-4	4-Chlorotoluene	0.15	0.15	ppb	U
98-06-6	tert-Butylbenzene	0.16	0.16	ppb	U
95-63-6	1,2,4-Trimethylbenzene	0.21	0.21	ppb	U
135-98-8	sec-Butylbenzene	0.12	0.12	ppb	U
99-87-6	4-Isopropyltoluene	0.19	0.19	ppb	U
541-73-1	1,3-Dichlorobenzene	0.19	0.19	ppb	U
106-46-7	1,4-Dichlorobenzene	0.23	0.23	ppb	U
95-50-1	1,2-Dichlorobenzene	0.14	0.14	ppb	U
104-51-8	n-Butylbenzene	0.15	0.15	ppb	U
96-12-8	1,2-Dibromo-3-chloropropane	0.70	0.70	ppb	U
120-82-1	1,2,4-Trichlorobenzene	0.40	0.40	ppb	U
87-68-3	Hexachlorobutadiene	0.15	0.15	ppb	U
91-20-3	Naphthalene	0.75	0.75	ppb	U
87-61-6	1,2,3-Trichlorobenzene	0.38	0.38	ppb	U

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Volatiles by EPA 8021B

Sample: K4864-4

Client Sample ID: SS-19 Collected: 05/14/2001 13:50

Matrix: Soil Type: Grab % Solid: 94%

Remarks: See Case Narrative

Analyzed Date: 05/17/2001

Cas No	Analyte	MDL	Concentration	Units	Q
75-71-8	Dichlorodifluoromethane	0.45	0.45	ppb	U
74-87-3	Chloromethane	0.38	0.38	ppb	U
75-01-4	Vinyl Chloride	0.21	0.21	ppb	U
74-83-9	Bromomethane	0.18	0.18	ppb	U
75-00-3	Chloroethane	0.35	0.35	ppb	U
75-69-4	Trichlorofluoromethane	0.28	0.28	ppb	U
75-35-4	1,1-Dichloroethene	0.34	0.34	ppb	U
75-09-2	Methylene Chloride	0.23	**3.20**	ppb	B
156-60-5	t-1,2-Dichloroethene	0.16	0.16	ppb	U
75-34-3	1,1-Dichloroethane	0.16	0.16	ppb	U
590-20-7	2,2-Dichloropropane	0.25	0.25	ppb	U
156-59-2	c-1,2-Dichloroethene	0.18	0.18	ppb	U
67-66-3	Chloroform	0.17	0.17	ppb	U
74-97-5	Bromochloromethane	0.18	0.18	ppb	U
71-55-6	1,1,1-Trichloroethane	0.15	0.15	ppb	U
563-58-6	1,1-Dichloropropene	0.47	0.47	ppb	U
56-23-5	Carbon Tetrachloride	0.22	0.22	ppb	U
107-06-2	1,2-Dichloroethane	0.23	0.23	ppb	U
71-43-2	Benzene	0.15	0.15	ppb	U
79-01-6	Trichloroethene	0.21	0.21	ppb	U
78-87-5	1,2-Dichloropropane	0.15	0.15	ppb	U
75-27-4	Bromodichloromethane	0.19	0.19	ppb	U
74-95-3	Dibromomethane	0.33	0.33	ppb	U
10061-01-5	c-1,3-Dichloropropene	0.19	0.19	ppb	U
108-88-3	Toluene	0.21	0.21	ppb	U
10061-02-6	t-1,3-Dichloropropene	0.23	0.23	ppb	U
79-00-5	1,1,2-Trichloroethane	0.20	0.20	ppb	U
142-28-9	1,3-Dichloropropane	0.40	0.40	ppb	U
127-18-4	Tetrachloroethene	0.19	0.19	ppb	U
124-48-1	Dibromochloromethane	0.25	0.25	ppb	U
106-93-4	1,2-Dibromoethane	0.25	0.25	ppb	U
108-90-7	Chlorobenzene	0.14	0.14	ppb	U
630-20-6	1,1,1,2-Tetrachloroethane	0.18	0.18	ppb	U
100-41-4	Ethylbenzene	0.12	0.12	ppb	U
108-38-3	m,p-xylene	0.26	0.26	ppb	U

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Volatiles by EPA 8021B

Sample: K4864-4...continue
Client Sample ID: SS-19
Matrix: Soil
Remarks: See Case Narrative
Analyzed Date: 05/17/2001

Type: Grab

Collected: 05/14/2001 13:50
% Solid: 94%

Cas No	Analyte	MDL	Concentration	Units	Q
95-47-6	o-xylene	0.19	0.19	ppb	U
100-42-5	Styrene	0.19	0.19	ppb	U
98-82-8	Isopropylbenzene	0.11	0.11	ppb	U
75-25-2	Bromoform	0.25	0.25	ppb	U
79-34-5	1,1,2,2-Tetrachloroethane	0.21	0.21	ppb	U
96-18-4	1,2,3-Trichloropropane	0.54	0.54	ppb	U
103-65-1	n-Propylbenzene	0.15	0.15	ppb	U
108-86-1	Bromobenzene	0.18	0.18	ppb	U
108-67-8	1,3,5-Trimethylbenzene	0.11	0.11	ppb	U
95-49-8	2-Chlorotoluene	0.085	0.085	ppb	U
106-43-4	4-Chlorotoluene	0.15	0.15	ppb	U
98-06-6	tert-Butylbenzene	0.16	0.16	ppb	U
95-63-6	1,2,4-Trimethylbenzene	0.21	0.21	ppb	U
135-98-8	sec-Butylbenzene	0.13	0.13	ppb	U
99-87-6	4-Isopropyltoluene	0.19	0.19	ppb	U
541-73-1	1,3-Dichlorobenzene	0.19	0.19	ppb	U
106-46-7	1,4-Dichlorobenzene	0.23	0.23	ppb	U
95-50-1	1,2-Dichlorobenzene	0.14	0.14	ppb	U
104-51-8	n-Butylbenzene	0.15	0.15	ppb	U
96-12-8	1,2-Dibromo-3-chloropropane	0.71	0.71	ppb	U
120-82-1	1,2,4-Trichlorobenzene	0.40	0.40	ppb	U
87-68-3	Hexachlorobutadiene	0.15	0.15	ppb	U
91-20-3	Naphthalene	0.76	0.76	ppb	U
87-61-6	1,2,3-Trichlorobenzene	0.39	0.39	ppb	U

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06/07/2001

Volatiles by EPA 8021B

Sample: K4864-5

Client Sample ID: SS-20

Matrix: Soil

Type: Grab

Collected: 05/14/2001 14:00

% Solid: 97.1%

Remarks: See Case Narrative

Analyzed Date: 05/17/2001

Cas No	Analyte	MDL	Concentration	Units	Q
75-71-8	Dichlorodifluoromethane	0.43	0.43	ppb	U
74-87-3	Chloromethane	0.37	0.37	ppb	U
75-01-4	Vinyl Chloride	0.21	0.21	ppb	U
74-83-9	Bromomethane	0.18	0.18	ppb	U
75-00-3	Chloroethane	0.34	0.34	ppb	U
75-69-4	Trichlorofluoromethane	0.27	0.27	ppb	U
75-35-4	1,1-Dichloroethene	0.33	0.33	ppb	U
75-09-2	Methylene Chloride	0.23	3.70	ppb	B
156-60-5	t-1,2-Dichloroethene	0.15	0.15	ppb	U
75-34-3	1,1-Dichloroethane	0.15	0.15	ppb	U
590-20-7	2,2-Dichloropropane	0.25	0.25	ppb	U
156-59-2	c-1,2-Dichloroethene	0.18	0.18	ppb	U
67-66-3	Chloroform	0.16	0.16	ppb	U
74-97-5	Bromochloromethane	0.18	0.18	ppb	U
71-55-6	1,1,1-Trichloroethane	0.14	0.14	ppb	U
563-58-6	1,1-Dichloropropene	0.45	0.45	ppb	U
56-23-5	Carbon Tetrachloride	0.22	0.22	ppb	U
107-06-2	1,2-Dichloroethane	0.23	0.23	ppb	U
71-43-2	Benzene	0.14	0.14	ppb	U
79-01-6	Trichloroethene	0.21	0.21	ppb	U
78-87-5	1,2-Dichloropropane	0.14	0.14	ppb	U
75-27-4	Bromodichloromethane	0.19	0.19	ppb	U
74-95-3	Dibromomethane	0.32	0.32	ppb	U
10061-01-5	c-1,3-Dichloropropene	0.19	0.19	ppb	U
108-88-3	Toluene	0.21	0.60	ppb	
10061-02-6	t-1,3-Dichloropropene	0.23	0.23	ppb	U
79-00-5	1,1,2-Trichloroethane	0.20	0.20	ppb	U
142-28-9	1,3-Dichloropropane	0.39	0.39	ppb	U
127-18-4	Tetrachloroethene	0.19	0.19	ppb	U
124-48-1	Dibromochloromethane	0.25	0.25	ppb	U
106-93-4	1,2-Dibromoethane	0.25	0.25	ppb	U
108-90-7	Chlorobenzene	0.13	0.13	ppb	U
630-20-6	1,1,1,2-Tetrachloroethane	0.18	0.18	ppb	U
100-41-4	Ethylbenzene	0.11	0.11	ppb	U
108-38-3	m,p-xylene	0.26	0.26	ppb	U

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Volatiles by EPA 8021B

Sample: K4864-5...continue

Client Sample ID: SS-20
Matrix: Soil
Type: Grab
Collected: 05/14/2001 14:00
% Solid: 97.1%
Remarks: See Case Narrative
Analyzed Date: 05/17/2001

Cas No	Analyte	MDL	Concentration	Units	Q
95-47-6	o-xylene	0.19	0.19	ppb	U
100-42-5	Styrene	0.19	0.19	ppb	U
98-82-8	Isopropylbenzene	0.10	0.10	ppb	U
75-25-2	Bromoform	0.25	0.25	ppb	U
79-34-5	1,1,2,2-Tetrachloroethane	0.21	0.21	ppb	U
96-18-4	1,2,3-Trichloropropane	0.53	0.53	ppb	U
103-65-1	n-Propylbenzene	0.14	0.14	ppb	U
108-86-1	Bromobenzene	0.18	0.18	ppb	U
108-67-8	1,3,5-Trimethylbenzene	0.10	0.10	ppb	U
95-49-8	2-Chlorotoluene	0.082	0.082	ppb	U
106-43-4	4-Chlorotoluene	0.14	0.14	ppb	U
98-06-6	tert-Butylbenzene	0.15	0.15	ppb	U
95-63-6	1,2,4-Trimethylbenzene	0.21	0.21	ppb	U
135-98-8	sec-Butylbenzene	0.12	0.12	ppb	U
99-87-6	4-Isopropyltoluene	0.19	0.19	ppb	U
541-73-1	1,3-Dichlorobenzene	0.19	0.19	ppb	U
106-46-7	1,4-Dichlorobenzene	0.23	0.23	ppb	U
95-50-1	1,2-Dichlorobenzene	0.13	0.13	ppb	U
104-51-8	n-Butylbenzene	0.14	0.14	ppb	U
96-12-8	1,2-Dibromo-3-chloropropane	0.69	0.69	ppb	U
120-82-1	1,2,4-Trichlorobenzene	0.39	0.39	ppb	U
87-68-3	Hexachlorobutadiene	0.14	0.14	ppb	U
91-20-3	Naphthalene	0.74	0.74	ppb	U
87-61-6	1,2,3-Trichlorobenzene	0.38	0.38	ppb	U

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06/07/2001

Volatiles by EPA 8021B

Sample: K4864-14

Client Sample ID: FB-051401

Matrix: Liquid

Remarks: See Case Narrative

Analyzed Date: 05/21/2001

Type: Blank

Collected: 05/14/2001 14:10

Cas No	Analyte	MDL	Concentration	Units	Q
75-71-8	Dichlorodifluoromethane	0.29	0.29	ppb	U
74-87-3	Chloromethane	0.32	0.32	ppb	U
75-01-4	Vinyl Chloride	0.25	0.25	ppb	U
74-83-9	Bromomethane	0.12	0.12	ppb	U
75-00-3	Chloroethane	0.30	0.30	ppb	U
75-69-4	Trichlorofluoromethane	0.16	0.16	ppb	U
75-35-4	1,1-Dichloroethene	0.18	0.18	ppb	U
75-09-2	Methylene Chloride	0.41	0.41	ppb	U
156-60-5	t-1,2-Dichloroethene	0.22	0.22	ppb	U
75-34-3	1,1-Dichloroethane	0.14	0.14	ppb	U
590-20-7	2,2-Dichloropropane	0.18	0.18	ppb	U
156-59-2	c-1,2-Dichloroethene	0.30	0.30	ppb	U
67-66-3	Chloroform	0.15	0.15	ppb	U
74-97-5	Bromochloromethane	0.32	0.32	ppb	U
71-55-6	1,1,1-Trichloroethane	0.20	0.20	ppb	U
563-58-6	1,1-Dichloropropene	0.67	0.67	ppb	U
56-23-5	Carbon Tetrachloride	0.18	0.18	ppb	U
107-06-2	1,2-Dichloroethane	0.20	0.20	ppb	U
71-43-2	Benzene	0.10	0.10	ppb	U
79-01-6	Trichloroethene	0.20	0.20	ppb	U
78-87-5	1,2-Dichloropropane	0.16	0.16	ppb	U
75-27-4	Bromodichloromethane	0.13	0.13	ppb	U
74-95-3	Dibromomethane	0.18	0.18	ppb	U
10061-01-5	c-1,3-Dichloropropene	0.15	0.15	ppb	U
108-88-3	Toluene	0.15	0.15	ppb	U
10061-02-6	t-1,3-Dichloropropene	0.15	0.15	ppb	U
79-00-5	1,1,2-Trichloroethane	0.20	0.20	ppb	U
142-28-9	1,3-Dichloropropane	0.16	0.16	ppb	U
127-18-4	Tetrachloroethene	0.11	0.11	ppb	U
124-48-1	Dibromochloromethane	0.14	0.14	ppb	U
106-93-4	1,2-Dibromoethane	0.23	0.23	ppb	U
108-90-7	Chlorobenzene	0.11	0.11	ppb	U
630-20-6	1,1,1,2-Tetrachloroethane	0.35	0.35	ppb	U
100-41-4	Ethylbenzene	0.19	0.19	ppb	U
108-38-3	m,p-xylene	0.28	0.28	ppb	U

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06/07/2001

Volatiles by EPA 8021B

Sample: K4864-14...continue
Client Sample ID: FB-051401
Matrix: Liquid
Remarks: See Case Narrative
Analyzed Date: 05/21/2001

Type: Blank

Collected: 05/14/2001 14:10

Cas No	Analyte	MDL	Concentration	Units	Q
95-47-6	o-xylene	0.16	0.16	ppb	U
100-42-5	Styrene	0.23	0.23	ppb	U
98-82-8	Isopropylbenzene	0.26	0.26	ppb	U
75-25-2	Bromoform	0.090	0.090	ppb	U
79-34-5	1,1,2,2-Tetrachloroethane	0.22	0.22	ppb	U
96-18-4	1,2,3-Trichloropropane	0.62	0.62	ppb	U
103-65-1	n-Propylbenzene	0.21	0.21	ppb	U
108-86-1	Bromobenzene	0.27	0.27	ppb	U
108-67-8	1,3,5-Trimethylbenzene	0.34	0.34	ppb	U
95-49-8	2-Chlorotoluene	0.21	0.21	ppb	U
106-43-4	4-Chlorotoluene	0.36	0.36	ppb	U
98-06-6	tert-Butylbenzene	0.37	0.37	ppb	U
95-63-6	1,2,4-Trimethylbenzene	0.22	0.22	ppb	U
135-98-8	sec-Butylbenzene	0.28	0.28	ppb	U
99-87-6	4-Isopropyltoluene	0.24	0.24	ppb	U
541-73-1	1,3-Dichlorobenzene	0.13	0.13	ppb	U
106-46-7	1,4-Dichlorobenzene	0.080	0.080	ppb	U
95-50-1	1,2-Dichlorobenzene	0.14	0.14	ppb	U
104-51-8	n-Butylbenzene	0.12	0.12	ppb	U
96-12-8	1,2-Dibromo-3-chloropropane	0.53	0.53	ppb	U
120-82-1	1,2,4-Trichlorobenzene	0.19	0.19	ppb	U
87-68-3	Hexachlorobutadiene	0.33	0.33	ppb	U
91-20-3	Naphthalene	0.19	0.19	ppb	U
87-61-6	1,2,3-Trichlorobenzene	0.23	0.23	ppb	U

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06/07/2001

Volatiles by EPA 8021B

Sample: K4864-15

Client Sample ID: TB-051401

Matrix: Liquid

Remarks: See Case Narrative

Analyzed Date: 05/21/2001

Type: Trip Blank

Collected: 05/14/2001

Cas No	Analyte	MDL	Concentration	Units	Q
75-71-8	Dichlorodifluoromethane	0.29	0.29	ppb	U
74-87-3	Chloromethane	0.32	0.32	ppb	U
75-01-4	Vinyl Chloride	0.25	0.25	ppb	U
74-83-9	Bromomethane	0.12	0.12	ppb	U
75-00-3	Chloroethane	0.30	0.30	ppb	U
75-69-4	Trichlorofluoromethane	0.16	0.16	ppb	U
75-35-4	1,1-Dichloroethene	0.18	0.18	ppb	U
75-09-2	Methylene Chloride	0.41	0.41	ppb	U
156-60-5	t-1,2-Dichloroethene	0.22	0.22	ppb	U
75-34-3	1,1-Dichloroethane	0.14	0.14	ppb	U
590-20-7	2,2-Dichloropropane	0.18	0.18	ppb	U
156-59-2	c-1,2-Dichloroethene	0.30	0.30	ppb	U
67-66-3	Chloroform	0.15	0.15	ppb	U
74-97-5	Bromochloromethane	0.32	0.32	ppb	U
71-55-6	1,1,1-Trichloroethane	0.20	0.20	ppb	U
563-58-6	1,1-Dichloropropene	0.67	0.67	ppb	U
56-23-5	Carbon Tetrachloride	0.18	0.18	ppb	U
107-06-2	1,2-Dichloroethane	0.20	0.20	ppb	U
71-43-2	Benzene	0.10	0.10	ppb	U
79-01-6	Trichloroethene	0.20	0.20	ppb	U
78-87-5	1,2-Dichloropropane	0.16	0.16	ppb	U
75-27-4	Bromodichloromethane	0.13	0.13	ppb	U
74-95-3	Dibromomethane	0.18	0.18	ppb	U
10061-01-5	c-1,3-Dichloropropene	0.15	0.15	ppb	U
108-88-3	Toluene	0.15	0.15	ppb	U
10061-02-6	t-1,3-Dichloropropene	0.15	0.15	ppb	U
79-00-5	1,1,2-Trichloroethane	0.20	0.20	ppb	U
142-28-9	1,3-Dichloropropane	0.16	0.16	ppb	U
127-18-4	Tetrachloroethene	0.11	0.11	ppb	U
124-48-1	Dibromochloromethane	0.14	0.14	ppb	U
106-93-4	1,2-Dibromoethane	0.23	0.23	ppb	U
108-90-7	Chlorobenzene	0.11	0.11	ppb	U
630-20-6	1,1,1,2-Tetrachloroethane	0.35	0.35	ppb	U
100-41-4	Ethylbenzene	0.19	0.19	ppb	U
108-38-3	m,p-xylene	0.28	0.28	ppb	U

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Volatiles by EPA 8021B

Sample: K4864-15...continue
Client Sample ID: TB-051401
Matrix: Liquid
Remarks: See Case Narrative
Analyzed Date: 05/21/2001

Type: Trip Blank

Collected: 05/14/2001

Cas No	Analyte	MDL	Concentration	Units	Q
95-47-6	o-xylene	0.16	0.16	ppb	U
100-42-5	Styrene	0.23	0.23	ppb	U
98-82-8	Isopropylbenzene	0.26	0.26	ppb	U
75-25-2	Bromoform	0.090	0.090	ppb	U
79-34-5	1,1,2,2-Tetrachloroethane	0.22	0.22	ppb	U
96-18-4	1,2,3-Trichloropropane	0.62	0.62	ppb	U
103-65-1	n-Propylbenzene	0.21	0.21	ppb	U
108-86-1	Bromobenzene	0.27	0.27	ppb	U
108-67-8	1,3,5-Trimethylbenzene	0.34	0.34	ppb	U
95-49-8	2-Chlorotoluene	0.21	0.21	ppb	U
106-43-4	4-Chlorotoluene	0.36	0.36	ppb	U
98-06-6	tert-Butylbenzene	0.37	0.37	ppb	U
95-63-6	1,2,4-Trimethylbenzene	0.22	0.22	ppb	U
135-98-8	sec-Butylbenzene	0.28	0.28	ppb	U
99-87-6	4-Isopropyltoluene	0.24	0.24	ppb	U
541-73-1	1,3-Dichlorobenzene	0.13	0.13	ppb	U
106-46-7	1,4-Dichlorobenzene	0.080	0.080	ppb	U
95-50-1	1,2-Dichlorobenzene	0.14	0.14	ppb	U
104-51-8	n-Butylbenzene	0.12	0.12	ppb	U
96-12-8	1,2-Dibromo-3-chloropropane	0.53	0.53	ppb	U
120-82-1	1,2,4-Trichlorobenzene	0.19	0.19	ppb	U
87-68-3	Hexachlorobutadiene	0.33	0.33	ppb	U
91-20-3	Naphthalene	0.19	0.19	ppb	U
87-61-6	1,2,3-Trichlorobenzene	0.23	0.23	ppb	U

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06/07/2001

Semivolatiles by EPA 8270B

Sample: K4864-1

Client Sample ID: SS-16

Matrix: Soil Type: Grab

Collected: 05/14/2001 13:15

% Solid: 84%

Remarks:

Analyzed Date: 05/23/2001

Cas No	Analyte	MDL	Concentration	Units	Q
108-95-2	Phenol	38.7	38.7	ppb	U
111-44-4	bis(2-Chloroethyl)ether	37.3	37.3	ppb	U
95-57-8	2-Chlorophenol	38.0	38.0	ppb	U
541-73-1	1,3-Dichlorobenzene	40.6	40.6	ppb	U
106-46-7	1,4-Dichlorobenzene	39.5	39.5	ppb	U
100-51-6	Benzyl alcohol	33.5	33.5	ppb	U
95-50-1	1,2-Dichlorobenzene	39.9	39.9	ppb	U
95-48-7	2-Methylphenol	33.0	33.0	ppb	U
108-60-1	bis(2-Chloroisopropyl)ether	43.0	43.0	ppb	U
106-44-5	3,4-Methylphenol	31.9	31.9	ppb	U
621-64-7	N-Nitroso-di-n-propylamine	38.8	38.8	ppb	U
67-72-1	Hexachloroethane	40.9	40.9	ppb	U
98-95-3	Nitrobenzene	44.8	44.8	ppb	U
78-59-1	Isophorone	40.9	40.9	ppb	U
88-75-5	2-Nitrophenol	31.1	31.1	ppb	U
105-67-9	2,4-Dimethylphenol	18.8	18.8	ppb	U
65-85-0	Benzoic acid	31.0	31.0	ppb	U
111-91-1	bis(2-Chloroethoxy)methane	37.6	37.6	ppb	U
120-83-2	2,4-Dichlorophenol	32.6	32.6	ppb	U
120-82-1	1,2,4-Trichlorobenzene	39.4	39.4	ppb	U
91-20-3	Naphthalene	37.5	37.5	ppb	U
106-47-8	4-Chloroaniline	41.0	41.0	ppb	U
87-68-3	Hexachlorobutadiene	39.5	39.5	ppb	U
59-50-7	4-Chloro-3-methylphenol	31.8	31.8	ppb	U
91-57-6	2-Methylnaphthalene	32.0	32.0	ppb	U
77-47-4	Hexachlorocyclopentadiene	33.1	33.1	ppb	U
88-06-2	2,4,6-Trichlorophenol	31.4	31.4	ppb	U
95-95-4	2,4,5-Trichlorophenol	30.3	30.3	ppb	U
91-58-7	2-Chloronaphthalene	36.2	36.2	ppb	U
88-74-4	2-Nitroaniline	28.5	28.5	ppb	U
131-11-3	Dimethyl phthalate	34.7	34.7	ppb	U
208-96-8	Acenaphthylene	36.2	12.7	ppb	J
606-20-2	2,6-Dinitrotoluene	32.0	32.0	ppb	U
99-09-2	3-Nitroaniline	30.6	30.6	ppb	U
83-32-9	Acenaphthene	34.2	34.2	ppb	U

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06/07/2001

Semivolatiles by EPA 8270B

Sample: K4864-1...continue
Client Sample ID: SS-16
Matrix: Soil
Type: Grab
Collected: 05/14/2001 13:15
% Solid: 84%
Remarks:
Analyzed Date: 05/23/2001

Cas No	Analyte	MDL	Concentration	Units	Q
51-28-5	2,4-Dinitrophenol	36.4	36.4	ppb	U
100-02-7	4-Nitrophenol	23.6	23.6	ppb	U
132-64-9	Dibenzofuran	34.6	34.6	ppb	U
121-14-2	2,4-Dinitrotoluene	30.4	30.4	ppb	U
84-66-2	Diethylphthalate	22.3	22.3	ppb	U
7005-72-3	4-Chlorophenyl-phenyl ether	35.3	35.3	ppb	U
86-73-7	Fluorene	33.6	33.6	ppb	U
100-01-6	4-Nitroaniline	26.7	26.7	ppb	U
534-52-1	4,6-Dinitro-2-methylphenol	33.7	33.7	ppb	U
86-30-6	N-nitrosodiphenylamine	31.8	31.8	ppb	U
101-55-3	4-Bromophenyl-phenylether	32.2	32.2	ppb	U
118-74-1	Hexachlorobenzene	35.3	35.3	ppb	U
87-86-5	Pentachlorophenol	23.9	23.9	ppb	U
85-01-8	Phenanthrene	29.0	**29.4**	ppb	
120-12-7	Anthracene	26.5	**11.9**	ppb	J
84-74-2	Di-n-butylphthalate	77.7	**24.6**	ppb	J
206-44-0	Fluoranthene	26.0	**167**	ppb	
129-00-0	Pyrene	26.3	**170**	ppb	
85-68-7	Butylbenzylphthalate	23.7	23.7	ppb	U
91-94-1	3,3'-Dichlorobenzidine	76.9	76.9	ppb	U
56-55-3	Benzo(a)anthracene	24.0	**104**	ppb	
218-01-9	Chrysene	25.6	**107**	ppb	
117-81-7	bis(2-Ethylhexyl)phthalate	137	**70.6**	ppb	J
117-84-0	Di-n-octylphthalate	21.3	21.3	ppb	U
205-99-2	Benzo(b)fluoranthene	16.7	**110**	ppb	
207-08-9	Benzo(k)fluoranthene	25.0	**114**	ppb	
50-32-8	Benzo(a)pyrene	18.6	**109**	ppb	
193-39-5	Indeno(1,2,3-cd)pyrene	16.2	**53.6**	ppb	
53-70-3	Dibenzo(a,h)anthracene	16.3	16.3	ppb	U
191-24-2	Benzo(g,h,i)perylene	15.6	**50.4**	ppb	

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06/07/2001

Semivolatiles by EPA 8270B

Sample: K4864-2

Client Sample ID: SS-17 Collected: 05/14/2001 13:25

Matrix: Soil Type: Grab % Solid: 81.7%

Remarks:

Analyzed Date: 05/23/2001

Cas No	Analyte	MDL	Concentration	Units	Q
108-95-2	Phenol	24.3	24.3	ppb	U
111-44-4	bis(2-Chloroethyl)ether	31.5	31.5	ppb	U
95-57-8	2-Chlorophenol	29.6	29.6	ppb	U
541-73-1	1,3-Dichlorobenzene	32.3	32.3	ppb	U
106-46-7	1,4-Dichlorobenzene	30.7	30.7	ppb	U
100-51-6	Benzyl alcohol	30.9	30.9	ppb	U
95-50-1	1,2-Dichlorobenzene	34.6	29.8	ppb	J
95-48-7	2-Methylphenol	31.0	31.0	ppb	U
108-60-1	bis(2-Chloroisopropyl)ether	32.7	32.7	ppb	U
106-44-5	3,4-Methylphenol	31.0	31.0	ppb	U
621-64-7	N-Nitroso-di-n-propylamine	28.6	28.6	ppb	U
67-72-1	Hexachloroethane	27.5	27.5	ppb	U
98-95-3	Nitrobenzene	34.2	34.2	ppb	U
78-59-1	Isophorone	27.9	27.9	ppb	U
88-75-5	2-Nitrophenol	25.9	25.9	ppb	U
105-67-9	2,4-Dimethylphenol	24.3	24.3	ppb	U
65-85-0	Benzoic acid	20.6	20.6	ppb	U
111-91-1	bis(2-Chloroethoxy)methane	31.9	31.9	ppb	U
120-83-2	2,4-Dichlorophenol	28.7	28.7	ppb	U
120-82-1	1,2,4-Trichlorobenzene	35.0	35.0	ppb	U
91-20-3	Naphthalene	33.8	1370	ppb	
106-47-8	4-Chloroaniline	17.3	17.3	ppb	U
87-68-3	Hexachlorobutadiene	32.7	32.7	ppb	U
59-50-7	4-Chloro-3-methylphenol	33.7	33.7	ppb	U
91-57-6	2-Methylnaphthalene	28.8	420	ppb	
77-47-4	Hexachlorocyclopentadiene	14.5	14.5	ppb	U
88-06-2	2,4,6-Trichlorophenol	28.8	28.8	ppb	U
95-95-4	2,4,5-Trichlorophenol	25.7	25.7	ppb	U
91-58-7	2-Chloronaphthalene	33.5	33.5	ppb	U
88-74-4	2-Nitroaniline	25.1	25.1	ppb	U
131-11-3	Dimethyl phthalate	33.4	33.4	ppb	U
208-96-8	Acenaphthylene	32.8	198	ppb	
606-20-2	2,6-Dinitrotoluene	24.8	24.8	ppb	U
99-09-2	3-Nitroaniline	16.0	16.0	ppb	U
83-32-9	Acenaphthene	35.3	2020	ppb	

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06/07/2001

Semivolatiles by EPA 8270B

Sample: K4864-2...continue
Client Sample ID: SS-17
Matrix: Soil
Type: Grab
Collected: 05/14/2001 13:25
% Solid: 81.7%
Remarks:
Analyzed Date: 05/23/2001

Cas No	Analyte	MDL	Concentration	Units	Q
51-28-5	2,4-Dinitrophenol	23.7	23.7	ppb	U
100-02-7	4-Nitrophenol	53.2	53.2	ppb	U
132-64-9	Dibenzofuran	34.4	1030	ppb	
121-14-2	2,4-Dinitrotoluene	22.7	22.7	ppb	U
84-66-2	Diethylphthalate	22.0	22.0	ppb	U
7005-72-3	4-Chlorophenyl-phenyl ether	39.5	39.5	ppb	U
86-73-7	Fluorene	35.8	1590	ppb	
100-01-6	4-Nitroaniline	18.4	18.4	ppb	U
534-52-1	4,6-Dinitro-2-methylphenol	31.1	31.1	ppb	U
86-30-6	N-nitrosodiphenylamine	32.8	32.8	ppb	U
101-55-3	4-Bromophenyl-phenylether	29.9	29.9	ppb	U
118-74-1	Hexachlorobenzene	29.3	29.3	ppb	U
87-86-5	Pentachlorophenol	19.9	19.9	ppb	U
85-01-8	Phenanthrene	287	10700	ppb	
120-12-7	Anthracene	29.3	3100	ppb	
84-74-2	Di-n-butylphthalate	88.1	26.9	ppb	J
206-44-0	Fluoranthene	259	11800	ppb	
129-00-0	Pyrene	215	10400	ppb	
85-68-7	Butylbenzylphthalate	19.5	197	ppb	
91-94-1	3,3'-Dichlorobenzidine	33.8	33.8	ppb	U
56-55-3	Benzo(a)anthracene	205	5760	ppb	
218-01-9	Chrysene	204	5720	ppb	
117-81-7	bis(2-Ethylhexyl)phthalate	133	402	ppb	
117-84-0	Di-n-octylphthalate	251	251	ppb	U
205-99-2	Benzo(b)fluoranthene	335	6610	ppb	
207-08-9	Benzo(k)fluoranthene	272	3590	ppb	
50-32-8	Benzo(a)pyrene	222	3840	ppb	
193-39-5	Indeno(1,2,3-cd)pyrene	259	1100	ppb	
53-70-3	Dibenzo(a,h)anthracene	244	437	ppb	
191-24-2	Benzo(g,h,i)perylene	216	1160	ppb	

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06/07/2001

Semivolatiles by EPA 8270B

Sample: K4864-3

Client Sample ID: SS-18

Matrix: Soil

Type: Grab

Collected: 05/14/2001 13:40

% Solid: 96%

Remarks:

Analyzed Date: 05/23/2001

Cas No	Analyte	MDL	Concentration	Units	Q
108-95-2	Phenol	20.7	20.7	ppb	U
111-44-4	bis(2-Chloroethyl)ether	26.8	26.8	ppb	U
95-57-8	2-Chlorophenol	25.2	25.2	ppb	U
541-73-1	1,3-Dichlorobenzene	27.5	27.5	ppb	U
106-46-7	1,4-Dichlorobenzene	26.1	26.1	ppb	U
100-51-6	Benzyl alcohol	26.3	26.3	ppb	U
95-50-1	1,2-Dichlorobenzene	29.4	29.4	ppb	U
95-48-7	2-Methylphenol	26.4	26.4	ppb	U
108-60-1	bis(2-Chloroisopropyl)ether	27.8	27.8	ppb	U
106-44-5	3,4-Methylphenol	26.4	26.4	ppb	U
621-64-7	N-Nitroso-di-n-propylamine	24.3	24.3	ppb	U
67-72-1	Hexachloroethane	23.4	23.4	ppb	U
98-95-3	Nitrobenzene	29.1	29.1	ppb	U
78-59-1	Isophorone	23.7	23.7	ppb	U
88-75-5	2-Nitrophenol	22.1	22.1	ppb	U
105-67-9	2,4-Dimethylphenol	20.7	20.7	ppb	U
65-85-0	Benzoic acid	17.5	17.5	ppb	U
111-91-1	bis(2-Chloroethoxy)methane	27.1	27.1	ppb	U
120-83-2	2,4-Dichlorophenol	24.4	24.4	ppb	U
120-82-1	1,2,4-Trichlorobenzene	29.8	29.8	ppb	U
91-20-3	Naphthalene	28.7	28.7	ppb	U
106-47-8	4-Chloroaniline	14.8	14.8	ppb	U
87-68-3	Hexachlorobutadiene	27.8	27.8	ppb	U
59-50-7	4-Chloro-3-methylphenol	28.6	28.6	ppb	U
91-57-6	2-Methylnaphthalene	24.5	24.5	ppb	U
77-47-4	Hexachlorocyclopentadiene	12.3	12.3	ppb	U
88-06-2	2,4,6-Trichlorophenol	24.5	24.5	ppb	U
95-95-4	2,4,5-Trichlorophenol	21.8	21.8	ppb	U
91-58-7	2-Chloronaphthalene	28.5	28.5	ppb	U
88-74-4	2-Nitroaniline	21.4	21.4	ppb	U
131-11-3	Dimethyl phthalate	28.4	28.4	ppb	U
208-96-8	Acenaphthylene	27.9	27.9	ppb	U
606-20-2	2,6-Dinitrotoluene	21.1	21.1	ppb	U
99-09-2	3-Nitroaniline	13.6	13.6	ppb	U
83-32-9	Acenaphthene	30.0	30.0	ppb	U

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06/07/2001

Semivolatiles by EPA 8270B

Sample: K4864-3...continue
Client Sample ID: SS-18
Matrix: Soil
Type: Grab
Collected: 05/14/2001 13:40
% Solid: 96%
Remarks:
Analyzed Date: 05/23/2001

Cas No	Analyte	MDL	Concentration	Units	Q
51-28-5	2,4-Dinitrophenol	20.2	20.2	ppb	U
100-02-7	4-Nitrophenol	45.3	45.3	ppb	U
132-64-9	Dibenzofuran	29.3	29.3	ppb	U
121-14-2	2,4-Dinitrotoluene	19.3	19.3	ppb	U
84-66-2	Diethylphthalate	18.7	**8.00**	ppb	J
7005-72-3	4-Chlorophenyl-phenyl ether	33.6	33.6	ppb	U
86-73-7	Fluorene	30.5	30.5	ppb	U
100-01-6	4-Nitroaniline	15.7	15.7	ppb	U
534-52-1	4,6-Dinitro-2-methylphenol	26.5	26.5	ppb	U
86-30-6	N-nitrosodiphenylamine	27.9	27.9	ppb	U
101-55-3	4-Bromophenyl-phenylether	25.4	25.4	ppb	U
118-74-1	Hexachlorobenzene	24.9	24.9	ppb	U
87-86-5	Pentachlorophenol	16.9	16.9	ppb	U
85-01-8	Phenanthrene	24.4	**30.2**	ppb	
120-12-7	Anthracene	24.9	**9.70**	ppb	J
84-74-2	Di-n-butylphthalate	75.0	**35.8**	ppb	J
206-44-0	Fluoranthene	22.0	**47.6**	ppb	
129-00-0	Pyrene	18.3	**42.0**	ppb	
85-68-7	Butylbenzylphthalate	16.6	16.6	ppb	U
91-94-1	3,3'-Dichlorobenzidine	28.7	28.7	ppb	U
56-55-3	Benzo(a)anthracene	17.4	**27.8**	ppb	
218-01-9	Chrysene	17.4	**22.6**	ppb	
117-81-7	bis(2-Ethylhexyl)phthalate	113	**99.7**	ppb	J
117-84-0	Di-n-octylphthalate	21.4	21.4	ppb	U
205-99-2	Benzo(b)fluoranthene	28.5	**18.7**	ppb	J
207-08-9	Benzo(k)fluoranthene	23.1	**16.0**	ppb	J
50-32-8	Benzo(a)pyrene	18.9	**14.9**	ppb	J
193-39-5	Indeno(1,2,3-cd)pyrene	22.1	22.1	ppb	U
53-70-3	Dibenzo(a,h)anthracene	20.8	20.8	ppb	U
191-24-2	Benzo(g,h,i)perylene	18.4	18.4	ppb	U

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06/07/2001

Semivolatiles by EPA 8270B

Sample: K4864-4

Client Sample ID: SS-19

Matrix: Soil

Type: Grab

Collected: 05/14/2001 13:50

% Solid: 94%

Remarks:

Analyzed Date: 05/26/2001

Cas No	Analyte	MDL	Concentration	Units	Q
108-95-2	Phenol	21.1	21.1	ppb	U
111-44-4	bis(2-Chloroethyl)ether	27.4	27.4	ppb	U
95-57-8	2-Chlorophenol	25.7	25.7	ppb	U
541-73-1	1,3-Dichlorobenzene	28.0	28.0	ppb	U
106-46-7	1,4-Dichlorobenzene	26.7	26.7	ppb	U
100-51-6	Benzyl alcohol	26.8	26.8	ppb	U
95-50-1	1,2-Dichlorobenzene	30.1	30.1	ppb	U
95-48-7	2-Methylphenol	26.9	26.9	ppb	U
108-60-1	bis(2-Chloroisopropyl)ether	28.4	28.4	ppb	U
106-44-5	3,4-Methylphenol	27.0	27.0	ppb	U
621-64-7	N-Nitroso-di-n-propylamine	24.9	24.9	ppb	U
67-72-1	Hexachloroethane	23.9	23.9	ppb	U
98-95-3	Nitrobenzene	29.7	29.7	ppb	U
78-59-1	Isophorone	24.2	24.2	ppb	U
88-75-5	2-Nitrophenol	22.6	22.6	ppb	U
105-67-9	2,4-Dimethylphenol	21.1	21.1	ppb	U
65-85-0	Benzoic acid	17.9	17.9	ppb	U
111-91-1	bis(2-Chloroethoxy)methane	27.7	27.7	ppb	U
120-83-2	2,4-Dichlorophenol	24.9	24.9	ppb	U
120-82-1	1,2,4-Trichlorobenzene	30.4	30.4	ppb	U
91-20-3	Naphthalene	29.4	**35.8**	ppb	
106-47-8	4-Chloroaniline	15.1	15.1	ppb	U
87-68-3	Hexachlorobutadiene	28.4	28.4	ppb	U
59-50-7	4-Chloro-3-methylphenol	29.3	29.3	ppb	U
91-57-6	2-Methylnaphthalene	25.0	**83.7**	ppb	
77-47-4	Hexachlorocyclopentadiene	12.6	12.6	ppb	U
88-06-2	2,4,6-Trichlorophenol	25.0	25.0	ppb	U
95-95-4	2,4,5-Trichlorophenol	22.3	22.3	ppb	U
91-58-7	2-Chloronaphthalene	29.1	29.1	ppb	U
88-74-4	2-Nitroaniline	21.8	21.8	ppb	U
131-11-3	Dimethyl phthalate	29.0	**42.9**	ppb	
208-96-8	Acenaphthylene	28.5	**21.6**	ppb	J
606-20-2	2,6-Dinitrotoluene	21.6	21.6	ppb	U
99-09-2	3-Nitroaniline	13.9	13.9	ppb	U
83-32-9	Acenaphthene	30.6	**362**	ppb	

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06/07/2001

Semivolatiles by EPA 8270B

Sample: K4864-4...continue
Client Sample ID: SS-19
Matrix: Soil
Remarks:
Analyzed Date: 05/26/2001

Type: Grab

Collected: 05/14/2001 13:50
% Solid: 94%

Cas No	Analyte	MDL	Concentration	Units	Q
51-28-5	2,4-Dinitrophenol	20.6	20.6	ppb	U
100-02-7	4-Nitrophenol	46.3	46.3	ppb	U
132-64-9	Dibenzofuran	29.9	**202**	ppb	
121-14-2	2,4-Dinitrotoluene	19.7	19.7	ppb	U
84-66-2	Diethylphthalate	19.1	**14.5**	ppb	J
7005-72-3	4-Chlorophenyl-phenyl ether	34.4	34.4	ppb	U
86-73-7	Fluorene	31.1	**425**	ppb	
100-01-6	4-Nitroaniline	16.0	16.0	ppb	U
534-52-1	4,6-Dinitro-2-methylphenol	27.1	27.1	ppb	U
86-30-6	N-nitrosodiphenylamine	28.5	28.5	ppb	U
101-55-3	4-Bromophenyl-phenylether	26.0	26.0	ppb	U
118-74-1	Hexachlorobenzene	25.5	25.5	ppb	U
87-86-5	Pentachlorophenol	17.3	17.3	ppb	U
85-01-8	Phenanthrene	25.0	**2700**	ppb	
120-12-7	Anthracene	25.5	**896**	ppb	
84-74-2	Di-n-butylphthalate	76.6	**44.0**	ppb	J
206-44-0	Fluoranthene	22.5	**2170**	ppb	
129-00-0	Pyrene	18.7	**2190**	ppb	
85-68-7	Butylbenzylphthalate	16.9	**33.3**	ppb	
91-94-1	3,3'-Dichlorobenzidine	29.4	29.4	ppb	U
56-55-3	Benzo(a)anthracene	17.8	**848**	ppb	
218-01-9	Chrysene	17.7	**845**	ppb	
117-81-7	bis(2-Ethylhexyl)phthalate	115	**173**	ppb	
117-84-0	Di-n-octylphthalate	21.8	**53.9**	ppb	
205-99-2	Benzo(b)fluoranthene	29.1	**993**	ppb	
207-08-9	Benzo(k)fluoranthene	23.6	**404**	ppb	
50-32-8	Benzo(a)pyrene	19.3	**631**	ppb	
193-39-5	Indeno(1,2,3-cd)pyrene	22.6	**198**	ppb	
53-70-3	Dibenzo(a,h)anthracene	21.2	**22.3**	ppb	
191-24-2	Benzo(g,h,i)perylene	18.8	**217**	ppb	

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06/07/2001

Semivolatiles by EPA 8270B

Sample: K4864-5

Client Sample ID: SS-20

Matrix: Soil

Type: Grab

Collected: 05/14/2001 14:00

% Solid: 97.1%

Remarks:

Analyzed Date: 05/23/2001

Cas No	Analyte	MDL	Concentration	Units	Q
108-95-2	Phenol	20.5	20.5	ppb	U
111-44-4	bis(2-Chloroethyl)ether	26.5	26.5	ppb	U
95-57-8	2-Chlorophenol	24.9	24.9	ppb	U
541-73-1	1,3-Dichlorobenzene	27.2	27.2	ppb	U
106-46-7	1,4-Dichlorobenzene	25.8	25.8	ppb	U
100-51-6	Benzyl alcohol	26.0	26.0	ppb	U
95-50-1	1,2-Dichlorobenzene	29.1	29.1	ppb	U
95-48-7	2-Methylphenol	26.1	26.1	ppb	U
108-60-1	bis(2-Chloroisopropyl)ether	27.5	27.5	ppb	U
106-44-5	3,4-Methylphenol	26.1	26.1	ppb	U
621-64-7	N-Nitroso-di-n-propylamine	24.1	24.1	ppb	U
67-72-1	Hexachloroethane	23.1	23.1	ppb	U
98-95-3	Nitrobenzene	28.8	28.8	ppb	U
78-59-1	Isophorone	23.4	23.4	ppb	U
88-75-5	2-Nitrophenol	21.8	21.8	ppb	U
105-67-9	2,4-Dimethylphenol	20.4	20.4	ppb	U
65-85-0	Benzoic acid	17.3	17.3	ppb	U
111-91-1	bis(2-Chloroethoxy)methane	26.8	26.8	ppb	U
120-83-2	2,4-Dichlorophenol	24.1	24.1	ppb	U
120-82-1	1,2,4-Trichlorobenzene	29.4	29.4	ppb	U
91-20-3	Naphthalene	28.4	28.4	ppb	U
106-47-8	4-Chloroaniline	14.6	14.6	ppb	U
87-68-3	Hexachlorobutadiene	27.5	27.5	ppb	U
59-50-7	4-Chloro-3-methylphenol	28.3	28.3	ppb	U
91-57-6	2-Methylnaphthalene	24.2	24.2	ppb	U
77-47-4	Hexachlorocyclopentadiene	12.2	12.2	ppb	U
88-06-2	2,4,6-Trichlorophenol	24.2	24.2	ppb	U
95-95-4	2,4,5-Trichlorophenol	21.6	21.6	ppb	U
91-58-7	2-Chloronaphthalene	28.2	28.2	ppb	U
88-74-4	2-Nitroaniline	21.1	21.1	ppb	U
131-11-3	Dimethyl phthalate	28.1	28.1	ppb	U
208-96-8	Acenaphthylene	27.6	27.6	ppb	U
606-20-2	2,6-Dinitrotoluene	20.9	20.9	ppb	U
99-09-2	3-Nitroaniline	13.5	13.5	ppb	U
83-32-9	Acenaphthene	29.7	29.7	ppb	U

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06/07/2001

Semivolatiles by EPA 8270B

Sample: K4864-5...continue

Client Sample ID: SS-20

Matrix: Soil

Type: Grab

Collected: 05/14/2001 14:00

% Solid: 97.1%

Remarks:

Analyzed Date: 05/23/2001

Cas No	Analyte	MDL	Concentration	Units	Q
51-28-5	2,4-Dinitrophenol	19.9	19.9	ppb	U
100-02-7	4-Nitrophenol	44.8	44.8	ppb	U
132-64-9	Dibenzofuran	28.9	28.9	ppb	U
121-14-2	2,4-Dinitrotoluene	19.1	19.1	ppb	U
84-66-2	Diethylphthalate	18.5	18.5	ppb	U
7005-72-3	4-Chlorophenyl-phenyl ether	33.3	33.3	ppb	U
86-73-7	Fluorene	30.1	30.1	ppb	U
100-01-6	4-Nitroaniline	15.5	15.5	ppb	U
534-52-1	4,6-Dinitro-2-methylphenol	26.2	26.2	ppb	U
86-30-6	N-nitrosodiphenylamine	27.6	27.6	ppb	U
101-55-3	4-Bromophenyl-phenylether	25.1	25.1	ppb	U
118-74-1	Hexachlorobenzene	24.6	24.6	ppb	U
87-86-5	Pentachlorophenol	16.8	16.8	ppb	U
85-01-8	Phenanthrene	24.2	**34.7**	ppb	
120-12-7	Anthracene	24.6	**12.7**	ppb	J
84-74-2	Di-n-butylphthalate	74.2	**66.6**	ppb	J
206-44-0	Fluoranthene	21.8	**72.8**	ppb	
129-00-0	Pyrene	18.1	**91.3**	ppb	
85-68-7	Butylbenzylphthalate	16.4	16.4	ppb	U
91-94-1	3,3'-Dichlorobenzidine	28.4	28.4	ppb	U
56-55-3	Benzo(a)anthracene	17.2	**43.3**	ppb	
218-01-9	Chrysene	17.2	**41.2**	ppb	
117-81-7	bis(2-Ethylhexyl)phthalate	112	**95.8**	ppb	J
117-84-0	Di-n-octylphthalate	21.1	21.1	ppb	U
205-99-2	Benzo(b)fluoranthene	28.2	**38.8**	ppb	
207-08-9	Benzo(k)fluoranthene	22.9	**38.8**	ppb	
50-32-8	Benzo(a)pyrene	18.7	**36.0**	ppb	
193-39-5	Indeno(1,2,3-cd)pyrene	21.8	21.8	ppb	U
53-70-3	Dibenzo(a,h)anthracene	20.5	20.5	ppb	U
191-24-2	Benzo(g,h,i)perylene	18.2	18.2	ppb	U

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06/07/2001

Semivolatiles by EPA 8270B

Sample: K4864-14...continue

Client Sample ID: FB-051401 Collected: 05/14/2001 14:10

Matrix: Liquid Type: Blank

Remarks:

Analyzed Date: 05/22/2001

Cas No	Analyte	MDL	Concentration	Units	Q
51-28-5	2,4-Dinitrophenol	5.80	5.80	ppb	U
100-02-7	4-Nitrophenol	2.12	2.12	ppb	U
132-64-9	Dibenzofuran	0.85	0.85	ppb	U
121-14-2	2,4-Dinitrotoluene	0.47	0.47	ppb	U
84-66-2	Diethylphthalate	9.81	9.81	ppb	U
7005-72-3	4-Chlorophenyl-phenyl ether	1.11	1.11	ppb	U
86-73-7	Fluorene	0.91	0.91	ppb	U
100-01-6	4-Nitroaniline	0.61	0.61	ppb	U
534-52-1	4,6-Dinitro-2-methylphenol	0.50	0.50	ppb	U
86-30-6	N-nitrosodiphenylamine	0.94	0.94	ppb	U
101-55-3	4-Bromophenyl-phenylether	0.79	0.79	ppb	U
118-74-1	Hexachlorobenzene	0.99	0.99	ppb	U
87-86-5	Pentachlorophenol	0.70	0.70	ppb	U
85-01-8	Phenanthrene	0.83	0.83	ppb	U
120-12-7	Anthracene	0.92	0.92	ppb	U
84-74-2	Di-n-butylphthalate	1.55	**0.81**	ppb	J
206-44-0	Fluoranthene	0.70	0.70	ppb	U
129-00-0	Pyrene	0.65	0.65	ppb	U
85-68-7	Butylbenzylphthalate	4.10	4.10	ppb	U
91-94-1	3,3'-Dichlorobenzidine	0.41	0.41	ppb	U
56-55-3	Benzo(a)anthracene	0.62	0.62	ppb	U
218-01-9	Chrysene	0.69	0.69	ppb	U
117-81-7	bis(2-Ethylhexyl)phthalate	1.73	**2.50**	ppb	
117-84-0	Di-n-octylphthalate	0.98	0.98	ppb	U
205-99-2	Benzo(b)fluoranthene	1.54	1.54	ppb	U
207-08-9	Benzo(k)fluoranthene	1.10	1.10	ppb	U
50-32-8	Benzo(a)pyrene	0.77	0.77	ppb	U
193-39-5	Indeno(1,2,3-cd)pyrene	0.61	0.61	ppb	U
53-70-3	Dibenzo(a,h)anthracene	0.61	0.61	ppb	U
191-24-2	Benzo(g,h,i)perylene	0.52	0.52	ppb	U

Environmental Testing Laboratories, Inc.

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Phone - 631-249-1456 Fax - 631-249-8344

06/07/2001

PCB (Aroclor) by EPA 8082/608

Sample: K4864-6

Client Sample ID: PB-3a
Matrix: Soil
Remarks:
Analyzed Date: 05/22/2001

Type: Grab

Collected: 05/14/2001 14:55
% Solid: 92.2%

Cas No	Analyte	MDL	Concentration	Units	Q
12674-11-2	PCB 1016	4.10	4.10	ppb	U
11104-28-2	PCB 1221	17.5	17.5	ppb	U
11141-16-5	PCB 1232	9.25	9.25	ppb	U
53469-21-9	PCB 1242	3.87	3.87	ppb	U
12672-29-6	PCB 1248	8.77	**175**	ppb	
11097-69-1	PCB 1254	2.04	2.04	ppb	U
11096-82-5	PCB 1260	5.81	5.81	ppb	U

Sample: K4864-7

Client Sample ID: PD-1a
Matrix: Soil
Remarks:
Analyzed Date: 05/22/2001

Type: Grab

Collected: 05/14/2001 15:25
% Solid: 95.3%

Cas No	Analyte	MDL	Concentration	Units	Q
12674-11-2	PCB 1016	3.97	3.97	ppb	U
11104-28-2	PCB 1221	16.9	16.9	ppb	U
11141-16-5	PCB 1232	8.95	8.95	ppb	U
53469-21-9	PCB 1242	3.75	3.75	ppb	U
12672-29-6	PCB 1248	8.49	**80.0**	ppb	
11097-69-1	PCB 1254	1.97	1.97	ppb	U
11096-82-5	PCB 1260	5.62	5.62	ppb	U

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06/07/2001

PCB (Aroclor) by EPA 8082/608

Sample: K4864-8
Client Sample ID: PF-2a
Matrix: Soil
Remarks:
Analyzed Date: 05/22/2001

Type: Grab

Collected: 05/14/2001 15:35
% Solid: 94.6%

Cas No	Analyte	MDL	Concentration	Units	Q
12674-11-2	PCB 1016	4.00	4.00	ppb	U
11104-28-2	PCB 1221	17.0	17.0	ppb	U
11141-16-5	PCB 1232	9.02	9.02	ppb	U
53469-21-9	PCB 1242	3.77	3.77	ppb	U
12672-29-6	PCB 1248	8.55	430	ppb	
11097-69-1	PCB 1254	1.99	1.99	ppb	U
11096-82-5	PCB 1260	5.67	5.67	ppb	U

Sample: K4864-9
Client Sample ID: PE-2a
Matrix: Soil
Remarks:
Analyzed Date: 05/22/2001

Type: Grab

Collected: 05/14/2001 15:40
% Solid: 91.2%

Cas No	Analyte	MDL	Concentration	Units	Q
12674-11-2	PCB 1016	4.14	4.14	ppb	U
11104-28-2	PCB 1221	17.7	17.7	ppb	U
11141-16-5	PCB 1232	9.35	9.35	ppb	U
53469-21-9	PCB 1242	3.91	3.91	ppb	U
12672-29-6	PCB 1248	8.87	62.1	ppb	
11097-69-1	PCB 1254	2.06	2.06	ppb	U
11096-82-5	PCB 1260	5.88	5.88	ppb	U

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06/07/2001

PCB (Aroclor) by EPA 8082/608

Sample: K4864-10
Client Sample ID: PE-3a
Matrix: Soil
Remarks:
Analyzed Date: 05/22/2001

Type: Grab

Collected: 05/14/2001 15:45
% Solid: 90.2%

Cas No	Analyte	MDL	Concentration	Units	Q
12674-11-2	PCB 1016	4.19	4.19	ppb	U
11104-28-2	PCB 1221	17.8	17.8	ppb	U
11141-16-5	PCB 1232	9.46	9.46	ppb	U
53469-21-9	PCB 1242	3.96	3.96	ppb	U
12672-29-6	PCB 1248	8.97	222	ppb	
11097-69-1	PCB 1254	2.08	2.08	ppb	U
11096-82-5	PCB 1260	5.94	5.94	ppb	U

Sample: K4864-11
Client Sample ID: PD-2a
Matrix: Soil
Remarks:
Analyzed Date: 05/22/2001

Type: Grab

Collected: 05/14/2001 15:55
% Solid: 92.1%

Cas No	Analyte	MDL	Concentration	Units	Q
12674-11-2	PCB 1016	4.10	4.10	ppb	U
11104-28-2	PCB 1221	17.5	17.5	ppb	U
11141-16-5	PCB 1232	9.26	9.26	ppb	U
53469-21-9	PCB 1242	3.88	3.88	ppb	U
12672-29-6	PCB 1248	8.78	307	ppb	
11097-69-1	PCB 1254	2.04	2.04	ppb	U
11096-82-5	PCB 1260	5.82	5.82	ppb	U

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06/07/2001

PCB (Aroclor) by EPA 8082/608

Sample: K4864-12
Client Sample ID: PD-4a
Matrix: Soil
Remarks:
Analyzed Date: 05/22/2001

Type: Grab

Collected: 05/14/2001 16:00
% Solid: 89.6%

Cas No	Analyte	MDL	Concentration	Units	Q
12674-11-2	PCB 1016	4.22	4.22	ppb	U
11104-28-2	PCB 1221	18.0	18.0	ppb	U
11141-16-5	PCB 1232	9.52	9.52	ppb	U
53469-21-9	PCB 1242	3.98	3.98	ppb	U
12672-29-6	PCB 1248	9.03	9.03	ppb	U
11097-69-1	PCB 1254	2.10	2.10	ppb	U
11096-82-5	PCB 1260	5.98	5.98	ppb	U

Sample: K4864-13
Client Sample ID: PC-3a
Matrix: Soil
Remarks:
Analyzed Date: 05/22/2001

Type: Grab

Collected: 05/14/2001 16:00
% Solid: 95.4%

Cas No	Analyte	MDL	Concentration	Units	Q
12674-11-2	PCB 1016	3.96	3.96	ppb	U
11104-28-2	PCB 1221	16.9	16.9	ppb	U
11141-16-5	PCB 1232	8.94	8.94	ppb	U
53469-21-9	PCB 1242	3.74	3.74	ppb	U
12672-29-6	PCB 1248	8.48	244	ppb	
11097-69-1	PCB 1254	1.97	1.97	ppb	U
11096-82-5	PCB 1260	5.62	5.62	ppb	U

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06/07/2001

PCB (Aroclor) by EPA 8082/608

Sample: K4864-14

Client Sample ID: FB-051401

Collected: 05/14/2001 14:10

Matrix: Liquid

Type: Blank

Remarks:

Analyzed Date: 05/22/2001

Cas No	Analyte	MDL	Concentration	Units	Q
12674-11-2	PCB 1016	0.10	0.10	ppb	U
11104-28-2	PCB 1221	0.070	0.070	ppb	U
11141-16-5	PCB 1232	0.090	0.090	ppb	U
53469-21-9	PCB 1242	0.010	0.010	ppb	U
12672-29-6	PCB 1248	0.020	0.020	ppb	U
11097-69-1	PCB 1254	0.030	0.030	ppb	U
11096-82-5	PCB 1260	0.050	0.050	ppb	U

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06/07/2001

Mercury, Total

Sample: K4864-1

Client Sample ID: SS-16
Matrix: Soil
Remarks:
Analyzed Date: 05/21/2001

Type: Grab

Collected: 05/14/2001 13:15
% Solid: 84%

Cas No	Analyte	MDL	Concentration	Units	Q
7439-97-6	Mercury	0.010	**0.014**	ppm	

Sample: K4864-5

Client Sample ID: SS-20
Matrix: Soil
Remarks:
Analyzed Date: 05/21/2001

Type: Grab

Collected: 05/14/2001 14:00
% Solid: 97.1%

Cas No	Analyte	MDL	Concentration	Units	Q
7439-97-6	Mercury	0.0090	**0.038**	ppm	

Sample: K4864-14

Client Sample ID: FB-051401
Matrix: Liquid
Remarks:
Analyzed Date: 05/15/2001

Type: Blank

Collected: 05/14/2001 14:10

Cas No	Analyte	MDL	Concentration	Units	Q
7439-97-6	Mercury	0.000050	0.000050	ppm	U

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06/07/2001

RCRA Metals

Sample: K4864-1

Client Sample ID: SS-16
Matrix: Soil
Remarks:
Analyzed Date: 06/06/2001

Type: Grab

Collected: 05/14/2001 13:15
% Solid: 84%

Cas No	Analyte	MDL	Concentration	Units	Q
7440-38-2	Arsenic	0.29	0.29	ppm	U
7440-39-3	Barium	0.071	**9.05**	ppm	
7440-43-9	Cadmium	0.071	**0.065**	ppm	J
7440-47-3	Chromium	0.13	**2.67**	ppm	
7439-92-1	Lead	0.13	**19.0**	ppm	
7782-49-2	Selenium	0.28	0.28	ppm	U
7440-22-4	Silver	0.089	0.089	ppm	U

Sample: K4864-5

Client Sample ID: SS-20
Matrix: Soil
Remarks:
Analyzed Date: 06/06/2001

Type: Grab

Collected: 05/14/2001 14:00
% Solid: 97.1%

Cas No	Analyte	MDL	Concentration	Units	Q
7440-38-2	Arsenic	0.25	0.25	ppm	U
7440-39-3	Barium	0.062	**23.5**	ppm	
7440-43-9	Cadmium	0.062	**0.021**	ppm	J
7440-47-3	Chromium	0.11	**9.07**	ppm	
7439-92-1	Lead	0.11	**14.3**	ppm	
7782-49-2	Selenium	0.24	0.24	ppm	U
7440-22-4	Silver	0.077	0.077	ppm	U

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06/07/2001

RCRA Metals

Sample: K4864-14
Client Sample ID: FB-051401
Matrix: Liquid
Remarks:
Analyzed Date: 06/06/2001

Type: Blank

Collected: 05/14/2001 14:10

Cas No	Analyte	MDL	Concentration	Units	Q
7440-38-2	Arsenic	0.0053	0.0053	ppm	U
7440-39-3	Barium	0.0013	0.00044	ppm	J
7440-43-9	Cadmium	0.0013	0.00056	ppm	J
7440-47-3	Chromium	0.0024	0.00011	ppm	J
7439-92-1	Lead	0.0024	0.0024	ppm	U
7782-49-2	Selenium	0.0052	0.0052	ppm	U
7440-22-4	Silver	0.0017	0.00044	ppm	J

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06/07/2001

ORGANIC METHOD QUALIFIERS

Q - Qualifier - specified entries and their meanings are as follows:

U - The analytical result is a non-detect.

J - Indicates an estimated value. The concentration reported was detected below the Method Detection Limit.

B - The analyte was found in the associated method blank as well as the sample. It indicates possible/probable blank contamination and warns the data user to take appropriate action.

E - The concentration of the analyte exceeded the calibration range of the instrument.

D - This flag identifies all compounds identified in an analysis at a secondary dilution.

INORGANIC METHOD QUALIFIERS

C - (Concentration) qualifiers are as follows:

B - Entered if the reported value was obtained from a reading that was less than the Contract Required Detection Limit (CRDL) but greater than or equal to the Instrument Detection Limit (IDL).

U - Entered when the analyte was analyzed for, but not detected.

J - Indicates an estimated value. The concentration reported was detected below the Method Detection Limit.

Q - Qualifier specific entries and their meanings are as follows:

E - Reported value is estimated because of the presence of interferences.

M - (Method) qualifiers are as follows:

A - Flame AA

AS - Semi-automated Spectrophotometric

AV - Automated Cold Vapor AA

C - Manual Spectrophotometric

F - Furnace AA

NR - when the analyte is not required to be analyzed.

P - ICP

T - Titrimetric

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05/29/2001

Custody Document: ***L2620***

Received: 05/15/2001 15:42
Sampled by: Scott Horsnall

Client: ***Blue Waters (11260)***

1610 New Highway
Farmingdale,
NY 11735

Project: ***Island Park***

Washington Avenue
Island Park,
NY

Manager: Tom Spatafora

Respectfully submitted,

Laboratory Manager

NYS Lab ID # 10969
NJ Cert. # 73812
CT Cert. # PH0645
MA Cert. # NY061
PA Cert. # 68-535
VA Cert. # 108
NH Cert. # 252592-BA
RI Cert. # 161

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05/29/2001

Volatiles by EPA 8021B

Sample: L2620-1

Client Sample ID: SS-21

Matrix: Soil

Type: Grab

Collected: 05/15/2001 07:55

% Solid: 92.5%

Remarks: See Case Narrative

Analyzed Date: 05/18/2001

Cas No	Analyte	MDL	Concentration	Units	Q
75-71-8	Dichlorodifluoromethane	0.91	0.91	ppb	U
74-87-3	Chloromethane	0.78	0.78	ppb	U
75-01-4	Vinyl Chloride	0.43	0.43	ppb	U
74-83-9	Bromomethane	0.37	0.37	ppb	U
75-00-3	Chloroethane	0.71	0.71	ppb	U
75-69-4	Trichlorofluoromethane	0.56	0.56	ppb	U
75-35-4	1,1-Dichloroethene	0.69	0.69	ppb	U
75-09-2	Methylene Chloride	0.48	0.48	ppb	U
156-60-5	t-1,2-Dichloroethene	0.32	0.32	ppb	U
75-34-3	1,1-Dichloroethane	0.32	0.32	ppb	U
590-20-7	2,2-Dichloropropane	0.52	0.52	ppb	U
156-59-2	c-1,2-Dichloroethene	0.37	0.37	ppb	U
67-66-3	Chloroform	0.35	0.35	ppb	U
74-97-5	Bromochloromethane	0.37	0.37	ppb	U
71-55-6	1,1,1-Trichloroethane	0.30	0.30	ppb	U
563-58-6	1,1-Dichloropropene	0.95	0.95	ppb	U
56-23-5	Carbon Tetrachloride	0.45	0.45	ppb	U
107-06-2	1,2-Dichloroethane	0.48	0.48	ppb	U
71-43-2	Benzene	0.30	0.30	ppb	U
79-01-6	Trichloroethene	0.43	0.43	ppb	U
78-87-5	1,2-Dichloropropane	0.30	0.30	ppb	U
75-27-4	Bromodichloromethane	0.39	0.39	ppb	U
74-95-3	Dibromomethane	0.67	0.67	ppb	U
10061-01-5	c-1,3-Dichloropropene	0.39	0.39	ppb	U
108-88-3	Toluene	0.43	0.43	ppb	U
10061-02-6	t-1,3-Dichloropropene	0.48	0.48	ppb	U
79-00-5	1,1,2-Trichloroethane	0.41	0.41	ppb	U
142-28-9	1,3-Dichloropropane	0.82	0.82	ppb	U
127-18-4	Tetrachloroethene	0.39	0.39	ppb	U
124-48-1	Dibromochloromethane	0.52	0.52	ppb	U
106-93-4	1,2-Dibromoethane	0.52	0.52	ppb	U
108-90-7	Chlorobenzene	0.28	0.28	ppb	U
630-20-6	1,1,1,2-Tetrachloroethane	0.37	0.37	ppb	U
100-41-4	Ethylbenzene	0.24	0.24	ppb	U
108-38-3	m,p-xylene	0.54	0.54	ppb	U
95-47-6	o-xylene	0.39	0.39	ppb	U

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05/29/2001

Volatiles by EPA 8021B

Sample: L2620-1...continue

Client Sample ID: SS-21

Matrix: Soil

Type: Grab

Collected: 05/15/2001 07:55

% Solid: 92.5%

Remarks: See Case Narrative

Analyzed Date: 05/18/2001

Cas No	Analyte	MDL	Concentration	Units	Q
100-42-5	Styrene	0.39	0.39	ppb	U
98-82-8	Isopropylbenzene	0.22	0.22	ppb	U
75-25-2	Bromoform	0.52	0.52	ppb	U
79-34-5	1,1,2,2-Tetrachloroethane	0.43	0.43	ppb	U
96-18-4	1,2,3-Trichloropropane	1.10	1.10	ppb	U
103-65-1	n-Propylbenzene	0.30	0.30	ppb	U
108-86-1	Bromobenzene	0.37	0.37	ppb	U
108-67-8	1,3,5-Trimethylbenzene	0.22	0.22	ppb	U
95-49-8	2-Chlorotoluene	0.17	0.17	ppb	U
106-43-4	4-Chlorotoluene	0.30	0.30	ppb	U
98-06-6	tert-Butylbenzene	0.32	0.32	ppb	U
95-63-6	1,2,4-Trimethylbenzene	0.43	0.43	ppb	U
135-98-8	sec-Butylbenzene	0.26	0.26	ppb	U
99-87-6	4-Isopropyltoluene	0.39	0.39	ppb	U
541-73-1	1,3-Dichlorobenzene	0.39	0.39	ppb	U
106-46-7	1,4-Dichlorobenzene	0.48	0.48	ppb	U
95-50-1	1,2-Dichlorobenzene	0.28	0.28	ppb	U
104-51-8	n-Butylbenzene	0.30	0.30	ppb	U
96-12-8	1,2-Dibromo-3-chloropropane	1.45	1.45	ppb	U
120-82-1	1,2,4-Trichlorobenzene	0.82	0.82	ppb	U
87-68-3	Hexachlorobutadiene	0.30	0.30	ppb	U
91-20-3	Naphthalene	1.56	20.0	ppb	
87-61-6	1,2,3-Trichlorobenzene	0.80	0.80	ppb	U

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05/29/2001

Volatiles by EPA 8021B

Sample: L2620-2

Client Sample ID: MW-2

Matrix: Liquid

Type: Grab

Collected: 05/15/2001 09:20

Remarks: See Case Narrative

Analyzed Date: 05/24/2001

Cas No	Analyte	MDL	Concentration	Units	Q
75-71-8	Dichlorodifluoromethane	0.49	0.49	ppb	U
74-87-3	Chloromethane	0.49	0.49	ppb	U
75-01-4	Vinyl Chloride	0.10	0.10	ppb	U
74-83-9	Bromomethane	0.43	0.43	ppb	U
75-00-3	Chloroethane	0.61	0.61	ppb	U
75-69-4	Trichlorofluoromethane	0.24	0.24	ppb	U
75-35-4	1,1-Dichloroethene	0.30	0.30	ppb	U
75-09-2	Methylene Chloride	0.54	0.54	ppb	U
156-60-5	t-1,2-Dichloroethene	0.20	0.20	ppb	U
75-34-3	1,1-Dichloroethane	0.22	0.22	ppb	U
590-20-7	2,2-Dichloropropane	0.18	0.18	ppb	U
156-59-2	c-1,2-Dichloroethene	0.21	0.21	ppb	U
67-66-3	Chloroform	0.20	0.20	ppb	U
74-97-5	Bromochloromethane	0.27	0.27	ppb	U
71-55-6	1,1,1-Trichloroethane	0.22	0.22	ppb	U
563-58-6	1,1-Dichloropropene	0.59	0.59	ppb	U
56-23-5	Carbon Tetrachloride	0.25	0.25	ppb	U
107-06-2	1,2-Dichloroethane	0.23	0.23	ppb	U
71-43-2	Benzene	0.16	0.16	ppb	U
79-01-6	Trichloroethene	0.16	0.16	ppb	U
78-87-5	1,2-Dichloropropane	0.36	0.36	ppb	U
75-27-4	Bromodichloromethane	0.15	0.15	ppb	U
74-95-3	Dibromomethane	0.18	0.18	ppb	U
10061-01-5	c-1,3-Dichloropropene	0.16	0.16	ppb	U
108-88-3	Toluene	0.14	0.14	ppb	U
10061-02-6	t-1,3-Dichloropropene	0.080	0.080	ppb	U
79-00-5	1,1,2-Trichloroethane	0.090	0.090	ppb	U
142-28-9	1,3-Dichloropropane	0.20	0.20	ppb	U
127-18-4	Tetrachloroethene	0.24	0.24	ppb	U
124-48-1	Dibromochloromethane	0.11	0.11	ppb	U
106-93-4	1,2-Dibromoethane	0.10	0.10	ppb	U
108-90-7	Chlorobenzene	0.15	0.15	ppb	U
630-20-6	1,1,1,2-Tetrachloroethane	0.18	0.18	ppb	U
100-41-4	Ethylbenzene	0.22	0.22	ppb	U
108-38-3	m,p-xylene	0.42	0.42	ppb	U
95-47-6	o-xylene	0.20	0.20	ppb	U

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05/29/2001

Volatiles by EPA 8021B

Sample: L2620-2...continue
Client Sample ID: MW-2
Matrix: Liquid
Remarks: See Case Narrative
Analyzed Date: 05/24/2001

Type: Grab

Collected: 05/15/2001 09:20

Cas No	Analyte	MDL	Concentration	Units	Q
100-42-5	Styrene	0.17	0.17	ppb	U
98-82-8	Isopropylbenzene	0.25	0.25	ppb	U
75-25-2	Bromoform	0.10	0.10	ppb	U
79-34-5	1,1,2,2-Tetrachloroethane	0.16	0.16	ppb	U
96-18-4	1,2,3-Trichloropropane	0.21	0.21	ppb	U
103-65-1	n-Propylbenzene	0.21	0.21	ppb	U
108-86-1	Bromobenzene	0.24	0.24	ppb	U
108-67-8	1,3,5-Trimethylbenzene	0.20	0.20	ppb	U
95-49-8	2-Chlorotoluene	0.27	0.27	ppb	U
106-43-4	4-Chlorotoluene	0.35	0.35	ppb	U
98-06-6	tert-Butylbenzene	0.24	0.24	ppb	U
95-63-6	1,2,4-Trimethylbenzene	0.17	0.17	ppb	U
135-98-8	sec-Butylbenzene	0.16	0.16	ppb	U
99-87-6	4-Isopropyltoluene	0.24	0.24	ppb	U
541-73-1	1,3-Dichlorobenzene	0.23	0.23	ppb	U
106-46-7	1,4-Dichlorobenzene	0.23	0.23	ppb	U
95-50-1	1,2-Dichlorobenzene	0.15	0.15	ppb	U
104-51-8	n-Butylbenzene	0.14	0.14	ppb	U
96-12-8	1,2-Dibromo-3-chloropropane	0.33	0.33	ppb	U
120-82-1	1,2,4-Trichlorobenzene	0.22	0.22	ppb	U
87-68-3	Hexachlorobutadiene	0.26	0.26	ppb	U
91-20-3	Naphthalene	0.14	0.14	ppb	U
87-61-6	1,2,3-Trichlorobenzene	0.17	0.17	ppb	U

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05/29/2001

Volatiles by EPA 8021B

Sample: L2620-3

Client Sample ID: MW-1

Matrix: Liquid

Type: Grab

Collected: 05/15/2001 10:00

Remarks: See Case Narrative

Analyzed Date: 05/24/2001

Cas No	Analyte	MDL	Concentration	Units	Q
75-71-8	Dichlorodifluoromethane	0.49	0.49	ppb	U
74-87-3	Chloromethane	0.49	0.49	ppb	U
75-01-4	Vinyl Chloride	0.10	0.10	ppb	U
74-83-9	Bromomethane	0.43	0.43	ppb	U
75-00-3	Chloroethane	0.61	0.61	ppb	U
75-69-4	Trichlorofluoromethane	0.24	0.24	ppb	U
75-35-4	1,1-Dichloroethene	0.30	0.30	ppb	U
75-09-2	Methylene Chloride	0.54	0.54	ppb	U
156-60-5	t-1,2-Dichloroethene	0.20	0.20	ppb	U
75-34-3	1,1-Dichloroethane	0.22	0.22	ppb	U
590-20-7	2,2-Dichloropropane	0.18	0.18	ppb	U
156-59-2	c-1,2-Dichloroethene	0.21	0.21	ppb	U
67-66-3	Chloroform	0.20	0.20	ppb	U
74-97-5	Bromochloromethane	0.27	0.27	ppb	U
71-55-6	1,1,1-Trichloroethane	0.22	0.22	ppb	U
563-58-6	1,1-Dichloropropene	0.59	0.59	ppb	U
56-23-5	Carbon Tetrachloride	0.25	0.25	ppb	U
107-06-2	1,2-Dichloroethane	0.23	0.23	ppb	U
71-43-2	Benzene	0.16	0.16	ppb	U
79-01-6	Trichloroethene	0.16	0.16	ppb	U
78-87-5	1,2-Dichloropropane	0.36	0.36	ppb	U
75-27-4	Bromodichloromethane	0.15	0.15	ppb	U
74-95-3	Dibromomethane	0.18	0.18	ppb	U
10061-01-5	c-1,3-Dichloropropene	0.16	0.16	ppb	U
108-88-3	Toluene	0.14	0.14	ppb	U
10061-02-6	t-1,3-Dichloropropene	0.080	0.080	ppb	U
79-00-5	1,1,2-Trichloroethane	0.090	0.090	ppb	U
142-28-9	1,3-Dichloropropane	0.20	0.20	ppb	U
127-18-4	Tetrachloroethene	0.24	0.24	ppb	U
124-48-1	Dibromochloromethane	0.11	0.11	ppb	U
106-93-4	1,2-Dibromoethane	0.10	0.10	ppb	U
108-90-7	Chlorobenzene	0.15	0.15	ppb	U
630-20-6	1,1,1,2-Tetrachloroethane	0.18	0.18	ppb	U
100-41-4	Ethylbenzene	0.22	0.22	ppb	U
108-38-3	m,p-xylene	0.42	0.42	ppb	U
95-47-6	o-xylene	0.20	0.20	ppb	U

Environmental Testing Laboratories, Inc.

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05/29/2001

Volatiles by EPA 8021B

Sample: L2620-3...continue

Client Sample ID: MW-1

Matrix: Liquid

Type: Grab

Collected: 05/15/2001 10:00

Remarks: See Case Narrative

Analyzed Date: 05/24/2001

Cas No	Analyte	MDL	Concentration	Units	Q
100-42-5	Styrene	0.17	0.17	ppb	U
98-82-8	Isopropylbenzene	0.25	0.25	ppb	U
75-25-2	Bromoform	0.10	0.10	ppb	U
79-34-5	1,1,2,2-Tetrachloroethane	0.16	0.16	ppb	U
96-18-4	1,2,3-Trichloropropane	0.21	0.21	ppb	U
103-65-1	n-Propylbenzene	0.21	0.21	ppb	U
108-86-1	Bromobenzene	0.24	0.24	ppb	U
108-67-8	1,3,5-Trimethylbenzene	0.20	0.20	ppb	U
95-49-8	2-Chlorotoluene	0.27	0.27	ppb	U
106-43-4	4-Chlorotoluene	0.35	0.35	ppb	U
98-06-6	tert-Butylbenzene	0.24	0.24	ppb	U
95-63-6	1,2,4-Trimethylbenzene	0.17	0.17	ppb	U
135-98-8	sec-Butylbenzene	0.16	0.16	ppb	U
99-87-6	4-Isopropyltoluene	0.24	0.24	ppb	U
541-73-1	1,3-Dichlorobenzene	0.23	0.23	ppb	U
106-46-7	1,4-Dichlorobenzene	0.23	0.23	ppb	U
95-50-1	1,2-Dichlorobenzene	0.15	0.15	ppb	U
104-51-8	n-Butylbenzene	0.14	0.14	ppb	U
96-12-8	1,2-Dibromo-3-chloropropane	0.33	0.33	ppb	U
120-82-1	1,2,4-Trichlorobenzene	0.22	0.22	ppb	U
87-68-3	Hexachlorobutadiene	0.26	0.26	ppb	U
91-20-3	Naphthalene	0.14	0.14	ppb	U
87-61-6	1,2,3-Trichlorobenzene	0.17	0.17	ppb	U

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05/29/2001

Volatiles by EPA 8021B

Sample: L2620-4
Client Sample ID: LMW-3
Matrix: Liquid
Remarks: See Case Narrative
Analyzed Date: 05/24/2001

Type: Grab

Collected: 05/15/2001 10:30

Cas No	Analyte	MDL	Concentration	Units	Q
75-71-8	Dichlorodifluoromethane	0.49	0.49	ppb	U
74-87-3	Chloromethane	0.49	0.49	ppb	U
75-01-4	Vinyl Chloride	0.10	0.10	ppb	U
74-83-9	Bromomethane	0.43	0.43	ppb	U
75-00-3	Chloroethane	0.61	0.61	ppb	U
75-69-4	Trichlorofluoromethane	0.24	0.24	ppb	U
75-35-4	1,1-Dichloroethene	0.30	0.30	ppb	U
75-09-2	Methylene Chloride	0.54	0.54	ppb	U
156-60-5	t-1,2-Dichloroethene	0.20	0.20	ppb	U
75-34-3	1,1-Dichloroethane	0.22	0.22	ppb	U
590-20-7	2,2-Dichloropropane	0.18	0.18	ppb	U
156-59-2	c-1,2-Dichloroethene	0.21	0.21	ppb	U
67-66-3	Chloroform	0.20	0.20	ppb	U
74-97-5	Bromochloromethane	0.27	0.27	ppb	U
71-55-6	1,1,1-Trichloroethane	0.22	0.22	ppb	U
563-58-6	1,1-Dichloropropene	0.59	0.59	ppb	U
56-23-5	Carbon Tetrachloride	0.25	0.25	ppb	U
107-06-2	1,2-Dichloroethane	0.23	0.23	ppb	U
71-43-2	Benzene	0.16	0.16	ppb	U
79-01-6	Trichloroethene	0.16	0.16	ppb	U
78-87-5	1,2-Dichloropropane	0.36	0.36	ppb	U
75-27-4	Bromodichloromethane	0.15	0.15	ppb	U
74-95-3	Dibromomethane	0.18	0.18	ppb	U
10061-01-5	c-1,3-Dichloropropene	0.16	0.16	ppb	U
108-88-3	Toluene	0.14	0.14	ppb	U
10061-02-6	t-1,3-Dichloropropene	0.080	0.080	ppb	U
79-00-5	1,1,2-Trichloroethane	0.090	0.090	ppb	U
142-28-9	1,3-Dichloropropane	0.20	0.20	ppb	U
127-18-4	Tetrachloroethene	0.24	0.24	ppb	U
124-48-1	Dibromochloromethane	0.11	0.11	ppb	U
106-93-4	1,2-Dibromoethane	0.10	0.10	ppb	U
108-90-7	Chlorobenzene	0.15	0.15	ppb	U
630-20-6	1,1,1,2-Tetrachloroethane	0.18	0.18	ppb	U
100-41-4	Ethylbenzene	0.22	0.22	ppb	U
108-38-3	m,p-xylene	0.42	0.42	ppb	U
95-47-6	o-xylene	0.20	0.20	ppb	U

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05/29/2001

Volatiles by EPA 8021B

Sample: L2620-4...continue

Client Sample ID: LMW-3

Collected: 05/15/2001 10:30

Matrix: Liquid

Type: Grab

Remarks: See Case Narrative

Analyzed Date: 05/24/2001

Cas No	Analyte	MDL	Concentration	Units	Q
100-42-5	Styrene	0.17	0.17	ppb	U
98-82-8	Isopropylbenzene	0.25	0.25	ppb	U
75-25-2	Bromoform	0.10	0.10	ppb	U
79-34-5	1,1,2,2-Tetrachloroethane	0.16	0.16	ppb	U
96-18-4	1,2,3-Trichloropropane	0.21	0.21	ppb	U
103-65-1	n-Propylbenzene	0.21	0.21	ppb	U
108-86-1	Bromobenzene	0.24	0.24	ppb	U
108-67-8	1,3,5-Trimethylbenzene	0.20	0.20	ppb	U
95-49-8	2-Chlorotoluene	0.27	0.27	ppb	U
106-43-4	4-Chlorotoluene	0.35	0.35	ppb	U
98-06-6	tert-Butylbenzene	0.24	0.24	ppb	U
95-63-6	1,2,4-Trimethylbenzene	0.17	0.43	ppb	
135-98-8	sec-Butylbenzene	0.16	0.16	ppb	U
99-87-6	4-Isopropyltoluene	0.24	0.24	ppb	U
541-73-1	1,3-Dichlorobenzene	0.23	0.23	ppb	U
106-46-7	1,4-Dichlorobenzene	0.23	0.23	ppb	U
95-50-1	1,2-Dichlorobenzene	0.15	0.15	ppb	U
104-51-8	n-Butylbenzene	0.14	0.14	ppb	U
96-12-8	1,2-Dibromo-3-chloropropane	0.33	0.33	ppb	U
120-82-1	1,2,4-Trichlorobenzene	0.22	0.22	ppb	U
87-68-3	Hexachlorobutadiene	0.26	0.26	ppb	U
91-20-3	Naphthalene	0.14	0.14	ppb	U
87-61-6	1,2,3-Trichlorobenzene	0.17	0.17	ppb	U

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05/29/2001

Volatiles by EPA 8021B

Sample: L2620-5

Client Sample ID: OW-1

Matrix: Liquid

Type: Grab

Collected: 05/15/2001 1 1:00

Remarks: See Case Narrative

Analyzed Date: 05/24/2001

Cas No	Analyte	MDL	Concentration	Units	Q
75-71-8	Dichlorodifluoromethane	0.49	0.49	ppb	U
74-87-3	Chloromethane	0.49	0.49	ppb	U
75-01-4	Vinyl Chloride	0.10	0.10	ppb	U
74-83-9	Bromomethane	0.43	0.43	ppb	U
75-00-3	Chloroethane	0.61	0.61	ppb	U
75-69-4	Trichlorofluoromethane	0.24	0.24	ppb	U
75-35-4	1,1-Dichloroethene	0.30	0.30	ppb	U
75-09-2	Methylene Chloride	0.54	0.54	ppb	U
156-60-5	t-1,2-Dichloroethene	0.20	0.20	ppb	U
75-34-3	1,1-Dichloroethane	0.22	0.22	ppb	U
590-20-7	2,2-Dichloropropane	0.18	0.18	ppb	U
156-59-2	c-1,2-Dichloroethene	0.21	0.21	ppb	U
67-66-3	Chloroform	0.20	0.20	ppb	U
74-97-5	Bromochloromethane	0.27	0.27	ppb	U
71-55-6	1,1,1-Trichloroethane	0.22	0.22	ppb	U
563-58-6	1,1-Dichloropropene	0.59	0.59	ppb	U
56-23-5	Carbon Tetrachloride	0.25	0.25	ppb	U
107-06-2	1,2-Dichloroethane	0.23	0.23	ppb	U
71-43-2	Benzene	0.16	0.16	ppb	U
79-01-6	Trichloroethene	0.16	0.16	ppb	U
78-87-5	1,2-Dichloropropane	0.36	0.36	ppb	U
75-27-4	Bromodichloromethane	0.15	0.15	ppb	U
74-95-3	Dibromomethane	0.18	0.18	ppb	U
10061-01-5	c-1,3-Dichloropropene	0.16	0.16	ppb	U
108-88-3	Toluene	0.14	0.14	ppb	U
10061-02-6	t-1,3-Dichloropropene	0.080	0.080	ppb	U
79-00-5	1,1,2-Trichloroethane	0.090	0.090	ppb	U
142-28-9	1,3-Dichloropropane	0.20	0.20	ppb	U
127-18-4	Tetrachloroethene	0.24	0.24	ppb	U
124-48-1	Dibromochloromethane	0.11	0.11	ppb	U
106-93-4	1,2-Dibromoethane	0.10	0.10	ppb	U
108-90-7	Chlorobenzene	0.15	0.15	ppb	U
630-20-6	1,1,1,2-Tetrachloroethane	0.18	0.18	ppb	U
100-41-4	Ethylbenzene	0.22	0.22	ppb	U
108-38-3	m,p-xylene	0.42	0.42	ppb	U
95-47-6	o-xylene	0.20	0.20	ppb	U

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05/29/2001

Volatiles by EPA 8021B

Sample: L2620-5...continue
Client Sample ID: OW-1
Matrix: Liquid
Type: Grab
Collected: 05/15/2001 11:00
Remarks: See Case Narrative
Analyzed Date: 05/24/2001

Cas No	Analyte	MDL	Concentration	Units	Q
100-42-5	Styrene	0.17	0.17	ppb	U
98-82-8	Isopropylbenzene	0.25	0.25	ppb	U
75-25-2	Bromoform	0.10	0.10	ppb	U
79-34-5	1,1,2,2-Tetrachloroethane	0.16	0.16	ppb	U
96-18-4	1,2,3-Trichloropropane	0.21	0.21	ppb	U
103-65-1	n-Propylbenzene	0.21	0.21	ppb	U
108-86-1	Bromobenzene	0.24	0.24	ppb	U
108-67-8	1,3,5-Trimethylbenzene	0.20	0.20	ppb	U
95-49-8	2-Chlorotoluene	0.27	0.27	ppb	U
106-43-4	4-Chlorotoluene	0.35	0.35	ppb	U
98-06-6	tert-Butylbenzene	0.24	0.24	ppb	U
95-63-6	1,2,4-Trimethylbenzene	0.17	0.17	ppb	U
135-98-8	sec-Butylbenzene	0.16	0.16	ppb	U
99-87-6	4-Isopropyltoluene	0.24	0.24	ppb	U
541-73-1	1,3-Dichlorobenzene	0.23	0.23	ppb	U
106-46-7	1,4-Dichlorobenzene	0.23	0.23	ppb	U
95-50-1	1,2-Dichlorobenzene	0.15	0.15	ppb	U
104-51-8	n-Butylbenzene	0.14	0.14	ppb	U
96-12-8	1,2-Dibromo-3-chloropropane	0.33	0.33	ppb	U
120-82-1	1,2,4-Trichlorobenzene	0.22	0.22	ppb	U
87-68-3	Hexachlorobutadiene	0.26	0.26	ppb	U
91-20-3	Naphthalene	0.14	0.14	ppb	U
87-61-6	1,2,3-Trichlorobenzene	0.17	0.17	ppb	U

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05/29/2001

Volatiles by EPA 8021B

Sample: L2620-6
Client Sample ID: LMW-4
Matrix: Liquid
Remarks: See Case Narrative
Analyzed Date: 05/24/2001

Type: Grab

Collected: 05/15/2001 11:30

Cas No	Analyte	MDL	Concentration	Units	Q
75-71-8	Dichlorodifluoromethane	0.49	0.49	ppb	U
74-87-3	Chloromethane	0.49	0.49	ppb	U
75-01-4	Vinyl Chloride	0.10	0.10	ppb	U
74-83-9	Bromomethane	0.43	0.43	ppb	U
75-00-3	Chloroethane	0.61	0.61	ppb	U
75-69-4	Trichlorofluoromethane	0.24	0.24	ppb	U
75-35-4	1,1-Dichloroethene	0.30	0.30	ppb	U
75-09-2	Methylene Chloride	0.54	0.54	ppb	U
156-60-5	t-1,2-Dichloroethene	0.20	0.20	ppb	U
75-34-3	1,1-Dichloroethane	0.22	0.22	ppb	U
590-20-7	2,2-Dichloropropane	0.18	0.18	ppb	U
156-59-2	c-1,2-Dichloroethene	0.21	0.21	ppb	U
67-66-3	Chloroform	0.20	0.20	ppb	U
74-97-5	Bromochloromethane	0.27	0.27	ppb	U
71-55-6	1,1,1-Trichloroethane	0.22	0.22	ppb	U
563-58-6	1,1-Dichloropropene	0.59	0.59	ppb	U
56-23-5	Carbon Tetrachloride	0.25	0.25	ppb	U
107-06-2	1,2-Dichloroethane	0.23	0.23	ppb	U
71-43-2	Benzene	0.16	0.16	ppb	U
79-01-6	Trichloroethene	0.16	0.16	ppb	U
78-87-5	1,2-Dichloropropane	0.36	0.36	ppb	U
75-27-4	Bromodichloromethane	0.15	0.15	ppb	U
74-95-3	Dibromomethane	0.18	0.18	ppb	U
10061-01-5	c-1,3-Dichloropropene	0.16	0.16	ppb	U
108-88-3	Toluene	0.14	0.14	ppb	U
10061-02-6	t-1,3-Dichloropropene	0.080	0.080	ppb	U
79-00-5	1,1,2-Trichloroethane	0.090	0.090	ppb	U
142-28-9	1,3-Dichloropropane	0.20	0.20	ppb	U
127-18-4	Tetrachloroethene	0.24	0.24	ppb	U
124-48-1	Dibromochloromethane	0.11	0.11	ppb	U
106-93-4	1,2-Dibromoethane	0.10	0.10	ppb	U
108-90-7	Chlorobenzene	0.15	0.15	ppb	U
630-20-6	1,1,1,2-Tetrachloroethane	0.18	0.18	ppb	U
100-41-4	Ethylbenzene	0.22	0.22	ppb	U
108-38-3	m,p-xylene	0.42	0.42	ppb	U
95-47-6	o-xylene	0.20	0.20	ppb	U

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05/29/2001

Volatiles by EPA 8021B

Sample: L2620-6...continue

Client Sample ID: LMW-4
Matrix: Liquid
Remarks: See Case Narrative
Analyzed Date: 05/24/2001

Type: Grab

Collected: 05/15/2001 11:30

Cas No	Analyte	MDL	Concentration	Units	Q
100-42-5	Styrene	0.17	0.17	ppb	U
98-82-8	Isopropylbenzene	0.25	0.25	ppb	U
75-25-2	Bromoform	0.10	0.10	ppb	U
79-34-5	1,1,2,2-Tetrachloroethane	0.16	0.16	ppb	U
96-18-4	1,2,3-Trichloropropane	0.21	0.21	ppb	U
103-65-1	n-Propylbenzene	0.21	0.21	ppb	U
108-86-1	Bromobenzene	0.24	0.24	ppb	U
108-67-8	1,3,5-Trimethylbenzene	0.20	0.20	ppb	U
95-49-8	2-Chlorotoluene	0.27	0.27	ppb	U
106-43-4	4-Chlorotoluene	0.35	0.35	ppb	U
98-06-6	tert-Butylbenzene	0.24	0.24	ppb	U
95-63-6	1,2,4-Trimethylbenzene	0.17	0.17	ppb	U
135-98-8	sec-Butylbenzene	0.16	0.16	ppb	U
99-87-6	4-Isopropyltoluene	0.24	0.24	ppb	U
541-73-1	1,3-Dichlorobenzene	0.23	0.23	ppb	U
106-46-7	1,4-Dichlorobenzene	0.23	0.23	ppb	U
95-50-1	1,2-Dichlorobenzene	0.15	0.15	ppb	U
104-51-8	n-Butylbenzene	0.14	0.14	ppb	U
96-12-8	1,2-Dibromo-3-chloropropane	0.33	0.33	ppb	U
120-82-1	1,2,4-Trichlorobenzene	0.22	0.22	ppb	U
87-68-3	Hexachlorobutadiene	0.26	0.26	ppb	U
91-20-3	Naphthalene	0.14	0.14	ppb	U
87-61-6	1,2,3-Trichlorobenzene	0.17	0.17	ppb	U

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05/29/2001

Volatiles by EPA 8021B

Sample: L2620-7

Client Sample ID: W-11

Collected: 05/15/2001 12:05

Matrix: Liquid

Type: Grab

Remarks: See Case Narrative

Analyzed Date: 05/24/2001

Cas No	Analyte	MDL	Concentration	Units	Q
75-71-8	Dichlorodifluoromethane	0.49	0.49	ppb	U
74-87-3	Chloromethane	0.49	0.49	ppb	U
75-01-4	Vinyl Chloride	0.10	0.10	ppb	U
74-83-9	Bromomethane	0.43	0.43	ppb	U
75-00-3	Chloroethane	0.61	0.61	ppb	U
75-69-4	Trichlorofluoromethane	0.24	0.24	ppb	U
75-35-4	1,1-Dichloroethene	0.30	0.30	ppb	U
75-09-2	Methylene Chloride	0.54	0.54	ppb	U
156-60-5	t-1,2-Dichloroethene	0.20	0.20	ppb	U
75-34-3	1,1-Dichloroethane	0.22	0.22	ppb	U
590-20-7	2,2-Dichloropropane	0.18	0.18	ppb	U
156-59-2	c-1,2-Dichloroethene	0.21	0.21	ppb	U
67-66-3	Chloroform	0.20	0.20	ppb	U
74-97-5	Bromochloromethane	0.27	0.27	ppb	U
71-55-6	1,1,1-Trichloroethane	0.22	0.22	ppb	U
563-58-6	1,1-Dichloropropene	0.59	0.59	ppb	U
56-23-5	Carbon Tetrachloride	0.25	0.25	ppb	U
107-06-2	1,2-Dichloroethane	0.23	0.23	ppb	U
71-43-2	Benzene	0.16	0.16	ppb	U
79-01-6	Trichloroethene	0.16	0.16	ppb	U
78-87-5	1,2-Dichloropropane	0.36	0.36	ppb	U
75-27-4	Bromodichloromethane	0.15	0.15	ppb	U
74-95-3	Dibromomethane	0.18	0.18	ppb	U
10061-01-5	c-1,3-Dichloropropene	0.16	0.16	ppb	U
108-88-3	Toluene	0.14	0.14	ppb	U
10061-02-6	t-1,3-Dichloropropene	0.080	0.080	ppb	U
79-00-5	1,1,2-Trichloroethane	0.090	0.090	ppb	U
142-28-9	1,3-Dichloropropane	0.20	0.20	ppb	U
127-18-4	Tetrachloroethene	0.24	0.24	ppb	U
124-48-1	Dibromochloromethane	0.11	0.11	ppb	U
106-93-4	1,2-Dibromoethane	0.10	0.10	ppb	U
108-90-7	Chlorobenzene	0.15	0.15	ppb	U
630-20-6	1,1,1,2-Tetrachloroethane	0.18	0.18	ppb	U
100-41-4	Ethylbenzene	0.22	0.22	ppb	U
108-38-3	m,p-xylene	0.42	0.42	ppb	U
95-47-6	o-xylene	0.20	0.20	ppb	U

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05/29/2001

Volatiles by EPA 8021B

Sample: L2620-7...continue
Client Sample ID: W-11
Matrix: Liquid
Type: Grab
Collected: 05/15/2001 12:05
Remarks: See Case Narrative
Analyzed Date: 05/24/2001

Cas No	Analyte	MDL	Concentration	Units	Q
100-42-5	Styrene	0.17	0.17	ppb	U
98-82-8	Isopropylbenzene	0.25	0.25	ppb	U
75-25-2	Bromoform	0.10	0.10	ppb	U
79-34-5	1,1,2,2-Tetrachloroethane	0.16	0.16	ppb	U
96-18-4	1,2,3-Trichloropropane	0.21	0.21	ppb	U
103-65-1	n-Propylbenzene	0.21	0.21	ppb	U
108-86-1	Bromobenzene	0.24	0.24	ppb	U
108-67-8	1,3,5-Trimethylbenzene	0.20	0.20	ppb	U
95-49-8	2-Chlorotoluene	0.27	0.27	ppb	U
106-43-4	4-Chlorotoluene	0.35	0.35	ppb	U
98-06-6	tert-Butylbenzene	0.24	0.24	ppb	U
95-63-6	1,2,4-Trimethylbenzene	0.17	0.17	ppb	U
135-98-8	sec-Butylbenzene	0.16	0.16	ppb	U
99-87-6	4-Isopropyltoluene	0.24	0.24	ppb	U
541-73-1	1,3-Dichlorobenzene	0.23	0.23	ppb	U
106-46-7	1,4-Dichlorobenzene	0.23	0.23	ppb	U
95-50-1	1,2-Dichlorobenzene	0.15	0.15	ppb	U
104-51-8	n-Butylbenzene	0.14	0.14	ppb	U
96-12-8	1,2-Dibromo-3-chloropropane	0.33	0.33	ppb	U
120-82-1	1,2,4-Trichlorobenzene	0.22	0.22	ppb	U
87-68-3	Hexachlorobutadiene	0.26	0.26	ppb	U
91-20-3	Naphthalene	0.14	0.14	ppb	U
87-61-6	1,2,3-Trichlorobenzene	0.17	0.17	ppb	U

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Volatiles by EPA 8021B

Sample: L2620-8
Client Sample ID: W-12
Matrix: Liquid
Type: Grab
Collected: 05/15/2001 12:55
Remarks: See Case Narrative
Analyzed Date: 05/22/2001

Cas No	Analyte	MDL	Concentration	Units	Q
75-71-8	Dichlorodifluoromethane	0.49	0.49	ppb	U
74-87-3	Chloromethane	0.49	0.49	ppb	U
75-01-4	Vinyl Chloride	0.10	0.10	ppb	U
74-83-9	Bromomethane	0.43	0.43	ppb	U
75-00-3	Chloroethane	0.61	0.61	ppb	U
75-69-4	Trichlorofluoromethane	0.24	0.24	ppb	U
75-35-4	1,1-Dichloroethene	0.30	0.30	ppb	U
75-09-2	Methylene Chloride	0.54	0.54	ppb	U
156-60-5	t-1,2-Dichloroethene	0.20	0.20	ppb	U
75-34-3	1,1-Dichloroethane	0.22	0.22	ppb	U
590-20-7	2,2-Dichloropropane	0.18	0.18	ppb	U
156-59-2	c-1,2-Dichloroethene	0.21	0.21	ppb	U
67-66-3	Chloroform	0.20	0.20	ppb	U
74-97-5	Bromochloromethane	0.27	0.27	ppb	U
71-55-6	1,1,1-Trichloroethane	0.22	0.22	ppb	U
563-58-6	1,1-Dichloropropene	0.59	0.59	ppb	U
56-23-5	Carbon Tetrachloride	0.25	0.25	ppb	U
107-06-2	1,2-Dichloroethane	0.23	0.23	ppb	U
71-43-2	Benzene	0.16	0.16	ppb	U
79-01-6	Trichloroethene	0.16	0.16	ppb	U
78-87-5	1,2-Dichloropropane	0.36	0.36	ppb	U
75-27-4	Bromodichloromethane	0.15	0.15	ppb	U
74-95-3	Dibromomethane	0.18	0.18	ppb	U
10061-01-5	c-1,3-Dichloropropene	0.16	0.16	ppb	U
108-88-3	Toluene	0.14	0.14	ppb	U
10061-02-6	t-1,3-Dichloropropene	0.080	0.080	ppb	U
79-00-5	1,1,2-Trichloroethane	0.090	0.090	ppb	U
142-28-9	1,3-Dichloropropane	0.20	0.20	ppb	U
127-18-4	Tetrachloroethene	0.24	0.24	ppb	U
124-48-1	Dibromochloromethane	0.11	0.11	ppb	U
106-93-4	1,2-Dibromoethane	0.10	0.10	ppb	U
108-90-7	Chlorobenzene	0.15	0.15	ppb	U
630-20-6	1,1,1,2-Tetrachloroethane	0.18	0.18	ppb	U
100-41-4	Ethylbenzene	0.22	0.22	ppb	U
108-38-3	m,p-xylene	0.42	0.42	ppb	U
95-47-6	o-xylene	0.20	0.20	ppb	U

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05/29/2001

Volatiles by EPA 8021B

Sample: L2620-8...continue
Client Sample ID: W-12
Matrix: Liquid
Remarks: See Case Narrative
Analyzed Date: 05/22/2001

Type: Grab

Collected: 05/15/2001 12:55

Cas No	Analyte	MDL	Concentration	Units	Q
100-42-5	Styrene	0.17	0.17	ppb	U
98-82-8	Isopropylbenzene	0.25	0.25	ppb	U
75-25-2	Bromoform	0.10	0.10	ppb	U
79-34-5	1,1,2,2-Tetrachloroethane	0.16	0.16	ppb	U
96-18-4	1,2,3-Trichloropropane	0.21	0.21	ppb	U
103-65-1	n-Propylbenzene	0.21	0.21	ppb	U
108-86-1	Bromobenzene	0.24	0.24	ppb	U
108-67-8	1,3,5-Trimethylbenzene	0.20	0.20	ppb	U
95-49-8	2-Chlorotoluene	0.27	0.27	ppb	U
106-43-4	4-Chlorotoluene	0.35	0.35	ppb	U
98-06-6	tert-Butylbenzene	0.24	0.24	ppb	U
95-63-6	1,2,4-Trimethylbenzene	0.17	0.17	ppb	U
135-98-8	sec-Butylbenzene	0.16	0.16	ppb	U
99-87-6	4-Isopropyltoluene	0.24	0.24	ppb	U
541-73-1	1,3-Dichlorobenzene	0.23	0.23	ppb	U
106-46-7	1,4-Dichlorobenzene	0.23	0.23	ppb	U
95-50-1	1,2-Dichlorobenzene	0.15	0.15	ppb	U
104-51-8	n-Butylbenzene	0.14	0.14	ppb	U
96-12-8	1,2-Dibromo-3-chloropropane	0.33	0.33	ppb	U
120-82-1	1,2,4-Trichlorobenzene	0.22	0.22	ppb	U
87-68-3	Hexachlorobutadiene	0.26	0.26	ppb	U
91-20-3	Naphthalene	0.14	0.14	ppb	U
87-61-6	1,2,3-Trichlorobenzene	0.17	0.17	ppb	U

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05/29/2001

Volatiles by EPA 8021B

Sample: L2620-9

Client Sample ID: W-2

Matrix: Liquid

Type: Grab

Collected: 05/15/2001 13:35

Remarks: See Case Narrative

Analyzed Date: 05/24/2001

Cas No	Analyte	MDL	Concentration	Units	Q
75-71-8	Dichlorodifluoromethane	0.49	0.49	ppb	U
74-87-3	Chloromethane	0.49	0.49	ppb	U
75-01-4	Vinyl Chloride	0.10	0.10	ppb	U
74-83-9	Bromomethane	0.43	0.43	ppb	U
75-00-3	Chloroethane	0.61	0.61	ppb	U
75-69-4	Trichlorofluoromethane	0.24	0.24	ppb	U
75-35-4	1,1-Dichloroethene	0.30	0.30	ppb	U
75-09-2	Methylene Chloride	0.54	0.54	ppb	U
156-60-5	t-1,2-Dichloroethene	0.20	0.20	ppb	U
75-34-3	1,1-Dichloroethane	0.22	0.22	ppb	U
590-20-7	2,2-Dichloropropane	0.18	0.18	ppb	U
156-59-2	c-1,2-Dichloroethene	0.21	0.21	ppb	U
67-66-3	Chloroform	0.20	0.20	ppb	U
74-97-5	Bromochloromethane	0.27	0.27	ppb	U
71-55-6	1,1,1-Trichloroethane	0.22	0.22	ppb	U
563-58-6	1,1-Dichloropropene	0.59	0.59	ppb	U
56-23-5	Carbon Tetrachloride	0.25	0.25	ppb	U
107-06-2	1,2-Dichloroethane	0.23	0.23	ppb	U
71-43-2	Benzene	0.16	0.16	ppb	U
79-01-6	Trichloroethene	0.16	0.16	ppb	U
78-87-5	1,2-Dichloropropane	0.36	0.36	ppb	U
75-27-4	Bromodichloromethane	0.15	0.15	ppb	U
74-95-3	Dibromomethane	0.18	0.18	ppb	U
10061-01-5	c-1,3-Dichloropropene	0.16	0.16	ppb	U
108-88-3	Toluene	0.14	0.14	ppb	U
10061-02-6	t-1,3-Dichloropropene	0.080	0.080	ppb	U
79-00-5	1,1,2-Trichloroethane	0.090	0.090	ppb	U
142-28-9	1,3-Dichloropropane	0.20	0.20	ppb	U
127-18-4	Tetrachloroethene	0.24	0.24	ppb	U
124-48-1	Dibromochloromethane	0.11	0.11	ppb	U
106-93-4	1,2-Dibromoethane	0.10	0.10	ppb	U
108-90-7	Chlorobenzene	0.15	0.15	ppb	U
630-20-6	1,1,1,2-Tetrachloroethane	0.18	0.18	ppb	U
100-41-4	Ethylbenzene	0.22	0.22	ppb	U
108-38-3	m,p-xylene	0.42	0.42	ppb	U
95-47-6	o-xylene	0.20	0.20	ppb	U

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Volatiles by EPA 8021B

Sample: L2620-9...continue
Client Sample ID: W-2
Matrix: Liquid
Remarks: See Case Narrative
Analyzed Date: 05/24/2001

Type: Grab

Collected: 05/15/2001 13:35

Cas No	Analyte	MDL	Concentration	Units	Q
100-42-5	Styrene	0.17	0.17	ppb	U
98-82-8	Isopropylbenzene	0.25	0.25	ppb	U
75-25-2	Bromoform	0.10	0.10	ppb	U
79-34-5	1,1,2,2-Tetrachloroethane	0.16	0.16	ppb	U
96-18-4	1,2,3-Trichloropropane	0.21	0.21	ppb	U
103-65-1	n-Propylbenzene	0.21	0.21	ppb	U
108-86-1	Bromobenzene	0.24	0.24	ppb	U
108-67-8	1,3,5-Trimethylbenzene	0.20	0.20	ppb	U
95-49-8	2-Chlorotoluene	0.27	0.27	ppb	U
106-43-4	4-Chlorotoluene	0.35	0.35	ppb	U
98-06-6	tert-Butylbenzene	0.24	0.24	ppb	U
95-63-6	1,2,4-Trimethylbenzene	0.17	0.17	ppb	U
135-98-8	sec-Butylbenzene	0.16	0.16	ppb	U
99-87-6	4-Isopropyltoluene	0.24	0.24	ppb	U
541-73-1	1,3-Dichlorobenzene	0.23	0.23	ppb	U
106-46-7	1,4-Dichlorobenzene	0.23	0.23	ppb	U
95-50-1	1,2-Dichlorobenzene	0.15	0.15	ppb	U
104-51-8	n-Butylbenzene	0.14	0.14	ppb	U
96-12-8	1,2-Dibromo-3-chloropropane	0.33	0.33	ppb	U
120-82-1	1,2,4-Trichlorobenzene	0.22	0.22	ppb	U
87-68-3	Hexachlorobutadiene	0.26	0.26	ppb	U
91-20-3	Naphthalene	0.14	0.14	ppb	U
87-61-6	1,2,3-Trichlorobenzene	0.17	0.17	ppb	U

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Volatiles by EPA 8021B

Sample: L2620-10

Client Sample ID: MW-3R

Matrix: Liquid

Type: Grab

Collected: 05/15/2001 14:20

Remarks: See Case Narrative

Analyzed Date: 05/24/2001

Cas No	Analyte	MDL	Concentration	Units	Q
75-71-8	Dichlorodifluoromethane	0.49	0.49	ppb	U
74-87-3	Chloromethane	0.49	0.49	ppb	U
75-01-4	Vinyl Chloride	0.10	0.10	ppb	U
74-83-9	Bromomethane	0.43	0.43	ppb	U
75-00-3	Chloroethane	0.61	0.61	ppb	U
75-69-4	Trichlorofluoromethane	0.24	0.24	ppb	U
75-35-4	1,1-Dichloroethene	0.30	0.30	ppb	U
75-09-2	Methylene Chloride	0.54	0.54	ppb	U
156-60-5	t-1,2-Dichloroethene	0.20	0.20	ppb	U
75-34-3	1,1-Dichloroethane	0.22	0.22	ppb	U
590-20-7	2,2-Dichloropropane	0.18	0.18	ppb	U
156-59-2	c-1,2-Dichloroethene	0.21	0.21	ppb	U
67-66-3	Chloroform	0.20	0.20	ppb	U
74-97-5	Bromochloromethane	0.27	0.27	ppb	U
71-55-6	1,1,1-Trichloroethane	0.22	0.22	ppb	U
563-58-6	1,1-Dichloropropene	0.59	0.59	ppb	U
56-23-5	Carbon Tetrachloride	0.25	0.25	ppb	U
107-06-2	1,2-Dichloroethane	0.23	0.23	ppb	U
71-43-2	Benzene	0.16	3.80	ppb	
79-01-6	Trichloroethene	0.16	0.16	ppb	U
78-87-5	1,2-Dichloropropane	0.36	0.36	ppb	U
75-27-4	Bromodichloromethane	0.15	0.15	ppb	U
74-95-3	Dibromomethane	0.18	0.18	ppb	U
10061-01-5	c-1,3-Dichloropropene	0.16	0.16	ppb	U
108-88-3	Toluene	0.14	0.14	ppb	U
10061-02-6	t-1,3-Dichloropropene	0.080	0.080	ppb	U
79-00-5	1,1,2-Trichloroethane	0.090	0.090	ppb	U
142-28-9	1,3-Dichloropropane	0.20	0.20	ppb	U
127-18-4	Tetrachloroethene	0.24	0.24	ppb	U
124-48-1	Dibromochloromethane	0.11	0.11	ppb	U
106-93-4	1,2-Dibromoethane	0.10	0.10	ppb	U
108-90-7	Chlorobenzene	0.15	0.15	ppb	U
630-20-6	1,1,1,2-Tetrachloroethane	0.18	0.18	ppb	U
100-41-4	Ethylbenzene	0.22	0.22	ppb	U
108-38-3	m,p-xylene	0.42	0.42	ppb	U
95-47-6	o-xylene	0.20	0.20	ppb	U

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Volatiles by EPA 8021B

Sample: L2620-10...continue

Client Sample ID: MW-3R

Matrix: Liquid

Type: Grab

Collected: 05/15/2001 14:20

Remarks: See Case Narrative

Analyzed Date: 05/24/2001

Cas No	Analyte	MDL	Concentration	Units	Q
100-42-5	Styrene	0.17	0.17	ppb	U
98-82-8	Isopropylbenzene	0.25	**3.50**	ppb	
75-25-2	Bromoform	0.10	0.10	ppb	U
79-34-5	1,1,2,2-Tetrachloroethane	0.16	0.16	ppb	U
96-18-4	1,2,3-Trichloropropane	0.21	0.21	ppb	U
103-65-1	n-Propylbenzene	0.21	**4.30**	ppb	
108-86-1	Bromobenzene	0.24	0.24	ppb	U
108-67-8	1,3,5-Trimethylbenzene	0.20	0.20	ppb	U
95-49-8	2-Chlorotoluene	0.27	0.27	ppb	U
106-43-4	4-Chlorotoluene	0.35	0.35	ppb	U
98-06-6	tert-Butylbenzene	0.24	0.24	ppb	U
95-63-6	1,2,4-Trimethylbenzene	0.17	0.17	ppb	U
135-98-8	sec-Butylbenzene	0.16	**1.60**	ppb	
99-87-6	4-Isopropyltoluene	0.24	**10.5**	ppb	
541-73-1	1,3-Dichlorobenzene	0.23	0.23	ppb	U
106-46-7	1,4-Dichlorobenzene	0.23	0.23	ppb	U
95-50-1	1,2-Dichlorobenzene	0.15	0.15	ppb	U
104-51-8	n-Butylbenzene	0.14	**0.76**	ppb	
96-12-8	1,2-Dibromo-3-chloropropane	0.33	0.33	ppb	U
120-82-1	1,2,4-Trichlorobenzene	0.22	0.22	ppb	U
87-68-3	Hexachlorobutadiene	0.26	0.26	ppb	U
91-20-3	Naphthalene	0.14	**67.3**	ppb	
87-61-6	1,2,3-Trichlorobenzene	0.17	0.17	ppb	U

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05/29/2001

Volatiles by EPA 8021B

Sample: L2620-11
Client Sample ID: FB-051501
Matrix: Liquid
Type: Blank
Collected: 05/15/2001 13:30
Remarks: See Case Narrative
Analyzed Date: 05/22/2001

Cas No	Analyte	MDL	Concentration	Units	Q
75-71-8	Dichlorodifluoromethane	0.49	0.49	ppb	U
74-87-3	Chloromethane	0.49	0.49	ppb	U
75-01-4	Vinyl Chloride	0.10	0.10	ppb	U
74-83-9	Bromomethane	0.43	0.43	ppb	U
75-00-3	Chloroethane	0.61	0.61	ppb	U
75-69-4	Trichlorofluoromethane	0.24	0.24	ppb	U
75-35-4	1,1-Dichloroethene	0.30	0.30	ppb	U
75-09-2	Methylene Chloride	0.54	0.54	ppb	U
156-60-5	t-1,2-Dichloroethene	0.20	0.20	ppb	U
75-34-3	1,1-Dichloroethane	0.22	0.22	ppb	U
590-20-7	2,2-Dichloropropane	0.18	0.18	ppb	U
156-59-2	c-1,2-Dichloroethene	0.21	0.21	ppb	U
67-66-3	Chloroform	0.20	0.20	ppb	U
74-97-5	Bromochloromethane	0.27	0.27	ppb	U
71-55-6	1,1,1-Trichloroethane	0.22	0.22	ppb	U
563-58-6	1,1-Dichloropropene	0.59	0.59	ppb	U
56-23-5	Carbon Tetrachloride	0.25	0.25	ppb	U
107-06-2	1,2-Dichloroethane	0.23	0.23	ppb	U
71-43-2	Benzene	0.16	0.16	ppb	U
79-01-6	Trichloroethene	0.16	0.16	ppb	U
78-87-5	1,2-Dichloropropane	0.36	0.36	ppb	U
75-27-4	Bromodichloromethane	0.15	0.15	ppb	U
74-95-3	Dibromomethane	0.18	0.18	ppb	U
10061-01-5	c-1,3-Dichloropropene	0.16	0.16	ppb	U
108-88-3	Toluene	0.14	0.14	ppb	U
10061-02-6	t-1,3-Dichloropropene	0.080	0.080	ppb	U
79-00-5	1,1,2-Trichloroethane	0.090	0.090	ppb	U
142-28-9	1,3-Dichloropropane	0.20	0.20	ppb	U
127-18-4	Tetrachloroethene	0.24	0.24	ppb	U
124-48-1	Dibromochloromethane	0.11	0.11	ppb	U
106-93-4	1,2-Dibromoethane	0.10	0.10	ppb	U
108-90-7	Chlorobenzene	0.15	0.15	ppb	U
630-20-6	1,1,1,2-Tetrachloroethane	0.18	0.18	ppb	U
100-41-4	Ethylbenzene	0.22	0.22	ppb	U
108-38-3	m,p-xylene	0.42	0.42	ppb	U
95-47-6	o-xylene	0.20	0.20	ppb	U

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05/29/2001

Volatiles by EPA 8021B

Sample: L2620-11...continue

Client Sample ID: FB-051501
Matrix: Liquid
Remarks: See Case Narrative
Analyzed Date: 05/22/2001

Type: Blank

Collected: 05/15/2001 13:30

Cas No	Analyte	MDL	Concentration	Units	Q
100-42-5	Styrene	0.17	0.17	ppb	U
98-82-8	Isopropylbenzene	0.25	0.25	ppb	U
75-25-2	Bromoform	0.10	0.10	ppb	U
79-34-5	1,1,2,2-Tetrachloroethane	0.16	0.16	ppb	U
96-18-4	1,2,3-Trichloropropane	0.21	0.21	ppb	U
103-65-1	n-Propylbenzene	0.21	0.21	ppb	U
108-86-1	Bromobenzene	0.24	0.24	ppb	U
108-67-8	1,3,5-Trimethylbenzene	0.20	0.20	ppb	U
95-49-8	2-Chlorotoluene	0.27	0.27	ppb	U
106-43-4	4-Chlorotoluene	0.35	0.35	ppb	U
98-06-6	tert-Butylbenzene	0.24	0.24	ppb	U
95-63-6	1,2,4-Trimethylbenzene	0.17	0.17	ppb	U
135-98-8	sec-Butylbenzene	0.16	0.16	ppb	U
99-87-6	4-Isopropyltoluene	0.24	0.24	ppb	U
541-73-1	1,3-Dichlorobenzene	0.23	0.23	ppb	U
106-46-7	1,4-Dichlorobenzene	0.23	0.23	ppb	U
95-50-1	1,2-Dichlorobenzene	0.15	0.15	ppb	U
104-51-8	n-Butylbenzene	0.14	0.14	ppb	U
96-12-8	1,2-Dibromo-3-chloropropane	0.33	0.33	ppb	U
120-82-1	1,2,4-Trichlorobenzene	0.22	0.22	ppb	U
87-68-3	Hexachlorobutadiene	0.26	0.26	ppb	U
91-20-3	Naphthalene	0.14	0.14	ppb	U
87-61-6	1,2,3-Trichlorobenzene	0.17	0.17	ppb	U

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05/29/2001

Volatiles by EPA 8021B

Sample: L2620-12
Client Sample ID: TB-051501
Matrix: Liquid
Remarks: See Case Narrative
Analyzed Date: 05/22/2001

Type: Trip Blank

Collected: 05/15/2001

Cas No	Analyte	MDL	Concentration	Units	Q
75-71-8	Dichlorodifluoromethane	0.49	0.49	ppb	U
74-87-3	Chloromethane	0.49	0.49	ppb	U
75-01-4	Vinyl Chloride	0.10	0.10	ppb	U
74-83-9	Bromomethane	0.43	0.43	ppb	U
75-00-3	Chloroethane	0.61	0.61	ppb	U
75-69-4	Trichlorofluoromethane	0.24	0.24	ppb	U
75-35-4	1,1-Dichloroethene	0.30	0.30	ppb	U
75-09-2	Methylene Chloride	0.54	0.54	ppb	U
156-60-5	t-1,2-Dichloroethene	0.20	0.20	ppb	U
75-34-3	1,1-Dichloroethane	0.22	0.22	ppb	U
590-20-7	2,2-Dichloropropane	0.18	0.18	ppb	U
156-59-2	c-1,2-Dichloroethene	0.21	0.21	ppb	U
67-66-3	Chloroform	0.20	0.20	ppb	U
74-97-5	Bromochloromethane	0.27	0.27	ppb	U
71-55-6	1,1,1-Trichloroethane	0.22	0.22	ppb	U
563-58-6	1,1-Dichloropropene	0.59	0.59	ppb	U
56-23-5	Carbon Tetrachloride	0.25	0.25	ppb	U
107-06-2	1,2-Dichloroethane	0.23	0.23	ppb	U
71-43-2	Benzene	0.16	0.16	ppb	U
79-01-6	Trichloroethene	0.16	0.16	ppb	U
78-87-5	1,2-Dichloropropane	0.36	0.36	ppb	U
75-27-4	Bromodichloromethane	0.15	0.15	ppb	U
74-95-3	Dibromomethane	0.18	0.18	ppb	U
10061-01-5	c-1,3-Dichloropropene	0.16	0.16	ppb	U
108-88-3	Toluene	0.14	0.14	ppb	U
10061-02-6	t-1,3-Dichloropropene	0.080	0.080	ppb	U
79-00-5	1,1,2-Trichloroethane	0.090	0.090	ppb	U
142-28-9	1,3-Dichloropropane	0.20	0.20	ppb	U
127-18-4	Tetrachloroethene	0.24	0.24	ppb	U
124-48-1	Dibromochloromethane	0.11	0.11	ppb	U
106-93-4	1,2-Dibromoethane	0.10	0.10	ppb	U
108-90-7	Chlorobenzene	0.15	0.15	ppb	U
630-20-6	1,1,1,2-Tetrachloroethane	0.18	0.18	ppb	U
100-41-4	Ethylbenzene	0.22	0.22	ppb	U
108-38-3	m,p-xylene	0.42	0.42	ppb	U
95-47-6	o-xylene	0.20	0.20	ppb	U

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05/29/2001

Volatiles by EPA 8021B

Sample: L2620-12...continue
Client Sample ID: TB-051501
Matrix: Liquid
Remarks: See Case Narrative
Analyzed Date: 05/22/2001

Type: Trip Blank

Collected: 05/15/2001

Cas No	Analyte	MDL	Concentration	Units	Q
100-42-5	Styrene	0.17	0.17	ppb	U
98-82-8	Isopropylbenzene	0.25	0.25	ppb	U
75-25-2	Bromoform	0.10	0.10	ppb	U
79-34-5	1,1,2,2-Tetrachloroethane	0.16	0.16	ppb	U
96-18-4	1,2,3-Trichloropropane	0.21	0.21	ppb	U
103-65-1	n-Propylbenzene	0.21	0.21	ppb	U
108-86-1	Bromobenzene	0.24	0.24	ppb	U
108-67-8	1,3,5-Trimethylbenzene	0.20	0.20	ppb	U
95-49-8	2-Chlorotoluene	0.27	0.27	ppb	U
106-43-4	4-Chlorotoluene	0.35	0.35	ppb	U
98-06-6	tert-Butylbenzene	0.24	0.24	ppb	U
95-63-6	1,2,4-Trimethylbenzene	0.17	0.17	ppb	U
135-98-8	sec-Butylbenzene	0.16	0.16	ppb	U
99-87-6	4-Isopropyltoluene	0.24	0.24	ppb	U
541-73-1	1,3-Dichlorobenzene	0.23	0.23	ppb	U
106-46-7	1,4-Dichlorobenzene	0.23	0.23	ppb	U
95-50-1	1,2-Dichlorobenzene	0.15	0.15	ppb	U
104-51-8	n-Butylbenzene	0.14	0.14	ppb	U
96-12-8	1,2-Dibromo-3-chloropropane	0.33	0.33	ppb	U
120-82-1	1,2,4-Trichlorobenzene	0.22	0.22	ppb	U
87-68-3	Hexachlorobutadiene	0.26	0.26	ppb	U
91-20-3	Naphthalene	0.14	0.14	ppb	U
87-61-6	1,2,3-Trichlorobenzene	0.17	0.17	ppb	U

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05/29/2001

Base Neutrals by EPA 8270B

Sample: L2620-1

Client Sample ID: SS-21

Matrix: Soil

Type: Grab

Collected: 05/15/2001 07:55

% Solid: 92.5%

Remarks:

Analyzed Date: 05/26/2001

Cas No	Analyte	MDL	Concentration	Units	Q
110-86-1	Pyridine	172	172	ppb	U
111-44-4	bis(2-Chloroethyl)ether	278	278	ppb	U
541-73-1	1,3-Dichlorobenzene	285	285	ppb	U
106-46-7	1,4-Dichlorobenzene	271	271	ppb	U
100-51-6	Benzyl alcohol	273	273	ppb	U
95-50-1	1,2-Dichlorobenzene	306	306	ppb	U
108-60-1	bis(2-Chloroisopropyl)ether	289	289	ppb	U
621-64-7	N-Nitroso-di-n-propylamine	253	253	ppb	U
67-72-1	Hexachloroethane	243	243	ppb	U
98-95-3	Nitrobenzene	302	302	ppb	U
78-59-1	Isophorone	246	246	ppb	U
65-85-0	Benzoic acid	182	182	ppb	U
111-91-1	bis(2-Chloroethoxy)methane	281	281	ppb	U
120-82-1	1,2,4-Trichlorobenzene	309	309	ppb	U
91-20-3	Naphthalene	298	**4730**	ppb	
106-47-8	4-Chloroaniline	153	153	ppb	U
87-68-3	Hexachlorobutadiene	289	289	ppb	U
91-57-6	2-Methylnaphthalene	254	**17300**	ppb	
77-47-4	Hexachlorocyclopentadiene	128	128	ppb	U
91-58-7	2-Chloronaphthalene	296	296	ppb	U
88-74-4	2-Nitroaniline	222	222	ppb	U
131-11-3	Dimethylphthalate	295	295	ppb	U
208-96-8	Acenaphthylene	290	**598**	ppb	
606-20-2	2,6-Dinitrotoluene	219	219	ppb	U
99-09-2	3-Nitroaniline	141	141	ppb	U
83-32-9	Acenaphthene	311	**2010**	ppb	
132-64-9	Dibenzofuran	304	304	ppb	U
121-14-2	2,4-Dinitrotoluene	200	200	ppb	U
84-66-2	Diethylphthalate	194	194	ppb	U
7005-72-3	4-Chlorophenyl-phenylether	349	349	ppb	U
86-73-7	Fluorene	316	**3420**	ppb	
100-01-6	4-Nitroaniline	163	163	ppb	U
86-30-6	N-nitrosodiphenylamine	289	289	ppb	U
101-55-3	4-Bromophenyl-phenylether	264	264	ppb	U
118-74-1	Hexachlorobenzene	259	259	ppb	U
85-01-8	Phenanthrene	254	6300	ppb	

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05/29/2001

Base Neutrals by EPA 8270B

Sample: L2620-1...continue

Client Sample ID: SS-21

Matrix: Soil Type: Grab

Collected: 05/15/2001 07:55

% Solid: 92.5%

Remarks:

Analyzed Date: 05/26/2001

Cas No	Analyte	MDL	Concentration	Units	Q
120-12-7	Anthracene	259	259	ppb	U
84-74-2	Di-n-butylphthalate	778	**151**	ppb	J
206-44-0	Fluoranthene	229	**465**	ppb	
129-00-0	Pyrene	190	**850**	ppb	
85-68-7	Butylbenzylphthalate	172	172	ppb	U
91-94-1	3,3'-Dichlorobenzidine	298	298	ppb	U
56-55-3	Benzo(a)anthracene	181	**162**	ppb	J
218-01-9	Chrysene	180	**263**	ppb	
117-81-7	Bis(2-Ethylhexyl)phthalate	1170	**144**	ppb	J
117-84-0	Di-n-octylphthalate	222	222	ppb	U
205-99-2	Benzo(b)fluoranthene	296	296	ppb	U
207-08-9	Benzo(k)fluoranthene	240	240	ppb	U
50-32-8	Benzo(a)pyrene	196	196	ppb	U
193-39-5	Indeno(1,2,3-cd)pyrene	229	229	ppb	U
53-70-3	Dibenzo(a,h)anthracene	216	216	ppb	U
191-24-2	Benzo(g,h,i)perylene	191	191	ppb	U

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05/29/2001

Base Neutrals by EPA 8270B

Sample: L2620-2

Client Sample ID: MW-2 Collected: 05/15/2001 09:20

Matrix: Liquid Type: Grab

Remarks:

Analyzed Date: 05/22/2001

Cas No	Analyte	MDL	Concentration	Units	Q
110-86-1	Pyridine	0.54	0.54	ppb	U
111-44-4	bis(2-Chloroethyl)ether	0.82	0.82	ppb	U
541-73-1	1,3-Dichlorobenzene	0.84	0.84	ppb	U
106-46-7	1,4-Dichlorobenzene	0.85	0.85	ppb	U
100-51-6	Benzyl alcohol	0.92	0.92	ppb	U
95-50-1	1,2-Dichlorobenzene	0.83	0.83	ppb	U
108-60-1	bis(2-Chloroisopropyl)ether	1.00	1.00	ppb	U
621-64-7	N-Nitroso-di-n-propylamine	0.86	0.86	ppb	U
67-72-1	Hexachloroethane	0.90	0.90	ppb	U
98-95-3	Nitrobenzene	0.89	0.89	ppb	U
78-59-1	Isophorone	0.76	0.76	ppb	U
65-85-0	Benzoic acid	0.66	0.66	ppb	U
111-91-1	bis(2-Chloroethoxy)methane	0.78	0.78	ppb	U
120-82-1	1,2,4-Trichlorobenzene	0.85	0.85	ppb	U
91-20-3	Naphthalene	0.89	0.89	ppb	U
106-47-8	4-Chloroaniline	0.52	0.52	ppb	U
87-68-3	Hexachlorobutadiene	0.83	0.83	ppb	U
91-57-6	2-Methylnaphthalene	0.76	0.76	ppb	U
77-47-4	Hexachlorocyclopentadiene	0.72	0.72	ppb	U
91-58-7	2-Chloronaphthalene	0.81	0.81	ppb	U
88-74-4	2-Nitroaniline	0.56	0.56	ppb	U
131-11-3	Dimethylphthalate	1.30	1.30	ppb	U
208-96-8	Acenaphthylene	0.81	0.81	ppb	U
606-20-2	2,6-Dinitrotoluene	0.78	0.78	ppb	U
99-09-2	3-Nitroaniline	0.82	0.82	ppb	U
83-32-9	Acenaphthene	0.75	0.95	ppb	
132-64-9	Dibenzofuran	0.67	0.67	ppb	U
121-14-2	2,4-Dinitrotoluene	0.61	0.61	ppb	U
84-66-2	Diethylphthalate	8.14	8.14	ppb	U
7005-72-3	4-Chlorophenyl-phenylether	0.68	0.68	ppb	U
86-73-7	Fluorene	0.69	0.69	ppb	U
100-01-6	4-Nitroaniline	0.56	0.56	ppb	U
86-30-6	N-nitrosodiphenylamine	0.63	0.63	ppb	U
101-55-3	4-Bromophenyl-phenylether	0.61	0.61	ppb	U
118-74-1	Hexachlorobenzene	0.60	0.60	ppb	U
85-01-8	Phenanthrene	0.59	0.59	ppb	U

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05/29/2001

Base Neutrals by EPA 8270B

Sample: L2620-2...continue
Client Sample ID: MW-2
Matrix: Liquid
Remarks:
Analyzed Date: 05/22/2001

Type: Grab

Collected: 05/15/2001 09:20

Cas No	Analyte	MDL	Concentration	Units	Q
120-12-7	Anthracene	0.53	0.53	ppb	U
84-74-2	Di-n-butylphthalate	1.07	0.87	ppb	J
206-44-0	Fluoranthene	0.47	0.47	ppb	U
129-00-0	Pyrene	0.53	0.53	ppb	U
85-68-7	Butylbenzylphthalate	3.29	3.29	ppb	U
91-94-1	3,3'-Dichlorobenzidine	1.20	1.20	ppb	U
56-55-3	Benzo(a)anthracene	0.47	0.47	ppb	U
218-01-9	Chrysene	0.56	0.56	ppb	U
117-81-7	Bis(2-Ethylhexyl)phthalate	1.75	1.50	ppb	J
117-84-0	Di-n-octylphthalate	0.50	0.50	ppb	U
205-99-2	Benzo(b)fluoranthene	0.45	0.45	ppb	U
207-08-9	Benzo(k)fluoranthene	0.29	0.29	ppb	U
50-32-8	Benzo(a)pyrene	0.36	0.36	ppb	U
193-39-5	Indeno(1,2,3-cd)pyrene	0.45	0.45	ppb	U
53-70-3	Dibenzo(a,h)anthracene	0.47	0.47	ppb	U
191-24-2	Benzo(g,h,i)perylene	0.40	0.40	ppb	U

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05/29/2001

Base Neutrals by EPA 8270B

Sample: L2620-3

Client Sample ID: MW-1

Matrix: Liquid

Type: Grab

Collected: 05/15/2001 10:00

Remarks:

Analyzed Date: 05/22/2001

Cas No	Analyte	MDL	Concentration	Units	Q
110-86-1	Pyridine	0.54	0.54	ppb	U
111-44-4	bis(2-Chloroethyl)ether	0.82	0.82	ppb	U
541-73-1	1,3-Dichlorobenzene	0.84	0.84	ppb	U
106-46-7	1,4-Dichlorobenzene	0.85	0.85	ppb	U
100-51-6	Benzyl alcohol	0.92	0.92	ppb	U
95-50-1	1,2-Dichlorobenzene	0.83	0.83	ppb	U
108-60-1	bis(2-Chloroisopropyl)ether	1.00	1.00	ppb	U
621-64-7	N-Nitroso-di-n-propylamine	0.86	0.86	ppb	U
67-72-1	Hexachloroethane	0.90	0.90	ppb	U
98-95-3	Nitrobenzene	0.89	0.89	ppb	U
78-59-1	Isophorone	0.76	0.76	ppb	U
65-85-0	Benzoic acid	0.66	0.66	ppb	U
111-91-1	bis(2-Chloroethoxy)methane	0.78	0.78	ppb	U
120-82-1	1,2,4-Trichlorobenzene	0.85	0.85	ppb	U
91-20-3	Naphthalene	0.89	0.89	ppb	U
106-47-8	4-Chloroaniline	0.52	0.52	ppb	U
87-68-3	Hexachlorobutadiene	0.83	0.83	ppb	U
91-57-6	2-Methylnaphthalene	0.76	0.76	ppb	U
77-47-4	Hexachlorocyclopentadiene	0.72	0.72	ppb	U
91-58-7	2-Chloronaphthalene	0.81	0.81	ppb	U
88-74-4	2-Nitroaniline	0.56	0.56	ppb	U
131-11-3	Dimethylphthalate	1.30	1.30	ppb	U
208-96-8	Acenaphthylene	0.81	0.81	ppb	U
606-20-2	2,6-Dinitrotoluene	0.78	0.78	ppb	U
99-09-2	3-Nitroaniline	0.82	0.82	ppb	U
83-32-9	Acenaphthene	0.75	0.75	ppb	U
132-64-9	Dibenzofuran	0.67	0.67	ppb	U
121-14-2	2,4-Dinitrotoluene	0.61	0.61	ppb	U
84-66-2	Diethylphthalate	8.14	8.14	ppb	U
7005-72-3	4-Chlorophenyl-phenylether	0.68	0.68	ppb	U
86-73-7	Fluorene	0.69	0.69	ppb	U
100-01-6	4-Nitroaniline	0.56	0.56	ppb	U
86-30-6	N-nitrosodiphenylamine	0.63	0.63	ppb	U
101-55-3	4-Bromophenyl-phenylether	0.61	0.61	ppb	U
118-74-1	Hexachlorobenzene	0.60	0.60	ppb	U
85-01-8	Phenanthrene	0.59	0.59	ppb	U

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05/29/2001

Base Neutrals by EPA 8270B

Sample: L2620-3...continue
Client Sample ID: MW-1
Matrix: Liquid
Remarks:
Analyzed Date: 05/22/2001

Type: Grab

Collected: 05/15/2001 10:00

Cas No	Analyte	MDL	Concentration	Units	Q
120-12-7	Anthracene	0.53	0.53	ppb	U
84-74-2	Di-n-butylphthalate	1.07	1.10	ppb	
206-44-0	Fluoranthene	0.47	0.47	ppb	U
129-00-0	Pyrene	0.53	0.53	ppb	U
85-68-7	Butylbenzylphthalate	3.29	3.29	ppb	U
91-94-1	3,3'-Dichlorobenzidine	1.20	1.20	ppb	U
56-55-3	Benzo(a)anthracene	0.47	0.47	ppb	U
218-01-9	Chrysene	0.56	0.56	ppb	U
117-81-7	Bis(2-Ethylhexyl)phthalate	1.75	1.60	ppb	J
117-84-0	Di-n-octylphthalate	0.50	0.50	ppb	U
205-99-2	Benzo(b)fluoranthene	0.45	0.45	ppb	U
207-08-9	Benzo(k)fluoranthene	0.29	0.29	ppb	U
50-32-8	Benzo(a)pyrene	0.36	0.36	ppb	U
193-39-5	Indeno(1,2,3-cd)pyrene	0.45	0.45	ppb	U
53-70-3	Dibenzo(a,h)anthracene	0.47	0.47	ppb	U
191-24-2	Benzo(g,h,i)perylene	0.40	0.40	ppb	U

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05/29/2001

Base Neutrals by EPA 8270B

Sample: L2620-4
Client Sample ID: LMW-3
Matrix: Liquid
Remarks:
Analyzed Date: 05/22/2001

Type: Grab

Collected: 05/15/2001 10:30

Cas No	Analyte	MDL	Concentration	Units	Q
110-86-1	Pyridine	0.54	0.54	ppb	U
111-44-4	bis(2-Chloroethyl)ether	0.82	0.82	ppb	U
541-73-1	1,3-Dichlorobenzene	0.84	0.84	ppb	U
106-46-7	1,4-Dichlorobenzene	0.85	0.85	ppb	U
100-51-6	Benzyl alcohol	0.92	0.92	ppb	U
95-50-1	1,2-Dichlorobenzene	0.83	0.83	ppb	U
108-60-1	bis(2-Chloroisopropyl)ether	1.00	1.00	ppb	U
621-64-7	N-Nitroso-di-n-propylamine	0.86	0.86	ppb	U
67-72-1	Hexachloroethane	0.90	0.90	ppb	U
98-95-3	Nitrobenzene	0.89	0.89	ppb	U
78-59-1	Isophorone	0.76	0.76	ppb	U
65-85-0	Benzoic acid	0.66	0.66	ppb	U
111-91-1	bis(2-Chloroethoxy)methane	0.78	0.78	ppb	U
120-82-1	1,2,4-Trichlorobenzene	0.85	0.85	ppb	U
91-20-3	Naphthalene	0.89	0.89	ppb	U
106-47-8	4-Chloroaniline	0.52	0.52	ppb	U
87-68-3	Hexachlorobutadiene	0.83	0.83	ppb	U
91-57-6	2-Methylnaphthalene	0.76	0.76	ppb	U
77-47-4	Hexachlorocyclopentadiene	0.72	0.72	ppb	U
91-58-7	2-Chloronaphthalene	0.81	0.81	ppb	U
88-74-4	2-Nitroaniline	0.56	0.56	ppb	U
131-11-3	Dimethylphthalate	1.30	1.30	ppb	U
208-96-8	Acenaphthylene	0.81	0.81	ppb	U
606-20-2	2,6-Dinitrotoluene	0.78	0.78	ppb	U
99-09-2	3-Nitroaniline	0.82	0.82	ppb	U
83-32-9	Acenaphthene	0.75	0.75	ppb	U
132-64-9	Dibenzofuran	0.67	0.67	ppb	U
121-14-2	2,4-Dinitrotoluene	0.61	0.61	ppb	U
84-66-2	Diethylphthalate	8.14	8.14	ppb	U
7005-72-3	4-Chlorophenyl-phenylether	0.68	0.68	ppb	U
86-73-7	Fluorene	0.69	0.69	ppb	U
100-01-6	4-Nitroaniline	0.56	0.56	ppb	U
86-30-6	N-nitrosodiphenylamine	0.63	0.63	ppb	U
101-55-3	4-Bromophenyl-phenylether	0.61	0.61	ppb	U
118-74-1	Hexachlorobenzene	0.60	0.60	ppb	U
85-01-8	Phenanthrene	0.59	0.59	ppb	U

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Base Neutrals by EPA 8270B

Sample: L2620-4...continue

Client Sample ID: LMW-3
Matrix: Liquid
Type: Grab
Collected: 05/15/2001 10:30
Remarks:
Analyzed Date: 05/22/2001

Cas No	Analyte	MDL	Concentration	Units	Q
120-12-7	Anthracene	0.53	0.53	ppb	U
84-74-2	Di-n-butylphthalate	1.07	0.74	ppb	J
206-44-0	Fluoranthene	0.47	0.47	ppb	U
129-00-0	Pyrene	0.53	0.53	ppb	U
85-68-7	Butylbenzylphthalate	3.29	3.29	ppb	U
91-94-1	3,3'-Dichlorobenzidine	1.20	1.20	ppb	U
56-55-3	Benzo(a)anthracene	0.47	0.47	ppb	U
218-01-9	Chrysene	0.56	0.56	ppb	U
117-81-7	Bis(2-Ethylhexyl)phthalate	1.75	1.20	ppb	J
117-84-0	Di-n-octylphthalate	0.50	0.50	ppb	U
205-99-2	Benzo(b)fluoranthene	0.45	0.45	ppb	U
207-08-9	Benzo(k)fluoranthene	0.29	0.29	ppb	U
50-32-8	Benzo(a)pyrene	0.36	0.36	ppb	U
193-39-5	Indeno(1,2,3-cd)pyrene	0.45	0.45	ppb	U
53-70-3	Dibenzo(a,h)anthracene	0.47	0.47	ppb	U
191-24-2	Benzo(g,h,i)perylene	0.40	0.40	ppb	U

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05/29/2001

Base Neutrals by EPA 8270B

Sample: L2620-5

Client Sample ID: OW-1

Matrix: Liquid

Type: Grab

Collected: 05/15/2001 11:00

Remarks:

Analyzed Date: 05/22/2001

Cas No	Analyte	MDL	Concentration	Units	Q
110-86-1	Pyridine	0.54	0.54	ppb	U
111-44-4	bis(2-Chloroethyl)ether	0.82	0.82	ppb	U
541-73-1	1,3-Dichlorobenzene	0.84	0.84	ppb	U
106-46-7	1,4-Dichlorobenzene	0.85	0.85	ppb	U
100-51-6	Benzyl alcohol	0.92	0.92	ppb	U
95-50-1	1,2-Dichlorobenzene	0.83	0.83	ppb	U
108-60-1	bis(2-Chloroisopropyl)ether	1.00	1.00	ppb	U
621-64-7	N-Nitroso-di-n-propylamine	0.86	0.86	ppb	U
67-72-1	Hexachloroethane	0.90	0.90	ppb	U
98-95-3	Nitrobenzene	0.89	0.89	ppb	U
78-59-1	Isophorone	0.76	0.76	ppb	U
65-85-0	Benzoic acid	0.66	0.66	ppb	U
111-91-1	bis(2-Chloroethoxy)methane	0.78	0.78	ppb	U
120-82-1	1,2,4-Trichlorobenzene	0.85	0.85	ppb	U
91-20-3	Naphthalene	0.89	0.89	ppb	U
106-47-8	4-Chloroaniline	0.52	0.52	ppb	U
87-68-3	Hexachlorobutadiene	0.83	0.83	ppb	U
91-57-6	2-Methylnaphthalene	0.76	0.76	ppb	U
77-47-4	Hexachlorocyclopentadiene	0.72	0.72	ppb	U
91-58-7	2-Chloronaphthalene	0.81	0.81	ppb	U
88-74-4	2-Nitroaniline	0.56	0.56	ppb	U
131-11-3	Dimethylphthalate	1.30	1.30	ppb	U
208-96-8	Acenaphthylene	0.81	0.81	ppb	U
606-20-2	2,6-Dinitrotoluene	0.78	0.78	ppb	U
99-09-2	3-Nitroaniline	0.82	0.82	ppb	U
83-32-9	Acenaphthene	0.75	0.75	ppb	U
132-64-9	Dibenzofuran	0.67	0.67	ppb	U
121-14-2	2,4-Dinitrotoluene	0.61	0.61	ppb	U
84-66-2	Diethylphthalate	8.14	8.14	ppb	U
7005-72-3	4-Chlorophenyl-phenylether	0.68	0.68	ppb	U
86-73-7	Fluorene	0.69	0.69	ppb	U
100-01-6	4-Nitroaniline	0.56	0.56	ppb	U
86-30-6	N-nitrosodiphenylamine	0.63	0.63	ppb	U
101-55-3	4-Bromophenyl-phenylether	0.61	0.61	ppb	U
118-74-1	Hexachlorobenzene	0.60	0.60	ppb	U
85-01-8	Phenanthrene	0.59	0.59	ppb	U

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Base Neutrals by EPA 8270B

Sample: L2620-5...continue
Client Sample ID: OW-1
Matrix: Liquid
Type: Grab
Collected: 05/15/2001 11:00
Remarks:
Analyzed Date: 05/22/2001

Cas No	Analyte	MDL	Concentration	Units	Q
120-12-7	Anthracene	0.53	0.53	ppb	U
84-74-2	Di-n-butylphthalate	1.07	0.62	ppb	J
206-44-0	Fluoranthene	0.47	0.47	ppb	U
129-00-0	Pyrene	0.53	0.53	ppb	U
85-68-7	Butylbenzylphthalate	3.29	3.29	ppb	U
91-94-1	3,3'-Dichlorobenzidine	1.20	1.20	ppb	U
56-55-3	Benzo(a)anthracene	0.47	0.47	ppb	U
218-01-9	Chrysene	0.56	0.56	ppb	U
117-81-7	Bis(2-Ethylhexyl)phthalate	1.75	0.71	ppb	J
117-84-0	Di-n-octylphthalate	0.50	0.50	ppb	U
205-99-2	Benzo(b)fluoranthene	0.45	0.45	ppb	U
207-08-9	Benzo(k)fluoranthene	0.29	0.29	ppb	U
50-32-8	Benzo(a)pyrene	0.36	0.36	ppb	U
193-39-5	Indeno(1,2,3-cd)pyrene	0.45	0.45	ppb	U
53-70-3	Dibenzo(a,h)anthracene	0.47	0.47	ppb	U
191-24-2	Benzo(g,h,i)perylene	0.40	0.40	ppb	U

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Base Neutrals by EPA 8270B

Sample: L2620-6

Client Sample ID: LMW-4

Collected: 05/15/2001 11:30

Matrix: Liquid

Type: Grab

Remarks:

Analyzed Date: 05/22/2001

Cas No	Analyte	MDL	Concentration	Units	Q
110-86-1	Pyridine	0.54	0.54	ppb	U
111-44-4	bis(2-Chloroethyl)ether	0.82	0.82	ppb	U
541-73-1	1,3-Dichlorobenzene	0.84	0.84	ppb	U
106-46-7	1,4-Dichlorobenzene	0.85	0.85	ppb	U
100-51-6	Benzyl alcohol	0.92	0.92	ppb	U
95-50-1	1,2-Dichlorobenzene	0.83	0.83	ppb	U
108-60-1	bis(2-Chloroisopropyl)ether	1.00	1.00	ppb	U
621-64-7	N-Nitroso-di-n-propylamine	0.86	0.86	ppb	U
67-72-1	Hexachloroethane	0.90	0.90	ppb	U
98-95-3	Nitrobenzene	0.89	0.89	ppb	U
78-59-1	Isophorone	0.76	0.76	ppb	U
65-85-0	Benzoic acid	0.66	0.66	ppb	U
111-91-1	bis(2-Chloroethoxy)methane	0.78	0.78	ppb	U
120-82-1	1,2,4-Trichlorobenzene	0.85	0.85	ppb	U
91-20-3	Naphthalene	0.89	**0.25**	ppb	J
106-47-8	4-Chloroaniline	0.52	0.52	ppb	U
87-68-3	Hexachlorobutadiene	0.83	0.83	ppb	U
91-57-6	2-Methylnaphthalene	0.76	0.76	ppb	U
77-47-4	Hexachlorocyclopentadiene	0.72	0.72	ppb	U
91-58-7	2-Chloronaphthalene	0.81	0.81	ppb	U
88-74-4	2-Nitroaniline	0.56	0.56	ppb	U
131-11-3	Dimethylphthalate	1.30	1.30	ppb	U
208-96-8	Acenaphthylene	0.81	0.81	ppb	U
606-20-2	2,6-Dinitrotoluene	0.78	0.78	ppb	U
99-09-2	3-Nitroaniline	0.82	0.82	ppb	U
83-32-9	Acenaphthene	0.75	0.75	ppb	U
132-64-9	Dibenzofuran	0.67	0.67	ppb	U
121-14-2	2,4-Dinitrotoluene	0.61	0.61	ppb	U
84-66-2	Diethylphthalate	8.14	8.14	ppb	U
7005-72-3	4-Chlorophenyl-phenylether	0.68	0.68	ppb	U
86-73-7	Fluorene	0.69	0.69	ppb	U
100-01-6	4-Nitroaniline	0.56	0.56	ppb	U
86-30-6	N-nitrosodiphenylamine	0.63	0.63	ppb	U
101-55-3	4-Bromophenyl-phenylether	0.61	0.61	ppb	U
118-74-1	Hexachlorobenzene	0.60	0.60	ppb	U
85-01-8	Phenanthrene	0.59	0.59	ppb	U

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Base Neutrals by EPA 8270B

Sample: L2620-6...continue
Client Sample ID: LMW-4 Collected: 05/15/2001 11:30
Matrix: Liquid Type: Grab
Remarks:
Analyzed Date: 05/22/2001

Cas No	Analyte	MDL	Concentration	Units	Q
120-12-7	Anthracene	0.53	0.53	ppb	U
84-74-2	Di-n-butylphthalate	1.07	**0.32**	ppb	J
206-44-0	Fluoranthene	0.47	0.47	ppb	U
129-00-0	Pyrene	0.53	0.53	ppb	U
85-68-7	Butylbenzylphthalate	3.29	3.29	ppb	U
91-94-1	3,3'-Dichlorobenzidine	1.20	1.20	ppb	U
56-55-3	Benzo(a)anthracene	0.47	0.47	ppb	U
218-01-9	Chrysene	0.56	0.56	ppb	U
117-81-7	Bis(2-Ethylhexyl)phthalate	1.75	**0.48**	ppb	J
117-84-0	Di-n-octylphthalate	0.50	0.50	ppb	U
205-99-2	Benzo(b)fluoranthene	0.45	0.45	ppb	U
207-08-9	Benzo(k)fluoranthene	0.29	0.29	ppb	U
50-32-8	Benzo(a)pyrene	0.36	0.36	ppb	U
193-39-5	Indeno(1,2,3-cd)pyrene	0.45	0.45	ppb	U
53-70-3	Dibenzo(a,h)anthracene	0.47	0.47	ppb	U
191-24-2	Benzo(g,h,i)perylene	0.40	0.40	ppb	U

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05/29/2001

Base Neutrals by EPA 8270B

Sample: L2620-7

Client Sample ID: W-11

Matrix: Liquid

Type: Grab

Collected: 05/15/2001 12:05

Remarks: See Case Narrative

Analyzed Date: 05/22/2001

Cas No	Analyte	MDL	Concentration	Units	Q
110-86-1	Pyridine	0.56	0.56	ppb	U
111-44-4	bis(2-Chloroethyl)ether	0.86	0.86	ppb	U
541-73-1	1,3-Dichlorobenzene	1.00	1.00	ppb	U
106-46-7	1,4-Dichlorobenzene	1.08	1.08	ppb	U
100-51-6	Benzyl alcohol	0.86	0.86	ppb	U
95-50-1	1,2-Dichlorobenzene	1.01	1.01	ppb	U
108-60-1	bis(2-Chloroisopropyl)ether	2.21	2.21	ppb	U
621-64-7	N-Nitroso-di-n-propylamine	0.78	0.78	ppb	U
67-72-1	Hexachloroethane	1.07	1.07	ppb	U
98-95-3	Nitrobenzene	1.17	1.17	ppb	U
78-59-1	Isophorone	0.81	0.81	ppb	U
65-85-0	Benzoic acid	3.41	3.41	ppb	U
111-91-1	bis(2-Chloroethoxy)methane	0.82	0.82	ppb	U
120-82-1	1,2,4-Trichlorobenzene	1.16	1.16	ppb	U
91-20-3	Naphthalene	1.01	1.01	ppb	U
106-47-8	4-Chloroaniline	1.03	1.03	ppb	U
87-68-3	Hexachlorobutadiene	1.15	1.15	ppb	U
91-57-6	2-Methylnaphthalene	1.07	1.07	ppb	U
77-47-4	Hexachlorocyclopentadiene	4.41	4.41	ppb	U
91-58-7	2-Chloronaphthalene	1.06	1.06	ppb	U
88-74-4	2-Nitroaniline	0.54	0.54	ppb	U
131-11-3	Dimethylphthalate	1.65	1.65	ppb	U
208-96-8	Acenaphthylene	0.89	**0.23**	ppb	J
606-20-2	2,6-Dinitrotoluene	0.54	0.54	ppb	U
99-09-2	3-Nitroaniline	0.58	0.58	ppb	U
83-32-9	Acenaphthene	0.89	**37.6**	ppb	
132-64-9	Dibenzofuran	0.85	**3.50**	ppb	
121-14-2	2,4-Dinitrotoluene	0.47	0.47	ppb	U
84-66-2	Diethylphthalate	9.81	9.81	ppb	U
7005-72-3	4-Chlorophenyl-phenylether	1.11	1.11	ppb	U
86-73-7	Fluorene	0.91	**8.10**	ppb	
100-01-6	4-Nitroaniline	0.61	0.61	ppb	U
86-30-6	N-nitrosodiphenylamine	0.94	0.94	ppb	U
101-55-3	4-Bromophenyl-phenylether	0.79	0.79	ppb	U
118-74-1	Hexachlorobenzene	0.99	0.99	ppb	U
85-01-8	Phenanthrene	0.83	**5.70**	ppb	

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Base Neutrals by EPA 8270B

Sample: L2620-7...continue

Client Sample ID: W-11
Matrix: Liquid
Remarks: See Case Narrative
Analyzed Date: 05/22/2001

Type: Grab

Collected: 05/15/2001 12:05

Cas No	Analyte	MDL	Concentration	Units	Q
120-12-7	Anthracene	0.92	**6.90**	ppb	
84-74-2	Di-n-butylphthalate	1.55	**0.77**	ppb	J
206-44-0	Fluoranthene	0.70	**11.9**	ppb	
129-00-0	Pyrene	0.65	**7.60**	ppb	
85-68-7	Butylbenzylphthalate	4.10	4.10	ppb	U
91-94-1	3,3'-Dichlorobenzidine	0.41	0.41	ppb	U
56-55-3	Benzo(a)anthracene	0.62	**0.72**	ppb	
218-01-9	Chrysene	0.69	**0.55**	ppb	J
117-81-7	Bis(2-Ethylhexyl)phthalate	1.73	**0.89**	ppb	J
117-84-0	Di-n-octylphthalate	0.98	0.98	ppb	U
205-99-2	Benzo(b)fluoranthene	1.54	1.54	ppb	U
207-08-9	Benzo(k)fluoranthene	1.10	1.10	ppb	U
50-32-8	Benzo(a)pyrene	0.77	0.77	ppb	U
193-39-5	Indeno(1,2,3-cd)pyrene	0.61	0.61	ppb	U
53-70-3	Dibenzo(a,h)anthracene	0.61	0.61	ppb	U
191-24-2	Benzo(g,h,i)perylene	0.52	0.52	ppb	U

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05/29/2001

Base Neutrals by EPA 8270B

Sample: L2620-8

Client Sample ID: W-12

Matrix: Liquid

Type: Grab

Collected: 05/15/2001 12:55

Remarks: See Case Narrative

Analyzed Date: 05/22/2001

Cas No	Analyte	MDL	Concentration	Units	Q
110-86-1	Pyridine	0.54	0.54	ppb	U
111-44-4	bis(2-Chloroethyl)ether	0.82	0.82	ppb	U
541-73-1	1,3-Dichlorobenzene	0.84	0.84	ppb	U
106-46-7	1,4-Dichlorobenzene	0.85	0.85	ppb	U
100-51-6	Benzyl alcohol	0.92	0.92	ppb	U
95-50-1	1,2-Dichlorobenzene	0.83	0.83	ppb	U
108-60-1	bis(2-Chloroisopropyl)ether	1.00	1.00	ppb	U
621-64-7	N-Nitroso-di-n-propylamine	0.86	0.86	ppb	U
67-72-1	Hexachloroethane	0.90	0.90	ppb	U
98-95-3	Nitrobenzene	0.89	0.89	ppb	U
78-59-1	Isophorone	0.76	0.76	ppb	U
65-85-0	Benzoic acid	0.66	0.66	ppb	U
111-91-1	bis(2-Chloroethoxy)methane	0.78	0.78	ppb	U
120-82-1	1,2,4-Trichlorobenzene	0.85	0.85	ppb	U
91-20-3	Naphthalene	0.89	0.89	ppb	U
106-47-8	4-Chloroaniline	0.52	0.52	ppb	U
87-68-3	Hexachlorobutadiene	0.83	0.83	ppb	U
91-57-6	2-Methylnaphthalene	0.76	0.76	ppb	U
77-47-4	Hexachlorocyclopentadiene	0.72	0.72	ppb	U
91-58-7	2-Chloronaphthalene	0.81	0.81	ppb	U
88-74-4	2-Nitroaniline	0.56	0.56	ppb	U
131-11-3	Dimethylphthalate	1.30	1.30	ppb	U
208-96-8	Acenaphthylene	0.81	0.81	ppb	U
606-20-2	2,6-Dinitrotoluene	0.78	0.78	ppb	U
99-09-2	3-Nitroaniline	0.82	0.82	ppb	U
83-32-9	Acenaphthene	0.75	0.75	ppb	U
132-64-9	Dibenzofuran	0.67	0.67	ppb	U
121-14-2	2,4-Dinitrotoluene	0.61	0.61	ppb	U
84-66-2	Diethylphthalate	8.14	8.14	ppb	U
7005-72-3	4-Chlorophenyl-phenylether	0.68	0.68	ppb	U
86-73-7	Fluorene	0.69	0.69	ppb	U
100-01-6	4-Nitroaniline	0.56	0.56	ppb	U
86-30-6	N-nitrosodiphenylamine	0.63	0.63	ppb	U
101-55-3	4-Bromophenyl-phenylether	0.61	0.61	ppb	U
118-74-1	Hexachlorobenzene	0.60	0.60	ppb	U
85-01-8	Phenanthrene	0.59	0.59	ppb	U

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05/29/2001

Base Neutrals by EPA 8270B

Sample: L2620-8...continue
Client Sample ID: W-12
Matrix: Liquid
Type: Grab
Collected: 05/15/2001 12:55
Remarks: See Case Narrative
Analyzed Date: 05/22/2001

Cas No	Analyte	MDL	Concentration	Units	Q
120-12-7	Anthracene	0.53	0.53	ppb	U
84-74-2	Di-n-butylphthalate	1.07	**0.87**	ppb	J
206-44-0	Fluoranthene	0.47	0.47	ppb	U
129-00-0	Pyrene	0.53	0.53	ppb	U
85-68-7	Butylbenzylphthalate	3.29	3.29	ppb	U
91-94-1	3,3'-Dichlorobenzidine	1.20	1.20	ppb	U
56-55-3	Benzo(a)anthracene	0.47	0.47	ppb	U
218-01-9	Chrysene	0.56	0.56	ppb	U
117-81-7	Bis(2-Ethylhexyl)phthalate	1.75	**1.30**	ppb	J
117-84-0	Di-n-octylphthalate	0.50	0.50	ppb	U
205-99-2	Benzo(b)fluoranthene	0.45	0.45	ppb	U
207-08-9	Benzo(k)fluoranthene	0.29	0.29	ppb	U
50-32-8	Benzo(a)pyrene	0.36	0.36	ppb	U
193-39-5	Indeno(1,2,3-cd)pyrene	0.45	0.45	ppb	U
53-70-3	Dibenzo(a,h)anthracene	0.47	0.47	ppb	U
191-24-2	Benzo(g,h,i)perylene	0.40	0.40	ppb	U

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05/29/2001

Base Neutrals by EPA 8270B

Sample: L2620-9
Client Sample ID: W-2
Matrix: Liquid
Remarks:
Analyzed Date: 05/22/2001

Type: Grab

Collected: 05/15/2001 13:35

Cas No	Analyte	MDL	Concentration	Units	Q
110-86-1	Pyridine	0.54	0.54	ppb	U
111-44-4	bis(2-Chloroethyl)ether	0.82	0.82	ppb	U
541-73-1	1,3-Dichlorobenzene	0.84	0.84	ppb	U
106-46-7	1,4-Dichlorobenzene	0.85	0.85	ppb	U
100-51-6	Benzyl alcohol	0.92	0.92	ppb	U
95-50-1	1,2-Dichlorobenzene	0.83	0.83	ppb	U
108-60-1	bis(2-Chloroisopropyl)ether	1.00	1.00	ppb	U
621-64-7	N-Nitroso-di-n-propylamine	0.86	0.86	ppb	U
67-72-1	Hexachloroethane	0.90	0.90	ppb	U
98-95-3	Nitrobenzene	0.89	0.89	ppb	U
78-59-1	Isophorone	0.76	0.76	ppb	U
65-85-0	Benzoic acid	0.66	0.66	ppb	U
111-91-1	bis(2-Chloroethoxy)methane	0.78	0.78	ppb	U
120-82-1	1,2,4-Trichlorobenzene	0.85	0.85	ppb	U
91-20-3	Naphthalene	0.89	0.89	ppb	U
106-47-8	4-Chloroaniline	0.52	0.52	ppb	U
87-68-3	Hexachlorobutadiene	0.83	0.83	ppb	U
91-57-6	2-Methylnaphthalene	0.76	0.76	ppb	U
77-47-4	Hexachlorocyclopentadiene	0.72	0.72	ppb	U
91-58-7	2-Chloronaphthalene	0.81	0.81	ppb	U
88-74-4	2-Nitroaniline	0.56	0.56	ppb	U
131-11-3	Dimethylphthalate	1.30	1.30	ppb	U
208-96-8	Acenaphthylene	0.81	0.81	ppb	U
606-20-2	2,6-Dinitrotoluene	0.78	0.78	ppb	U
99-09-2	3-Nitroaniline	0.82	0.82	ppb	U
83-32-9	Acenaphthene	0.75	0.75	ppb	U
132-64-9	Dibenzofuran	0.67	0.67	ppb	U
121-14-2	2,4-Dinitrotoluene	0.61	0.61	ppb	U
84-66-2	Diethylphthalate	8.14	**3.80**	ppb	J
7005-72-3	4-Chlorophenyl-phenylether	0.68	0.68	ppb	U
86-73-7	Fluorene	0.69	0.69	ppb	U
100-01-6	4-Nitroaniline	0.56	0.56	ppb	U
86-30-6	N-nitrosodiphenylamine	0.63	0.63	ppb	U
101-55-3	4-Bromophenyl-phenylether	0.61	0.61	ppb	U
118-74-1	Hexachlorobenzene	0.60	0.60	ppb	U
85-01-8	Phenanthrene	0.59	0.59	ppb	U

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05/29/2001

Base Neutrals by EPA 8270B

Sample: L2620-9...continue

Client Sample ID: W-2

Collected: 05/15/2001 13:35

Matrix: Liquid

Type: Grab

Remarks:

Analyzed Date: 05/22/2001

Cas No	Analyte	MDL	Concentration	Units	Q
120-12-7	Anthracene	0.53	0.53	ppb	U
84-74-2	Di-n-butylphthalate	1.07	**0.94**	ppb	J
206-44-0	Fluoranthene	0.47	0.47	ppb	U
129-00-0	Pyrene	0.53	0.53	ppb	U
85-68-7	Butylbenzylphthalate	3.29	3.29	ppb	U
91-94-1	3,3'-Dichlorobenzidine	1.20	1.20	ppb	U
56-55-3	Benzo(a)anthracene	0.47	0.47	ppb	U
218-01-9	Chrysene	0.56	0.56	ppb	U
117-81-7	Bis(2-Ethylhexyl)phthalate	1.75	**0.92**	ppb	J
117-84-0	Di-n-octylphthalate	0.50	0.50	ppb	U
205-99-2	Benzo(b)fluoranthene	0.45	0.45	ppb	U
207-08-9	Benzo(k)fluoranthene	0.29	0.29	ppb	U
50-32-8	Benzo(a)pyrene	0.36	0.36	ppb	U
193-39-5	Indeno(1,2,3-cd)pyrene	0.45	0.45	ppb	U
53-70-3	Dibenzo(a,h)anthracene	0.47	0.47	ppb	U
191-24-2	Benzo(g,h,i)perylene	0.40	0.40	ppb	U

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05/29/2001

Base Neutrals by EPA 8270B

Sample: L2620-10

Client Sample ID: MW-3R

Matrix: Liquid

Type: Grab

Collected: 05/15/2001 14:20

Remarks:

Analyzed Date: 05/22/2001

Cas No	Analyte	MDL	Concentration	Units	Q
110-86-1	Pyridine	0.54	0.54	ppb	U
111-44-4	bis(2-Chloroethyl)ether	0.82	0.82	ppb	U
541-73-1	1,3-Dichlorobenzene	0.84	0.84	ppb	U
106-46-7	1,4-Dichlorobenzene	0.85	0.85	ppb	U
100-51-6	Benzyl alcohol	0.92	0.92	ppb	U
95-50-1	1,2-Dichlorobenzene	0.83	0.83	ppb	U
108-60-1	bis(2-Chloroisopropyl)ether	1.00	1.00	ppb	U
621-64-7	N-Nitroso-di-n-propylamine	0.86	0.86	ppb	U
67-72-1	Hexachloroethane	0.90	0.90	ppb	U
98-95-3	Nitrobenzene	0.89	0.89	ppb	U
78-59-1	Isophorone	0.76	0.76	ppb	U
65-85-0	Benzoic acid	0.66	0.66	ppb	U
111-91-1	bis(2-Chloroethoxy)methane	0.78	0.78	ppb	U
120-82-1	1,2,4-Trichlorobenzene	0.85	0.85	ppb	U
91-20-3	Naphthalene	0.89	**53.0**	ppb	
106-47-8	4-Chloroaniline	0.52	0.52	ppb	U
87-68-3	Hexachlorobutadiene	0.83	0.83	ppb	U
91-57-6	2-Methylnaphthalene	0.76	**39.9**	ppb	
77-47-4	Hexachlorocyclopentadiene	0.72	0.72	ppb	U
91-58-7	2-Chloronaphthalene	0.81	0.81	ppb	U
88-74-4	2-Nitroaniline	0.56	0.56	ppb	U
131-11-3	Dimethylphthalate	1.30	1.30	ppb	U
208-96-8	Acenaphthylene	0.81	0.81	ppb	U
606-20-2	2,6-Dinitrotoluene	0.78	0.78	ppb	U
99-09-2	3-Nitroaniline	0.82	0.82	ppb	U
83-32-9	Acenaphthene	0.75	**2.60**	ppb	
132-64-9	Dibenzofuran	0.67	**2.40**	ppb	
121-14-2	2,4-Dinitrotoluene	0.61	0.61	ppb	U
84-66-2	Diethylphthalate	8.14	8.14	ppb	U
7005-72-3	4-Chlorophenyl-phenylether	0.68	0.68	ppb	U
86-73-7	Fluorene	0.69	**2.60**	ppb	
100-01-6	4-Nitroaniline	0.56	0.56	ppb	U
86-30-6	N-nitrosodiphenylamine	0.63	0.63	ppb	U
101-55-3	4-Bromophenyl-phenylether	0.61	0.61	ppb	U
118-74-1	Hexachlorobenzene	0.60	0.60	ppb	U
85-01-8	Phenanthrene	0.59	**1.30**	ppb	

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05/29/2001

Base Neutrals by EPA 8270B

Sample: L2620-10...continue
Client Sample ID: MW-3R
Matrix: Liquid
Remarks:
Analyzed Date: 05/22/2001

Type: Grab

Collected: 05/15/2001 14:20

Cas No	Analyte	MDL	Concentration	Units	Q
120-12-7	Anthracene	0.53	**0.40**	ppb	J
84-74-2	Di-n-butylphthalate	1.07	**1.30**	ppb	
206-44-0	Fluoranthene	0.47	**0.40**	ppb	J
129-00-0	Pyrene	0.53	**0.43**	ppb	J
85-68-7	Butylbenzylphthalate	3.29	3.29	ppb	U
91-94-1	3,3'-Dichlorobenzidine	1.20	1.20	ppb	U
56-55-3	Benzo(a)anthracene	0.47	0.47	ppb	U
218-01-9	Chrysene	0.56	0.56	ppb	U
117-81-7	Bis(2-Ethylhexyl)phthalate	1.75	**1.40**	ppb	J
117-84-0	Di-n-octylphthalate	0.50	0.50	ppb	U
205-99-2	Benzo(b)fluoranthene	0.45	0.45	ppb	U
207-08-9	Benzo(k)fluoranthene	0.29	0.29	ppb	U
50-32-8	Benzo(a)pyrene	0.36	0.36	ppb	U
193-39-5	Indeno(1,2,3-cd)pyrene	0.45	0.45	ppb	U
53-70-3	Dibenzo(a,h)anthracene	0.47	0.47	ppb	U
191-24-2	Benzo(g,h,i)perylene	0.40	0.40	ppb	U

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05/29/2001

Base Neutrals by EPA 8270B

Sample: L2620-11

Client Sample ID: FB-051501

Collected: 05/15/2001 13:30

Matrix: Liquid

Type: Blank

Remarks:

Analyzed Date: 05/22/2001

Cas No	Analyte	MDL	Concentration	Units	Q
110-86-1	Pyridine	0.54	0.54	ppb	U
111-44-4	bis(2-Chloroethyl)ether	0.82	0.82	ppb	U
541-73-1	1,3-Dichlorobenzene	0.84	0.84	ppb	U
106-46-7	1,4-Dichlorobenzene	0.85	0.85	ppb	U
100-51-6	Benzyl alcohol	0.92	0.92	ppb	U
95-50-1	1,2-Dichlorobenzene	0.83	0.83	ppb	U
108-60-1	bis(2-Chloroisopropyl)ether	1.00	1.00	ppb	U
621-64-7	N-Nitroso-di-n-propylamine	0.86	0.86	ppb	U
67-72-1	Hexachloroethane	0.90	0.90	ppb	U
98-95-3	Nitrobenzene	0.89	0.89	ppb	U
78-59-1	Isophorone	0.76	0.76	ppb	U
65-85-0	Benzoic acid	0.66	0.66	ppb	U
111-91-1	bis(2-Chloroethoxy)methane	0.78	0.78	ppb	U
120-82-1	1,2,4-Trichlorobenzene	0.85	0.85	ppb	U
91-20-3	Naphthalene	0.89	0.89	ppb	U
106-47-8	4-Chloroaniline	0.52	0.52	ppb	U
87-68-3	Hexachlorobutadiene	0.83	0.83	ppb	U
91-57-6	2-Methylnaphthalene	0.76	0.76	ppb	U
77-47-4	Hexachlorocyclopentadiene	0.72	0.72	ppb	U
91-58-7	2-Chloronaphthalene	0.81	0.81	ppb	U
88-74-4	2-Nitroaniline	0.56	0.56	ppb	U
131-11-3	Dimethylphthalate	1.30	1.30	ppb	U
208-96-8	Acenaphthylene	0.81	0.81	ppb	U
606-20-2	2,6-Dinitrotoluene	0.78	0.78	ppb	U
99-09-2	3-Nitroaniline	0.82	0.82	ppb	U
83-32-9	Acenaphthene	0.75	0.75	ppb	U
132-64-9	Dibenzofuran	0.67	0.67	ppb	U
121-14-2	2,4-Dinitrotoluene	0.61	0.61	ppb	U
84-66-2	Diethylphthalate	8.14	8.14	ppb	U
7005-72-3	4-Chlorophenyl-phenylether	0.68	0.68	ppb	U
86-73-7	Fluorene	0.69	0.69	ppb	U
100-01-6	4-Nitroaniline	0.56	0.56	ppb	U
86-30-6	N-nitrosodiphenylamine	0.63	0.63	ppb	U
101-55-3	4-Bromophenyl-phenylether	0.61	0.61	ppb	U
118-74-1	Hexachlorobenzene	0.60	0.60	ppb	U
85-01-8	Phenanthrene	0.59	0.59	ppb	U

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05/29/2001

Base Neutrals by EPA 8270B

Sample: L2620-11...continue
Client Sample ID: FB-051501
Matrix: Liquid
Type: Blank
Collected: 05/15/2001 13:30
Remarks:
Analyzed Date: 05/22/2001

Cas No	Analyte	MDL	Concentration	Units	Q
120-12-7	Anthracene	0.53	0.53	ppb	U
84-74-2	Di-n-butylphthalate	1.07	**0.81**	ppb	J
206-44-0	Fluoranthene	0.47	0.47	ppb	U
129-00-0	Pyrene	0.53	0.53	ppb	U
85-68-7	Butylbenzylphthalate	3.29	3.29	ppb	U
91-94-1	3,3'-Dichlorobenzidine	1.20	1.20	ppb	U
56-55-3	Benzo(a)anthracene	0.47	0.47	ppb	U
218-01-9	Chrysene	0.56	0.56	ppb	U
117-81-7	Bis(2-Ethylhexyl)phthalate	1.75	**0.77**	ppb	J
117-84-0	Di-n-octylphthalate	0.50	0.50	ppb	U
205-99-2	Benzo(b)fluoranthene	0.45	0.45	ppb	U
207-08-9	Benzo(k)fluoranthene	0.29	0.29	ppb	U
50-32-8	Benzo(a)pyrene	0.36	0.36	ppb	U
193-39-5	Indeno(1,2,3-cd)pyrene	0.45	0.45	ppb	U
53-70-3	Dibenzo(a,h)anthracene	0.47	0.47	ppb	U
191-24-2	Benzo(g,h,i)perylene	0.40	0.40	ppb	U

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05/29/2001

CASE NARRATIVE

The following compounds were calibrated at 25, 50, 100, 150 and 200 ppb levels in the initial calibration curve:

Acetone
2-Butanone
4-Methyl-2-pentanone
2-Hexanone

M&P-Xylenes were calibrated at 10, 40, 100, 200 and 300 ppb levels.

All other compounds were calibrated at 5, 20, 50, 100 and 150 ppb levels.

Samples were quantitated using the continuing calibration standard response factor as opposed to the initial calibration average response factor.

Semivolatiles:

Samples L2620-7 and -8 were extracted and analyzed within holding time with results indicating poor recovery of the Base/Neutral surrogates. These samples were re-extracted one day past holding time with results indicating all surrogate recoveries within acceptable limits.

The method blank associated with this custody contained 0.47ppb of di-n-butylphthalate and 0.45ppb of bis(2-ethylhexyl)phthalate, two common laboratory contaminants.

Reviewed by: _____

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05/29/2001

ORGANIC METHOD QUALIFIERS

Q - Qualifier - specified entries and their meanings are as follows:

U - The analytical result is a non-detect.

J - Indicates an estimated value. The concentration reported was detected below the Method Detection Limit.

B - The analyte was found in the associated method blank as well as the sample. It indicates possible/probable blank contamination and warns the data user to take appropriate action.

E - The concentration of the analyte exceeded the calibration range of the instrument.

D - This flag identifies all compounds identified in an analysis at a secondary dilution.

INORGANIC METHOD QUALIFIERS

C - (Concentration) qualifiers are as follows:

B - Entered if the reported value was obtained from a reading that was less than the Contract Required Detection Limit (CRDL) but greater than or equal to the Instrument Detection Limit (IDL).

U - Entered when the analyte was analyzed for, but not detected.

J - Indicates an estimated value. The concentration reported was detected below the Method Detection Limit.

Q - Qualifier specific entries and their meanings are as follows:

E - Reported value is estimated because of the presence of interferences.

M - (Method) qualifiers are as follows:

A - Flame AA

AS - Semi-automated Spectrophotometric

AV - Automated Cold Vapor AA

C - Manual Spectrophotometric

F - Furnace AA

NR - when the analyte is not required to be analyzed.

P - ICP

T - Titrimetric

APPENDIX B

LAWGIBB GROUP

Sample/Core Log

SITE NAME
SITE LOCATION

Boring/Well SS-1 Project/No. 22000-1-0011 Page 1 of 1

Site Location Island Park, NY Drilling Started 5/14/01 Drilling Completed 5/14/01

Total Depth Drilled 2 Feet Hole Diameter 1.5 inches Type of Sample/ Coring Device MACRO-CORE

Length and Diameter of Coring Device 2-FOOT x 1.5 INCHES Sampling Interval 0-2 feet

Land-Surface Elev. _____ feet ☐ Surveyed ☐ Estimated Datum _____

Drilling Fluid Used NA Drilling Method Manual Geoprobe

Drilling Contractor NA Driller _____ Helper _____

Prepared By Scott Horsnall Hammer Weight NA Hammer Drop NA ins.

Sample/Core Depth (feet below land surface) From	To	Core Recovery (feet)	~~Time/Hydraulic Pressure or~~ Blows per 6 Inches	Sample/Core Description
0.0	2.0	2.0		0.0 - 0.8 Sand (m) brown PID ∅ ppm 0.8 - 1.3 Sand (m) black - gray Sl. odor - PID 5-10 ppm 1.3 - 2.0 Silty clay, sand (f) brown. PID ∅ ppm

Samplelg.xls

LAWGIBB GROUP

Sample/Core Log

SITE NAME
SITE LOCATION

Boring/Well SS-2 Project/No. 22000-1-0011 Page 1 of 1

Site Location Island Park, NY Drilling Started 5/14/01 Drilling Completed 5/14/01

Total Depth Drilled 2 Feet Hole Diameter 1.5 inches Type of Sample/ Coring Device MACRO-CORE

Length and Diameter of Coring Device 2 FOOT x 1.5 INCHES Sampling Interval 0-2 feet

Land-Surface Elev. ____ feet ☐ Surveyed ☐ Estimated Datum ____

Drilling Fluid Used NA Drilling Method Manual Geoprobe

Drilling Contractor NA Driller ____ Helper ____

Prepared By Scott Horsnall Hammer Weight NA Hammer Drop NA ins.

Sample/Core Depth (feet below land surface) From	To	Core Recovery (feet)	~~Time/Hydraulic Pressure or~~ Blows per 6 inches	Sample/Core Description
0.0	2.0	2.0		Sand (m) brown, moist
				PID @ ppm

Samplelg.xls

LAWGIBB GROUP

Sample/Core Log

SITE NAME
SITE LOCATION

Boring/Well SS-3 Project/No. 22000-1-0011 Page 1 of 1

Site Location Island Park, NY Drilling Started 5/14/01 Drilling Completed 5/14/01

Total Depth Drilled 2 Feet Hole Diameter 1.5 inches Type of Sample/ Coring Device Macro-Core

Length and Diameter of Coring Device 2 Foot x 1.5 Inches Sampling Interval 0-2 feet

Land-Surface Elev. _____ feet ☐ Surveyed ☐ Estimated Datum _____

Drilling Fluid Used NA Drilling Method Manual Geoprobe

Drilling Contractor NA Driller _____ Helper _____

Prepared By Scott Horsnall Hammer Weight NA Hammer Drop NA ins.

Sample/Core Depth (feet below land surface) From	To	Core Recovery (feet)	~~Time/Hydraulic Pressure or Blows per 6~~ inches	Sample/Core Description
0.0	2.0	2.0		0.0-1.5 Sand (m-c), little gravel fine PID 0 ppm
				1.5-2.0 Sand (m-c) gray-pink trace f. gravel moist-wet PID 0 ppm

Sample1n.xls

LAWGIBB GROUP

Sample/Core Log

SITE NAME
SITE LOCATION

Boring/Well SS-5 Project/No. 22000-1-0011 Page 1 of 1

Site Location Island Park, NY Drilling Started 5/14/01 Drilling Completed 5/14/01

Total Depth Drilled 2 Feet Hole Diameter 1.5 inches Type of Sample/ Coring Device MACRO-CORE

Length and Diameter of Coring Device 2-FOOT x 1.5 INCHES Sampling Interval 0-2 feet

Land-Surface Elev. _____ feet ☐ Surveyed ☐ Estimated Datum _____

Drilling Fluid Used NA Drilling Method Manual Geoprobe

Drilling Contractor NA / Driller _____ Helper _____

Prepared By Scott Horsnall Hammer Weight NA Hammer Drop NA ins.

Sample/Core Depth (feet below land surface) From	To	Core Recovery (feet)	Time/Hydraulic Pressure or Blows per 6 Inches	Sample/Core Description
0.0	2.0	2.0		0.0 - 2.0 Sand (m-f) trace silt, brown-gray moist PID 0-1 ppm Trace faint odor

LAWGIBB GROUP

Sample/Core Log

SITE NAME
SITE LOCATION

Boring/Well SS-6 Project/No. 22000-1-0011 Page 1 of 1

Site Location Island Park, NY Drilling Started 5/14/01 Drilling Completed 5/14/01

Total Depth Drilled 2 Feet Hole Diameter 1.5 inches Type of Sample/ Coring Device MACRO-CORE

Length and Diameter of Coring Device 2 FOOT x 1.5 INCHES Sampling Interval 0-2 feet

Land-Surface Elev. _____ feet ☐ Surveyed ☐ Estimated Datum _____

Drilling Fluid Used NA Drilling Method Manual Geopro

Drilling Contractor NA Driller ✓ Helper ✓

Prepared By Scott Horsnall Hammer Weight NA Hammer Drop NA ins.

Sample/Core Depth (feet below land surface) From	To	Core Recovery (feet)	Time/Hydraulic ~~Pressure~~ or ~~Blows per 6~~ Inches	Sample/Core Description
0.0	2.0	2.0		0.0-1.6 Sand (m-c) little silt PID 0 ppm
				1.6-2.0 Sand (m-f) brown-black PID 0.1 ppm

Samples ok

LAWGIBB GROUP

SITE NAME
SITE LOCATION

Sample/Core Log

Boring/Well SS-7 Project/No. 22000-1-0011 Page 1 of 1

Site Location Island Park, NY Drilling Started 5/14/01 Drilling Completed 5/14/01

Total Depth Drilled 2 Feet Hole Diameter 1.5 inches Type of Sample/ Coring Device MACRO-CORE

Length and Diameter of Coring Device 2-FOOT x 1.5INCHES Sampling Interval 0-2 feet

Land-Surface Elev. _____ feet ☐ Surveyed ☐ Estimated Datum _____

Drilling Fluid Used NA Drilling Method Manual Geoprobe

Drilling Contractor NA Driller _____ Helper _____

Prepared By Scott Horsnall Hammer Weight NA Hammer Drop NA ins.

Sample/Core Depth (feet below land surface) From	To	Core Recovery (feet)	Time/Hydraulic Pressure or Blows per 6 Inches	Sample/Core Description
0.0	2.0	1.8		0.0 - 1.6 Sand (m-c) little silt trace f. gravel PID 0ppm
				1.6 - 1.8 Sand (m) brown-gray moist PID 0ppm

Samplelg.xls

LAWGIBB GROUP

Sample/Core Log

SITE NAME
SITE LOCATION

Boring/Well SS-8 Project/No. 22000-1-0011 Page 1 of 1

Site Location Island Park, NY Drilling Started: 5/14/01 Drilling Completed 5/14/01

Total Depth Drilled 2 Feet Hole Diameter 1.5 inches Type of Sample/ Coring Device MACRO-CORE

Length and Diameter of Coring Device 2 FOOT x 1.5 INCHES Sampling Interval 0-2 feet

Land-Surface Elev. _____ feet ☐ Surveyed ☐ Estimated Datum _____

Drilling Fluid Used NA Drilling Method Manual Geoprobe

Drilling Contractor NA / Driller ( ) Helper ( )

Prepared By Scott Horsnall Hammer Weight NA Hammer Drop NA ins.

Sample/Core Depth (feet below land surface) From	To	Core Recovery (feet)	Time/Hydraulic Pressure or Blows per 6 Inches	Sample/Core Description
0.0	2.0			0.0-1.6 Sand (m-c) brown PID 0 ppm
				1.6-2.0 Sand (m) brown 0 ppm
				Moist

Sample1a.xls

LAWGIBB GROUP

Sample/Core Log

SITE NAME
SITE LOCATION

Boring/Well SS-10 Project/No. 22000-1-0011 Page 1 of 1

Site Location Island Park, NY Drilling Started 5/14/01 Drilling Completed 5/14/01

Total Depth Drilled 2 Feet Hole Diameter 1.5 inches Type of Sample/ Coring Device MACRO-CORE

Length and Diameter of Coring Device 2 FOOT x 1.5 INCHES Sampling Interval 0-2 feet

Land-Surface Elev. _____ feet ☐ Surveyed ☐ Estimated Datum _____

Drilling Fluid Used NA Drilling Method Manual Geoprobe

Drilling Contractor NA Driller _____ Helper _____

Prepared By Scott Horsnall Hammer Weight NA Hammer Drop NA ins.

Sample/Core Depth (feet below land surface) From	To	Core Recovery (feet)	Time/Hydraulic Pressure or Blows per 6 Inches	Sample/Core Description
0.0	2.0	2.0		0.0-1.5 Sand (m) brown PID 0ppm 1.5-2.0 Sand (m) brown-grey moist PID 0ppm

LAWGIBB GROUP

Sample/Core Log

SITE NAME
SITE LOCATION

Boring/Well SS-12 Project/No. 22000-1-0011 Page 1 of 1

Site Location Island Park, NY Drilling Started 5/14/01 Drilling Completed 5/14/01

Total Depth Drilled 2 Feet Hole Diameter 1.5 inches Type of Sample/ Coring Device MACRO-CORE

Length and Diameter of Coring Device 2 FOOT x 1.5 INCHES Sampling Interval 0-2 feet

Land-Surface Elev. _____ feet ☐ Surveyed ☐ Estimated Datum _____

Drilling Fluid Used NA Drilling Method Manual Geoprobe

Drilling Contractor NA / Driller / Helper /

Prepared By Scott Horsnall Hammer Weight NA Hammer Drop NA ins.

Sample/Core Depth (feet below land surface) From	To	Core Recovery (feet)	Time/Hydraulic Pressure or Blows per 6 Inches	Sample/Core Description
0.0.	2.0	1.8		Sand (m-f) with fine gravel
				0 ppm

LAWGIBB GROUP

SITE NAME
SITE LOCATION

Sample/Core Log

Boring/Well SS-13 Project/No. 22000-1-0011 Page 1 of 1

Site Location Island Park, NY Drilling Started 5/14/01 Drilling Completed 5/14/01

Total Depth Drilled 2 Feet Hole Diameter 1.5 inches Type of Sample/ Coring Device MACRO-CORE

Length and Diameter of Coring Device 2-FOOT X 1.5 INCHES Sampling Interval 0-2 feet

Land-Surface Elev. _____ feet ☐ Surveyed ☐ Estimated Datum _____

Drilling Fluid Used NA Drilling Method Manual Geoprobe

Drilling Contractor NA Driller _____ Helper _____

Prepared By SCOTT HORSNALL Hammer Weight NA Hammer Drop NA ins.

Sample/Core Depth (feet below land surface) From	To	Core Recovery (feet)	Time/Hydraulic Pressure or Blows per 6 inches	Sample/Core Description
0.0	2.0	2.0		0.0-1.6 SILT AND SAND (F), WITH (F) GRAVEL, 6 COMM ppm
				1.6-2.0 SAND (M) GRAY, MOIST SATD, ODOR - PID ppm

Sample1a.xls

LAWGIBB GROUP

SITE NAME
SITE LOCATION

Sample/Core Log

Boring/Well SS-14 Project/No. 22000-1-0011 Page 1 of 1

Site Location Island Park, NY Drilling Started 5/14/01 Drilling Completed 5/14/01

Total Depth Drilled 2 Feet Hole Diameter 1.5 inches Type of Sample/ Coring Device MACRO-CORE

Length and Diameter of Coring Device 2 FOOT x 1.5 INCHES Sampling Interval 0-2 feet

Land-Surface Elev. _____ feet ☐ Surveyed ☐ Estimated Datum _____

Drilling Fluid Used NA Drilling Method Manual Geoprobe

Drilling Contractor NA Driller _____ Helper _____

Prepared By SCOTT HORSNALL Hammer Weight NA Hammer Drop NA ins.

Sample/Core Depth (feet below land surface) From	To	Core Recovery (feet)	Time/Hydraulic Pressure or Blows per 6 Inches	Sample/Core Description
0.0	2.0	2.0		0.0 - 1.5 Sand (m-c) brown PID 4 ppm
				1.5 - 2.0 Sand (m-f) brown NO PID readings

Samplelg.xls

LAWGIBB GROUP

SITE NAME
SITE LOCATION

Sample/Core Log

Boring/Well SS-15 Project/No. 22000-1-0011 Page 1 of 1

Site Location Island Park, NY Drilling Started 5/14/01 Drilling Completed 5/14/01

Total Depth Drilled 2 Feet Hole Diameter 1.5 inches Type of Sample/ Coring Device MACRO-CORE

Length and Diameter of Coring Device 2-FOOT x 1.5INCHES Sampling Interval 0-2 feet

Land-Surface Elev. _____ feet ☐ Surveyed ☐ Estimated Datum _____

Drilling Fluid Used NA Drilling Method Manual Geoprobe

Drilling Contractor NA Driller _____ Helper _____

Prepared By Scott Horsnall Hammer Weight NA Hammer Drop NA ins.

Sample/Core Depth (feet below land surface) From	To	Core Recovery (feet)	Time/Hydraulic Pressure or Blows per 6 Inches	Sample/Core Description
0.0	2.0	2.0		Sand (f) to silty SAND brown-gray with moist PID 0 ppm

Sampleld.xls

LAWGIBB GROUP

SITE NAME
SITE LOCATION

Sample/Core Log

Boring/Well SS-16 Project/No. 22000-1-0011 Page 1 of 1

Site Location Island Park, NY Drilling Started 5/14/01 Drilling Completed 5/14/01

Total Depth Drilled 2 Feet Hole Diameter 1.5 inches Type of Sample/ Coring Device MACRO-CORE

Length and Diameter of Coring Device 2-FOOT x 1.5 INCHES Sampling Interval 0-2 feet

Land-Surface Elev. _____ feet ☐ Surveyed ☐ Estimated Datum _____

Drilling Fluid Used NA Drilling Method Manual Geoprobe

Drilling Contractor NA Driller _____ Helper _____

Prepared By Scott Horsnall Hammer Weight NA Hammer Drop NA ins.

Sample/Core Depth (feet below land surface) From	To	Core Recovery (feet)	Time/Hydraulic Pressure or Blows per 6 Inches	Sample/Core Description
0.0	2.0	2.0		0.0 - 1.4 Sand (m) gray-brown 0 ppm
				1.4 - 2.0 Sand (m) gray-black
				PID 5-10 ppm
				wet-moist

LAWGIBB GROUP

Sample/Core Log

SITE NAME
SITE LOCATION

Boring/Well SS-17 Project/No. 22000-1-0011 Page 1 of 1

Site Location Island Park, NY Drilling Started 5/14/01 Drilling Completed 5/14/01

Total Depth Drilled 2 Feet Hole Diameter 1.5 inches Type of Sample/ Coring Device MACRO-CORE

Length and Diameter of Coring Device 2-FOOT X 1.5INCHES Sampling Interval 0-2 feet

Land-Surface Elev. _____ feet ☐ Surveyed ☐ Estimated Datum _____

Drilling Fluid Used NA Drilling Method Manual Geoprob.

Drilling Contractor NA Driller _____ Helper _____

Prepared By Scott Horsnall Hammer Weight NA Hammer Drop NA ins.

Sample/Core Depth (feet below land surface) From	To	Core Recovery (feet)	Time/Hydraulic Pressure or Blows per 6 Inches	Sample/Core Description
0.0	2.0	2.0		0-2 SILTY clay - 6 cm ϕ ppt

LAWGIBB GROUP

SITE NAME
SITE LOCATION

Sample/Core Log

Boring/Well SS-18 Project/No. 22000-1-0011 Page 1 of 1

Site Location Island Park, NY Drilling Started 5/14/01 Drilling Completed 5/14/01

Total Depth Drilled 2 Feet Hole Diameter 1.5 inches Type of Sample/ Coring Device Macro-Core

Length and Diameter of Coring Device 2-Foot x 1.5Inches Sampling Interval 0-2 feet

Land-Surface Elev. _____ feet ☐ Surveyed ☐ Estimated Datum _____

Drilling Fluid Used NA Drilling Method Manual Geoprobe

Drilling Contractor NA Driller _____ Helper _____

Prepared By Scott Horsnall Hammer Weight NA Hammer Drop NA ins.

Sample/Core Depth (feet below land surface) From	To	Core Recovery (feet)	Time/Hydraulic Pressure or Blows per 6 Inches	Sample/Core Description
0.0	2.0	2.0		Sand (f-m) brown, moist 0 ppm

Sample1a.xls

LAWGIBB GROUP

Sample/Core Log

SITE NAME
SITE LOCATION

Boring/Well SS-19 Project/No. 22000-1-0011 Page 1 of 1

Site Location Island Park, NY Drilling Started 5/14/01 Drilling Completed 5/14/01

Total Depth Drilled 2 Feet Hole Diameter 1.5 inches Type of Sample/ Coring Device MACRO-CORE

Length and Diameter of Coring Device 2-FOOT x 1.5INCHES Sampling Interval 0-2 feet

Land-Surface Elev. _____ feet ☐ Surveyed ☐ Estimated Datum _____

Drilling Fluid Used NA Drilling Method Manual Geoprob.

Drilling Contractor NA / Driller _____ Helper _____

Prepared By Scott Horsnall Hammer Weight NA Hammer Drop NA ins.

Sample/Core Depth (feet below land surface) From	To	Core Recovery (feet)	Time/Hydraulic Pressure or Blows per 6 Inches	Sample/Core Description
0.0.	2.0	2.0		Sand (f-m) brown, some, trace f. gravel, ~ppm

LAWGIBB GROUP

SITE NAME
SITE LOCATION

Sample/Core Log

Boring/Well SS-20 Project/No. 22000-1-0011 Page 1 of 1

Site Location Island Park, NY Drilling Started 5/14/01 Drilling Completed 5/14/01

Total Depth Drilled 2 Feet Hole Diameter 1.5 inches Type of Sample/ Coring Device MACRO-CORE

Length and Diameter of Coring Device 2 FOOT x 1.5 INCHES Sampling Interval 0-2 feet

Land-Surface Elev. ____ feet ☐ Surveyed ☐ Estimated Datum ____

Drilling Fluid Used NA Drilling Method Manual Geoprobe

Drilling Contractor NA Driller ____ Helper ____

Prepared By Scott Horsnall Hammer Weight NA Hammer Drop NA ins.

Sample/Core Depth (feet below land surface) From	To	Core Recovery (feet)	Time/Hydraulic Pressure or Blows per 6 Inches	Sample/Core Description
0.0	2.0	2.0		Sand (m-c) brown
				PID 4 ppm

Samplelg.xls

LAWGIBB GROUP

Sample/Core Log

SITE NAME
SITE LOCATION

Boring/Well SS-21 Project/No. 22000-1-0011 Page 1 of 1

Site Location Island Park, NY Drilling Started 5/18/01 Drilling Completed 5/18/01

Total Depth Drilled 2 Feet Hole Diameter 1.5 inches Type of Sample/ Coring Device MACRO-CORE

Length and Diameter of Coring Device 2-FOOT x 1.5 INCHES Sampling Interval 0-2 feet

Land-Surface Elev. _____ feet ☐ Surveyed ☐ Estimated Datum _____

Drilling Fluid Used NA Drilling Method Manual Geoprobe

Drilling Contractor NA Driller _____ Helper _____

Prepared By Scott Horsnall Hammer Weight NA Hammer Drop NA ins.

Sample/Core Depth (feet below land surface) From	To	Core Recovery (feet)	Time/Hydraulic Pressure or Blows per 6 Inches	Sample/Core Description
				0.5 Concrete
0.0	2.0	2.0		PID 50-70 ppm odor GAS/Diesel
				0.0-0.9 Fill, gravel, cinders, sand
				0.9-1.5 Sand (m) grey odor
				1.5-2.0 Sand (c) grey-odor wet

LAWGIBB GROUP

SITE NAME
SITE LOCATION

Sample/Core Log

Boring/Well PB-3a Project/No. 22000-1-0011 Page 1 of 1

Site Location Island Park, NY Drilling Started 5/14/01 Drilling Completed 5/14/01

Total Depth Drilled 2 Feet Hole Diameter 1.5 inches Type of Sample/ Coring Device MACRO-CORE

Length and Diameter of Coring Device 2-FOOT x 1.5INCHES Sampling Interval 0-2 feet

Land-Surface Elev. _____ feet ☐ Surveyed ☐ Estimated Datum _____

Drilling Fluid Used NA Drilling Method Manual Geoprobe

Drilling Contractor NA Driller _____ Helper _____

Prepared By Scott Horsnall Hammer Weight NA Hammer Drop NA ins.

Sample/Core Depth (feet below land surface) From	To	Core Recovery (feet)	Time/Hydraulic Pressure or Blows per 6 inches	Sample/Core Description
0.0	2.0	2.0		Sand (f-m) with silt, brown gray
				Sample collected 6"-12"

Samplelg xls

LAWGIBB GROUP

SITE NAME
SITE LOCATION

Sample/Core Log

Boring/Well SC-3a Project/No. 22000-1-0011 Page 1 of 1

Site Location Island Park, NY Drilling Started 5/14/01 Drilling Completed 5/14/01

Total Depth Drilled 2 Feet Hole Diameter 1.5 inches Type of Sample/ Coring Device MACRO-CORE

Length and Diameter of Coring Device 2-FOOT x 1.5INCHES Sampling Interval 0-2 feet

Land-Surface Elev. _____ feet ☐ Surveyed ☐ Estimated Datum _____

Drilling Fluid Used NA Drilling Method Manual Geoprobe

Drilling Contractor NA Driller ~~~ Helper ~~~

Prepared By Scott Horsnall Hammer Weight NA Hammer Drop NA ins.

Sample/Core Depth (feet below land surface) From	To	Core Recovery (feet)	~~Time/Hydraulic~~ Pressure or ~~Blows per 6~~ Inches	Sample/Core Description
0.0	2.0	2.0		Sand (m) with some Brown
				Sample collected @ 6"-2"

LAWGIBB GROUP

SITE NAME
SITE LOCATION

Sample/Core Log

Boring/Well SD-1a Project/No. 22000-1-0011 Page 1 of 1

Site Location Island Park, NY Drilling Started 5/14/01 Drilling Completed 5/14/01

Total Depth Drilled 2 Feet Hole Diameter 1.5 inches Type of Sample/ Coring Device MACRO-CORE

Length and Diameter of Coring Device 2 FOOT X 1.5 INCHES Sampling Interval 0-2 feet

Land-Surface Elev. _____ feet ☐ Surveyed ☐ Estimated Datum _____

Drilling Fluid Used NA Drilling Method Manual Geoprobe

Drilling Contractor NA Driller _____ Helper _____

Prepared By Scott Horsnall Hammer Weight NA Hammer Drop NA ins.

Sample/Core Depth (feet below land surface) From	To	Core Recovery (feet)	Time/Hydraulic Pressure or Blows per 6 Inches	Sample/Core Description
0.0	2.0	2.0		Sand (F-m) little silt, brown-gray
				sample collected 6"-12"

Samplelg.xls

LAWGIBB GROUP

SITE NAME
SITE LOCATION

Sample/Core Log

Boring/Well SD-2a Project/No. 22000-1-0011 Page 1 of 1

Site Location Island Park, NY Drilling Started 5/14/01 Drilling Completed 5/14/01

Total Depth Drilled 2 Feet Hole Diameter 1.5 inches Type of Sample/ Coring Device MACRO-CORE

Length and Diameter of Coring Device 2-FOOT x 1.5INCHES Sampling Interval 0-2 feet

Land-Surface Elev. _____ feet ☐ Surveyed ☐ Estimated Datum _____

Drilling Fluid Used NA Drilling Method Manual Geoprobe

Drilling Contractor NA Driller _____ Helper _____

Prepared By Scott Horsnall Hammer Weight NA Hammer Drop NA ins.

Sample/Core Depth (feet below land surface) From	To	Core Recovery (feet)	Time/Hydraulic Pressure or Blows per 6 Inches	Sample/Core Description
0.0	2.0	2.0		Sand (m) brown, with f. gravel moist
				Sample collected @ 18"-24"

LAWGIBB GROUP

Sample/Core Log

SITE NAME
SITE LOCATION

Boring/Well SD-4a Project/No. 22000-1-0011 Page 1 of 1

Site Location Island Park, NY Drilling Started 5/14/01 Drilling Completed 5/14/01

Total Depth Drilled 2 Feet Hole Diameter 1.5 inches Type of Sample/ Coring Device MACRO-CORE

Length and Diameter of Coring Device 2-FOOT x 1.5INCHES Sampling Interval 0-2 feet

Land-Surface Elev. _____ feet ☐ Surveyed ☐ Estimated Datum _____

Drilling Fluid Used NA Drilling Method Manual Geoprobe

Drilling Contractor NA Driller _____ Helper _____

Prepared By Scott Horsnall Hammer Weight NA Hammer Drop NA ins.

Sample/Core Depth (feet below land surface) From	To	Core Recovery (feet)	Time/Hydraulic ~~Pressure~~ or Blows per 6 Inches	Sample/Core Description
0.0	2.0			Sand (m) little silt brown
				Sample collected 6"-12"

Samplelg.xls

LAWGIBB GROUP

SITE NAME
SITE LOCATION

Sample/Core Log

Boring/Well DE-2U Project/No. 22000-1-0011 Page 1 of 1

Site Location Island Park, NY Drilling Started 5/14/01 Drilling Completed 5/14/01

Total Depth Drilled 2 Feet Hole Diameter 1.5 inches Type of Sample/ Coring Device MACRO-CORE

Length and Diameter of Coring Device 2-FOOT x 1.5INCHES Sampling Interval 0-2 feet

Land-Surface Elev. _____ feet ☐ Surveyed ☐ Estimated Datum _____

Drilling Fluid Used NA Drilling Method Manual Geoprobe

Drilling Contractor NA Driller _____ Helper _____

Prepared By Scott Horsnall Hammer Weight NA Hammer Drop NA ins.

Sample/Core Depth (feet below land surface) From	To	Core Recovery (feet)	~~Time/Hydraulic Pressure or~~ Blows per 6 Inches	Sample/Core Description
0.0	2.0	2.0		Sand (m-c) Grown sample collected 6"-12"

Samplelg.xls

LAWGIBB GROUP

SITE NAME
SITE LOCATION

Sample/Core Log

Boring/Well PE-3a Project/No. 22000-1-0011 Page 1 of 1

Site Location Island Park, NY Drilling Started 5/14/01 Drilling Completed 5/14/01

Total Depth Drilled 2 Feet Hole Diameter 1.5 inches Type of Sample/ Coring Device MACRO-CORE

Length and Diameter of Coring Device 2-FOOT x 1.5 INCHES Sampling Interval 0-2 feet

Land-Surface Elev. ____ feet ☐ Surveyed ☐ Estimated Datum ____

Drilling Fluid Used NA Drilling Method Manual Geoprobe

Drilling Contractor NA / Driller — Helper —

Prepared By Scott Horsnall Hammer Weight NA Hammer Drop NA ins.

Sample/Core Depth (feet below land surface) From	To	Core Recovery (feet)	Time/Hydraulic Pressure or Blows per 6 Inches	Sample/Core Description
0.0	2.0	2.0		Sand (m) brown
				sample collected @ 18"-24"

Sample1a.xls

LAWGIBB GROUP

SITE NAME
SITE LOCATION

Sample/Core Log

Boring/Well PF-2a Project/No. 22000-1-0011 Page 1 of 1

Site Location Island Park, NY Drilling Started 5/14/01 Drilling Completed 5/14/01

Total Depth Drilled 2 Feet Hole Diameter 1.5 inches Type of Sample/ Coring Device MACRO-CORE

Length and Diameter of Coring Device 2 FOOT x 1.5 INCHES Sampling Interval 0-2 feet

Land-Surface Elev. _____ feet ☐ Surveyed ☐ Estimated Datum _____

Drilling Fluid Used NA Drilling Method Manual Geoprobe

Drilling Contractor NA / Driller — Helper —

Prepared By Scott Horsnall Hammer Weight NA Hammer Drop NA ins.

Sample/Core Depth (feet below land surface) From	To	Core Recovery (feet)	Time/~~Hydraulic~~ Pressure or ~~Blows per 6~~ Inches	Sample/Core Description
0.0	2.0	2.0		SILTY SAND, brown
				sample collected 6"-12"

LAWGIBB GROUP

Project N
Loca

Project: Cibro | Project No. 22500-1-0011 | Page 1 of 1

Site Location: Island Park, NY | Date: 5/15/01

Site/Well No.: MW-1 | Replicate No. | Code No.

Weather: Sun 75°F | Sampling Time: Begin | End 1000

Evacuation Data

Measuring Point	TOC
MP Elevation (ft)	
Land Surface Elevation (ft)	
Sounded Well Depth (ft bmp)	17.00
Depth to Water (ft bmp)	4.00
Water-Level Elevation (ft)	
Water Column in Well (ft)	13.00
Casing Diameter/Type	0.65/4"
Gallons in Well	8.45
Gallons Pumped/Bailed Prior to Sampling	3 vol = 26 gal
Sample Pump Intake Setting (ft bmp)	1 off bottom
Purge Time	begin 0928 end 0954
Pumping Rate (gpm)	1 spm -
Evacuation Method	Peristaltic pump

Field Parameters

Color	colorless
Odor	Sulfur odor slight
Appearance	
pH (s.u.)	7.51/7.61/7.41/7.32
Conductivity (mS/cm)	
(µmhos/cm)	0.399/.468/.475/.439
Turbidity (NTU)	
Temperature (°C)	12.4/12.9/12.2/15.2
Dissolved Oxygen (mg/L)	
Salinity (%)	
Sampling Method	Disp. Bailer
Remarks	

Constituents Sampled	Container Description	Number	Preservative
VOC 8021	2 - 40ml vials	2	HCl
SVOC 8270	1 - Liter amber	2	—

Sampling Personnel: JH/PES BWE

Well Casing Volumes

Gal./Ft.				
	1-¼" = 0.06	2" = 0.16	3" = 0.37	4" = 0.65
	1-½" = 0.09	2-½" = 0.26	3-½" = 0.50	6" = 1.47

bmp	below measuring point	ml	milliliter	NTU	Nephelometric Turbidity Units
°C	Degrees Celsius	mS/cm	Milisiemens per centimeter	PVC	Polyvinyl chloride
ft	feet	msl	mean sea-level	s.u.	Standard units
gpm	Gallons per minute	N/A	Not Applicable	umhos/cm	Micromhos per centimeter
mg/L	Miligrams per liter	NR	Not Recorded	VOC	Volatile Organic Compounds

LAWGIBB GROUP

Project I
Loc

Project: Cibco-
Project No.: 22005-1-0011
Page: 1 of
Site Location: Island Park NY
Date: 5/15/01
Site/Well No.: MW-2
Replicate No.:
Code No.:
Weather: Sun 70's
Sampling Time: Begin: End: 0920

Evacuation Data

Measuring Point	TOC
MP Elevation (ft)	
Land Surface Elevation (ft)	
Sounded Well Depth (ft bmp)	17.0
Depth to Water (ft bmp)	4.62
Water-Level Elevation (ft)	
Water Column in Well (ft)	12.38
Casing Diameter/Type	0.65/4"
Gallons in Well	8.05
Gallons Pumped/Bailed Prior to Sampling	3vol=25gal
Sample Pump Intake Setting (ft bmp)	1' off bottom
Purge Time	begin 0845 end 0910
Pumping Rate (gpm)	1spm
Evacuation Method	Peristaltic Pump

Field Parameters

Color	Clear
Odor	Sulfur
Appearance	with black sed.
pH (s.u.)	6.96/7.52/7.43/7.
Conductivity (mS/cm)	0.435/434/437/.462
(µmhos/cm)	
Turbidity (NTU)	
Temperature (°C)	12.7/12.5/12.3/12
Dissolved Oxygen (mg/L)	
Salinity (%)	
Sampling Method	Disp. Bailer
Remarks	

Constituents Sampled	Container Description	Number	Preservative
VOC	2-40ml vials	2	HCl
SVOC	2-1-Liter Amber	2	—

Sampling Personnel: SM/D

Well Casing Volumes

Gal./Ft.				
	1-¼" = 0.06	2" = 0.16	3" = 0.37	4" = 0.65
	1-½" = 0.09	2-½" = 0.26	3-½" = 0.50	6" = 1.47

bmp	below measuring point	ml	milliliter	NTU	Nephelometric Turbidity Units
°C	Degrees Celsius	mS/cm	Milisiemens per centimeter	PVC	Polyvinyl chloride
ft	feet	msl	mean sea-level	s.u.	Standard units
gpm	Gallons per minute	N/A	Not Applicable	umhos/cm	Micromhos per centimeter
mg/L	Miligrams per liter	NR	Not Recorded	VOC	Volatile Organic Compounds

LAWGIBB GROUP

Project Cibro

Site Location Island Park, NY

Site/Well No. EMW-3R

Weather Sun - Wind 70°F

Project No. 22000-1-0011

Replicate No.

Sampling Time: Begin End

Page 1 of 1

Date 5/18/01

Code No.

Evacuation Data

Measuring Point	TOC
MP Elevation (ft)	
Land Surface Elevation (ft)	
Sounded Well Depth (ft bmp)	15.00
Depth to Water (ft bmp)	6.71
Water-Level Elevation (ft)	
Water Column in Well (ft)	8.29
Casing Diameter/Type	0.16/2"
Gallons in Well	1.33
Gallons Pumped/Bailed Prior to Sampling	3vol = 4gal
Sample Pump Intake Setting (ft bmp)	1' off bottom
Purge Time	begin 1400 end 1420
Pumping Rate (gpm)	0.5gpm
Evacuation Method	Peristaltic pump

Field Parameters

Color	clear colorless - little to
Odor	sl. petro
Appearance	sl. - with sheen
pH (s.u.)	7.62 / 7.61 / 7.65 /
Conductivity (mS/cm)	3.85 / 2.20 / 1.90 /
(µmhos/cm)	
Turbidity (NTU)	
Temperature (°C)	14.1 / 14.0 / 14.1 /
Dissolved Oxygen (mg/L)	
Salinity (%)	
Sampling Method	Disp Bailer
Remarks	

Constituents Sampled	Container Description	Number	Preservative
VOCs 8021	40ml vials	2	HCl
SVOCs 8270	1-Liter Amber	2	—

Sampling Personnel SM / DES - Bud

Well Casing Volumes

Gal./Ft.				
	1-¼" = 0.06	2" = 0.16	3" = 0.37	4" = 0.65
	1-½" = 0.09	2-½" = 0.26	3-½" = 0.50	6" = 1.47

bmp	below measuring point	ml	milliliter	NTU	Nephelometric Turbidity Units
°C	Degrees Celsius	mS/cm	Milisiemens per centimeter	PVC	Polyvinyl chloride
ft	feet	msl	mean sea-level	s.u.	Standard units
gpm	Gallons per minute	N/A	Not Applicable	umhos/cm	Micromhos per centimeter
mg/L	Miligrams per liter	NR	Not Recorded	VOC	Volatile Organic Compounds

LAWGIBB GROUP

Project N
Loca

Project 22000-1-0011 Project No. Libro Page 1 of 1

Site Location Island Park NV Date 5/15/01

Site/Well No. LMW-3 Replicate No. Code No.

Weather Sun 75°F Sampling Time: Begin End 1035

Evacuation Data

Measuring Point	TOC
MP Elevation (ft)	
Land Surface Elevation (ft)	
Sounded Well Depth (ft bmp)	15.00
Depth to Water (ft bmp)	6.61
Water-Level Elevation (ft)	8.39
Water Column in Well (ft)	8.39
Casing Diameter/Type	0.16/2"
Gallons in Well	1.34
Gallons Pumped/Bailed Prior to Sampling	3vol = 4gal
Sample Pump Intake Setting (ft bmp)	1' off bottom
Purge Time	begin 10:12 end
Pumping Rate (gpm)	0.5 gpm
Evacuation Method	Peristaltic

Field Parameters

Color	Sl. Turbid - clear
Odor	None
Appearance	Clear - lt. gray
pH (s.u.)	7.04 / 6.96 / 6.96 / 7.0
Conductivity (mS/cm)	2.27 / 2.28 / 2.32 / 2
(µmhos/cm)	/ / /
Turbidity (NTU)	
Temperature (°C)	16.8 / 15.2 / 15.3 / 15
Dissolved Oxygen (mg/L)	
Salinity (%)	
Sampling Method	Disp Bailer
Remarks	

Constituents Sampled	Container Description	Number	Preservative
VOCs 8021	40ml vials	2	HCl
SVOC 8270	1-Liter Amber	2	-

Sampling Personnel SM / DES DWE

Well Casing Volumes

Gal./Ft.				
	1-¼" = 0.06	2" = 0.16	3" = 0.37	4" = 0.65
	1-½" = 0.09	2-½" = 0.26	3-½" = 0.50	6" = 1.47

bmp	below measuring point	ml	milliliter	NTU	Nephelometric Turbidity Units
°C	Degrees Celsius	mS/cm	Milisiemens per centimeter	PVC	Polyvinyl chloride
ft	feet	msl	mean sea-level	s.u.	Standard units
gpm	Gallons per minute	N/A	Not Applicable	umhos/cm	Micromhos per centimeter
mg/L	Miligrams per liter	NR	Not Recorded	VOC	Volatile Organic Compounds

LAWGIBB GROUP

Project N
Loc

Project Cibro | Project No. 22000-1-0011 | Page 1 of 1
Site Location Island Park, NY | Date 5/15/01
Site/Well No. LMW-4 | Replicate No. | Code No.
Weather Sun Wind 70's | Sampling Time: Begin | End 1130

Evacuation Data

Measuring Point	TOC
MP Elevation (ft)	
Land Surface Elevation (ft)	
Sounded Well Depth (ft bmp)	15.00
Depth to Water (ft bmp)	6.60
Water-Level Elevation (ft)	
Water Column in Well (ft)	8.4
Casing Diameter/Type	0.16/2"
Gallons in Well	1.34
Gallons Pumped/Bailed Prior to Sampling	3vol = 4gal/5gal
Sample Pump Intake Setting (ft bmp)	1' off bottom
Purge Time	begin 1108 end
Pumping Rate (gpm)	0.5 gpm
Evacuation Method	Peristaltic pump

Field Parameters

Color	
Odor	
Appearance	
pH (s.u.)	6.31/6.66/6.59/6
Conductivity (mS/cm)	1.49/1.49/1.48/1
(µmhos/cm)	
Turbidity (NTU)	
Temperature (°C)	14.7/15.0/15.2/15
Dissolved Oxygen (mg/L)	
Salinity (%)	
Sampling Method	Disp Bailer
Remarks	

Constituents Sampled	Container Description	Number	Preservative
VOC 8021	40ml vials	2	HCl
SVOC 8270	1 Liter Amber	2	—

Sampling Personnel SH / DES BWC

Well Casing Volumes

Gal./Ft.				
	1-¼" = 0.06	2" = 0.16	3" = 0.37	4" = 0.65
	1-½" = 0.09	2-½" = 0.26	3-½" = 0.50	6" = 1.47

bmp	below measuring point	ml	milliliter	NTU	Nephelometric Turbidity Units
°C	Degrees Celsius	mS/cm	Milisiemens per centimeter	PVC	Polyvinyl chloride
ft	feet	msl	mean sea-level	s.u.	Standard units
gpm	Gallons per minute.	N/A	Not Applicable	umhos/cm	Micromhos per centimeter
mg/L	Miligrams per liter	NR	Not Recorded	VOC	Volatile Organic Compounds

LAWGIBB GROUP

Project N
Loc

Project: Cibro
Project No.: 22000-1-0011
Page: 1 of 1
Site Location: Island Park, NY
Date: 5/25/0
Site/Well No.: OW-1
Replicate No.:
Code No.:
Weather: Sun Wind 70°F
Sampling Time: Begin: End: 1110

Evacuation Data

Measuring Point	TOC
MP Elevation (ft)	
Land Surface Elevation (ft)	
Sounded Well Depth (ft bmp)	15.00
Depth to Water (ft bmp)	4.74
Water-Level Elevation (ft)	
Water Column in Well (ft)	7.26
Casing Diameter/Type	4"/0.65
Gallons in Well	4.72
Gallons Pumped/Bailed Prior to Sampling	3vol=15
Sample Pump Intake Setting (ft bmp)	
Purge Time	begin 1037 end
Pumping Rate (gpm)	0.75gpm
Evacuation Method	Peristaltic Pump

Field Parameters

Color	colorless
Odor	none
Appearance	Sand Fine Sed
pH (s.u.)	7.12/7.04/7.03/7.
Conductivity (mS/cm)	2.39/2.94/2.88/2
(µmhos/cm)	
Turbidity (NTU)	
Temperature (°C)	14.4/14.1/13.2
Dissolved Oxygen (mg/L)	
Salinity (%)	
Sampling Method	Disp. Bailer
Remarks	

Constituents Sampled	Container Description	Number	Preservative
VOCs 8021	40ml vials	2	HCl
SVOCs 8270	1 liter Amber	2	—

Sampling Personnel: SH / PES BWE

Well Casing Volumes

Gal./Ft.				
	1-¼" = 0.06	2" = 0.16	3" = 0.37	4" = 0.65
	1-½" = 0.09	2-½" = 0.26	3-½" = 0.50	6" = 1.47

bmp	below measuring point	ml	milliliter	NTU	Nephelometric Turbidity Units
°C	Degrees Celsius	mS/cm	Milisiemens per centimeter	PVC	Polyvinyl chloride
ft	feet	msl	mean sea-level	s.u.	Standard units
gpm	Gallons per minute	N/A	Not Applicable	umhos/cm	Micromhos per centimeter
mg/L	Miligrams per liter	NR	Not Recorded	VOC	Volatile Organic Compounds

LAWGIBB GROUP

Project N
Loc

Project: Cibro | Project No.: 22000-1-0011 | Page: 1 of 1
Site Location: Island Park, NY | Date: 5/15/
Site/Well No.: W-2 | Replicate No.: | Code No.:
Weather: Sun-Wind 70°F | Sampling Time: Begin: | End: 1335

Evacuation Data

Measuring Point	TOC
MP Elevation (ft)	
Land Surface Elevation (ft)	
Sounded Well Depth (ft bmp)	14.00
Depth to Water (ft bmp)	4.66
Water-Level Elevation (ft)	9.34
Water Column in Well (ft)	
Casing Diameter/Type	4" / 0.65
Gallons in Well	6.07
Gallons Pumped/Bailed Prior to Sampling	300 = 19 gal
Sample Pump Intake Setting (ft bmp)	1' off bottom
Purge Time	begin 1310 end
Pumping Rate (gpm)	1 gpm
Evacuation Method	Peristaltic pump

Field Parameters

Color	
Odor	
Appearance	
pH (s.u.)	7.12 / 7.20 / 7.25 / 7
Conductivity (mS/cm)	1.59 / 3.64 / 3.81 / 4
(µmhos/cm)	
Turbidity (NTU)	
Temperature (°C)	13.3 / 12.0 / 12.2 / 13
Dissolved Oxygen (mg/L)	
Salinity (%)	
Sampling Method	Disp. Bailer
Remarks	

Constituents Sampled	Container Description	Number	Preservative
VOC 8021	40ml vial	2	HCl
SVOC 8270	1 Liter Amber	2	

Sampling Personnel

Well Casing Volumes

Gal./Ft.				
	1-¼" = 0.06	2" = 0.16	3" = 0.37	4" = 0.65
	1-½" = 0.09	2-½" = 0.26	3-½" = 0.50	6" = 1.47

bmp	below measuring point	ml	milliliter	NTU	Nephelometric Turbidity Units
°C	Degrees Celsius	mS/cm	Milisiemens per centimeter	PVC	Polyvinyl chloride
ft	feet	msl	mean sea-level	s.u.	Standard units
gpm	Gallons per minute	N/A	Not Applicable	umhos/cm	Micromhos per centimeter
mg/L	Milligrams per liter	NR	Not Recorded	VOC	Volatile Organic Compounds

LAWGIBB GROUP

Project N
Loca

Project: Cibco | Project No.: 22000-1-0011 | Page 1 of
Site Location: Island Park, NV | Date: 5/15/01
Site/Well No.: W-11 | Replicate No.: | Code No.:
Weather: Sun Wind 70°F | Sampling Time: Begin: | End: 1205

Evacuation Data

Measuring Point	TOC
MP Elevation (ft)	
Land Surface Elevation (ft)	
Sounded Well Depth (ft bmp)	12.5
Depth to Water (ft bmp)	4.20
Water-Level Elevation (ft)	8.3
Water Column in Well (ft)	8.3
Casing Diameter/Type	4"/0.65
Gallons in Well	
Gallons Pumped/Bailed Prior to Sampling	3 vol = 7 gal
Sample Pump Intake Setting (ft bmp)	1' off bottom
Purge Time	begin 1140 end 1200
Pumping Rate (gpm)	1 gpm
Evacuation Method	PERISTALTIC Pump

Field Parameters

Color	Blackish - clear
Odor	SALT - SEWAGE
Appearance	cloudy - clear
pH (s.u.)	7.89/8.09/8.07/8.
Conductivity (mS/cm)	22.7/29.2/28.4/26
(µmhos/cm)	
Turbidity (NTU)	
Temperature (°C)	14.9/14.2/13.4/14.
Dissolved Oxygen (mg/L)	
Salinity (%)	
Sampling Method	Disp BAILER
Remarks	

Constituents Sampled	Container Description	Number	Preservative
VOCs 8021	40ml vials	2	HCl
SVOC 8270	1 Liter Amber	2	—

Sampling Personnel: SH | DES · BWE

Well Casing Volumes

Gal./Ft.				
	1-¼" = 0.06	2" = 0.16	3" = 0.37	4" = 0.65
	1-½" = 0.09	2-½" = 0.26	3-½" = 0.50	6" = 1.47

bmp	below measuring point	ml	milliliter	NTU	Nephelometric Turbidity Units
°C	Degrees Celsius	mS/cm	Milisiemens per centimeter	PVC	Polyvinyl chloride
ft	feet	msl	mean sea-level	s.u.	Standard units
gpm	Gallons per minute	N/A	Not Applicable	umhos/cm	Micromhos per centimeter
mg/L	Miligrams per liter	NR	Not Recorded	VOC	Volatile Organic Compounds

LAWGIBB GROUP

Project N
Loc

Project Ciba Project No. 22001-1-0011 Page 1 of 1

Site Location Island Park, NY Date 5/15/01

Site/Well No. W-12 Replicate No. Code No.

Weather Sun Wind 70°F Sampling Time: Begin End 1255

Evacuation Data

Measuring Point	TOC
MP Elevation (ft)	
Land Surface Elevation (ft)	
Sounded Well Depth (ft bmp)	13.00
Depth to Water (ft bmp)	4.88
Water-Level Elevation (ft)	8.12
Water Column in Well (ft)	X
Casing Diameter/Type	4"/0.65
Gallons in Well	5.3
Gallons Pumped/Bailed Prior to Sampling	300l = 16 gallons
Sample Pump Intake Setting (ft bmp)	1' off bottom
Purge Time	begin 1230 end 1244
Pumping Rate (gpm)	1 spm - Dev
Evacuation Method	Peristaltic pump

Field Parameters

Color	
Odor	
Appearance	
pH (s.u.)	8.94/8.80/8.84
Conductivity (mS/cm)	41.2/41.0/40.7
(µmhos/cm)	
Turbidity (NTU)	
Temperature (°C)	15.5/15.9/16.1
Dissolved Oxygen (mg/L)	
Salinity (%)	
Sampling Method	Disp. Bailer
Remarks	Purge 14 gallons Let Rec Before sampling.

Constituents Sampled	Container Description	Number	Preservative
VOC 8021	40ml vials	2	HCl
SVOC 8270	1 Liter Amber	2	—

Sampling Personnel SH/DES-BWT

Well Casing Volumes

Gal./Ft.				
	1-¼" = 0.06	2" = 0.16	3" = 0.37	4" = 0.65
	1-½" = 0.09	2-½" = 0.26	3-½" = 0.50	6" = 1.47

bmp	below measuring point	ml	milliliter	NTU	Nephelometric Turbidity Units
°C	Degrees Celsius	mS/cm	Milisiemens per centimeter	PVC	Polyvinyl chloride
ft	feet	msl	mean sea-level	s.u.	Standard units
gpm	Gallons per minute	N/A	Not Applicable	umhos/cm	Micromhos per centimeter
mg/L	Miligrams per liter	NR	Not Recorded	VOC	Volatile Organic Compounds

LAWGIBB GROUP

CLEANUP PLAN FOR SOIL AND GROUND WATER AT THE FORMER CIBRO ISLAND PARK SITE ISLAND PARK, NEW YORK

PREPARED FOR:

Blue Island, LLC.
1610 New Highway
Farmingdale, New York 11735

PREPARED BY:

Law Environmental Consultants, Inc.
One Summit Square, Suite 402
Route 413 & Doublewoods Road
Langhorne, Pennsylvania 19067

LAW PROJECT 22000-0-0026

February 2001

LAWGIBB GROUP

February 14, 2001

Michael Posillico, President
Blue Island, LLC
1610 New Highway
Farmingdale, New York 11735

Via Federal Express

Subject: **Cleanup Plan for Soil and Ground Water**
Former Cibro Petroleum Terminal
Island Park, New York
LAW Project 22000-0-0026

Dear Mr. Posillico:

Law Environmental Consultants, Inc. (LAW) is pleased to submit this cleanup plan to Blue Island, LLC for remediation of petroleum-impacted soil and ground water at the former Cibro Petroleum Terminal in Island Park, New York. The site activities were completed be LAW in general accordance with our Site Investigation Work Plan (November 2000).

We look forward to continuing to work with you on this interesting project. Please call us if you have any questions or if we may be of further service.

Sincerely,

LAW ENVIRONMENTAL CONSULTANTS, INC.

Douglas J. Newton, CPG, PG
Senior Hydrogeologist

Brent Chapman, PG
Principal Geologist BY WITH PERMIS

Arul Ayyaswami
Senior Engineer

LAW Engineering and Environmental Services, Inc.
301 Oxford Valley Road, Suite 702
Yardley, PA 19067
215-369-1000 • Fax: 215-369-5380

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A. Geologic Logs

B. Laboratory Reports – Soil Samples

C. Laboratory Reports – Ground-Water Samples

D. Map of Potential PCB-Impacted Soil

E. Soil Receiving Protocol for the Posillico Brothers Asphalt Facility

F. Oxygen Release Compound Technical Data Information

G. Health and Safety Plans

CLEANUP PLAN FOR THE FORMER CIBRO ISLAND PARK SITE ISLAND PARK, NEW YORK

1.0 INTRODUCTION

On behalf of Blue Island, LLC, Law Environmental Consultants, Inc. (LAW) has prepared this cleanup plan for the former Cibro Petroleum site in Island Park, New York (Island Park site). The location of the Island Park site is shown on Figure 1-1. This cleanup plan presents a summary of the results of the site investigation project that was completed in January 2001, and provides our approach for soil and ground-water remediation at the Island Park site. The remedial approach described in this cleanup plan is consistent with the discussions between representatives from Blue Island, LAW and the New York State Department of Environmental Conservation (NYSDEC) during a October 17, 2000 meeting at the NYSDEC offices in Stony Brook, New York. In addition, site activities were completed be LAW in general accordance with our Site Investigation Work Plan (November 2000).

For ease of review, this cleanup plan consists of the following sections:

- Introduction
- Background
- Hydrogeology
- Site Investigation Methodology
- Site Investigation Results
- Cleanup Plan
- Health and Safety Plan
- References

2.0 BACKGROUND

The Cibro Island Park site is an 11-acre parcel of land (zoned industrial) located at 7 Washington Avenue in the Township of Island Park in Nassau County, New York (see Figure 1-1). The site is identified on the local Tax Map as Block 381, Lots 35, 36, 102 and 323. The site is bordered by water on three sides (Island Park Canal to the east, Wreck Lead Channel to the south, and Simmons Hassock Creek to the west), and to the north by single family residences.

According to information reviewed by LAW, the site was used as a petroleum bulk storage facility since the 1940's. In 1973, Cibro purchased the site from OPI, Inc. and continued its operation as a bulk storage terminal through 1990. During its period of peak operations, the terminal facility contained 14 aboveground storage tanks with a total capacity of 17,675,000 gallons and one underground storage tank (UST), which was abandoned prior to Cibro's ownership. According to Cibro, the former UST had a capacity of 3,000 gallons and was located near a former dispensing system; the contents of the UST are unknown. Currently the Island Park site is not used, and the aboveground tanks have been removed. A list of the former tanks at the site is provided in Table 2-1. The locations of the former tanks are shown on Figure 2-1.

During the past 10 to 12 years several subsurface investigations were performed at the Island Park site to assess the potential presence of environmental impacts related to past site activities. The investigations included the installation of test pits, soil borings and ground-water monitoring wells, as well as the collection and analysis of soil and ground-water samples. The results of these investigations have indicated the presence of petroleum hydrocarbon impacts at the site in soil, ground water and adjacent surface water. In addition, a limited area of PCB-impacted soil was identified near the southwest portion of the site.

Review of available information also shows that separate-phase product may have been historically present at the site. However, review of the more recent information does not indicate the presence of separate-phase product. If separate-phase product were present in the past, tidal fluctuations would likely have "smeared" the separate-phase product through a thicker section of

unconsolidated materials than would have been affected if there were no tidal influence. Consequently, the material within the capillary fringe zone may exhibit greater petroleum-related impacts than the soils immediately above the capillary fringe at the areas where separate-phase product may have been present in the past.

3.0 HYDROGEOLOGY

On Long Island and in the project area, Quaternary- and Cretaceous-age unconsolidated sediments rest unconformably on a crystalline bedrock surface that slopes to the southeast. Review of published information shows the underlying bedrock is of Precambrian age and occurs at depths ranging from about 200 feet below ground surface (bgs) to 1,800 feet bgs. Descriptions of rock cores from wells indicate that the bedrock is generally a biotite schist or gneiss, which may be intruded by granite or pegmatite. In most places, the bedrock is weathered in its upper part.

The Late Cretaceous deposits are predominately the Raritan and Magothy Formations which lie unconformably above the bedrock. These deposits consist of interbedded sand, gravel, silt and clay. The Raritan is the older formation and is divided into the Lloyd sand member below and the clay member above. The Raritan Formation by correlation with the New Jersey formations has been referred to as the basal member of the Upper (late) Cretaceous Series. The Magothy Formation which, used to designate Cretaceous strata on Long Island that lie above the Raritan Formation, likely includes an equivalent of the Magothy formation of New Jersey and also some Upper Cretaceous strata younger than the Magothy of New Jersey. The Magothy Formation consists predominately of micaceous sand, sandy silt and clay. Gravel occurs near the base of the formation.

Pleistocene deposits of sand, gravel and glacial till form the surficial deposits at most areas of Long Island. The bulk of the Pleistocene deposits are till and outwash material associated with two ice advances within the Wisconsin and Illionian ages. The unconsolidated deposits that are saturated from the weathered bedrock upward to the water table yield water to wells screened in the permeable zones. Shoreline, swamp and alluvial deposits of Recent-age locally mantle the older deposits. According to published information, surface waters in the area of the site are classified as "SB" Saline Waters, which allow for primary and secondary recreation and fishing.

3.1 Site-Specific Hydrogeology

The unconsolidated material of the Island Park site consists predominately of fine to coarse grain sand. A peat layer underlies the unconsolidated sand unit and is present at a depth of approximately 9 feet bgs. The site-specific hydrogeologic conditions consist of a tidally influenced unconfined aquifer within the surficial fill material and glacial fluvial deposits. Tidal fluctuations on ground-water levels have been reported to range from one to four feet (Subsurface Investigations, 1994).

Ground water levels were measured in the new and existing monitoring wells at the Island Park site on January 8, 2001 as part of a ground-water sampling round that was performed during LAW's recent site investigation. The depth to water and water-level elevation data are provided in Table 3-1. No separate-phase product has detected on the ground-water surface, using an oil-water interface probe. As shown on Figure 3-1, the horizontal direction of ground-water flow at the Island Park site is generally southerly but locally discharges to the Island Park Canal to the east, Wreck Lead Channel to the south, and Simmons Hassock Creek to the west. The direction of ground-water flow mapped from water level data collected during January 2001 is consistent with ground-water flow maps prepared by others during previous investigations.

4.0 SITE INVESTIGATION METHODOLOGY

4.1 Soil Characterization Study

Seventy soil borings (designated as SB-1 through SB-70) were completed at the former Cibro facility during December 4 through December 8, 2000. Blue Island contracted the services of Zebra Environmental, Inc. to complete the soil borings by using the direct push method (i.e. Geoprobe method). Soil samples were collected continuously at four-foot increments from each boring using a Macro-core sampler and screened in the field for the presence of organic vapors using a photoionization instrument detector (PID). In general, three discrete soil samples were collected from each boring at the following depth intervals: (1) the shallow unsaturated zone at a depth of about 0 to 18 inches bgs; (2) the water table/smear zone (intermediate zone), which generally was encountered at a depth of about 24 to 48 inches bgs; and (3) near the top of the peat layer (deep zone), which was typically encountered at about seven to nine feet bgs. At several locations, particularly along the eastern perimeter of the site, a shallow soil sample was not collected due to the presence of standing surface water or shallow water table conditions. The locations of the Geoprobe borings are shown on Figure 2-1. The geologic logs for the borings are provided in Appendix A.

In addition, Blue Island contracted the services of Slake Test Boring, Inc. to advance three borings (GT-1, GT-2 and GT-3 shown on Figure 2-1) to obtain geotechnical information. These borings were advanced in portions of the site believed to have little if any, petroleum-related impacts to soil quality. These borings were drilled using the hollow-stem auger method to a depth of 30 feet bgs. No other borings were drilled at the Island Park site through the peat layer to prevent the potential of cross contamination between the shallow unconsolidated material overlying the peat layer, which likely acts as a confining unit, and the unconsolidated material beneath the peat layer. Copies of the geologic logs for these three borings are provided in Appendix A.

Blue Island contracted the services of ETL Laboratory in Farmingdale, New York to perform laboratory analyses on the soil samples. Blue Island delivered the soil samples with chain of

custody documentation on a daily basis to ETL for analysis of total petroleum hydrocarbons (TPHs) using USEPA Method 418.1. The results of the TPH analyses are provided in Table 4-1. Isoconcentration maps illustrating the TPH analytical results for the shallow, intermediate and deep soil layers are shown on Figures 4-1, 4-2 and 4-3, respectively. A copy of the laboratory report for the soil sample analyses is provided in Appendix B.

4.2 Ground-Water Investigation

4.2.1 Well Installation

Blue Island contracted the services of Miller Environmental Drilling, Inc. to install six monitoring wells (LMW-1, LMW-2, LMW-3, LMW-4, LMW-5 and MW-3R) at the site. The wells were installed on December 11th, 2000 using the hollow stem auger drilling method with technical oversight by a LAW geologist. The wells were installed to a depth of approximately 11 feet bgs and were constructed with 2-inch diameter, schedule 40 PVC casing and 10 feet of 20-slot (0.020-inch slot size openings) well screen. A gravel pack (No. 1 gravel) was installed around the well screen in the annulus of the well screen with a bentonite seal and cement/bentonite grout to the ground surface in the remainder of the borehole annulus. On December 12th Miller Environmental completed the well installation by developing the newly installed wells and installing the steel outer protective covering. Blue Island surveyed the location and elevation of the measuring point (i.e. top of PVC casing with cap off) of the new monitoring wells relative to the existing onsite datum. The construction details for the new and existing monitoring wells at the Island Park site are provided in Table 4-2. The geologic logs for the new monitoring wells are provided in Appendix A.

4.2.2 Ground-Water Sampling

During January 8 through 10, 2001, LAW collected ground-water samples from the new and existing wells at the site. Prior to sampling, a synoptic round of water levels were measured in the existing wells and the newly installed wells. The water-level data is provided in Table 3-1.

The ground-water samples were collected utilizing the low-flow (micro purging) sampling technique. Due to insufficient water in Well MW-6 (1-inch steel pipe), samples from this well were collected using a Teflon™ bailer. The ground-water samples were analyzed for NYSDEC STARS volatile organic compounds (VOCs) using USEPA Method 8021 and NYSDEC STARS base neutral compounds (BNs) using USEPA Method 8270. In addition, the samples were analyzed for selected monitored natural attenuation parameters: total and dissolved iron and manganese, alkalinity, nitrate and nitrite, sulfate, chloride, chemical and biochemical oxygen demand, total and dissolved organic carbon, and ammonia.

Selected wells (MW-1, MW-3R, LMW-2, LMW-5, OW-1, W-2 and W-11) were also analyzed for selected dissolved gases: carbon dioxide, oxygen, nitrogen, and methane. Samples for dissolved gas analyses were submitted to Vaportech Services, Inc. of Pittsburgh, Pennsylvania.

Field measurements using a Grunfos Redi-Flow submersible pump with and in-line YSI 600 XL meter were performed at the wellhead and consisted of the following: dissolved oxygen (DO), oxidation-reduction potential (ORP), pH, temperature, specific conductance. Additional field analyses for ferrous iron and sulfide were performed using HACH™ field test kits.

For quality assurance purposes, a field blank was collected on January 8 and 9 and analyzed for the suite of parameters analyzed by the laboratory, along with a laboratory-prepared trip blank for VOCs. Ground-water samples were delivered by Blue Island to ETL Laboratory, a New York-certified analytical laboratory under chain of custody documentation. A summary of the VOC and BN analyses is provided in Tables 4-3 and 4-4, respectively. The field measurements are provided in Table 4-5. A summary of the biogeochemical analyses and the dissolved gas analyses is provided in Table 4-6. Copies of the laboratory reports for the ground-water samples are provided in Appendix C.

5.0 SITE INVESTIGATION RESULTS

5.1 Soil Quality Conditions

A summary of the soil quality conditions for the shallow, intermediate and deep zones at the former Cibro Island Park facility is provided below.

5.1.1 Shallow Zone

The concentrations of TPHs reported in the shallow soil samples ranged from 37 milligrams per kilogram (mg/kg) to 3,970 mg/kg (see Table 4-1). As shown on Figure 4-1, the highest concentrations of TPHs in the shallow soil samples were generally reported near former Tanks 1 through 4, 12 and 13, and in the area of the former loading dock. Concentrations of TPHs were generally in the range of approximately 1,900 mg/kg to 2,500 mg/kg but less than 4,000 mg/kg. With the exception of two shallow soil samples on Washington Avenue (SB-28 and SB-29), TPH concentrations in the shallow soil samples near former Tanks 10, 11 and 14 were less than 1,000 mg/kg. Shallow zone soil samples were not collected near former Tanks 5 through 8 and near former Tank 1 due to the presence of standing surface water or shallow water table conditions.

5.1.2 Intermediate Zone

Concentrations of TPHs reported in the intermediate soil samples ranged from 15 mg/kg to 3,580 mg/kg (see Table 4-1). In general, the concentrations of TPHs reported in the intermediate soil samples collected along Washington Avenue from former Tank 7 south to the former loading dock area, and eastward from the areas of former Tanks 1 through 8 were generally greater than 2,000 mg/kg (see Figure 4-2). The highest concentrations of TPHs were reported in the areas downgradient of former Tanks 2, 6, 7 and 9, and at and downgradient of the former loading dock. Concentrations of TPHs in these areas were generally greater than 3,000 mg/kg but less than 3,600 mg/kg.

5.1.3 Deep Zone

The concentrations of TPHs reported in the deep soil samples ranged from 28 mg/kg to 2,230 mg/kg. As shown in Table 4-1, the majority of the soil samples collected from the deep zone (46 of 70 soil samples collected) had TPHs reported at concentrations less than 200 mg/kg. As indicated, 67 of the 70 deep soil samples had TPH concentrations less than 600 mg/kg. The highest concentrations of TPHs were reported in samples SB-48 (2,200 mg/kg) and SB-68 (2,230 mg/kg), which are located at the southwestern portion of the site, and generally downgradient of former Tanks 12 and 13, respectively (see Figure 4-3).

5.2 Ground-Water Quality Conditions

Review of the analytical results indicate that benzene, toluene, ethylbenzene and xylenes (BTEX) were detected in samples collected from Wells LMW-1 and LMW-2 at total concentrations of 159.1 micrograms per liter (ug/L) and 59.99 ug/L, respectively. Benzene and ethylbenzene were detected at concentrations greater than NYSDEC ground-water standards in Well LMW-1 (see Table 4-3). Ethylbenzene and m, p-xylenes were detected at concentrations greater than NYSDEC ground-water standards in Well LMW-2. BTEX was not detected in other monitoring wells sampled during the January 2001 sampling round.

Total VOCs were detected in Monitoring Wells LMW-1, LMW-2, MW-3R and W-11 at concentrations of 446.55 ug/L, 549.2 ug/L, 145.8 ug/L, and 5.8 ug/L, respectively. Individual compounds above NYSDEC standards are shown in Table 4-3. For BNs, naphthalene was detected in Wells LMW-1, LMW-2 and MW-3R at concentrations of 420 ug/L, 146 ug/L, and 44.1 ug/L, respectively; these concentrations are above the NYSDEC ground-water standard (10 ug/L) (see Table 4-4).

Review of the analytical data indicate that the ground-water impacts at the Island Park site are primarily situated near the area of the former loading rack and surrounding areas near wells

LMW-1, LMW-2, and MW-3R. Specifically, BTEX compounds were present in Wells LMW-1 and LMW-2.

Concentrations of DO in Wells LMW-1, LMW-2, and MW-3R ranged from 0.59 mg/L to 1.86 mg/L. ORP measurements in these three wells ranged from –109 mV to +10 mV. These concentrations and measurements suggest that Wells LMW-1, LMW-2, and MW-3R are within an anaerobic to transitional and reducing environment. In addition, the low concentrations of nitrate, and high concentrations of carbon dioxide and methane within this area suggest the depletion of available oxygen. These results indicate that the indigenous microorganisms in the ground water have consumed available oxygen in the subsurface. Consequently, oxygen enhancement applications will increase the aerobic biodegradation of site-specific compounds in the subsurface.

6.0 CLEANUP PLAN

As described in LAW's site investigation work plan, our preliminary approach to remediate the petroleum-impacted soils is to identify the areas of impacted soils and excavate and treat these "hot spot" areas. These impacted soils will be excavated and stockpiled for treatment either offsite or onsite. Based on the results of the soil characterization study and our experience with various soil remedial technologies, soils with concentrations of TPHs equal to or greater than approximately 2,500 mg/kg and less than about 5,000 mg/kg will be treated by using a thermal desorption technology. Soils with TPH concentrations less than 2,500 mg/kg and greater than 500 mg/kg will be treated by bioremediation processes (e.g. bio-piles). Soils with TPH concentrations less than about 500 mg/kg will be deemed clean, pending NYSDEC STARS end-point sampling results, and will be reused onsite.

Our proposed cleanup plan for the Island Park site consists of three main components: (1) Supplemental Soil Characterization Study; (2) Soil Remediation Plan; and (3) Ground Water Remediation Plan. A summary of each component of the cleanup plan is provided below.

6.1 Supplemental Soil Characterization Study

A supplemental soil characterization study will be performed to assess the potential "clean" areas of the Island Park site that were identified during the site investigation. The "clean" areas are defined as areas where TPH concentrations were less than about 500 mg/kg. In these areas, it is anticipated that soil quality conditions will meet the applicable NYSDEC soil cleanup criteria specified in STARS Memo 1 (NYSDEC, 1992). The potential "clean" areas at the Island Park site are shown on Figure 6-1.

To assess soil quality conditions in these potential clean areas, LAW proposes to complete 21 soil borings at locations shown on Figure 6-1. The borings will be advanced utilizing the Geoprobe direct-push method. Consistent with the sampling approach used during the initial soil characterization study, three discrete soil samples will be collected from each boring with a Macro core sampler. A shallow soil sample will be collected from the unsaturated zone at a

depth of about 0 to 18 inches bgs; an intermediate soil sample will be collected from the water table/smear zone; and a deep soil sample will be collected from near the top of the peat layer. The soil samples will be screened in the field for the presence of organic vapors using a PID.

Because it is expected that the soils in these areas will meet applicable soil cleanup criteria for on-site reuse, the three soil samples collected from each boring will be composited in the field. One composite sample from each boring will be placed on ice and transported to a New York-certified laboratory under chain-of-custody documentation and analyzed for VOCs and SVOCs using USEPA TCLP extraction methodologies specified in the STARS Memo 1. For Quality Assurance/Quality Control (QA/QC) purposes, one field blank and one trip blank will be prepared for each day sampling. The field blank will be analyzed for the suite of parameters to be analyzed by the laboratory for the samples collected that day. The trip blank will be analyzed for VOCs.

Downhole Geoprobe equipment (Macro core and drilling rods) will be cleaned with a Micro™ solution (or equivalent detergent solution) and distilled water rinse between borehole locations. Water generated during the decontamination procedures will be containerized in a 55-gallon steel drum(s) and staged on-site pending characterization for disposal purposes.

Based on the results of the supplemental soil characterization study, the boundaries of the "clean" areas will be refined to more accurately reflect the volume of soil to be treated either onsite or offsite.

6.2 Soil Remediation Plan

The areas of petroleum-impacted soils will be excavated and stockpiled for treatment either offsite or onsite depending on the concentrations of TPHs in the soil reported during the site investigation and the supplemental soil characterization study. Based on our experience with various soil remedial technologies, soils with concentrations of TPHs equal to or greater than about 2,500 mg/kg but less than 5,000 mg/kg will be treated by using thermal desorption

technology. Soils with TPH concentrations less than 2,500 mg/kg and greater than 500 mg/kg will be treated by bioremediation technologies (e.g. bio-piles). As described above, soils with TPH concentrations less than about 500 mg/kg will be deemed "clean" and will be reused onsite, pending NYSDEC STARS end-point sampling requirements (supplemental soil characterization study).

In addition to petroleum-impacted soils, a relatively small area of PCB-impacted soils was identified near former Tank 12 during a previous site investigation performed by Subsurface Investigations, Inc. The PCB-impacted soils will be cleaned-up via excavation and offsite disposal at a properly permitted facility.

Summaries of the thermal desorption and bioremediation technologies and the methodology for cleaning-up the PCB-impacted soils are provided below.

6.2.1 Low Thermal Treatment Desorption

As stated above, soils with concentrations of TPHs equal to or greater than approximately 2,500 mg/kg will be treated by using the low thermal desorption (LTTD) technology. Posillico Brothers Asphalt in Farmingdale, New York has been selected to perform this treatment. The LTTD technology is designed to provide the most effective means of soil treatment for the petroleum-contaminated materials. The process utilizes a rotary dryer thermal desorber to volatilize moisture and organics contained in the excavated soil. The off-gases from the desorber are treated to remove particulate matter. Removal of organics contained in the gas stream will be accomplished by a thermal oxidizer. Testing of the treated soil will be performed in accordance with soil receiving protocol for the Posillico Brothers Asphalt facility (see Appendix E).

Based on the results of the soil characterization study performed during December 2000 and calculations performed by Blue Island, it is anticipated that the following approximate volumes of on-site soil having an average concentration of TPHs of about 2,900 mg/kg will be thermally treated:

• Shallow soil layer (0 to 18 inches)	1,300 cubic yards
• Shallow soil layer (18 to 24 inches)	2,400 cubic yards
• Intermediate soil layer (24 to 48 inches)	7,800 cubic yards
• Deep soil layer (7 feet to 9 feet)	None
Estimated Total:	11,500 cubic yards

6.2.1.1 Soil Staging and Processing

Excavation and soil staging will be performed in a phased-approach. The soil excavation and treatment activities will be performed in five phases (see Figure 6-2). The phased-approach will minimize the disturbance of petroleum-impacted soil and thus reduce the potential for fugitive odors, dust (particulate) generation and erosion. In addition, the use of the bio-pile to treat soils will significantly reduce truck traffic in and out of the local neighborhood.

During Phase I, soils in the vicinity of former tanks 6, 7,8, 10 and 11 will be excavated. Phase IA will include the excavation of the PCB-impacted soil shown on Figure 6-1. During Phase II, soil near former tanks 1 through 5 and near the southeastern corner of the Island Park site will be excavated. Phase III will include the area near former Tank 9 and portions of Washington Avenue. Phase IV will include the former loading dock area and the southwestern corner of the site.

During the excavation of the soil during Phases I through IV, soil identified for the bio-pile will be stockpiled at the location shown on Figure 6-2. The bio-pile will be constructed in segments (cells) as the excavation proceeds. After a cell is completed, it will be covered with poly-sheeting to reduce odor migration and control dust and erosion.

Phase V will be completed after operation of the bio-pile is completed. Phase V will include the demolition of the concrete pads for former tanks 12, 13 and 14. Soils underlying these areas will be thermally treated at the Posillico Brothers facility for reuse onsite.

The feed material for thermal treatment will consist of onsite soils with TPH concentrations greater than about 2,500 mg/kg but less than 5,000 mg/kg (permit restriction of the Posillico

Brothers Asphalt facility). Identified soils will be excavated from the site and staged in an area designated for offsite treatment. Thermally treated soil will be staged on asphalt or concrete pavement with a maximum stockpile of approximately 3,000 cubic yards (see phasing sequence on Figure 6-2).

The soil will be transported directly to the Posillico Brothers Asphalt facility for treatment. The soil will be removed from the feed stockpile with a front-end loader and delivered to the feed metering unit where it will be placed into a feed hopper. Weight tickets and manifests will correspond to each load. Receipts for each load will be forwarded to the NYSDEC on a quarterly basis.

6.2.2 Bioremediation Treatment

Soils with TPH concentrations ranging from about 500 mg/kg to 2,500 mg/kg will be treated by bioremediation. Bioremediation treatment will include the construction of a "bio-pile". Based on the results of the soil characterization study performed during December 2000, and calculations performed by Blue Island, it is anticipated that the following approximate volumes of on-site soil having an average concentration of TPHs of 1,700 mg/kg will be treated in the bio-pile:

• Shallow soil layer (0 to 18 inches)	6,000 cubic yards
• Shallow soil layer (18 to 24 inches)	2,300 cubic yards
• Intermediate soil layer (24 to 48 inches)	10,800 cubic yards
• Deep soil layer (7 feet to 9 feet)	600 cubic yards
Estimated Total:	19,700 cubic yards

Based on the volume of soil expected to be treated in the bio-pile, Blue Island estimates that the dimensions of the bio-pile will be about 250 feet wide by 300 feet long and about 8 feet high.

Soils identified for bioremediation treatment will be excavated from selected areas of the site and staged near former Tanks 13 and 14 (see Figure 6-2). A 10-mil high-density polyethylene (HDPE) liner will be used to line the base of the soil bio-pile. Slotted PVC pipes (pipes at two different elevations in the pile) will be spaced 50-feet on center and will be connected to a 10- to

15-horsepower (hp) blower to enhance aerobic biodegradation of the petroleum hydrocarbons. After placing soil within the bio-pile, a 10-mil plastic cover will be placed on top of the bio-pile to reduce infiltration due to rain. The cover will be securely weighted with tires, bricks, or other heavy materials to secure (weight) the plastic and to reduce potential wind damage.

Factors that most commonly control the rate of petroleum hydrocarbon degradation include oxygen, temperature, solubility (and thus bioavailability) of contaminants, moisture content, nutrients, pH, and presence of other toxic species. Biodegradation rates are limited by the solubility and thus the bioavailability of the hydrocarbons, which is likely to be a major factor controlling the rate of biodegradation at the Island Park site. Other supplemental enhancements such as oxygen release compounds, nitrogen and total phosphorous will be evaluated to enhance the rate of biodegradation, if necessary. The soil pH will be recorded, and if it is below the ideal pH of 7, lime may be added to the soil pile. The total aerobic plate counts will be observed to assess whether or not the indigenous microbial population is suffering toxic effects.

Following construction of the bio-pile, LAW will collect three to five composite samples from representative areas of the pile for laboratory analysis to establish baseline conditions. Baseline samples will be analyzed for TPHs, total heterotrophic bacteria, soluble ammonia, ortho-phosphate, pH, and soil moisture. Samples for TPH analyses will be analyzed by USEPA Method 418.1. Percent oxygen, carbon dioxide, temperature, and moisture content will be measured using hand-held field instruments at strategic locations within the bio-pile during the baseline and subsequent sampling events.

It is estimated that the bio-pile will be operated for approximately 12 months. If the sampling results indicate that a longer term of operation is required, LAW will evaluate and identify alternative treatment methods and provide recommendations to potentially enhance the cleanup time. Alternative treatment options may include the circulation of an additional volume of air through the bio-pile, increase the moisture content of the bio-pile or the addition of nutrients at the surface to the bio-pile.

6.2.2.1 Operation and Maintenance

A LAW engineer or qualified environmental professional will perform monthly site visits during the planned one-year operation period. It is anticipated that each visit will require 1 day at the site. During these visits, the bio-pile will be inspected for damage due to wind, rain, exposure to the elements, and vandalism. Damage will be corrected immediately by Blue Island. LAW will test soil moisture and temperature with hand-held monitoring instruments at several depths within the treatment cell. During each monthly visit, the bio-pile will be mixed with a crawler-mounted auger. If necessary, nutrient and oxygen supplements will be added periodically.

6.2.2.2 Sampling and Analysis

The sampling program will consist of collecting three representative samples from the bio-pile using a decontaminated stainless steel hand auger. Sample locations will be selected based on visual and olfactory observations so that the areas with the highest TPH concentrations are selected for laboratory analysis. The aliquots will be collected over the full depth of each pile to ensure representative sample results. After collection, the aliquot samples will be composited. Therefore, one composite sample from each treatment cell will be submitted for laboratory analyses. It is assumed that the analytical work will be performed at Level I (screening). Therefore, replicates, trip blanks, or equipment blank samples will not be collected. The equipment will be cleaned prior to use and between sampling. The plastic liner covers will be resealed with duct tape.

Samples to be composited will be blended manually in a stainless steel pan or bowl using a decontaminated stainless steel spoon. A new pair of clean disposable gloves will be worn for each composite soil sample collected. After compositing the soil, the samples will be tightly packed with no headspace into laboratory-supplied sample containers.

After collection, the composite soil samples will be preserved in the field by placing the samples in an iced cooler. The ice in the coolers will be replaced as needed to ensure that a temperature

of 4 degrees Celsius (°C) is maintained until receipt by the laboratory. A sample label will be placed on each container, indicating the date and time of collection, sampler's name, location, sample identification, preservatives added, and required analyses. Each container will be placed in a suitable packing material to reduce the risk for breakage during transport.

Chain-of-custody control procedures will be used throughout this project to establish a written record of sample handling between the sampler and the analytical laboratory. Each sample cooler will have a copy of the chain of custody form attached to the inside lid. One copy of the chain of custody form will be retained by the sampler for inclusion in the project files.

6.2.3 PCB-Impacted Soil Area

Review of the Subsurface Investigations, Inc. report dated June 1994 shows a small area of soil impacted with PCBs. This area is located about 100 feet west of former Tank 12 and adjacent to Simmons Hassock Creek. Concentrations of PCBs in this area were reported to range from 1.0 mg/kg to 4.0 mg/kg. The data presented in the Subsurface Investigations report shows this area to be adequately delineated. The approximate location of the PCB-impacted soil is shown on Figure 6-1.

It is anticipated that the excavation of the PCB-impacted soil will proceed following the completion of the Phase I soil excavation work. Based on the approximate locations of the previous borings, Blue Island will survey the general location of the PCB-impacted soils. This area will be flagged and the impacted soil excavated and disposed offsite. A total of six post-excavation samples (end-point samples) will be collected and analyzed for PCBs using USEPA Method 8081 to assess post-remediation soil quality conditions in this area. A copy of the figure prepared by Subsurface Investigations depicting the location of PCB-impacted soil is provided in Appendix D.

6.2.4 Concrete Pad Removal

The concrete pads of the former aboveground tanks will be crushed and temporarily stored near the Phase IV area of the site (see Figure 6-2). Further, the concrete pads are underlain by a series of wood pilings, which were used to support the former fuel oil tanks. Soil quality conditions underlying the concrete pads are unknown. Because the depth of the pilings is also unknown, removal of the pilings may not be feasible. Therefore, if remediation of soils underlying the concrete pad is required based on TPH concentrations, or visual observations made in the field, either surgical excavation of the soils will be performed, or injection of an oxidizing agent (hydrogen peroxide) may be performed to remediate the soils in-situ. This determination will be made in the field.

6.2.5 Erosion, Dust and Odor Control Measures

6.2.5.1 Erosion Control

Stockpiled material will be placed on hard surface areas and covered with 6-mil plastic sheeting to reduce erosion. During excavation of the onsite soils, erosion control measures will be implemented to minimize the potential of offsite erosion of soil. The existing silt fences and hay bales that surround portions of the Island Park site will be utilized and replaced/repaired as necessary, to maintain the integrity of the erosion control measures. Additional silt fences will be erected as conditions and site activities warrant.

6.2.5.2 Dust Control

Dust control will be accomplished by minimizing the area of the site that is disturbed (excavated) at any one time. Blue Island intends to excavate the impacted soil in manageable segments (cells), which will minimize the amount of dust potentially generated during the excavation activities. In addition, for the heavily impacted soil (TPH concentrations of 2500 mg/kg to 5000 mg/kg), Blue Island will construct manageable stockpiles (less than 3000 cubic yards) of this material and transport this material off site for thermal treatment at the Posillico Brothers

Asphalt facility before additional stockpiles are created. Stockpiled material will also be covered with plastic sheeting to minimize dust migration.

During periods of long arid conditions, the stockpile soils may also be wetted, or calcium chloride may be added to the pile as dust control measures, if necessary.

6.2.5.3 Odor Control

Similar to the dust control measures, fugitive odors will be minimized by sequencing the excavation activities at the Island Park site. Specifically, small work zones will be constructed during the excavation work, particularly in the areas exhibiting the highest concentrations of TPHs, in order to minimize the surface area of disturbance at the site. The bio-pile will be constructed in segments (cells) and covered after each cell is constructed.

6.2.5.4 Perimeter Air Monitoring

During the excavation activities, air monitoring along the perimeter of the Island Park site will be performed on a daily basis. A Blue Island technician will utilize a portable photoionization detector and monitor for the presence of organic vapors along the perimeter of the site. In addition, airborne particulate will be monitored along the perimeter of the Island Park site. Measurements and observations will be recorded in a field log for inclusion in the project file.

6.3 Ground-Water Remediation Plan

Based on the results of the January 2001 ground-water sampling round, slightly anaerobic conditions exist in the ground water. Oxygen is commonly added to ground water to enhance aerobic biodegradation, which is already occurring at the site. Oxygen release compound (ORC) is a magnesium peroxide-based material that is added to ground water as a slow-dissolving powder, to provide oxygen to ground water to enhance the aerobic degradation of BTEX and other aerobically degraded compounds. For the Island Park site, the injection of ORC is selected

over biosparging because of its ease of implementation and ability to degrade the site-specific constituents of concern.

ORC is generally added using one of two methods: via a "sock" that is inserted directly into a series of monitoring wells; or directly as a slurry into a "Geoprobe", or a similar temporary well-point. For the Island Park site, the slurry method is proposed. A technical data sheet for the ORC treatment is provided in Appendix F.

The areas near Wells LMW-1, LMW-2 and MW-3R are targeted for treatment. It is estimated that a total of 20 Geoprobe points will be installed in each area. The wells will be located on 10-foot centers surrounding each target monitoring well. The locations of the areas of proposed treatment are shown on Figure 6-2.

6.3.1 Ground-Water Sampling and Analysis

Upon completion of the soil excavation activities, a round of ground water samples will be collected from the existing monitoring well network to assess ground water quality conditions. The purpose of this initial sampling round is to establish baseline conditions prior to the ORC treatment. The ground-water samples will be collected using the low-flow (micro purging) technique. The ground water samples will be analyzed for NYSDEC STARS VOCs using USEPA Method 8021 and NYSDEC STARS BNs using USEPA Method 8270.

Following ORC treatment, ground-water samples will be collected from the existing monitoring wells on a quarterly basis during the first year after ORC treatment and semi-annually during subsequent years until remedial end-points are achieved or the case is closed by the NYSDEC. The ground-water samples will be collected using the low-flow (micro purging) technique. The samples will be analyzed for NYSDEC STARS VOCs using USEPA Method 8021 and NYSDEC STARS BNs using USEPA Method 8270. The ground-water samples will be delivered by Blue Island to ETL Laboratory, a New York-certified analytical laboratory under chain of custody documentation.

In addition, the samples will be analyzed in the field for selected monitored natural attenuation parameters: ferrous and ferric iron, pH, specific conductance, temperature, dissolved oxygen, and ORP. For quality assurance purposes, a field blank will be prepared daily and analyzed for the suite of parameters analyzed by the laboratory. A trip blank for VOCs will accompany the samples.

7.0 HEALTH AND SAFETY PLAN

The site-specific health and safety (H&S) plan for the cleanup activities planned for the Island Park facility is provided in Appendix G. Included in the H&S plan are directions to the local hospital, and emergency telephone numbers in the event of an emergency at the Island Park site.

8.0 REFERENCES

1. Law Environmental Consultants, Inc., 2000. Site Investigation Work Plan, Former Cibro Island Park Site, Island Park, New York.
2. Subsurface Investigations, Inc. 1993. Remedial Investigation/Feasibility Study, Former Cibro Petroleum Terminal, 7 Washington Avenue, Island Park, New York.
3. USGS, 1963. Hydrogeology of Northwestern Nassau and Northeastern Queens Counties, Long Island, New York. Water Supply Paper 1657.
4. USGS, 1989. Hydrogeologic Framework of the New Jersey Coastal Plain – Regional Aquifer Analysis. Professional Paper 1404-B.

TABLES

Table 2-1
Summary of Former Aboveground Storage Tanks at the Former Cibro Petroleum Facility, Island Park, New York.
LAW Project Number 22000-0-0026

Tank ID	Capacity (gallons)	Last Known Contents	Date of Construction
AST-1	500,000	SPDES Tank (Gasoline)	1940
AST-2	500,000	SPDES Tank (Gasoline)	1940
AST-3	180,000	SPDES Tank (Kerosene)	1944
AST-4	180,000	SPDES Tank (#4 Fuel Oil)	1944
AST-5	424,000	Empty (Gasoline)	1948
AST-6	630,000	Empty (Gasoline)	1948
AST-7	635,000	Empty (#4 Fuel Oil)	1948
AST-8	630,000	Empty (Gasoline)	1948
AST-9	1,255,000	Gasoline (#2 Fuel Oil)	1955
AST-10	1,264,000	Gasoline (#2 Fuel Oil)	1955
AST-11	1,264,000	Gasoline (#2 Fuel Oil)	1955
AST-12	3,405,000	No. 2 Fuel Oil	1965
AST-13	3,401,000	No. 2 Fuel Oil	1965
AST-14	3,407,000	No. 2 Fuel Oil	1965

( ) Indicates previoius contents during Oil Products Inc. ownership.

Prepared by: SH 10/26/00
Checked by: DW

Table 3-1
Summary of Water Level Data Collected at the
Former Cibro Petroleum Facility, Island Park, New York
LAW Project Number 22000-0-0026

Well ID	Current Reference Point Elevation (ft msl)	January 8, 2001 Measured Depth to Water (ft)	January 8, 2001 Ground-Water Elevation (ft msl)
LMW-1	104.05	5.65	98.40
LMW-2	103.79	5.38	98.41
LMW-3	103.80	4.11	99.69
LMW-4	104.69	5.72	98.97
LMW-5	103.24	5.08	98.16
MW-1	102.05	2.56	99.49
MW-2	101.87	3.84	98.03
MW-3R	104.55	6.79	97.76
MW-5	WD	NA	NA
MW-6	98.80	0.00	98.80
MW-8	WD	NA	NA
OW-1	102.64	3.24	99.40
W-1	WD	NA	NA
W-2	101.07	4.47	96.60
W-11	101.64	3.60	98.04
W-12	101.99	4.05	97.94

Notes:

ft	feet
msl	mean sea level.
WD	Well destroyed.
NA	Not available.

Prepared by/Date: SH 01/19/01 SH
Checked by/Date: JR 02/05/01 JR

Table 4-1. Summary of Total Petroleum Hydrocarbon Analyses for Soil SamplesCollected at the Former Cibro Petroleum Facility, Island Park, New York.

	Ground Elevation[1] (feet)	Sample Depth (ft bgs) (shallow)	Sample Elevation[1] (feet) (shallow)	TPH (mg/kg)	Sample Depth (ft bgs) (intermediate)	Sample Elevation[1] (feet) (intermediate)	TPH (mg/kg)	Sample Depth (ft bgs) (deep)	Sample Elevation[1] (feet) (deep)	TPH (mg/kg)	Depth of Peat (ft bgs)	Elevation[1] of Peat (feet)
SB-1	96.6		NS	NS	1	95.60	1,430	5	91.60	177	4	92.60
SB-2	97.5		NS	NS	2	95.50	430	7	90.50	164	7	90.50
SB-3	96.5		NS	NS	1	95.50	1,140	7	89.50	135	6	90.50
SB-4	97.3		NS	NS	2	95.30	2,670	8	89.30	128	8	89.30
SB-5	98		NS	NS	2	96.00	3,130	8	90.00	211	7	91.00
SB-6	98.6		NS	NS	2	96.60	3,100	7	91.60	193	6	92.60
SB-7	97.3		NS	NS	1	96.30	2,290	9	88.30	151	8	89.30
SB-8	97.5		NS	NS	1.5	96.00	3,350	7	90.50	270	6	91.50
SB-9	97.1		NS	NS	1	96.10	3,300	8	89.10	147	8	89.10
SB-10	97.6		NS	NS	1.5	96.10	2,820	7	90.60	306	6	91.60
SB-11	98		NS	NS	2	96.00	2,850	8	90.00	212	7	91.00
SB-12	98.9		NS	NS	2	96.90	2,360	7	91.90	169	6	92.90
SB-13	98.2		NS	NS	1.5	96.70	3,120	7	91.20	182	6	92.20
SB-14	99.8	1.5	98.30	154	4	95.80	3,020	7	92.80	239	6	93.80
SB-15	99.5		NS	NS	2	97.50	167	7	92.50	62	6	93.50
SB-16	100	2	98.00	2,590	4	96.00	2,840	7	93.00	82	6	94.00
SB-17	99.4	2	97.40	652	4	95.40	2,240	10	89.40	39	9	90.40
SB-18	98.8		NS	NS	1.5	97.30	2,910	13	85.80	29	12	86.80
SB-19	100	1	99.00	68	3	97.00	2,690	11	89.00	75	10.5	89.50
SB-20	99.1		NS	NS	2	97.10	2,400	13	86.10	41	12	87.10
SB-21	99.4	2	97.40	2,400	4.5	94.90	3,100	7	92.40	82	6	93.40
SB-22	99.5	2	97.50	1,970	4.5	95.00	2,900	7	92.50	200	6	93.50
SB-23	99.7		NS	NS	4	95.70	2,840	9	90.70	134	8	91.70
SB-24	100	2	98.00	2,970	4	96.00	2,970	8	92.00	234	7	93.00
SB-25	100.7	2	98.70	3,040	4	96.70	3,110	9	91.70	143	8	92.70
SB-26	99.6	1.5	98.10	2,300	4	95.60	430	8	91.60	52	7	92.60
SB-27	99.7	1.5	98.20	672	3.5	96.20	78	8	91.70	48	8	91.70
SB-28	98.7	1	97.70	1,610	2.5	96.20	2,460	9	89.70	130	9	89.70
SB-29	99.75	2	97.75	2,660	4	95.75	2,390	9	90.75	113	8	91.75
SB-30	100.3		NS	NS	2	98.30	1,950	16	84.30	31	16	84.30
SB-31	100.4	2	98.40	439	4.5	95.90	2,910	9	91.40	617	8	92.40
SB-32	99.9		NS	NS	1.5	98.40	2,520	14	85.90	185	11	88.90
SB-33	100.1	2	98.10	2,930	4	96.10	2,020	9	91.10	207	9	91.10
SB-34	100.6	1.5	99.10	857	3.5	97.1	103	9	91.6	508	8	92

Footnotes on last page.

Table 4-1. Summary of Total Petroleum Hydrocarbon Analyses for Soil SamplesCollected at the Former Cibro Petroleum Facility, Island Park, New York.

	Ground Elevation[1] (feet)	Sample Depth (ft bgs) (shallow)	Sample Elevation[1] (feet) (shallow)	TPH (mg/kg)	Sample Depth (ft bgs) (intermediate)	Sample Elevation[1] (feet) (intermediate)	TPH (mg/kg)	Sample Depth (ft bgs) (deep)	Sample Elevation[1] (feet) (deep)	TPH (mg/kg)	Depth of Peat (ft bgs)	Elevation[1] of Peat (feet)
SB-35	100.35	2	98.35	2,170	4.5	95.85	2,260	9	91.35	381	8.5	91.85
SB-36	100.95	2	98.95	2,200	5	95.95	2,410	9	91.95	115	8	92.95
SB-37	101.1	1.5	99.60	993	3	98.10	2,960	7	94.10	229	7	94.10
SB-38	100.7	1.5	99.20	2,410	4	96.70	2,340	9	91.70	247	8	92.70
SB-39	100.2	2	98.20	2,940	4	96.20	2,630	9	91.20	126	8	92.20
SB-40	100.1	1.5	98.60	2,790	4	96.10	2,480	9	91.10	38	9	91.10
SB-41	99.8	2	97.80	37	4	95.80	64	8	91.80	142	7	92.80
SB-42	100	1.5	98.50	2,940	3.5	96.50	3,140	9	91.00	347	8	92.00
SB-43	99.8	1.5	98.30	720	4	95.80	1,940	8	91.80	280	7	92.80
SB-44	100.1	1.5	98.60	3,260	4	96.10	3,010	9	91.10	419	8	92.10
SB-45	99.7	1.5	98.20	2,730	3.5	96.20	3,080	9	90.70	204	8	91.70
SB-46	99.35	1.5	97.85	2,990	4	95.35	2,860	13	86.35	106	12	87.35
SB-47	99.85	1.5	98.35	3,130	3.5	96.35	3,160	9	90.85	343	8	91.85
SB-48	99.7	1.5	98.20	1,810	5	94.70	2,190	8	91.70	2,200	7	92.70
SB-49	99	1.5	97.50	3,970	2.5	96.50	3,580	6	93.00	530	5	94.00
SB-50	98		NS	NS	1.5	96.50	1,540	8.5	89.50	114	8	90.00
SB-51	99.5	1.5	98.00	45	3	96.50	15	7	92.50	31	NE	NE
SB-52	99		NS	NS	4	95.00	2,770	8	91.00	139	8	91.00
SB-53	100.3	1.5	98.80	495	4	96.30	26	9	91.30	81	9	91.30
SB-54	100.5	1.5	99.00	70	3	97.50	28	8	92.50	37	8	92.50
SB-55	100	1.5	98.50	172	3	97.00	22	7	93.00	39	NE	NE
SB-56	101.5	2	99.50	177	4	97.50	73	9	92.50	135	9	92.50
SB-57	99.6	1.5	98.10	1,860	3.5	96.10	852	9	90.60	28	8	91.60
SB-58	101	1.5	99.50	83	4	97.00	1,970	11	90.00	241	10	91.00
SB-59	100.7	1.5	99.20	240	4	96.70	157	8	92.70	312	NE	NE
SB-60	100.3		NS	NS	2	98.30	452	8	92.30	140	8	92.30
SB-61	100.5	1.5	99.00	127	4	96.50	132	8	92.50	262	7	93.50
SB-62	101.1	1.5	99.60	2,190	4	97.10	2,570	8	93.10	58	8	93.10
SB-63	99.4		NS	NS	2.5	96.90	100	9	90.40	37	9	90.40
SB-64	100	1.5	98.50	1,810	4	96.00	116	8	92.00	89	NE	NE
SB-65	99.3		NS	NS	2	97.30	35	7	92.30	52	NE	NE
SB-66	99.5	1	98.50	2,410	3.5	96.00	37	7	92.50	44	NE	NE
SB-67	101	1.5	99.50	685	3	98.00	1,250	7	94.00	62	NE	NE
SB-68	99.9	1.5	98.40	290	4	95.90	808	7.5	92.40	2,230	NE	NE
SB-69	99.9	1.5	98.40	817	3	96.90	52	7	92.90	30	NE	NE
SB-70	100	1.5	98.50	1,610	3.5	96.50	2,710	9	91.00	150	8	92.00

Footnotes on last page.

[1] - Feet relative to onsite datum.

mg/kg - Milligrams per kilogram (parts per million)

Shallow - soil samples collected at a depth of about 0-18 inches below ground surface.

Intermediate - soil samples collected at the smear zone/water table generally at a depth of about 24-48 inches below ground surface.

Deep - soil samples collected at a depth of about 7 to 9 feet below ground surface.

NS - Not sampled.

NE - Not encountered.

bgs - Below ground surface.

TPH - Total petroleum hydrocarbons using Method 418.1.

Prepared by/Date: SH 2/6/01 SH

Checked by/Date: DJN 2/6/01 DJN

Table 4-2
Well Construction Details for the Monitoring Wells Installed at the Former Cibro Petroleum Facility, Island Park, New York.

Monitoring Well Designation	Date Completed	Well Diameter (inches)	Elevation of Measuring Point1 (ft above datum)	Total Depth (ft bgs)	Screen Intervals (ft bgs)	Screen Slot Size (inches)
MW-1	NA	4	102.05	14.51	NA	NA
MW-2	NA	4	101.87	14.00	NA	NA
MW-3R	12/11/2000	2	104.55	11.00	1-11	0.02
MW-6	NA	1	98.80	4.50	NA	NA
LMW-1	12/11/2000	2	104.05	11.00	1-11	0.02
LMW-2	12/11/2000	2	103.79	11.00	1-11	0.02
LMW-3	12/11/2000	2	103.80	11.00	1-11	0.02
LMW-4	12/11/2000	2	104.69	11.00	1-11	0.02
LMW-5	12/11/2000	2	103.24	11.00	1-11	0.02
OW-1	NA	4	102.64	10.00	NA	NA
W-2	NA	4	101.07	11.00	NA	NA
W-11	NA	4	101.64	10.20	NA	NA
W-12	NA	4	101.99	10.50	NA	NA

1 - Elevation relative to onsite datum.
ft bgs - Feet below ground surface.

Prepared by/Date: SH 2/5/01
Checked by/Date: JR 2/12/01

Table 4-3

Summary of Volatile Organic Compound Analyses for Ground-Water Samples Collected at the Former Cibro Petroleum Facility, Island Park, New York. LAW Project Number 22000-0-0026

Well Identification: / Date Sampled:	MW-1 1/8/01	MW-2 1/8/01	MW-3R 1/9/01	MW-6 1/9/01	LMW-1 1/9/01	LMW-2 1/10/01	LMW-3 1/10/01	LMW-4 1/8/01	LMW-5 1/9/01	*NYSDEC Ground-Water Standards
Benzene	ND	ND	ND	ND	109	ND	ND	ND	ND	1
Toluene	ND	ND	ND	ND	ND	0.79	ND	ND	ND	5
Ethylbenzene	ND	ND	ND	ND	48	34.1	ND	ND	ND	5
m, p-xylenes	ND	ND	ND	ND	1.1	20.5	ND	ND	ND	5
o-xylenes	ND	ND	ND	ND	1	4.6	ND	ND	ND	5
Total BTEX	ND	ND	ND	ND	159.1	59.99	ND	ND	ND	NS
Isopropylbenzene	ND	ND	3.8	ND	23.3	8	ND	ND	ND	5
n-Propylbenzene	ND	ND	5.6	ND	28.5	12.1	ND	ND	ND	5
1,3,5-trimethylbenzene	ND	ND	ND	ND	4	19.9	ND	ND	ND	5
tert-butylbenzene	ND	ND	ND	ND	0.85	ND	ND	ND	ND	5
1,2,4-trimethylbenzene	ND	ND	ND	ND	ND	123	ND	ND	ND	5
sec-butylbenzene	ND	ND	2.6	ND	9.4	4.4	ND	ND	ND	5
p-isopropyltoluene	ND	ND	15.8	ND	6.1	7.9	ND	ND	ND	5
n-Butylbezene	ND	ND	ND	ND	6.5	6.8	ND	ND	ND	5
Napththalene	ND	ND	118	ND	352	148	ND	ND	ND	10
MTBE	ND	ND	ND	ND	15.9	ND	ND	ND	ND	50
Total Volatile Organic Compounds	ND	ND	145.8	ND	446..55**	330.10**	ND	ND	ND	NS

All concentrations in micrograms per liter; equivalent to parts per billion.
ND Not detected above laboratory reporting limits.
NS No Standard.
* New York State Ambient Water Quality Standards and Guidance Values, June 1998.
** Total volatile organic compounds, excluding total BTEX.

Prepared by/Date: SH 2/6/01 SH
Checked by/Date: JR 2/12/01 JR

Table 4-3
Summary of Volatile Organic Compound Analyses for Ground-Water Samples Collected at the Former Cibro Petroleum Facility, Island Park, New York.
LAW Project Number 22000-0-0026

Well Identification: / Date Sampled:	OW-1 1/8/01	W-2 1/10/01	W-11 1/9/01	W-12 1/9/01	FB-010801 1/8/01	FB-010901 1/9/01	TB-010801 1/8/01	TB-010901 1/10/01	*NYSDEC Ground-Water Standards
Benzene	ND	ND	ND	ND	ND	ND	ND	ND	1
Toluene	ND	ND	ND	ND	ND	ND	ND	ND	5
Ethylbenzene	ND	ND	ND	ND	ND	ND	ND	ND	5
m, p-xylenes	ND	ND	ND	ND	ND	ND	ND	ND	5
o-xylenes	ND	ND	ND	ND	ND	ND	ND	ND	5
Total BTEX	ND	ND	ND	ND	ND	ND	ND	ND	NS
Isopropylbenzene	ND	ND	ND	ND	ND	ND	ND	ND	5
n-Propylbenzene	ND	ND	ND	ND	ND	ND	ND	ND	5
1,3,5-trimethylbenzene	ND	ND	ND	ND	ND	ND	ND	ND	5
tert-butylbenzene	ND	ND	ND	ND	ND	ND	ND	ND	5
1,2,4-trimethylbenzene	ND	ND	ND	ND	ND	ND	ND	ND	5
sec-butylbenzene	ND	ND	ND	ND	ND	ND	ND	ND	5
p-isopropyltoluene	ND	ND	ND	ND	ND	ND	ND	ND	5
n-Butylbezene	ND	ND	ND	ND	ND	ND	ND	ND	5
Napththalene	ND	ND	5.8	ND	ND	ND	ND	ND	10
MTBE	ND	ND	ND	ND	4.1	3.9	3.8	4.6	50
Total Volatile Organic Compounds	ND	ND	5.8	ND	4.1	3.9	3.8	4.6	NS

All concentrations in micrograms per liter; equivalent to parts per billion.
ND Not detected above laboratory reporting limits.
NS No Standard.
* New York State Ambient Water Quality Standards and Guidance Values, June 1998.

Prepared by/Date: SH 2/6/01 SH
Checked by/Date: JR 2/12/01 SR

Table 4-4
Summary of Base Neutral Compound Analyses for Ground-Water Samples Collected at the Former Cibro Petroleum Facility, Island Park, New York.
LAW Project Number 22000-0-0026

Well Identification: / Date Sampled:	MW-1 1/8/01	MW-2 1/8/01	MW-3R 1/9/01	MW-6 1/9/01	LMW-1 1/9/01	LMW-2 1/10/01	LMW-3 1/10/01	LMW-4 1/8/01	LMW-5 1/9/01	*NYSDEC Ground-Water Standards
Napththalene	ND	ND	44.1	0.50J	420	146	0.43J	0.43J	ND	10
Acenaphthene	ND	1.7	4.7	0.54J	7.5	6.2	ND	ND	ND	20
Fluorene	ND	ND	5.1	ND	13.8	8.9	ND	ND	ND	50
Phenanthrene	ND	ND	4.4	ND	14.3	10.8	ND	0.43J	ND	50
Anthracene	ND	ND	ND	ND	0.39J	0.77J	ND	ND	ND	50
Fluoranthene	ND	0.34J	ND	ND	ND	ND	ND	ND	ND	50
Pyrene	ND	0.24J	ND	ND	ND	ND	ND	ND	ND	50

All concentrations in micrograms per liter; equivalent to parts per billion.
ND Not detected above laboratory reporting limits.
NS No Standard.
J Indicates an estimated value; concentration reported was detected below the method detection limit.
* New York State Ambient Water Quality Standards and Guidance Values, June 1998.

Prepared by/Date: SH 2/6/01
Checked by/Date: JR 2/12/01

Table 4-4
Summary of Base Neutral Compound Analyses for Ground-Water Samples Collected at the Former Cibro Petroleum Facility, Island Park, New York.
LAW Project Number 22000-0-0026

Well Identification: / Date Sampled:	OW-1 1/8/01	W-2 1/10/01	W-11 1/9/01	W-12 1/9/01	FB-010801 1/8/01	FB-010901 1/9/01	TB-010801 1/8/01	TB-011001 1/10/01	*NYSDEC Ground-Water Standards
Napththalene	ND	ND	0.72J	0.33	ND	ND	NA	NA	10
Acenaphthene	ND	ND	14.7	5	ND	ND	NA	NA	20
Fluorene	ND	ND	4.4	1.5	ND	ND	NA	NA	50
Phenanthrene	ND	ND	2.7	0.87	ND	ND	NA	NA	50
Anthracene	ND	ND	0.39J	ND	ND	ND	NA	NA	50
Fluoranthene	ND	ND	0.86	ND	ND	ND	NA	NA	50
Pyrene	ND	ND	0.39J	ND	ND	ND	NA	NA	50

All concentrations in micrograms per liter; equivalent to parts per billion.
ND Not detected above laboratory reporting limits.
NS No Standard.
J Indicates an estimated value; concentration reported was detected below the method detection limit.
NA Not analyzed.
* New York State Ambient Water Quality Standards and Guidance Values, June 1998.

Prepared by/Date: SH 2/6/01 SH
Checked by/Date: JR 2/12/01 JR

Table 4-5
Summary of Field Parameter Measurements of Ground-Water Samples Collected January 2001
at the Former Cibro Petroleum Facility, Island Park, New York.
LAW Project Number 22000-0-0026

Well ID	Date Sampled	Temperature (°C)	pH	Specific Conductance (uS/cm)	ORP (mV)	DO (mg/L)	Turbidity (NTU)	Sulfide (mg/L)	Ferrous Iron (mg/L)
MW-1	1/8/01	6.51	7.00	0.466	126.6	5.58	13.3	0	0
MW-2	1/8/01	7.03	7.83	1.056	-88	1.46	12.5	0	0
MW-3R	1/9/01	7.68	6.99	2.975	-81.1	0.59	26.1	0.25	4.2
MW-6	*	*	*	*	*	*	*	*	*
OW-1	1/8/01	4.52	7.11	1.321	-81.6	2.43	8.9	0	3.8
W-2	1/10/01	7.14	6.86	1.673	45.1	0.62	15.7	0.15	0
W-11	1/9/01	5.51	6.82	32.900	-208	0.58	15.1	6.75	0
W-12	1/9/01	2.23	7.58	29.700	101.3	7.04	1.8	0.1	0
LMW-1	1/9/01	5.49	7.61	1.921	-109.2	1.86	32.1	0	2
LMW-2	1/10/01	3.41	6.95	0.756	10.4	1.81	14.2	0	2.2
LMW-3	1/10/01	3.35	6.96	1.928	-180.3	3.82	2.2	12	2.6
LMW-4	1/8/01	5.10	7.02	0.711	-189.9	1.47	13.3	1.75	3.2
LMW-5	1/9/01	5.29	6.87	32.750	107.4	4.61	0.2	0	1.5

Field parameter readings measured at time of sample collection

°C	Degrees celsius.	DO	Dissolved Oxygen.
uS/cm	Microsiemens per centimeter.	mg/L	Milligrams per liter.
ORP	Oxidation-reduction potential.	NTU	Nephelometric turbidity units.
mV	Millivolts.	NC	Not collected.
*	Insufficient water for parameter readings.		

Prepared/Date: SH 2/6/01 SH
Checked/Date: JR 2/12/01 JR

Table 4-6
Summary of Biogeochemical Data for Ground-Water Samples Collected at the Former Cibro Petroleum Facility, Island Park, New York.
LAW Project Number 22000-0-0026

Well Identification: / Date Sampled:	MW-1 1/8/01	MW-2 1/8/01	MW-3R 1/9/01	MW-6 1/9/01	LMW-1 1/9/01	LMW-2 1/10/01	LMW-3 1/10/01	LMW-4 1/8/01	LMW-5 1/9/01
Iron (total)	1,840	739	29,600	NS	32,300	14,800	4,930	3,940	1,130
Iron (dissolved)	119J	58.9J	40.4J	NS	146J	57.2J	34.5J	78.3J	30.1J
Manganese (total)	53.9	68.8	660	NS	428	284	334	313	469
Dissolved manganese (dissolved)	20.5	52.9	426	NS	342	278	296	246	387
Total organic carbon	17.5	11.6	86	NS	240	102	67.7	67.2	29.2
Dissolved total organic carbon	8.62	10.4	68.9	NS	138	56.1	19.4	44.6	16.7
Alkalinity	94.6	227	912	NS	736	334	598	260	161
Ammonia	ND	0.23J	7.56	NS	10.7	2.67	0.23J	ND	ND
Biological Oxygen Demand (BOD)	2.2	21.4	15.9	NS	10.2	10.5	8	9.8	77
Chemical Oxygen Demand (COD)	39.9	33.5	203	NS	564	215	123	76.3	7,970
Chloride	103	220	738	NS	416	117	293	56.3	524
Nitrate	0.12	ND	0.017J	NS	ND	0.03	0.067	0.042	0.11
Nitrite	ND	ND	0.091	NS	0.033	0.03	0.38	ND	0.018J
Sulfate	36.9	68.2	11.1	NS	44.7	20.6	52.5	36.1	1,860
Carbon dioxide	16.9	NC	114.8	NC	NC	104.3	NC	NC	26.2
Oxygen	3.52	NC	ND	NC	NC	ND	NC	NC	ND
Nitrogen	14.8	NC	3.2	NC	NC	7.6	NC	NC	13.3
Methane	ND	NC	16.5	NC	NC	9.35	NC	NC	ND

All concentrations in milligrams per liter; equivalent to parts per million.
ND Not detected above laboratory reporting limits.
NS Not sampled; insufficient water for sample collection.
NC Not collected.
J Indicates an estimated value; concentration reported was detected below the method detection limit.

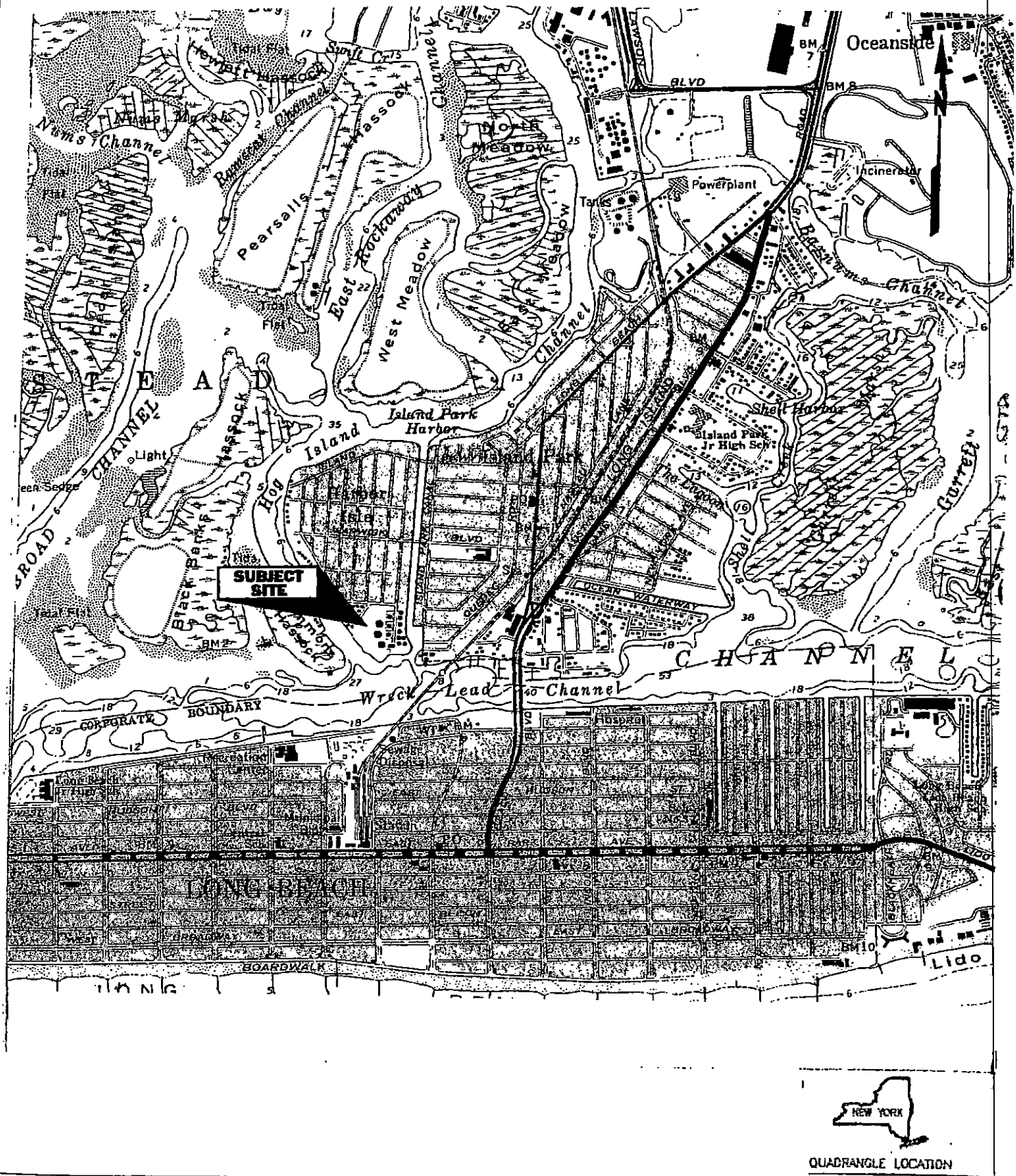
Prepared/Date: SH 2/6/01 SH
Checked/Date: JR 2/12/01 TR

Table 4-6
Summary of Biogeochemical Data for Ground-Water Samples Collected at the Formerr Cibro Petroleum Facility, Island Park, New York.
LAW Project Number 22000-0-0026

Well Identification: / Date Sampled:	OW-1 1/8/01	W-2 1/10/01	W-11 1/9/01	W-12 1/9/01	FB-010801 1/8/01	FB-010901 1/9/01
Iron (total)	10,800	2,670	7,410	133	ND	82.3
Iron (dissolved)	48.8J	92.5J	156J	26.1J	ND	45.3J
Manganese (total)	358	172	386	15.7	ND	0.97
Dissolved manganese (dissolved)	299	166	295	16.5	ND	4.55
Total organic carbon	54.7	36.2	26.8	13.2	0.94	15.5
Dissolved total organic carbon	30.5	22.1	2.19	8.03	0.31	4.66
Alkalinity	338	256	197	105	0.98	8.78
Ammonia	ND	0.52	ND	ND	ND	ND
Biological Oxygen Demand (BOD)	2.7	31	5	21	1.6	1.25
Chemical Oxygen Demand (COD)	102	102	3,220	4,910	12.1	29
Chloride	191	400	6,160	5,470	ND	0.19
Nitrate	0.087	1.05	0.05	1.3	0.056	0.027
Nitrite	0.013J	0.008J	0.016J	0.015J	ND	ND
Sulfate	93.3	20.5	1,800	1,320	ND	ND
Carbon dioxide	65.7	60.7	27.3	NC	NC	NC
Oxygen	0.19	ND	ND	NC	NC	NC
Nitrogen	14.7	11.3	12.4	NC	NC	NC
Methane	ND	0.49	0.44	NC	NC	NC

All concentrations in milligrams per liter; equivalent to parts per million.
ND Not detected above laboratory reporting limits.
NS Not sampled; insufficient water for sample collection.
NC Not collected.
J Indicates an estimated value; concentration reported was detected below the method detection limit.

Prepared/Date: SH 2/6/01 SH
Checked/Date: JR 2/12/01 JR



OURCE: USGS 7.5 QUADRANGLE (TOPOGRAPHIC) LAWERENCE, NEW YORK

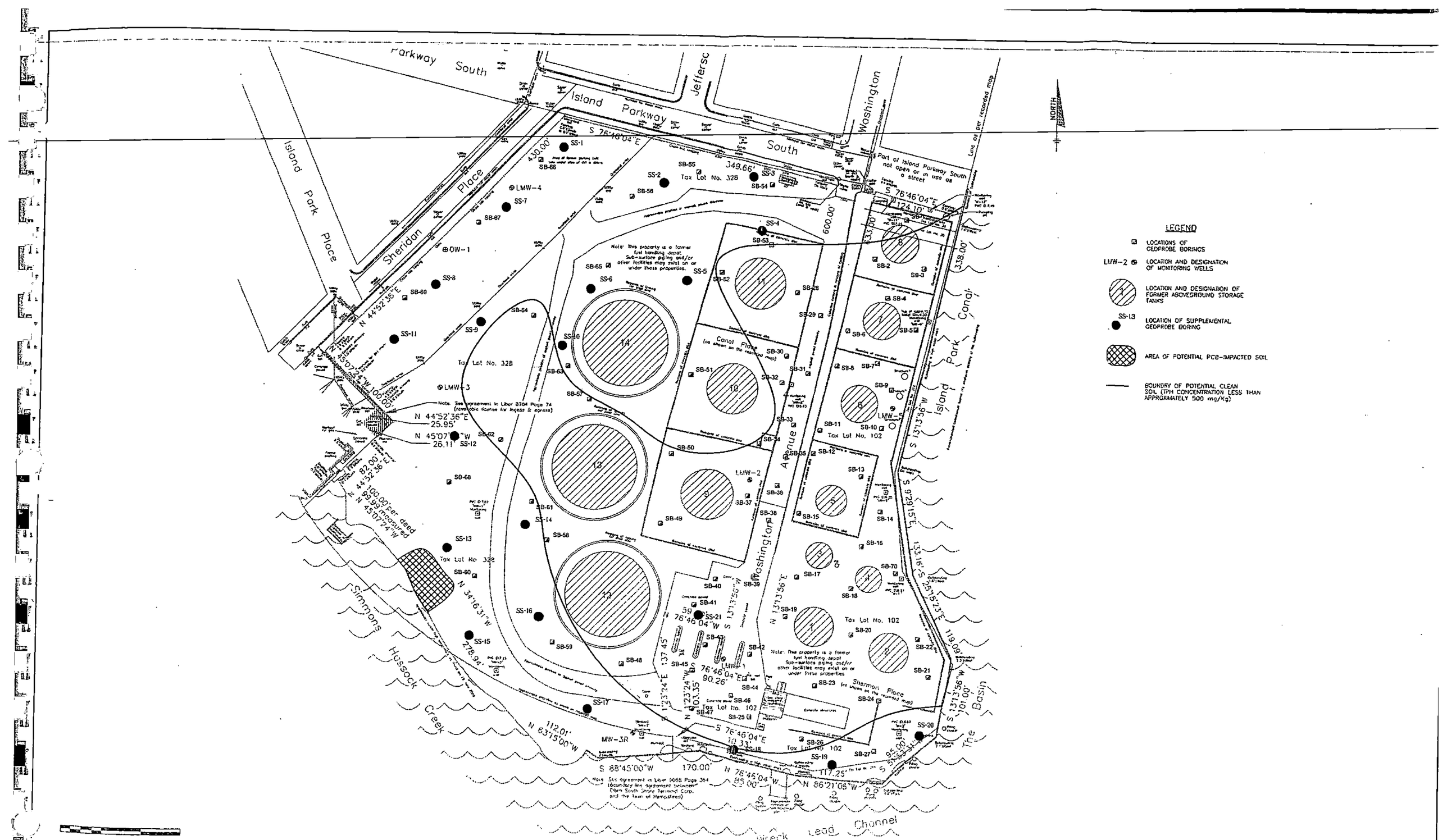
0 2000 4000 SCALE 1"=200

BLUE ISLAND, LLC.
FORMER CIBRO FACILTITY
ISLAND PARK NY

LAW
ONE SUMMIT SQUARE, SUITE 402
ROUTE 413 & DOUBLEWOODS ROAD
LANGHORNE, PA

SITE LOCATION MAP

PROJECT: 22000-0-0026
PREPARED: DFJ FIGURE 1

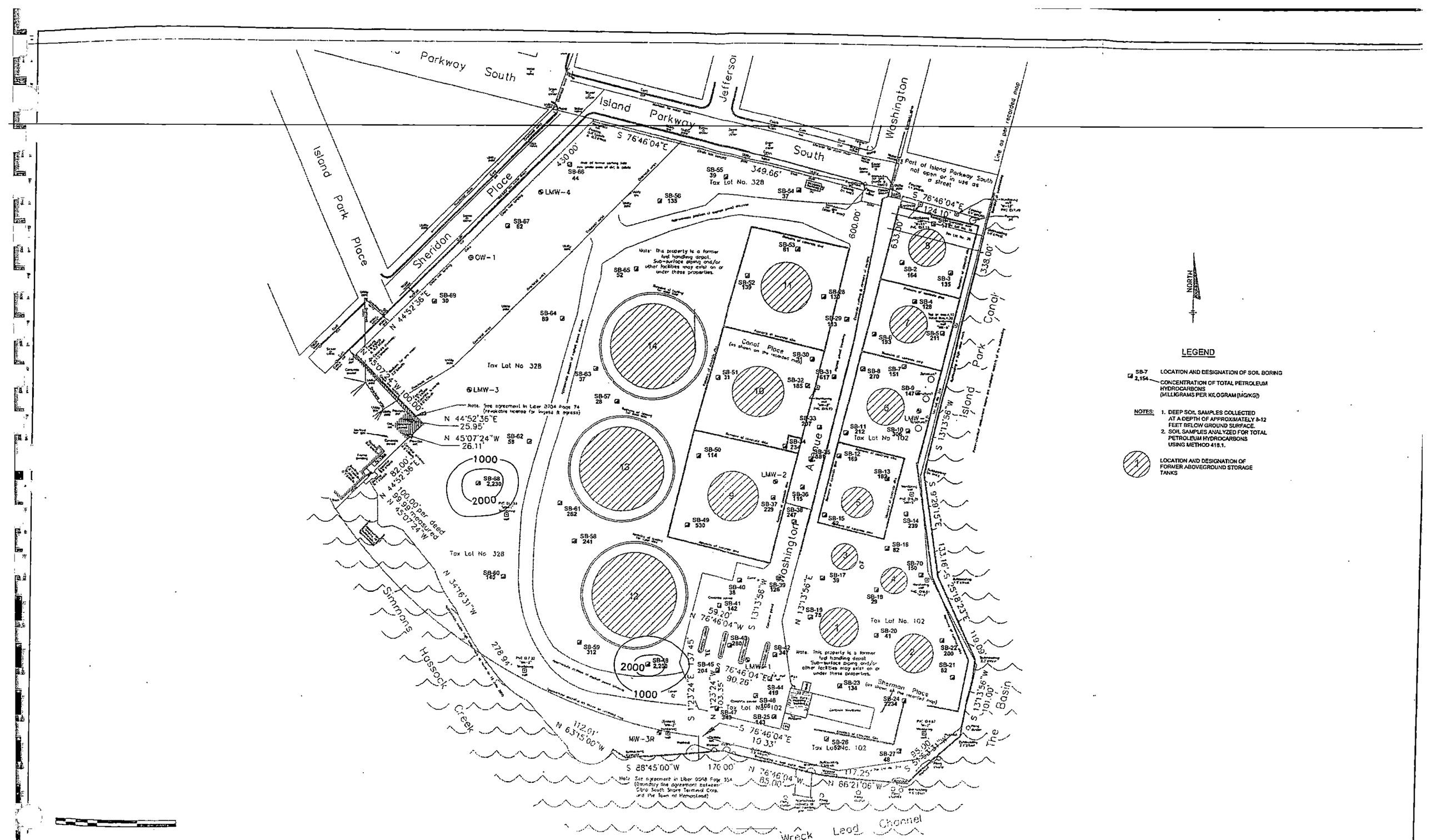


BLUE ISLAND, LLC.
FORMER CIBRO PETROLEUM FACILITY
ISLAND PARK, NEW YORK

LAW
ENGINEEERING AND ENVIRONMENTAL SERVICES, INC.

DRAWING TITLE
LOCATIONS OF PROPOSED SUPPLEMENTAL SOIL BORINGS AND POTENTIAL CLEAN SOIL AREAS

FIGURE NUMBER 6-1
SCALE: 1"=50'
PROJECT NUMBER 2200.0-0026



LEGEND

SB-7 / 2,154 — LOCATION AND DESIGNATION OF SOIL BORING; CONCENTRATION OF TOTAL PETROLEUM HYDROCARBONS (MILLIGRAMS PER KILOGRAM (MG/KG))

NOTES:
1. DEEP SOIL SAMPLES COLLECTED AT A DEPTH OF APPROXIMATELY 9-12 FEET BELOW GROUND SURFACE.
2. SOIL SAMPLES ANALYZED FOR TOTAL PETROLEUM HYDROCARBONS USING METHOD 418.1.

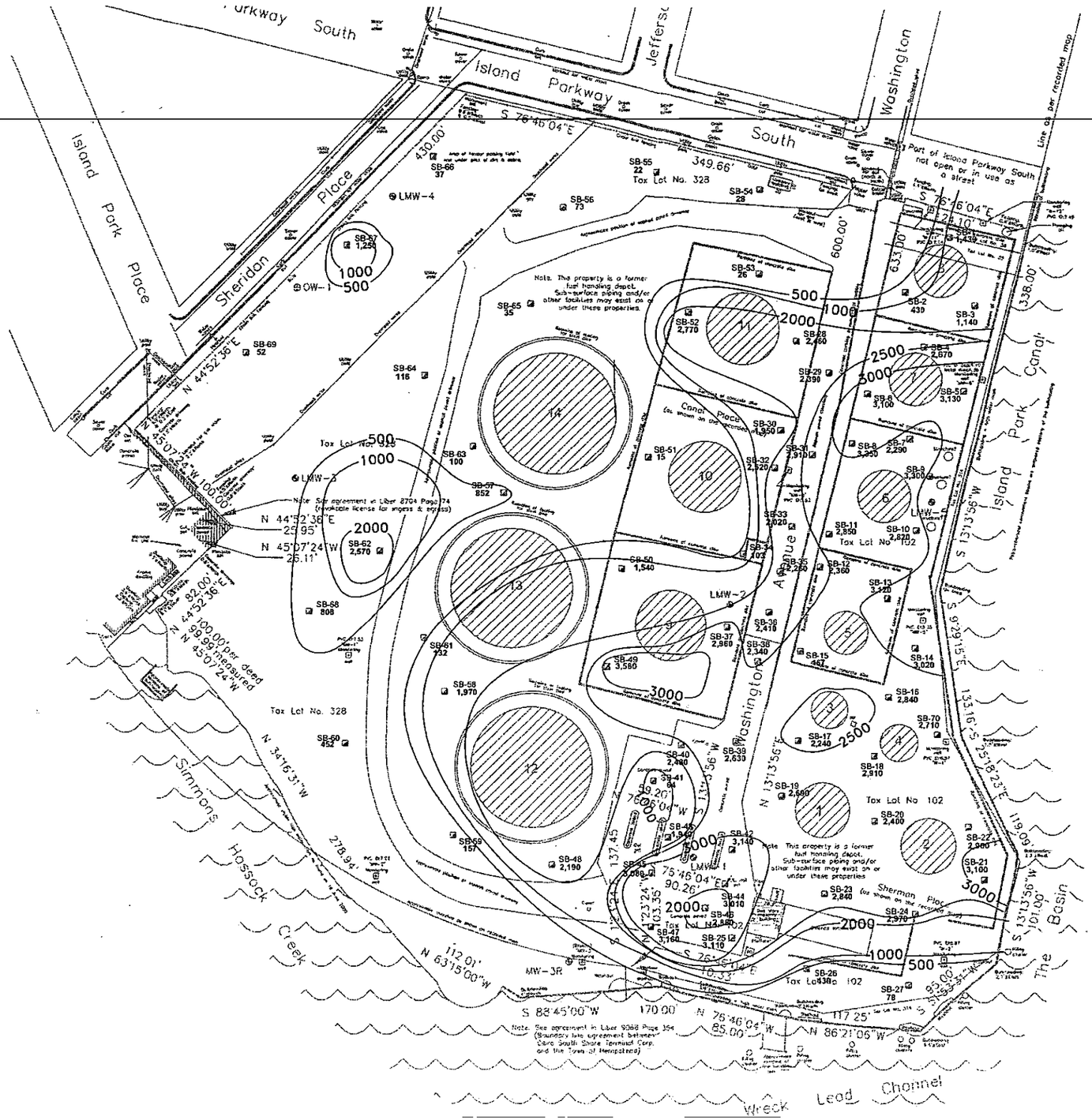
1 — LOCATION AND DESIGNATION OF FORMER ABOVEGROUND STORAGE TANKS

BLUE ISLAND, LLC.
FORMER CIBRO PETROLEUM FACILITY
ISLAND PARK, NEW YORK

LAW
ENGINEEERING AND ENVIRONMENTAL SERVICES, INC.

DRAWING TITLE
ISOCONCENTRATION MAP OF TOTAL PETROLEUM HYDROCARBONS IN DEEP SOIL LAYER

FIGURE NUMBER 4-3
SCALE: 1"=50'
PROJECT NUMBER 32090.0026
ISSUE DATE 31 JAN 01



NORTH

LEGEND

SB-7 / 2,154 — LOCATION AND DESIGNATION OF SOIL BORING; CONCENTRATION OF TOTAL PETROLEUM HYDROCARBONS (MILLIGRAMS PER KILOGRAM (MG/KG))

NOTES:
1. INTERMEDIATE SOIL SAMPLES COLLECTED AT A DEPTH OF APPROXIMATELY 24-48 INCHES BELOW GROUND SURFACE.
2. SOIL SAMPLES ANALYZED FOR TOTAL PETROLEUM HYDROCARBONS USING METHOD 418.1.

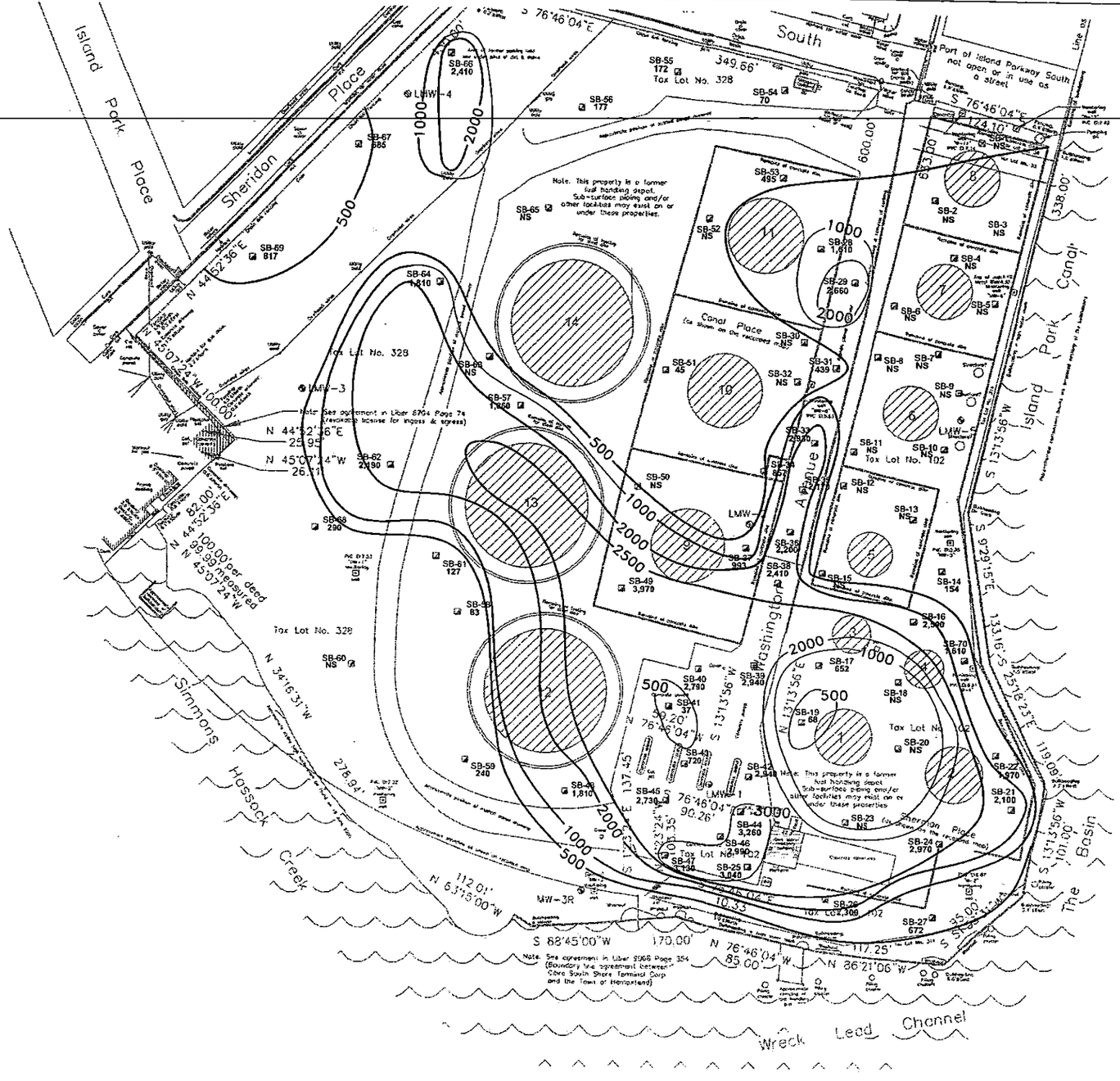
1 — LOCATION AND DESIGNATION OF FORMER ABOVEGROUND STORAGE TANKS

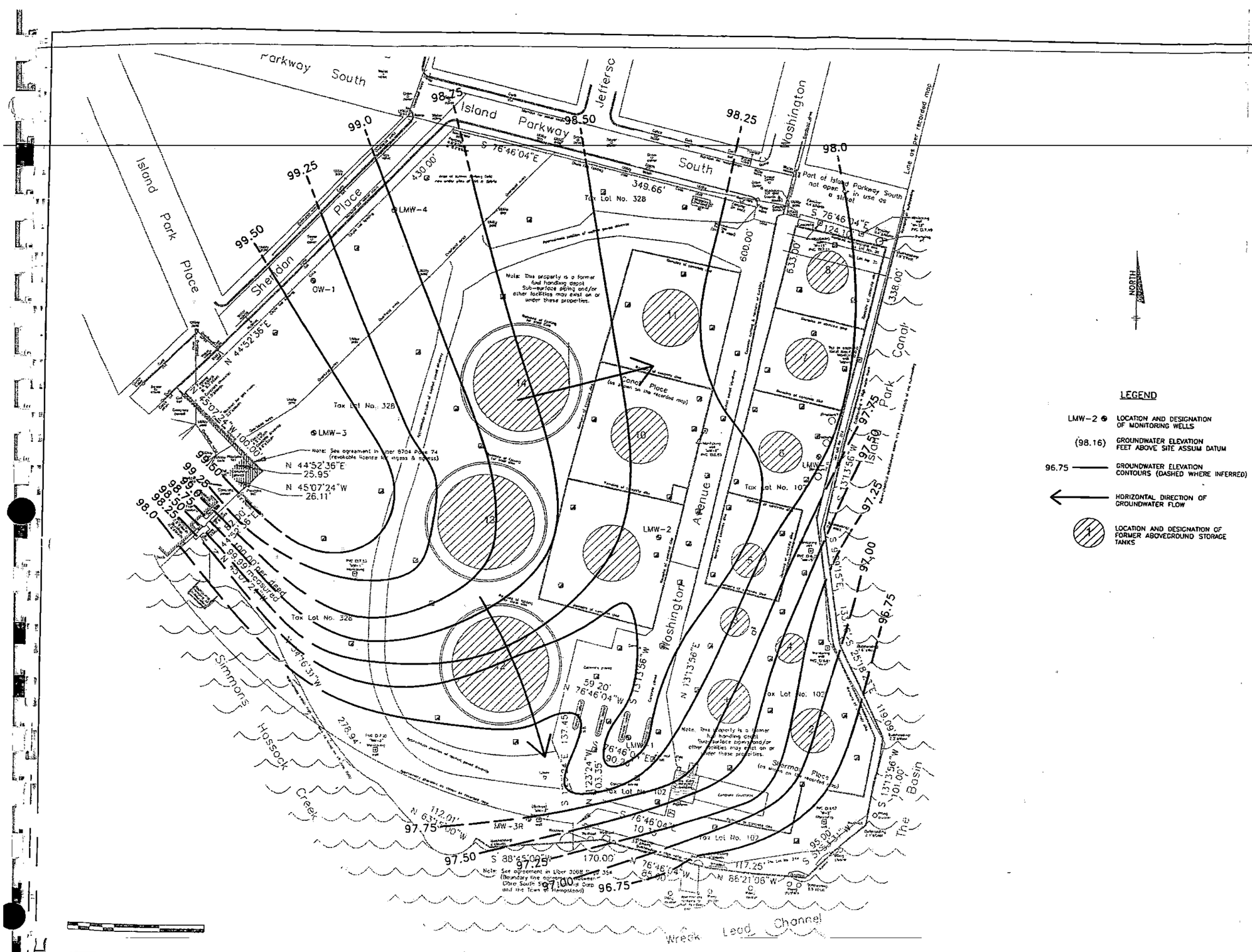
BLUE ISLAND, LLC.
FORMER CIBRO PETROLEUM FACILITY
ISLAND PARK, NEW YORK

LAW
ENGINEEERING AND ENVIRONMENTAL SERVICES, INC.

DRAWING TITLE
ISOCONCENTRATION MAP OF TOTAL PETROLEUM HYDROCARBONS IN THE INTERMEDIATE SOIL LAYER

FIGURE NUMBER 4-2
SCALE 1"=50'
PROJECT NUMBER 22060-0-0025
ISSUE DATE 31 JAN 01


Island Park Place
Sheridan Place
South
Port of Island Parkway South not open or in use as a street
Canal Place
Island Park Canal
Washington Avenue
Simmons Hossack Creek
The Basin
Wreck Lead Channel
Tax Lot No. 328
Tax Lot No. 102
Note: This property is a former fuel handling depot. Sub-surface piping and/or other facilities may exist on or under these properties.
Note: See agreement in Liber 8764 Page 74 (Revocable license for ingress & egress)
Note: See agreement in Liber 9068 Page 354 (Boundary line agreement between Cibro South Shore Terminal Corp and the Town of Hempstead)
LMW-1
LMW-2
LMW-3
LMW-4
LMW-5
MW-3R
500
1000
2000
2500
3000
N 44°52'36"E 106.00'
N 45°07'24"W 106.00'
N 44°52'36"E 25.95'
N 45°07'24"W 26.11'
S 76°46'04"E 349.66'
S 76°46'04"E 174.10'
S 13°13'56"W 338.00'
S 13°13'56"W 101.00'
N 13°13'56"E 600.00'
S 13°13'56"W 600.00'
N 44°52'36"E 82.00'
N 44°52'36"E 100.00' per deed
N 45°07'24"W 99.99' measured
N 34°16'31"W 276.94'
N 63°13'00"W 112.01'
S 68°45'00"W 170.00'
N 76°46'04"W 85.00'
N 36°21'06"W 117.25'
S 13°13'56"W 119.09'
S 13°13'56"W 133.16'
S 76°46'04"E 90.26'
N 76°46'04"W 90.20'
S 13°13'56"W 137.45'
S 13°13'56"W 10.33'
S 13°13'56"W 35.00'
S 13°13'56"W 35.00'
S 92°15'E 133.16'
S 25°38'25"E 119.09'
N 13°13'56"E 25.00'
N 13°13'56"E 25.00'
SB-1 through SB-70
MW-1 through MW-5
Tax Lot No. 328
Tax Lot No. 102
Tax Lot No. 2
Tax Lot No. 2300
Tax Lot No. 2309
Tax Lot No. 2304
Tax Lot No. 2302
Tax Lot No. 2306
Tax Lot No. 2308
Tax Lot No. 2310
Tax Lot No. 2312
Tax Lot No. 2314
Tax Lot No. 2316
Tax Lot No. 2318
Tax Lot No. 2320
Tax Lot No. 2322
Tax Lot No. 2324
Tax Lot No.



NORTH

LEGEND

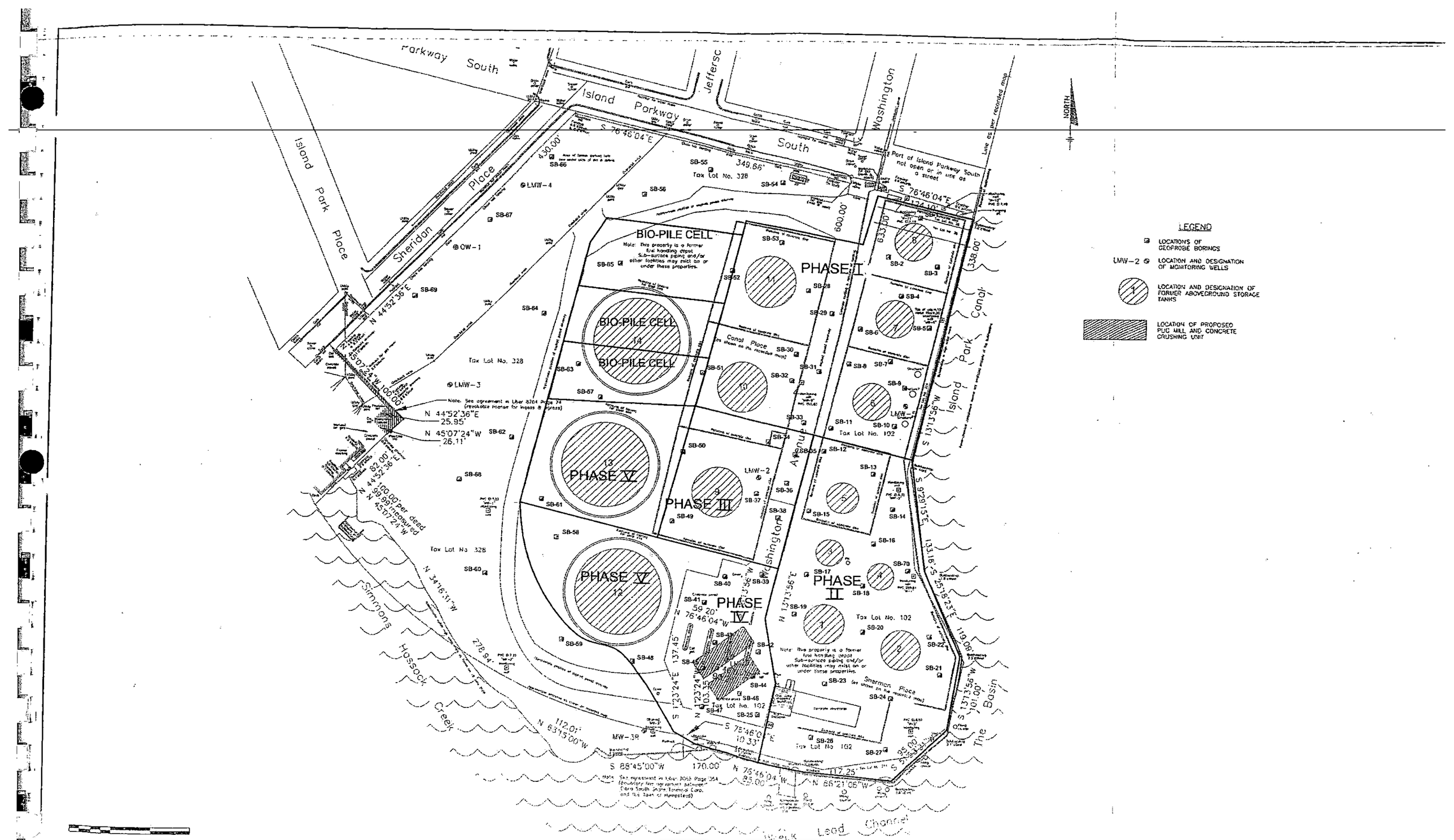
- LMW-2 ⊕ — LOCATION AND DESIGNATION OF MONITORING WELLS
- (98.16) — GROUNDWATER ELEVATION FEET ABOVE SITE ASSUM DATUM
- 96.75 ——— GROUNDWATER ELEVATION CONTOURS (DASHED WHERE INFERRED)
- ← HORIZONTAL DIRECTION OF GROUNDWATER FLOW
- (1) LOCATION AND DESIGNATION OF FORMER ABOVEGROUND STORAGE TANKS

BLUE ISLAND, LLC.
FORMER CIBRO PETROLEUM FACILITY
ISLAND PARK, NEW YORK

LAW
ENGINEEERING AND ENVIRONMENTAL SERVICES, INC.

DRAWING TITLE:
CONFIGURATION OF THE WATER TABLE AQUIFER
JANUARY 8, 2001

FIGURE NUMBER 3-1
SCALE 1"=50'
PROJECT NUMBER 22000-0-0026
ISSUE DATE 31 JAN 01



LEGEND

- LOCATIONS OF GEOPROBE BORINGS
- LMW-2 ⊕ LOCATION AND DESIGNATION OF MONITORING WELLS
- LOCATION AND DESIGNATION OF FORMER ABOVEGROUND STORAGE TANKS
- LOCATION OF PROPOSED PUC MILL AND CONCRETE CRUSHING UNIT

BLUE ISLAND, LLC.
FORMER CIBRO PETROLEUM FACILITY
ISLAND PARK, NEW YORK.

LAW
ENGINEEERING AND ENVIRONMENTAL SERVICES, INC.

DRAWING TITLE

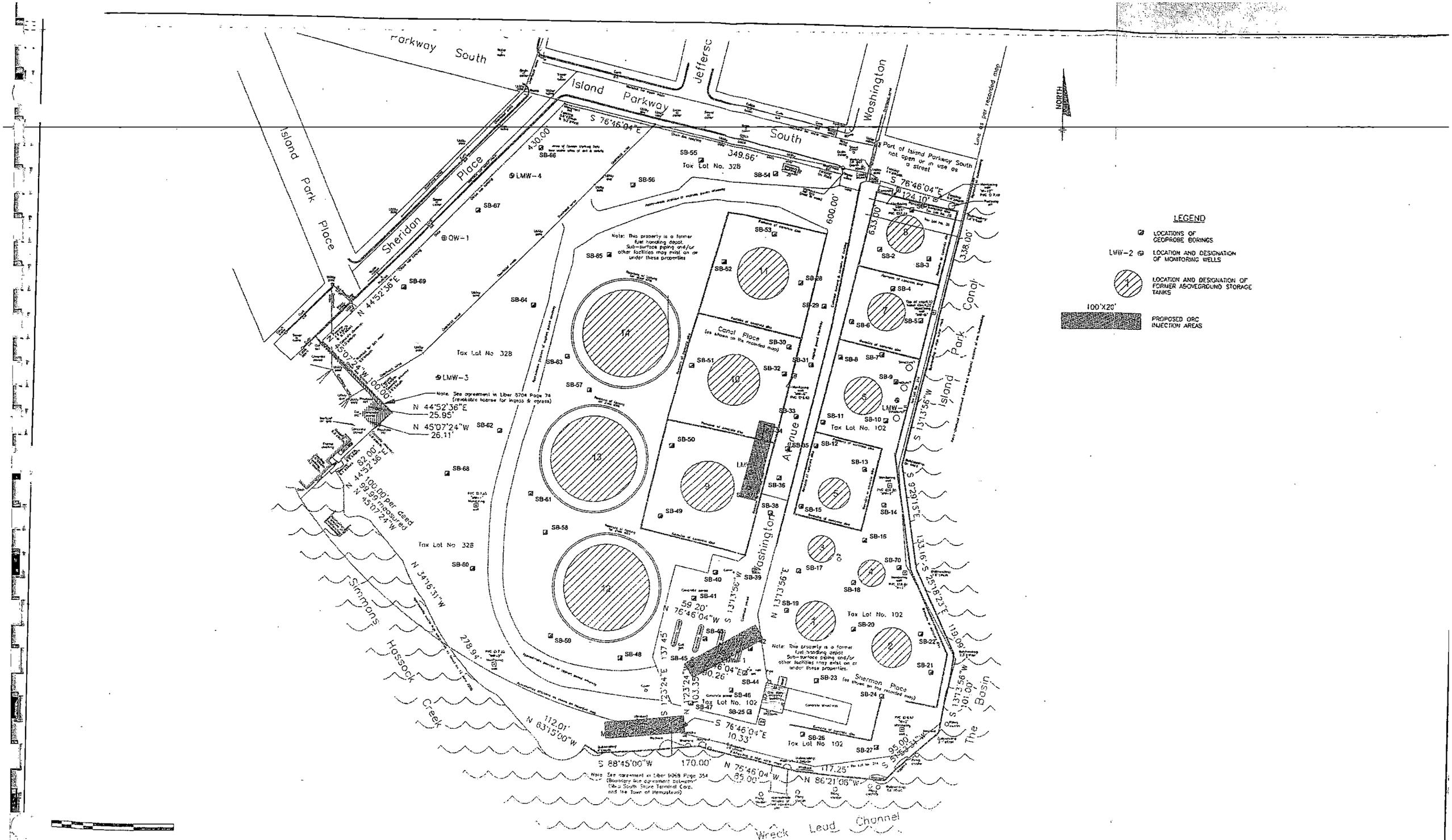
SOIL EXCAVATION
STAGING PROCESS

FIGURE NUMBER 6-2

SCALE

PROJECT NUMBER 122090-04/06

ISSUE DATE 05 FEB 01



BLUE ISLAND, LLC.
FORMER CIBRO PETROLEUM FACILITY
ISLAND PARK, NEW YORK

LAW
ENGINEEERING AND ENVIRONMENTAL SERVICES, INC.

DRAWING TITLE
LOCATIONS OF PROPOSED AREAS FOR ORC INJECTION TREATMENT IN THE SHALLOW AQUIFER

FIGURE NUMBER 6-3
SCALE 1"=50'
PROJECT NUMBER 22008-0-0026
ISSUE DATE 05FEB01

FIGURES

APPENDIX A

LAWGIBB GROUP

Sample/Core Log

SITE NAME
SITE LOCATION

Boring/Well SB-1 Project/No. 22000-0-0026-300 Page 1 of 1

Site Location Former Ciba Pet. Facility Island PARK, NY Drilling Started 12/8/00 Drilling Completed 12/8/00

Total Depth Drilled 8 Feet Hole Diameter 2 inches Type of Sample/ Coring Device MACRO CORE

Length and Diameter of Coring Device 4 FOOT x 2 INCHES Sampling Interval CONT feet

Land-Surface Elev. 96.6 feet ☒ Surveyed ☐ Estimated Datum ON-SITE

Drilling Fluid Used — Drilling Method Geoprobe

Drilling Contractor ZEBRA ENVIRONMENTAL Driller Brent Helper Rocky

Prepared By SCOTT HORSHALL Hammer Weight NA Hammer Drop NA ins.

Sample/Core Depth (feet below land surface) From	To	Core Recovery (feet)	Time/Hydraulic Pressure or Blows per 6 Inches	Sample/Core Description DTW 0.5' bgs
0.0	4.0	3.0	00-05	Sand (m) black STAINED 10ppm
				0.5-2.5 Sand (m) slag, odor 10-15ppm
				2.5-3.0 Sand (m) slag - with some Peat/Clay 5ppm
4.0	8.0	3.0		0.0-3.0 Clay/Peat Red/Brown mottled odor
				16 1'
				to 5'

LAWGIBB GROUP

Sample/Core Log

SITE NAME
SITE LOCATION

Boring/Well SB-2 Project/No. 22000-0-0026-300 Page 1 of 1

Site Location Former Cibro Pet. Facility Island Park, NY

Drilling Started 12/8/00 Drilling Completed 12/8/00

Total Depth Drilled 8 Feet Hole Diameter 2 inches Type of Sample/ Coring Device MACRO CORE

Length and Diameter of Coring Device 4 Foot x 2 Inches Sampling Interval CONT feet

Land-Surface Elev. 97.5 feet ☒ Surveyed ☐ Estimated Datum ON-SITE

Drilling Fluid Used — Drilling Method Geoprobe

Drilling Contractor ZEBRA ENVIRONMENTAL Driller Brent Helper Rob

Prepared By Scott Horshall Hammer Weight NA Hammer Drop NA ins.

Sample/Core Depth (feet below land surface) From	To	Core Recovery (feet)	Time/Hydraulic Pressure or Blows per 6 Inches	Sample/Core Description
				DTW 1.0' bgs
0.0	4.0	2.6	—	0.0 - 1.9 Sand (m) gray, odor 30 ppm
				1.9 - 2.6 Sand (f) gray, odor 50 ppm
4.0	8.0	4.0	—	0.0 - 2.5 Sand (f), odor, sheen
				black - gray 60-70 ppm
				2.5 - 3.0 silt / clay Red gray
				sl. odor 5-10 ppm
				3.0 - 4.0 Clay / Silt Red Brown
				26 2'
				2c 7'

LAWGIBB GROUP

Sample/Core Log

SITE NAME
SITE LOCATION

Boring/Well SB-3 Project/No. 22000-0-0026-300 Page 1 of 1

Site Location Former Cibro Pet. Facility Island Park, NY

Drilling Started 12/ /00 Drilling Completed 12/ /00

Total Depth Drilled 8 Feet Hole Diameter 2 inches Type of Sample/ Coring Device MACRO CORE

Length and Diameter of Coring Device 4 FOOT x 2 INCHES Sampling Interval CONT feet

Land-Surface Elev. 96.5 feet ☒ Surveyed ☐ Estimated Datum ON-SITE

Drilling Fluid Used — Drilling Method Geoprobe

Drilling Contractor ZEBRA ENVIRONMENTAL Driller Brent Helper Rocky

Prepared By SCOTT HORSHALL Hammer Weight NA Hammer Drop NA ins.

DTW 0.5' bgs

Sample/Core Depth (feet below land surface) From	To	Core Recovery (feet)	Time/Hydraulic Pressure or Blows per 6 Inches	Sample/Core Description
0.0	4.0	3.0		0.0-0.2 SILTY SAND, black 5ppm
				0.2-3.0 sand (m) grading to a coarse sand grey w/ petro odor 30 ppm
4.0	8.0	4.0		0.0-0.6 Sand (f) grey, petro odor 20ppm
				0.6-2.0 Sand (c) grey odor 30ppm
				2.0-4.0 Clay/Silt Red brown
				3b 1'
				3c 7'

LAWGIBB GROUP

Sample/Core Log

SITE NAME
SITE LOCATION

Boring/Well SB-4 Project/No. 22000-0-0026-300 Page 1 of 1

Site Location Former Ciba Pet. Facility Island Park, NY Drilling Started 12/8/00 Drilling Completed 12/8/00

Total Depth Drilled 12 Feet Hole Diameter 2 inches Type of Sample/ Coring Device MACRO CORE

Length and Diameter of Coring Device 4 FOOT x 2 INCHES Sampling Interval CONT feet

Land-Surface Elev. 97.3 feet ☒ Surveyed ☐ Estimated Datum ON-SITE

Drilling Fluid Used — Drilling Method Geoprobe

Drilling Contractor ZEBRA ENVIRONMENTAL Driller Brent Helper Ricky

Prepared By SCOTT MARSHALL Hammer Weight NA Hammer Drop NA ins.

Sample/Core Depth (feet below land surface) From	To	Core Recovery (feet)	Time/Hydraulic Pressure or Blows per 6 inches	Sample/Core Description DTW 1'
0.0	4.0	2.7	—	0.0-1.6 Sand (m) STAINED black, petrol odor, sheen 15-20 ppm
				1.6-2.7 Sand (m) Gray black sheen, odor, PR 5-10 ppm
4.0	8.0	2.1		0.0-0.6 SAA 20 ppm
				0.6-0.9 clay & silt brown-gray 10 ppm
				0.9-2.1 Sand (c) gray-black med. odor. 10-15 ppm
8.0	12	3.0		clay/silt red brown mottled odor
				4C 2'
				4C 8'

LAWGIBB GROUP

Sample/Core Log

SITE NAME
SITE LOCATION

Boring/Well SB-5 Project/No. 22000-0-0026-300 Page 1 of 1

Site Location Former Cibro Pet. Facility Island Park, NY

Drilling Started 12/8/00 Drilling Completed 12/8/00

Total Depth Drilled 8 Feet Hole Diameter 2 inches Type of Sample/ Coring Device MACRO CORE

Length and Diameter of Coring Device 4 FOOT x 2 INCHES Sampling Interval CONT feet

Land-Surface Elev. 99 feet [x] Surveyed [ ] Estimated Datum ON-SITE

Drilling Fluid Used — Drilling Method Geoprobe

Drilling Contractor ZEBRA ENVIRONMENTAL Driller Brent Helper Rock

Prepared By Scott Marshall Hammer Weight NA Hammer Drop NA ins.

Sample/Core Depth (feet below land surface) From	To	Core Recovery (feet)	Time/Hydraulic Pressure or Blows per 6 Inches	Sample/Core Description DTW 1'
0.0	4.0	2.9		0.0 - 0.7 Sand (m) brown ϕ ppm 0.7 - 2.9 Sand (m-c) black-gray slight odor 20ppm
4.0	8.0	4.0		0.0 - 1.0 Sand (c-m) black, odor 15-20 ppm 1.0 - 3.0 Sand (m) grading to sand (f) gray odor (m) 5-10 ppm
3.0	4.0			3.0 - 4.0 Clay/Peat Red brown methane odor
				SB 2' SB 8'

LAWGIBB GROUP

Sample/Core Log

SITE NAME
SITE LOCATION

Boring/Well SB-6 Project/No. 22000-0-0026-300 Page 1 of 1

Site Location Former Cibro Pet. Facility Island Park, NY

Drilling Started 12/8/00 Drilling Completed 12/8/00

Total Depth Drilled 8 Feet Hole Diameter 2 inches Type of Sample/ Coring Device MACRO CORE

Length and Diameter of Coring Device 4 FOOT x 2 INCHES Sampling Interval CONT feet

Land-Surface Elev. 98.6 feet ☒ Surveyed ☐ Estimated Datum ON-SITE

Drilling Fluid Used — Drilling Method Geoprobe

Drilling Contractor ZEBRA ENVIRONMENTAL Driller Brent Helper Rocky

Prepared By SCOTT MARSHALL Hammer Weight NA Hammer Drop NA ins.

DTW 10'6gs

Sample/Core Depth (feet below land surface) From	To	Core Recovery (feet)	Time/Hydraulic Pressure or Blows per 6 Inches	Sample/Core Description
0.0	4.0	4.0		0.0-0.6 sand (m) brown 0 ppm
				0.6-1.2 Sand (m-f) brown 5 ppm
				1.2-4.0 Sand (m-f) black, slight odor 10-20 ppm
4.0	8.0	3.0		0.0-0.8 SAA ~~200~~ 20 ppm
				0.8-1.4 Sand (F) grey sl. odor 10 ppm
				1.4-3.0 Clay/Peat Red brown
				6b 2'
				6c 7'

LAWGIBB GROUP

Sample/Core Log

SITE NAME
SITE LOCATION

Boring/Well SB-7 Project/No. 22000-0-0026-300 Page 1 of 1

Site Location Former Cibro Pet. Facility Island Park, NY

Drilling Started 12/8/00 Drilling Completed 12/8/00

Total Depth Drilled 12 Feet Hole Diameter 2 inches Type of Sample/ Coring Device MACRO CORE

Length and Diameter of Coring Device 4 FOOT x 2 INCHES Sampling Interval CONT feet

Land-Surface Elev. 97.3 feet ☒ Surveyed ☐ Estimated Datum ON-SITE

Drilling Fluid Used — Drilling Method Geoprobe

Drilling Contractor ZEBRA ENVIRONMENTAL Driller Brent Helper Rocky

Prepared By Scott Marshall Hammer Weight NA Hammer Drop NA ins.

Sample/Core Depth (feet below land surface) From	To	Core Recovery (feet)	Time/Hydraulic Pressure or Blows per 6 Inches	Sample/Core Description
				DTW 0.5
0.0	4.0	2.1		0.0 - 0.5 Sand (m) brown ϕ ppm
				0.5 - 2.1 Sand (m) black-gray 10ppm
4.0	8.0	3.0		0.0 - 1.8 SAA 10 ppm
				1.8 - 2.8 Sand (c) gravelly to Sand (f) 3ppm
				2.8 - 3.0 clay / Peat Red brown
8.0	12.0	2.0		0.0 - 2.0 clay / Peat Red brown methane odor
				7b 1'
				7c 9'

LAWGIBB GROUP

Sample/Core Log

SITE NAME
SITE LOCATION

Boring/Well SB-8 Project/No. 22000-0-0026-300 Page 1 of 1

Site Location Former Cibro Pet. Facility Island PARK, NY

Drilling Started 12/8/00 Drilling Completed 12/8/00

Total Depth Drilled 8 Feet Hole Diameter 2 inches Type of Sample/ Coring Device MACRO CORE

Length and Diameter of Coring Device 4 FOOT x 2 INCHES Sampling Interval CONT feet

Land-Surface Elev. 97.5 feet ☒ Surveyed ☐ Estimated Datum ON-SITE

Drilling Fluid Used — Drilling Method Geoprobe

Drilling Contractor ZEBRA ENVIRONMENTAL Driller Brent Helper Rocky

Prepared By SCOTT MARSHALL Hammer Weight NA Hammer Drop NA ins.

Sample/Core Depth (feet below land surface) From	To	Core Recovery (feet)	Time/Hydraulic Pressure or Blows per 6 Inches	Sample/Core Description DTW 1'6 SS
0.0	4.0	2.7		0.0-0.9 Sand (m) brown
				0.9-1.8 Sand (m) black, shn, odor ~~grades~~ 20-80 ppm
				1.8-2.7 Sand (m-f) grey 40-60 ppm
4.0	8.0	3.0		0.0-1.2 SAA 30 ppm
				1.2-3.0 Clay (Peat Layer) Red brown mottled odor
				SB 1.5'
				SC 7'

Samplelg.xls
4/6/99

LAWGIBB GROUP

Sample/Core Log

SITE NAME
SITE LOCATION

Boring/Well SB-9 Project/No. 22000-0-0026-300 Page 1 of 1

Site Location Former Cibro Pet. Facility Island PARK, NY Drilling Started 12/8/00 Drilling Completed 12/8/00

Total Depth Drilled 8 Feet Hole Diameter 2 inches Type of Sample/ Coring Device MACRO CORE

Length and Diameter of Coring Device 4 FOOT x 2 INCHES Sampling Interval CONT feet

Land-Surface Elev. 47.1 feet ☒ Surveyed ☐ Estimated Datum ON-SITE

Drilling Fluid Used — Drilling Method Geoprobe

Drilling Contractor ZEBRA ENVIRONMENTAL Driller Brent Helper Rocky

Prepared By SCOTT Horsball Hammer Weight NA Hammer Drop NA ins.

Sample/Core Depth (feet below land surface) From	To	Core Recovery (feet)	Time/Hydraulic Pressure or Blows per 6 Inches	Sample/Core Description
0.0	4.0	1.7		0.0 - 0.5 Sand (m) brown 0ppm
				0.5 - 1.7 Sand (f-m) black petroleum odor slight 10-20ppm
4.0	8.0	4.0		0.0 - 1.9 Sand (c-m) black, petroleum 20ppm
				1.9 - 2.4 Sand (m) grey 15ppm
				2.4 - 2.7 SILTY SAND grey 10ppm
				2.7 - 3.0 clay, grey 1ppm
				3.0 - 3.2 SILTY SAND red/grey 0ppm
				3.2 - 4.0 clay/peat Red brown methane odor
				SB 1'
				QC 8'

LAWGIBB GROUP

Sample/Core Log

SITE NAME
SITE LOCATION

Boring/Well SB-10 Project/No. 22000-0-0026-300 Page 1 of 1

Site Location Former Cibro Pet. Facility Island Park, NY

Drilling Started 12/8/00 Drilling Completed 12/8/00

Total Depth Drilled 8 Feet Hole Diameter 2 inches Type of Sample/ Coring Device MACRO CORE

Length and Diameter of Coring Device 4 FOOT x 2 INCHES Sampling Interval CONT feet

Land-Surface Elev. 97.6 feet ☒ Surveyed ☐ Estimated Datum ON-SITE

Drilling Fluid Used — Drilling Method Geoprobe

Drilling Contractor ZEBRA ENVIRONMENTAL Driller Brent Helper Rocky

Prepared By SCOTT MARSHALL Hammer Weight NA Hammer Drop NA ins.

Sample/Core Depth (feet below land surface) From	To	Core Recovery (feet)	Time/Hydraulic Pressure or Blows per 6 Inches	Sample/Core Description DTW 1' bgs
0.0	4.0	2.2	—	0.0-0.5 Sand(m) brown
				0.5-2.2 Sand(m-c) black 30-35ppm odor/sheen
4.0	8.0	3.0	—	0.0-1.0 SAA 30 ppm
				1.0-3.0 clay/Peat layer methane odor
				106 2'
				106 7'

LAWGIBB GROUP

Sample/Core Log

SITE NAME
SITE LOCATION

Boring/Well SB-11 Project/No. 22000-0-0026-300 Page 1 of 1

Site Location Former Cibro Pet. Facility Island PARK, NY Drilling Started 12/8/00 Drilling Completed 12/8/00

Total Depth Drilled 8 Feet Hole Diameter 2 inches Type of Sample/ Coring Device MACRO CORE

Length and Diameter of Coring Device 4 FOOT x 2 INCHES Sampling Interval CONT feet

Land-Surface Elev. 98 feet ☒ Surveyed ☐ Estimated Datum ON-SITE

Drilling Fluid Used — Drilling Method Geoprobe

Drilling Contractor ZEBRA ENVIRONMENTAL Driller Brent Helper Rocky

Prepared By SCOTT MARSHALL Hammer Weight NA Hammer Drop NA ins.

Sample/Core Depth (feet below land surface) From	To	Core Recovery (feet)	Time/Hydraulic Pressure or Blows per 6 Inches	Sample/Core Description DTW 1.0'6 12
0.0	4.0	2.5	—	0.0-1.0 sand (m) brown
				1.0-2.5 sand (m) black staining, odor 30-40 ppm
4.0	8.0	4.0	—	0.0-1.5 SAA 30-40 ppm
				1.5-2.8 Sand (m-c) gravelly to sand (f) grey mod. odor 30 ppm
				2.8-4.0 Clay/Peat Red brown methane odor
				1116 21
				1120 81

LAWGIBB GROUP

Sample/Core Log

SITE NAME
SITE LOCATION

Boring/Well SB-12 Project/No. 22000-0-0026-300 Page 1 of 1

Site Location Former Ciba Pet. Facility Island Park, NY

Drilling Started 12/1/00 Drilling Completed 12/6/00

Total Depth Drilled 8 Feet Hole Diameter 2 inches Type of Sample/ Coring Device MACRO CORE

Length and Diameter of Coring Device 4 FOOT x 2 INCHES Sampling Interval CONT feet

Land-Surface Elev. 99.9 feet ☒ Surveyed ☐ Estimated Datum ON-SITE

Drilling Fluid Used — Drilling Method Geoprobe

Drilling Contractor ZEBRA ENVIRONMENTAL Driller Brent Helper Charles

Prepared By SCOTT HARSHALL Hammer Weight NA Hammer Drop NA ins.

Sample/Core Depth (feet below land surface) From	To	Core Recovery (feet)	Time/Hydraulic Pressure or Blows per 6 Inches	Sample/Core Description
0.0	4.0	2.6	—	PTW 1'6 gs 0.0-0.6 Sand & Gravel mix 10 ppm
				0.6-1.6 Sand (m-c), stained black with petro odor 30 ppm
				1.6-2.6 Sand (m-f) 12 ppm sl. petro odor
4.0	8.0	2.8	—	0.0-2.0 Sand (m-f) odor petro grey 5-15 ppm
				2.0-2.8 Clay/Peat Road bed
				12b 21
				12c 21

LAWGIBB GROUP

Sample/Core Log

SITE NAME
SITE LOCATION

Boring/Well SB-13 Project/No. 22000-0-0026-300 Page 1 of 1

Site Location Former Cibro Pet. Facility Island Park, NY

Drilling Started 12/9/00 Drilling Completed 12/8/00

Total Depth Drilled 8 Feet Hole Diameter 2 inches Type of Sample/ Coring Device MACRO CORE

Length and Diameter of Coring Device 4 FOOT x 2 INCHES

Sampling Interval CONT feet

Land-Surface Elev. 98.2 feet ☒ Surveyed ☐ Estimated Datum ON-SITE

Drilling Fluid Used

Drilling Method Geoprobe

Drilling Contractor ZEBRA ENVIRONMENTAL Driller Brent Helper Rocky

Prepared By SCOTT MARSHALL Hammer Weight NA Hammer Drop NA ins.

Sample/Core Depth (feet below land surface) From	To	Core Recovery (feet)	Time/Hydraulic Pressure or Blows per 6 inches	Sample/Core Description
0.0	4.0	2.6	—	DTW 1' 0.0-0.5 Sand (m) brown 0 ppm 0.5-1.9 Sand (m-c) black petroleum 30 ppm 1.9-2.6 Sand (m-c) grey black silt/clay 20 ppm
4.0	8.0	4.0	—	0.0-2.0 SAA 20 ppm 2.0-7.0 Clay/Silt Red brown mottled 136 1.5' 136 7'

Samplelg xls
4/6/99

LAWGIBB GROUP

Sample/Core Log

SITE NAME
SITE LOCATION

Boring/Well SB-14 Project/No. 22000-0-0026-300 Page 1 of 1

Site Location Former Cibro Pet. Facility Island PARK, NY

Drilling Started 12/4/00 Drilling Completed 12/4/00

Total Depth Drilled 8 Feet Hole Diameter 2 inches Type of Sample/ Coring Device MACRO CORE

Length and Diameter of Coring Device 4 FOOT x 2 INCHES Sampling Interval CONT feet

Land-Surface Elev. 99.8 feet ☒ Surveyed ☐ Estimated Datum ON-SITE

Drilling Fluid Used — Drilling Method Geoprobe

Drilling Contractor ZEBRA ENVIRONMENTAL Driller Brent Helper Charles

Prepared By SCOTT HORSHALL Hammer Weight NA Hammer Drop NA ins.

Sample/Core Depth (feet below land surface) From	To	Core Recovery (feet)	Time/Hydraulic Pressure or Blows per 6 Inches	Sample/Core Description
0.0	4.0	3.3	—	0.0 - 0.6 Sand, m., dark brown 0 - 0.6 ppm 0.6 - 1.6 Sand, m-f, little gravel, fine brown gray 0 - 1 ppm 1.6 - 3.3 Sand (m-f), some gravel, f brown - wet/SAT DTW ~ 3.5'bgs
4.0	8.0	4.0	—	0.0 - 2.2 Sand, m., some gravel, f. brown 23ppm MAX 2.2 - 2.4 - Sand (m) brown 0.6 ppm 2.4 - 4.0 Peat, Red brown rich in organic root material PID 0-1 ppm

14a 1.5'
14b 4.0'
14c 7.0'

LAWGIBB GROUP

Sample/Core Log

SITE NAME
SITE LOCATION

Boring/Well SB-15 Project/No. 22000-0-0026-300 Page 1 of 1

Site Location Former Cibro Pet. Facility Island Park, NY

Drilling Started 12/8/00 Drilling Completed 12/8/00

Total Depth Drilled 8 Feet Hole Diameter 2 inches Type of Sample/ Coring Device MACRO CORE

Length and Diameter of Coring Device 4 FOOT x 2 INCHES Sampling Interval CONT feet

Land-Surface Elev. 995 feet ☒ Surveyed ☐ Estimated Datum ON-SITE

Drilling Fluid Used — Drilling Method Geoprobe

Drilling Contractor ZEBRA ENVIRONMENTAL Driller Brent Helper Ricky

Prepared By Scott Marshall Hammer Weight NA Hammer Drop NA ins.

Sample/Core Depth (feet below land surface) From	To	Core Recovery (feet)	Time/Hydraulic Pressure or Blows per 6 Inches	Sample/Core Description
				DTW 1.0 bgs
0.0	4.0	2.7	—	0.0-0.9 sand (m-c) brown
				0.9-1.6 Sand (m) black-gray petr odor / STAINING
				1.6-2.7 Sand (m-c) Gravel-gray petr odor, STAINING, 50 PPM
4.0	8.0	4.0		0.0-2.5 Sand (m-c) grading to Sand (f) gray 10-20 PPM
				2.5-4.0 Clay / Peat Rich Brown methane odor
				156 21
				156 21

LAWGIBB GROUP

SITE NAME
SITE LOCATION

Sample/Core Log

Boring/Well SB-16 Project/No. 22000-0-0026-300 Page 1 of 1

Site Location Former Cibro Pet. Facility Island Park, NY

Drilling Started 12/4/00 Drilling Completed 12/4/00

Total Depth Drilled 8 Feet Hole Diameter 2 inches Type of Sample/ Coring Device MACRO CORE

Length and Diameter of Coring Device 4 FOOT x 2 INCHES Sampling Interval CONT feet

Land-Surface Elev. 100 feet ☒ Surveyed ☐ Estimated Datum ON-SITE

Drilling Fluid Used — Drilling Method Geoprobe

Drilling Contractor ZEBRA ENVIRONMENTAL Driller Brent Helper Charles

Prepared By SCOTT HORSHALL Hammer Weight NA Hammer Drop NA ins.

Sample/Core Depth (feet below land surface) From	To	Core Recovery (feet)	Time/Hydraulic Pressure or Blows per 6 Inches	Sample/Core Description
0.0	4.0	3.5	—	0.0-0.3 SILTY SAND 0.0-0.5 ppm 0.3-2.2 sand, f., some gravel, f. with silt, brown 44 ppm MAX 2.2-3.5 Sand (m-f) with gravel, fine. petroleum black staining sheen 50-60 ppm DTW ~ 3.5' bgs
4.0	8.0	4.0	—	0.0-2.2 Sand (m-f), some gravel f with silt, petroleum, sheen black staining 30 ppm 2.2-4.0 Peat, Red brown rich with organic strong methane odor 0-5 ppm

16a 2'
16b 4'
16c 7'

LAWGIBB GROUP

Sample/Core Log

SITE NAME
SITE LOCATION

Boring/Well SB-18 Project/No. 22000-0-0026-300 Page 1 of 1

Site Location Former Cibco Pet. Facility Island Park, NY

Drilling Started 12/4/00 Drilling Completed 12/4/00

Total Depth Drilled 16 Feet Hole Diameter 2 inches Type of Sample/ Coring Device MACRO CORE

Length and Diameter of Coring Device 4 FOOT x 2 INCHES Sampling Interval CONT feet

Land-Surface Elev. 98.9 feet ☒ Surveyed ☐ Estimated Datum ON-SITE

Drilling Fluid Used — Drilling Method Geoprobe

Drilling Contractor ZEBRA ENVIRONMENTAL Driller Brent Helper Charles

Prepared By SCOTT MARSHALL Hammer Weight NA Hammer Drop NA ins.

Sample/Core Depth (feet below land surface) From	To	Core Recovery (feet)	Time/Hydraulic Pressure or Blows per 6 Inches	Sample/Core Description
2.0	4.0	2.7	—	0.0 - 0.5 0-5 ppm Sand (m-c) with gravel (f-m) TAN-brown 0.5 - 2.7 15-30 ppm Sand (m-c) with gravel, f. black staining, petro odor, sheen DTW 1' on bail
4.0	8.0	1.8	—	0.0 - 0.3 Sand, f. gray 15 ppm 0.3 - 1.8 Sand (m-f) and gravel, f black STAINING, petro odor, sheen 15-30 ppm
8.0	12.0	2.5	—	0.0 - 2.5 PID range 15-30 ppm sand (m-c) and gravel f. petro odor mild
12.0	16.0	3.5		0.0 - 3.5 0-5 ppm Clay/MARL DARK Gray STRONG methane odor.

18b 1.5'
18c 13'

LAWGIBB GROUP

Sample/Core Log

SITE NAME
SITE LOCATION

Boring/Well SB-19 Project/No. 22000-0-0026-300 Page 1 of 1

Site Location Former Cibro Pet. Facility Island Park, NY

Drilling Started 12/4/00 Drilling Completed 12/4/00

Total Depth Drilled 12 Feet Hole Diameter 2 inches Type of Sample/ Coring Device MACRO CORE

Length and Diameter of Coring Device 4 FOOT x 2 INCHES Sampling Interval CONT feet

Land-Surface Elev. 100 feet ☒ Surveyed ☐ Estimated Datum ON-SITE

Drilling Fluid Used — Drilling Method Geoprobe

Drilling Contractor ZEBRA ENVIRONMENTAL Driller Brent Helper Charles

Prepared By SCOTT Horshall Hammer Weight NA Hammer Drop NA ins.

Sample/Core Depth (feet below land surface) From	To	Core Recovery (feet)	Time/Hydraulic Pressure or Blows per 6 inches	Sample/Core Description
0.0	4.0	3.2	—	0.0-1.3 PID 0-1.7 ppm Sand, f, little med; some silt little organic root brown 1.3-3.2 PID 64 ppm MAX Sand (m-c) with gravel, fine STAINED black, odor, sheen DTW ~3.5'
4.0	8.0	4.0		0.0-2.1 PID 41 ppm MAX Sand (m-c) little gravel, fine. STAINED black, odor, sheen. 2.1-2.3 52 ppm MAX Sand (f-m) tan-gray 2.3-4.0 10 ppm Sand (c-m) with gravel, f.
8.0	12.0	4.0	—	0.0-2.5 2-6 ppm Sand (f-m) grading to coarse sl. odor — FAINT, gray-red 2.5-4.0 Peat, Red brown STRONG methane odor

19a - 1'
19b 3'
19c 11'

LAWGIBB GROUP

Sample/Core Log

SITE NAME
SITE LOCATION

Boring/Well SB-20 Project/No. 22000-0-0026-300 Page 1 of 1

Site Location Former Cibro Pet. Facility Island Park, NY

Drilling Started 12/4/00 Drilling Completed 12/4/00

Total Depth Drilled 16 Feet Hole Diameter 2 inches Type of Sample/ Coring Device MACRO CORE

Length and Diameter of Coring Device 4 FOOT x 2 INCHES Sampling Interval CONT feet

Land-Surface Elev. 99.1 feet ☒ Surveyed ☐ Estimated Datum ON-SITE

Drilling Fluid Used — Drilling Method Geoprobe

Drilling Contractor ZEBRA ENVIRONMENTAL Driller Brent Helper Charles

Prepared By SCOTT HARSHALL Hammer Weight NA Hammer Drop NA ins.

Sample/Core Depth (feet below land surface) From	To	Core Recovery (feet)	Time/Hydraulic Pressure or Blows per 6 Inches	Sample/Core Description
0.0	4.0	3.0	—	0.0 - 0.8 0 - 5 ppm Sand (m-c), some gravel, fine, brown 0.8 - 3.0 22 ppm Sand (m-c), stained black, odor DTW 1.0' bgs
4.0	8.0	2.3	—	0.0 - 1.6 30 ppm sand (m-c), STAINED black, petr odor, sheen 1.6 - 2.3 14 ppm MAX Sand (f-m) petro med - sl. odor GRAY-TAN
8.0	12.0	0.5	—	Little Recovery 4 - 5 ppm Sand (f-m) GRAY TAN FAINT - petro odor
12.0	16.0	3	—	0.0 - 3.0 Clay, dark brown (MARL) shells STRONG methane odor PID 0-6 ppm

206 2'
20C 13'

LAWGIBB GROUP

Sample/Core Log

SITE NAME
SITE LOCATION

Boring/Well SB-21 Project/No. 22000-0-0026-300 Page 1 of 1

Site Location Farmers Cibro Pet. Facility Island Park, NY

Drilling Started 12/7/00 Drilling Completed 12/7/00

Total Depth Drilled 8 Feet Hole Diameter 2 inches Type of Sample/ Coring Device MACRO CORE

Length and Diameter of Coring Device 4 FOOT x 2 INCHES Sampling Interval CONT feet

Land-Surface Elev. 49.4 feet ☐ Surveyed ☐ Estimated Datum

Drilling Fluid Used — Drilling Method Geoprobe

Drilling Contractor ZEBRA ENVIRONMENTAL Driller Brent Helper Rock

Prepared By Scott Marshall Hammer Weight NA Hammer Drop NA ins.

Sample/Core Depth (feet below land surface) From	To	Core Recovery (feet)	Time/Hydraulic Pressure or Blows per 6 Inches	Sample/Core Description
0.0	4.0	4.0		PTW 4' 0.0-4.0 Sand (m) brown-gray scaling to black grey
4.0	8.0	4.0		0.0-2.0 SAA 2.0-4.0 marl/clay Gray 21a 2' 21b 4.5 21c 7
				NO PID READING LAST Boring of day battery Low

LAWGIBB GROUP

Sample/Core Log

SITE NAME
SITE LOCATION

Boring/Well SB-22 Project/No. 22000-0-0026-300 Page 1 of 1

Site Location Former Ciba Pet. Facility Island Park, NY

Drilling Started 12/2/00 Drilling Completed 12/7/00

Total Depth Drilled 8 Feet Hole Diameter 2 inches Type of Sample/ Coring Device MACRO CORE

Length and Diameter of Coring Device 4 FOOT x 2 INCHES Sampling Interval CONT feet

Land-Surface Elev. 99.5 feet ☒ Surveyed ☐ Estimated Datum ON-SITE

Drilling Fluid Used ____ Drilling Method Geoprobe

Drilling Contractor ZEBRA ENVIRONMENTAL Driller Brent Helper ____

Prepared By SCOTT HARSHALL Hammer Weight NA Hammer Drop NA ins.

Sample/Core Depth (feet below land surface) From	To	Core Recovery (feet)	Time/Hydraulic Pressure or Blows per 6 Inches	Sample/Core Description PTW 4' bgs
0.0	4.0	3.0		0.0-1.1 Sand(m) brown Øppm
				1.1-2.2 Sand(m) brown-gray 1-2ppm
				2.2-2.7 Sand(m) Gray Sl. odor 6ppm
				2.7-3.0 Sand(m) black odor brown 80 ppm
4.0	8.0	4.0		0.0-1.5 SAA 24ppm
				1.5-4.0 Marl/clay Gray
				22a 2.0
				22b 4.5
				22c 7.0

LAWGIBB GROUP

Sample/Core Log

SITE NAME
SITE LOCATION

Boring/Well SB-23 Project/No. 22000-0-0026-300 Page 1 of 1

Site Location Former Cibro Pet. Facility Island Park, NY

Drilling Started 12/7/00 Drilling Completed 12/7/00

Total Depth Drilled 12 Feet Hole Diameter 2 inches Type of Sample/ Coring Device MACRO CORE

Length and Diameter of Coring Device 4 FOOT x 2 INCHES

Land-Surface Elev. 99.7 feet [X] Surveyed [ ] Estimated Datum ON-SITE Sampling Interval CONT feet

Drilling Fluid Used ——— Drilling Method Geoprobe

Drilling Contractor ZEBRA ENVIRONMENTAL Driller Brent Helper Rocky

Prepared By Scott Horsnall Hammer Weight NA Hammer Drop NA ins.

Sample/Core Depth (feet below land surface) From	To	Core Recovery (feet)	Time/Hydraulic Pressure or Blows per 6 Inches	Sample/Core Description
0.0	4.0	2.6	—	STANDING water 0.0 - 0.9 Sandy clay brown 20 ppm 0.9 - 2.1 Sand (m-f) black staining petro odor 40 ppm 2.1 - 2.6 Sand (m-f) grey petro odor 20 ppm
4.0	8.0	2.8	—	0.0 - 1.2 Sand (m-c) black/petro odor 50-60 ppm 1.2 - 2.8 Sand (c) petro odor black-gray 15-20 ppm
8	12	2.5	—	Clay/Peat Reddish brown 23b 4' 23c 9'

Samplelg xls
4/6/00

LAWGIBB GROUP

Sample/Core Log

SITE NAME
SITE LOCATION

Boring/Well SB-24 Project/No. 22000-0-0026-300 Page 1 of 1

Site Location Former Cibro Pet. Facility Island Park, NY

Drilling Started 12/7/00 Drilling Completed 12/7/00

Total Depth Drilled 8 Feet Hole Diameter 2 inches Type of Sample/ Coring Device MACRO CORE

Length and Diameter of Coring Device 4 FOOT x 2 INCHES Sampling Interval CONT feet

Land-Surface Elev. 100 feet ☒ Surveyed ☐ Estimated Datum ~~SURVEY~~ ON-SITE

Drilling Fluid Used Drilling Method Geoprobe

Drilling Contractor ZEBRA ENVIRONMENTAL Driller Brent Helper Rocky

Prepared By Scott Marshall Hammer Weight NA Hammer Drop NA ins.

DTW 3' 6" GS

Sample/Core Depth (feet below land surface) From	To	Core Recovery (feet)	Time/Hydraulic Pressure or Blows per 6 Inches	Sample/Core Description
0.0	4.0	3.2	—	0.0 – 1.6 Sand (m) brown 0 ppm
				1.6 – 2.4 Sand (m) black-gry petro odor 20 ppm
				2.4 – 3.2 Sand (m) black / petro odor
4.0	8.0	4.0	—	0.0 – 1.6 Sand (m-c) black, petro odor 30-40 ppm
				1.6 – 2.4 Sand (m) gray 15 ppm
				2.4 – 4.0 Clay / Peat Red brown methane odor
				24a 2'
				24b 4'
				24c 8'

LAWGIBB GROUP

Sample/Core Log

SITE NAME
SITE LOCATION

Boring/Well SB-25 Project/No. 22000-0-0026-300 Page 1 of 1

Site Location Former Cibro Pet. Facility Island Park, NY

Drilling Started 12/8/00 Drilling Completed 12/8/00

Total Depth Drilled 12 Feet Hole Diameter 2 inches Type of Sample/ Coring Device MACRO CORE

Length and Diameter of Coring Device 4 FOOT x 2 INCHES Sampling Interval CONT feet

Land-Surface Elev. 100.7 feet ☒ Surveyed ☐ Estimated Datum ~~SURVEY~~ ON-SITE

Drilling Fluid Used — Drilling Method Geoprobe

Drilling Contractor ZEBRA ENVIRONMENTAL Driller Brent Helper Charles

Prepared By SCOTT HARSHALL Hammer Weight NA Hammer Drop NA ins.

DTW 3.5'

Sample/Core Depth (feet below land surface) From	To	Core Recovery (feet)	Time/Hydraulic Pressure or Blows per 6 Inches	Sample/Core Description
0.0	4.0	2.3		0.0-0.9 Sand(m) brown 7ppm
				0.9-1.4 Sand(m) black, stained 15ppm
				1.4-1.9 Sand(m) gray 30 ppm
				1.9-2.3 Sand(m) little clay gray
4.0	8.0	4.0		0.0-2.2 Sand(m-f) staining, sheen, petro odor, black-gray 60-80ppm
				2.2-4.0 Sand(m-c) gray, odor 30ppm
8	12			Clay/Peat Dark brown strong methane odor 4ppm
				25a 2
				25b 4
				25c 9

LAWGIBB GROUP

Sample/Core Log

SITE NAME
SITE LOCATION

Boring/Well SB-26 Project/No. 22000-0-0026-300 Page 1 of 1

Site Location Former Cibro Pet. Facility Island Park, NY

Drilling Started 12/100 Drilling Completed 12/100

Total Depth Drilled 8 Feet Hole Diameter 2 inches Type of Sample/ Coring Device MACRO CORE

Length and Diameter of Coring Device 4 FOOT x 2 INCHES

Sampling Interval CONT feet

Land-Surface Elev. 99.6 feet ☒ Surveyed ☐ Estimated Datum ON-SITE

Drilling Fluid Used —

Drilling Method Geoprobe

Drilling Contractor ZEBRA ENVIRONMENTAL Driller Brent Helper Rocky

Prepared By SCOTT MARSHALL Hammer Weight NA Hammer Drop NA ins.

Sample/Core Depth (feet below land surface) From	To	Core Recovery (feet)	Time/Hydraulic Pressure or Blows per 6 Inches	Sample/Core Description
				OTV 3' 6g.s
2.0	4.0	2.6	—	0.0-1.6 Sand (c) brown 2-3ppm
				1.6-2.6 Sand (c) gray gravelly to sand (f-m) 6-7ppm
4.0	8.0	4.0	—	0.0-0.9 SAA shen/lacks 10ppm
				0.9-2.5 Sand (c) grey 15ppm
				2.5-3.1 Clay Gray 1ppm
				3.1-4.0 clay/RED brown Brick 0ppm
				26g 6.5
				26b 4
				26c 8

LAWGIBB GROUP

Sample/Core Log

SITE NAME
SITE LOCATION

Boring/Well SB-27 Project/No. 22000-0-0026-300 Page 1 of 1

Site Location Former Cibro Pet. Facility Island Park, NY Drilling Started 12/7/00 Drilling Completed 12/7/00

Total Depth Drilled 8 Feet Hole Diameter 2 inches Type of Sample/ Coring Device MACRO CORE

Length and Diameter of Coring Device 4 FOOT x 2 INCHES Sampling Interval CONT feet

Land-Surface Elev. 99.7 feet ☒ Surveyed ☐ Estimated Datum ~~Survey~~ ON-SITE

Drilling Fluid Used — Drilling Method Geoprobe

Drilling Contractor ZEBRA ENVIRONMENTAL Driller Brent Helper Rocky

Prepared By Scott Marshall Hammer Weight NA Hammer Drop NA ins.

DTW 3'

Sample/Core Depth (feet below land surface) From	To	Core Recovery (feet)	Time/Hydraulic Pressure or Blows per 6 Inches	Sample/Core Description
0.0	4.0	2.9	-	0.0 - 1.1 Sand (m) with clay, brown 4 ppm
				1.1 - 2.9 Sand (m-c) gray
				f. pid w 3-4 ppm
4.0	8.0	4		0.0 - 3.0 Sand (m-c)
				3.0 - 4.0 SILTY SAND + Gray Clay
				PID 4-1 ppm
				27a 1.5
				27b 3.5
				27c 8

LAWGIBB GROUP

Sample/Core Log

SITE NAME
SITE LOCATION

Boring/Well SB-28 Project/No. 22000-0-0026-300 Page 1 of 1

Site Location Farmers Cibro Pet. Facility Island Park, NY

Drilling Started 12/5/00 Drilling Completed 12/5/00

Total Depth Drilled 12 Feet Hole Diameter 2 inches Type of Sample/ Coring Device MACRO CORE

Length and Diameter of Coring Device 4 FOOT x 2 INCHES Sampling Interval CONT feet

Land-Surface Elev. 98.7 feet ☒ Surveyed ☐ Estimated Datum ON-SITE

Drilling Fluid Used — Drilling Method Geoprobe

Drilling Contractor ZEBRA ENVIRONMENTAL Driller Brent Helper Charles

Prepared By SCOTT HARSHALL Hammer Weight NA Hammer Drop NA ins.

Sample/Core Depth (feet below land surface) From	To	Core Recovery (feet)	Time/Hydraulic Pressure or Blows per 6 Inches	Sample/Core Description
0.0	4.0	2.6	—	0.0-0.7 0 ppm
				Gravel (f) with clay brown
				0.7-1.2 5 ppm
				Silty clay brown
				1.2-1.7 Sand (m-c) brown-black
			DTW	some staining m. petro odor
			2'	15 ppm
				1.7-2.6 Sand (m-c) little silt & Gravel (f)
				black-grey, odor, staining
				PID 23 ppm
4.0	8.0	3.2	—	0.0-1.6 PID 0 - 0.2 ppm
				Sand (c-m) grey red
				1.6-3.2 Sand (f) fining down
				to sand silt with thin lenses of clay
				PID 0 ppm
8.0	12.0	2.6	—	0.0-0.5 Sand f with Peat
				0.5-1.6 Peat, red brown PID
				1.6-2.6 Marl/clay - med-grey 0 ppm
				strong methane odors

28a 1.0'
28b 2.5
28c 9'

LAWGIBB GROUP

Sample/Core Log

SITE NAME
SITE LOCATION

ing/Well SB-29 Project/No. 22000-0-0026-300 Page 1 of 1

Site Location Former Cibro Pet. Facility Island Park, NY

Drilling Started 12/6/00 Drilling Completed 12/6/00

Total Depth Drilled 12.0 Feet Hole Diameter 2 inches Type of Sample/ Coring Device MACRO CORE

Length and Diameter of Coring Device 4 FOOT x 2 INCHES Sampling Interval CONT feet

Land-Surface Elev. 44.75 feet ☒ Surveyed ☐ Estimated Datum ON-SITE

Drilling Fluid Used — Drilling Method Geoprobe

Drilling Contractor ZEBRA ENVIRONMENTAL Driller Brent Helper charlie

Prepared By SCOTT HARSHALL Hammer Weight NA Hammer Drop NA ins.

PID NOT WORKING!

Sample/Core Depth (feet below land surface) From	To	Core Recovery (feet)	Time/Hydraulic Pressure or Blows per 6 Inches	Sample/Core Description
0.0	4.0	2.5	—	DTW 3.5-4.0 'bgs 0.0-0.6 Sand (m-c) with gravel (f) brown 0.6-2.5 Sand (m) and gravel (f) dark staining / odor
4.0	8.0	3.7	—	0.0-0.9 Sand (m) black 0.9-3.1 Sand (f-m) grey petrol odor
8.0	12.0	3.0		0.0-3.0 Clay / Peat Red brown 29a 2' 29b 4' 29c 9'

LAWGIBB GROUP

Sample/Core Log

SITE NAME
SITE LOCATION

Boring/Well SB-30 Project/No. 22000-0-0026-300 Page 1 of 1

Site Location Former Cibro Pet. Facility Island Park, NY

Drilling Started 12/4/00 Drilling Completed 12/4/00

Total Depth Drilled 16 Feet Hole Diameter 2 inches Type of Sample/ Coring Device MACRO CORE

Length and Diameter of Coring Device 4 FOOT x 2 INCHES Sampling Interval CONT feet

Land-Surface Elev. 00.5 feet ☒ Surveyed ☐ Estimated Datum ON-SITE

Drilling Fluid Used _____ Drilling Method Geoprobe

Drilling Contractor ZEBRA ENVIRONMENTAL Driller Brent Helper _____

Prepared By SCOTT Marshall Hammer Weight NA Hammer Drop NA ins.

Sample/Core Depth (feet below land surface) From	To	Core Recovery (feet)	Time/Hydraulic Pressure or Blows per 6 Inches	Sample/Core Description
0.0	4.0	2.1	—	surface water / 0.0 - less than 1'
				0.0-0.6 1 ppm
				Sand (m)
				~~0.6~~ 0.6 - 1.7 8-10 ppm
				sand (m-f) with fine gravel
				grey / odor sheen
				1.7 - 2.1 6 ppm
				Sand (m-c) black staining, odor, sheen
4.0	8.0	4	—	0.0 - 1.5 25 ppm
				Sand (m-c) black, odor, sheen
				1.5 - 2.0 2-4 ppm
				Sand (f) with silt/clay
				faint odor, grey
				2.0 - 4.0 Sand (f-m) with little silt
				grey-red faint odor
8.0	12.0	1.0		Sand (f-m) grey-red PID 2-3 ppm
12.0	16.0	3.0		MARL/Clay dark grey
				strong methane odors

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LAWGIBB GROUP

Sample/Core Log

SITE NAME
SITE LOCATION

ing/Well SB-31 Project/No. 22000-0-0026-300 Page 1 of 1

Site Location Former Cibro Pet. Facility Island Park, NY

Drilling Started 12/6/00 Drilling Completed 12/6/00

Total Depth Drilled 12.0 Feet Hole Diameter 2 inches Type of Sample/ Coring Device Macro Core

Length and Diameter of Coring Device 4 Foot x 2 Inches Sampling Interval Cont feet

Land-Surface Elev. 00.4 feet ☒ Surveyed ☐ Estimated Datum On-Site

Drilling Fluid Used — Drilling Method Geoprobe

Drilling Contractor Zebra Environmental Driller Brent Helper Charles

Prepared By Scott Marshall Hammer Weight NA Hammer Drop NA ins.

DTW 4.5' bgs

Sample/Core Depth (feet below land surface) From	To	Core Recovery (feet)	Time/Hydraulic Pressure or Blows per 6 Inches	Sample/Core Description
0.0	4.0	2.3	—	0.0-1.8 Sand (m) with gravel (f) brown 0-1 ppm
				1.8-2.3 Sand (m) and gravel (f) 50 ppm black staining + petro odor
4.0	8.0	2.9	—	0.0-0.9 Sand (m) with gravel (f) 30-40 ppm petro odor / staining black
				0.9-2.9 Sand (m-f) grey black petro odor 20 ppm
8.0	12.0	3.2	—	clay / Peat Red brown
				31a 2'
				31b 4.5'
				31c 9'

LAWGIBB GROUP

Sample/Core Log

SITE NAME
SITE LOCATION

Boring/Well SB-32 Project/No. 22000-0-0026-300 Page 1 of 1

Site Location Former Cibro Pet. Facility Island Park, NY

Drilling Started 12/4/00 Drilling Completed 12/4/00

Total Depth Drilled 12 Feet Hole Diameter 2 inches Type of Sample/ Coring Device MACRO CORE

Length and Diameter of Coring Device 4 FOOT x 2 INCHES Sampling Interval CONT feet

Land-Surface Elev. 99.9 feet ☒ Surveyed ☐ Estimated Datum ON-SITE

Drilling Fluid Used — Drilling Method Geoprobe

Drilling Contractor ZEBRA ENVIRONMENTAL Driller Brent Helper Charlie

Prepared By SCOTT MARSHALL Hammer Weight NA Hammer Drop NA ins.

Sample/Core Depth (feet below land surface) From	To	Core Recovery (feet)	Time/Hydraulic Pressure or Blows per 6 Inches	Sample/Core Description
				Water surface (less than 1'
0.0	4.0	2.5	—	0.0-0.6 0 ppm Sand (f-m) brown
				0.6-1.8 40-50 ppm
				Sand (f-m) black staining, petro odor sheen
				1.8-2.5 10-20 ppm
				Sand (f-m) odor, grey
4.0	8.0	2.9	—	0.0-1.4 PID 15 ppm
				Sand, f. little med, some silt petro odor sheen
				1.4-2.0 6 ppm
				Sand, fine grey with thin lenses of silty clay sl. petro odor
				2.0-2.6 7 ppm
				Sand (f) with silt sl. odor grey
8	12	4	—	0.0-2.8 2-4 ppm
				Sand (m-c) little silt and gravel f odor med. grey-red.

SB-32 1.5 2.8-4.0 Peat Red brown
32c 12 strong methane odor

LAWGIBB GROUP

Sample/Core Log

SITE NAME
SITE LOCATION

Boring/Well SB-33 Project/No. 22000-0-0026-300 Page 1 of 1

Site Location Former Cibro Pet. Facility Island Park, NY

Drilling Started 12/6/00 Drilling Completed 12/6/00

Total Depth Drilled 12 Feet Hole Diameter 2 inches Type of Sample/ Coring Device MACRO CORE

Length and Diameter of Coring Device 4 FOOT x 2 INCHES Sampling Interval CONT feet

Land-Surface Elev. 100.1 feet ☒ Surveyed ☐ Estimated Datum ON-SITE

Drilling Fluid Used — Drilling Method Geoprobe

Drilling Contractor ZEBRA ENVIRONMENTAL Driller Brent Helper charlie

Prepared By Scott Marshall Hammer Weight NA Hammer Drop NA ins.

Sample/Core Depth (feet below land surface) From	To	Core Recovery (feet)	Time/Hydraulic Pressure or Blows per 6 Inches	Sample/Core Description
0.0	4.0	3.1	—	DTW 4' bgs 0.0-1.0 Sand (f-m) brown 0 ppm 1.0-1.8 Sand (f-m) grey 0-1 ppm 1.8-2.6 Sand (c) with gravel (f) odor/sheen 15 ppm
4.0	8.0	3.1		0.0-0.9 Sand (c) with gravel (f) odor/sheen/ black staining 30-40 ppm 0.9-1.2 Clayey silt Red brn 10 ppm 1.2-3.1 Sand (m) grey 5-10 ppm
8.0	12.0			0.0-0.4 Silty sand and clay 5 ppm 0.4-2.4 Plat/clay 0 ppm methane odor 33a 2' 33b 4' 33c 9'

LAWGIBB GROUP

Sample/Core Log

SITE NAME
SITE LOCATION

Boring/Well SB-34 Project/No. 22000-0-0026-300 Page 1 of 1

Site Location Former Ciba Pet. Facility Island Park, NY

Drilling Started 12/6/00 Drilling Completed 12/6/00

Total Depth Drilled 12 Feet Hole Diameter 2 inches Type of Sample/ Coring Device MACRO CORE

Length and Diameter of Coring Device 4 FOOT x 2 INCHES Sampling Interval CONT feet

Land-Surface Elev. 100.6 feet ☒ Surveyed ☐ Estimated Datum ON-SITE

Drilling Fluid Used Drilling Method Geoprobe

Drilling Contractor ZEBRA ENVIRONMENTAL Driller Brent Helper Charles

Prepared By Scott Marshall Hammer Weight NA Hammer Drop NA ins.

Sample/Core Depth (feet below land surface) From	To	Core Recovery (feet)	Time/Hydraulic Pressure or Blows per 6 Inches	Sample/Core Description DTW 3.0' bgs
0.0	4.0	2.8		0.0-1.3 Sand (m) with gravel (f) brown 0 ppm
				1.3-1.6 silty sand black grey 0 ppm
				1.6-2.8 Sand (m) with little silt (f) grey 50 ppm
4.0	8.0	4.0		0.0-3.1 Sand (m-c) little gravel (f) grey med-sl. odor 30-5 ppm
				3.1-3.7 sand (f) with silt grey 1-2 ppm
				3.7-4.0 Sand (f) red/brown
8.0	12.0			Clay/Peat Red brown
				34a 1.5
				34b 3.5
				34c 9.0

LAWGIBB GROUP

Sample/Core Log

SITE NAME
SITE LOCATION

Boring/Well SB-35 Project/No. 22000-0-0026-300 Page 1 of 1

Site Location Former Cibro Pet. Facility Island Park, NY

Drilling Started 12/6/00 Drilling Completed 12/6/00

Total Depth Drilled 12 Feet Hole Diameter 2 inches Type of Sample/ Coring Device MACRO CORE

Length and Diameter of Coring Device 4 FOOT x 2 INCHES Sampling Interval CONT feet

Land-Surface Elev. 100.35 feet ☒ Surveyed ☐ Estimated Datum ON-SITE

Drilling Fluid Used — Drilling Method Geoprobe

Drilling Contractor ZEBRA ENVIRONMENTAL Driller Brent Helper Charles

Prepared By SCOTT MARSHALL Hammer Weight NA Hammer Drop NA ins.

DTW 4'

Sample/Core Depth (feet below land surface) From	To	Core Recovery (feet)	Time/Hydraulic Pressure or Blows per 6 Inches	Sample/Core Description
0.0	4.0	2.9	—	0.0-2.9 Sand (m-c) with gravel black stainings, petro odor 50-60 ppm
4.0	8.0	3.5		0.0-1.3 S.A.A 20-30 ppm 1.3-3.5 Sand (m-f) gray to sand (f) gray 10-20 ppm
8.0	12.0	2.1		0.0-0.5 SILTY SAND with Peat 0.5-2.1 Clay / Peat layer Dk brown 0 ppm 35a 2' 35b 4.5' 35c 9'

LAWGIBB GROUP

Sample/Core Log

SITE NAME
SITE LOCATION

...ing/Well SB-36 Project/No. 22000-0-0026-300 Page 1 of 1

Site Location Former Cibro Pet. Facility Island Park, NY

Drilling Started 12/6/00 Drilling Completed 12/6/00

Total Depth Drilled 12.0 Feet Hole Diameter 2 inches Type of Sample/ Coring Device MACRO CORE

Length and Diameter of Coring Device 4 FOOT x 2 INCHES Sampling Interval CONT feet

Land-Surface Elev. 100.95 feet ☒ Surveyed ☐ Estimated Datum ON-SITE

Drilling Fluid Used — Drilling Method Geoprobe

Drilling Contractor ZEBRA ENVIRONMENTAL Driller Brent Helper Charles

Prepared By SCOTT HARSHALL Hammer Weight NA Hammer Drop NA ins.

DTW 4.5' bgs

Sample/Core Depth (feet below land surface) From	To	Core Recovery (feet)	Time/Hydraulic Pressure or Blows per 6 Inches	Sample/Core Description
0.0	4.0	2.7	—	0.0-0.5 Asphalt & Gravel
				0.5-2.7 Sand (m) with coarse sand & gravel grey-black m. odor 20-30 ppm
4.0	8.0	2.6	—	0.0-1.2 Sand (m-c) with gravel (f) petr odor grey black 30-40ppm
				1.2-2.0 Sand (f-m) grey med. petr odor 5-10 ppm
8.0	12.0	2.8	—	0-2.8 Clay/Silt Red brown
				36a 2'
				36b 5'
				36c 9'

LAWGIBB GROUP

SITE NAME
SITE LOCATION

Sample/Core Log

Boring/Well SB-37 Project/No. 22000-0-0026-300 Page 1 of 1

Site Location Former Cibro Pet. Facility Island Park, NY Drilling Started 12/100 Drilling Completed 12/100

Total Depth Drilled 8 Feet Hole Diameter 2 inches Type of Sample/ Coring Device MACRO CORE

Length and Diameter of Coring Device 4 FOOT x 2 INCHES Sampling Interval CONT feet

Land-Surface Elev. 101.1 feet [X] Surveyed [ ] Estimated Datum ON-SITE

Drilling Fluid Used _____ Drilling Method Geoprobe

Drilling Contractor ZEBRA ENVIRONMENTAL Driller Brent Helper _____

Prepared By SCOTT MARSHALL Hammer Weight NA Hammer Drop NA ins.

DTW 3.0' bgs

Sample/Core Depth (feet below land surface) From	To	Core Recovery (feet)	Time/Hydraulic Pressure or Blows per 6 Inches	Sample/Core Description
0.0	4.0	3.2		0.0 - 1.5 Sand (m-c) with silty clay with gravel (f-m) brown ∅ ppm
				1.5 - 2.6 Sand (m-f) black staining petro odor 25-35 ppm
				2.6 - 3.1 Sand (m-f) grey 10-15 ppm
4.0	8.0	4.0		6.0 - 2.7 Sand (m-c) sl. odor grey med - sl. odor 5-10 ppm
				2.7 - 4.0 Clay / Silt Red brown STRONG methane
				37a 1.5
				37b 3.0
				37c 7.0

LAWGIBB GROUP

Sample/Core Log

SITE NAME
SITE LOCATION

Boring/Well SB-38 Project/No. 22000-0-0026-300 Page 1 of 1

Site Location Former Cibro Pet. Facility Island Park, NY

Drilling Started 12/6/00 Drilling Completed 12/6/00

Total Depth Drilled 12 Feet Hole Diameter 2 inches Type of Sample/ Coring Device MACRO CORE

Length and Diameter of Coring Device 4 FOOT x 2 INCHES Sampling Interval CONT feet

Land-Surface Elev. 100.7 feet ☒ Surveyed ☐ Estimated Datum ON-SITE

Drilling Fluid Used — Drilling Method Geoprobe

Drilling Contractor ZEBRA ENVIRONMENTAL Driller Brent Helper Charles

Prepared By Scott Marshall Hammer Weight NA Hammer Drop NA ins.

DTW 3.5'

Sample/Core Depth (feet below land surface) From	To	Core Recovery (feet)	Time/Hydraulic Pressure or Blows per 6 Inches	Sample/Core Description
0.0	4.0	2.7	—	0.0 - 0.4 Asphalt and Gravel
				0.4 - 2.7 Sand (m-f) some gravel grey - some black staining petrol odor 10ppm
4.0	8.0	3.0	—	0.0 - 2.2 Sand (m-c) SL. black - gray some staining 10 ppm
8.0	12.0			Clay / Peat Red Brown
				38 a 1.5
				38 b 4
				38 c 9

LAWGIBB GROUP

Sample/Core Log

SITE NAME
SITE LOCATION

Boring/Well SB-39 Project/No. 22000-0-0026-300 Page 1 of 1

Site Location Former Cibco Pet. Facility Island Park, NY

Drilling Started 12/7/00 Drilling Completed 12/7/00

Total Depth Drilled 12 Feet Hole Diameter 2 inches Type of Sample/ Coring Device MACRO CORE

Length and Diameter of Coring Device 4 FOOT x 2 INCHES

Sampling Interval CONT feet

Land-Surface Elev. 100.2 feet ☒ Surveyed ☐ Estimated Datum ON-SITE

Drilling Fluid Used —

Drilling Method Geoprobe

Drilling Contractor ZEBRA ENVIRONMENTAL Driller Brent Helper Rocky

Prepared By SCOTT MARSHALL Hammer Weight NA Hammer Drop NA ins.

Sample/Core Depth (feet below land surface) From	To	Core Recovery (feet)	Time/Hydraulic Pressure or Blows per 6 Inches	Sample/Core Description
				DTW 3.5'-4.0' 6/6/00
0.0	4.0	2.4	—	0.0-2.4 Sand (f-m) black staining 20-40 ppm
4.0	8.0	4.0	—	0.0-1.4 Sand (f-m) STAINED black petrol odor 80 ppm 1.4-2.0 Sand (f-m) Grey 60 ppm 2.0-2.3 clay, grey 10 ppm 2.3-4.0 Sand (f-m) grey 20 ppm
8.0	12.0	2.5	—	0.0-2.5 Clay/Peat Red brown w/ petrol odor
				39a 2 39b 4 39c 9

LAWGIBB GROUP

Sample/Core Log

SITE NAME
SITE LOCATION

Boring/Well SB-40 Project/No. 22000-0-0026-300 Page 1 of 1

Site Location Former Cibro Pet. Facility Island Park, NY

Drilling Started 12/7/00 Drilling Completed 12/7/00

Total Depth Drilled 12 feet Hole Diameter 2 inches Type of Sample/ Coring Device MACRO CORE

Length and Diameter of Coring Device 4 FOOT x 2 INCHES Sampling Interval CONT feet

Land-Surface Elev. 100.1 feet ☒ Surveyed ☐ Estimated Datum ON-SITE

Drilling Fluid Used — Drilling Method Geoprobe

Drilling Contractor ZEBRA ENVIRONMENTAL Driller Brent Helper Rocky

Prepared By Scott Marshall Hammer Weight NA Hammer Drop NA ins.

Sample/Core Depth (feet below land surface) From	To	Core Recovery (feet)	Time/Hydraulic Pressure or Blows per 6 Inches	Sample/Core Description DTW 3.5-4.0
0.0	4.0	2.1	—	0.0-0.6 Sand (m) gray gasoline odor 150 ppm
				0.6-2.4 sand (m) black odor petrol/gas odor 200-250 ppm
4.0	8.0	4.0		0.0-3.8 Sand (m) Cuttle (c-f) black stained, odor 30-50 ppm
				3.8-4.0 sand (m-f) Gray, odor 25 ppm
8.0	12.0	3.1		0.0-0.4 sand (m-f) grey 10 ppm
				0.4-3.1 MARL/clay Grey
				40a 1.5
				40b 4.0
				40c 9.0

LAWGIBB GROUP

Sample/Core Log

SITE NAME
SITE LOCATION

Boring/Well SB-41 Project/No. 22000-0-0026-300 Page 1 of 1

Site Location Former Cibro Pet. Facility Island Park, NY

Drilling Started 12/7/00 Drilling Completed 12/7/00

Total Depth Drilled 8 Feet Hole Diameter 2 inches Type of Sample/ Coring Device MACRO CORE

Length and Diameter of Coring Device 4 FOOT x 2 INCHES

Land-Surface Elev. 99.8 feet ☒ Surveyed ☐ Estimated Datum ON-SITE Sampling Interval CONT feet

Drilling Fluid Used

Drilling Method Geoprobe

Drilling Contractor ZEBRA ENVIRONMENTAL Driller Brent Helper

Prepared By Scott Horshall Hammer Weight NA Hammer Drop NA ins.

Sample/Core Depth (feet below land surface) From	To	Core Recovery (feet)	Time/Hydraulic Pressure or Blows per 6 Inches	Sample/Core Description
0.0	4.0	2.5		DTW 3.5' BGS 0.0-0.9 SILTY SAND, black 1-5 ppm 0.9-2.5 Sand (m) gray + gasoline odor 80 ppm
4.0	8.0	2.9		0.0-1.6 Sand (m-c) gray med odor 20-40 ppm 1.6-1.9 Sandy silt - fine sand gray 3-4 ppm 1.9-2.9 clay / Peat layer Red from strong methane odor 4/4 2' 4/6 4' 4/c 8'

Samplelg.xls
4/6/99

LAWGIBB GROUP

Sample/Core Log

SITE NAME
SITE LOCATION

Boring/Well SB-42 Project/No. 22000-0-0026-300 Page 1 of 1

Site Location Former Cibro Pet. Facility Island Park, NY

Drilling Started 12/7/00 Drilling Completed 12/7/00

Total Depth Drilled 12 Feet Hole Diameter 2 inches Type of Sample/ Coring Device Macro Core

Length and Diameter of Coring Device 4 Foot x 2 Inches Sampling Interval Cont feet

Land-Surface Elev. 100 feet ☒ Surveyed ☐ Estimated Datum On-Site

Drilling Fluid Used — Drilling Method Geoprobe

Drilling Contractor Zebra Environmental Driller Brent Helper Rocky

Prepared By Scott Horshall Hammer Weight NA Hammer Drop NA ins.

Sample/Core Depth (feet below land surface) From	To	Core Recovery (feet)	Time/Hydraulic Pressure or Blows per 6 Inches	Sample/Core Description
0.0	4.0	3.0	—	0.0-0.9 Silty sand black 40 ppm
				0.9-2.0 silty sand clay 30 ppm
				2.0-2.5 Sand (m-c) staining black petro odor 50 ppm
				2.5-3.0 sand (m-f) grey petro odor 20 ppm
4.0	8.0	3.5	—	0.0-3.3 Sand (m-f) grey odor 50 ppm — 15 ppm
				3.3-3.5 clay / Peat Red brown 4 ppm
8.0	12.0	3.5		clay / Peat Red brown PID 4 ppm

LAWGIBB GROUP

Sample/Core Log

SITE NAME
SITE LOCATION

Boring/Well SB-43 Project/No. 22000-0-0026-300 Page 1 of 1

Site Location Former Cibro Pet. Facility Island Park, NY

Drilling Started 12/7/00 Drilling Completed 12/7/00

Total Depth Drilled 8 Feet Hole Diameter 2 inches Type of Sample/ Coring Device MACRO CORE

Length and Diameter of Coring Device 4 FOOT x 2 INCHES Sampling Interval CONT feet

Land-Surface Elev. 99.8 feet ☒ Surveyed ☐ Estimated Datum ON-SITE

Drilling Fluid Used — Drilling Method Geoprobe

Drilling Contractor ZEBRA ENVIRONMENTAL Driller Brent Helper Rocky

Prepared By SCOTT Marshall Hammer Weight NA Hammer Drop NA ins.

PTW 3.5'

Sample/Core Depth (feet below land surface) From	To	Core Recovery (feet)	Time/Hydraulic Pressure or Blows per 6 Inches	Sample/Core Description
0.0	4.0	2.5	—	0.0 - 1.5 SILTY SAND - clay black with odor 3-10 ppm
				1.5 - 1.9 SILTY SAND Gray 50 ppm
				1.9 - 2.5 Sand (m-c), wet with gravel (f) gray black odor petrol/gasoline
4.0	8.0	4.0		0.0 - 0.5 SAA 50 ppm
				0.5 - 3.0 Sand (m-c) gray mod/st. petrol odor
				3.0 - 4.0 Clay / Peat Rd Brown mod/st odor
				43a 1.5
				43b 4
				43c 8

LAWGIBB GROUP

Sample/Core Log

SITE NAME
SITE LOCATION

Boring/Well SB-44 Project/No. 22000-0-0026-300 Page 1 of 1

Site Location Former Cibro Pet. Facility Island Park, NY

Drilling Started 12/8/00 Drilling Completed 12/8/00

Total Depth Drilled 12 Feet Hole Diameter 2 inches Type of Sample/ Coring Device MACRO CORE

Length and Diameter of Coring Device 4 FOOT x 2 INCHES Sampling Interval CONT feet

Land-Surface Elev. 100.1 feet ☒ Surveyed ☐ Estimated Datum ON-SITE

Drilling Fluid Used _____ Drilling Method Geoprobe

Drilling Contractor ZEBRA ENVIRONMENTAL Driller Brent Helper Rocky

Prepared By SCOTT MARSHALL Hammer Weight NA Hammer Drop NA ins.

Sample/Core Depth (feet below land surface) From	To	Core Recovery (feet)	Time/Hydraulic Pressure or Blows per 6 Inches	Sample/Core Description
				DTW 3.0' bgs
0.0	4.0	2.5		0.0-0.9 SILT, black
				0.9-1.7 Pea Gravel, gasoline odor 50 ppm
				1.7-2.5 Sand (f) with silt grey gasoline odor 160 ppm
4.0	8.0	2.5		4.0-2.5 Sand (m) grey strong gasoline odor 100-150 ppm
8.0	12.0	3.0		Clay / Peat Red brown
				44a 1.5'
				44b 4'
				44c 9'

LAWGIBB GROUP

Sample/Core Log

SITE NAME
SITE LOCATION

Boring/Well SB-45 Project/No. 22000-0-0026-300 Page 1 of 1

Site Location Former Cibro Pet. Facility Island Park, NY

Drilling Started 12/8/00 Drilling Completed 12/8/00

Total Depth Drilled 12 Feet Hole Diameter 2 inches Type of Sample/ Coring Device MACRO CORE

Length and Diameter of Coring Device 4 FOOT x 2 INCHES Sampling Interval CONT feet

Land-Surface Elev. 99.7 feet [X] Surveyed [ ] Estimated Datum ON-SITE

Drilling Fluid Used — Drilling Method Geoprobe

Drilling Contractor ZEBRA ENVIRONMENTAL Driller Brent Helper Rocky

Prepared By SCOTT MARSHALL Hammer Weight NA Hammer Drop NA ins.

Sample/Core Depth (feet below land surface) From	To	Core Recovery (feet)	Time/Hydraulic Pressure or Blows per 6 Inches	Sample/Core Description
				DTW 3.0' 6 c.s
0.0	4.0	2.0	—	0.0-1.5 Sand (m-c) black-grey
				1.5-2.0 Sand (m) black mod. petro odor
4.0	8.0	3.0		0.0-1.4 SAA
				1.4-3.0 Sand (m-c) grey odor
8.0	12.0	3.1		Clay / Peat - Red brown
				45a 1.5'
				45b 3.5'
				45c 9'
				PID BATTERY DEAD
				END of DAY

LAWGIBB GROUP

Sample/Core Log

SITE NAME
SITE LOCATION

Boring/Well SB-46 Project/No. 22000-0-0026-300 Page 1 of 1

Site Location Former Ciba Pet. Facility Island Park, NY

Drilling Started 12/8/00 Drilling Completed 12/9/00

Total Depth Drilled 16 Feet Hole Diameter 2 inches Type of Sample/ Coring Device MACRO CORE

Length and Diameter of Coring Device 4 FOOT x 2 INCHES Sampling Interval CONT feet

Land-Surface Elev. 99.35 feet ☒ Surveyed ☐ Estimated Datum ON-SITE

Drilling Fluid Used — Drilling Method Geoprobe

Drilling Contractor ZEBRA ENVIRONMENTAL Driller Brent Helper Rocky

Prepared By SCOTT HORSHALL Hammer Weight NA Hammer Drop NA ins.

DTW 3.5' bgs

Sample/Core Depth (feet below land surface) From	To	Core Recovery (feet)	Time/Hydraulic Pressure or Blows per 6 Inches	Sample/Core Description
0.0	4.0	2.3	—	0.0-1.0 Gravel (f) black-gray 10 ppm
				1.0-2.3 Sand (m) gray sat/lm odor 50-60 ppm
4.0	8.0	2.3	—	0.0-2.3 Sand (m) gray sat/lm odor 50-70 ppm
8.0	12.0	4.0		0.0-3.7 SAA 30-40 ppm
				3.7-4.0 Peat/clay Dark Brown
12	16	3.0		0.0-3.0 MARL/Clay Gray
				4bg 1.5
				4b 4'
				4c 13'

LAWGIBB GROUP

Sample/Core Log

SITE NAME
SITE LOCATION

Boring/Well SB-47 Project/No. 22000-0-0026-300 Page 1 of 1

Site Location Former Cibro Pet. Facility Island Park, NY

Drilling Started 12/ /00 Drilling Completed 12/ /00

Total Depth Drilled 12 Feet Hole Diameter 2 inches Type of Sample/ Coring Device MACRO CORE

Length and Diameter of Coring Device 4 FOOT x 2 INCHES Sampling Interval CONT feet

Land-Surface Elev. 99.85 feet ☒ Surveyed ☐ Estimated Datum ON-SITE

Drilling Fluid Used — Drilling Method Geoprobe

Drilling Contractor ZEBRA ENVIRONMENTAL Driller Brent Helper Rocky

Prepared By SCOTT HOCSHALL Hammer Weight NA Hammer Drop NA ins.

Sample/Core Depth (feet below land surface) From	To	Core Recovery (feet)	Time/Hydraulic Pressure or Blows per 6 Inches	Sample/Core Description
				DTW 3.0
0.0	4.0	2.9	—	0.0-2.9 sand (m) brown
				0.9-2.8 silty sand, black gas odor
				2.8-2.9 sand (m) gray gasoline odor
4.0	8.0	2.7	—	0.0-0.9 SAA
				0.9-2.7 sand (m-c) gray gasoline odor
8.0	12.0	3.0	—	Clay/Peat Red brown methane odor
				PID BATTERY dead
				479 1.5
				476 3.5
				47- 9

LAWGIBB GROUP

Sample/Core Log

SITE NAME
SITE LOCATION

Boring/Well SB-48 Project/No. 22000-0-0026-300 Page 1 of 1

Site Location Former Cibro Pet. Facility Island PARK, NY Drilling Started 12/5/00 Drilling Completed 12/5/00

Total Depth Drilled 8 Feet Hole Diameter 2 inches Type of Sample/ Coring Device MACRO CORE

Length and Diameter of Coring Device 4 FOOT x 2 INCHES Sampling Interval CONT feet

Land-Surface Elev. 99.7 feet ☒ Surveyed ☐ Estimated Datum ON-SITE

Drilling Fluid Used — Drilling Method Geoprobe

Drilling Contractor ZEBRA ENVIRONMENTAL Driller Brent Helper Charles

Prepared By SCOTT MARSHALL Hammer Weight NA Hammer Drop NA ins.

DTW 4.5' (6/5)

Sample/Core Depth (feet below land surface) From	To	Core Recovery (feet)	Time/Hydraulic Pressure or Blows per 6 inches	Sample/Core Description
0.0	4.0	2.8	—	0.0-1.4 Sand (f-m), little gravel (f) 2-5 ppm
				1.4-2.8 SILTY SAND - SAND (f) some fine gravel black petrol odor + STAINING 6-8 ppm
4.0	8.0	2.2	—	Recovery
				0.0-1.1 Sand (m-c), some gravel (f) 6-8 ppm
				1.1-1.5 Sand (m-c) gray-red 4 ppm
				1.5-2.2 clay/silt red brown methane odors 4 ppm
				4Bq 1.5
				4Bb 5.0
				4Bc 8.0

LAWGIBB GROUP

Sample/Core Log

SITE NAME
SITE LOCATION

Boring/Well SB-49 Project/No. 22000-0-0026-300 Page 1 of 1

Site Location Former Cibro Pet. Facility Island Park, NY

Drilling Started 12/6/00 Drilling Completed 12/6/00

Total Depth Drilled 8.0 Feet Hole Diameter 2 inches Type of Sample/Coring Device MACRO CORE

Length and Diameter of Coring Device 4 FOOT x 2 INCHES Sampling Interval CONT feet

Land-Surface Elev. 99 feet [X] Surveyed [ ] Estimated Datum ON-SITE

Drilling Fluid Used — Drilling Method Geoprobe

Drilling Contractor ZEBRA ENVIRONMENTAL Driller Brent Helper Charlie

Prepared By Scott Marshall Hammer Weight NA Hammer Drop NA ins.

DTW 2'

Sample/Core Depth (feet below land surface) From	To	Core Recovery (feet)	Time/Hydraulic Pressure or Blows per 6 Inches	Sample/Core Description
0.0	4.0	2.7	—	0.0-0.6 Sand (c) and gravel (f) 0-5 ppm
				0.6-1.5 S.A.A black stainings, odor 15 ppm
				1.5-2.0 Silty sand, and peat organic material odor petro black stainings sheen 50 ppm
				2.0-2.7 Peat/clay stained black to / grading to Red brown 0-8 ppm
4.0	8.0	3.0	—	0-3.0 Clay/Peat Red brown strong methane odor
				49a 1.5
				49b 2.5
				49c 6

LAWGIBB GROUP

Sample/Core Log

SITE NAME
SITE LOCATION

Boring/Well SB-50 Project/No. 22000-0-0026-300 Page 1 of 1

Site Location Former Ciba Pet. Facility Island PARK, NY Drilling Started 12/6/00 Drilling Completed 12/6/00

Total Depth Drilled 12.0 Feet Hole Diameter 2 inches Type of Sample/ Coring Device MACRO CORE

Length and Diameter of Coring Device 4 FOOT x 2 INCHES Sampling Interval CONT feet

Land-Surface Elev. 98 feet ☒ Surveyed ☐ Estimated Datum ON-SITE

Drilling Fluid Used — Drilling Method Geoprobe

Drilling Contractor ZEBRA ENVIRONMENTAL Driller Brent Helper Charles

Prepared By SCOTT MARSHALL Hammer Weight NA Hammer Drop NA ins.

Sample/Core Depth (feet below land surface) From	To	Core Recovery (feet)	Time/Hydraulic Pressure or Blows per 6 Inches	Sample/Core Description
0.0	4.0	2.6	—	DTW 1'
				0.0-0.5 Gravelly SILT 0 ppm
				0.5-1.8 Sand (f-m) with gravel (f) black staining, petro odor
				1.8 20 ppm
				1.8-2.6 Sand (m-c) brown
				2 ppm
4.0	8.0	2.4	—	Sand (c-m) gray black faint odor
				4-6 ppm
8.0	12.0			Clay-Peat Red brown methane odor 0 ppm
				506 1.5
				50 C 8.5

LAWGIBB GROUP

Sample/Core Log

SITE NAME
SITE LOCATION

Boring/Well SB-51 Project/No. 22000-0-0026-300 Page 1 of 1

Site Location Former Cibro Pet. Facility Island Park, NY

Drilling Started 12/ /00 Drilling Completed 12/ /00

Total Depth Drilled 8 Feet Hole Diameter 2 inches Type of Sample/ Coring Device MACRO CORE

Length and Diameter of Coring Device 4 FOOT x 2 INCHES

Sampling Interval CONT feet

Land-Surface Elev. 495 feet ☒ Surveyed ☐ Estimated Datum Surveyed

Drilling Fluid Used —

Drilling Method Geoprobe

Drilling Contractor ZEBRA ENVIRONMENTAL Driller Brent Helper Charles

Prepared By Scott Marshall

Hammer Weight NA Hammer Drop NA ins.

DTW 2.8' bgs

Sample/Core Depth (feet below land surface) From	To	Core Recovery (feet)	Time/Hydraulic Pressure or Blows per 6 Inches	Sample/Core Description
0.0	4.0	3.1	—	0.0-1.1 Sand(f) brown ϕ ppm
				1.1-2.0 Sand(m-c) with gravel(f) brown
				2.0-3.1 Sand (c-m) with gravel (f) brown gray @ ϕ ppm
4.0	8.0	3.2	—	0.0-1.5 Sand (c-m) with gravel(f) gray ϕ ppm
				1.9-3.2 Sand (fine) with silt gravel ϕ ppm
				Sla 1.5
				Slb 3
				Slc 7

LAWGIBB GROUP

Sample/Core Log

SITE NAME
SITE LOCATION

Boring/Well SB-52 Project/No. 22000-0-0026-300 Page 1 of 1

Site Location Former Cibro Pet. Facility Island Park, NY

Drilling Started 12/7/00 Drilling Completed 12/7/00

Total Depth Drilled 12 Feet Hole Diameter 2 inches Type of Sample/ Coring Device Macro Core

Length and Diameter of Coring Device 4 Foot x 2 Inches Sampling Interval Cont feet

Land-Surface Elev. 99 feet ☒ Surveyed ☐ Estimated Datum On-Site

Drilling Fluid Used _____ Drilling Method Geoprobe

Drilling Contractor Zebra Environmental Driller Brent Helper Rocky

Prepared By Scott Marshall Hammer Weight NA Hammer Drop NA ins.

Sample/Core Depth (feet below land surface) From	To	Core Recovery (feet)	Time/Hydraulic Pressure or Blows per 6 Inches	Sample/Core Description
				Standing water / 12.0
0.0	4.0	2.1	—	0.0-2.1 Sand (m-f) gray Sl. petro odor
4.0	8.0	2.8	—	0.0-1.1 Sand (m) with coarse black grey, some staining sheen 5-10 ppm
				1.1-2.8 Sand (m-c) grey odor 5 ppm
8.0	12.0	2.5		Clay / Peat Red Brn
				4' 526
				8' 52n

LAWGIBB GROUP

Sample/Core Log

SITE NAME
SITE LOCATION

Boring/Well SB-53 Project/No. 22000-0-0026-300 Page 1 of 1

Site Location Former Cibro Pet. Facility Island Park, NY

Drilling Started 12/5/00 Drilling Completed 12/5/00

Total Depth Drilled 12 Feet Hole Diameter 2 inches Type of Sample/ Coring Device MacroCore

Length and Diameter of Coring Device 4 Foot x 2 Inches Sampling Interval Cont feet

Land-Surface Elev. 100.7 feet ☒ Surveyed ☐ Estimated Datum ON-SITE

Drilling Fluid Used — Drilling Method Geoprobe

Drilling Contractor ZEBRA ENVIRONMENTAL Driller Brent Helper Charles

Prepared By Scott Marshall Hammer Weight NA Hammer Drop NA ins.

DTW - 3.5'

Sample/Core Depth (feet below land surface) From	To	Core Recovery (feet)	Time/Hydraulic Pressure or Blows per 6 Inches	Sample/Core Description
0.0	4.0	2.6	—	0.0 - 0.6 Gravel & sand Ø ppm
				0.6 - 1.8 Sand (f-c) with gravel (f) gray brown
				1.8 - 2.0 Sand (f) grey black
				2.0 - 2.6 Sand (m-c) grey
4.0	8.0	3.5	—	0.0 - 0.9 Ø ppm
				Sand (m-c) grey v. faint odor
				0.9 - 3.5 Ø ppm
				Sand (m) grading to Sand (f) with silt - faint - No odor
8.0	12.0	2.6	2.6	0.0 - 0.6 Ø ppm
			PID	Sand (f) with silty clay
			4	0.6 - 1.4 Marl/clay Grey
			ppm	1.4 - 2.6 Peat red brown
				PID 10 - 20 ppm Methane odor
				strong

53a 1.5
53b 4
53c 9

LAWGIBB GROUP

Sample/Core Log

SITE NAME
SITE LOCATION

Boring/Well SB-54 Project/No. 22000-0-0026-300 Page 1 of 1

Site Location Former Cibco Pet. Facility Island Park, NY

Drilling Started 12/5/00 Drilling Completed 12/5/00

Total Depth Drilled 12 Feet Hole Diameter 2 inches

Type of Sample/Coring Device MacroCore

Length and Diameter of Coring Device 4 Foot x 2 Inches

Sampling Interval Cont feet

Land-Surface Elev. 100.5 feet ☒ Surveyed ☐ Estimated

Datum On-Site

Drilling Fluid Used

Drilling Method Geoprobe

Drilling Contractor Zebra Environmental

Driller Brent Helper Charles

Prepared By Scott Horshall

Hammer Weight NA Hammer Drop NA ins.

Sample/Core Depth (feet below land surface) From	To	Core Recovery (feet)	Time/Hydraulic Pressure or Blows per 6 Inches	Sample/Core Description
0.0	4.0	2.8	—	0.0-1.6 0 ppm Sand (f-m) with clay some gravel fine brown grass 1.6-2.1 Sand (f) and clay - brown - grey 2-4 ppm 2.1-2.8 4-6 ppm Sand (f-m) some clay DTW ~2.5 bgs
4.0	8.0	2.9	—	0.0-2.9 0 ppm Sand (c-m) grading Sand (f-m) with SILT Grey brown
8.0	12.0	3.3	—	0.0-3.3 Peat, Red brown STRONG methane odors

54a 1.5
54b 3.0
54c 8.

LAWGIBB GROUP

Sample/Core Log

SITE NAME
SITE LOCATION

Boring/Well SB-55 Project/No. 22000-0-0026-300 Page 1 of 1

Site Location Former Cibro Pet. Facility Island Park, NY

Drilling Started 12/5/00 Drilling Completed 12/5/00

Total Depth Drilled 8 Feet Hole Diameter 2 inches Type of Sample/ Coring Device MACRO CORE

Length and Diameter of Coring Device 4 FOOT x 2 INCHES Sampling Interval CONT feet

Land-Surface Elev. 100 feet ☒ Surveyed ☐ Estimated Datum ON-SITE

Drilling Fluid Used — Drilling Method Geoprobe

Drilling Contractor ZEBRA ENVIRONMENTAL Driller Brent Helper Charles

Prepared By SCOTT HORSHALL Hammer Weight NA Hammer Drop NA ins.

DTW 2.5'

Sample/Core Depth (feet below land surface) From	To	Core Recovery (feet)	Time/Hydraulic Pressure or Blows per 6 Inches	Sample/Core Description	
0.0	4.0	2.7	—	0.0-1.2 Sand (m-f) with gravel (f-m) brown grey	↑
				1.2-1.7 Sand (m) with fine sand and silt dark brown	PPM
				1.7-2.7 Sand (m-c) with gravel (f) mlt dark brown-grey	↓
4.0	8.0	4.0		Sand (m) grading to very fine sand grey-wet PPM	
				55a 1.5	
				55b 3.0	
				55c 7.0	

LAWGIBB GROUP

Sample/Core Log

SITE NAME
SITE LOCATION

Boring/Well SB-56 Project/No. 22000-0-0026-300 Page 1 of 1

Site Location Former Cibro Pet. Facility Island Park, NY

Drilling Started 12/7/00 Drilling Completed 12/7/00

Total Depth Drilled 12 Feet Hole Diameter 2 inches Type of Sample/ Coring Device MACRO CORE

Length and Diameter of Coring Device 4 FOOT x 2 INCHES Sampling Interval CONT feet

Land-Surface Elev. 101.5 feet [X] Surveyed [ ] Estimated Datum ON-SITE

Drilling Fluid Used Drilling Method Geoprobe

Drilling Contractor ZEBRA ENVIRONMENTAL Driller Brent Helper ~~Charles~~ Rocky

Prepared By SCOTT MARSHALL Hammer Weight NA Hammer Drop NA ins.

Sample/Core Depth (feet below land surface) From	To	Core Recovery (feet)	Time/Hydraulic Pressure or Blows per 6 Inches	Sample/Core Description
				DTW 3.5
0.0	4.0	4.0	—	0.0-0.7 Sand (f) brown 0 ppm
				0.7-1.1 Sand Gravel brown 1 ppm
				1.1-2.8 Sandy clay w/ gravel (f-m) 1 ppm
				2.9-3.5 Sand (f) gray black
				3.5-4.0 Sand (m-f) coarse sand 5 ppm
4.0	8.0	4.0	—	0-4 Sand (m-c) grey petro odor slight 5-10 ppm
20	12.0	3.0	—	0.0-0.5 SILTY SAND grey wet
				0.5-3.0 clay / Peat Layer STRONG methane odor
				56a 2'
				56b 4'
				56c 9'

LAWGIBB GROUP

Sample/Core Log

SITE NAME
SITE LOCATION

Boring/Well SB-57 Project/No. 22000-0-0026-300 Page 1 of 1

Site Location Former Cibro Pet. Facility Island Park, NY

Drilling Started 12/6/00 Drilling Completed 12/6/00

Total Depth Drilled 12. Feet Hole Diameter 2 inches

Type of Sample/ Coring Device MACRO CORE

Length and Diameter of Coring Device 4 FOOT x 2 INCHES

Sampling Interval CONT feet

Land-Surface Elev. 99.6 feet ☒ Surveyed ☐ Estimated

Datum ON-SITE

Drilling Fluid Used —

Drilling Method Geoprobe

Drilling Contractor ZEBRA ENVIRONMENTAL

Driller Brent Helper Charles

Prepared By SCOTT Harshall

Hammer Weight NA Hammer Drop NA ins.

Sample/Core Depth (feet below land surface) From	To	Core Recovery (feet)	Time/Hydraulic Pressure or Blows per 6 inches	Sample/Core Description
				DTW 3.0' 6gs
0.0	4.0	2.9	—	0.0-1.7 Sand (f), silty clay and gravel (f) brown 0-5 ppm
				1.7-2.0 Sand (m-f) grey brown 10 ppm
				2.0-2.9 Sand (m-f) and gravel (f) some clay wet, black stains petro odor 20-30 ppm
4.0	8.0	2		0.0-1.9 Sand (m-f) grading to SAND (f) black grey SLGT - NO odor ppm 0-10
				1.9-2.0 Clay/Peat Red brown 4 ppm
8.0	12.0	2.9		0.0-2.9 Marl/clay Gray methane odor 40 ppm

579 1.5
576 3.5
57c 9.0

LAWGIBB GROUP

SITE NAME
SITE LOCATION

Sample/Core Log

Boring/Well SB-58 Project/No. 22000-0-0026-300 Page 1 of 1

Site Location Former Cibro Pet. Facility Island Park, NY

Drilling Started 12/5/00 Drilling Completed 12/5/00

Total Depth Drilled 12 Feet Hole Diameter 2 inches

Type of Sample/ Coring Device MACRO CORE

Length and Diameter of Coring Device 4 FOOT x 2 INCHES

Sampling Interval CONT feet

Land-Surface Elev. 101 feet ☒ Surveyed ☐ Estimated

Datum ON-SITE

Drilling Fluid Used

Drilling Method Geoprobe

Drilling Contractor ZEBRA ENVIRONMENTAL

Driller Brent Helper Charlie

Prepared By SCOTT HORSHALL

Hammer Weight NA Hammer Drop NA ins.

PTW 3.5'6gs

Sample/Core Depth (feet below land surface) From	To	Core Recovery (feet)	Time/Hydraulic Pressure or Blows per 6 Inches	Sample/Core Description
0.0	4.0	4.0	—	0.0 - 3.0 Sand (f) and silty clay brown 0 ppm
				3.0 - 4.0 Sand (f) with med sand gray ~~0 ppm~~ 15-25 ppm
4.0	8.0	2.5	—	0.0 - 2.5 Sand (m-f), with gravel (f) odor / sheen / petrol 20-40 ppm
8.0	12.0	2.1	—	0.0 - 1.8 Sand (c-f) and gravel (f-m), med st. odor / petrol 20 ppm
				1.8 - 3.1 Clay / Silt Red brown strong methane
				58a 1.5
				58b 4
				58c 11

LAWGIBB GROUP

Sample/Core Log

SITE NAME
SITE LOCATION

Boring/Well SB-60 Project/No. 22000-0-0026-300 Page 1 of 1

Site Location Former Cibro Pet. Facility Island Park, NY

Drilling Started 12/5/00 Drilling Completed 12/5/00

Total Depth Drilled 8 Feet Hole Diameter 2 inches Type of Sample/ Coring Device MACRO CORE

Length and Diameter of Coring Device 4 FOOT x 2 INCHES Sampling Interval CONT feet

Land-Surface Elev. 100.3 feet ☒ Surveyed ☐ Estimated Datum ON-SITE

Drilling Fluid Used — Drilling Method Geoprobe

Drilling Contractor ZEBRA ENVIRONMENTAL Driller Brent Helper Charlie

Prepared By SCOTT HORSHALL Hammer Weight NA Hammer Drop NA ins.

Sample/Core Depth (feet below land surface) From	To	Core Recovery (feet)	Time/Hydraulic Pressure or Blows per 6 inches	Sample/Core Description
				BTW 1.0' bgs
0.0	4.0	3.0	—	0 ppm 0.0 - 0.8 Sand (f) dark brown
				0.8 - 2.0 Sand (c-m) and gravel (f)
				0 ppm grey
				0.1 ppm 2.0 - 3.0 Sand (f-m) black-gray
4.0	8.0	3.4	—	0.0 - 2.2 Sand (m-c) with gravel (f)
				grey black 2-4 ppm
				2.2 - 2.7 SILTY SAND, with clay
				gray sl. black
				2.7 - 3.0 sand (f) with clay
				gray 0 ppm
				3.0 - 3.4 Rust - Red brown
				STRONG methane odors
				9 ppm
				~~60B~~ 60b 2'
				60c 8'

LAWGIBB GROUP

SITE NAME
SITE LOCATION

Sample/Core Log

Boring/Well SB-61 Project/No. 22000-0-0026-300 Page 1 of 1

Site Location Former Cibro Pet. Facility Island Park, NY Drilling Started 12/6/00 Drilling Completed 12/6/00

Total Depth Drilled 8.0 Feet Hole Diameter 2 inches Type of Sample/Coring Device MACRO CORE

Length and Diameter of Coring Device 4 FOOT x 2 INCHES Sampling Interval CONT feet

Land-Surface Elev. 100.5 feet ☒ Surveyed ☐ Estimated Datum ON-SITE

Drilling Fluid Used _____ Drilling Method Geoprobe

Drilling Contractor ZEBRA ENVIRONMENTAL Driller Brent Helper Charlie

Prepared By SCOTT MARSHALL Hammer Weight NA Hammer Drop NA ins.

Sample/Core Depth (feet below land surface) From	To	Core Recovery (feet)	Time/Hydraulic Pressure or Blows per 6 Inches	Sample/Core Description
				DTW 3.5' bgs
0.0	4.0	2.3	—	0.0-1.9 Sandy clay w/silt and gravel (f) 0 ppm
				1.9-2.7 Sand (f-m) wet grey brown - mod. petroleum 10-15 ppm
4.0	8.0	3.5	—	0.0-0.5 Sand (f-m) grey 0 ppm
				0.5-1.6 Sand (f) black grey 0 ppm
				1.6-3.5 Clay/Peat dk brown strong mottled odor
				6/4 1.5
				6/6 4.0
				6/c 8.0

LAWGIBB GROUP

Sample/Core Log

SITE NAME
SITE LOCATION

boring/Well SB-59 Project/No. 22000-0-0026-300 Page 1 of 1

Site Location Former Ciba Pet. Facility Island Park, NY

Drilling Started 12/5/00 Drilling Completed 12/5/00

Total Depth Drilled 8 Feet Hole Diameter 2 inches Type of Sample/ Coring Device MACRO CORE

Length and Diameter of Coring Device 4 FOOT x 2 INCHES Sampling Interval CONT feet

Land-Surface Elev. 106.7 feet ☒ Surveyed ☐ Estimated Datum ON-SITE

Drilling Fluid Used — Drilling Method Geoprobe

Drilling Contractor ZEBRA ENVIRONMENTAL Driller Brent Helper Charles

Prepared By Scott Marshall Hammer Weight NA Hammer Drop NA ins.

Sample/Core Depth (feet below land surface) From	To	Core Recovery (feet)	Time/Hydraulic Pressure or Blows per 6 Inches	Sample/Core Description
0.0	4.0	3.1		0.0 - 1.1 Sandy, clay brown 4ppm
				1.1 - 1.7 Clayey silt, black 5ppm
				1.7 - 3.1 Sand (m-c) grey
				v. faint petro odor 4ppm
4.0	8.0	3.1		.00 - 1.5 Sand(c) w/ gravel (f)
				v. faint petro odor 6ppm
				1.5 - 2.0 silt, sand, clay black
				v. faint - not organic odor
				2-3 ppm
				2.0 - 3.1 sand (very f) with
				thin silty clay lenses
				0 ppm
				59a 1.5
				59b 4.0
				59c 8.0

LAWGIBB GROUP

Sample/Core Log

SITE NAME
SITE LOCATION

Boring/Well SB-63 Project/No. 22000-0-0026-300 Page 1 of 1

Site Location Former Cibro Pet. Facility Island Park, NY

Drilling Started 12/6/00 Drilling Completed 12/6/00

Total Depth Drilled 12.0 Feet Hole Diameter 2 inches Type of Sample/Coring Device MACRO CORE

Length and Diameter of Coring Device 4 FOOT x 2 INCHES Sampling Interval CONT feet

Land-Surface Elev. 99.4 feet ☐ Surveyed ☐ Estimated Datum

Drilling Fluid Used — Drilling Method Geoprobe

Drilling Contractor ZEBRA ENVIRONMENTAL Driller Brent Helper

Prepared By SCOTT MARSHALL Hammer Weight NA Hammer Drop NA ins.

Sample/Core Depth (feet below land surface) From	To	Core Recovery (feet)	Time/Hydraulic Pressure or Blows per 6 Inches	Sample/Core Description
				DTW 1.0' bgs
0.0	4.0	2.8	—	0.0-0.7 Sand (m-c) and gravel (f) brown ϕ ppm
				1.6-2.5 Sand (f) black ϕ ppm
				2.5-2.8 Sand (m) grey ϕ ppm
4.0	8.0	2.0	—	4.0-2.0 Sand (m) grey grading to sandy silt ϕ ppm
8.0	12.0	3.1	—	0.0-0.9 Peat / Red brown mix with SILTY SAND
				0.9-3.1 Clay / Peat Red brown STRONG methane odor
				636 2.5'
				63c 9'

LAWGIBB GROUP

Sample/Core Log

SITE NAME
SITE LOCATION

Boring/Well SB-62 Project/No. 22000-0-0026-300 Page 1 of 1

Site Location Former Cibro Pet. Facility Island Park, NY

Drilling Started 12/5/00 Drilling Completed 12/5/00

Total Depth Drilled 8 Feet Hole Diameter 2 inches Type of Sample/ Coring Device MacroCore

Length and Diameter of Coring Device 4 Foot x 2 Inches Sampling Interval Cont feet

Land-Surface Elev. 181.1 feet ☒ Surveyed ☐ Estimated Datum On-site

Drilling Fluid Used — Drilling Method Geoprobe

Drilling Contractor Zebra Environmental Driller Brent Helper Charles

Prepared By Scott Marshall Hammer Weight NA Hammer Drop NA ins.

DTW 3.5'

Sample/Core Depth (feet below land surface) From	To	Core Recovery (feet)	Time/Hydraulic Pressure or Blows per 6 Inches	Sample/Core Description
0.0	4.0	3.1	—	0.0-1.2 Sand (m-c) some gravel (f) grey ϕ ppm
				1.2-3.1 Sand (f-m) little coarse sand grey-black ϕ ppm
4.0	8.0	3.2	—	0.0-1.0 Sand (c-m) little sand (f) grey ϕ ppm
				1.0-2.0 Peat Red/Brown ϕ ppm
				2.0-2.7 Silty loam Duck-grey ϕ ppm
				2.7-3.2 Sand (f) to silty sand with Peat layer
				62a 1.5
				62b 4.0
				62c 8.0

LAWGIBB GROUP

Sample/Core Log

SITE NAME
SITE LOCATION

Boring/Well SB-64 Project/No. 22000-0-0026-300 Page 1 of 1

Site Location Former Cibro Pet. Facility Island Park, NY

Drilling Started 12/5/00 Drilling Completed 12/5/00

Total Depth Drilled 8.0 Feet Hole Diameter 2 inches Type of Sample/ Coring Device MACRO CORE

Length and Diameter of Coring Device 4 FOOT x 2 INCHES Sampling Interval CONT feet

Land-Surface Elev. 100 feet ☒ Surveyed ☐ Estimated Datum ON-SITE

Drilling Fluid Used — Drilling Method Geoprobe

Drilling Contractor ZEBRA ENVIRONMENTAL Driller Brent Helper Charles

Prepared By Scott Marshall Hammer Weight NA Hammer Drop NA ins.

Sample/Core Depth (feet below land surface) From	To	Core Recovery (feet)	Time/Hydraulic Pressure or Blows per 6 Inches	Sample/Core Description
				DTW 4.0
0.0	4.0	2.9	—	0.0-1.9 Sand (m-f) with silt Brown - grey 0 ppm
				1.9-2.1 Concrete fill 0 ppm
				2.1-2.9 SILT - little sand (f) v. faint odor/petro 0 ppm
4.0	8.0	4.0	—	0.0-2.5 Sand (c) with gravel (f) Grey 0 ppm
				2.5-4.0 Sand (f) little m. sand grading to silty SAND with clay lenses <1cm 0 ppm
				64a 1.5
				64b 4
				64c 8

LAWGIBB GROUP

Sample/Core Log

SITE NAME
SITE LOCATION

Boring/Well SB-65 Project/No. 22000-0-0026-300 Page 1 of 1

Site Location Farmers Cibro Pet. Facility Island Park, NY

Drilling Started 12/5/00 Drilling Completed 12/5/00

Total Depth Drilled 8 Feet Hole Diameter 2 inches Type of Sample/ Coring Device MACRO CORE

Length and Diameter of Coring Device 4 FOOT x 2 INCHES Sampling Interval CONT feet

Land-Surface Elev. 94.3 feet ☒ Surveyed ☐ Estimated Datum ~~SURVEY~~ ON-SITE

Drilling Fluid Used — Drilling Method Geoprobe

Drilling Contractor ZEBRA ENVIRONMENTAL Driller Brent Helper Charles

Prepared By SCOTT HARSHALL Hammer Weight NA Hammer Drop NA ins.

Sample/Core Depth (feet below land surface) From	To	Core Recovery (feet)	Time/Hydraulic Pressure or Blows per 6 Inches	Sample/Core Description DTW 1' bgs
0.0	4.0	2.8	—	0.0-0.8 Coarse sand yellow brown ϕ ppm
				0.8-2.8 Sand (f-m) grey-m. black ϕ ppm no odor
4.0	8.0	2.6	—	0.0-1.5 Sand (f) little silt grey-med black ϕ ppm
				1.5-1.9 sand (fine) grey ϕ ppm
				1.9-2.6 Sandy silt - silty clay
				GSa 2'
				GSb 7'

Samplelg.xls
4/5/00

LAWGIBB GROUP

SITE NAME
SITE LOCATION

Sample/Core Log

Boring/Well SB-66 Project/No. 22000-0-0026-300 Page 1 of 1

Site Location Former Cibro Pet. Facility Island Park, NY

Drilling Started 12/5/00 Drilling Completed 12/5/00

Total Depth Drilled 8 Feet Hole Diameter 2 inches Type of Sample/ Coring Device MACRO CORE

Length and Diameter of Coring Device 4 FOOT x 2 INCHES Sampling Interval CONT feet

Land-Surface Elev. 98.5 feet ☒ Surveyed ☐ Estimated Datum ON-SITE

Drilling Fluid Used — Drilling Method Geoprobe

Drilling Contractor ZEBRA ENVIRONMENTAL Driller Brent Helper Charlie

Prepared By SCOTT HARSHALL Hammer Weight NA Hammer Drop NA ins.

DTW 3'

Sample/Core Depth (feet below land surface) From	To	Core Recovery (feet)	Time/Hydraulic Pressure or Blows per 6 Inches	Sample/Core Description	
0.0	4.0	4.0	—	0.0-0.9 Sand (f) little silt brown	0 ppm
				0.9-1.1 3.6 ppm Sand (f) black / v. fine	
				1.1-1.5 0 ppm Sand (m)	
				1.5-2.6 0 ppm SILTY SAND with gravel (f) brown	
				2.6-2.8 Sand (f) little silt, grey-black	
				2.8-4.0 Sand (m-c) little fine sand wet grey 0 ppm	
4.0	8.0	4.0	—	0.0-2.1 Sand (m) grey 0 ppm	
				2.1-2.7 Clay, grey 0 ppm	
				2.7-4.0 Sand (f) little silt coarse 0 ppm	
				66a 1	
				66b 3.5	
				66c 7.0	

LAWGIBB GROUP

Sample/Core Log

SITE NAME
SITE LOCATION

Boring/Well SB-67 Project/No. 22000-0-0026-300 Page 1 of 1

Site Location Former Cibro Pet. Facility Island Park, NY

Drilling Started 12/5/00 Drilling Completed 12/5/00

Total Depth Drilled 8 Feet Hole Diameter 2 inches Type of Sample/ Coring Device MacroCore

Length and Diameter of Coring Device 4 Foot x 2 Inches Sampling Interval Cont feet

Land-Surface Elev. 101 feet ☒ Surveyed ☐ Estimated Datum On-Site

Drilling Fluid Used — Drilling Method Geoprobe

Drilling Contractor Zebra Environmental Driller Brent Helper Charles

Prepared By Scott Marshall Hammer Weight NA Hammer Drop NA ins.

Sample/Core Depth (feet below land surface) From	To	Core Recovery (feet)	Time/Hydraulic Pressure or Blows per 6 Inches	Sample/Core Description
0.0	4.0	2.6	—	0.0 - 1.0 Sand (f-m) little gravel (f) brown - gray 0.1 ppm
				1.0 - 1.8 Sand (m) with gravel quartz gravel (f)
				1.8 - 2.0 Black silt 0.3 ppm
				2.0 - 2.6 Sand (m) brown - gray
4.0	8.0	2.7	—	0.0 - 2.7 Sand (m-f) little silt Grey - red brown
				67a 1.5
				67b 3.0
				67c 7.0

DTW 2.5-3.0 bgs

LAWGIBB GROUP

Sample/Core Log

SITE NAME
SITE LOCATION

Boring/Well SB-68 Project/No. 22000-0-0026-300 Page 1 of 1

Site Location Former Cibro Pet. Facility Island Park, NY

Drilling Started 12/5/00 Drilling Completed 12/5/00

Total Depth Drilled 8 Feet Hole Diameter 2 inches Type of Sample/ Coring Device MACRO CORE

Length and Diameter of Coring Device 4 FOOT x 2 INCHES Sampling Interval CONT feet

Land-Surface Elev. 99.4 feet [X] Surveyed [ ] Estimated Datum ON-SITE

Drilling Fluid Used — Drilling Method Geoprobe

Drilling Contractor ZEBRA ENVIRONMENTAL Driller Brent Helper Charlie

Prepared By SCOTT Horsnall Hammer Weight NA Hammer Drop NA ins.

DTW 3.5'

Sample/Core Depth (feet below land surface) From	To	Core Recovery (feet)	Time/Hydraulic Pressure or Blows per 6 Inches	Sample/Core Description
0.0	4.0	3.5	—	0.0-1.0 Sand(f), little silt brown ϕppm
				1.0-2.6 Sand(m-c) with gravel(m-c) brown ϕppm
				2.6-3.0 SILTY SAND and clay brown ϕppm
				3.0-3.5 Sand(m) with gravel(f) grey brown
4.0	8.0	2.8	—	0.0-1.5 SILTY SAND, some gravel(f) little clay, grey brown ϕppm
				1.5-2.8 SILTY clay - SILTY SAND grey black ϕppm
				68a 1.5
				68b 4
				68c 7.5

LAWGIBB GROUP

Sample/Core Log

SITE NAME
SITE LOCATION

Boring/Well SB-69 Project/No. 22000-0-0026-300 Page 1 of 1

Site Location Former Cibro Pet. Facility Island PARK, NY

Drilling Started 12/5/00 Drilling Completed 12/5/00

Total Depth Drilled 8 Feet Hole Diameter 2 inches Type of Sample/ Coring Device MACRO CORE

Length and Diameter of Coring Device 4 FOOT x 2 INCHES Sampling Interval CONT feet

Land-Surface Elev. 99.9 feet ☒ Surveyed ☐ Estimated Datum ON-SITE

Drilling Fluid Used Drilling Method Geoprobe

Drilling Contractor ZEBRA ENVIRONMENTAL Driller Brent Helper Charles

Prepared By SCOTT Marshall Hammer Weight NA Hammer Drop NA ins.

Sample/Core Depth (feet below land surface) From	To	Core Recovery (feet)	Time/Hydraulic Pressure or Blows per 6 Inches	Sample/Core Description DTW ~~4.0~~ 2.5' bgs
0.0	4.0	~~4.0~~ 2.8		0.0-0.6 Sand(m) with concrete fill brown 0 ppm
				0.6-1.7 Sand(f), little silt dark grey 0 ppm
				1.7-2.0 Sand(f) Grey 0 ppm
				2.0-2.8 Sand(m-c) grey with sand(f)
4.0	8.0	3.5	-	0 ppm 2.0-2.8 Sand(m-c) gray 2.8-3.5 Sand(f) with 4 ppm silt (cinder (methane odors)
				69a 1-5
				69b 2-0
				69c 7.0

LAWGIBB GROUP

Sample/Core Log

SITE NAME
SITE LOCATION

Boring/Well SB-70 Project/No. 22000-0-0026-300 Page 1 of 1

Site Location Former Cibro Pet. Fascility Island PARK, NY

Drilling Started 12/8/00 Drilling Completed 12/8/00

Total Depth Drilled 12 Feet Hole Diameter 2 inches Type of Sample/ Coring Device MACRO CORE

Length and Diameter of Coring Device 4 FOOT x 2 INCHES Sampling Interval CONT feet

Land-Surface Elev. 150 feet ☒ Surveyed ☐ Estimated Datum ON SITE

Drilling Fluid Used — Drilling Method Geoprobe

Drilling Contractor ZEBRA ENVIRONMENTAL Driller Brent Helper Rocky

Prepared By SCOTT MARSHALL Hammer Weight NA Hammer Drop NA ins.

Sample/Core Depth (feet below land surface) From	To	Core Recovery (feet)	Time/Hydraulic Pressure or Blows per 6 Inches	Sample/Core Description DTW 3.0'bgs
0.0	4.0	2.9	—	0.0-0.6 Sand (m) brown
				1-2 ppm
				0.6-1.4 Sand (m) grey-brown
				1.9-2.9 Sand (m) black staining
				water odor 15ppm
4.0	8.0	3.0	—	0.1-2.0 SAA 20-30 ppm
				2.0-3.0 sand (c) grey ~~brown~~
				mod. odor 20 ppm
8	12	1		Clay/Silt Red brown
				methane odor
				70a 1.5
				70b 3.5
				70c 8

SLACKE TEST BORING, INC.

Subsurface Soils & Foundation Explorations

P.O. BOX 64, KINGS PARK, LONG ISLAND, NEW YORK 11754 • (631) 234-3592 • FAX (631) 234-3439

Sally Ann Slacke, *President/CEO*

Date December 7, 2000

Client Blue Water

Mr. Patrick Haugen

Phone 631/249-1872 x 268

Job No. 00-126 Boring No. 1A

Job Location Blue Water, Island Park, New York

Datum

Ground Surface Elevation Water Level is 3 feet below Ground Surface

DEPTH From	DEPTH To	CLASSIFICATION OF SOIL	30" Blows Sample Spoon	Penetration of Spoon in Inches	
Ground Surface	1'6"	Brown Sand, Silt, Gravel (PROBABLE FILL)			DRILLING METHOD: HOLLOW STEM AUGERS 2¼" I.D.
1'6"	3'	Medium/Fine Brown Sand, some Small/Fine Gravel, trace Silt			
3'	8'	Medium/Fine Brown Sand, some Small/Fine Gravel, trace Medium Gravel, some Gray Organic Silt			
		Sample #1 @ 2'6" to 4'	10-10-8	18"	
		Sample #2 @ 5' to 6'6"	6-4-2	18"	
8'	24'6"	Dark Gray/Dark Brown Organic Silt, some Bog, trace Fine Gray Sand, some Shells			
		Sample #3 @ 10' to 11'6"	1-2-3	18"	
		Sample #4 @ 15' to 16'6"	1-P-1	18"	
		Sample #5 @ 20' to 21'6"	1-1-1	18"	
		Sample #6 @ 21'6" to 23'	1-1-2	18"	
24'6"	30'	Medium/Fine Brown/Grayish Brown Sand & Silt, trace Medium/Fine Gravel			
		Sample #7 @ 25' to 26'6"	12-14-20	18"	
		Sample #8 @ 28'6" to 30'	15-17-22	18"	

SLACKE TEST BORING, INC.

Subsurface Soils & Foundation Explorations

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Sally Ann Slacke, *President/CEO*

Date December 7, 2000

Client Blue Water

Mr. Patrick Haugen
Phone 631/249-1872 x 268

Job No. 00-126 Boring No. 2A

Job Location Blue Water, Island Park, New York

Datum

Ground Surface Elevation Water Level is 2' 2" below Ground Surface

DEPTH From	DEPTH To	CLASSIFICATION OF SOIL	30" Blows Sample Spoon	Penetration of Spoon in Inches	
Ground Surface	1'6"	Brown Sand, Silt & Gravel (PROBABLE FILL)			DRILLING METHOD: HOLLOW STEM AUGERS 2¼" I.D.
1'6"	3'	Medium/Fine Brown Sand, some Small/Fine Gravel, trace Silt			
3'	8'	Dark Brown Organic Silt & Bog, trace Shells			
		Sample #1 @ 2'6" to 4'	14-4-2	18"	
		Sample #2 @ 5' to 6'6"	1-1-1	18"	
8'	26'	Dark Gray/Dark Brown Organic Silt, some Bog, some Fine Gray Sand, trace Shells			
		Sample #3 @ 10' to 11'6"	1-1-1	18"	
		Sample #4 @ 15' to 16'6"	1-P-2	18"	
		Sample #5 @ 20' to 21'6"	1-2-2	18"	
		Sample #6 @ 25' to 26'6"	6-8-15	18"	
26'	30'	Medium/Fine Brown/Grayish Brown Sand, some Silt, some Small/Fine Gravel, trace Medium Gravel			
		Sample #6A @ 25' to 26'6"	6-8-15		
		Sample #7 @ 28'6" to 30'	12-15-19	18"	
		END OF BORING 30 FEET			

SLACKE TEST BORING, INC.

Subsurface Soils & Foundation Explorations

P.O. BOX 64, KINGS PARK, LONG ISLAND, NEW YORK 11754 • (631) 234-3592 • FAX (631) 234-3439

Sally Ann Slacke, *President/CEO*

Date December 7, 2000

Client Blue Water

Mr. Patrick Haugen

Phone 631/249-1872 x 268

Job No. 00-126 Boring No. 3A

Job Location Blue Water, Island Park, New York

Datum

Ground Surface Elevation Water Level is 2 feet below Ground Surface

DEPTH From	DEPTH To	CLASSIFICATION OF SOIL	30" Blows Sample Spoon	Penetration of Spoon in Inches	
Ground Surface	3'6"	Brown Sand, Silt, Gravel, trace Concrete (FILL)			DRILLING METHOD: HOLLOW STEM AUGERS 2¼" I.D.
3'6"	8'	Fine Dark Brown/Gray Sand, some Gravel, some Dark Gray Organic Silt, trace Bog, trace Shells			
		Sample #1 @ 2'6" to 4'	8-9-6	18"	
		Sample #2 @ 5' to 6'6"	5-6-4	18"	
8'	16'6"	Fine Gray Sand & Dark Gray Organic Silt, trace Bog, trace Fine Gravel, trace Shells			
		Sample #3 @ 10' to 11'6"	1-1-P	18"	
		Sample #4 @ 15' to 16'6"	P-1-P		
16'6"	24'	Dark Gray/Dark Brown Organic Silt, some Bog, trace Shells			
		Sample #5 @ 20' to 21'6"	1-P-P		
		Sample #6 @ 21'6" to 23'	P-1-1		
24'	30'	Medium/Fine Brown Sand, trace Small/Fine Gravel, some Silt			
		Sample #7 @ 25' to 26'6"	18-22-28	18"	
		Sample #8 @ 28'6" to 30'	16-20-25	18"	
		END OF BORING 30 FEET			

APPENDIX B

Environmental Testing Laboratories, Inc.

208 Route 109, Farmingdale NY 11735
Phone - 631-249-1456 Fax - 631-249-8344

12/08/2000

Custody Document: K9581

Received: 12/04/2000 16:35
Sampled by: Scott Horsnall

Client: Blue Waters (11260)

1610 New Highway
Farmingdale,
NY 11735

Project: Island Park

Washington Avenue
Island Park,
NY

Manager: Tom Spatafora

Respectfully submitted,

Laboratory Director

NYS Lab ID # 10969
NJ Cert. # 73812
CT Cert. # PH0645
MA Cert. # NY061
PA Cert. # 68-535
VA Cert. # 108
NH Cert. # 252592-BA
RI Cert. # 161

Environmental Testing Laboratories, Inc.
208 Route 109, Farmingdale NY 11735
Phone - 631-249-1456 Fax - 631-249-8344

12/07/2000

Total Petroleum Hydrocarbons-EPA 418.1

Sample: K9581-1
Client Sample ID: SB-14a
Matrix: Soil
Remarks:
Analyzed Date: 12/06/2000
Type: Split Spoon
Collected: 12/04/2000 09:30
% Solid: 87.2%

Cas No	Analyte	MDL	Result	Units	Q
	Total Rec.Petr. Hydrocarbons	3.42	154	ppm	

Sample: K9581-2
Client Sample ID: SB-14b
Matrix: Soil
Remarks:
Analyzed Date: 12/06/2000
Type: Split Spoon
Collected: 12/04/2000 09:35
% Solid: 86.1%

Cas No	Analyte	MDL	Result	Units	Q
	Total Rec.Petr. Hydrocarbons	3.42	3020	ppm	

Sample: K9581-3
Client Sample ID: SB-14c
Matrix: Soil
Remarks:
Analyzed Date: 12/06/2000
Type: Split Spoon
Collected: 12/04/2000 09:40
% Solid: 47.4%

Cas No	Analyte	MDL	Result	Units	Q
	Total Rec.Petr. Hydrocarbons	3.42	239	ppm	

Sample: K9581-4
Client Sample ID: SB-16a
Matrix: Soil
Remarks:
Analyzed Date: 12/06/2000
Type: Split Spoon
Collected: 12/04/2000 09:50
% Solid: 89.5%

Cas No	Analyte	MDL	Result	Units	Q
	Total Rec.Petr. Hydrocarbons	3.42	2590	ppm	

Environmental Testing Laboratories, Inc.

208 Route 109, Farmingdale NY 11735

Phone - 631-249-1456 Fax - 631-249-8344

12/07/2000

Total Petroleum Hydrocarbons-EPA 418.1

Sample: K9581-5
Client Sample ID: SB-16b
Matrix: Soil
Remarks:
Analyzed Date: 12/06/2000

Type: Split Spoon

Collected: 12/04/2000 09:53
% Solid: 86.2%

Cas No	Analyte	MDL	Result	Units	Q
	Total Rec.Petr. Hydrocarbons	3.42	2840	ppm	

Sample: K9581-6
Client Sample ID: SB-16c
Matrix: Soil
Remarks:
Analyzed Date: 12/06/2000

Type: Split Spoon

Collected: 12/04/2000 09:55
% Solid: 41.7%

Cas No	Analyte	MDL	Result	Units	Q
	Total Rec.Petr. Hydrocarbons	3.42	82.4	ppm	

Sample: K9581-7
Client Sample ID: SB-17a
Matrix: Soil
Remarks:
Analyzed Date: 12/06/2000

Type: Split Spoon

Collected: 12/04/2000 10:25
% Solid: 90%

Cas No	Analyte	MDL	Result	Units	Q
	Total Rec.Petr. Hydrocarbons	3.42	652	ppm	

Sample: K9581-8
Client Sample ID: SB-17b
Matrix: Soil
Remarks:
Analyzed Date: 12/06/2000

Type: Split Spoon

Collected: 12/04/2000 10:28
% Solid: 83.8%

Cas No	Analyte	MDL	Result	Units	Q
	Total Rec.Petr. Hydrocarbons	3.42	2240	ppm	

Environmental Testing Laboratories, Inc.

208 Route 109, Farmingdale NY 11735

Phone - 631-249-1456 Fax - 631-249-8344

12/07/2000

Total Petroleum Hydrocarbons-EPA 418.1

Sample: K9581-9

Client Sample ID: SB-17c

Matrix: Soil

Remarks:

Analyzed Date: 12/06/2000

Type: Split Spoon

Collected: 12/04/2000 10:30

% Solid: 82.1%

Cas No	Analyte	MDL	Result	Units	Q
	Total Rec.Petr. Hydrocarbons	3.42	39.4	ppm	

Sample: K9581-10

Client Sample ID: SB-19a

Matrix: Soil

Remarks:

Analyzed Date: 12/06/2000

Type: Split Spoon

Collected: 12/04/2000 11:10

% Solid: 88.1%

Cas No	Analyte	MDL	Result	Units	Q
	Total Rec.Petr. Hydrocarbons	3.42	67.8	ppm	

Sample: K9581-11

Client Sample ID: SB-19b

Matrix: Soil

Remarks:

Analyzed Date: 12/06/2000

Type: Split Spoon

Collected: 12/04/2000 11:13

% Solid: 82.6%

Cas No	Analyte	MDL	Result	Units	Q
	Total Rec.Petr. Hydrocarbons	3.42	2690	ppm	

Sample: K9581-12

Client Sample ID: SB-19c

Matrix: Soil

Remarks:

Analyzed Date: 12/06/2000

Type: Split Spoon

Collected: 12/04/2000 11:15

% Solid: 45.7%

Cas No	Analyte	MDL	Result	Units	Q
	Total Rec.Petr. Hydrocarbons	3.42	74.8	ppm	

Environmental Testing Laboratories, Inc.
208 Route 109, Farmingdale NY 11735
Phone - 631-249-1456 Fax - 631-249-8344

12/07/2000

Total Petroleum Hydrocarbons-EPA 418.1

Sample: K9581-13
Client Sample ID: SB-20b
Matrix: Soil
Remarks:
Analyzed Date: 12/06/2000

Type: Split Spoon

Collected: 12/04/2000 13:15
% Solid: 88.6%

Cas No	Analyte	MDL	Result	Units	Q
	Total Rec.Petr. Hydrocarbons	3.42	2400	ppm	

Sample: K9581-14
Client Sample ID: SB-20c
Matrix: Soil
Remarks:
Analyzed Date: 12/06/2000

Type: Split Spoon

Collected: 12/04/2000 13:20
% Solid: 61.6%

Cas No	Analyte	MDL	Result	Units	Q
	Total Rec.Petr. Hydrocarbons	3.42	40.8	ppm	

Environmental Testing Laboratories, Inc.

208 Route 109, Farmingdale NY 11735

Phone - 631-249-1456 Fax - 631-249-8344

12/12/2000

Custody Document: K9582

Received: 12/04/2000 16:35
Sampled by: Scott Horsnall

Client: Blue Waters (11260)

1610 New Highway
Farmingdale,
NY 11735

Project: Island Park

Washington Avenue
Island Park,
NY

Manager: Tom Spatafora

Respectfully submitted,

Laboratory Director

NYS Lab ID # 10969
NJ Cert. # 73812
CT Cert. # PH0645
MA Cert. # NY061
PA Cert. # 68-535
VA Cert. # 108
NH Cert. # 252592-BA
RI Cert. # 161

Environmental Testing Laboratories, Inc.

208 Route 109, Farmingdale NY 11735

Phone - 631-249-1456 Fax - 631-249-8344

12/12/2000

Total Petroleum Hydrocarbons-EPA 418.1

Sample: K9582-1
Client Sample ID: SB-18b
Matrix: Soil
Remarks:
Analyzed Date: 12/06/2000

Type: Split Spoon

Collected: 12/04/2000 13:50
% Solid: 85.9%

Cas No	Analyte	MDL	Result	Units	Q
	Total Rec.Petr. Hydrocarbons	3.42	2910	ppm	

Sample: K9582-2
Client Sample ID: SB-18c
Matrix: Soil
Remarks:
Analyzed Date: 12/06/2000

Type: Split Spoon

Collected: 12/04/2000 13:55
% Solid: 66.4%

Cas No	Analyte	MDL	Result	Units	Q
	Total Rec.Petr. Hydrocarbons	3.42	28.7	ppm	

Sample: K9582-3
Client Sample ID: SB-32b
Matrix: Soil
Remarks:
Analyzed Date: 12/06/2000

Type: Split Spoon

Collected: 12/04/2000 14:25
% Solid: 87.9%

Cas No	Analyte	MDL	Result	Units	Q
	Total Rec.Petr. Hydrocarbons	3.42	2520	ppm	

Sample: K9582-4
Client Sample ID: SB-32c
Matrix: Soil
Remarks:
Analyzed Date: 12/06/2000

Type: Split Spoon

Collected: 12/04/2000 14:30
% Solid: 32.2%

Cas No	Analyte	MDL	Result	Units	Q
	Total Rec.Petr. Hydrocarbons	3.42	185	ppm	

Environmental Testing Laboratories, Inc.

208 Route 109, Farmingdale NY 11735

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12/12/2000

Total Petroleum Hydrocarbons-EPA 418.1

Sample: K9582-5
Client Sample ID: SB-30b
Matrix: Soil
Remarks:
Analyzed Date: 12/06/2000

Type: Split Spoon

Collected: 12/04/2000 15:10
% Solid: 81.1%

Cas No	Analyte	MDL	Result	Units	Q
	Total Rec.Petr. Hydrocarbons	3.42	1950	ppm	

Sample: K9582-6
Client Sample ID: SB-30c
Matrix: Soil
Remarks:
Analyzed Date: 12/06/2000

Type: Split Spoon

Collected: 12/04/2000 15:15
% Solid: 78.6%

Cas No	Analyte	MDL	Result	Units	Q
	Total Rec.Petr. Hydrocarbons	3.42	52.5	ppm	

Sample: K9582-7
Client Sample ID: SB-30d
Matrix: Soil
Remarks:
Analyzed Date: 12/06/2000

Type: Split Spoon

Collected: 12/04/2000 15:25
% Solid: 64.1%

Cas No	Analyte	MDL	Result	Units	Q
	Total Rec.Petr. Hydrocarbons	3.42	31.1	ppm	

Sample: K9582-8
Client Sample ID: FB-120400
Matrix: Liquid
Remarks:
Analyzed Date: 12/08/2000

Type: Grab

Collected: 12/04/2000 15:30

Cas No	Analyte	MDL	Result	Units	Q
	Total Rec.Petr. Hydrocarbons	0.26	3.17	ppm	

Environmental Testing Laboratories, Inc.
208 Route 109, Farmingdale NY 11735
Phone - 631-249-1456 Fax - 631-249-8344

12/12/2000

ORGANIC METHOD QUALIFIERS

Q - Qualifier - specified entries and their meanings are as follows:

U - The analytical result is a non-detect.

J - Indicates an estimated value. The concentration reported was detected below the Method Detection Limit.

B - The analyte was found in the associated method blank as well as the sample. It indicates possible/probable blank contamination and warns the data user to take appropriate action.

E - The concentration of the analyte exceeded the calibration range of the instrument.

D - This flag identifies all compounds identified in an analysis at a secondary dilution.

INORGANIC METHOD QUALIFIERS

C - (Concentration) qualifiers are as follows:

B - Entered if the reported value was obtained from a reading that was less than the Contract Required Detection Limit (CRDL) but greater than or equal to the Instrument Detection Limit (IDL).

U - Entered when the analyte was analyzed for, but not detected.

J - Indicates an estimated value. The concentration reported was detected below the Method Detection Limit.

Q - Qualifier specific entries and their meanings are as follows:

E - Reported value is estimated because of the presence of interferences.

M - (Method) qualifiers are as follows:

A - Flame AA

AS - Semi-automated Spectrophotometric

AV - Automated Cold Vapor AA

C - Manual Spectrophotometric

F - Furnace AA

NR - when the analyte is not required to be analyzed.

P - ICP

T - Titrimetric

Environmental Testing Laboratories, Inc.

208 Route 109, Farmingdale NY 11735

Phone - 631-249-1456 Fax - 631-249-8344

12/12/2000

Custody Document: K9584

Received: 12/05/2000 16:30
Sampled by: Scott Horsnall

Client: Blue Waters (11260)

1610 New Highway
Farmingdale,
NY 11735

Project: Island Park

Washington Avenue
Island Park,
NY

Manager: Tom Spatafora

Respectfully submitted,

Laboratory Director

NYS Lab ID # 10969
NJ Cert. # 73812
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PA Cert. # 68-535
VA Cert. # 108
NH Cert. # 252592-BA
RI Cert. # 161

Environmental Testing Laboratories, Inc.
208 Route 109, Farmingdale NY 11735
Phone - 631-249-1456 Fax - 631-249-8344

12/12/2000

Total Petroleum Hydrocarbons-EPA 418.1

Sample: K9584-1
Client Sample ID: SB-67a
Matrix: Soil
Remarks:
Analyzed Date: 12/07/2000
Type: Split Spoon
Collected: 12/05/2000 10:10
% Solid: 90.6%

Cas No	Analyte	MDL	Result	Units	Q
	Total Rec.Petr. Hydrocarbons	3.42	685	ppm	

Sample: K9584-2
Client Sample ID: SB-67b
Matrix: Soil
Remarks:
Analyzed Date: 12/07/2000
Type: Split Spoon
Collected: 12/05/2000 10:13
% Solid: 85.5%

Cas No	Analyte	MDL	Result	Units	Q
	Total Rec.Petr. Hydrocarbons	3.42	1250	ppm	

Sample: K9584-3
Client Sample ID: SB-67c
Matrix: Soil
Remarks:
Analyzed Date: 12/07/2000
Type: Split Spoon
Collected: 12/05/2000 10:16
% Solid: 81.9%

Cas No	Analyte	MDL	Result	Units	Q
	Total Rec.Petr. Hydrocarbons	3.42	62.2	ppm	

Sample: K9584-4
Client Sample ID: SB-64a
Matrix: Soil
Remarks:
Analyzed Date: 12/07/2000
Type: Split Spoon
Collected: 12/05/2000 10:25
% Solid: 84.5%

Cas No	Analyte	MDL	Result	Units	Q
	Total Rec.Petr. Hydrocarbons	3.42	1810	ppm	

Environmental Testing Laboratories, Inc.

208 Route 109, Farmingdale NY 11735
Phone - 631-249-1456 Fax - 631-249-8344

12/12/2000

Total Petroleum Hydrocarbons-EPA 418.1

Sample: K9584-5
Client Sample ID: SB-64b
Matrix: Soil
Remarks:
Analyzed Date: 12/07/2000

Type: Split Spoon

Collected: 12/05/2000 10:34
% Solid: 80.6%

Cas No	Analyte	MDL	Result	Units	Q
	Total Rec.Petr. Hydrocarbons	3.42	116	ppm	

Sample: K9584-6
Client Sample ID: SB-64c
Matrix: Soil
Remarks:
Analyzed Date: 12/07/2000

Type: Split Spoon

Collected: 12/05/2000 10:36
% Solid: 76.8%

Cas No	Analyte	MDL	Result	Units	Q
	Total Rec.Petr. Hydrocarbons	3.42	89.2	ppm	

Sample: K9584-7
Client Sample ID: SB-69a
Matrix: Soil
Remarks:
Analyzed Date: 12/07/2000

Type: Split Spoon

Collected: 12/05/2000 10:55
% Solid: 72.7%

Cas No	Analyte	MDL	Result	Units	Q
	Total Rec.Petr. Hydrocarbons	3.42	817	ppm	

Sample: K9584-8
Client Sample ID: SB-69b
Matrix: Soil
Remarks:
Analyzed Date: 12/07/2000

Type: Split Spoon

Collected: 12/05/2000 10:58
% Solid: 81.2%

Cas No	Analyte	MDL	Result	Units	Q
	Total Rec.Petr. Hydrocarbons	3.42	52.2	ppm	

Environmental Testing Laboratories, Inc.
208 Route 109, Farmingdale NY 11735
Phone - 631-249-1456 Fax - 631-249-8344

12/12/2000

Total Petroleum Hydrocarbons-EPA 418.1

Sample: K9584-9
Client Sample ID: SB-69c
Matrix: Soil
Remarks:
Analyzed Date: 12/07/2000
Type: Split Spoon
Collected: 12/05/2000 11:00
% Solid: 77.6%

Cas No	Analyte	MDL	Result	Units	Q
	Total Rec.Petr. Hydrocarbons	3.42	29.5	ppm	

Sample: K9584-10
Client Sample ID: SB-65b
Matrix: Soil
Remarks:
Analyzed Date: 12/07/2000
Type: Split Spoon
Collected: 12/05/2000 11:25
% Solid: 81.5%

Cas No	Analyte	MDL	Result	Units	Q
	Total Rec.Petr. Hydrocarbons	3.42	35.0	ppm	

Sample: K9584-11
Client Sample ID: SB-65c
Matrix: Soil
Remarks:
Analyzed Date: 12/07/2000
Type: Split Spoon
Collected: 12/05/2000 11:30
% Solid: 77.6%

Cas No	Analyte	MDL	Result	Units	Q
	Total Rec.Petr. Hydrocarbons	3.42	52.0	ppm	

Sample: K9584-12
Client Sample ID: SB-51a
Matrix: Soil
Remarks:
Analyzed Date: 12/07/2000
Type: Split Spoon
Collected: 12/05/2000 11:40
% Solid: 83.6%

Cas No	Analyte	MDL	Result	Units	Q
	Total Rec.Petr. Hydrocarbons	3.42	45.0	ppm	

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Total Petroleum Hydrocarbons-EPA 418.1

Sample: K9584-13
Client Sample ID: SB-51b
Matrix: Soil
Remarks:
Analyzed Date: 12/07/2000

Type: Split Spoon

Collected: 12/05/2000 11:45
% Solid: 92.2%

Cas No	Analyte	MDL	Result	Units	Q
	Total Rec.Petr. Hydrocarbons	3.42	14.8	ppm	

Sample: K9584-14
Client Sample ID: SB-51c
Matrix: Soil
Remarks:
Analyzed Date: 12/07/2000

Type: Split Spoon

Collected: 12/05/2000 11:48
% Solid: 80.7%

Cas No	Analyte	MDL	Result	Units	Q
	Total Rec.Petr. Hydrocarbons	3.42	31.4	ppm	

Sample: K9584-15
Client Sample ID: FB-120500
Matrix: Liquid
Remarks:
Analyzed Date: 12/08/2000

Type: Blank

Collected: 12/05/2000 12:30

Cas No	Analyte	MDL	Result	Units	Q
	Total Rec.Petr. Hydrocarbons	0.26	2.36	ppm	

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12/12/2000

ORGANIC METHOD QUALIFIERS

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J - Indicates an estimated value. The concentration reported was detected below the Method Detection Limit.

B - The analyte was found in the associated method blank as well as the sample. It indicates possible/probable blank contamination and warns the data user to take appropriate action.

E - The concentration of the analyte exceeded the calibration range of the instrument.

D - This flag identifies all compounds identified in an analysis at a secondary dilution.

INORGANIC METHOD QUALIFIERS

C - (Concentration) qualifiers are as follows:

B - Entered if the reported value was obtained from a reading that was less than the Contract Required Detection Limit (CRDL) but greater than or equal to the Instrument Detection Limit (IDL).

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J - Indicates an estimated value. The concentration reported was detected below the Method Detection Limit.

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E - Reported value is estimated because of the presence of interferences.

M - (Method) qualifiers are as follows:

A - Flame AA

AS - Semi-automated Spectrophotometric

AV - Automated Cold Vapor AA

C - Manual Spectrophotometric

F - Furnace AA

NR - when the analyte is not required to be analyzed.

P - ICP

T - Titrimetric

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12/12/2000

Custody Document: K9589

Received: 12/05/2000 16:30
Sampled by: Scott Horsnall

Client: Blue Waters (11260)

1610 New Highway
Farmingdale,
NY 11735

Project: Island Park

Washington Avenue
Island Park,
NY

Manager: Tom Spatafora

Respectfully submitted,

Laboratory Director

NYS Lab ID # 10969
NJ Cert. # 73812
CT Cert. # PH0645
MA Cert. # NY061
PA Cert. # 68-535
VA Cert. # 108
NH Cert. # 252592-BA
RI Cert. # 161

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12/12/2000

Total Petroleum Hydrocarbons-EPA 418.1

Sample: K9589-1
Client Sample ID: SB-62a
Matrix: Soil
Type: Split Spoon
Collected: 12/05/2000 13:10
% Solid: 91.2%
Remarks:
Analyzed Date: 12/08/2000

Cas No	Analyte	MDL	Result	Units	Q
	Total Rec.Petr. Hydrocarbons	3.42	**2190**	ppm	

Sample: K9589-2
Client Sample ID: SB-62b
Matrix: Soil
Type: Split Spoon
Collected: 12/05/2000 13:15
% Solid: 87.4%
Remarks:
Analyzed Date: 12/08/2000

Cas No	Analyte	MDL	Result	Units	Q
	Total Rec.Petr. Hydrocarbons	3.42	**2570**	ppm	

Sample: K9589-3
Client Sample ID: SB-62c
Matrix: Soil
Type: Split Spoon
Collected: 12/05/2000 13:20
% Solid: 79.3%
Remarks:
Analyzed Date: 12/08/2000

Cas No	Analyte	MDL	Result	Units	Q
	Total Rec.Petr. Hydrocarbons	3.42	**58.4**	ppm	

Sample: K9589-4
Client Sample ID: SB-60b
Matrix: Soil
Type: Split Spoon
Collected: 12/05/2000 13:55
% Solid: 79.9%
Remarks:
Analyzed Date: 12/08/2000

Cas No	Analyte	MDL	Result	Units	Q
	Total Rec.Petr. Hydrocarbons	3.42	**452**	ppm	

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12/12/2000

Total Petroleum Hydrocarbons-EPA 418.1

Sample: K9589-5

Client Sample ID: SB-60c
Matrix: Soil
Remarks:
Analyzed Date: 12/08/2000

Type: Split Spoon

Collected: 12/05/2000 14:00
% Solid: 77.6%

Cas No	Analyte	MDL	Result	Units	Q
	Total Rec.Petr. Hydrocarbons	3.42	140	ppm	

Sample: K9589-6

Client Sample ID: SB-68a
Matrix: Soil
Remarks:
Analyzed Date: 12/08/2000

Type: Split Spoon

Collected: 12/05/2000 14:15
% Solid: 93.6%

Cas No	Analyte	MDL	Result	Units	Q
	Total Rec.Petr. Hydrocarbons	3.42	290	ppm	

Sample: K9589-7

Client Sample ID: SB-68b
Matrix: Soil
Remarks:
Analyzed Date: 12/08/2000

Type: Split Spoon

Collected: 12/05/2000 14:20
% Solid: 76.6%

Cas No	Analyte	MDL	Result	Units	Q
	Total Rec.Petr. Hydrocarbons	3.42	808	ppm	

Sample: K9589-8

Client Sample ID: SB-68c
Matrix: Soil
Remarks:
Analyzed Date: 12/08/2000

Type: Split Spoon

Collected: 12/05/2000 14:24
% Solid: 86.5%

Cas No	Analyte	MDL	Result	Units	Q
	Total Rec.Petr. Hydrocarbons	3.42	2230	ppm	

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12/12/2000

Total Petroleum Hydrocarbons-EPA 418.1

Sample: K9589-9
Client Sample ID: SB-58a
Matrix: Soil
Remarks:
Analyzed Date: 12/08/2000
Type: Split Spoon
Collected: 12/05/2000 14:40
% Solid: 88%

Cas No	Analyte	MDL	Result	Units	Q
	Total Rec.Petr. Hydrocarbons	3.42	83.0	ppm	

Sample: K9589-10
Client Sample ID: SB-58b
Matrix: Soil
Remarks:
Analyzed Date: 12/08/2000
Type: Split Spoon
Collected: 12/05/2000 14:45
% Solid: 89.9%

Cas No	Analyte	MDL	Result	Units	Q
	Total Rec.Petr. Hydrocarbons	3.42	1970	ppm	

Sample: K9589-11
Client Sample ID: SB-58c
Matrix: Soil
Remarks:
Analyzed Date: 12/08/2000
Type: Split Spoon
Collected: 12/05/2000 14:50
% Solid: 39.5%

Cas No	Analyte	MDL	Result	Units	Q
	Total Rec.Petr. Hydrocarbons	3.42	241	ppm	

Sample: K9589-12
Client Sample ID: SB-48a
Matrix: Soil
Remarks:
Analyzed Date: 12/08/2000
Type: Split Spoon
Collected: 12/05/2000 15:05
% Solid: 89.4%

Cas No	Analyte	MDL	Result	Units	Q
	Total Rec.Petr. Hydrocarbons	3.42	1810	ppm	

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12/12/2000

Total Petroleum Hydrocarbons-EPA 418.1

Sample: K9589-13
Client Sample ID: SB-48b
Matrix: Soil
Remarks:
Analyzed Date: 12/08/2000

Type: Split Spoon

Collected: 12/05/2000 15:08
% Solid: 91.7%

Cas No	Analyte	MDL	Result	Units	Q
	Total Rec.Petr. Hydrocarbons	3.42	2190	ppm	

Sample: K9589-14
Client Sample ID: SB-48c
Matrix: Soil
Remarks:
Analyzed Date: 12/08/2000

Type: Split Spoon

Collected: 12/05/2000 15:12
% Solid: 35.7%

Cas No	Analyte	MDL	Result	Units	Q
	Total Rec.Petr. Hydrocarbons	3.42	2200	ppm	

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12/12/2000

ORGANIC METHOD QUALIFIERS

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E - The concentration of the analyte exceeded the calibration range of the instrument.

D - This flag identifies all compounds identified in an analysis at a secondary dilution.

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AV - Automated Cold Vapor AA

C - Manual Spectrophotometric

F - Furnace AA

NR - when the analyte is not required to be analyzed.

P - ICP

T - Titrimetric

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12/11/2000

Custody Document: K9583

Received: 12/05/2000 16:30
Sampled by: Scott Horsnall

Client: Blue Waters (11260)

1610 New Highway
Farmingdale,
NY 11735

Project: Island Park

Washington Avenue
Island Park,
NY

Manager: Tom Spatafora

Respectfully submitted,

Laboratory Director

NYS Lab ID # 10969
NJ Cert. # 73812
CT Cert. # PH0645
MA Cert. # NY061
PA Cert. # 68-535
VA Cert. # 108
NH Cert. # 252592-BA
RI Cert. # 161

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12/11/2000

Total Petroleum Hydrocarbons-EPA 418.1

Sample: K9583-1

Client Sample ID: SB-28a
Matrix: Soil
Remarks:
Analyzed Date: 12/07/2000

Type: Split Spoon

Collected: 12/05/2000 08:10
% Solid: 90.3%

Cas No	Analyte	MDL	Result	Units	Q
	Total Rec.Petr. Hydrocarbons	3.42	1610	ppm	

Sample: K9583-2

Client Sample ID: SB-28b
Matrix: Soil
Remarks:
Analyzed Date: 12/07/2000

Type: Split Spoon

Collected: 12/05/2000 08:12
% Solid: 86.3%

Cas No	Analyte	MDL	Result	Units	Q
	Total Rec.Petr. Hydrocarbons	3.42	2460	ppm	

Sample: K9583-3

Client Sample ID: SB-28c
Matrix: Soil
Remarks:
Analyzed Date: 12/07/2000

Type: Split Spoon

Collected: 12/05/2000 08:20
% Solid: 43.3%

Cas No	Analyte	MDL	Result	Units	Q
	Total Rec.Petr. Hydrocarbons	3.42	130	ppm	

Sample: K9583-4

Client Sample ID: SB-53a
Matrix: Soil
Remarks:
Analyzed Date: 12/07/2000

Type: Split Spoon

Collected: 12/05/2000 08:30
% Solid: 87.5%

Cas No	Analyte	MDL	Result	Units	Q
	Total Rec.Petr. Hydrocarbons	3.42	495	ppm	

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12/11/2000

Total Petroleum Hydrocarbons-EPA 418.1

Sample: K9583-5
Client Sample ID: SB-53b
Matrix: Soil
Remarks:
Analyzed Date: 12/07/2000

Type: Split Spoon

Collected: 12/05/2000 08:35
% Solid: 80.2%

Cas No	Analyte	MDL	Result	Units	Q
	Total Rec.Petr. Hydrocarbons	3.42	26.4	ppm	

Sample: K9583-6
Client Sample ID: SB-53c
Matrix: Soil
Remarks:
Analyzed Date: 12/07/2000

Type: Split Spoon

Collected: 12/05/2000 08:45
% Solid: 50.5%

Cas No	Analyte	MDL	Result	Units	Q
	Total Rec.Petr. Hydrocarbons	3.42	81.0	ppm	

Sample: K9583-7
Client Sample ID: SB-54a
Matrix: Soil
Remarks:
Analyzed Date: 12/07/2000

Type: Split Spoon

Collected: 12/05/2000 09:00
% Solid: 88.3%

Cas No	Analyte	MDL	Result	Units	Q
	Total Rec.Petr. Hydrocarbons	3.42	69.6	ppm	

Sample: K9583-8
Client Sample ID: SB-54b
Matrix: Soil
Remarks:
Analyzed Date: 12/07/2000

Type: Split Spoon

Collected: 12/05/2000 09:05
% Solid: 80.3%

Cas No	Analyte	MDL	Result	Units	Q
	Total Rec.Petr. Hydrocarbons	3.42	28.4	ppm	

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12/11/2000

Total Petroleum Hydrocarbons-EPA 418.1

Sample: K9583-9
Client Sample ID: SB-54c
Matrix: Soil
Remarks:
Analyzed Date: 12/07/2000
Type: Split Spoon
Collected: 12/05/2000 09:10
% Solid: 77.4%

Cas No	Analyte	MDL	Result	Units	Q
	Total Rec.Petr. Hydrocarbons	3.42	**36.8**	ppm	

Sample: K9583-10
Client Sample ID: SB-55a
Matrix: Soil
Remarks:
Analyzed Date: 12/07/2000
Type: Split Spoon
Collected: 12/05/2000 09:25
% Solid: 88%

Cas No	Analyte	MDL	Result	Units	Q
	Total Rec.Petr. Hydrocarbons	3.42	**172**	ppm	

Sample: K9583-11
Client Sample ID: SB-55b
Matrix: Soil
Remarks:
Analyzed Date: 12/07/2000
Type: Split Spoon
Collected: 12/05/2000 09:27
% Solid: 77.9%

Cas No	Analyte	MDL	Result	Units	Q
	Total Rec.Petr. Hydrocarbons	3.42	**21.9**	ppm	

Sample: K9583-12
Client Sample ID: SB-55c
Matrix: Soil
Remarks:
Analyzed Date: 12/07/2000
Type: Split Spoon
Collected: 12/05/2000 09:30
% Solid: 81.8%

Cas No	Analyte	MDL	Result	Units	Q
	Total Rec.Petr. Hydrocarbons	3.42	**38.8**	ppm	

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12/11/2000

Total Petroleum Hydrocarbons-EPA 418.1

Sample: K9583-13
Client Sample ID: SB-99a
Matrix: Soil
Remarks:
Analyzed Date: 12/07/2000

Type: Split Spoon

Collected: 12/05/2000 09:50
% Solid: 88.8%

Cas No	Analyte	MDL	Result	Units	Q
	Total Rec.Petr. Hydrocarbons	3.42	**2410**	ppm	

Sample: K9583-14
Client Sample ID: SB-99b
Matrix: Soil
Remarks:
Analyzed Date: 12/07/2000

Type: Split Spoon

Collected: 12/05/2000 09:53
% Solid: 85.8%

Cas No	Analyte	MDL	Result	Units	Q
	Total Rec.Petr. Hydrocarbons	3.42	**37.4**	ppm	

Sample: K9583-15
Client Sample ID: SB-99c
Matrix: Soil
Remarks:
Analyzed Date: 12/07/2000

Type: Split Spoon

Collected: 12/05/2000 09:55
% Solid: 61%

Cas No	Analyte	MDL	Result	Units	Q
	Total Rec.Petr. Hydrocarbons	3.42	**44.3**	ppm	

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12/11/2000

ORGANIC METHOD QUALIFIERS

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E - The concentration of the analyte exceeded the calibration range of the instrument.

D - This flag identifies all compounds identified in an analysis at a secondary dilution.

INORGANIC METHOD QUALIFIERS

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C - Manual Spectrophotometric

F - Furnace AA

NR - when the analyte is not required to be analyzed.

P - ICP

T - Titrimetric

Environmental Testing Laboratories, Inc.

208 Route 109, Farmingdale NY 11735
Phone - 631-249-1456 Fax - 631-249-8344

12/20/2000

Custody Document: K9585

Received: 12/06/2000 16:45
Sampled by: Scott Horsnall

Client: Blue Waters (11260)

1610 New Highway
Farmingdale,
NY 11735

Project: Island Park

Washington Avenue
Island Park,
NY

Manager: Tom Spatafora

Respectfully submitted,

Laboratory Director

NYS Lab ID # 10969
NJ Cert. # 73812
CT Cert. # PH0645
MA Cert. # NY061
PA Cert. # 68-535
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NH Cert. # 252592-BA
RI Cert. # 161

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12/20/2000

Total Petroleum Hydrocarbons-EPA 418.1

Sample: K9585-1
Client Sample ID: SB-33a
Matrix: Soil
Remarks:
Analyzed Date: 12/16/2000
Type: Split Spoon
Collected: 12/06/2000 14:00
% Solid: 88.1%

Cas No	Analyte	MDL	Result	Units	Q
	Total Rec.Petr. Hydrocarbons	3.42	**2930**	ppm	

Sample: K9585-2
Client Sample ID: SB-33b
Matrix: Soil
Remarks:
Analyzed Date: 12/16/2000
Type: Split Spoon
Collected: 12/06/2000 14:03
% Solid: 80.4%

Cas No	Analyte	MDL	Result	Units	Q
	Total Rec.Petr. Hydrocarbons	3.42	**2020**	ppm	

Sample: K9585-3
Client Sample ID: SB-33c
Matrix: Soil
Remarks:
Analyzed Date: 12/16/2000
Type: Split Spoon
Collected: 12/06/2000 14:06
% Solid: 38.6%

Cas No	Analyte	MDL	Result	Units	Q
	Total Rec.Petr. Hydrocarbons	3.42	**207**	ppm	

Sample: K9585-4
Client Sample ID: SB-35a
Matrix: Soil
Remarks:
Analyzed Date: 12/16/2000
Type: Split Spoon
Collected: 12/06/2000 14:20
% Solid: 93.3%

Cas No	Analyte	MDL	Result	Units	Q
	Total Rec.Petr. Hydrocarbons	3.42	**2170**	ppm	

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12/20/2000

Total Petroleum Hydrocarbons-EPA 418.1

Sample: K9585-5

Client Sample ID: SB-35b
Matrix: Soil
Remarks:
Analyzed Date: 12/16/2000

Type: Split Spoon

Collected: 12/06/2000 14:25
% Solid: 87.8%

Cas No	Analyte	MDL	Result	Units	Q
	Total Rec.Petr. Hydrocarbons	3.42	2260	ppm	

Sample: K9585-6

Client Sample ID: SB-35c
Matrix: Soil
Remarks:
Analyzed Date: 12/16/2000

Type: Split Spoon

Collected: 12/06/2000 14:27
% Solid: 39.2%

Cas No	Analyte	MDL	Result	Units	Q
	Total Rec.Petr. Hydrocarbons	3.42	381	ppm	

Sample: K9585-7

Client Sample ID: SB-12b
Matrix: Soil
Remarks:
Analyzed Date: 12/16/2000

Type: Split Spoon

Collected: 12/06/2000 14:40
% Solid: 85.5%

Cas No	Analyte	MDL	Result	Units	Q
	Total Rec.Petr. Hydrocarbons	3.42	2360	ppm	

Sample: K9585-8

Client Sample ID: SB-12c
Matrix: Soil
Remarks:
Analyzed Date: 12/16/2000

Type: Split Spoon

Collected: 12/06/2000 14:45
% Solid: 40.3%

Cas No	Analyte	MDL	Result	Units	Q
	Total Rec.Petr. Hydrocarbons	3.42	169	ppm	

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12/20/2000

Total Petroleum Hydrocarbons-EPA 418.1

Sample: K9585-9

Client Sample ID: SB-36a
Matrix: Soil
Remarks:
Analyzed Date: 12/16/2000

Type: Split Spoon

Collected: 12/06/2000 15:00
% Solid: 91.1%

Cas No	Analyte	MDL	Result	Units	Q
	Total Rec.Petr. Hydrocarbons	3.42	2200	ppm	

Sample: K9585-10

Client Sample ID: SB-36b
Matrix: Soil
Remarks:
Analyzed Date: 12/16/2000

Type: Split Spoon

Collected: 12/06/2000 15:04
% Solid: 89.9%

Cas No	Analyte	MDL	Result	Units	Q
	Total Rec.Petr. Hydrocarbons	3.42	2410	ppm	

Sample: K9585-11

Client Sample ID: SB-36c
Matrix: Soil
Remarks:
Analyzed Date: 12/16/2000

Type: Split Spoon

Collected: 12/06/2000 15:06
% Solid: 50.5%

Cas No	Analyte	MDL	Result	Units	Q
	Total Rec.Petr. Hydrocarbons	3.42	115	ppm	

Sample: K9585-12

Client Sample ID: SB-38a
Matrix: Soil
Remarks:
Analyzed Date: 12/16/2000

Type: Split Spoon

Collected: 12/06/2000 15:20
% Solid: 87.5%

Cas No	Analyte	MDL	Result	Units	Q
	Total Rec.Petr. Hydrocarbons	3.42	2410	ppm	

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12/20/2000

Total Petroleum Hydrocarbons-EPA 418.1

Sample: K9585-13
Client Sample ID: SB-38b
Matrix: Soil
Remarks:
Analyzed Date: 12/16/2000

Type: Split Spoon

Collected: 12/06/2000 15:24
% Solid: 87.1%

Cas No	Analyte	MDL	Result	Units	Q
	Total Rec.Petr. Hydrocarbons	3.42	2340	ppm	

Sample: K9585-14
Client Sample ID: SB-38c
Matrix: Soil
Remarks:
Analyzed Date: 12/16/2000

Type: Split Spoon

Collected: 12/06/2000 15:27
% Solid: 49.7%

Cas No	Analyte	MDL	Result	Units	Q
	Total Rec.Petr. Hydrocarbons	3.42	247	ppm	

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12/20/2000

ORGANIC METHOD QUALIFIERS

Q - Qualifier - specified entries and their meanings are as follows:

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E - Reported value is estimated because of the presence of interferences.

M - (Method) qualifiers are as follows:

A - Flame AA

AS - Semi-automated Spectrophotometric

AV - Automated Cold Vapor AA

C - Manual Spectrophotometric

F - Furnace AA

NR - when the analyte is not required to be analyzed.

P - ICP

T - Titrimetric

Environmental Testing Laboratories, Inc.

208 Route 109, Farmingdale NY 11735

Phone - 631-249-1456 Fax - 631-249-8344

12/15/2000

Custody Document: K9588

Received: 12/06/2000 16:45
Sampled by: Scott Horsnall

Client: Blue Waters (11260)

1610 New Highway
Farmingdale,
NY 11735

Project: Island Park

Washington Avenue
Island Park,
NY

Manager: Tom Spatafora

Respectfully submitted,

Laboratory Director

NYS Lab ID # 10969
NJ Cert. # 73812
CT Cert. # PH0645
MA Cert. # NY061
PA Cert. # 68-535
VA Cert. # 108
NH Cert. # 252592-BA
RI Cert. # 161

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12/15/2000

Total Petroleum Hydrocarbons-EPA 418.1

Sample: K9588-1
Client Sample ID: SB-59a
Matrix: Soil
Remarks:
Analyzed Date: 12/13/2000
Type: Split Spoon
Collected: 12/05/2000 14:40
% Solid: 83.5%

Cas No	Analyte	MDL	Result	Units	Q
	Total Rec.Petr. Hydrocarbons	3.42	240	ppm	

Sample: K9588-2
Client Sample ID: SB-59b
Matrix: Soil
Remarks:
Analyzed Date: 12/13/2000
Type: Split Spoon
Collected: 12/05/2000 14:45
% Solid: 82.3%

Cas No	Analyte	MDL	Result	Units	Q
	Total Rec.Petr. Hydrocarbons	3.42	157	ppm	

Sample: K9588-3
Client Sample ID: SB-59c
Matrix: Soil
Remarks:
Analyzed Date: 12/13/2000
Type: Split Spoon
Collected: 12/05/2000 14:50
% Solid: 80.2%

Cas No	Analyte	MDL	Result	Units	Q
	Total Rec.Petr. Hydrocarbons	3.42	312	ppm	

Sample: K9588-4
Client Sample ID: SB-50b
Matrix: Soil
Remarks:
Analyzed Date: 12/13/2000
Type: Split Spoon
Collected: 12/06/2000 08:25
% Solid: 84.1%

Cas No	Analyte	MDL	Result	Units	Q
	Total Rec.Petr. Hydrocarbons	3.42	1540	ppm	

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12/15/2000

Total Petroleum Hydrocarbons-EPA 418.1

Sample: K9588-5
Client Sample ID: SB-50c
Matrix: Soil
Remarks:
Analyzed Date: 12/13/2000
Type: Split Spoon
Collected: 12/06/2000 08:30
% Solid: 54.7%

Cas No	Analyte	MDL	Result	Units	Q
	Total Rec.Petr. Hydrocarbons	3.42	114	ppm	

Sample: K9588-6
Client Sample ID: SB-49a
Matrix: Soil
Remarks:
Analyzed Date: 12/13/2000
Type: Split Spoon
Collected: 12/06/2000 08:40
% Solid: 56.2%

Cas No	Analyte	MDL	Result	Units	Q
	Total Rec.Petr. Hydrocarbons	3.42	3970	ppm	

Sample: K9588-7
Client Sample ID: SB-49b
Matrix: Soil
Remarks:
Analyzed Date: 12/13/2000
Type: Split Spoon
Collected: 12/06/2000 08:43
% Solid: 61.5%

Cas No	Analyte	MDL	Result	Units	Q
	Total Rec.Petr. Hydrocarbons	3.42	3580	ppm	

Sample: K9588-8
Client Sample ID: SB-49c
Matrix: Soil
Remarks:
Analyzed Date: 12/13/2000
Type: Split Spoon
Collected: 12/06/2000 08:45
% Solid: 41.3%

Cas No	Analyte	MDL	Result	Units	Q
	Total Rec.Petr. Hydrocarbons	3.42	530	ppm	

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12/15/2000

Total Petroleum Hydrocarbons-EPA 418.1

Sample: K9588-9
Client Sample ID: SB-37a
Matrix: Soil
Remarks:
Analyzed Date: 12/13/2000
Type: Split Spoon
Collected: 12/06/2000 09:00
% Solid: 89.8%

Cas No	Analyte	MDL	Result	Units	Q
	Total Rec.Petr. Hydrocarbons	3.42	993	ppm	

Sample: K9588-10
Client Sample ID: SB-37b
Matrix: Soil
Remarks:
Analyzed Date: 12/13/2000
Type: Split Spoon
Collected: 12/06/2000 09:10
% Solid: 85.8%

Cas No	Analyte	MDL	Result	Units	Q
	Total Rec.Petr. Hydrocarbons	3.42	2960	ppm	

Sample: K9588-11
Client Sample ID: SB-37c
Matrix: Soil
Remarks:
Analyzed Date: 12/13/2000
Type: Split Spoon
Collected: 12/06/2000 09:15
% Solid: 45.6%

Cas No	Analyte	MDL	Result	Units	Q
	Total Rec.Petr. Hydrocarbons	3.42	229	ppm	

Sample: K9588-12
Client Sample ID: SB-34a
Matrix: Soil
Remarks:
Analyzed Date: 12/13/2000
Type: Split Spoon
Collected: 12/06/2000 09:35
% Solid: 88.9%

Cas No	Analyte	MDL	Result	Units	Q
	Total Rec.Petr. Hydrocarbons	3.42	857	ppm	

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12/15/2000

Total Petroleum Hydrocarbons-EPA 418.1

Sample: K9588-13
Client Sample ID: SB-34b
Matrix: Soil
Remarks:
Analyzed Date: 12/13/2000
Type: Split Spoon
Collected: 12/06/2000 09:40
% Solid: 76.5%

Cas No	Analyte	MDL	Result	Units	Q
	Total Rec.Petr. Hydrocarbons	3.42	103	ppm	

Sample: K9588-14
Client Sample ID: SB-34c
Matrix: Soil
Remarks:
Analyzed Date: 12/13/2000
Type: Split Spoon
Collected: 12/06/2000 09:43
% Solid: 51.7%

Cas No	Analyte	MDL	Result	Units	Q
	Total Rec.Petr. Hydrocarbons	3.42	508	ppm	

Sample: K9588-15
Client Sample ID: FB-120600
Matrix: Liquid
Remarks:
Analyzed Date: 12/14/2000
Type: Blank
Collected: 12/06/2000 12:30

Cas No	Analyte	MDL	Result	Units	Q
	Total Rec.Petr. Hydrocarbons	0.26	2.52	ppm	

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12/15/2000

ORGANIC METHOD QUALIFIERS

Q - Qualifier - specified entries and their meanings are as follows:

U - The analytical result is a non-detect.

J - Indicates an estimated value. The concentration reported was detected below the Method Detection Limit.

B - The analyte was found in the associated method blank as well as the sample. It indicates possible/probable blank contamination and warns the data user to take appropriate action.

E - The concentration of the analyte exceeded the calibration range of the instrument.

D - This flag identifies all compounds identified in an analysis at a secondary dilution.

INORGANIC METHOD QUALIFIERS

C - (Concentration) qualifiers are as follows:

B - Entered if the reported value was obtained from a reading that was less than the Contract Required Detection Limit (CRDL) but greater than or equal to the Instrument Detection Limit (IDL).

U - Entered when the analyte was analyzed for, but not detected.

J - Indicates an estimated value. The concentration reported was detected below the Method Detection Limit.

Q - Qualifier specific entries and their meanings are as follows:

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AS - Semi-automated Spectrophotometric

AV - Automated Cold Vapor AA

C - Manual Spectrophotometric

F - Furnace AA

NR - when the analyte is not required to be analyzed.

P - ICP

T - Titrimetric

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12/15/2000

Custody Document: K9586

Received: 12/06/2000 16:45
Sampled by: Scott Horsnall

Client: Blue Waters (11260)

1610 New Highway
Farmingdale,
NY 11735

Project: Island Park

Washington Avenue
Island Park,
NY

Manager: Tom Spatafora

Respectfully submitted,

Laboratory Director

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Environmental Testing Laboratories, Inc.

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12/15/2000

Total Petroleum Hydrocarbons-EPA 418.1

Sample: K9586-1
Client Sample ID: SB-63b
Matrix: Soil
Remarks:
Analyzed Date: 12/13/2000
Type: Split Spoon
Collected: 12/06/2000 10:25
% Solid: 79.2%

Cas No	Analyte	MDL	Result	Units	Q
	Total Rec.Petr. Hydrocarbons	3.42	100	ppm	

Sample: K9586-2
Client Sample ID: SB-63c
Matrix: Soil
Remarks:
Analyzed Date: 12/13/2000
Type: Split Spoon
Collected: 12/06/2000 10:28
% Solid: 41.3%

Cas No	Analyte	MDL	Result	Units	Q
	Total Rec.Petr. Hydrocarbons	3.42	37.3	ppm	

Sample: K9586-3
Client Sample ID: SB-57a
Matrix: Soil
Remarks:
Analyzed Date: 12/13/2000
Type: Split Spoon
Collected: 12/06/2000 10:50
% Solid: 89%

Cas No	Analyte	MDL	Result	Units	Q
	Total Rec.Petr. Hydrocarbons	3.42	1860	ppm	

Sample: K9586-4
Client Sample ID: SB-57b
Matrix: Soil
Remarks:
Analyzed Date: 12/13/2000
Type: Split Spoon
Collected: 12/06/2000 10:53
% Solid: 81.9%

Cas No	Analyte	MDL	Result	Units	Q
	Total Rec.Petr. Hydrocarbons	3.42	852	ppm	

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12/15/2000

Total Petroleum Hydrocarbons-EPA 418.1

Sample: K9586-5

Client Sample ID: SB-57c
Matrix: Soil
Remarks:
Analyzed Date: 12/13/2000

Type: Split Spoon

Collected: 12/06/2000 10:56
% Solid: 52.3%

Cas No	Analyte	MDL	Result	Units	Q
	Total Rec.Petr. Hydrocarbons	3.42	27.6	ppm	

Sample: K9586-6

Client Sample ID: SB-61a
Matrix: Soil
Remarks:
Analyzed Date: 12/13/2000

Type: Split Spoon

Collected: 12/06/2000 11:25
% Solid: 88.2%

Cas No	Analyte	MDL	Result	Units	Q
	Total Rec.Petr. Hydrocarbons	3.42	127	ppm	

Sample: K9586-7

Client Sample ID: SB-61b
Matrix: Soil
Remarks:
Analyzed Date: 12/13/2000

Type: Split Spoon

Collected: 12/06/2000 11:27
% Solid: 84.4%

Cas No	Analyte	MDL	Result	Units	Q
	Total Rec.Petr. Hydrocarbons	3.42	132	ppm	

Sample: K9586-8

Client Sample ID: SB-61c
Matrix: Soil
Remarks:
Analyzed Date: 12/13/2000

Type: Split Spoon

Collected: 12/06/2000 11:30
% Solid: 41.7%

Cas No	Analyte	MDL	Result	Units	Q
	Total Rec.Petr. Hydrocarbons	3.42	262	ppm	

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12/15/2000

Total Petroleum Hydrocarbons-EPA 418.1

Sample: K9586-9
Client Sample ID: SB-29a
Matrix: Soil
Remarks:
Analyzed Date: 12/13/2000
Type: Split Spoon
Collected: 12/06/2000 13:00
% Solid: 88.3%

Cas No	Analyte	MDL	Result	Units	Q
	Total Rec.Petr. Hydrocarbons	3.42	2660	ppm	

Sample: K9586-10
Client Sample ID: SB-29b
Matrix: Soil
Remarks:
Analyzed Date: 12/13/2000
Type: Split Spoon
Collected: 12/06/2000 13:05
% Solid: 89%

Cas No	Analyte	MDL	Result	Units	Q
	Total Rec.Petr. Hydrocarbons	3.42	2390	ppm	

Sample: K9586-11
Client Sample ID: SB-29c
Matrix: Soil
Remarks:
Analyzed Date: 12/13/2000
Type: Split Spoon
Collected: 12/06/2000 13:07
% Solid: 34.7%

Cas No	Analyte	MDL	Result	Units	Q
	Total Rec.Petr. Hydrocarbons	3.42	113	ppm	

Sample: K9586-12
Client Sample ID: SB-31a
Matrix: Soil
Remarks:
Analyzed Date: 12/13/2000
Type: Split Spoon
Collected: 12/06/2000 13:35
% Solid: 90.1%

Cas No	Analyte	MDL	Result	Units	Q
	Total Rec.Petr. Hydrocarbons	3.42	439	ppm	

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12/15/2000

Total Petroleum Hydrocarbons-EPA 418.1

Sample: K9586-13

Client Sample ID: SB-31b
Matrix: Soil
Type: Split Spoon
Collected: 12/06/2000 13:40
% Solid: 83.2%
Remarks:
Analyzed Date: 12/13/2000

Cas No	Analyte	MDL	Result	Units	Q
	Total Rec.Petr. Hydrocarbons	3.42	**2910**	ppm	

Sample: K9586-14

Client Sample ID: SB-31c
Matrix: Soil
Type: Split Spoon
Collected: 12/06/2000 13:45
% Solid: 40.3%
Remarks:
Analyzed Date: 12/13/2000

Cas No	Analyte	MDL	Result	Units	Q
	Total Rec.Petr. Hydrocarbons	3.42	**617**	ppm	

Environmental Testing Laboratories, Inc.

208 Route 109, Farmingdale NY 11735

Phone - 631-249-1456 Fax - 631-249-8344

12/15/2000

Custody Document: ***K9587***

Received: 12/07/2000 16:25
Sampled by: Scott Horsnall

Client: ***Blue Waters (11260)***

1610 New Highway
Farmingdale,
NY 11735

Project: ***Island Park***

Washington Avenue
Island Park,
NY

Manager: ***Tom Spatafora***

Respectfully submitted,

Laboratory Director

NYS Lab ID # 10969
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12/15/2000

Total Petroleum Hydrocarbons-EPA 418.1

Sample: K9587-1
Client Sample ID: SB-52b
Matrix: Soil
Remarks:
Analyzed Date: 12/11/2000
Type: Split Spoon
Collected: 12/07/2000 08:25
% Solid: 79.7%

Cas No	Analyte	MDL	Result	Units	Q
	Total Rec.Petr. Hydrocarbons	3.42	2770	ppm	

Sample: K9587-2
Client Sample ID: SB-52c
Matrix: Soil
Remarks:
Analyzed Date: 12/11/2000
Type: Split Spoon
Collected: 12/07/2000 08:30
% Solid: 34.6%

Cas No	Analyte	MDL	Result	Units	Q
	Total Rec.Petr. Hydrocarbons	3.42	139	ppm	

Sample: K9587-3
Client Sample ID: SB-56a
Matrix: Soil
Remarks:
Analyzed Date: 12/11/2000
Type: Split Spoon
Collected: 12/07/2000 08:50
% Solid: 91.2%

Cas No	Analyte	MDL	Result	Units	Q
	Total Rec.Petr. Hydrocarbons	3.42	177	ppm	

Sample: K9587-4
Client Sample ID: SB-56b
Matrix: Soil
Remarks:
Analyzed Date: 12/11/2000
Type: Split Spoon
Collected: 12/07/2000 09:00
% Solid: 81.9%

Cas No	Analyte	MDL	Result	Units	Q
	Total Rec.Petr. Hydrocarbons	3.42	73.3	ppm	

Environmental Testing Laboratories, Inc.

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12/15/2000

Total Petroleum Hydrocarbons-EPA 418.1

Sample: K9587-5
Client Sample ID: SB-56c
Matrix: Soil
Remarks:
Analyzed Date: 12/11/2000
Type: Split Spoon
Collected: 12/07/2000 09:10
% Solid: 58.4%

Cas No	Analyte	MDL	Result	Units	Q
	Total Rec.Petr. Hydrocarbons	3.42	135	ppm	

Sample: K9587-6
Client Sample ID: SB-39a
Matrix: Soil
Remarks:
Analyzed Date: 12/11/2000
Type: Split Spoon
Collected: 12/07/2000 10:15
% Solid: 89.9%

Cas No	Analyte	MDL	Result	Units	Q
	Total Rec.Petr. Hydrocarbons	3.42	2940	ppm	

Sample: K9587-7
Client Sample ID: SB-39b
Matrix: Soil
Remarks:
Analyzed Date: 12/11/2000
Type: Split Spoon
Collected: 12/07/2000 10:20
% Solid: 85.5%

Cas No	Analyte	MDL	Result	Units	Q
	Total Rec.Petr. Hydrocarbons	3.42	2630	ppm	

Sample: K9587-8
Client Sample ID: SB-39c
Matrix: Soil
Remarks:
Analyzed Date: 12/11/2000
Type: Split Spoon
Collected: 12/07/2000 10:35
% Solid: 63.4%

Cas No	Analyte	MDL	Result	Units	Q
	Total Rec.Petr. Hydrocarbons	3.42	126	ppm	

Environmental Testing Laboratories, Inc.

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12/15/2000

Total Petroleum Hydrocarbons-EPA 418.1

Sample: K9587-9
Client Sample ID: SB-40a
Matrix: Soil
Remarks:
Analyzed Date: 12/11/2000

Type: Split Spoon

Collected: 12/07/2000 10:55
% Solid: 86.3%

Cas No	Analyte	MDL	Result	Units	Q
	Total Rec.Petr. Hydrocarbons	3.42	2790	ppm	

Sample: K9587-10
Client Sample ID: SB-40b
Matrix: Soil
Remarks:
Analyzed Date: 12/11/2000

Type: Split Spoon

Collected: 12/07/2000 11:00
% Solid: 85.8%

Cas No	Analyte	MDL	Result	Units	Q
	Total Rec.Petr. Hydrocarbons	3.42	2480	ppm	

Sample: K9587-11
Client Sample ID: SB-40c
Matrix: Soil
Remarks:
Analyzed Date: 12/11/2000

Type: Split Spoon

Collected: 12/07/2000 11:05
% Solid: 60%

Cas No	Analyte	MDL	Result	Units	Q
	Total Rec.Petr. Hydrocarbons	3.42	37.6	ppm	

Sample: K9587-12
Client Sample ID: SB-41a
Matrix: Soil
Remarks:
Analyzed Date: 12/11/2000

Type: Split Spoon

Collected: 12/07/2000 11:35
% Solid: 83.5%

Cas No	Analyte	MDL	Result	Units	Q
	Total Rec.Petr. Hydrocarbons	3.42	37.3	ppm	

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12/15/2000

Total Petroleum Hydrocarbons-EPA 418.1

Sample: K9586-13

Client Sample ID: SB-31b

Matrix: Soil

Type: Split Spoon

Collected: 12/06/2000 13:40

% Solid: 83.2%

Remarks:

Analyzed Date: 12/13/2000

Cas No	Analyte	MDL	Result	Units	Q
	Total Rec.Petr. Hydrocarbons	3.42	**2910**	ppm	

Sample: K9586-14

Client Sample ID: SB-31c

Matrix: Soil

Type: Split Spoon

Collected: 12/06/2000 13:45

% Solid: 40.3%

Remarks:

Analyzed Date: 12/13/2000

Cas No	Analyte	MDL	Result	Units	Q
	Total Rec.Petr. Hydrocarbons	3.42	**617**	ppm	

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12/15/2000

ORGANIC METHOD QUALIFIERS

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E - The concentration of the analyte exceeded the calibration range of the instrument.

D - This flag identifies all compounds identified in an analysis at a secondary dilution.

INORGANIC METHOD QUALIFIERS

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12/15/2000

Custody Document: K9587

Received: 12/07/2000 16:25
Sampled by: Scott Horsnall

Client: Blue Waters (11260)

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12/15/2000

Total Petroleum Hydrocarbons-EPA 418.1

Sample: K9587-1

Client Sample ID: SB-52b
Matrix: Soil
Remarks:
Analyzed Date: 12/11/2000

Type: Split Spoon

Collected: 12/07/2000 08:25
% Solid: 79.7%

Cas No	Analyte	MDL	Result	Units	Q
	Total Rec.Petr. Hydrocarbons	3.42	2770	ppm	

Sample: K9587-2

Client Sample ID: SB-52c
Matrix: Soil
Remarks:
Analyzed Date: 12/11/2000

Type: Split Spoon

Collected: 12/07/2000 08:30
% Solid: 34.6%

Cas No	Analyte	MDL	Result	Units	Q
	Total Rec.Petr. Hydrocarbons	3.42	139	ppm	

Sample: K9587-3

Client Sample ID: SB-56a
Matrix: Soil
Remarks:
Analyzed Date: 12/11/2000

Type: Split Spoon

Collected: 12/07/2000 08:50
% Solid: 91.2%

Cas No	Analyte	MDL	Result	Units	Q
	Total Rec.Petr. Hydrocarbons	3.42	177	ppm	

Sample: K9587-4

Client Sample ID: SB-56b
Matrix: Soil
Remarks:
Analyzed Date: 12/11/2000

Type: Split Spoon

Collected: 12/07/2000 09:00
% Solid: 81.9%

Cas No	Analyte	MDL	Result	Units	Q
	Total Rec.Petr. Hydrocarbons	3.42	73.3	ppm	

Environmental Testing Laboratories, Inc.

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12/15/2000

Total Petroleum Hydrocarbons-EPA 418.1

Sample: K9587-5

Client Sample ID: SB-56c

Matrix: Soil

Remarks:

Analyzed Date: 12/11/2000

Type: Split Spoon

Collected: 12/07/2000 09:10

% Solid: 58.4%

Cas No	Analyte	MDL	Result	Units	Q
	Total Rec.Petr. Hydrocarbons	3.42	135	ppm	

Sample: K9587-6

Client Sample ID: SB-39a

Matrix: Soil

Remarks:

Analyzed Date: 12/11/2000

Type: Split Spoon

Collected: 12/07/2000 10:15

% Solid: 89.9%

Cas No	Analyte	MDL	Result	Units	Q
	Total Rec.Petr. Hydrocarbons	3.42	2940	ppm	

Sample: K9587-7

Client Sample ID: SB-39b

Matrix: Soil

Remarks:

Analyzed Date: 12/11/2000

Type: Split Spoon

Collected: 12/07/2000 10:20

% Solid: 85.5%

Cas No	Analyte	MDL	Result	Units	Q
	Total Rec.Petr. Hydrocarbons	3.42	2630	ppm	

Sample: K9587-8

Client Sample ID: SB-39c

Matrix: Soil

Remarks:

Analyzed Date: 12/11/2000

Type: Split Spoon

Collected: 12/07/2000 10:35

% Solid: 63.4%

Cas No	Analyte	MDL	Result	Units	Q
	Total Rec.Petr. Hydrocarbons	3.42	126	ppm	

Environmental Testing Laboratories, Inc.

208 Route 109, Farmingdale NY 11735

Phone - 631-249-1456 Fax - 631-249-8344

12/15/2000

Total Petroleum Hydrocarbons-EPA 418.1

Sample: K9587-9
Client Sample ID: SB-40a
Matrix: Soil
Remarks:
Analyzed Date: 12/11/2000

Type: Split Spoon

Collected: 12/07/2000 10:55
% Solid: 86.3%

Cas No	Analyte	MDL	Result	Units	Q
	Total Rec.Petr. Hydrocarbons	3.42	2790	ppm	

Sample: K9587-10
Client Sample ID: SB-40b
Matrix: Soil
Remarks:
Analyzed Date: 12/11/2000

Type: Split Spoon

Collected: 12/07/2000 11:00
% Solid: 85.8%

Cas No	Analyte	MDL	Result	Units	Q
	Total Rec.Petr. Hydrocarbons	3.42	2480	ppm	

Sample: K9587-11
Client Sample ID: SB-40c
Matrix: Soil
Remarks:
Analyzed Date: 12/11/2000

Type: Split Spoon

Collected: 12/07/2000 11:05
% Solid: 60%

Cas No	Analyte	MDL	Result	Units	Q
	Total Rec.Petr. Hydrocarbons	3.42	37.6	ppm	

Sample: K9587-12
Client Sample ID: SB-41a
Matrix: Soil
Remarks:
Analyzed Date: 12/11/2000

Type: Split Spoon

Collected: 12/07/2000 11:35
% Solid: 83.5%

Cas No	Analyte	MDL	Result	Units	Q
	Total Rec.Petr. Hydrocarbons	3.42	37.3	ppm	

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12/15/2000

Total Petroleum Hydrocarbons-EPA 418.1

Sample: K9587-13
Client Sample ID: SB-41b
Matrix: Soil
Remarks:
Analyzed Date: 12/11/2000

Type: Split Spoon

Collected: 12/07/2000 11:40
% Solid: 87.1%

Cas No	Analyte	MDL	Result	Units	Q
	Total Rec.Petr. Hydrocarbons	3.42	64.3	ppm	

Sample: K9587-14
Client Sample ID: SB-41c
Matrix: Soil
Remarks:
Analyzed Date: 12/11/2000

Type: Split Spoon

Collected: 12/07/2000 11:43
% Solid: 34.9%

Cas No	Analyte	MDL	Result	Units	Q
	Total Rec.Petr. Hydrocarbons	3.42	142	ppm	

Sample: K9587-15
Client Sample ID: FB-120700
Matrix: Liquid
Remarks:
Analyzed Date: 12/14/2000

Type: Blank

Collected: 12/07/2000 12:45

Cas No	Analyte	MDL	Result	Units	Q
	Total Rec.Petr. Hydrocarbons	0.26	2.69	ppm	

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12/15/2000

ORGANIC METHOD QUALIFIERS

Q - Qualifier - specified entries and their meanings are as follows:

U - The analytical result is a non-detect.

J - Indicates an estimated value. The concentration reported was detected below the Method Detection Limit.

B - The analyte was found in the associated method blank as well as the sample. It indicates possible/probable blank contamination and warns the data user to take appropriate action.

E - The concentration of the analyte exceeded the calibration range of the instrument.

D - This flag identifies all compounds identified in an analysis at a secondary dilution.

INORGANIC METHOD QUALIFIERS

C - (Concentration) qualifiers are as follows:

B - Entered if the reported value was obtained from a reading that was less than the Contract Required Detection Limit (CRDL) but greater than or equal to the Instrument Detection Limit (IDL).

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Q - Qualifier specific entries and their meanings are as follows:

E - Reported value is estimated because of the presence of interferences.

M - (Method) qualifiers are as follows:

A - Flame AA

AS - Semi-automated Spectrophotometric

AV - Automated Cold Vapor AA

C - Manual Spectrophotometric

F - Furnace AA

NR - when the analyte is not required to be analyzed.

P - ICP

T - Titrimetric

Environmental Testing Laboratories, Inc.

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Phone - 631-249-1456 Fax - 631-249-8344

12/13/2000

Custody Document: K9751

Received: 12/07/2000 16:25
Sampled by: Scott Horsnall

Client: Blue Waters (11260)

1610 New Highway
Farmingdale,
NY 11735

Project: Island Park

Washington Avenue
Island Park,
NY

Manager: Tom Spatafora

Respectfully submitted,

Laboratory Director

NYS Lab ID # 10969
NJ Cert. # 73812
CT Cert. # PH0645
MA Cert. # NY061
PA Cert. # 68-535
VA Cert. # 108
NH Cert. # 252592-BA
RI Cert. # 161

Environmental Testing Laboratories, Inc.

208 Route 109, Farmingdale NY 11735
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12/13/2000

Total Petroleum Hydrocarbons-EPA 418.1

Sample: K9751-1
Client Sample ID: SB-27a
Matrix: Soil
Remarks:
Analyzed Date: 12/11/2000

Type: Split Spoon

Collected: 12/07/2000 14:40
% Solid: 84%

Cas No	Analyte	MDL	Result	Units	Q
	Total Rec.Petr. Hydrocarbons	3.42	672	ppm	

Sample: K9751-2
Client Sample ID: SB-27b
Matrix: Soil
Remarks:
Analyzed Date: 12/11/2000

Type: Split Spoon

Collected: 12/07/2000 14:45
% Solid: 83.8%

Cas No	Analyte	MDL	Result	Units	Q
	Total Rec.Petr. Hydrocarbons	3.42	77.6	ppm	

Sample: K9751-3
Client Sample ID: SB-27c
Matrix: Soil
Remarks:
Analyzed Date: 12/11/2000

Type: Split Spoon

Collected: 12/07/2000 14:50
% Solid: 74.3%

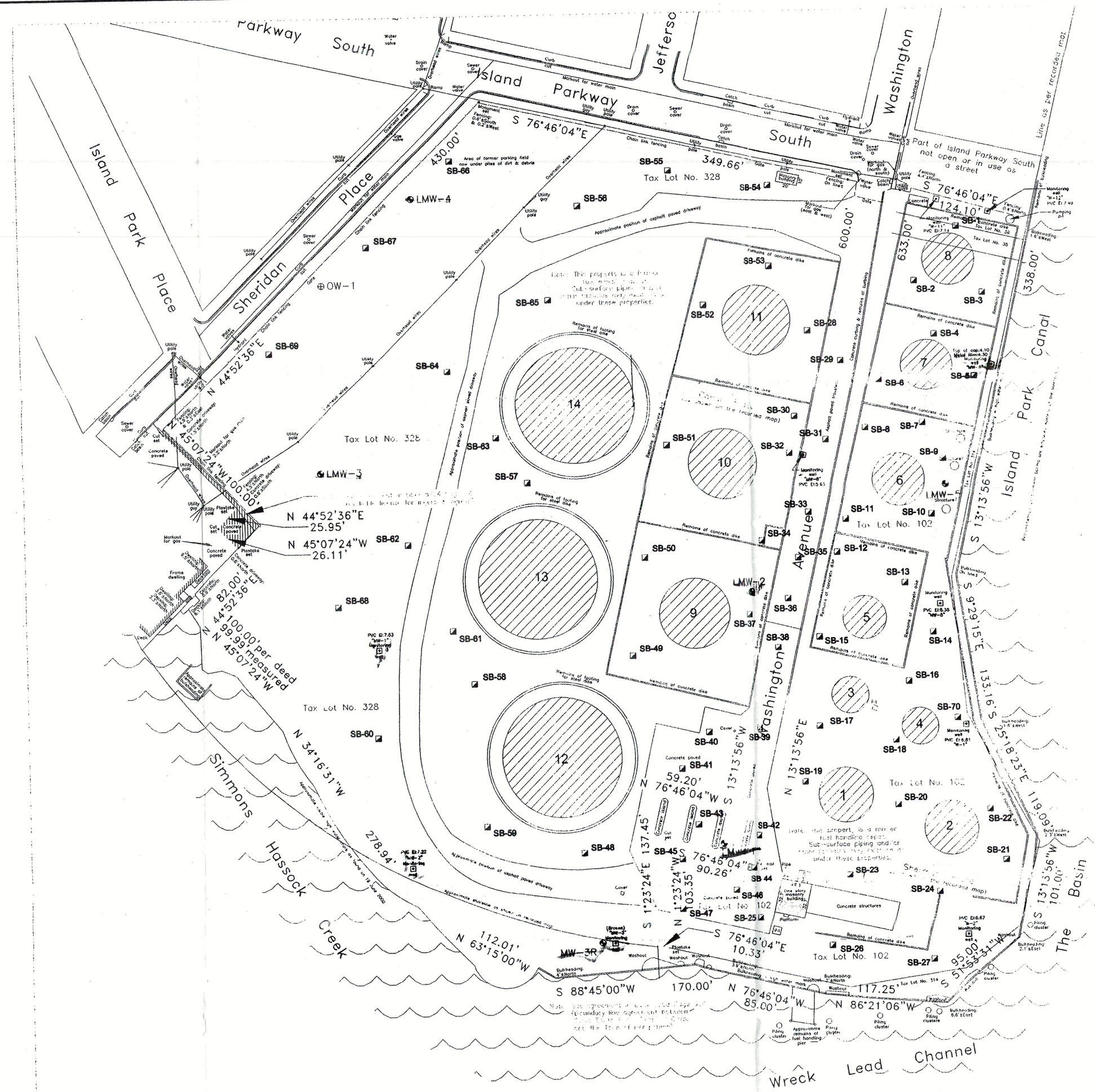
Cas No	Analyte	MDL	Result	Units	Q
	Total Rec.Petr. Hydrocarbons	3.42	47.7	ppm	

Sample: K9751-4
Client Sample ID: SB-21a
Matrix: Soil
Remarks:
Analyzed Date: 12/11/2000

Type: Split Spoon

Collected: 12/07/2000 15:25
% Solid: 89.4%

Cas No	Analyte	MDL	Result	Units	Q
	Total Rec.Petr. Hydrocarbons	3.42	2400	ppm	



LEGEND

- LOCATIONS OF GEOPROBE BORINGS
- LMW-2 LOCATION AND DESIGNATION OF MONITORING WELLS
- 1 LOCATION AND DESIGNATION OF FORMER ABOVEGROUND STORAGE TANKS

REV. #	DATE	BY	DESCRIPTION	APP. BY

REV. #	DATE	BY	DESCRIPTION	APP. BY

BLUE ISLAND, LLC.
FORMER CIBRO PETROLEUM FACILITY
ISLAND PARK, NEW YORK

LAW
ENGINEEERING AND ENVIRONMENTAL SERVICES, INC.

DRAWING TITLE:
LOCATIONS OF FORMER ABOVE GROUND STORAGE TANKS AND LOCATIONS OF GEOPROBE BORINGS AND MONITORING WELLS

FIGURE NUMBER: 2-1
SCALE: 1"=50'
PROJECT NUMBER: 22000-0-0026
ISSUE DATE: 10/25/00

Environmental Testing Laboratories, Inc.

208 Route 109, Farmingdale NY 11735

Phone - 631-249-1456 Fax - 631-249-8344

12/13/2000

Total Petroleum Hydrocarbons-EPA 418.1

Sample: K9751-5

Client Sample ID: SB-21b
Matrix: Soil
Remarks:
Analyzed Date: 12/11/2000

Type: Split Spoon

Collected: 12/07/2000 15:30
% Solid: 81.2%

Cas No	Analyte	MDL	Result	Units	Q
	Total Rec.Petr. Hydrocarbons	3.42	3100	ppm	

Sample: K9751-6

Client Sample ID: SB-21c
Matrix: Soil
Remarks:
Analyzed Date: 12/11/2000

Type: Split Spoon

Collected: 12/07/2000 15:35
% Solid: 66.8%

Cas No	Analyte	MDL	Result	Units	Q
	Total Rec.Petr. Hydrocarbons	3.42	82.2	ppm	

Sample: K9751-7

Client Sample ID: SB-22a
Matrix: Soil
Remarks:
Analyzed Date: 12/11/2000

Type: Split Spoon

Collected: 12/07/2000 15:40
% Solid: 81.9%

Cas No	Analyte	MDL	Result	Units	Q
	Total Rec.Petr. Hydrocarbons	3.42	1970	ppm	

Sample: K9751-8

Client Sample ID: SB-22b
Matrix: Soil
Remarks:
Analyzed Date: 12/11/2000

Type: Split Spoon

Collected: 12/07/2000 15:43
% Solid: 79.1%

Cas No	Analyte	MDL	Result	Units	Q
	Total Rec.Petr. Hydrocarbons	3.42	2900	ppm	

Environmental Testing Laboratories, Inc.

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12/13/2000

Total Petroleum Hydrocarbons-EPA 418.1

Sample: K9751-9
Client Sample ID: SB-22c
Matrix: Soil
Remarks:
Analyzed Date: 12/11/2000

Type: Split Spoon

Collected: 12/07/2000 15:45
% Solid: 54.8%

Cas No	Analyte	MDL	Result	Units	Q
	Total Rec.Petr. Hydrocarbons	3.42	200	ppm	

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208 Route 109, Farmingdale NY 11735
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12/13/2000

ORGANIC METHOD QUALIFIERS

Q - Qualifier - specified entries and their meanings are as follows:

U - The analytical result is a non-detect.

J - Indicates an estimated value. The concentration reported was detected below the Method Detection Limit.

B - The analyte was found in the associated method blank as well as the sample. It indicates possible/probable blank contamination and warns the data user to take appropriate action.

E - The concentration of the analyte exceeded the calibration range of the instrument.

D - This flag identifies all compounds identified in an analysis at a secondary dilution.

INORGANIC METHOD QUALIFIERS

C - (Concentration) qualifiers are as follows:

B - Entered if the reported value was obtained from a reading that was less than the Contract Required Detection Limit (CRDL) but greater than or equal to the Instrument Detection Limit (IDL).

U - Entered when the analyte was analyzed for, but not detected.

J - Indicates an estimated value. The concentration reported was detected below the Method Detection Limit.

Q - Qualifier specific entries and their meanings are as follows:

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M - (Method) qualifiers are as follows:

A - Flame AA

AS - Semi-automated Spectrophotometric

AV - Automated Cold Vapor AA

C - Manual Spectrophotometric

F - Furnace AA

NR - when the analyte is not required to be analyzed.

P - ICP

T - Titrimetric

Environmental Testing Laboratories, Inc.

208 Route 109, Farmingdale NY 11735
Phone - 631-249-1456 Fax - 631-249-8344

12/20/2000

Custody Document: K9590

Received: 12/07/2000 16:25
Sampled by: Scott Horsnall

Client: Blue Waters (11260)

1610 New Highway
Farmingdale,
NY 11735

Project: Island Park

Washington Avenue
Island Park,
NY

Manager: Tom Spatafora

Respectfully submitted,

Laboratory Director

NYS Lab ID # 10969
NJ Cert. # 73812
CT Cert. # PH0645
MA Cert. # NY061
PA Cert. # 68-535
VA Cert. # 108
NH Cert. # 252592-BA
RI Cert. # 161

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12/20/2000

Total Petroleum Hydrocarbons-EPA 418.1

Sample: K9590-1

Client Sample ID: SB-43a
Matrix: Soil
Remarks:
Analyzed Date: 12/11/2000

Type: Split Spoon

Collected: 12/07/2000 12:05
% Solid: 85.1%

Cas No	Analyte	MDL	Result	Units	Q
	Total Rec.Petr. Hydrocarbons	3.42	720	ppm	

Sample: K9590-2

Client Sample ID: SB-43b
Matrix: Soil
Remarks:
Analyzed Date: 12/11/2000

Type: Split Spoon

Collected: 12/07/2000 12:08
% Solid: 90.3%

Cas No	Analyte	MDL	Result	Units	Q
	Total Rec.Petr. Hydrocarbons	3.42	1940	ppm	

Sample: K9590-3

Client Sample ID: SB-43c
Matrix: Soil
Remarks:
Analyzed Date: 12/11/2000

Type: Split Spoon

Collected: 12/07/2000 12:10
% Solid: 37.2%

Cas No	Analyte	MDL	Result	Units	Q
	Total Rec.Petr. Hydrocarbons	3.42	280	ppm	

Sample: K9590-4

Client Sample ID: SB-42a
Matrix: Soil
Remarks:
Analyzed Date: 12/11/2000

Type: Split Spoon

Collected: 12/07/2000 13:10
% Solid: 89.4%

Cas No	Analyte	MDL	Result	Units	Q
	Total Rec.Petr. Hydrocarbons	3.42	2940	ppm	

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12/20/2000

Total Petroleum Hydrocarbons-EPA 418.1

Sample: K9590-5
Client Sample ID: SB-42b
Matrix: Soil
Remarks:
Analyzed Date: 12/11/2000

Type: Split Spoon

Collected: 12/07/2000 13:15
% Solid: 83.3%

Cas No	Analyte	MDL	Result	Units	Q
	Total Rec.Petr. Hydrocarbons	3.42	3140	ppm	

Sample: K9590-6
Client Sample ID: SB-42c
Matrix: Soil
Remarks:
Analyzed Date: 12/11/2000

Type: Split Spoon

Collected: 12/07/2000 13:20
% Solid: 33.2%

Cas No	Analyte	MDL	Result	Units	Q
	Total Rec.Petr. Hydrocarbons	3.42	347	ppm	

Sample: K9590-7
Client Sample ID: SB-23b
Matrix: Soil
Remarks:
Analyzed Date: 12/11/2000

Type: Split Spoon

Collected: 12/07/2000 13:45
% Solid: 82.3%

Cas No	Analyte	MDL	Result	Units	Q
	Total Rec.Petr. Hydrocarbons	3.42	2840	ppm	

Sample: K9590-8
Client Sample ID: SB-23c
Matrix: Soil
Remarks:
Analyzed Date: 12/11/2000

Type: Split Spoon

Collected: 12/07/2000 13:49
% Solid: 56.1%

Cas No	Analyte	MDL	Result	Units	Q
	Total Rec.Petr. Hydrocarbons	3.42	134	ppm	

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12/20/2000

Total Petroleum Hydrocarbons-EPA 418.1

Sample: K9590-9
Client Sample ID: SB-26a
Matrix: Soil
Remarks:
Analyzed Date: 12/11/2000

Type: Split Spoon

Collected: 12/07/2000 14:05
% Solid: 87.7%

Cas No	Analyte	MDL	Result	Units	Q
	Total Rec.Petr. Hydrocarbons	3.42	2300	ppm	

Sample: K9590-10
Client Sample ID: SB-26b
Matrix: Soil
Remarks:
Analyzed Date: 12/11/2000

Type: Split Spoon

Collected: 12/07/2000 14:10
% Solid: 80.9%

Cas No	Analyte	MDL	Result	Units	Q
	Total Rec.Petr. Hydrocarbons	3.42	430	ppm	

Sample: K9590-11
Client Sample ID: SB-26c
Matrix: Soil
Remarks:
Analyzed Date: 12/11/2000

Type: Split Spoon

Collected: 12/07/2000 14:13
% Solid: 64.5%

Cas No	Analyte	MDL	Result	Units	Q
	Total Rec.Petr. Hydrocarbons	3.42	51.8	ppm	

Sample: K9590-12
Client Sample ID: SB-24a
Matrix: Soil
Remarks:
Analyzed Date: 12/11/2000

Type: Split Spoon

Collected: 12/07/2000 14:25
% Solid: 88.8%

Cas No	Analyte	MDL	Result	Units	Q
	Total Rec.Petr. Hydrocarbons	3.42	2970	ppm	

Environmental Testing Laboratories, Inc.

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12/20/2000

Total Petroleum Hydrocarbons-EPA 418.1

Sample: K9590-13

Client Sample ID: SB-24b

Matrix: Soil

Remarks:

Analyzed Date: 12/11/2000

Type: Split Spoon

Collected: 12/07/2000 14:28

% Solid: 80.3%

Cas No	Analyte	MDL	Result	Units	Q
	Total Rec.Petr. Hydrocarbons	3.42	2970	ppm	

Sample: K9590-14

Client Sample ID: SB-24c

Matrix: Soil

Remarks:

Analyzed Date: 12/11/2000

Type: Split Spoon

Collected: 12/07/2000 14:30

% Solid: 38.7%

Cas No	Analyte	MDL	Result	Units	Q
	Total Rec.Petr. Hydrocarbons	3.42	234	ppm	

Environmental Testing Laboratories, Inc.

208 Route 109, Farmingdale NY 11735

Phone - 631-249-1456 Fax - 631-249-8344

12/18/2000

Custody Document: K9754

Received: 12/08/2000 16:58
Sampled by: Scott Horsnall

Client: Blue Waters (11260)

1610 New Highway
Farmingdale,
NY 11735

Project: Island Park

Washington Avenue
Island Park,
NY

Manager: Tom Spatafora

Respectfully submitted,

Laboratory Director

NYS Lab ID # 10969
NJ Cert. # 73812
CT Cert. # PH0645
MA Cert. # NY061
PA Cert. # 68-535
VA Cert. # 108
NH Cert. # 252592-BA
RI Cert. # 161

Environmental Testing Laboratories, Inc.

208 Route 109, Farmingdale NY 11735
Phone - 631-249-1456 Fax - 631-249-8344

12/18/2000

Total Petroleum Hydrocarbons-EPA 418.1

Sample: K9754-1
Client Sample ID: SB-70a
Matrix: Soil
Remarks:
Analyzed Date: 12/14/2000
Type: Split Spoon
Collected: 12/08/2000 14:20
% Solid: 87%

Cas No	Analyte	MDL	Result	Units	Q
	Total Rec.Petr. Hydrocarbons	3.42	1610	ppm	

Sample: K9754-2
Client Sample ID: SB-70b
Matrix: Soil
Remarks:
Analyzed Date: 12/14/2000
Type: Split Spoon
Collected: 12/08/2000 14:23
% Solid: 77.5%

Cas No	Analyte	MDL	Result	Units	Q
	Total Rec.Petr. Hydrocarbons	3.42	2710	ppm	

Sample: K9754-3
Client Sample ID: SB-70c
Matrix: Soil
Remarks:
Analyzed Date: 12/14/2000
Type: Split Spoon
Collected: 12/08/2000 14:26
% Solid: 61.1%

Cas No	Analyte	MDL	Result	Units	Q
	Total Rec.Petr. Hydrocarbons	3.42	150	ppm	

Sample: K9754-4
Client Sample ID: SB-44a
Matrix: Soil
Remarks:
Analyzed Date: 12/14/2000
Type: Split Spoon
Collected: 12/08/2000 14:40
% Solid: 82.4%

Cas No	Analyte	MDL	Result	Units	Q
	Total Rec.Petr. Hydrocarbons	3.42	3260	ppm	

Environmental Testing Laboratories, Inc.

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12/18/2000

Total Petroleum Hydrocarbons-EPA 418.1

Sample: K9754-5
Client Sample ID: SB-44b
Matrix: Soil
Remarks:
Analyzed Date: 12/14/2000
Type: Split Spoon
Collected: 12/08/2000 14:44
% Solid: 87.2%

Cas No	Analyte	MDL	Result	Units	Q
	Total Rec.Petr. Hydrocarbons	3.42	3010	ppm	

Sample: K9754-6
Client Sample ID: SB-44c
Matrix: Soil
Remarks:
Analyzed Date: 12/14/2000
Type: Split Spoon
Collected: 12/08/2000 14:46
% Solid: 55.1%

Cas No	Analyte	MDL	Result	Units	Q
	Total Rec.Petr. Hydrocarbons	3.42	419	ppm	

Sample: K9754-7
Client Sample ID: SB-46a
Matrix: Soil
Remarks:
Analyzed Date: 12/14/2000
Type: Split Spoon
Collected: 12/08/2000 15:15
% Solid: 90%

Cas No	Analyte	MDL	Result	Units	Q
	Total Rec.Petr. Hydrocarbons	3.42	2990	ppm	

Sample: K9754-8
Client Sample ID: SB-46b
Matrix: Soil
Remarks:
Analyzed Date: 12/14/2000
Type: Split Spoon
Collected: 12/08/2000 15:20
% Solid: 86.4%

Cas No	Analyte	MDL	Result	Units	Q
	Total Rec.Petr. Hydrocarbons	3.42	2860	ppm	

Environmental Testing Laboratories, Inc.

208 Route 109, Farmingdale NY 11735

Phone - 631-249-1456 Fax - 631-249-8344

12/18/2000

Total Petroleum Hydrocarbons-EPA 418.1

Sample: K9754-9

Client Sample ID: SB-46c

Matrix: Soil

Remarks:

Analyzed Date: 12/14/2000

Type: Split Spoon

Collected: 12/08/2000 15:25

% Solid: 57.7%

Cas No	Analyte	MDL	Result	Units	Q
	Total Rec.Petr. Hydrocarbons	3.42	106	ppm	

Sample: K9754-10

Client Sample ID: SB-47a

Matrix: Soil

Remarks:

Analyzed Date: 12/14/2000

Type: Split Spoon

Collected: 12/08/2000 15:40

% Solid: 83.4%

Cas No	Analyte	MDL	Result	Units	Q
	Total Rec.Petr. Hydrocarbons	3.42	3130	ppm	

Sample: K9754-11

Client Sample ID: SB-47b

Matrix: Soil

Remarks:

Analyzed Date: 12/14/2000

Type: Split Spoon

Collected: 12/08/2000 15:45

% Solid: 81.5%

Cas No	Analyte	MDL	Result	Units	Q
	Total Rec.Petr. Hydrocarbons	3.42	3160	ppm	

Sample: K9754-12

Client Sample ID: SB-47c

Matrix: Soil

Remarks:

Analyzed Date: 12/14/2000

Type: Split Spoon

Collected: 12/08/2000 15:50

% Solid: 34.7%

Cas No	Analyte	MDL	Result	Units	Q
	Total Rec.Petr. Hydrocarbons	3.42	343	ppm	

Environmental Testing Laboratories, Inc.

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Phone - 631-249-1456 Fax - 631-249-8344

12/18/2000

Total Petroleum Hydrocarbons-EPA 418.1

Sample: K9754-13
Client Sample ID: SB-45a
Matrix: Soil
Remarks:
Analyzed Date: 12/14/2000

Type: Split Spoon

Collected: 12/08/2000 15:55
% Solid: 87.8%

Cas No	Analyte	MDL	Result	Units	Q
	Total Rec.Petr. Hydrocarbons	3.42	2730	ppm	

Sample: K9754-14
Client Sample ID: SB-45b
Matrix: Soil
Remarks:
Analyzed Date: 12/14/2000

Type: Split Spoon

Collected: 12/08/2000 16:00
% Solid: 87.5%

Cas No	Analyte	MDL	Result	Units	Q
	Total Rec.Petr. Hydrocarbons	3.42	3080	ppm	

Sample: K9754-15
Client Sample ID: SB-45c
Matrix: Soil
Remarks:
Analyzed Date: 12/14/2000

Type: Split Spoon

Collected: 12/08/2000 16:05
% Solid: 43%

Cas No	Analyte	MDL	Result	Units	Q
	Total Rec.Petr. Hydrocarbons	3.42	204	ppm	

Environmental Testing Laboratories, Inc.
208 Route 109, Farmingdale NY 11735
Phone - 631-249-1456 Fax - 631-249-8344

12/18/2000

ORGANIC METHOD QUALIFIERS

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B - The analyte was found in the associated method blank as well as the sample. It indicates possible/probable blank contamination and warns the data user to take appropriate action.

E - The concentration of the analyte exceeded the calibration range of the instrument.

D - This flag identifies all compounds identified in an analysis at a secondary dilution.

INORGANIC METHOD QUALIFIERS

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AS - Semi-automated Spectrophotometric

AV - Automated Cold Vapor AA

C - Manual Spectrophotometric

F - Furnace AA

NR - when the analyte is not required to be analyzed.

P - ICP

T - Titrimetric

Environmental Testing Laboratories, Inc.

208 Route 109, Farmingdale NY 11735
Phone - 631-249-1456 Fax - 631-249-8344

12/18/2000

Custody Document: K9755

Received: 12/08/2000 16:57
Sampled by: Scott Horsnall

Client: Blue Waters (11260)

1610 New Highway
Farmingdale,
NY 11735

Project: Island Park

Washington Avenue
Island Park,
NY

Manager: Tom Spatafora

Respectfully submitted,

Laboratory Director

NYS Lab ID # 10969
NJ Cert. # 73812
CT Cert. # PH0645
MA Cert. # NY061
PA Cert. # 68-535
VA Cert. # 108
NH Cert. # 252592-BA
RI Cert. # 161

Environmental Testing Laboratories, Inc.

208 Route 109, Farmingdale NY 11735

Phone - 631-249-1456 Fax - 631-249-8344

12/18/2000

Total Petroleum Hydrocarbons-EPA 418.1

Sample: K9755-1
Client Sample ID: SB-7b
Matrix: Soil
Remarks:
Analyzed Date: 12/14/2000

Type: Split Spoon

Collected: 12/08/2000 11:35
% Solid: 84.4%

Cas No	Analyte	MDL	Result	Units	Q
	Total Rec.Petr. Hydrocarbons	3.42	2290	ppm	

Sample: K9755-2
Client Sample ID: SB-7c
Matrix: Soil
Remarks:
Analyzed Date: 12/14/2000

Type: Split Spoon

Collected: 12/08/2000 11:40
% Solid: 48.8%

Cas No	Analyte	MDL	Result	Units	Q
	Total Rec.Petr. Hydrocarbons	3.42	151	ppm	

Sample: K9755-3
Client Sample ID: SB-9b
Matrix: Soil
Remarks:
Analyzed Date: 12/14/2000

Type: Split Spoon

Collected: 12/08/2000 11:55
% Solid: 79.8%

Cas No	Analyte	MDL	Result	Units	Q
	Total Rec.Petr. Hydrocarbons	3.42	3300	ppm	

Sample: K9755-4
Client Sample ID: SB-9c
Matrix: Soil
Remarks:
Analyzed Date: 12/14/2000

Type: Split Spoon

Collected: 12/08/2000 12:00
% Solid: 51.9%

Cas No	Analyte	MDL	Result	Units	Q
	Total Rec.Petr. Hydrocarbons	3.42	147	ppm	

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12/18/2000

Total Petroleum Hydrocarbons-EPA 418.1

Sample: K9755-5

Client Sample ID: SB-10b
Matrix: Soil
Remarks:
Analyzed Date: 12/14/2000

Type: Split Spoon

Collected: 12/08/2000 12:05
% Solid: 83.1%

Cas No	Analyte	MDL	Result	Units	Q
	Total Rec.Petr. Hydrocarbons	3.42	2820	ppm	

Sample: K9755-6

Client Sample ID: SB-10c
Matrix: Soil
Remarks:
Analyzed Date: 12/14/2000

Type: Split Spoon

Collected: 12/08/2000 12:10
% Solid: 35.9%

Cas No	Analyte	MDL	Result	Units	Q
	Total Rec.Petr. Hydrocarbons	3.42	306	ppm	

Sample: K9755-7

Client Sample ID: FB-120800
Matrix: Liquid
Remarks:
Analyzed Date: 12/15/2000

Type: Blank

Collected: 12/08/2000 12:30

Cas No	Analyte	MDL	Result	Units	Q
	Total Rec.Petr. Hydrocarbons	0.26	0.98	ppm	

Sample: K9755-8

Client Sample ID: SB-8b
Matrix: Soil
Remarks:
Analyzed Date: 12/14/2000

Type: Split Spoon

Collected: 12/08/2000 13:10
% Solid: 80.4%

Cas No	Analyte	MDL	Result	Units	Q
	Total Rec.Petr. Hydrocarbons	3.42	3350	ppm	

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12/18/2000

Total Petroleum Hydrocarbons-EPA 418.1

Sample: K9755-9
Client Sample ID: SB-8c
Matrix: Soil
Remarks:
Analyzed Date: 12/14/2000

Type: Split Spoon

Collected: 12/08/2000 13:15
% Solid: 49.3%

Cas No	Analyte	MDL	Result	Units	Q
	Total Rec.Petr. Hydrocarbons	3.42	277	ppm	

Sample: K9755-10
Client Sample ID: SB-11b
Matrix: Soil
Remarks:
Analyzed Date: 12/14/2000

Type: Split Spoon

Collected: 12/08/2000 13:25
% Solid: 87.2%

Cas No	Analyte	MDL	Result	Units	Q
	Total Rec.Petr. Hydrocarbons	3.42	2850	ppm	

Sample: K9755-11
Client Sample ID: SB-11c
Matrix: Soil
Remarks:
Analyzed Date: 12/14/2000

Type: Split Spoon

Collected: 12/08/2000 13:30
% Solid: 39.6%

Cas No	Analyte	MDL	Result	Units	Q
	Total Rec.Petr. Hydrocarbons	3.42	212	ppm	

Sample: K9755-12
Client Sample ID: SB-15b
Matrix: Soil
Remarks:
Analyzed Date: 12/14/2000

Type: Split Spoon

Collected: 12/08/2000 13:50
% Solid: 79.5%

Cas No	Analyte	MDL	Result	Units	Q
	Total Rec.Petr. Hydrocarbons	3.42	167	ppm	

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12/18/2000

Total Petroleum Hydrocarbons-EPA 418.1

Sample: K9755-13
Client Sample ID: SB-15c
Matrix: Soil
Remarks:
Analyzed Date: 12/14/2000

Type: Split Spoon

Collected: 12/08/2000 13:55
% Solid: 47.3%

Cas No	Analyte	MDL	Result	Units	Q
	Total Rec.Petr. Hydrocarbons	3.42	62.3	ppm	

Sample: K9755-14
Client Sample ID: SB-13b
Matrix: Soil
Remarks:
Analyzed Date: 12/14/2000

Type: Split Spoon

Collected: 12/08/2000 14:05
% Solid: 86.3%

Cas No	Analyte	MDL	Result	Units	Q
	Total Rec.Petr. Hydrocarbons	3.42	3120	ppm	

Sample: K9755-15
Client Sample ID: SB-13c
Matrix: Soil
Remarks:
Analyzed Date: 12/14/2000

Type: Split Spoon

Collected: 12/08/2000 14:10
% Solid: 40.2%

Cas No	Analyte	MDL	Result	Units	Q
	Total Rec.Petr. Hydrocarbons	3.42	182	ppm	

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12/18/2000

Custody Document: K9756

Received: 12/08/2000 16:57
Sampled by: Scott Horsnall

Client: Blue Waters (11260)

1610 New Highway
Farmingdale,
NY 11735

Project: Island Park

Washington Avenue
Island Park,
NY

Manager: Tom Spatafora

Respectfully submitted,

Laboratory Director

NYS Lab ID # 10969
NJ Cert. # 73812
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12/18/2000

Total Petroleum Hydrocarbons-EPA 418.1

Sample: K9756-1
Client Sample ID: SB-25a
Matrix: Soil
Remarks:
Analyzed Date: 12/14/2000

Type: Split Spoon

Collected: 12/08/2000 08:15
% Solid: 88.7%

Cas No	Analyte	MDL	Result	Units	Q
	Total Rec.Petr. Hydrocarbons	3.42	3040	ppm	

Sample: K9756-2
Client Sample ID: SB-25b
Matrix: Soil
Remarks:
Analyzed Date: 12/14/2000

Type: Split Spoon

Collected: 12/08/2000 08:20
% Solid: 79.6%

Cas No	Analyte	MDL	Result	Units	Q
	Total Rec.Petr. Hydrocarbons	3.42	3110	ppm	

Sample: K9756-3
Client Sample ID: SB-25c
Matrix: Soil
Remarks:
Analyzed Date: 12/14/2000

Type: Split Spoon

Collected: 12/08/2000 08:25
% Solid: 54.2%

Cas No	Analyte	MDL	Result	Units	Q
	Total Rec.Petr. Hydrocarbons	3.42	143	ppm	

Sample: K9756-4
Client Sample ID: SB-2b
Matrix: Soil
Remarks:
Analyzed Date: 12/14/2000

Type: Split Spoon

Collected: 12/08/2000 08:50
% Solid: 85.5%

Cas No	Analyte	MDL	Result	Units	Q
	Total Rec.Petr. Hydrocarbons	3.42	430	ppm	

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12/18/2000

Total Petroleum Hydrocarbons-EPA 418.1

Sample: K9756-5
Client Sample ID: SB-2c
Matrix: Soil
Remarks:
Analyzed Date: 12/14/2000

Type: Split Spoon

Collected: 12/08/2000 08:55
% Solid: 36.1%

Cas No	Analyte	MDL	Result	Units	Q
	Total Rec.Petr. Hydrocarbons	3.42	164	ppm	

Sample: K9756-6
Client Sample ID: SB-1b
Matrix: Soil
Remarks:
Analyzed Date: 12/14/2000

Type: Split Spoon

Collected: 12/08/2000 09:05
% Solid: 83%

Cas No	Analyte	MDL	Result	Units	Q
	Total Rec.Petr. Hydrocarbons	3.42	1430	ppm	

Sample: K9756-7
Client Sample ID: SB-1c
Matrix: Soil
Remarks:
Analyzed Date: 12/14/2000

Type: Split Spoon

Collected: 12/08/2000 09:10
% Solid: 45%

Cas No	Analyte	MDL	Result	Units	Q
	Total Rec.Petr. Hydrocarbons	3.42	177	ppm	

Sample: K9756-8
Client Sample ID: SB-3b
Matrix: Soil
Remarks:
Analyzed Date: 12/14/2000

Type: Split Spoon

Collected: 12/08/2000 09:25
% Solid: 79.3%

Cas No	Analyte	MDL	Result	Units	Q
	Total Rec.Petr. Hydrocarbons	3.42	1140	ppm	

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12/18/2000

Total Petroleum Hydrocarbons-EPA 418.1

Sample: K9756-9
Client Sample ID: SB-3c
Matrix: Soil
Remarks:
Analyzed Date: 12/14/2000
Type: Split Spoon
Collected: 12/08/2000 09:30
% Solid: 40.5%

Cas No	Analyte	MDL	Result	Units	Q
	Total Rec.Petr. Hydrocarbons	3.42	135	ppm	

Sample: K9756-10
Client Sample ID: SB-6b
Matrix: Soil
Remarks:
Analyzed Date: 12/14/2000
Type: Split Spoon
Collected: 12/08/2000 10:00
% Solid: 78.5%

Cas No	Analyte	MDL	Result	Units	Q
	Total Rec.Petr. Hydrocarbons	3.42	3100	ppm	

Sample: K9756-11
Client Sample ID: SB-6c
Matrix: Soil
Remarks:
Analyzed Date: 12/14/2000
Type: Split Spoon
Collected: 12/08/2000 10:05
% Solid: 33%

Cas No	Analyte	MDL	Result	Units	Q
	Total Rec.Petr. Hydrocarbons	3.42	193	ppm	

Sample: K9756-12
Client Sample ID: SB-4b
Matrix: Soil
Remarks:
Analyzed Date: 12/14/2000
Type: Split Spoon
Collected: 12/08/2000 10:35
% Solid: 84.8%

Cas No	Analyte	MDL	Result	Units	Q
	Total Rec.Petr. Hydrocarbons	3.42	2670	ppm	

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12/18/2000

Total Petroleum Hydrocarbons-EPA 418.1

Sample: K9756-13
Client Sample ID: SB-4c
Matrix: Soil
Remarks:
Analyzed Date: 12/14/2000
Type: Split Spoon
Collected: 12/08/2000 10:40
% Solid: 39.3%

Cas No	Analyte	MDL	Result	Units	Q
	Total Rec.Petr. Hydrocarbons	3.42	128	ppm	

Sample: K9756-14
Client Sample ID: SB-5b
Matrix: Soil
Remarks:
Analyzed Date: 12/14/2000
Type: Split Spoon
Collected: 12/08/2000 11:00
% Solid: 83.5%

Cas No	Analyte	MDL	Result	Units	Q
	Total Rec.Petr. Hydrocarbons	3.42	3130	ppm	

Sample: K9756-15
Client Sample ID: SB-5c
Matrix: Soil
Remarks:
Analyzed Date: 12/14/2000
Type: Split Spoon
Collected: 12/08/2000 11:05
% Solid: 55.4%

Cas No	Analyte	MDL	Result	Units	Q
	Total Rec.Petr. Hydrocarbons	3.42	211	ppm	

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12/18/2000

ORGANIC METHOD QUALIFIERS

Q - Qualifier - specified entries and their meanings are as follows:

U - The analytical result is a non-detect.

J - Indicates an estimated value. The concentration reported was detected below the Method Detection Limit.

B - The analyte was found in the associated method blank as well as the sample. It indicates possible/probable blank contamination and warns the data user to take appropriate action.

E - The concentration of the analyte exceeded the calibration range of the instrument.

D - This flag identifies all compounds identified in an analysis at a secondary dilution.

INORGANIC METHOD QUALIFIERS

C - (Concentration) qualifiers are as follows:

B - Entered if the reported value was obtained from a reading that was less than the Contract Required Detection Limit (CRDL) but greater than or equal to the Instrument Detection Limit (IDL).

U - Entered when the analyte was analyzed for, but not detected.

J - Indicates an estimated value. The concentration reported was detected below the Method Detection Limit.

Q - Qualifier specific entries and their meanings are as follows:

E - Reported value is estimated because of the presence of interferences.

M - (Method) qualifiers are as follows:

A - Flame AA

AS - Semi-automated Spectrophotometric

AV - Automated Cold Vapor AA

C - Manual Spectrophotometric

F - Furnace AA

NR - when the analyte is not required to be analyzed.

P - ICP

T - Titrimetric

APPENDIX C

Environmental Testing Laboratories, Inc.

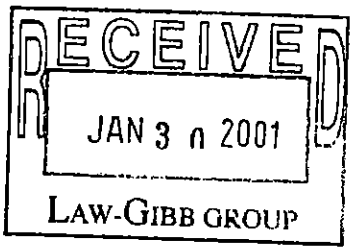
208 Route 109, Farmingdale NY 11735

Phone - 631-249-1456 Fax - 631-249-8344

01/25/2001

Custody Document: L3613

Received: 01/10/2001 15:15
Sampled by: Scott Horsnall



Client: Blue Waters (11260)

1610 New Highway
Farmingdale,
NY 11735

Project: Island Park

Washington Avenue
Island Park,
NY

Manager: Tom Spatafora

Respectfully submitted,

Laboratory Director

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01/25/2001

EPA 8021B Stars Memo Volatiles Compounds

Sample: L3613-1
Client Sample ID: LMW-1
Matrix: Liquid
Remarks: See Case Narrative
Analyzed Date: 01/18/2001

Type: Grab

Collected: 01/09/2001 15:35

Cas No	Analyte	MDL	Concentration	Units	Q
1634-04-4	MTBE	0.25	**15.9**	ppb	
71-43-2	Benzene	0.34	**109**	ppb	
108-88-3	Toluene	0.19	0.19	ppb	U
100-41-4	Ethylbenzene	0.29	**48.0**	ppb	
108-38-3	m,p-xylene	0.36	**1.10**	ppb	
95-47-6	o-xylene	0.18	**1.00**	ppb	
1330-20-7	Xylenes(Total)	0.54	**2.10**	ppb	
98-82-8	Isopropylbenzene	0.13	**23.3**	ppb	
103-65-1	n-Propylbenzene	0.17	**28.5**	ppb	
108-67-8	1,3,5-Trimethylbenzene	0.20	**4.00**	ppb	
98-06-6	tert-Butylbenzene	0.19	**0.85**	ppb	
95-63-6	1,2,4-Trimethylbenzene	0.15	0.15	ppb	U
135-98-8	sec-Butylbenzene	0.19	**9.40**	ppb	
99-87-6	p-Isopropyltoluene	0.13	**6.10**	ppb	
104-51-8	n-Butylbenzene	0.14	**6.50**	ppb	
91-20-3	Naphthalene	9.00	**352**	ppb	

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01/25/2001

EPA 8021B Stars Memo Volatiles Compounds

Sample: L3613-2
Client Sample ID: MW-3R
Matrix: Liquid
Remarks: See Case Narrative
Analyzed Date: 01/19/2001

Type: Grab

Collected: 01/09/2001 15:50

Cas No	Analyte	MDL	Concentration	Units	Q
1634-04-4	MTBE	0.25	0.25	ppb	U
71-43-2	Benzene	0.14	0.14	ppb	U
108-88-3	Toluene	0.16	0.16	ppb	U
100-41-4	Ethylbenzene	0.17	0.17	ppb	U
108-38-3	m,p-xylene	0.17	0.17	ppb	U
95-47-6	o-xylene	0.080	0.080	ppb	U
1330-20-7	Xylenes(Total)	0.89	0.89	ppb	U
98-82-8	Isopropylbenzene	0.10	**3.80**	ppb	
103-65-1	n-Propylbenzene	0.14	**5.60**	ppb	
108-67-8	1,3,5-Trimethylbenzene	0.12	0.12	ppb	U
98-06-6	tert-Butylbenzene	0.13	0.13	ppb	U
95-63-6	1,2,4-Trimethylbenzene	0.13	0.13	ppb	U
135-98-8	sec-Butylbenzene	0.040	**2.60**	ppb	
99-87-6	p-Isopropyltoluene	0.10	**15.8**	ppb	
104-51-8	n-Butylbenzene	0.14	0.14	ppb	U
91-20-3	Naphthalene	0.27	**118**	ppb	

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01/25/2001

EPA 8021B Stars Memo Volatiles Compounds

Sample: L3613-3
Client Sample ID: FB-010901
Matrix: Liquid
Remarks: See Case Narrative
Analyzed Date: 01/17/2001

Type: Blank

Collected: 01/09/2001 17:00

Cas No.	Analyte	MDL	Concentration	Units	Q
1634-04-4	MTBE	0.25	3.90	ppb	
71-43-2	Benzene	0.34	0.34	ppb	U
108-88-3	Toluene	0.19	0.19	ppb	U
100-41-4	Ethylbenzene	0.29	0.29	ppb	U
108-38-3	m,p-xylene	0.36	0.36	ppb	U
95-47-6	o-xylene	0.18	0.18	ppb	U
1330-20-7	Xylenes(Total)	0.54	0.54	ppb	U
98-82-8	Isopropylbenzene	0.13	0.13	ppb	U
103-65-1	n-Propylbenzene	0.17	0.17	ppb	U
108-67-8	1,3,5-Trimethylbenzene	0.20	0.20	ppb	U
98-06-6	tert-Butylbenzene	0.19	0.19	ppb	U
95-63-6	1,2,4-Trimethylbenzene	0.15	0.15	ppb	U
135-98-8	sec-Butylbenzene	0.19	0.19	ppb	U
99-87-6	p-Isopropyltoluene	0.13	0.13	ppb	U
104-51-8	n-Butylbenzene	0.14	0.14	ppb	U
91-20-3	Naphthalene	0.16	0.16	ppb	U

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01/25/2001

EPA 8021B Stars Memo Volatiles Compounds

Sample: L3613-4
Client Sample ID: LMW-3
Matrix: Liquid
Remarks: See Case Narrative
Analyzed Date: 01/22/2001

Type: Grab

Collected: 01/10/2001 08:45

Cas No	Analyte	MDL	Concentration	Units	Q
1634-04-4	MTBE	0.25	0.25	ppb	U
71-43-2	Benzene	0.14	0.14	ppb	U
108-88-3	Toluene	0.16	0.16	ppb	U
100-41-4	Ethylbenzene	0.17	0.17	ppb	U
108-38-3	m,p-xylene	0.17	0.17	ppb	U
95-47-6	o-xylene	0.080	0.080	ppb	U
1330-20-7	Xylenes(Total)	0.89	0.89	ppb	U
98-82-8	Isopropylbenzene	0.10	0.10	ppb	U
103-65-1	n-Propylbenzene	0.14	0.14	ppb	U
108-67-8	1,3,5-Trimethylbenzene	0.12	0.12	ppb	U
98-06-6	tert-Butylbenzene	0.13	0.13	ppb	U
95-63-6	1,2,4-Trimethylbenzene	0.13	0.13	ppb	U
135-98-8	sec-Butylbenzene	0.040	0.040	ppb	U
99-87-6	p-Isopropyltoluene	0.10	0.10	ppb	U
104-51-8	n-Butylbenzene	0.14	0.14	ppb	U
91-20-3	Naphthalene	0.27	0.27	ppb	U

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01/25/2001

EPA 8021B Stars Memo Volatiles Compounds

Sample: L3613-5
Client Sample ID: W-2
Matrix: Liquid
Remarks: See Case Narrative
Analyzed Date: 01/18/2001

Type: Grab

Collected: 01/10/2001 10:30

Cas No	Analyte	MDL	Concentration	Units	Q
1634-04-4	MTBE	0.25	0.25	ppb	U
71-43-2	Benzene	0.34	0.34	ppb	U
108-88-3	Toluene	0.19	0.19	ppb	U
100-41-4	Ethylbenzene	0.29	0.29	ppb	U
108-38-3	m,p-xylene	0.36	0.36	ppb	U
95-47-6	o-xylene	0.18	0.18	ppb	U
1330-20-7	Xylenes(Total)	0.54	0.54	ppb	U
98-82-8	Isopropylbenzene	0.13	0.13	ppb	U
103-65-1	n-Propylbenzene	0.17	0.17	ppb	U
108-67-8	1,3,5-Trimethylbenzene	0.20	0.20	ppb	U
98-06-6	tert-Butylbenzene	0.19	0.19	ppb	U
95-63-6	1,2,4-Trimethylbenzene	0.15	0.15	ppb	U
135-98-8	sec-Butylbenzene	0.19	0.19	ppb	U
99-87-6	p-Isopropyltoluene	0.13	0.13	ppb	U
104-51-8	n-Butylbenzene	0.14	0.14	ppb	U
91-20-3	Naphthalene	0.16	0.16	ppb	U

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01/25/2001

EPA 8021B Stars Memo Volatiles Compounds

Sample: L3613-6
Client Sample ID: LMW-2
Matrix: Liquid
Remarks: See Case Narrative
Analyzed Date: 01/18/2001

Type: Grab

Collected: 01/10/2001 12:40

Cas No	Analyte	MDL	Concentration	Units	Q
1634-04-4	MTBE	0.25	0.25	ppb	U
71-43-2	Benzene	0.14	0.14	ppb	U
108-88-3	Toluene	0.16	**0.79**	ppb	
100-41-4	Ethylbenzene	0.17	**34.1**	ppb	
108-38-3	m,p-xylene	0.17	**20.5**	ppb	
95-47-6	o-xylene	0.080	**4.60**	ppb	
1330-20-7	Xylenes(Total)	0.89	**25.1**	ppb	
98-82-8	Isopropylbenzene	0.10	**8.00**	ppb	
103-65-1	n-Propylbenzene	0.14	**12.1**	ppb	
108-67-8	1,3,5-Trimethylbenzene	0.12	**19.9**	ppb	
98-06-6	tert-Butylbenzene	0.13	0.13	ppb	U
95-63-6	1,2,4-Trimethylbenzene	0.13	**123**	ppb	
135-98-8	sec-Butylbenzene	0.040	**4.40**	ppb	
99-87-6	p-Isopropyltoluene	0.10	**7.90**	ppb	
104-51-8	n-Butylbenzene	0.14	**6.80**	ppb	
91-20-3	Naphthalene	8.00	**148**	ppb	

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01/25/2001

EPA 8021B Stars Memo Volatiles Compounds

Sample: L3613-7
Client Sample ID: TB-011001
Matrix: Liquid
Remarks: See Case Narrative
Analyzed Date: 01/18/2001

Type: Trip Blank

Collected: 01/10/2001

Cas No	Analyte	MDL	Concentration	Units	Q
1634-04-4	MTBE	0.25	3.80	ppb	
71-43-2	Benzene	0.34	0.34	ppb	U
108-88-3	Toluene	0.19	0.19	ppb	U
100-41-4	Ethylbenzene	0.29	0.29	ppb	U
108-38-3	m,p-xylene	0.36	0.36	ppb	U
95-47-6	o-xylene	0.18	0.18	ppb	U
1330-20-7	Xylenes(Total)	0.54	0.54	ppb	U
98-82-8	Isopropylbenzene	0.13	0.13	ppb	U
103-65-1	n-Propylbenzene	0.17	0.17	ppb	U
108-67-8	1,3,5-Trimethylbenzene	0.20	0.20	ppb	U
98-06-6	tert-Butylbenzene	0.19	0.19	ppb	U
95-63-6	1,2,4-Trimethylbenzene	0.15	0.15	ppb	U
135-98-8	sec-Butylbenzene	0.19	0.19	ppb	U
99-87-6	p-Isopropyltoluene	0.13	0.13	ppb	U
104-51-8	n-Butylbenzene	0.14	0.14	ppb	U
91-20-3	Naphthalene	0.16	0.16	ppb	U

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01/25/2001

Stars Memo Base Neutrals

Sample: L3613-1
Client Sample ID: LMW-1
Matrix: Liquid
Remarks:
Analyzed Date: 01/15/2001

Type: Grab

Collected: 01/09/2001 15:35

Cas No	Analyte	MDL	Concentration	Units	Q
91-20-3	Naphthalene	10.1	420	ppb	
83-32-9	Acenaphthene	0.89	7.50	ppb	
86-73-7	Fluorene	0.91	13.8	ppb	
85-01-8	Phenanthrene	0.83	14.3	ppb	
120-12-7	Anthracene	0.92	0.39	ppb	J
206-44-0	Fluoranthene	0.70	0.70	ppb	U
129-00-0	Pyrene	0.65	0.65	ppb	U
56-55-3	Benzo(a)anthracene	0.62	0.62	ppb	U
218-01-9	Chrysene	0.69	0.69	ppb	U
205-99-2	Benzo(b)fluoranthene	1.54	1.54	ppb	U
207-08-9	Benzo(k)fluoranthene	1.10	1.10	ppb	U
50-32-8	Benzo(a)pyrene	0.77	0.77	ppb	U
193-39-5	Indeno(1,2,3-cd)pyrene	0.61	0.61	ppb	U
53-70-3	Dibenzo(a,h)anthracene	0.61	0.61	ppb	U
191-24-2	Benzo(g,h,i)perylene	0.52	0.52	ppb	U

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01/25/2001

Stars Memo Base Neutrals

Sample: L3613-2
Client Sample ID: MW-3R
Matrix: Liquid
Remarks:
Analyzed Date: 01/15/2001

Type: Grab

Collected: 01/09/2001 15:50

Cas No	Analyte	MDL	Concentration	Units	Q
91-20-3	Naphthalene	1.01	**44.1**	ppb	
83-32-9	Acenaphthene	0.89	**4.70**	ppb	
86-73-7	Fluorene	0.91	**5.10**	ppb	
85-01-8	Phenanthrene	0.83	**4.40**	ppb	
120-12-7	Anthracene	0.92	0.92	ppb	U
206-44-0	Fluoranthene	0.70	0.70	ppb	U
129-00-0	Pyrene	0.65	0.65	ppb	U
56-55-3	Benzo(a)anthracene	0.62	0.62	ppb	U
218-01-9	Chrysene	0.69	0.69	ppb	U
205-99-2	Benzo(b)fluoranthene	1.54	1.54	ppb	U
207-08-9	Benzo(k)fluoranthene	1.10	1.10	ppb	U
50-32-8	Benzo(a)pyrene	0.77	0.77	ppb	U
193-39-5	Indeno(1,2,3-cd)pyrene	0.61	0.61	ppb	U
53-70-3	Dibenzo(a,h)anthracene	0.61	0.61	ppb	U
191-24-2	Benzo(g,h,i)perylene	0.52	0.52	ppb	U

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01/25/2001

Stars Memo Base Neutrals

Sample: L3613-3
Client Sample ID: FB-010901
Matrix: Liquid
Remarks:
Analyzed Date: 01/15/2001

Type: Blank

Collected: 01/09/2001 17:00

Cas No	Analyte	MDL	Concentration	Units	Q
91-20-3	Naphthalene	1.01	1.01	ppb	U
83-32-9	Acenaphthene	0.89	0.89	ppb	U
86-73-7	Fluorene	0.91	0.91	ppb	U
85-01-8	Phenanthrene	0.83	0.83	ppb	U
120-12-7	Anthracene	0.92	0.92	ppb	U
206-44-0	Fluoranthene	0.70	0.70	ppb	U
129-00-0	Pyrene	0.65	0.65	ppb	U
56-55-3	Benzo(a)anthracene	0.62	0.62	ppb	U
218-01-9	Chrysene	0.69	0.69	ppb	U
205-99-2	Benzo(b)fluoranthene	1.54	1.54	ppb	U
207-08-9	Benzo(k)fluoranthene	1.10	1.10	ppb	U
50-32-8	Benzo(a)pyrene	0.77	0.77	ppb	U
193-39-5	Indeno(1,2,3-cd)pyrene	0.61	0.61	ppb	U
53-70-3	Dibenzo(a,h)anthracene	0.61	0.61	ppb	U
191-24-2	Benzo(g,h,i)perylene	0.52	0.52	ppb	U

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01/25/2001

Stars Memo Base Neutrals

Sample: L3613-4
Client Sample ID: LMW-3
Matrix: Liquid
Remarks:
Analyzed Date: 01/15/2001

Type: Grab

Collected: 01/10/2001 08:45

Cas No	Analyte	MDL	Concentration	Units	Q
91-20-3	Naphthalene	1.01	0.43	ppb	J
83-32-9	Acenaphthene	0.89	0.89	ppb	U
86-73-7	Fluorene	0.91	0.91	ppb	U
85-01-8	Phenanthrene	0.83	0.83	ppb	U
120-12-7	Anthracene	0.92	0.92	ppb	U
206-44-0	Fluoranthene	0.70	0.70	ppb	U
129-00-0	Pyrene	0.65	0.65	ppb	U
56-55-3	Benzo(a)anthracene	0.62	0.62	ppb	U
218-01-9	Chrysene	0.69	0.69	ppb	U
205-99-2	Benzo(b)fluoranthene	1.54	1.54	ppb	U
207-08-9	Benzo(k)fluoranthene	1.10	1.10	ppb	U
50-32-8	Benzo(a)pyrene	0.77	0.77	ppb	U
193-39-5	Indeno(1,2,3-cd)pyrene	0.61	0.61	ppb	U
53-70-3	Dibenzo(a,h)anthracene	0.61	0.61	ppb	U
191-24-2	Benzo(g,h,i)perylene	0.52	0.52	ppb	U

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01/25/2001

Stars Memo Base Neutrals

Sample: L3613-5
Client Sample ID: W-2
Matrix: Liquid
Remarks:
Analyzed Date: 01/15/2001

Type: Grab

Collected: 01/10/2001 10:30

Cas No	Analyte	MDL	Concentration	Units	Q
91-20-3	Naphthalene	1.01	1.01	ppb	U
83-32-9	Acenaphthene	0.89	0.89	ppb	U
86-73-7	Fluorene	0.91	0.91	ppb	U
85-01-8	Phenanthrene	0.83	0.83	ppb	U
120-12-7	Anthracene	0.92	0.92	ppb	U
206-44-0	Fluoranthene	0.70	0.70	ppb	U
129-00-0	Pyrene	0.65	0.65	ppb	U
56-55-3	Benzo(a)anthracene	0.62	0.62	ppb	U
218-01-9	Chrysene	0.69	0.69	ppb	U
205-99-2	Benzo(b)fluoranthene	1.54	1.54	ppb	U
207-08-9	Benzo(k)fluoranthene	1.10	1.10	ppb	U
50-32-8	Benzo(a)pyrene	0.77	0.77	ppb	U
193-39-5	Indeno(1,2,3-cd)pyrene	0.61	0.61	ppb	U
53-70-3	Dibenzo(a,h)anthracene	0.61	0.61	ppb	U
191-24-2	Benzo(g,h,i)perylene	0.52	0.52	ppb	U

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01/25/2001

Stars Memo Base Neutrals

Sample: L3613-6
Client Sample ID: LMW-2
Matrix: Liquid
Remarks:
Analyzed Date: 01/15/2001

Type: Grab

Collected: 01/10/2001 12:40

Cas No	Analyte	MDL	Concentration	Units	Q
91-20-3	Naphthalene	5.05	**146**	ppb	
83-32-9	Acenaphthene	0.89	**6.20**	ppb	
86-73-7	Fluorene	0.91	**8.90**	ppb	
85-01-8	Phenanthrene	0.83	**10.8**	ppb	
120-12-7	Anthracene	0.92	**0.77**	ppb	J
206-44-0	Fluoranthene	0.70	0.70	ppb	U
129-00-0	Pyrene	0.65	0.65	ppb	U
56-55-3	Benzo(a)anthracene	0.62	0.62	ppb	U
218-01-9	Chrysene	0.69	0.69	ppb	U
205-99-2	Benzo(b)fluoranthene	1.54	1.54	ppb	U
207-08-9	Benzo(k)fluoranthene	1.10	1.10	ppb	U
50-32-8	Benzo(a)pyrene	0.77	0.77	ppb	U
193-39-5	Indeno(1,2,3-cd)pyrene	0.61	0.61	ppb	U
53-70-3	Dibenzo(a,h)anthracene	0.61	0.61	ppb	U
191-24-2	Benzo(g,h,i)perylene	0.52	0.52	ppb	U

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01/25/2001

Total Iron and Manganese

Sample: L3613-1
Client Sample ID: LMW-1
Matrix: Liquid
Remarks: See Case Narrative
Analyzed Date: 01/13/2001
Type: Grab
Collected: 01/09/2001 15:35

Cas No	Analyte	MDL	Concentration	Units	Q
7439-89-6	Iron	262	32300	ppb	
7439-96-5	Manganese	1.11	428	ppb	

Sample: L3613-2
Client Sample ID: MW-3R
Matrix: Liquid
Remarks: See Case Narrative
Analyzed Date: 01/13/2001
Type: Grab
Collected: 01/09/2001 15:50

Cas No	Analyte	MDL	Concentration	Units	Q
7439-89-6	Iron	262	29600	ppb	
7439-96-5	Manganese	1.11	660	ppb	

Sample: L3613-3
Client Sample ID: FB-010901
Matrix: Liquid
Remarks: See Case Narrative
Analyzed Date: 01/13/2001
Type: Blank
Collected: 01/09/2001 17:00

Cas No	Analyte	MDL	Concentration	Units	Q
7439-89-6	Iron	262	82.3	ppb	J
7439-96-5	Manganese	1.11	0.97	ppb	J

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01/25/2001

Total Iron and Manganese

Sample: L3613-4
Client Sample ID: LMW-3
Matrix: Liquid
Remarks: See Case Narrative
Analyzed Date: 01/13/2001
Type: Grab
Collected: 01/10/2001 08:45

Cas No	Analyte	MDL	Concentration	Units	Q
7439-89-6	Iron	236	**4930**	ppb	
7439-96-5	Manganese	1.00	**334**	ppb	

Sample: L3613-5
Client Sample ID: W-2
Matrix: Liquid
Remarks: See Case Narrative
Analyzed Date: 01/13/2001
Type: Grab
Collected: 01/10/2001 10:30

Cas No	Analyte	MDL	Concentration	Units	Q
7439-89-6	Iron	236	**2670**	ppb	
7439-96-5	Manganese	1.00	**172**	ppb	

Sample: L3613-6
Client Sample ID: LMW-2
Matrix: Liquid
Remarks: See Case Narrative
Analyzed Date: 01/13/2001
Type: Grab
Collected: 01/10/2001 12:40

Cas No	Analyte	MDL	Concentration	Units	Q
7439-89-6	Iron	262	**14800**	ppb	
7439-96-5	Manganese	1.11	**284**	ppb	

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01/25/2001

Dissolved Iron and Manganese

Sample: L3613-1
Client Sample ID: LMW-1
Matrix: Liquid
Remarks:
Analyzed Date: 01/18/2001

Collected: 01/09/2001 15:35

Type: Grab

Cas No	Analyte	MDL	Concentration	Units	Q
7439-89-6	Iron	262	146	ppb	J
7439-96-5	Manganese	1.11	342	ppb	

Sample: L3613-2
Client Sample ID: MW-3R
Matrix: Liquid
Remarks:
Analyzed Date: 01/18/2001

Collected: 01/09/2001 15:50

Type: Grab

Cas No	Analyte	MDL	Concentration	Units	Q
7439-89-6	Iron	262	40.4	ppb	J
7439-96-5	Manganese	1.11	426	ppb	

Sample: L3613-3
Client Sample ID: FB-010901
Matrix: Liquid
Remarks:
Analyzed Date: 01/18/2001

Collected: 01/09/2001 17:00

Type: Blank

Cas No	Analyte	MDL	Concentration	Units	Q
7439-89-6	Iron	262	45.3	ppb	J
7439-96-5	Manganese	1.11	4.55	ppb	

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01/25/2001

Dissolved Iron and Manganese

Sample: L3613-4
Client Sample ID: LMW-3
Matrix: Liquid
Remarks:
Analyzed Date: 01/18/2001
Type: Grab
Collected: 01/10/2001 08:45

Cas No	Analyte	MDL	Concentration	Units	Q
7439-89-6	Iron	262	**34.5**	ppb	J
7439-96-5	Manganese	1.11	**296**	ppb	

Sample: L3613-5
Client Sample ID: W-2
Matrix: Liquid
Remarks:
Analyzed Date: 01/18/2001
Type: Grab
Collected: 01/10/2001 10:30

Cas No	Analyte	MDL	Concentration	Units	Q
7439-89-6	Iron	262	**92.5**	ppb	J
7439-96-5	Manganese	1.11	**166**	ppb	

Sample: L3613-6
Client Sample ID: LMW-2
Matrix: Liquid
Remarks:
Analyzed Date: 01/18/2001
Type: Grab
Collected: 01/10/2001 12:40

Cas No	Analyte	MDL	Concentration	Units	Q
7439-89-6	Iron	262	**57.2**	ppb	J
7439-96-5	Manganese	1.11	**278**	ppb	

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01/25/2001

Dissolved TOC

Sample: L3613-1

Client Sample ID: LMW-1 Collected: 01/09/2001 15:35

Matrix: Liquid Type: Grab

Remarks:

Analyzed Date: 01/22/2001

Cas No	Analyte	MDL	Result	Units	Q
	TOC	0.94	138	ppm	

Sample: L3613-2

Client Sample ID: MW-3R Collected: 01/09/2001 15:50

Matrix: Liquid Type: Grab

Remarks:

Analyzed Date: 01/22/2001

Cas No	Analyte	MDL	Result	Units	Q
	TOC	0.94	68.9	ppm	

Sample: L3613-3

Client Sample ID: FB-010901 Collected: 01/09/2001 17:00

Matrix: Liquid Type: Blank

Remarks:

Analyzed Date: 01/22/2001

Cas No	Analyte	MDL	Result	Units	Q
	TOC	0.94	4.66	ppm	

Sample: L3613-4

Client Sample ID: LMW-3 Collected: 01/10/2001 08:45

Matrix: Liquid Type: Grab

Remarks:

Analyzed Date: 01/22/2001

Cas No	Analyte	MDL	Result	Units	Q
	TOC	0.94	19.4	ppm	

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01/25/2001

Dissolved TOC

Sample: L3613-5
Client Sample ID: W-2
Matrix: Liquid
Remarks:
Analyzed Date: 01/22/2001

Collected: 01/10/2001 10:30
Type: Grab

Cas No	Analyte	MDL	Result	Units	Q
	TOC	0.94	22.1	ppm	

Sample: L3613-6
Client Sample ID: LMW-2
Matrix: Liquid
Remarks:
Analyzed Date: 01/22/2001

Collected: 01/10/2001 12:40
Type: Grab

Cas No	Analyte	MDL	Result	Units	Q
	TOC	0.94	56.1	ppm	

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01/25/2001

Alkalinity - EPA Method 310.1

Sample: L3613-1
Client Sample ID: LMW-1
Matrix: Liquid
Remarks:
Analyzed Date: 01/15/2001
Type: Grab
Collected: 01/09/2001 15:35

Cas No	Analyte	MDL	Result	Units	Q
	Alkalinity as CaCO3	0.28	736	ppm	

Sample: L3613-2
Client Sample ID: MW-3R
Matrix: Liquid
Remarks:
Analyzed Date: 01/15/2001
Type: Grab
Collected: 01/09/2001 15:50

Cas No	Analyte	MDL	Result	Units	Q
	Alkalinity as CaCO3	0.28	912	ppm	

Sample: L3613-3
Client Sample ID: FB-010901
Matrix: Liquid
Remarks:
Analyzed Date: 01/15/2001
Type: Blank
Collected: 01/09/2001 17:00

Cas No	Analyte	MDL	Result	Units	Q
	Alkalinity as CaCO3	0.28	8.78	ppm	

Sample: L3613-4
Client Sample ID: LMW-3
Matrix: Liquid
Remarks:
Analyzed Date: 01/15/2001
Type: Grab
Collected: 01/10/2001 08:45

Cas No	Analyte	MDL	Result	Units	Q
	Alkalinity as CaCO3	0.28	598	ppm	

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01/25/2001

Alkalinity - EPA Method 310.1

Sample: L3613-5
Client Sample ID: W-2
Matrix: Liquid
Remarks:
Analyzed Date: 01/15/2001

Type: Grab

Collected: 01/10/2001 10:30

Cas No	Analyte	MDL	Result	Units	Q
	Alkalinity as CaCO3	0.28	256	ppm	

Sample: L3613-6
Client Sample ID: LMW-2
Matrix: Liquid
Remarks:
Analyzed Date: 01/15/2001

Type: Grab

Collected: 01/10/2001 12:40

Cas No	Analyte	MDL	Result	Units	Q
	Alkalinity as CaCO3	0.28	334	ppm	

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01/25/2001

Ammonia - EPA Method 350.2

Sample: L3613-1
Client Sample ID: LMW-1
Matrix: Liquid
Remarks:
Analyzed Date: 01/19/2001
Type: Grab
Collected: 01/09/2001 15:35

Cas No	Analyte	MDL	Result	Units	Q
7664-41-7	Ammonia	0.44	10.7	ppm	

Sample: L3613-2
Client Sample ID: MW-3R
Matrix: Liquid
Remarks:
Analyzed Date: 01/19/2001
Type: Grab
Collected: 01/09/2001 15:50

Cas No	Analyte	MDL	Result	Units	Q
7664-41-7	Ammonia	0.44	7.56	ppm	

Sample: L3613-3
Client Sample ID: FB-010901
Matrix: Liquid
Remarks:
Analyzed Date: 01/19/2001
Type: Blank
Collected: 01/09/2001 17:00

Cas No	Analyte	MDL	Result	Units	Q
7664-41-7	Ammonia	0.44	0.44	ppm	U

Sample: L3613-4
Client Sample ID: LMW-3
Matrix: Liquid
Remarks:
Analyzed Date: 01/19/2001
Type: Grab
Collected: 01/10/2001 08:45

Cas No	Analyte	MDL	Result	Units	Q
7664-41-7	Ammonia	0.44	0.23	ppm	J

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01/25/2001

Ammonia - EPA Method 350.2

Sample: L3613-5
Client Sample ID: W-2
Matrix: Liquid
Remarks:
Analyzed Date: 01/19/2001

Collected: 01/10/2001 10:30

Type: Grab

Cas No	Analyte	MDL	Result	Units	Q
7664-41-7	Ammonia	0.44	0.52	ppm	

Sample: L3613-6
Client Sample ID: LMW-2
Matrix: Liquid
Remarks:
Analyzed Date: 01/19/2001

Collected: 01/10/2001 12:40

Type: Grab

Cas No	Analyte	MDL	Result	Units	Q
7664-41-7	Ammonia	0.44	2.67	ppm	

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01/25/2001

BOD by EPA Method 405.1

Sample: L3613-1
Client Sample ID: LMW-1
Matrix: Liquid
Remarks:
Analyzed Date: 01/11/2001
Type: Grab
Collected: 01/09/2001 15:35

Cas No	Analyte	MDL	Result	Units	Q
	BOD	2.41	10.2	mg/l	

Sample: L3613-2
Client Sample ID: MW-3R
Matrix: Liquid
Remarks:
Analyzed Date: 01/11/2001
Type: Grab
Collected: 01/09/2001 15:50

Cas No	Analyte	MDL	Result	Units	Q
	BOD	2.41	15.9	mg/l	

Sample: L3613-3
Client Sample ID: FB-010901
Matrix: Liquid
Remarks:
Analyzed Date: 01/11/2001
Type: Blank
Collected: 01/09/2001 17:00

Cas No	Analyte	MDL	Result	Units	Q
	BOD	2.41	1.25	mg/l	J

Sample: L3613-4
Client Sample ID: LMW-3
Matrix: Liquid
Remarks:
Analyzed Date: 01/11/2001
Type: Grab
Collected: 01/10/2001 08:45

Cas No	Analyte	MDL	Result	Units	Q
	BOD	2.41	8.00	mg/l	

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01/25/2001

BOD by EPA Method 405.1

Sample: L3613-5
Client Sample ID: W-2
Matrix: Liquid
Remarks:
Analyzed Date: 01/11/2001

Collected: 01/10/2001 10:30

Type: Grab

Cas No	Analyte	MDL	Result	Units	Q
	BOD	2.41	31.0	mg/l	

Sample: L3613-6
Client Sample ID: LMW-2
Matrix: Liquid
Remarks:
Analyzed Date: 01/11/2001

Collected: 01/10/2001 12:40

Type: Grab

Cas No	Analyte	MDL	Result	Units	Q
	BOD	2.41	10.5	mg/l	

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01/25/2001

Chloride-EPA Method 325.2

Sample: L3613-1
Client Sample ID: LMW-1
Matrix: Liquid
Remarks:
Analyzed Date: 01/11/2001
Type: Grab
Collected: 01/09/2001 15:35

Cas No	Analyte	MDL	Result	Units	Q
16887-00-6	Chloride	0.52	416	ppm	

Sample: L3613-2
Client Sample ID: MW-3R
Matrix: Liquid
Remarks:
Analyzed Date: 01/11/2001
Type: Grab
Collected: 01/09/2001 15:50

Cas No	Analyte	MDL	Result	Units	Q
16887-00-6	Chloride	0.52	738	ppm	

Sample: L3613-3
Client Sample ID: FB-010901
Matrix: Liquid
Remarks:
Analyzed Date: 01/11/2001
Type: Blank
Collected: 01/09/2001 17:00

Cas No	Analyte	MDL	Result	Units	Q
16887-00-6	Chloride	0.052	0.19	ppm	

Sample: L3613-4
Client Sample ID: LMW-3
Matrix: Liquid
Remarks:
Analyzed Date: 01/11/2001
Type: Grab
Collected: 01/10/2001 08:45

Cas No	Analyte	MDL	Result	Units	Q
16887-00-6	Chloride	0.52	293	ppm	

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01/25/2001

Chloride-EPA Method 325.2

Sample: L3613-5
Client Sample ID: W-2
Matrix: Liquid
Remarks:
Analyzed Date: 01/11/2001

Collected: 01/10/2001 10:30

Type: Grab

Cas No	Analyte	MDL	Result	Units	Q
16887-00-6	Chloride	0.52	400	ppm	

Sample: L3613-6
Client Sample ID: LMW-2
Matrix: Liquid
Remarks:
Analyzed Date: 01/11/2001

Collected: 01/10/2001 12:40

Type: Grab

Cas No	Analyte	MDL	Result	Units	Q
16887-00-6	Chloride	0.052	117	ppm	

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01/25/2001

Chemical Oxygen Demand by EPA 410.4

Sample: L3613-1
Client Sample ID: LMW-1
Matrix: Liquid
Remarks:
Analyzed Date: 01/23/2001
Type: Grab
Collected: 01/09/2001 15:35

Cas No	Analyte	MDL	Result	Units	Q
	COD	4.80	564	ppm	

Sample: L3613-2
Client Sample ID: MW-3R
Matrix: Liquid
Remarks:
Analyzed Date: 01/23/2001
Type: Grab
Collected: 01/09/2001 15:50

Cas No	Analyte	MDL	Result	Units	Q
	COD	4.80	203	ppm	

Sample: L3613-3
Client Sample ID: FB-010901
Matrix: Liquid
Remarks:
Analyzed Date: 01/23/2001
Type: Blank
Collected: 01/09/2001 17:00

Cas No	Analyte	MDL	Result	Units	Q
	COD	4.80	29.0	ppm	

Sample: L3613-4
Client Sample ID: LMW-3
Matrix: Liquid
Remarks:
Analyzed Date: 01/23/2001
Type: Grab
Collected: 01/10/2001 08:45

Cas No	Analyte	MDL	Result	Units	Q
	COD	4.80	123	ppm	

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01/25/2001

Chemical Oxygen Demand by EPA 410.4

Sample: L3613-5
Client Sample ID: W-2
Matrix: Liquid
Remarks:
Analyzed Date: 01/23/2001

Collected: 01/10/2001 10:30
Type: Grab

Cas No	Analyte	MDL	Result	Units	Q
	COD	4.80	102	ppm	

Sample: L3613-6
Client Sample ID: LMW-2
Matrix: Liquid
Remarks:
Analyzed Date: 01/23/2001

Collected: 01/10/2001 12:40
Type: Grab

Cas No	Analyte	MDL	Result	Units	Q
	COD	4.80	215	ppm	

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01/25/2001

Nitrogen/Nitrate by EPA Method 353.2

Sample: L3613-1
Client Sample ID: LMW-1
Matrix: Liquid
Remarks:
Analyzed Date: 01/24/2001
Type: Grab
Collected: 01/09/2001 15:35

Cas No	Analyte	MDL	Result	Units	Q
14797-55-8	Nitrate	0.025	0.025	ppm	U

Sample: L3613-2
Client Sample ID: MW-3R
Matrix: Liquid
Remarks:
Analyzed Date: 01/24/2001
Type: Grab
Collected: 01/09/2001 15:50

Cas No	Analyte	MDL	Result	Units	Q
14797-55-8	Nitrate	0.025	0.017	ppm	J

Sample: L3613-3
Client Sample ID: FB-010901
Matrix: Liquid
Remarks:
Analyzed Date: 01/24/2001
Type: Blank
Collected: 01/09/2001 17:00

Cas No	Analyte	MDL	Result	Units	Q
14797-55-8	Nitrate	0.025	0.027	ppm	

Sample: L3613-4
Client Sample ID: LMW-3
Matrix: Liquid
Remarks:
Analyzed Date: 01/24/2001
Type: Grab
Collected: 01/10/2001 08:45

Cas No	Analyte	MDL	Result	Units	Q
14797-55-8	Nitrate	0.025	0.067	ppm	

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01/25/2001

Nitrogen/Nitrate by EPA Method 353.2

Sample: L3613-5
Client Sample ID: W-2
Matrix: Liquid
Remarks:
Analyzed Date: 01/24/2001

Collected: 01/10/2001 10:30

Type: Grab

Cas No	Analyte	MDL	Result	Units	Q
14797-55-8	Nitrate	0.025	1.05	ppm	

Sample: L3613-6
Client Sample ID: LMW-2
Matrix: Liquid
Remarks:
Analyzed Date: 01/24/2001

Collected: 01/10/2001 12:40

Type: Grab

Cas No	Analyte	MDL	Result	Units	Q
14797-55-8	Nitrate	0.025	0.030	ppm	

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01/25/2001

Nitrogen/Nitrite by EPA Method 354.1

Sample: L3613-1
Client Sample ID: LMW-1
Matrix: Liquid
Remarks:
Analyzed Date: 01/24/2001
Type: Grab
Collected: 01/09/2001 15:35

Cas No	Analyte	MDL	Result	Units	Q
14797-65-0	Nitrite	0.0090	0.033	ppm	

Sample: L3613-2
Client Sample ID: MW-3R
Matrix: Liquid
Remarks:
Analyzed Date: 01/24/2001
Type: Grab
Collected: 01/09/2001 15:50

Cas No	Analyte	MDL	Result	Units	Q
14797-65-0	Nitrite	0.0090	0.091	ppm	

Sample: L3613-3
Client Sample ID: FB-010901
Matrix: Liquid
Remarks:
Analyzed Date: 01/24/2001
Type: Blank
Collected: 01/09/2001 17:00

Cas No	Analyte	MDL	Result	Units	Q
14797-65-0	Nitrite	0.0090	0.0090	ppm	U

Sample: L3613-4
Client Sample ID: LMW-3
Matrix: Liquid
Remarks:
Analyzed Date: 01/24/2001
Type: Grab
Collected: 01/10/2001 08:45

Cas No	Analyte	MDL	Result	Units	Q
14797-65-0	Nitrite	0.0090	0.38	ppm	

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01/25/2001

Nitrogen/Nitrite by EPA Method 354.1

Sample: L3613-5
Client Sample ID: W-2
Matrix: Liquid
Remarks:
Analyzed Date: 01/24/2001

Collected: 01/10/2001 10:30

Type: Grab

Cas No	Analyte	MDL	Result	Units	Q
14797-65-0	Nitrite	0.0090	0.0080	ppm	J

Sample: L3613-6
Client Sample ID: LMW-2
Matrix: Liquid
Remarks:
Analyzed Date: 01/24/2001

Collected: 01/10/2001 12:40

Type: Grab

Cas No	Analyte	MDL	Result	Units	Q
14797-65-0	Nitrite	0.0090	0.030	ppm	

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01/25/2001

Sulfate by EPA Method 375.4

Sample: L3613-1
Client Sample ID: LMW-1
Matrix: Liquid
Remarks:
Analyzed Date: 01/24/2001
Type: Grab
Collected: 01/09/2001 15:35

Cas No	Analyte	MDL	Result	Units	Q
14808-79-8	Sulfate	0.56	44.7	ppm	

Sample: L3613-2
Client Sample ID: MW-3R
Matrix: Liquid
Remarks:
Analyzed Date: 01/24/2001
Type: Grab
Collected: 01/09/2001 15:50

Cas No	Analyte	MDL	Result	Units	Q
14808-79-8	Sulfate	0.56	11.1	ppm	

Sample: L3613-3
Client Sample ID: FB-010901
Matrix: Liquid
Remarks:
Analyzed Date: 01/24/2001
Type: Blank
Collected: 01/09/2001 17:00

Cas No	Analyte	MDL	Result	Units	Q
14808-79-8	Sulfate	0.56	0.56	ppm	U

Sample: L3613-4
Client Sample ID: LMW-3
Matrix: Liquid
Remarks:
Analyzed Date: 01/24/2001
Type: Grab
Collected: 01/10/2001 08:45

Cas No	Analyte	MDL	Result	Units	Q
14808-79-8	Sulfate	0.56	52.5	ppm	

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01/25/2001

Sulfate by EPA Method 375.4

Sample: L3613-5
Client Sample ID: W-2
Matrix: Liquid
Remarks:
Analyzed Date: 01/24/2001

Collected: 01/10/2001 10:30
Type: Grab

Cas No	Analyte	MDL	Result	Units	Q
14808-79-8	Sulfate	0.56	**20.5**	ppm	

Sample: L3613-6
Client Sample ID: LMW-2
Matrix: Liquid
Remarks:
Analyzed Date: 01/24/2001

Collected: 01/10/2001 12:40
Type: Grab

Cas No	Analyte	MDL	Result	Units	Q
14808-79-8	Sulfate	0.56	**20.6**	ppm	

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01/25/2001

Total Organic Carbon (TOC) by Method 415.1

Sample: L3613-1
Client Sample ID: LMW-1
Matrix: Liquid
Remarks:
Analyzed Date: 01/22/2001
Type: Grab
Collected: 01/09/2001 15:35

Cas No	Analyte	MDL	Result	Units	Q
	TOC	0.94	240	ppm	

Sample: L3613-2
Client Sample ID: MW-3R
Matrix: Liquid
Remarks:
Analyzed Date: 01/22/2001
Type: Grab
Collected: 01/09/2001 15:50

Cas No	Analyte	MDL	Result	Units	Q
	TOC	0.94	86.0	ppm	

Sample: L3613-3
Client Sample ID: FB-010901
Matrix: Liquid
Remarks:
Analyzed Date: 01/22/2001
Type: Blank
Collected: 01/09/2001 17:00

Cas No	Analyte	MDL	Result	Units	Q
	TOC	0.94	15.5	ppm	

Sample: L3613-4
Client Sample ID: LMW-3
Matrix: Liquid
Remarks:
Analyzed Date: 01/22/2001
Type: Grab
Collected: 01/10/2001 08:45

Cas No	Analyte	MDL	Result	Units	Q
	TOC	0.94	67.7	ppm	

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01/25/2001

Total Organic Carbon (TOC) by Method 415.1

Sample: L3613-5
Client Sample ID: W-2
Matrix: Liquid
Remarks:
Analyzed Date: 01/22/2001

Collected: 01/10/2001 10:30

Type: Grab

Cas No	Analyte	MDL	Result	Units	Q
	TOC	0.94	36.2	ppm	

Sample: L3613-6
Client Sample ID: LMW-2
Matrix: Liquid
Remarks:
Analyzed Date: 01/22/2001

Collected: 01/10/2001 12:40

Type: Grab

Cas No	Analyte	MDL	Result	Units	Q
	TOC	0.94	102	ppm	

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01/25/2001

Case Narrative

The following compounds were calibrated at 25, 50, 100, 150 and 200 ppb levels in the initial calibration curve:

Acetone
2-Butanone
4-Methyl-2-pentanone
2-Hexanone

M&P-Xylenes were calibrated at 10, 40, 100, 200 and 300 ppb levels.

All other compounds were calibrated at 5, 20, 50, 100 and 150 ppb levels.

Samples were quantitated using the continuing calibration standard response factor as opposed to the initial calibration average response factor.

Metals

Iron CCV 111.8% was outside QA/QC limits (90%-110%)

Reviewed by: _____

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01/25/2001

ORGANIC METHOD QUALIFIERS

Q - Qualifier - specified entries and their meanings are as follows:

U - The analytical result is a non-detect.

J - Indicates an estimated value. The concentration reported was detected below the Method Detection Limit.

B - The analyte was found in the associated method blank as well as the sample. It indicates possible/probable blank contamination and warns the data user to take appropriate action.

E - The concentration of the analyte exceeded the calibration range of the instrument.

D - This flag identifies all compounds identified in an analysis at a secondary dilution.

INORGANIC METHOD QUALIFIERS

C - (Concentration) qualifiers are as follows:

B - Entered if the reported value was obtained from a reading that was less than the Contract Required Detection Limit (CRDL) but greater than or equal to the Instrument Detection Limit (IDL).

U - Entered when the analyte was analyzed for, but not detected.

J - Indicates an estimated value. The concentration reported was detected below the Method Detection Limit.

Q - Qualifier specific entries and their meanings are as follows:

E - Reported value is estimated because of the presence of interferences.

M - (Method) qualifiers are as follows:

A - Flame AA

AS - Semi-automated Spectrophotometric

AV - Automated Cold Vapor AA

C - Manual Spectrophotometric

F - Furnace AA

NR - when the analyte is not required to be analyzed.

P - ICP

T - Titrimetric

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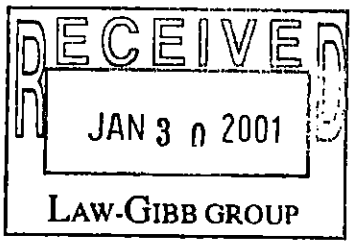
01/25/2001

Custody Document: ***L3612***

Received: 01/09/2001 15:00
Sampled by: Scott Horsnall



Client: ***Blue Waters (11260)***

1610 New Highway
Farmingdale,
NY 11735

Project: ***Island Park***

Washington Avenue
Island Park,
NY

Manager: ***Tom Spatafora***

Respectfully submitted,

Laboratory Director

NYS Lab ID # 10969
NJ Cert. # 73812
CT Cert. # PH0645
MA Cert. # NY061
PA Cert. # 68-535
VA Cert. # 108
NH Cert. # 252592-BA
RI Cert. # 161

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01/25/2001

EPA 8021B Stars Memo Volatiles Compounds

Sample: L3612-1

Client Sample ID: MW-2

Matrix: Liquid

Type: Grab

Collected: 01/08/2001 12:15

Remarks: See Case Narrative

Analyzed Date: 01/13/2001

Cas No	Analyte	MDL	Concentration	Units	Q
1634-04-4	MTBE	0.50	0.50	ppb	U
71-43-2	Benzene	0.68	0.68	ppb	U
108-88-3	Toluene	0.38	0.38	ppb	U
100-41-4	Ethylbenzene	0.58	0.58	ppb	U
108-38-3	m,p-xylene	0.72	0.72	ppb	U
95-47-6	o-xylene	0.36	0.36	ppb	U
1330-20-7	Xylenes(Total)	1.08	1.08	ppb	U
98-82-8	Isopropylbenzene	0.26	0.26	ppb	U
103-65-1	n-Propylbenzene	0.34	0.34	ppb	U
108-67-8	1,3,5-Trimethylbenzene	0.40	0.40	ppb	U
98-06-6	tert-Butylbenzene	0.38	0.38	ppb	U
95-63-6	1,2,4-Trimethylbenzene	0.30	0.30	ppb	U
135-98-8	sec-Butylbenzene	0.38	0.38	ppb	U
99-87-6	p-Isopropyltoluene	0.26	0.26	ppb	U
104-51-8	n-Butylbenzene	0.28	0.28	ppb	U
91-20-3	Naphthalene	0.32	0.32	ppb	U

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01/25/2001

EPA 8021B Stars Memo Volatiles Compounds

Sample: L3612-2
Client Sample ID: MW-1
Matrix: Liquid
Remarks: See Case Narrative
Analyzed Date: 01/13/2001

Type: Grab

Collected: 01/08/2001 13:40

Cas No	Analyte	MDL	Concentration	Units	Q
1634-04-4	MTBE	0.25	0.25	ppb	U
71-43-2	Benzene	0.34	0.34	ppb	U
108-88-3	Toluene	0.19	0.19	ppb	U
100-41-4	Ethylbenzene	0.29	0.29	ppb	U
108-38-3	m,p-xylene	0.36	0.36	ppb	U
95-47-6	o-xylene	0.18	0.18	ppb	U
1330-20-7	Xylenes(Total)	0.54	0.54	ppb	U
98-82-8	Isopropylbenzene	0.13	0.13	ppb	U
103-65-1	n-Propylbenzene	0.17	0.17	ppb	U
108-67-8	1,3,5-Trimethylbenzene	0.20	0.20	ppb	U
98-06-6	tert-Butylbenzene	0.19	0.19	ppb	U
95-63-6	1,2,4-Trimethylbenzene	0.15	0.15	ppb	U
135-98-8	sec-Butylbenzene	0.19	0.19	ppb	U
99-87-6	p-Isopropyltoluene	0.13	0.13	ppb	U
104-51-8	n-Butylbenzene	0.14	0.14	ppb	U
91-20-3	Naphthalene	0.16	0.16	ppb	U

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01/25/2001

EPA 8021B Stars Memo Volatiles Compounds

Sample: L3612-3

Client Sample ID: OW-1

Matrix: Liquid

Type: Grab

Collected: 01/08/2001 15:25

Remarks: See Case Narrative

Analyzed Date: 01/13/2001

Cas No	Analyte	MDL	Concentration	Units	Q
1634-04-4	MTBE	0.50	0.50	ppb	U
71-43-2	Benzene	0.68	0.68	ppb	U
108-88-3	Toluene	0.38	0.38	ppb	U
100-41-4	Ethylbenzene	0.58	0.58	ppb	U
108-38-3	m,p-xylene	0.72	0.72	ppb	U
95-47-6	o-xylene	0.36	0.36	ppb	U
1330-20-7	Xylenes(Total)	1.08	1.08	ppb	U
98-82-8	Isopropylbenzene	0.26	0.26	ppb	U
103-65-1	n-Propylbenzene	0.34	0.34	ppb	U
108-67-8	1,3,5-Trimethylbenzene	0.40	0.40	ppb	U
98-06-6	tert-Butylbenzene	0.38	0.38	ppb	U
95-63-6	1,2,4-Trimethylbenzene	0.30	0.30	ppb	U
135-98-8	sec-Butylbenzene	0.38	0.38	ppb	U
99-87-6	p-Isopropyltoluene	0.26	0.26	ppb	U
104-51-8	n-Butylbenzene	0.28	0.28	ppb	U
91-20-3	Naphthalene	0.32	0.32	ppb	U

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01/25/2001

EPA 8021B Stars Memo Volatiles Compounds

Sample: L3612-4
Client Sample ID: LMW-4
Matrix: Liquid
Remarks: See Case Narrative
Analyzed Date: 01/17/2001

Type: Grab

Collected: 01/08/2001 17:25

Cas No	Analyte	MDL	Concentration	Units	Q
1634-04-4	MTBE	0.25	0.25	ppb	U
71-43-2	Benzene	0.34	0.34	ppb	U
108-88-3	Toluene	0.19	0.19	ppb	U
100-41-4	Ethylbenzene	0.29	0.29	ppb	U
108-38-3	m,p-xylene	0.36	0.36	ppb	U
95-47-6	o-xylene	0.18	0.18	ppb	U
1330-20-7	Xylenes(Total)	0.54	0.54	ppb	U
98-82-8	Isopropylbenzene	0.13	0.13	ppb	U
103-65-1	n-Propylbenzene	0.17	0.17	ppb	U
108-67-8	1,3,5-Trimethylbenzene	0.20	0.20	ppb	U
98-06-6	tert-Butylbenzene	0.19	0.19	ppb	U
95-63-6	1,2,4-Trimethylbenzene	0.15	0.15	ppb	U
135-98-8	sec-Butylbenzene	0.19	0.19	ppb	U
99-87-6	p-Isopropyltoluene	0.13	0.13	ppb	U
104-51-8	n-Butylbenzene	0.14	0.14	ppb	U
91-20-3	Naphthalene	0.16	0.16	ppb	U

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01/25/2001

EPA 8021B Stars Memo Volatiles Compounds

Sample: L3612-5
Client Sample ID: FB-010801
Matrix: Liquid
Remarks: See Case Narrative
Analyzed Date: 01/13/2001

Type: Blank

Collected: 01/08/2001 18:00

Cas No	Analyte	MDL	Concentration	Units	Q
1634-04-4	MTBE	0.25	4.10	ppb	
71-43-2	Benzene	0.34	0.34	ppb	U
108-88-3	Toluene	0.19	0.19	ppb	U
100-41-4	Ethylbenzene	0.29	0.29	ppb	U
108-38-3	m,p-xylene	0.36	0.36	ppb	U
95-47-6	o-xylene	0.18	0.18	ppb	U
1330-20-7	Xylenes(Total)	0.54	0.54	ppb	U
98-82-8	Isopropylbenzene	0.13	0.13	ppb	U
103-65-1	n-Propylbenzene	0.17	0.17	ppb	U
108-67-8	1,3,5-Trimethylbenzene	0.20	0.20	ppb	U
98-06-6	tert-Butylbenzene	0.19	0.19	ppb	U
95-63-6	1,2,4-Trimethylbenzene	0.15	0.15	ppb	U
135-98-8	sec-Butylbenzene	0.19	0.19	ppb	U
99-87-6	p-Isopropyltoluene	0.13	0.13	ppb	U
104-51-8	n-Butylbenzene	0.14	0.14	ppb	U
91-20-3	Naphthalene	0.16	0.16	ppb	U

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01/25/2001

EPA 8021B Stars Memo Volatiles Compounds

Sample: L3612-6
Client Sample ID: W-11
Matrix: Liquid
Remarks: See Case Narrative
Analyzed Date: 01/17/2001

Type: Grab

Collected: 01/09/2001 09:45

Cas No	Analyte	MDL	Concentration	Units	Q
1634-04-4	MTBE	0.25	0.25	ppb	U
71-43-2	Benzene	0.34	0.34	ppb	U
108-88-3	Toluene	0.19	0.19	ppb	U
100-41-4	Ethylbenzene	0.29	0.29	ppb	U
108-38-3	m,p-xylene	0.36	0.36	ppb	U
95-47-6	o-xylene	0.18	0.18	ppb	U
1330-20-7	Xylenes(Total)	0.54	0.54	ppb	U
98-82-8	Isopropylbenzene	0.13	0.13	ppb	U
103-65-1	n-Propylbenzene	0.17	0.17	ppb	U
108-67-8	1,3,5-Trimethylbenzene	0.20	0.20	ppb	U
98-06-6	tert-Butylbenzene	0.19	0.19	ppb	U
95-63-6	1,2,4-Trimethylbenzene	0.15	0.15	ppb	U
135-98-8	sec-Butylbenzene	0.19	0.19	ppb	U
99-87-6	p-Isopropyltoluene	0.13	0.13	ppb	U
104-51-8	n-Butylbenzene	0.14	0.14	ppb	U
91-20-3	Naphthalene	0.16	5.80	ppb	

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01/25/2001

EPA 8021B Stars Memo Volatiles Compounds

Sample: L3612-7
Client Sample ID: W-12
Matrix: Liquid
Remarks: See Case Narrative
Analyzed Date: 01/13/2001

Type: Grab

Collected: 01/09/2001 09:40

Cas No	Analyte	MDL	Concentration	Units	Q
1634-04-4	MTBE	0.25	0.25	ppb	U
71-43-2	Benzene	0.34	0.34	ppb	U
108-88-3	Toluene	0.19	0.19	ppb	U
100-41-4	Ethylbenzene	0.29	0.29	ppb	U
108-38-3	m,p-xylene	0.36	0.36	ppb	U
95-47-6	o-xylene	0.18	0.18	ppb	U
1330-20-7	Xylenes(Total)	0.54	0.54	ppb	U
98-82-8	Isopropylbenzene	0.13	0.13	ppb	U
103-65-1	n-Propylbenzene	0.17	0.17	ppb	U
108-67-8	1,3,5-Trimethylbenzene	0.20	0.20	ppb	U
98-06-6	tert-Butylbenzene	0.19	0.19	ppb	U
95-63-6	1,2,4-Trimethylbenzene	0.15	0.15	ppb	U
135-98-8	sec-Butylbenzene	0.19	0.19	ppb	U
99-87-6	p-Isopropyltoluene	0.13	0.13	ppb	U
104-51-8	n-Butylbenzene	0.14	0.14	ppb	U
91-20-3	Naphthalene	0.16	0.16	ppb	U

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EPA 8021B Stars Memo Volatiles Compounds

Sample: L3612-8
Client Sample ID: MW-6
Matrix: Liquid
Remarks: See Case Narrative
Analyzed Date: 01/17/2001

Type: Grab

Collected: 01/09/2001 11:20

Cas No	Analyte	MDL	Concentration	Units	Q
1634-04-4	MTBE	0.25	0.25	ppb	U
71-43-2	Benzene	0.34	0.34	ppb	U
108-88-3	Toluene	0.19	0.19	ppb	U
100-41-4	Ethylbenzene	0.29	0.29	ppb	U
108-38-3	m,p-xylene	0.36	0.36	ppb	U
95-47-6	o-xylene	0.18	0.18	ppb	U
1330-20-7	Xylenes(Total)	0.54	0.54	ppb	U
98-82-8	Isopropylbenzene	0.13	0.13	ppb	U
103-65-1	n-Propylbenzene	0.17	0.17	ppb	U
108-67-8	1,3,5-Trimethylbenzene	0.20	0.20	ppb	U
98-06-6	tert-Butylbenzene	0.19	0.19	ppb	U
95-63-6	1,2,4-Trimethylbenzene	0.15	0.15	ppb	U
135-98-8	sec-Butylbenzene	0.19	0.19	ppb	U
99-87-6	p-Isopropyltoluene	0.13	0.13	ppb	U
104-51-8	n-Butylbenzene	0.14	0.14	ppb	U
91-20-3	Naphthalene	0.16	0.16	ppb	U

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EPA 8021B Stars Memo Volatiles Compounds

Sample: L3612-9
Client Sample ID: LMW-5
Matrix: Liquid
Remarks: See Case Narrative
Analyzed Date: 01/13/2001

Type: Grab

Collected: 01/09/2001 12:40

Cas No	Analyte	MDL	Concentration	Units	Q
1634-04-4	MTBE	0.25	0.25	ppb	U
71-43-2	Benzene	0.34	0.34	ppb	U
108-88-3	Toluene	0.19	0.19	ppb	U
100-41-4	Ethylbenzene	0.29	0.29	ppb	U
108-38-3	m,p-xylene	0.36	0.36	ppb	U
95-47-6	o-xylene	0.18	0.18	ppb	U
1330-20-7	Xylenes(Total)	0.54	0.54	ppb	U
98-82-8	Isopropylbenzene	0.13	0.13	ppb	U
103-65-1	n-Propylbenzene	0.17	0.17	ppb	U
108-67-8	1,3,5-Trimethylbenzene	0.20	0.20	ppb	U
98-06-6	tert-Butylbenzene	0.19	0.19	ppb	U
95-63-6	1,2,4-Trimethylbenzene	0.15	0.15	ppb	U
135-98-8	sec-Butylbenzene	0.19	0.19	ppb	U
99-87-6	p-Isopropyltoluene	0.13	0.13	ppb	U
104-51-8	n-Butylbenzene	0.14	0.14	ppb	U
91-20-3	Naphthalene	0.16	0.16	ppb	U

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01/25/2001

EPA 8021B Stars Memo Volatiles Compounds

Sample: L3612-10
Client Sample ID: TB-010901
Matrix: Liquid
Remarks: See Case Narrative
Analyzed Date: 01/13/2001

Collected: 01/09/2001

Type: Trip Blank

Cas No	Analyte	MDL	Concentration	Units	Q
1634-04-4	MTBE	0.25	4.60	ppb	
71-43-2	Benzene	0.34	0.34	ppb	U
108-88-3	Toluene	0.19	0.19	ppb	U
100-41-4	Ethylbenzene	0.29	0.29	ppb	U
108-38-3	m,p-xylene	0.36	0.36	ppb	U
95-47-6	o-xylene	0.18	0.18	ppb	U
1330-20-7	Xylenes(Total)	0.54	0.54	ppb	U
98-82-8	Isopropylbenzene	0.13	0.13	ppb	U
103-65-1	n-Propylbenzene	0.17	0.17	ppb	U
108-67-8	1,3,5-Trimethylbenzene	0.20	0.20	ppb	U
98-06-6	tert-Butylbenzene	0.19	0.19	ppb	U
95-63-6	1,2,4-Trimethylbenzene	0.15	0.15	ppb	U
135-98-8	sec-Butylbenzene	0.19	0.19	ppb	U
99-87-6	p-Isopropyltoluene	0.13	0.13	ppb	U
104-51-8	n-Butylbenzene	0.14	0.14	ppb	U
91-20-3	Naphthalene	0.16	0.16	ppb	U

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01/25/2001

Stars Memo Base Neutrals

Sample: L3612-1
Client Sample ID: MW-2
Matrix: Liquid
Remarks:
Analyzed Date: 01/15/2001

Collected: 01/08/2001 12:15

Type: Grab

Cas No	Analyte	MDL	Concentration	Units	Q
91-20-3	Naphthalene	0.99	0.99	ppb	U
83-32-9	Acenaphthene	1.00	1.70	ppb	
86-73-7	Fluorene	0.82	0.82	ppb	U
85-01-8	Phenanthrene	0.64	0.64	ppb	U
120-12-7	Anthracene	0.67	0.67	ppb	U
206-44-0	Fluoranthene	0.53	0.34	ppb	J
129-00-0	Pyrene	0.76	0.24	ppb	J
56-55-3	Benzo(a)anthracene	0.64	0.64	ppb	U
218-01-9	Chrysene	0.52	0.52	ppb	U
205-99-2	Benzo(b)fluoranthene	0.81	0.81	ppb	U
207-08-9	Benzo(k)fluoranthene	0.92	0.92	ppb	U
50-32-8	Benzo(a)pyrene	0.70	0.70	ppb	U
193-39-5	Indeno(1,2,3-cd)pyrene	0.58	0.58	ppb	U
53-70-3	Dibenzo(a,h)anthracene	0.66	0.66	ppb	U
191-24-2	Benzo(g,h,i)perylene	0.62	0.62	ppb	U

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01/25/2001

Stars Memo Base Neutrals

Sample: L3612-2
Client Sample ID: MW-1
Matrix: Liquid
Remarks:
Analyzed Date: 01/15/2001

Type: Grab

Collected: 01/08/2001 13:40

Cas No	Analyte	MDL	Concentration	Units	Q
91-20-3	Naphthalene	0.99	0.99	ppb	U
83-32-9	Acenaphthene	1.00	1.00	ppb	U
86-73-7	Fluorene	0.82	0.82	ppb	U
85-01-8	Phenanthrene	0.64	0.64	ppb	U
120-12-7	Anthracene	0.67	0.67	ppb	U
206-44-0	Fluoranthene	0.53	0.53	ppb	U
129-00-0	Pyrene	0.76	0.76	ppb	U
56-55-3	Benzo(a)anthracene	0.64	0.64	ppb	U
218-01-9	Chrysene	0.52	0.52	ppb	U
205-99-2	Benzo(b)fluoranthene	0.81	0.81	ppb	U
207-08-9	Benzo(k)fluoranthene	0.92	0.92	ppb	U
50-32-8	Benzo(a)pyrene	0.70	0.70	ppb	U
193-39-5	Indeno(1,2,3-cd)pyrene	0.58	0.58	ppb	U
53-70-3	Dibenzo(a,h)anthracene	0.66	0.66	ppb	U
191-24-2	Benzo(g,h,i)perylene	0.62	0.62	ppb	U

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01/25/2001

Stars Memo Base Neutrals

Sample: L3612-3
Client Sample ID: OW-1
Matrix: Liquid
Remarks:
Analyzed Date: 01/15/2001

Collected: 01/08/2001 15:25

Type: Grab

Cas No	Analyte	MDL	Concentration	Units	Q
91-20-3	Naphthalene	0.99	0.99	ppb	U
83-32-9	Acenaphthene	1.00	1.00	ppb	U
86-73-7	Fluorene	0.82	0.82	ppb	U
85-01-8	Phenanthrene	0.64	0.64	ppb	U
120-12-7	Anthracene	0.67	0.67	ppb	U
206-44-0	Fluoranthene	0.53	0.53	ppb	U
129-00-0	Pyrene	0.76	0.76	ppb	U
56-55-3	Benzo(a)anthracene	0.64	0.64	ppb	U
218-01-9	Chrysene	0.52	0.52	ppb	U
205-99-2	Benzo(b)fluoranthene	0.81	0.81	ppb	U
207-08-9	Benzo(k)fluoranthene	0.92	0.92	ppb	U
50-32-8	Benzo(a)pyrene	0.70	0.70	ppb	U
193-39-5	Indeno(1,2,3-cd)pyrene	0.58	0.58	ppb	U
53-70-3	Dibenzo(a,h)anthracene	0.66	0.66	ppb	U
191-24-2	Benzo(g,h,i)perylene	0.62	0.62	ppb	U

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01/25/2001

Stars Memo Base Neutrals

Sample: L3612-4
Client Sample ID: LMW-4
Matrix: Liquid
Remarks:
Analyzed Date: 01/15/2001

Type: Grab

Collected: 01/08/2001 17:25

Cas No	Analyte	MDL	Concentration	Units	Q
91-20-3	Naphthalene	0.99	0.43	ppb	J
83-32-9	Acenaphthene	1.00	1.00	ppb	U
86-73-7	Fluorene	0.82	0.82	ppb	U
85-01-8	Phenanthrene	0.64	0.43	ppb	J
120-12-7	Anthracene	0.67	0.67	ppb	U
206-44-0	Fluoranthene	0.53	0.53	ppb	U
129-00-0	Pyrene	0.76	0.76	ppb	U
56-55-3	Benzo(a)anthracene	0.64	0.64	ppb	U
218-01-9	Chrysene	0.52	0.52	ppb	U
205-99-2	Benzo(b)fluoranthene	0.81	0.81	ppb	U
207-08-9	Benzo(k)fluoranthene	0.92	0.92	ppb	U
50-32-8	Benzo(a)pyrene	0.70	0.70	ppb	U
193-39-5	Indeno(1,2,3-cd)pyrene	0.58	0.58	ppb	U
53-70-3	Dibenzo(a,h)anthracene	0.66	0.66	ppb	U
191-24-2	Benzo(g,h,i)perylene	0.62	0.62	ppb	U

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01/25/2001

Stars Memo Base Neutrals

Sample: L3612-5
Client Sample ID: FB-010801
Matrix: Liquid
Remarks:
Analyzed Date: 01/15/2001

Collected: 01/08/2001 18:00

Type: Blank

Cas No	Analyte	MDL	Concentration	Units	Q
91-20-3	Naphthalene	0.99	0.99	ppb	U
83-32-9	Acenaphthene	1.00	1.00	ppb	U
86-73-7	Fluorene	0.82	0.82	ppb	U
85-01-8	Phenanthrene	0.64	0.64	ppb	U
120-12-7	Anthracene	0.67	0.67	ppb	U
206-44-0	Fluoranthene	0.53	0.53	ppb	U
129-00-0	Pyrene	0.76	0.76	ppb	U
56-55-3	Benzo(a)anthracene	0.64	0.64	ppb	U
218-01-9	Chrysene	0.52	0.52	ppb	U
205-99-2	Benzo(b)fluoranthene	0.81	0.81	ppb	U
207-08-9	Benzo(k)fluoranthene	0.92	0.92	ppb	U
50-32-8	Benzo(a)pyrene	0.70	0.70	ppb	U
193-39-5	Indeno(1,2,3-cd)pyrene	0.58	0.58	ppb	U
53-70-3	Dibenzo(a,h)anthracene	0.66	0.66	ppb	U
191-24-2	Benzo(g,h,i)perylene	0.62	0.62	ppb	U

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01/25/2001

Stars Memo Base Neutrals

Sample: L3612-6
Client Sample ID: W-11
Matrix: Liquid
Remarks: See Case Narrative
Analyzed Date: 01/15/2001

Type: Grab

Collected: 01/09/2001 09:45

Cas No	Analyte	MDL	Concentration	Units	Q
91-20-3	Naphthalene	0.99	**0.72**	ppb	J
83-32-9	Acenaphthene	1.00	**14.7**	ppb	
86-73-7	Fluorene	0.82	**4.40**	ppb	
85-01-8	Phenanthrene	0.64	**2.70**	ppb	
120-12-7	Anthracene	0.67	**0.39**	ppb	J
206-44-0	Fluoranthene	0.53	**0.86**	ppb	
129-00-0	Pyrene	0.76	**0.39**	ppb	J
56-55-3	Benzo(a)anthracene	0.64	0.64	ppb	U
218-01-9	Chrysene	0.52	0.52	ppb	U
205-99-2	Benzo(b)fluoranthene	0.81	0.81	ppb	U
207-08-9	Benzo(k)fluoranthene	0.92	0.92	ppb	U
50-32-8	Benzo(a)pyrene	0.70	0.70	ppb	U
193-39-5	Indeno(1,2,3-cd)pyrene	0.58	0.58	ppb	U
53-70-3	Dibenzo(a,h)anthracene	0.66	0.66	ppb	U
191-24-2	Benzo(g,h,i)perylene	0.62	0.62	ppb	U

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01/25/2001

Stars Memo Base Neutrals

Sample: L3612-7
Client Sample ID: W-12
Matrix: Liquid
Remarks:
Analyzed Date: 01/15/2001

Type: Grab

Collected: 01/09/2001 09:40

Cas No	Analyte	MDL	Concentration	Units	Q
91-20-3	Naphthalene	0.99	**0.33**	ppb	J
83-32-9	Acenaphthene	1.00	**5.00**	ppb	
86-73-7	Fluorene	0.82	**1.50**	ppb	
85-01-8	Phenanthrene	0.64	**0.87**	ppb	
120-12-7	Anthracene	0.67	0.67	ppb	U
206-44-0	Fluoranthene	0.53	0.53	ppb	U
129-00-0	Pyrene	0.76	0.76	ppb	U
56-55-3	Benzo(a)anthracene	0.64	0.64	ppb	U
218-01-9	Chrysene	0.52	0.52	ppb	U
205-99-2	Benzo(b)fluoranthene	0.81	0.81	ppb	U
207-08-9	Benzo(k)fluoranthene	0.92	0.92	ppb	U
50-32-8	Benzo(a)pyrene	0.70	0.70	ppb	U
193-39-5	Indeno(1,2,3-cd)pyrene	0.58	0.58	ppb	U
53-70-3	Dibenzo(a,h)anthracene	0.66	0.66	ppb	U
191-24-2	Benzo(g,h,i)perylene	0.62	0.62	ppb	U

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01/25/2001

Stars Memo Base Neutrals

Sample: L3612-8
Client Sample ID: MW-6
Matrix: Liquid
Remarks:
Analyzed Date: 01/15/2001

Type: Grab

Collected: 01/09/2001 11:20

Cas No	Analyte	MDL	Concentration	Units	Q
91-20-3	Naphthalene	1.98	**0.50**	ppb	J
83-32-9	Acenaphthene	2.01	**0.54**	ppb	J
86-73-7	Fluorene	1.63	1.63	ppb	U
85-01-8	Phenanthrene	1.28	1.28	ppb	U
120-12-7	Anthracene	1.33	1.33	ppb	U
206-44-0	Fluoranthene	1.07	1.07	ppb	U
129-00-0	Pyrene	1.53	1.53	ppb	U
56-55-3	Benzo(a)anthracene	1.29	1.29	ppb	U
218-01-9	Chrysene	1.04	1.04	ppb	U
205-99-2	Benzo(b)fluoranthene	1.62	1.62	ppb	U
207-08-9	Benzo(k)fluoranthene	1.83	1.83	ppb	U
50-32-8	Benzo(a)pyrene	1.39	1.39	ppb	U
193-39-5	Indeno(1,2,3-cd)pyrene	1.16	1.16	ppb	U
53-70-3	Dibenzo(a,h)anthracene	1.32	1.32	ppb	U
191-24-2	Benzo(g,h,i)perylene	1.23	1.23	ppb	U

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01/25/2001

Total Metals (Fe, Mn)

Sample: L3612-1 Collected: 01/08/2001 12:15
Client Sample ID: MW-2
Matrix: Liquid
Type: Grab
Remarks:
Analyzed Date: 01/13/2001

Cas No	Analyte	MDL	Concentration	Units	Q
7439-89-6	Iron	262	739	ppb	
7439-96-5	Manganese	1.11	68.8	ppb	

Sample: L3612-2 Collected: 01/08/2001 13:40
Client Sample ID: MW-1
Matrix: Liquid
Type: Grab
Remarks:
Analyzed Date: 01/13/2001

Cas No	Analyte	MDL	Concentration	Units	Q
7439-89-6	Iron	262	1840	ppb	
7439-96-5	Manganese	1.11	53.9	ppb	

Sample: L3612-3 Collected: 01/08/2001 15:25
Client Sample ID: OW-1
Matrix: Liquid
Type: Grab
Remarks:
Analyzed Date: 01/13/2001

Cas No	Analyte	MDL	Concentration	Units	Q
7439-89-6	Iron	262	10800	ppb	
7439-96-5	Manganese	1.11	358	ppb	

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01/25/2001

Total Metals (Fe, Mn)

Sample: L3612-4
Client Sample ID: LMW-4
Matrix: Liquid
Remarks:
Analyzed Date: 01/13/2001

Type: Grab

Collected: 01/08/2001 17:25

Cas No	Analyte	MDL	Concentration	Units	Q
7439-89-6	Iron	262	3940	ppb	
7439-96-5	Manganese	1.11	313	ppb	

Sample: L3612-5
Client Sample ID: FB-010801
Matrix: Liquid
Remarks:
Analyzed Date: 01/13/2001

Type: Blank

Collected: 01/08/2001 18:00

Cas No	Analyte	MDL	Concentration	Units	Q
7439-89-6	Iron	236	236	ppb	U
7439-96-5	Manganese	1.00	1.00	ppb	U

Sample: L3612-6
Client Sample ID: W-11
Matrix: Liquid
Remarks:
Analyzed Date: 01/13/2001

Type: Grab

Collected: 01/09/2001 09:45

Cas No	Analyte	MDL	Concentration	Units	Q
7439-89-6	Iron	262	7410	ppb	
7439-96-5	Manganese	1.11	386	ppb	

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01/25/2001

Total Metals (Fe, Mn)

Sample: L3612-7
Client Sample ID: W-12
Matrix: Liquid
Remarks:
Analyzed Date: 01/13/2001

Collected: 01/09/2001 09:40

Type: Grab

Cas No	Analyte	MDL	Concentration	Units	Q
7439-89-6	Iron	262	133	ppb	J
7439-96-5	Manganese	1.11	15.7	ppb	

Sample: L3612-9
Client Sample ID: LMW-5
Matrix: Liquid
Remarks:
Analyzed Date: 01/13/2001

Collected: 01/09/2001 12:40

Type: Grab

Cas No	Analyte	MDL	Concentration	Units	Q
7439-89-6	Iron	262	1130	ppb	
7439-96-5	Manganese	1.11	469	ppb	

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01/25/2001

Dissolved Iron and Manganese

Sample: L3612-1
Client Sample ID: MW-2
Matrix: Liquid
Remarks:
Analyzed Date: 01/18/2001
Type: Grab
Collected: 01/08/2001 12:15

Cas No	Analyte	MDL	Concentration	Units	Q
7439-89-6	Iron	262	**58.9**	ppb	J
7439-96-5	Manganese	1.11	**52.9**	ppb	

Sample: L3612-2
Client Sample ID: MW-1
Matrix: Liquid
Remarks:
Analyzed Date: 01/18/2001
Type: Grab
Collected: 01/08/2001 13:40

Cas No	Analyte	MDL	Concentration	Units	Q
7439-89-6	Iron	262	**119**	ppb	J
7439-96-5	Manganese	1.11	**20.5**	ppb	

Sample: L3612-3
Client Sample ID: OW-1
Matrix: Liquid
Remarks:
Analyzed Date: 01/18/2001
Type: Grab
Collected: 01/08/2001 15:25

Cas No	Analyte	MDL	Concentration	Units	Q
7439-89-6	Iron	262	**48.8**	ppb	J
7439-96-5	Manganese	1.11	**299**	ppb	

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01/25/2001

Dissolved Iron and Manganese

Sample: L3612-4
Client Sample ID: LMW-4
Matrix: Liquid
Remarks:
Analyzed Date: 01/18/2001
Type: Grab
Collected: 01/08/2001 17:25

Cas No	Analyte	MDL	Concentration	Units	Q
7439-89-6	Iron	262	**78.3**	ppb	J
7439-96-5	Manganese	1.11	**246**	ppb	

Sample: L3612-5
Client Sample ID: FB-010801
Matrix: Liquid
Remarks:
Analyzed Date: 01/18/2001
Type: Blank
Collected: 01/08/2001 18:00

Cas No	Analyte	MDL	Concentration	Units	Q
7439-89-6	Iron	236	236	ppb	U
7439-96-5	Manganese	1.00	1.00	ppb	U

Sample: L3612-6
Client Sample ID: W-11
Matrix: Liquid
Remarks:
Analyzed Date: 01/18/2001
Type: Grab
Collected: 01/09/2001 09:45

Cas No	Analyte	MDL	Concentration	Units	Q
7439-89-6	Iron	262	**156**	ppb	J
7439-96-5	Manganese	1.11	**295**	ppb	

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01/25/2001

Dissolved Iron and Manganese

Sample: L3612-7
Client Sample ID: W-12
Matrix: Liquid
Remarks:
Analyzed Date: 01/18/2001

Collected: 01/09/2001 09:40

Type: Grab

Cas No	Analyte	MDL	Concentration	Units	Q
7439-89-6	Iron	262	**26.1**	ppb	J
7439-96-5	Manganese	1.11	**16.5**	ppb	

Sample: L3612-9
Client Sample ID: LMW-5
Matrix: Liquid
Remarks:
Analyzed Date: 01/18/2001

Collected: 01/09/2001 12:40

Type: Grab

Cas No	Analyte	MDL	Concentration	Units	Q
7439-89-6	Iron	262	**30.1**	ppb	J
7439-96-5	Manganese	1.11	**387**	ppb	

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01/25/2001

Dissolved TOC

Sample: L3612-1
Client Sample ID: MW-2
Matrix: Liquid
Remarks:
Analyzed Date: 01/22/2001
Type: Grab
Collected: 01/08/2001 12:15

Cas No	Analyte	MDL	Result	Units	Q
	TOC	0.94	10.4	ppm	

Sample: L3612-2
Client Sample ID: MW-1
Matrix: Liquid
Remarks:
Analyzed Date: 01/22/2001
Type: Grab
Collected: 01/08/2001 13:40

Cas No	Analyte	MDL	Result	Units	Q
	TOC	0.94	8.62	ppm	

Sample: L3612-3
Client Sample ID: OW-1
Matrix: Liquid
Remarks:
Analyzed Date: 01/22/2001
Type: Grab
Collected: 01/08/2001 15:25

Cas No	Analyte	MDL	Result	Units	Q
	TOC	0.94	30.5	ppm	

Sample: L3612-4
Client Sample ID: LMW-4
Matrix: Liquid
Remarks:
Analyzed Date: 01/22/2001
Type: Grab
Collected: 01/08/2001 17:25

Cas No	Analyte	MDL	Result	Units	Q
	TOC	0.94	44.6	ppm	

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01/25/2001

Dissolved TOC

Sample: L3612-5
Client Sample ID: FB-010801
Matrix: Liquid
Remarks:
Analyzed Date: 01/22/2001
Type: Blank
Collected: 01/08/2001 18:00

Cas No	Analyte	MDL	Result	Units	Q
	TOC	0.94	0.31	ppm	J

Sample: L3612-6
Client Sample ID: W-11
Matrix: Liquid
Remarks:
Analyzed Date: 01/22/2001
Type: Grab
Collected: 01/09/2001 09:45

Cas No	Analyte	MDL	Result	Units	Q
	TOC	0.94	2.19	ppm	

Sample: L3612-7
Client Sample ID: W-12
Matrix: Liquid
Remarks:
Analyzed Date: 01/22/2001
Type: Grab
Collected: 01/09/2001 09:40

Cas No	Analyte	MDL	Result	Units	Q
	TOC	0.94	8.03	ppm	

Sample: L3612-9
Client Sample ID: LMW-5
Matrix: Liquid
Remarks:
Analyzed Date: 01/22/2001
Type: Grab
Collected: 01/09/2001 12:40

Cas No	Analyte	MDL	Result	Units	Q
	TOC	0.94	16.7	ppm	

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01/25/2001

Alkalinity - EPA Method 310.1

Sample: L3612-1
Client Sample ID: MW-2
Matrix: Liquid
Remarks:
Analyzed Date: 01/15/2001
Type: Grab
Collected: 01/08/2001 12:15

Cas No	Analyte	MDL	Result	Units	Q
	Alkalinity as CaCO3	0.28	227	ppm	

Sample: L3612-2
Client Sample ID: MW-1
Matrix: Liquid
Remarks:
Analyzed Date: 01/15/2001
Type: Grab
Collected: 01/08/2001 13:40

Cas No	Analyte	MDL	Result	Units	Q
	Alkalinity as CaCO3	0.28	94.6	ppm	

Sample: L3612-3
Client Sample ID: OW-1
Matrix: Liquid
Remarks:
Analyzed Date: 01/15/2001
Type: Grab
Collected: 01/08/2001 15:25

Cas No	Analyte	MDL	Result	Units	Q
	Alkalinity as CaCO3	0.28	338	ppm	

Sample: L3612-4
Client Sample ID: LMW-4
Matrix: Liquid
Remarks:
Analyzed Date: 01/15/2001
Type: Grab
Collected: 01/08/2001 17:25

Cas No	Analyte	MDL	Result	Units	Q
	Alkalinity as CaCO3	0.28	260	ppm	

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01/25/2001

Alkalinity - EPA Method 310.1

Sample: L3612-5
Client Sample ID: FB-010801
Matrix: Liquid
Remarks:
Analyzed Date: 01/15/2001
Type: Blank
Collected: 01/08/2001 18:00

Cas No	Analyte	MDL	Result	Units	Q
	Alkalinity as CaCO3	0.28	0.98	ppm	

Sample: L3612-6
Client Sample ID: W-11
Matrix: Liquid
Remarks:
Analyzed Date: 01/15/2001
Type: Grab
Collected: 01/09/2001 09:45

Cas No	Analyte	MDL	Result	Units	Q
	Alkalinity as CaCO3	0.28	197	ppm	

Sample: L3612-7
Client Sample ID: W-12
Matrix: Liquid
Remarks:
Analyzed Date: 01/15/2001
Type: Grab
Collected: 01/09/2001 09:40

Cas No	Analyte	MDL	Result	Units	Q
	Alkalinity as CaCO3	0.28	105	ppm	

Sample: L3612-9
Client Sample ID: LMW-5
Matrix: Liquid
Remarks:
Analyzed Date: 01/15/2001
Type: Grab
Collected: 01/09/2001 12:40

Cas No	Analyte	MDL	Result	Units	Q
	Alkalinity as CaCO3	0.28	161	ppm	

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01/25/2001

Ammonia - EPA Method 350.2

Sample: L3612-1
Client Sample ID: MW-2
Matrix: Liquid
Remarks:
Analyzed Date: 01/18/2001
Type: Grab
Collected: 01/08/2001 12:15

Cas No	Analyte	MDL	Result	Units	Q
7664-41-7	Ammonia	0.44	0.23	ppm	J

Sample: L3612-2
Client Sample ID: MW-1
Matrix: Liquid
Remarks:
Analyzed Date: 01/18/2001
Type: Grab
Collected: 01/08/2001 13:40

Cas No	Analyte	MDL	Result	Units	Q
7664-41-7	Ammonia	0.44	0.44	ppm	U

Sample: L3612-3
Client Sample ID: OW-1
Matrix: Liquid
Remarks:
Analyzed Date: 01/18/2001
Type: Grab
Collected: 01/08/2001 15:25

Cas No	Analyte	MDL	Result	Units	Q
7664-41-7	Ammonia	0.44	0.44	ppm	U

Sample: L3612-4
Client Sample ID: LMW-4
Matrix: Liquid
Remarks:
Analyzed Date: 01/18/2001
Type: Grab
Collected: 01/08/2001 17:25

Cas No	Analyte	MDL	Result	Units	Q
7664-41-7	Ammonia	0.44	0.44	ppm	U

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01/25/2001

Ammonia - EPA Method 350.2

Sample: L3612-5
Client Sample ID: FB-010801
Matrix: Liquid
Remarks:
Analyzed Date: 01/18/2001
Type: Blank
Collected: 01/08/2001 18:00

Cas No	Analyte	MDL	Result	Units	Q
7664-41-7	Ammonia	0.44	0.44	ppm	U

Sample: L3612-6
Client Sample ID: W-11
Matrix: Liquid
Remarks:
Analyzed Date: 01/18/2001
Type: Grab
Collected: 01/09/2001 09:45

Cas No	Analyte	MDL	Result	Units	Q
7664-41-7	Ammonia	0.44	0.44	ppm	U

Sample: L3612-7
Client Sample ID: W-12
Matrix: Liquid
Remarks:
Analyzed Date: 01/18/2001
Type: Grab
Collected: 01/09/2001 09:40

Cas No	Analyte	MDL	Result	Units	Q
7664-41-7	Ammonia	0.44	0.44	ppm	U

Sample: L3612-9
Client Sample ID: LMW-5
Matrix: Liquid
Remarks:
Analyzed Date: 01/18/2001
Type: Grab
Collected: 01/09/2001 12:40

Cas No	Analyte	MDL	Result	Units	Q
7664-41-7	Ammonia	0.44	0.44	ppm	U

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01/25/2001

BOD by EPA Method 405.1

Sample: L3612-1
Client Sample ID: MW-2
Matrix: Liquid
Remarks:
Analyzed Date: 01/10/2001
Type: Grab
Collected: 01/08/2001 12:15

Cas No	Analyte	MDL	Result	Units	Q
	BOD	2.41	21.4	mg/l	

Sample: L3612-2
Client Sample ID: MW-1
Matrix: Liquid
Remarks:
Analyzed Date: 01/10/2001
Type: Grab
Collected: 01/08/2001 13:40

Cas No	Analyte	MDL	Result	Units	Q
	BOD	2.41	2.20	mg/l	J

Sample: L3612-3
Client Sample ID: OW-1
Matrix: Liquid
Remarks:
Analyzed Date: 01/10/2001
Type: Grab
Collected: 01/08/2001 15:25

Cas No	Analyte	MDL	Result	Units	Q
	BOD	2.41	2.70	mg/l	

Sample: L3612-4
Client Sample ID: LMW-4
Matrix: Liquid
Remarks:
Analyzed Date: 01/10/2001
Type: Grab
Collected: 01/08/2001 17:25

Cas No	Analyte	MDL	Result	Units	Q
	BOD	2.41	9.80	mg/l	

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01/25/2001

BOD by EPA Method 405.1

Sample: L3612-5
Client Sample ID: FB-010801
Matrix: Liquid
Remarks:
Analyzed Date: 01/10/2001
Type: Blank
Collected: 01/08/2001 18:00

Cas No	Analyte	MDL	Result	Units	Q
	BOD	2.41	1.60	mg/l	J

Sample: L3612-6
Client Sample ID: W-11
Matrix: Liquid
Remarks:
Analyzed Date: 01/10/2001
Type: Grab
Collected: 01/09/2001 09:45

Cas No	Analyte	MDL	Result	Units	Q
	BOD	2.41	5.00	mg/l	

Sample: L3612-7
Client Sample ID: W-12
Matrix: Liquid
Remarks:
Analyzed Date: 01/10/2001
Type: Grab
Collected: 01/09/2001 09:40

Cas No	Analyte	MDL	Result	Units	Q
	BOD	2.41	21.0	mg/l	

Sample: L3612-9
Client Sample ID: LMW-5
Matrix: Liquid
Remarks:
Analyzed Date: 01/10/2001
Type: Grab
Collected: 01/09/2001 12:40

Cas No	Analyte	MDL	Result	Units	Q
	BOD	2.41	77.0	mg/l	

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01/25/2001

Chloride-EPA Method 325.2

Sample: L3612-1
Client Sample ID: MW-2
Matrix: Liquid
Remarks:
Analyzed Date: 01/11/2001
Type: Grab
Collected: 01/08/2001 12:15

Cas No	Analyte	MDL	Result	Units	Q
16887-00-6	Chloride	0.052	220	ppm	

Sample: L3612-2
Client Sample ID: MW-1
Matrix: Liquid
Remarks:
Analyzed Date: 01/11/2001
Type: Grab
Collected: 01/08/2001 13:40

Cas No	Analyte	MDL	Result	Units	Q
16887-00-6	Chloride	0.052	103	ppm	

Sample: L3612-3
Client Sample ID: OW-1
Matrix: Liquid
Remarks:
Analyzed Date: 01/11/2001
Type: Grab
Collected: 01/08/2001 15:25

Cas No	Analyte	MDL	Result	Units	Q
16887-00-6	Chloride	0.052	191	ppm	

Sample: L3612-4
Client Sample ID: LMW-4
Matrix: Liquid
Remarks:
Analyzed Date: 01/11/2001
Type: Grab
Collected: 01/08/2001 17:25

Cas No	Analyte	MDL	Result	Units	Q
16887-00-6	Chloride	0.052	56.3	ppm	

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01/25/2001

Chloride-EPA Method 325.2

Sample: L3612-5
Client Sample ID: FB-010801
Matrix: Liquid
Remarks:
Analyzed Date: 01/11/2001
Type: Blank
Collected: 01/08/2001 18:00

Cas No	Analyte	MDL	Result	Units	Q
16887-00-6	Chloride	0.052	0.052	ppm	U

Sample: L3612-6
Client Sample ID: W-11
Matrix: Liquid
Remarks:
Analyzed Date: 01/11/2001
Type: Grab
Collected: 01/09/2001 09:45

Cas No	Analyte	MDL	Result	Units	Q
16887-00-6	Chloride	0.52	6160	ppm	

Sample: L3612-7
Client Sample ID: W-12
Matrix: Liquid
Remarks:
Analyzed Date: 01/12/2001
Type: Grab
Collected: 01/09/2001 09:40

Cas No	Analyte	MDL	Result	Units	Q
16887-00-6	Chloride	0.52	5470	ppm	

Sample: L3612-9
Client Sample ID: LMW-5
Matrix: Liquid
Remarks:
Analyzed Date: 01/12/2001
Type: Grab
Collected: 01/09/2001 12:40

Cas No	Analyte	MDL	Result	Units	Q
16887-00-6	Chloride	0.52	524	ppm	

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01/25/2001

Chemical Oxygen Demand by EPA 410.4

Sample: L3612-1
Client Sample ID: MW-2
Matrix: Liquid
Remarks:
Analyzed Date: 01/18/2001
Type: Grab
Collected: 01/08/2001 12:15

Cas No	Analyte	MDL	Result	Units	Q
	COD	4.80	33.5	ppm	

Sample: L3612-2
Client Sample ID: MW-1
Matrix: Liquid
Remarks:
Analyzed Date: 01/18/2001
Type: Grab
Collected: 01/08/2001 13:40

Cas No	Analyte	MDL	Result	Units	Q
	COD	4.80	39.9	ppm	

Sample: L3612-3
Client Sample ID: OW-1
Matrix: Liquid
Remarks:
Analyzed Date: 01/18/2001
Type: Grab
Collected: 01/08/2001 15:25

Cas No	Analyte	MDL	Result	Units	Q
	COD	4.80	102	ppm	

Sample: L3612-4
Client Sample ID: LMW-4
Matrix: Liquid
Remarks:
Analyzed Date: 01/18/2001
Type: Grab
Collected: 01/08/2001 17:25

Cas No	Analyte	MDL	Result	Units	Q
	COD	4.80	76.3	ppm	

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01/25/2001

Chemical Oxygen Demand by EPA 410.4

Sample: L3612-5
Client Sample ID: FB-010801
Matrix: Liquid
Remarks:
Analyzed Date: 01/18/2001
Type: Blank
Collected: 01/08/2001 18:00

Cas No	Analyte	MDL	Result	Units	Q
	COD	4.80	12.1	ppm	

Sample: L3612-6
Client Sample ID: W-11
Matrix: Liquid
Remarks:
Analyzed Date: 01/18/2001
Type: Grab
Collected: 01/09/2001 09:45

Cas No	Analyte	MDL	Result	Units	Q
	COD	9.60	3220	ppm	

Sample: L3612-7
Client Sample ID: W-12
Matrix: Liquid
Remarks:
Analyzed Date: 01/18/2001
Type: Grab
Collected: 01/09/2001 09:40

Cas No	Analyte	MDL	Result	Units	Q
	COD	4.80	4910	ppm	

Sample: L3612-9
Client Sample ID: LMW-5
Matrix: Liquid
Remarks:
Analyzed Date: 01/18/2001
Type: Grab
Collected: 01/09/2001 12:40

Cas No	Analyte	MDL	Result	Units	Q
	COD	4.80	7970	ppm	

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01/25/2001

Nitrogen/Nitrate by EPA Method 353.2

Sample: L3612-1
Client Sample ID: MW-2
Matrix: Liquid
Remarks:
Analyzed Date: 01/10/2001
Type: Grab
Collected: 01/08/2001 12:15

Cas No	Analyte	MDL	Result	Units	Q
14797-55-8	Nitrate	0.015	0.015	ppm	U

Sample: L3612-2
Client Sample ID: MW-1
Matrix: Liquid
Remarks:
Analyzed Date: 01/10/2001
Type: Grab
Collected: 01/08/2001 13:40

Cas No	Analyte	MDL	Result	Units	Q
14797-55-8	Nitrate	0.015	0.12	ppm	

Sample: L3612-3
Client Sample ID: OW-1
Matrix: Liquid
Remarks:
Analyzed Date: 01/10/2001
Type: Grab
Collected: 01/08/2001 15:25

Cas No	Analyte	MDL	Result	Units	Q
14797-55-8	Nitrate	0.015	0.087	ppm	

Sample: L3612-4
Client Sample ID: LMW-4
Matrix: Liquid
Remarks:
Analyzed Date: 01/10/2001
Type: Grab
Collected: 01/08/2001 17:25

Cas No	Analyte	MDL	Result	Units	Q
14797-55-8	Nitrate	0.015	0.042	ppm	

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01/25/2001

Nitrogen/Nitrate by EPA Method 353.2

Sample: L3612-5
Client Sample ID: FB-010801
Matrix: Liquid
Remarks:
Analyzed Date: 01/10/2001
Type: Blank
Collected: 01/08/2001 18:00

Cas No	Analyte	MDL	Result	Units	Q
14797-55-8	Nitrate	0.015	0.056	ppm	

Sample: L3612-6
Client Sample ID: W-11
Matrix: Liquid
Remarks:
Analyzed Date: 01/10/2001
Type: Grab
Collected: 01/09/2001 09:45

Cas No	Analyte	MDL	Result	Units	Q
14797-55-8	Nitrate	0.015	0.050	ppm	

Sample: L3612-7
Client Sample ID: W-12
Matrix: Liquid
Remarks:
Analyzed Date: 01/10/2001
Type: Grab
Collected: 01/09/2001 09:40

Cas No	Analyte	MDL	Result	Units	Q
14797-55-8	Nitrate	0.015	1.30	ppm	

Sample: L3612-9
Client Sample ID: LMW-5
Matrix: Liquid
Remarks:
Analyzed Date: 01/10/2001
Type: Grab
Collected: 01/09/2001 12:40

Cas No	Analyte	MDL	Result	Units	Q
14797-55-8	Nitrate	0.015	0.11	ppm	

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01/25/2001

Nitrogen/Nitrite by EPA Method 354.1

Sample: L3612-1
Client Sample ID: MW-2
Matrix: Liquid
Remarks:
Analyzed Date: 01/10/2001
Type: Grab
Collected: 01/08/2001 12:15

Cas No	Analyte	MDL	Result	Units	Q
14797-65-0	Nitrite	0.023	0.023	ppm	U

Sample: L3612-2
Client Sample ID: MW-1
Matrix: Liquid
Remarks:
Analyzed Date: 01/10/2001
Type: Grab
Collected: 01/08/2001 13:40

Cas No	Analyte	MDL	Result	Units	Q
14797-65-0	Nitrite	0.023	0.023	ppm	U

Sample: L3612-3
Client Sample ID: OW-1
Matrix: Liquid
Remarks:
Analyzed Date: 01/10/2001
Type: Grab
Collected: 01/08/2001 15:25

Cas No	Analyte	MDL	Result	Units	Q
14797-65-0	Nitrite	0.023	0.013	ppm	J

Sample: L3612-4
Client Sample ID: LMW-4
Matrix: Liquid
Remarks:
Analyzed Date: 01/10/2001
Type: Grab
Collected: 01/08/2001 17:25

Cas No	Analyte	MDL	Result	Units	Q
14797-65-0	Nitrite	0.023	0.023	ppm	U

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01/25/2001

Nitrogen/Nitrite by EPA Method 354.1

Sample: L3612-5
Client Sample ID: FB-010801
Matrix: Liquid
Remarks:
Analyzed Date: 01/10/2001
Type: Blank
Collected: 01/08/2001 18:00

Cas No	Analyte	MDL	Result	Units	Q
14797-65-0	Nitrite	0.023	0.023	ppm	U

Sample: L3612-6
Client Sample ID: W-11
Matrix: Liquid
Remarks:
Analyzed Date: 01/10/2001
Type: Grab
Collected: 01/09/2001 09:45

Cas No	Analyte	MDL	Result	Units	Q
14797-65-0	Nitrite	0.023	0.016	ppm	J

Sample: L3612-7
Client Sample ID: W-12
Matrix: Liquid
Remarks:
Analyzed Date: 01/10/2001
Type: Grab
Collected: 01/09/2001 09:40

Cas No	Analyte	MDL	Result	Units	Q
14797-65-0	Nitrite	0.023	0.015	ppm	J

Sample: L3612-9
Client Sample ID: LMW-5
Matrix: Liquid
Remarks:
Analyzed Date: 01/10/2001
Type: Grab
Collected: 01/09/2001 12:40

Cas No	Analyte	MDL	Result	Units	Q
14797-65-0	Nitrite	0.023	0.018	ppm	J

Environmental Testing Laboratories, Inc.
208 Route 109, Farmingdale NY 11735
Phone - 631-249-1456 Fax - 631-249-8344

01/25/2001

Sulfate by EPA Method 375.4

Sample: L3612-1
Client Sample ID: MW-2
Matrix: Liquid
Remarks:
Analyzed Date: 01/24/2001
Type: Grab
Collected: 01/08/2001 12:15

Cas No	Analyte	MDL	Result	Units	Q
14808-79-8	Sulfate	0.56	68.2	ppm	

Sample: L3612-2
Client Sample ID: MW-1
Matrix: Liquid
Remarks:
Analyzed Date: 01/24/2001
Type: Grab
Collected: 01/08/2001 13:40

Cas No	Analyte	MDL	Result	Units	Q
14808-79-8	Sulfate	0.56	36.9	ppm	

Sample: L3612-3
Client Sample ID: OW-1
Matrix: Liquid
Remarks:
Analyzed Date: 01/24/2001
Type: Grab
Collected: 01/08/2001 15:25

Cas No	Analyte	MDL	Result	Units	Q
14808-79-8	Sulfate	0.56	93.3	ppm	

Sample: L3612-4
Client Sample ID: LMW-4
Matrix: Liquid
Remarks:
Analyzed Date: 01/24/2001
Type: Grab
Collected: 01/08/2001 17:25

Cas No	Analyte	MDL	Result	Units	Q
14808-79-8	Sulfate	0.56	36.1	ppm	

Environmental Testing Laboratories, Inc.
208 Route 109, Farmingdale NY 11735
Phone - 631-249-1456 Fax - 631-249-8344

01/25/2001

Sulfate by EPA Method 375.4

Sample: L3612-5
Client Sample ID: FB-010801
Matrix: Liquid
Remarks:
Analyzed Date: 01/24/2001
Type: Blank
Collected: 01/08/2001 18:00

Cas No	Analyte	MDL	Result	Units	Q
14808-79-8	Sulfate	0.56	0.56	ppm	U

Sample: L3612-6
Client Sample ID: W-11
Matrix: Liquid
Remarks:
Analyzed Date: 01/24/2001
Type: Grab
Collected: 01/09/2001 09:45

Cas No	Analyte	MDL	Result	Units	Q
14808-79-8	Sulfate	5.58	1800	ppm	

Sample: L3612-7
Client Sample ID: W-12
Matrix: Liquid
Remarks:
Analyzed Date: 01/24/2001
Type: Grab
Collected: 01/09/2001 09:40

Cas No	Analyte	MDL	Result	Units	Q
14808-79-8	Sulfate	5.58	1320	ppm	

Sample: L3612-9
Client Sample ID: LMW-5
Matrix: Liquid
Remarks:
Analyzed Date: 01/24/2001
Type: Grab
Collected: 01/09/2001 12:40

Cas No	Analyte	MDL	Result	Units	Q
14808-79-8	Sulfate	5.58	1860	ppm	

Environmental Testing Laboratories, Inc.

208 Route 109, Farmingdale NY 11735

Phone - 631-249-1456 Fax - 631-249-8344

01/25/2001

Total Organic Carbon (TOC) by Method 415.1

Sample: L3612-1

Client Sample ID: MW-2

Matrix: Liquid

Remarks:

Analyzed Date: 01/22/2001

Type: Grab

Collected: 01/08/2001 12:15

Cas No	Analyte	MDL	Result	Units	Q
	TOC	0.94	11.6	ppm	

Sample: L3612-2

Client Sample ID: MW-1

Matrix: Liquid

Remarks:

Analyzed Date: 01/22/2001

Type: Grab

Collected: 01/08/2001 13:40

Cas No	Analyte	MDL	Result	Units	Q
	TOC	0.94	17.5	ppm	

Sample: L3612-3

Client Sample ID: OW-1

Matrix: Liquid

Remarks:

Analyzed Date: 01/22/2001

Type: Grab

Collected: 01/08/2001 15:25

Cas No	Analyte	MDL	Result	Units	Q
	TOC	0.94	54.7	ppm	

Sample: L3612-4

Client Sample ID: LMW-4

Matrix: Liquid

Remarks:

Analyzed Date: 01/22/2001

Type: Grab

Collected: 01/08/2001 17:25

Cas No	Analyte	MDL	Result	Units	Q
	TOC	0.94	67.2	ppm	

Environmental Testing Laboratories, Inc.
208 Route 109, Farmingdale NY 11735
Phone - 631-249-1456 Fax - 631-249-8344

01/25/2001

Total Organic Carbon (TOC) by Method 415.1

Sample: L3612-5
Client Sample ID: FB-010801
Matrix: Liquid
Remarks:
Analyzed Date: 01/22/2001
Type: Blank
Collected: 01/08/2001 18:00

Cas No	Analyte	MDL	Result	Units	Q
	TOC	0.94	0.94	ppm	

Sample: L3612-6
Client Sample ID: W-11
Matrix: Liquid
Remarks:
Analyzed Date: 01/22/2001
Type: Grab
Collected: 01/09/2001 09:45

Cas No	Analyte	MDL	Result	Units	Q
	TOC	0.94	26.8	ppm	

Sample: L3612-7
Client Sample ID: W-12
Matrix: Liquid
Remarks:
Analyzed Date: 01/22/2001
Type: Grab
Collected: 01/09/2001 09:40

Cas No	Analyte	MDL	Result	Units	Q
	TOC	0.94	13.2	ppm	

Sample: L3612-9
Client Sample ID: LMW-5
Matrix: Liquid
Remarks:
Analyzed Date: 01/22/2001
Type: Grab
Collected: 01/09/2001 12:40

Cas No	Analyte	MDL	Result	Units	Q
	TOC	0.94	29.2	ppm	

Vaportech Services, Inc.

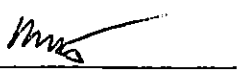
LAW1-12026

Law Engineering & Environmental Services, Inc.
Project: 22000-0-0026
-- WATER SAMPLES --

SAMPLE NAME	CARBON DIOXIDE (mg/l)	OXYGEN (mg/l)	NITROGEN (mg/l)	METHANE (mg/l)	FILE NAME	DATE COLLECTED	DATE RECEIVED	DATE ANALYZED
MW-1	16.9	3.52	14.8	ND	D13B3.86A	01/08/2001	01/12/2001	01/16/2001
OW-1	65.7	0.19	14.7	ND	D13B3.87A	01/08/2001	01/12/2001	01/16/2001
W-11	27.3	ND	12.4	0.44	D13B3.88A	01/09/2001	01/12/2001	01/16/2001
LMW-5	26.2	ND	13.3	ND	D13B3.89A	01/09/2001	01/12/2001	01/16/2001
MW-3R	114.8	ND	3.2	16.50	D13B3.90A	01/09/2001	01/12/2001	01/16/2001
W-2	60.7	ND	11.3	0.49	D13B3.91A	01/10/2001	01/12/2001	01/16/2001
LMW-2	104.3	ND	7.6	9.35	D13B3.92A	01/10/2001	01/12/2001	01/16/2001
MDL	0.4	0.15	0.4	0.07				

MDL - lower 'Method Detection Limit'
ND - 'Not Detected' at or above the lower method detection limit

17-Jan-2001

Reviewed by 

LAW-12026

CHAIN-OF-CUSTODY RECORD

VAPORTECH Services, Inc.

1158 Pittsburgh Road • Suite 201 • Valencia, PA 16059
Tel: 724-898-2622 • Fax: 724-898-2633

Company Name: LAW Engineering & Environmental
Address: 301 Oxford Valley Rd, Ste 202
City: YARDLEY State: PA Zip: 19067
Proj. Manager: Doug Newton
Proj. Location: Island Park, NY
Proj. Number: 22000-0-0026
Phone #: 215-7369-1000 Fax #: 215-369-5380

Sampler's signature:

Analysis Options: Enter letters in Requested Analysis columns below.

A	Light Hydrocarbons	F	BTEX
B	Permanent Gases	G	BTEX & C5 - C10
C	Methane	H	TPH (C4 - C12 range)
D	Methane, Ethane, Ethylene	I	Chlorinated Hydrocarbons
E	Hydrogen	J	624 Compound List

Light Hydrocarbons: Methane, Ethane, Ethylene, Propane, Propylene, iso-Butane, n-Butane
Permanent Gases: Carbon Dioxide, Oxygen, Nitrogen, Methane, Carbon Monoxide
BTEX: Benzene, Toluene, Ethyl Benzene, m & p -Xylene, o-Xylene
C5-C10: Pentane, Hexane, Heptane, Octane, Nonane, Decane
Chlorinated HC: 1,1-DCE, 1,1-DCA, Methylene Chloride, trans-1,2-DCE, cis-1,2-DCE, Chloroform 1,1,1-TCA, Carbon Tetrachloride, Trichloroethylene (TCE), Tetrachloroethylene (PCE)

Collection Date	Collection Time	Number of Containers	Sample Type	Sample Identification	Requested Analysis (Other)	Remarks
1/8/01	1340	2	GW	MW-1	CO_2, O_2, N_2, Methane	
↓	1525	2	GW	OW-1	↓	
1/9/01	0945	2	GW	W-11	↓	
↓	1240	2	GW	LMW-5	↓	
↓	1550	2	GW	MW-3R	↓	
1/10/01	1030	2	GW	W-2	↓	
↓	1240	2	GW	LMW-2	↓	

Results to: Doug Newton – LAW Eng + Env.

Invoice to: Michael Fosillico Blue Island Dev. LLC 1610 New Highway Farmingdale, NY 11735

Relinquished by:	Company: LAW Engr Envr	Date: 1/11/01	Time: 1400	Received by:	Company: Vaportech	Date: 1/12/01	Time: 1000
Relinquished by:	Company:	Date:	Time:	Received by:	Company:	Date:	Time:
Relinquished by:	Company:	Date:	Time:	Received by:	Company:	Date:	Time:

VAPORTECH
Services, Inc.

Analytical Laboratory & Geoprobe Sampling

RECEIVED
JAN 2 5 2001
LAW-GIBB GROUP

1/17/01

Doug Newton
Law Engineering & Environmental Services, Inc.
301 Oxford Valley Road
Suite 202
Yardley, PA 19067

Dear Doug:

Enclosed are the sample data report, chain of custody record and quality control data for the samples received on January 12, 2001 for your project; #22000-0-0026.

Please give me a call if you have questions or I can be of further assistance. Thank you for using Vaportech Services.

Sincerely,

David J. Masdea

Enclosure:

1158 Pittsburgh Road • Suite 201 • Valencia, PA 16059
Tel.: 724-898-2622 • Fax: 724-898-2633

Vaportech Services, Inc.

LAW1-12026

Law Engineering & Environmental Services, Inc.
Project: 22000-0-0026
-- WATER SAMPLES --

QUALITY CONTROL

CONTINUING CALIBRATION CHECK

STANDARD: "237"
FILE NAME: D13B3.69A

COMPOUND	KNOWN (%)	RESULT (%)	PERCENT DIFFERENCE
Carbon Dioxide	15.00	14.82	1.20
Oxygen	7.01	7.01	0.03
Nitrogen	66.48	66.12	0.54
Methane	4.51	4.46	1.04

LABORATORY BLANK RESULTS

BLANK: CARRIER IN LOOP
FILE NAME: D13B3.67A

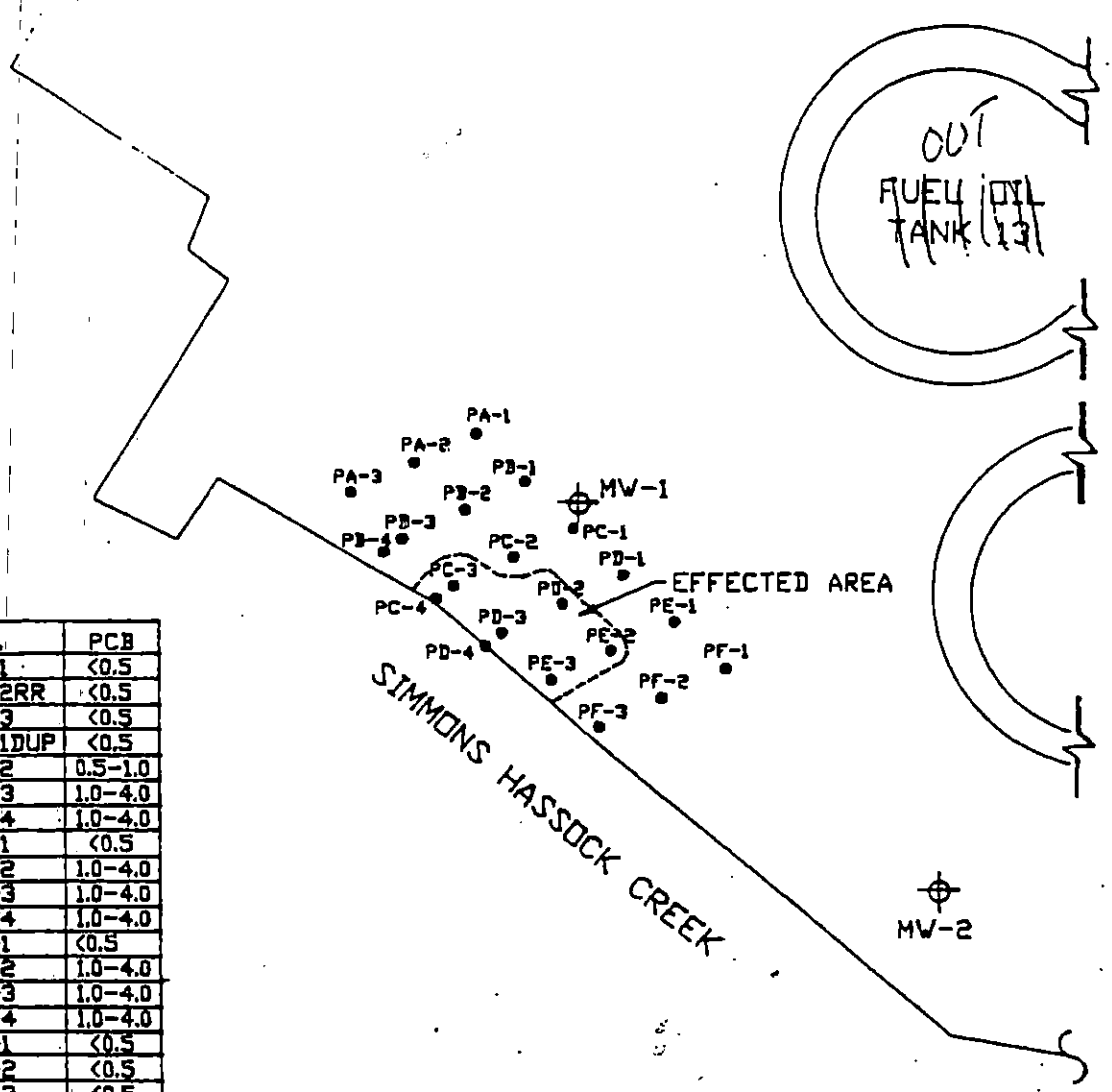
COMPOUND	BLANK (%)	METHOD DETECTION LIMIT (%)
Carbon Dioxide	ND	0.03
Oxygen	ND	0.03
Nitrogen	ND	0.10
Methane	ND	0.03

ND - 'Not Detected' at or above the lower method detection limit

17-Jan-2001

Reviewed by _____

APPENDIX D



LOC.	PCB
PA-1	<0.5
PA-2RR	<0.5
PA-3	<0.5
PB-1DUP	<0.5
PB-2	0.5-1.0
PB-3	1.0-4.0
PB-4	1.0-4.0
PC-1	<0.5
PC-2	1.0-4.0
PC-3	1.0-4.0
PC-4	1.0-4.0
PD-1	<0.5
PD-2	1.0-4.0
PD-3	1.0-4.0
PD-4	1.0-4.0
PE-1	<0.5
PE-2	<0.5
PE-3	<0.5
PF-1	<0.5
PF-2	<0.5
PF-3	<0.5

LEGEND

PE-2 - PCB SOIL SAMPLE LOCATION AND DESIGNATI

NOTE

ALL CONCENTRATIONS IN MILLIGRA PER KILOGRAM

Subsurface Investigations

A DIVISION OF THE ENVIROVISION GROUP, I
331 Route 9W, Congers, NY 10920
Tel: (914) 268-6660 FAX: (914) 268-2

PROJECT NAME:	CIBRO FORMER PETROLEUM TE
DRAWING TITLE:	PCB SOIL SAMPLE LOCATIO AND SCREENING RESULTS
SCALE: 1"=80'	DATE: 06-20-94 FIG
DRAWN BY:	

APPENDIX E

BLUE WATER ENVIRONMENTAL INC.

REQUIRED TESTS
FOR DISPOSAL OF CONTAMINATED SOILS

CLASS I

Blue Water Environmental, Inc. has determined that on projects where there is no risk of cross contamination other than that from virgin petroleum spills, a CLASS I testing procedure may be implemented to minimize testing expenses.

A. TCLP Analysis (EPA Method SW 1311)
- * Benzene
- * Lead

B. Purgeable Aromatics (EPA Method 8020)
- * Benzene
- Toluene
- Ethylbenzene
- Xylenes

C. *T.P.H. (EPA METHOD 418.1)

*** PERMIT MINIMUMS**

CLASS II

On projects where the potential for cross contamination exists, a CLASS II test requirement would be necessary as a basis of testing non-hazardous virgin petroleum spills.

A. TCLP Lab Analysis (EPA Method SW 846 & SW 1311)
- Volatile/Semi-Volatile Compounds
- 8 RCRA Metals

B. Flashpoint Analysis (EPA Method SW 1010)
C. Corrosivity Analysis (EPA Method SW 1110)
D. Reactivity Analysis (EPA Methods SW 9010 & SW 9030)
E. Total Petroleum Hydrocarbons (EPA method 418.1)
F. Purgeable Aromatics (EPA Method 8020)
G. PCB Analysis (EPA Method 8080)

As per current permit requirements,
all projects must be accompanied by a NYSDEC spill number

1910 NEW HIGHWAY, FARMINGDALE, NEW YORK 11735-1524 • FAX (516) 249-8124 • TELEPHONE (516) 752-2145

BLUE WATER ENVIRONMENTAL INC.

PREPARED BY:_____ DATE:_____

* * CONTAMINATED PROFILE SHEET * *

BLUE WATER CUSTOMER:_____ CONTACT:_____

_____ TEL. NO.:_____

_____

JOB DESCRIPTION:

GENERATOR: _____ CONTACT:_____

(LOCATION):_____ TEL. NO.:_____

_____

P.O. NO:_____ NYSDEC SPILL NO:_____

SOIL TYPE:_____ NYSDEC CONTACT: _____

ESTIMATED QTY:_____ TONS/C.Y. NYSDEC TEL. NO: _____

LAB NAME:_____

NYS LAB ID NO:_____

CONTAMINATED TYPE: CONTAMINATED SOURCE:

GASOLINE:_____ UNDERGROUND TANK:_____

FUEL OIL:_____ SURFACE SPILL:_____

OTHER:_____ OTHER:_____

TRUCKING BY:_____ PERMIT NO.:_____

_____

_____

REMARKS:_____

_____

_____

1610 NEW HIGHWAY, FARMINGDALE, NEW YORK 11735-1534 • FAX (516) 249-8124 • TELEPHONE (516) 752-2145

APPENDIX F

ZEBRA... *probes smarter!!*

Turn Key Source for HRC® & ORC® Injection

Hydrogen Release Compound (HRC)

HRC is a polylactate ester used to remediate anaerobically degradable chlorinated hydrocarbons such as as PCE (percholorethylene) and TCE (trichloroethylene). Upon contact with water, HRC slowly releases lactic acid. Microbes metabolize the lactic acid, release hydrogen and use it for bioremediation. HRC's patented time-released feature provides a steady hydrogen source for a minimum of six months to a year. HRC is injected by ZEBRA into the subsurface using direct-push technologies.

Oxygen Release Compound (ORC)

ORC is a patented formulation of magnesium peroxide tha slowly releases oxygen upon hydration for about six month to one year. By providing a long-lasting oxygen supply, ORC can accelerate remediation of any aerobically degradabl compound, such as BTEX, MTBE and vinyl chloride. ORC is injected into the aquifer by ZEBRA using direct-pus technologies.

Due to the increased demand for Regenesis' HRC® and ORC®, ZEBRA is now providing the mos complete injection services available anywhere.

Compare The Convenience and Cost of Our Total Packages:

	30-510 lbs.	511-3,000 lbs.	> 3,001 lbs.
HRC® Purchase	$8.00/lb.	$7.50/lb.	$6.75/lb.
Daily Probe Crew Rate Includes two (2) man crew, fully-equipped Geoprobe unit and Rupe injection system (on site for 8 hrs.)	$1,295./day	$1,195./day	$1,095./day
Injection Charge	$12./pt	$10./pt	$10./pt
HRC® Delivery Charge	N/C	N/C*	$.35/lb.*

	30-510 lbs.	511-3,000 lbs.	> 3,001 lb
ORC® Purchase	$10.00/lb.	$9.75/lb.	$9.25/lb
Daily Probe Crew Rate Includes two (2) man crew, fully-equipped Geoprobe unit and injection system (on site for 8 hrs.)	$1,195./day	$1,100./day	$990./da
Injection Charge	$10./pt	$8./pt	$8./pt
ORC® Delivery Charge	N/C	N/C*	$.35/lb.*

* Delivery charges may vary depending on project duration and location. Whenever pratical ZEBRA will transport the product to the site with our probe crews.

Probe Crew Mobilization & Demobilization (and Per Diem if applicable) will be quoted on a project-specifi basis. Acceptable payment terms, scheduling and delivery time must be finalized prior to project mobilizatior Please note that emergency/last-minute orders may require additional shipping charges. Please call ZEBR for a project-specific proposal to confirm your total project cost.

Please Note: Acceptable credit history and payment terms must be established prior to shipment of produc The unit prices for both HRC and ORC are discounted and are contingent on receiving payment in accordanc with terms in the project specific quotation.

Call ZEBRA for a complete proposal: **1-800-PROBE IT**
(776-2348)

Serving The East Coast From Maine to Florida

ZEBRA... *probes smarter!!*

TURN KEY INJECTION SERVICES

During the past few years ZEBRA has worked closely with our clients to promot **INSITU BIOAUGMENTATION AND CHEMICAL TREATMENT** through the subsurface injection c a wide range of products. These products include: **BIONUTRIENTS, OXYGEN GENERATORS ENZYMES, BIOSTIMULANTS AND CHEMICAL REAGENTS.**

ZEBRA has the Tools & Experience to inject the product best suited for you remediation efforts.

In addition to injecting numerous products manufactured by other companies, ZEBRA has develope a close working relationship with Regenesis Bioremidiation Products of San Clemente, California.

- ZEBRA has **INJECTED MORE OCR®** than any other contractor on the East Coast and,
- ZEBRA has **INJECTED HRC® DEEPER** than any other DP contractor.

Please see the reverse side of this flyer for more information on these two Regenesis products.

Complete Turn Key Injection Services:

1) ZEBRA will accept delivery of the product you have selected at one of our branch locations and wil deliver it to your project site with our probe crews. We have found that this can greatl improve/streamline project implementation.

2) ZEBRA can provide fully equipped Geoprobe units (with a two (2) man crew) and all o the required high-pressure pump systems (both Rupe & GS1000 pumps) and injection tools neede to inject the product where you want it.

3) ZEBRA will mix and inject the product as specified by the product manufacturer and/or our client ZEBRA encourages all of our clients to interact directly with the product manufacturer in order t determine the applicability of the product to their particular site.

4) As always, in addition to injecting the product you select, the ZEBRA probe crew can also provid the widest range of direct push services available. ZEBRA can assist you in all phases of sit remediation including site characterization, injection, and performance monitoring. While on site maximize your impact by collecting soil or groundwater samples, installing small diamete monitoring points, or logging stratigraphic characteristics and volatile organic contaminan distribution with ZEBRA's Direct Sensing, MIP and Soil Conductivity System.

Call ZEBRA for a complete proposal: **1-800-PROBE IT**
(776-2348)

Serving The East Coast From Maine to Florida

Pre-packed Well Screens

The first new development involves a custom manufactured flush threaded PVC screen wrapped with stainless steel mesh containing a filter grade sand. This configuration of stainless steel mesh, pre-packed sand filter, and .020" slotted PVC screen closely parallels the ASTM standards associated with conventional monitoring wells.

ZEBRA is able to place these pre-packed screens by driving a 2⅛" or 3¼" O.D. steel casing fitted with an anchor/drive point to the desired depth. The screen (which measures approximately 1.75" O.D X .5" I.D X 2.5' long) is then inserted down the interior cavity of the drive casing and engaged onto the anchor point. The casing is then withdrawn and the pre-packed screen is left in place. If it is necessary to isolate the screened portion of the wellpoint, ZEBRA has developed techniques to introduce glass beads followed by bentonite while placing the screen down the inside of the drive casing. Cement/bentonite grout can then be pumped either down the casing during retrieval or down the open probe hole.

Oxygen Release Compound

The second new development involves the placement of Oxygen Release Compound (ORC©) using probes instead of larger diameter monitoring wells. ORC© is an innovative technology which provides a prolonged release of oxygen to facilitate the bioremediation of hydrocarbons in soil and groundwater. ZEBRA can place this material cost-effectively using percussion probe units, either by installing a small diameter "column" of granular materials or by injecting a "slurry" mixture. The ease of placement allows the positioning of treatment/injection points wherever they are needed throughout the site.

Hydrogen Release Compound

The third new development involves the injecting of Hydrogen Release Compound (HRC©) into the subsurface using small diameter probe rods and a high-capacity injection pump. HRC© is a specially formulated lactic acid–based compound developed by Regenesis, which facilitates anaerobic bioremediation of halogenated hydrocarbons by prolonged release of hydrogen (protons) into impacted aquifer. ZEBRA can place the HRC© cost-effectively using any of its Geoprobe units and a new RUPE injection pump.

Membrane Interface Probe

The fourth new development involves the Membrane Interface Probe (MIP), a percussion tolerant VOC sensor that can continuously log volatile organics that diffuse through a semi-permeable membrane. Using a carrier gas, the VOCs are brought to the surface through tubing which is connected to a laboratory grade PID, FID and ECD for immediate analysis. ZEBRA is currently using an O.I. Analytical Model 4410 Flame Ionization Detector and an O.I. Analytical Model 4430 Photoionization Detector. In response to our client's requests to use the MIP on sites where chlorinated solvents were present, ZEBRA has added an Electron Capture Detector (ECD) to the MIP system.

APPENDIX G

GENERAL

HEALTH AND SAFETY

PLAN

Prepared By: Blue Water Environmental, Inc.
1610 New Highway
Farmingdale, NY 11735

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VI - OTHER SAFETY PROCEDURES..... PAGES 7 - 9

VII - SITE CONTROL MAPS/DRAWINGS..... PAGE 10

I- INTRODUCTION

The purpose of this Health and Safety Plan (HASP) is to define the requirements and designate protocols to be followed at sites in which Blue Water Environmental, Inc. personnel are working. Applicability extends to all government employees, contractors, subcontractors, and visitors.

All personnel on-site, contractors and subcontractors included, shall be informed of the site emergency response procedures and any potential fire, explosion, health, or safety hazards of the operation being conducted.

This plan must be reviewed and an agreement to comply with the requirements must be signed by all personnel prior to entering the Exclusion Zone.

During development of this plan, considerations was given to current safety standards as defined by EPA/OSHA/NIOSH, and health effects and standards for known contaminants, and procedures designed to account for the potential for exposure to unknown substances. Specifically, the following reference sources have been considered:

- OSHA 29 CFR 1910.120, 29CFR 1926.52 and EPA 40 CFR 311
- NIOSH Pocket Guide to Chemical Hazards

Blue Water Environmental, Inc. has prepared this HASP to safe guard the health and safety of all personnel working at or involved with the operations conducted at any site. Any modifications, which will serve to improve this plan or a site specific HASP will be included as addendum to this plan.

II - STAFF ORGANIZATION

Blue Water Environmental, Inc. has designated the following personnel and assigned their responsibilities and authorities as described below:

- Health and Safety Officer (HSO) - The HSO shall have the authority to command sufficient resources to safely perform the work as outlined in the contract documents. All correspondence related to site health and safety must be directed to the HSO. The HSO is responsible for day-to-day industrial hygiene support, including air monitoring, training, and site safety inspections. The HSO shall remain on-site during all projects operations. The HSO shall have; a sound working knowledge of occupational safety and health regulations, experience on the type of project described in a particular contract.

- Field Superintendent - The on site activities of a project will be under the control of the field superintendent. The field superintendent shall have demonstrable experience in construction activities and with hazardous materials remediation work.

- Site Foreman - The site foremen will oversee specific project tasks under the direct of the field supervisor. The foreman will be trained and experienced in activities involving hazardous materials, confined spaces, and other related activities.

- On-Site Workers - All on site personnel who will have access to an Exclusion Zone and will possess the following credentials:

  1. Have completed a forty-hour health and safety course or refresher-training course within the last year.

  2. Have completed a medical monitoring exam within the last year.

  3. Have passed a fit test for any respirator, which may be available at the site.

  4. Workers who will be performing confined space entry will have completed a confined space entry safety course.

III - HAZARD EVALUATION

An evaluation of potential hazards associated with on-site activities must be completed utilizing site history and existing data. Exposure levels for compounds present on the site will be used to determine action levels for site activities.

Direct

- Inhalation of contaminated dusts during excavation activities in.
- Dermal contact with contaminated dirt and dusts.

Potential physical hazards, which may be encountered during activities, include:

- Exposure to high noise levels from the operation and support of heavy equipment throughout a project.
- Potential physical injuries may result from the operation of, or working within close proximity to heavy equipment.
- Working near trenching, excavated areas, and within a project site may encounter soft ground, subsurface voids, or unstable footing.
- Heat stress hazards due to PPE and hot weather conditions.
- Electrical shock hazards due to the use of electrically powered tools and equipment.
- Fire and explosion hazards due to the use of flammable fuels, liquids and gases in association with tools and equipment.
- Other miscellaneous slips, trips and fall hazards.

Indirect

- Ingestion of contaminated dusts and dirt due to poor personal hygiene and improper decontamination.

- Cross contamination of tools and equipment outside of the exclusion zone due to poor engineering controls or improper decontamination practices. This cross contamination could result in exposure pathways such as inhalation, ingestion or dermal exposures.

IV - MEDICAL SURVEILLANCE

Blue Water Environmental, Inc. will utilize the services of a licensed physician who is board certified or board eligible in occupational or internal medicine to provide a medical surveillance program as required by OSHA regulations.

Blue Water Environmental, Inc. will obtain the occupational physician's written medical opinion as to whether each employee has any detected medical conditions that would place him or her at increased risk of health impairment from work on a project. The occupational physical will determine whether or not the employee is medically fit to utilize a respiratory protective device.

The format for the medical surveillance program will include the following information for each participant:

- Personal and family history.
- Medical occupation history.
- Personal job history with potential hazardous material exposures.
- Physical examination results.
- Eye examination results.
- Hem occult testing (if over age 40).
- Pap Smear (for females over age 21).
- Pulmonary function test.
- Complete blood count analysis.
- Urinalysis.

The occupational physician may request additional testing based upon an individuals personal history or past exposures to hazardous materials.

V - PPE USAGE AND DECONTAMINATION

As stated in Section II, Hazard Evaluation, personnel and subcontractors performing work under Level D and C conditions as outlined in the HASP may be contaminated in a number of ways including:

- Contact with airborne dust and vapors.
- Splashes by materials during work. Walking, sitting, or kneeling in liquids or wetted materials.
- Using contaminated equipment or instruments.

Protective clothing and respirators help prevent the wearer from becoming contaminated or inhaling contaminants. Good work practices help reduce contamination of protective clothing, instruments and equipment.

PERSONAL PROTECTIVE EQUIPMENT

Personal Protective Equipment to be utilized at a typical non-hazardous site includes the following items:

- **Level D Equipment**- Hardhat, long-sleeve work shirt, safety vest, work pants, and work shoes. During wet/cold weather conditions rubber gloves, rubber boots, and rain suits are advisable. Disposable earplugs and safety glasses will be available on site whenever work tasks require their usage.
- **Level C Equipment**- When personal exposure monitoring, ambient air monitoring or other identifiable conditions exist indicating potential exposures to contaminants action levels. The following PPE shall be utilized in addition to Level D PPE: Tyvek (or comparable) disposable coveralls, taped to the rubber gloves and rubber boots. Half-face air purifying respirators (NIOSH/MSHA approved).

In the event of the discovery of additional contamination conditions all work will cease and a full environmental investigation shall then be performed. A subsequent hazard evaluation will be conducted and the HASP shall be amended accordingly to the appropriate level of protection including level "A" and/or level "B".

DECONTAMINATION PROCEDURES

Even with these safeguards, contamination may occur. Harmful materials can be transferred to clean areas, exposing unprotected personnel. During removal of contaminated clothing, personnel may contact contaminants on their clothing or inhale them. To prevent such occurrences, methods to reduce contamination, and decontamination procedures have been developed and established before anyone enters a site and must continue (modified when necessary) throughout site operations.

Decontamination consists of physically removing contaminants or changing their chemical nature to innocuous substances. How extensive decontamination must be performed depends upon a number of factors, the most important being the type of contaminants involved. The more harmful the contaminant, the more extensive and thorough the decontamination effort.

Combining decontamination, the correct method of doffing personnel protective equipment, and the use of site work zones minimizes cross contamination from protective clothing to wearer, equipment to personnel, and from one area to another. Only general guidance can be given on methods and techniques for decontamination. The exact procedure to use must be determined after evaluating a number of factors specific to the incident.

The decontamination procedures for level D work shall include:

- Brush, wipe and wash all equipment and tools within the Exclusion Zone prior to their transport to storage in the Support Zone.

In the Contamination Reduction Zone;

- Scrub outer boots, gloves, and rain gear with detergent and water. Rinse with generous amounts of water.
- Remove and store protective equipment in the designated storage area. Remove work clothes and store in the designated area. Work clothes shall be laundered regularly.
- Wash hands, face, and any exposed skin thoroughly.

- Redress in work clothes or "street clothes".

The decontamination procedures for Level C work shall include:

- Brush, wipe and wash all equipment and tools within the Exclusion Zone. Wrap tools and small equipment with plastic and transport to the Contamination Reduction Zone for a final wash. Store in designated areas.

In the Contamination Reduction Zone;

- Scrub outer boots, gloves, and re-usable coveralls (e.g. splash gear) with detergent and water. Rinse with generous amounts of water.
- Remove outer boots, gloves, boots, and splash gear and store in the designated area.
- Remove and dispose of any disposable clothing in designated containers.
- Wipe, remove, and decontaminate and store respiratory equipment as per the Respiratory Protection Program. All respiratory protection cartridges shall be replaced daily.

VI – OTHER SAFETY PROCEDURES

Eating, drinking, smoking, chewing gum or tobacco, and other practices that increase the probability of hand-to-mouth transfer and ingestion of material is prohibited in any area designated contaminated (Exclusion Zone).

Hands and face shall be thoroughly washed upon leaving the work area and before eating, drinking, urinating, or other activities.

Whenever decontamination procedures for protective clothing are in effect, the entire body shall be thoroughly washed as soon as possible after the protective clothing is removed.

No facial hair, which interferes with a satisfactory fit of the mask to face seal, is allowed on personnel required to wear respirators.

Contact with contaminated or suspected contaminated surfaces should be avoided. Whenever possible, do not walk through puddles, leachate, discolored surfaces, kneel on the ground, lean, sit or place equipment on drums, containers, or the ground.

Medicine and alcohol can increase the effects of exposure to toxic chemicals. Therefore:

- Personnel using prescription drugs shall inform the doctor who prescribed them of their potential contact with toxic materials.
- Personnel who take over-the-counter drugs within a day before work on a site must inform the HSO of the warnings listed on the drug's container (the part of the label that says, for example, "Do not take this medication if you are operating a motor vehicle").
- Alcoholic beverage intake will be prohibited during project operations. Personnel under the influence of alcohol or recreational or illegal drugs will not be allowed on site.

Other safety operations include the following considerations:

- All personnel going on-site shall be adequately trained and thoroughly briefed on anticipated hazards, equipment to be worn, safety practices to be followed, emergency procedures and communications.
- Any required respiratory protection and chemical protective clothing shall be worn by all personnel going into areas designated for wearing protective equipment.
- Personnel on-site shall use the buddy system when wearing respiratory protection. As a minimum, two other persons, suitably equipped, shall act as safety back up during initial entries.
- Visual contact shall be maintained between pairs on-site and the field supervisor. Entry team members should remain close together to assist each other during emergencies.
- During the work operations, workers shall act as safety backup to each other. Off-site personnel shall provide emergency assistance.
- Personnel shall practice unfamiliar operations prior to doing the actual procedure.

- Entrance and exit locations shall be designated and emergency escape routes delineated. Warning signals for site evacuation shall be established.
- Communications using radios, hand signals, signs or other means shall be maintained between initial entry members at all times. Emergency communication contingencies (such as the use of air horns) shall be prearranged in case of radio failure for the evacuation of workers or for any other emergency situations.
- Wind indicators visible to all personnel shall be strategically located throughout the site.
- Personnel and equipment in the contaminated area shall be minimized, consistent with the contract requirements and effective site operations.

When work area temperatures exceed 80F (75F when workers wear synthetic coveralls), BWE will take steps to control heat stress among its personnel. When temperatures are lower than 32F, BWE will take steps to control cold stress among its personnel. Such steps will include; dry layered clothing, break shelters, and the provision of heaters.

No employee may enter a confined space unless the procedures below are followed:

- Pre-entry permits are prepared and reviewed.
- Appropriate safety equipment is selected and provided.
- Hazardous conditions are monitored per a site specific Health & Safety Plan.
- Hazardous gases are ventilated from the space.
- Rescue procedures and equipment are instituted.

Each workday, the HSO will inspect the site and the work practices followed on the site to determine whether the HASP is being followed.

VII - SITE CONTROL MAPS/DRAWINGS

Over the course of a project the exact configuration of the work areas, access routes, and emergency evacuation routes will routinely change. Copies of maps and drawings showing these configurations will be distributed prior to work area entry.

Law Engineering & Environmental Services, Inc.
One Summit Square
Route 413 & Doublewoods Road
Langhorne, PA 19047

HEALTH AND SAFETY PLAN
Former Cibro Petroleum Facility
Island Park, New York
Project No. 22000-0-0026

1) Names of Key Personnel

Project Principal _____ Brent Chapman

Field Safety Coordinator _____ Scott Horsnall

Project Manager _____ Doug Newton

Date of Plan Preparation: December 1, 2000
Date of Planned Field Activities: December 2000 and January 2001

2) Description of Work

Soil sampling via Geoprobe/direct push method, monitoring well installation, and groundwater sampling

3) Health and Safety Risks

The health and safety risks potentially present at the subject site include exposure to hazardous/toxic substances. Each are detailed below:

Hazardous/Toxic Substances

Hazardous/toxic substances have been identified in on-site soils. Chemical characteristics and OSHA Permissible Exposure Limits (PEL) are discussed under the following subheading.

Chemical Hazard Characterization - Soil

Chemical data from previous soil sampling indicate that petroleum hydrocarbons are of greatest concern at the subject site. The primary routes of exposure to these components are dermal contact and ingestion.

Refer to Items 5) and 7), page 3 for monitoring guidance and personal protection requirements.

Heat and Cold Stress Hazards

	Degree	Result
Heat Stress	Extreme	Heat Stroke
	Moderate	Dizziness or Fatigue
Cold Stress	Extreme	Frost Bite
	Moderate	Hypothermia

Should heat stress be a factor in working conditions, workers should take rest breaks, and drink cool water. Exposure to hot environments can cause physiological and psychological adjustments during the first week of exposure.

Cold stress symptoms - lower body temperature will result in reduced mental alertness, impaired judgement, or loss of consciousness. Workers should take frequent rest breaks in a warm area and drink warm liquids.

Physical Hazards

Heavy equipment (i.e., drill rigs, backhoes, trucks) may be on-site to during soil boring activities. Caution should be exercised when working near the equipment. Wear hard hats, steel-toed shoes or boots, and safety glasses when heavy equipment is present. Verify that back-up alarms and safety shut-off switches are operating each day.

Traffic at the site may present a physical hazard when performing work activities in parking areas. Traffic cones and high visibility vests will be used to increase worker's visibility and protection from traffic.

4) Employee Training

Law Engineering & Environmental Services, Inc. field personnel have completed the 40 hour course entitled "Health and Safety Training for Hazardous Waste Operations", with yearly 8 hour course updates. Field personnel will also receive site-specific training that will address activities, hazards, monitoring, and personal protective equipment for the site, as appropriate. Employee training records, for the personnel assigned to this project, are maintained in Law Engineering & Environmental Services, Inc.'s Philadelphia, Pennsylvania office.

5) Personal Protective Equipment (PPE)

The following PPE must be available for use while at the work site: steel-toed boots, hard hat, protective eyewear and nitrile gloves. Tyvek personal protection suits must be available for use on-site when soil or ground water is likely to contact workers skin

6) Medical Surveillance

All Law Environmental Consultants, Inc. field personnel participate in the Law Environmental Consultants, Inc. medical monitoring program.

7) Monitoring

No monitoring needed

8) Location of Work Site

The "work site" will be considered to be the area within an approximate 25-foot radius of the back of a drilling rig or while drilling activities are in progress.

9) Decontamination

Decontamination Procedures - Wash hands with potable water and soap prior to leaving the site, change gloves following each procedure. Gloves and other disposable personal protective equipment will be disposed of at a location designated by the site owner. Law Environmental Consultants, Inc.'s on-site personnel will request the site owner to designate such a location.

10) Emergency Procedures

LAWGIBB GROUP

November 9, 2000

Ms. Karen Gomez
New York State Department of Environmental Conservation
Region 1
Spill Prevention and Response
Building 40 - SUNY
Stony Brook, New York 11790-2356

Via Federal Express

Subject: **Site Investigation Work Plan**
Former Cibro Petroleum Terminal
Island Park, New York
LAW Project Number 22000-0-0026

Dear Ms. Gomez:

On behalf of Blue Island, LLC, Law Environmental Consultants, Inc. (LAW), has enclosed a copy of the Site Investigation Work Plan for the former Cibro Petroleum Terminal in Island Park, New York.

If you have any questions concerning the work plan, please call Mr. Michael Posillico at 631-752-2145.

Sincerely,

LAW ENVIRONMENTAL CONSULTANTS, INC.

Arul Ayyaswami
Technical Director

Douglas J. Newton, CPG
Senior Hydrogeologist

Cc: Michael Posillico, President – Blue Island
Barry Cohen, Esquire
Nick Acampora – Environmental Program Specialist
Anthony Cava, PE- Assistant Regional Director
Karen Grulich, PE – Regional Spills Engineer

LAW Engineering and Environmental Services, Inc.
301 Oxford Valley Road, Suite 702
Yardley, PA 19067
215-369-1000 • Fax: 215-369-5380

LAWGIBB GROUP

November 9, 2000

Michael Posillico, President
Blue Island, LLC
1610 New Highway
Farmingdale, New York 11735

Via Federal Express

Subject: **Site Investigation Work Plan**
Former Cibro Petroleum Terminal
Island Park, New York
LAW Project 22000-0-0026

Dear Mr. Posillico:

Law Environmental Consultants, Inc. (LAW) is pleased to submit this work plan to Blue Island, LLC for a site investigation at the former Cibro Petroleum Terminal in Island Park, New York.

We look forward to continuing to work with you on this interesting project. Please call us if you have any questions or if we may be of further service.

Sincerely,

LAW ENVIRONMENTAL CONSULTANTS, INC.

Douglas J. Newton, CPG, PG
Senior Hydrogeologist

Kurt W. Stokes, PG
Principal Geologist

BY [illegible] WITH PERMI

LAW Engineering and Environmental Services, Inc.
301 Oxford Valley Road, Suite 702
Yardley, PA 19067
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SITE INVESTIGATION WORK PLAN
FORMER CIBRO ISLAND PARK SITE
ISLAND PARK, NEW YORK

1.0 INTRODUCTION

On behalf of Blue Island, LLC, Law Environmental Consultants, Inc. (LAW) has prepared this work plan for a site investigation at the former Cibro Petroleum site in Island Park, New York. The purpose of the site investigation is to assess soil and ground-water quality conditions at the Site in order to identify hot-spot areas. The scope of work described in this work plan was based in part, on our discussions with the New York State Department of Environmental Conservation (NYSDEC) in Stony Brook, New York during our October 17, 2000 meeting. The methodologies described in this work plan are consistent with NYSDEC procedures for soil and ground-water sampling, and procedures for ground-water monitoring well installation.

For ease of review, this work plan consists of the following sections:

- Introduction
- Background
- Project Approach
- Hydrogeology
- Site Investigation Methodology
- Schedule
- References

2.0 BACKGROUND

The Cibro Island Park site is an 11-acre parcel of land (zoned industrial) located at 7 Washington Avenue in the Township of Island Park in Nassau County, New York (see Figure 1). The site is identified on the local Tax Map as Block 381, Lots 35, 36, 102 and 323. The site is bordered by water on three sides (Island Park Canal to the east, Wreck Lead Channel to the south, and Simmons Hassock Creek to the west), and to the north by single family residences.

According to information reviewed by LAW, the site was used as a petroleum bulk storage facility since the 1940's. In 1973 Cibro purchased the site from OPI, Inc. and continued its operation as a bulk storage terminal through 1990. During its period of peak operations, the terminal facility contained 14 aboveground storage tanks with a total capacity of 17,675,000 gallons and one underground storage tank (UST), which was abandoned prior to Cibro's ownership. According to Cibro, the former UST had a capacity of 3,000 gallons and was located near a former dispensing system; the contents of the UST are unknown. Currently the site is not used, and the aboveground tanks have been removed from the site. A list of the former tanks at the site is provided in Table 1. The locations of the former tanks are shown on Figure 2.

During the past 10 to 12 years several subsurface investigations were performed at the site in order to assess the potential presence of environmental impacts related to past site activities. The investigations included the installation of test pits, soil borings and ground-water monitoring wells, as well as the collection and analysis of both soil and ground-water samples. The results of these investigations have indicated the presence of petroleum hydrocarbon impacts at the site in soil, ground water and adjacent surface water. In addition, a limited area of PCB-impacted soil was identified near the southwest portion of the site.

Review of available information also shows that separate-phase product may have been historically present at the site. However, review of the more recent information suggests that little, if any, separate-phase product is currently present. If separate-phase product were present in the past, the tidal fluctuations would have smeared the separate-phase product through a thicker section of unconsolidated materials than would have been affected if there were no tidal influence. Consequently, the material within the capillary fringe zone may exhibit greater petroleum-related impacts than the soils immediately above the capillary fringe at the areas where separate-phase product may have been present.

3.0 PROJECT APPROACH

Based on available information regarding site conditions, LAW has developed an integrated approach to address the characterization and remediation of the entire site. LAW's approach includes a soil investigation to characterize soil-quality conditions, and a ground-water investigation to assess ground water-quality conditions and to evaluate natural attenuation processes that are likely occurring in the ground-water system. The scope of work for the site investigation was also developed to provide the necessary information to evaluate the feasibility of our remedial approach to site cleanup, which is discussed below. LAW's soil investigation consists of identifying "hot spot" areas at the site that will require remediation. These hot-spot areas will be identified during the planned soil investigation and will be defined as areas where soils exhibit concentrations of total petroleum hydrocarbons (TPHs) in excess of 1,000 milligrams per kilogram (mg/kg).

Upon completion of the soil investigation, LAW will prepare an isoconcentration map depicting the concentration gradient of TPHs at the site and the areas of the site that will require remediation. Data collected during the ground-water investigation will be used to evaluate applicable ground-water remedial alternative, if necessary (i.e. monitored natural attenuation program and/or enhanced bioremediation techniques).

3.1 PRELIMINARY REMEDIAL APPROACH

As stated above, LAW's approach to remediate the soils is to identify the areas of impacted soils and excavate and treat these "hot spots areas". The soils will be excavated and stockpiled for treatment either offsite or onsite. At the present time, we anticipate that soils with concentrations of TPHs equal to or greater than 1,000 mg/kg will be treated by using thermal desorption technology. Soils with TPHs concentrations less than 1000 mg/kg will be treated by bioremediation processes (e.g. bio-piles), depending upon their location on-site and their effects on planned construction/development of the site. Soils deemed clean will be reused onsite.

Post-excavation soil samples (i.e. end-point samples) will be collected after remedial excavation activities to document the cleanup in accordance with soil quality guidance values. Details of the post-excavation sampling program will be provided in the Cleanup Plan that will be prepared subsequent to the completion of the Site Investigation.

4.0 HYDROGEOLOGY

On Long Island and in the project area, the unconsolidated sediments of Quaternary and Cretaceous age rest unconformably on a crystalline bedrock surface that slopes to the southeast. Review of published information shows the bedrock is of Precambrian age and occurs at depths ranging from about 200 feet below ground surface (bgs) to 1800 feet bgs. Descriptions of cores from wells indicate that the bedrock is generally a biotite schist or gneiss, which may be intruded by granite or pegmatite. In most places, the bedrock is severely weathered in its upper part.

The Late Cretaceous deposits are predominately the Raritan and Magothy Formations which lie unconformably above the bedrock. These deposits consist of interbedded sand, gravel, silt and clay. The Raritan is the older formation and is divided into the Lloyd sand member below and the clay member above. The Raritan Formation by correlation with the New Jersey formations has been referred to as the basal member of the Upper (late) Cretaceous Series. The Magothy Formation which, used to designate all Cretaceous strata on Long Island that lie above the Raritan Formation, likely includes an equivalent of the Magothy formation of New Jersey and also some Upper Cretaceous strata younger than the Magothy of New Jersey. The Magothy Formation consists predominately of micaceous sand, sandy silt and clay. Gravel occurs near the base of the formation.

Pleistocene deposits of sand, gravel and glacial till form the surficial deposits at most areas of Long Island. The bulk of the Pleistocene deposits are till and outwash deposits associated with two ice advances within the Wisconsin and Illionian ages. Shoreline, swamp and alluvial deposits of Recent age locally mantle the older deposits.

The unconsolidated deposits that are saturated from the weathered bedrock upward to the water table yield water to wells screened in the permeable zones. The site-specific hydrogeologic conditions consist of a tidally influenced unconfined aquifer within the surficial fill material and glacial fluvial deposits. Tidal fluctuations on ground water levels have been reported to range from one to four feet. The direction of ground water flow at the site is variable, but generally south and easterly.

According to published information, the surface waters in the area of the site are classified as "SB" Saline Waters, which allow for primary and secondary recreation and fishing.

5.0 SITE INVESTIGATION METHODOLOGY

The site investigation consists of five tasks: Task 1 – Site Preparation; Task 2 - Tidal Influence Study; Task 3 - Soil Characterization Investigation; Task 4 – Ground-Water Investigation; and Task 5 – Data Analysis/Report Preparation. A description of the scope of work associated with each task is provided below.

Task 1 – Site Preparation

To facilitate access to the site for purposes of implementing the site investigation, Blue Island personnel will clear the site of weeds and construction debris, and eradicate (or control) to the extent practicable, the rodent population at the site. Specifically, Blue Island will cut down the weeds and remove the upper 6 inches of topsoil at the site. Rodent traps will be placed at the site to reduce or eliminate the existing population at the site.

Based on a review of available information, the heavily impacted soils occur in the capillary fringe zone (the zone in the subsurface where the water table fluctuates). Further, our review of available information shows that the upper 6 inches of material (surficial material) at the site may not impacted with petroleum-related constituents. This determination, however, will be made in the field based on observations and through the use of a photoionization detector (PID), which will be used to detect the presence of organic vapors. Soil deemed to the clean in the field will be stockpiled in an area at the northwestern portion of the property. If impacted topsoil is identified it will be stockpiled in a separate pile from the clean pile, placed on poly sheeting and covered, pending review of disposal or treatment option.

In addition to removing the weeds and topsoil layer, Blue Island will break-up and crush the existing concrete pad at the loading dock. The purpose for removing the concrete pad is to allow borings to be drilled in the loading dock area of the site, which may require further investigation and/or future remediation. The crushed concrete and loose concrete will be stored in an area, which will be crushed and recycled at a later date.

Control Measures in NYSDEC Buffer Zone and Jurisdictional Area

Selected removal of impacted soil in the 300-foot jurisdiction area will be coordinated with the NYSDEC. The soil in the 75-foot buffer zone will not be disturbed. The estimated area associated with the buffer

zone and jurisdictional area are shown on Figure 3. The cross section including a schematic of the control measure is shown on Figure 4.

Task 2 – Tidal Influence Study

An evaluation of tidal influences on the water table at the site will be conducted. The purpose of this study is to attempt to evaluate the tidal influence on the water-table elevation so that soil samples are collected at appropriate depths across the capillary fringe, and to provide the necessary information to assist with establishing the screen settings for new monitoring wells that will be installed at the site. Water-levels measurements will be made from three of the existing monitoring wells at the site using an in-well data logger unit such as In-Situ Troll™ 4000. Water levels will be monitored in these wells for a period of about one-week. Upon completion of the monitoring period, the data will be downloaded and graphs depicting water-level elevation changes versus time will be prepared.

Task 3 – Soil Characterization Study

Approximately 70 direct push soil borings will be completed at locations shown on Figure 2. Soil samples will be collected continuously to a depth 2 feet below the water table for field screening and geologic logging purposes. Based on a review of available information, it is estimated that the water table occurs at about 2 to 6 feet below ground surface (bgs); information obtained during the Tidal Influence Study will be used to further define the water-table elevation fluctuations. The total depth of the borings will be approximately two feet below the average depth of the water table observed during low-tide conditions (presumably the period when the water table will be the lowest at the site). The borings will be completed utilizing the Geoprobe® direct push technology. The soil samples will be screened in the field for the presence of organic vapor compounds using a PID. The PID will be calibrated to an isobutylene standard prior to use.

Up to three soil samples will be collected from each soil boring at the approximate following intervals: 1.5-2.0 ft bgs; 3 ft bgs, and 2 ft below the "low tide" water-table elevation. The soil samples will be submitted to a laboratory and analyzed for total petroleum hydrocarbons (TPHs) by using US Environmental Protection Agency (USEPA) Method 418.1. The samples will be placed on ice and transported to a New York State Certified laboratory under chain-of-custody documentation. For Quality Assurance/Quality Control (QA/QC) purposes, one field blank will be prepared for each day of sampling and analyzed for TPHs.

Between soil boring locations, all downhole Geoprobe® equipment (Macro core and rods) will be cleaned with a Micro™ solution (or equivalent detergent solution) and distilled water rinse. Water generated during the decontamination procedures will be containerized in a 55-gallon steel drum(s) and staged on-site pending characterization for disposal purposes.

In addition, Blue Island will contract a drilling firm to drill approximately six soil borings at the site for geologic and geotechnical information. The borings will be drilled using a hollow-stem auger rig and appropriate standard penetration tests. It is anticipated that the borings will be completed to a depth of 25 ft bgs.

PCB-Impacted Soil

Review of the Subsurface Investigations, inc.. report dated June 1994 shows a small area of soil impacted with PCBs. This area is located about 100 feet west of former Tank 12 and adjacent to Simmons Hassock Creek. Concentrations of PCBs in this area were reported to range from 1.0 to 4.0 milligrams per kilogram (mg/kg). The data presented in the Subsurface Investigations report shows this area to be adequately delineated.

Based on the approximate locations of the borings, Blue Island will survey the general location of the PCB-impacted soils. This area will be flagged and the impacted soil excavated and treated offsite. Post-excavation samples (end-point samples) will be collected as part of the clean-up plan to assess post-remediation soil quality conditions.

Task 4 – Ground-Water Investigation

LAW proposes to install five new monitoring wells at the site and will replace an existing damaged well. The new wells are shown on Figure 2 and are identified as follows: LMW-1, LMW-2, LMW-3, LMW-4 and LMW-5. Well LMW-1 will be installed in the former loading dock area to assess ground-water quality conditions in this area and determine whether or not separate-phase product is present. Well LMW-2 will be installed west of former tanks 5 and 6 to assess ground-water quality conditions in this area, which may have elevated levels of petroleum hydrocarbons in the soil. Well LMW-3, LMW-4 and LMW-5 will be installed to supplement the existing monitoring well network and serve as replacement wells for former wells that may no longer exist in these areas. In addition, existing Well MW-3 is

reportedly destroyed; this well will be replaced during well installation activities (MW-3R). An inventory of existing site wells will be conducted to determine the number of well on-site and well condition prior to installing the new well.

The wells will be installed using a hollow stem auger drill rig. Each boring will be drilled (i.e. advanced) to a depth sufficient to allow the installation of a well. Information from the tidal influence study will also be used to assist with the placement of the well screens. The boring will be completed as 2-inch diameter schedule 40 polyvinyl chloride (PVC) Type 2 monitoring well consistent with NYSDEC monitoring well construction criteria. The wells will be designed such that the well screens intersect the water table over its normal fluctuation range.

The new monitoring wells will be surveyed for elevation relative to the previously established datum at the site. A synoptic round of water-level measurements will be collected prior to ground-water sampling. These data will be used to calculate ground-water elevations relative to the datum and flow direction.

The wells will be developed upon completion by hand bailing or using a submersible or centrifugal pump. Decontamination and QA/QC will be conducted through steam cleaning of equipment and the use of disposable (one time use) sampling equipment. Drill cuttings will be stockpiled on site and covered with poly sheeting. Decontamination water will be containerized in 55-gallon steel drums; both will remain on-site pending characterization and disposal.

Ground Water Sampling and Analysis

A ground-water sample will be collected from each of six new monitoring wells and from the existing eight monitoring wells for laboratory analysis. The ground-water samples will be collected utilizing the low flow (micro purging) technique. Samples will be analyzed for benzene, toluene, ethylbenzene, and total xylenes (BTEX) using USEPA Method 8020. In addition, selected monitored natural attenuation parameters will be analyzed for and are listed as followed: total and dissolved iron and manganese, alkalinity, nitrate and nitrite, sulfate, chloride, methane, carbon dioxide, chemical and biochemical oxygen demand, total and dissolved organic carbon, and ammonia. The samples will be placed on ice and delivered to a New York State-certified analytical laboratory under chain of custody documentation. A field blank will be collected daily and analyzed for all parameters to be analyzed. A trip blank will

accompany the ground-water samples to the laboratory and will be analyzed for BTEX by EPA Method 8020.

Field measurements and additional analyses will be collected at the wellhead and consist of the following: dissolved oxygen (DO), oxidation-reduction potential (ORP), pH, temperature, specific conductance, ferrous iron, and sulfide.

Ground-Water Sampling Procedures for Low-Flow Sampling

The USEPA Ground-Water Sampling Standard Operating Procedures (SOP) (March 16, 1998) for low-flow sampling will be followed. The following is a summary of the USEPA SOP.

1. Grunfos Redi-Flow submersible pumps will be used to purge wells; pumps will be set at the midpoint of the screen of each well. Pumps will be decontaminated between each well location, and a field blank will be prepared from the decontaminated pump.

2. A water-level measurement will be collected prior to turning on the pump and recorded at 5-minute intervals during purging.

3. Purge rates will be between 200 and 500 milliliters per minute (ml/min). Purging rates will be measured using a stopwatch and graduated beaker. The objective is to maintain a constant pumping rate that permits a stable water level.

4. Field parameters will be measured at five-minute intervals during purging and recorded values will be placed on the field sampling form. The conditions of groundwater being pumped from the well are considered to stabilized and ready for sample collection when three consecutive readings of the following parameters are within the following range:

pH	+/- 0.1 unit
Specific conductance	+/- 3%
ORP	+/- 10mv
DO	10%
Temperature	10%
Turbidity	10%

5. The pump discharge tubing will be placed in the bottom of the flow through cell used with the field parameter meter. Care will be taken to ensure that the tubing is immersed below the water level in the cell and located adjacent to the dissolved oxygen probe.

6. Once field parameters stabilize, the flow rate will be reduced to about 100 to 250 ml/min for sample collection. The flow-through cell will be disconnected and ground-water samples will be collected from the sample tubing. Water from the tubing will be directed against the inner wall of the container to minimize aeration of the sample. Samples will be collected in the follow order: total BTEX and MNA parameters. Samples for dissolved parameters will be field-filtered using a 0.45 micron inert filter. In-line filters will be connected directly to the pump discharge tubing; these samples will be collected last.

Task 5 – Data Analysis/Report Preparation

Upon completion of field activities, a Site Investigation Report will be prepared. The report will consist of the soil, tidal influence and ground water investigation findings at the site. Data analysis will consist of data summary tables of TPH data in soils, and an isoconcentration map depicting the concentration gradient of TPHs at the site. Ground-water investigation will include summary tables of results and present a summary of natural attenuation processes at the site to confirm if natural degradation is a viable option at the site. In conjunction with ground-water quality data, long term water-level monitoring will be reviewed to access the influence of tidal movement on the water table and its relationship to the smear zone.

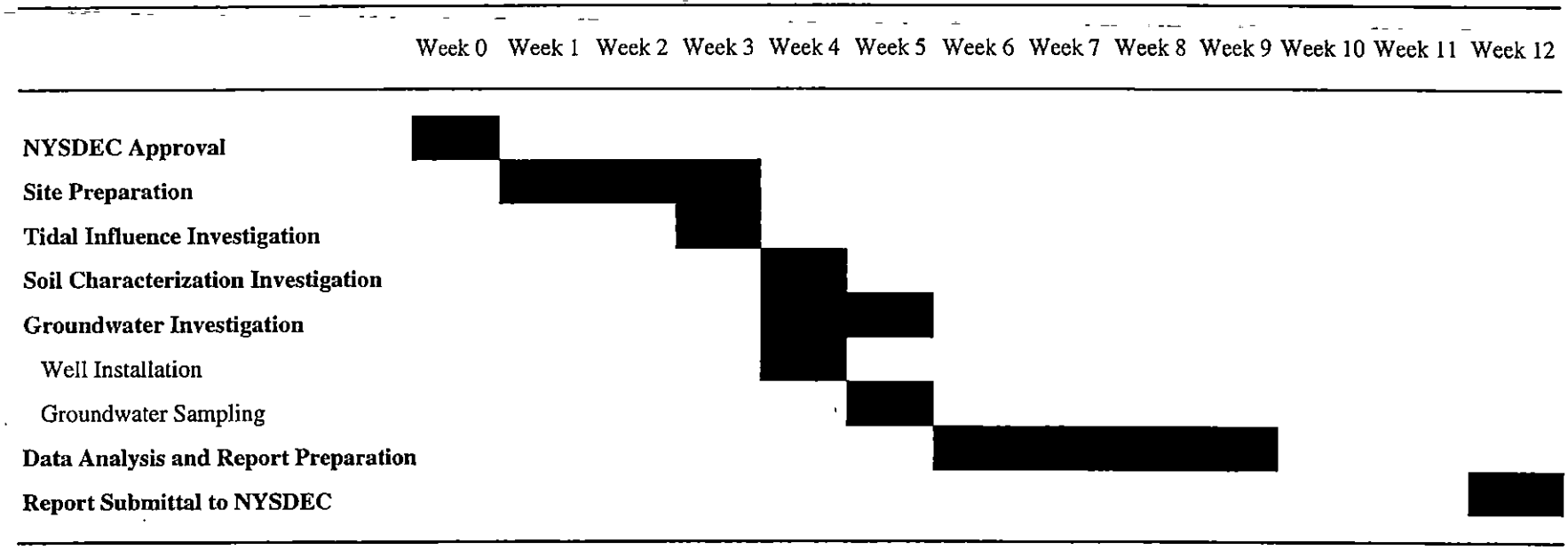
6.0 SCHEDULE

The schedule for the site investigation activities is provided in Table 2. As shown in Table 2, we expect that the site preparation activities (Task 1) will be completed in about three weeks. Tasks 2 and 3 will be completed in about two weeks. Assuming normal turnaround time (three weeks) for the laboratory data the Site Investigation Report will be completed within five weeks of completion of the field activities.

7.0 REFERENCES

1. Subsurface Investigations, Inc. 1993. Remedial Investigation/Feasibility Study, Former Cibro Petroleum Terminal, 7 Washington Avenue, Island Park, New York.
2. USGS, 1963. Hydrogeology of Northwestern Nassau and Northeastern Queens Counties, Long Island, New York. Water Supply Paper 1657.
3. USGS, 1989. Hydrogeologic Framework of the New Jersey Coastal Plain – Regional Aquifer Analysis. Professional Paper 1404-B.

Table 2
Implementation Schedule for the Soil and Grounwater Investigation at the Former Cibro Island Park Site
Island Park, New York
LAW Project Number 22000-0-0026



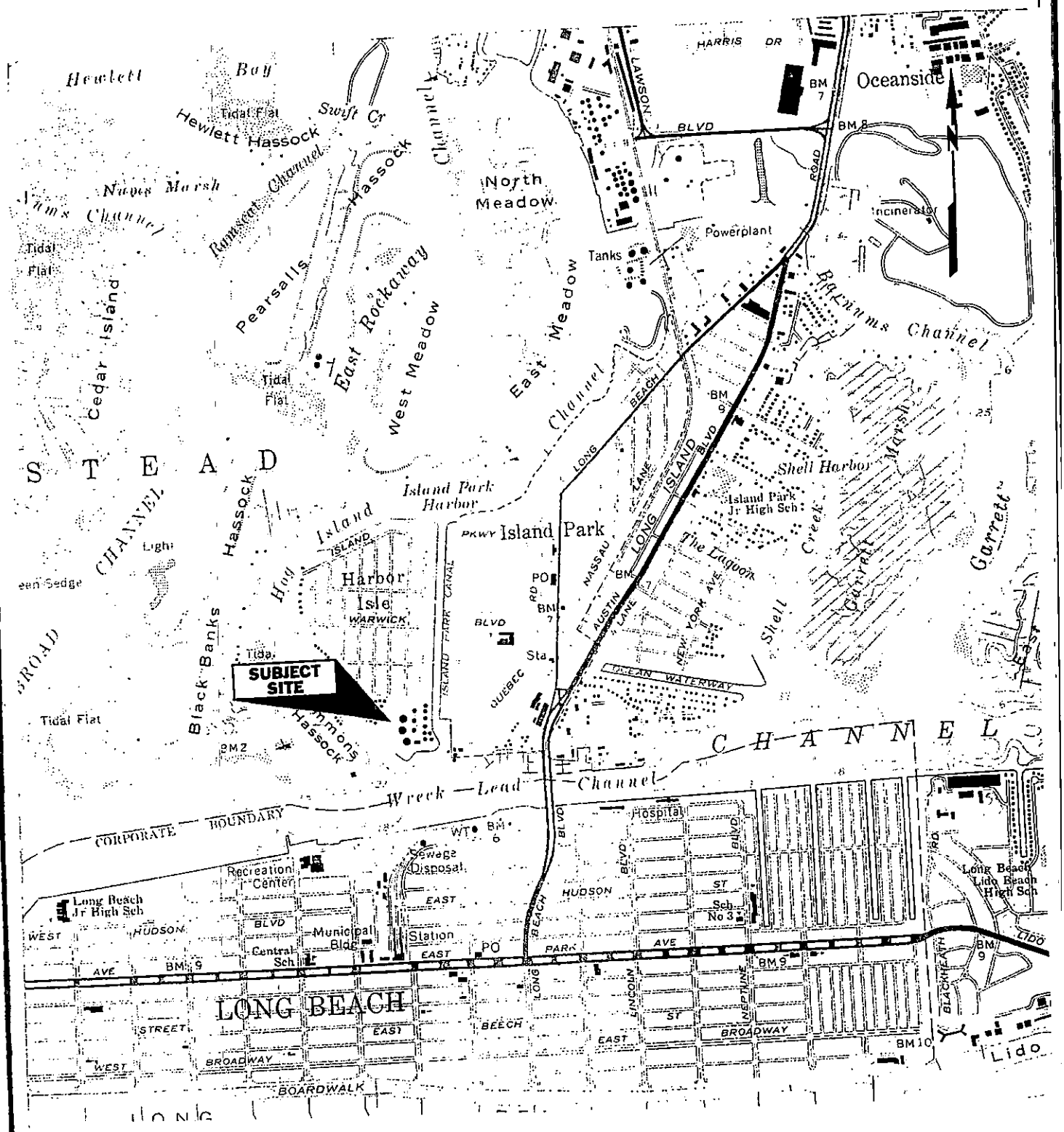
Prepared by: SH 10/26/00
Checked by: DJM

Table 1
Summary of Former Aboveground Storage Tanks at the Former Cibro Island Park Site
Island Park, New York
LAW Project Number 22000-0-0026

Tank ID	Capacity (gallons)	Last Known Contents	Date of Construction
AST-1	500,000	SPDES Tank (Gasoline)	1940
AST-2	500,000	SPDES Tank (Gasoline)	1940
AST-3	180,000	SPDES Tank (Kerosene)	1944
AST-4	180,000	SPDES Tank (#4 Fuel Oil)	1944
AST-5	424,000	Empty (Gasoline)	1948
AST-6	630,000	Empty (Gasoline)	1948
AST-7	635,000	Empty (#4 Fuel Oil)	1948
AST-8	630,000	Empty (Gasoline)	1948
AST-9	1,255,000	Gasoline (#2 Fuel Oil)	1955
AST-10	1,264,000	Gasoline (#2 Fuel Oil)	1955
AST-11	1,264,000	Gasoline (#2 Fuel Oil)	1955
AST-12	3,405,000	No. 2 Fuel Oil	1965
AST-13	3,401,000	No. 2 Fuel Oil	1965
AST-14	3,407,000	No. 2 Fuel Oil	1965

( ) Indicates previoius contents during Oil Products Inc. ownership.

Prepared by: SH 10/26/00
Checked by: DJW



SOURCE: USGS LAWERENCE, NEW YORK 7.5 MINUTE TOPOGRAPHIC QUANDRANGLE, PHOTOREVISED 1979

0 2000 4000

1"=2000'

QUADRANGLE LOCATION

SITE LOCATION

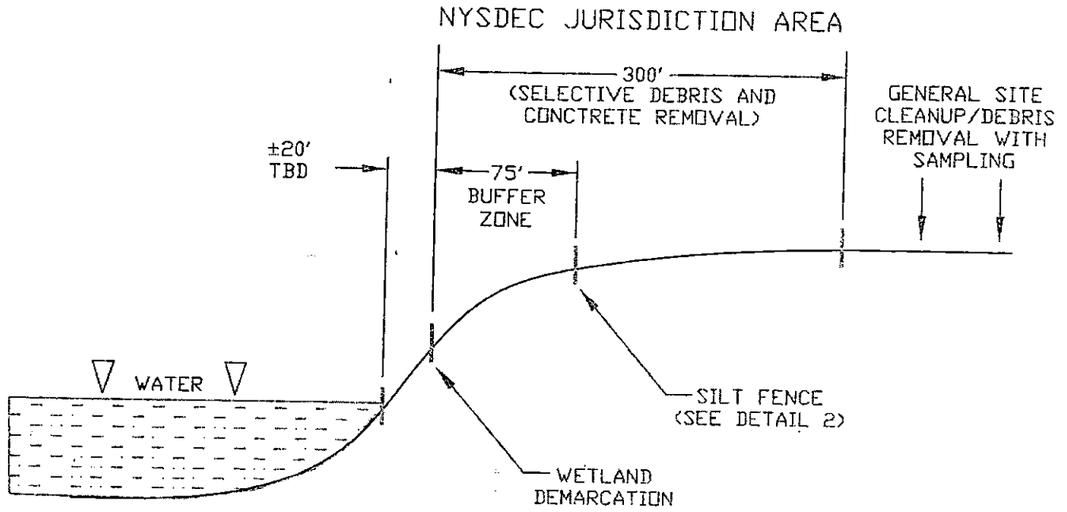
LAW
LAW Gibb Group Member

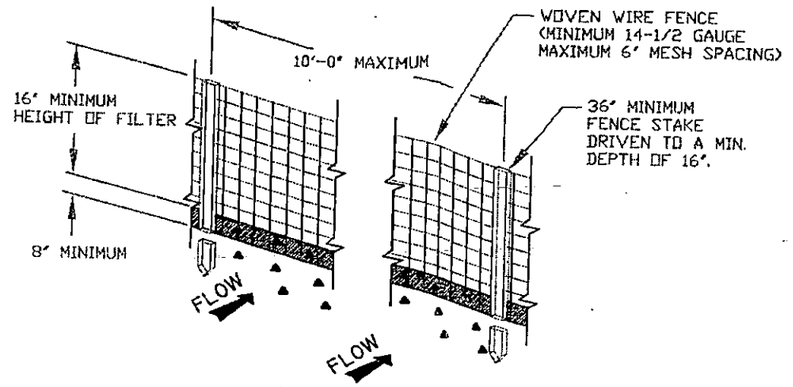
FORMER CIBRO ISLAND PARK SITE
ISLAND PARK, NEW YORK

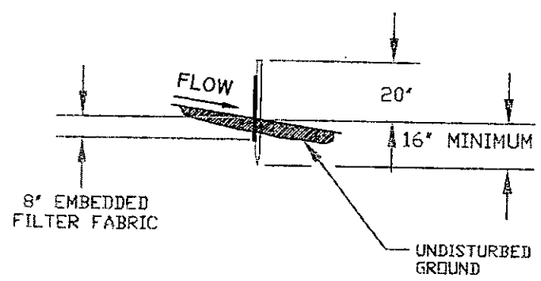
SITE LOCATION MAP

PRINCIPAL D.N.
PROJECT MANAGER XX
DRAWN BY G.L.

FILE NO. 22000-0-00
DATE 10/31/00
DWG NO. 1







SILT FENCE NOTES:

1.) Woven wire fence to be fastened securely to fence stakes with wire ties of staples.
2.) Filter Fabric shall be fastened securely to woven wire fence with ties spaced every 24" at top and mid section.
3.) When two sections of filter fabric adjoin each other they shall be overlapped by 6" and folder.
4.) Maintenance shall be performed as needed and material removed when 'bulges' develop in the silt fence.

NOT FOR CONSTRUCTION

LAW

LAWGIBB Group Member

LAW ENGINEERING & ENVIRONMENTAL SERVICES, P.C. PHILADELPHIA, PA

No.	DESCRIPTION	BY	DATE
1.	CERTIFICATIONS REVISED ONLY		
	REVISIONS		

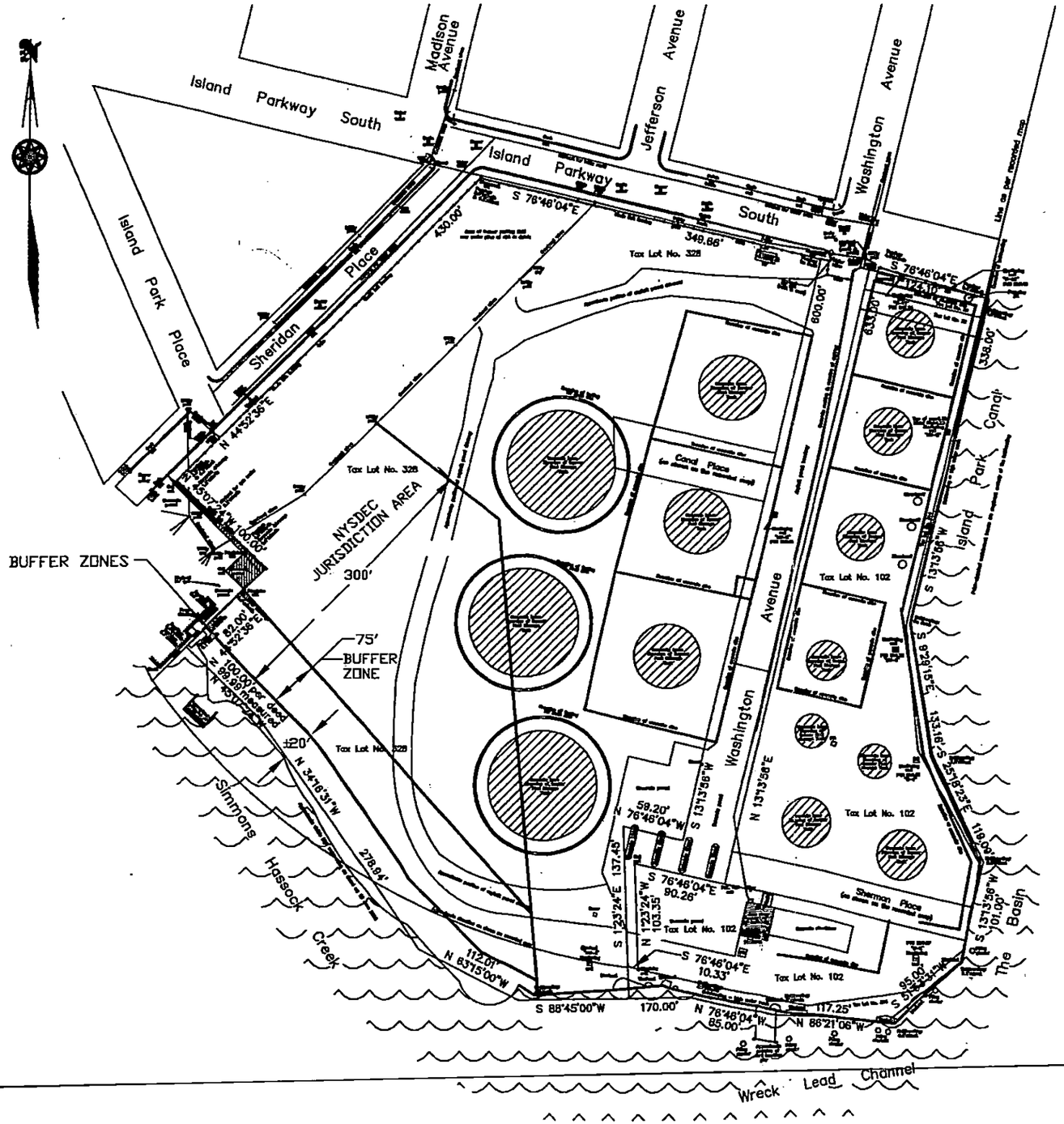
BLUE ISLAND, LLC
Former Cibro Island Park State
Island Park, New York

Wetland Buffer Zone and Jurisdiction Area Cross Section Details

DATE 05 NOV. 2000
SCALE NO SCALE

FIG. 4

COUNTY OF NASSAU SECTION 43 BLOCK 381 LOTS No. 35,36,102,314 & 328



NOT FOR CONSTRUCTION

LAW
LAWGIBB Group Member

LAW ENGINEERING & ENVIRONMENTAL SERVICES, P.C. PHILADELPHIA, PA

No.	DESCRIPTION	BY	DATE
1.	CERTIFICATIONS REVISED ONLY		

REVISIONS

BLUE ISLAND, LLC
Former Cibro Island Park State
Island Park, New York

NYSDEC Wetland Buffer Zone and Jurisdiction Area

DATE: 05 NOV. 2009
SCALE: 1"= 200'

FIG.3