

GEI Consultants

Geotechnical
Environmental
Water Resources
Ecological

Final Site Characterization Report

East Hampton Hortonsphere Site

East Hampton, New York
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Table of Contents

Abbreviations and Acronyms iv

Executive Summary vi

1. Introduction 1
- 1.1 SC Objectives 2
- 1.2 Site Description 2
  - 1.2.1 Current Ownership and Use 2
  - 1.2.2 Surrounding Property Use 3
  - 1.2.3 Site History 3
  - 1.2.4 Hortonsphere Construction Methods 3
  - 1.2.5 Potential Site Impacts 4
- 1.3 Physical and Environmental Setting 4
  - 1.3.1 Regional Geology 5
  - 1.3.2 Regional Hydrology 5
  - 1.3.3 Water Use 6
  - 1.3.4 Climatology 6
- 1.4 Previous Investigations 6

2. Site Characterization Scope of Work 7
- 2.1 SC Field Work 7
  - 2.1.1 Utility Mark Out 7
  - 2.1.2 Air Monitoring 8
  - 2.1.3 Soil Sampling and Temporary Monitoring Well Installation 8
    - 2.1.3.1 Surface-Soil Sampling 8
    - 2.1.3.2 Soil Borings 9
    - 2.1.3.3 Temporary Monitoring Well Installation 9
  - 2.1.4 Groundwater Sampling 10
    - 2.1.4.1 Purging 10
    - 2.1.4.2 Sampling 11
  - 2.1.5 Soil Vapor Sampling 11
  - 2.1.6 Data Management 11
  - 2.1.7 Survey 11
  - 2.1.8 Work Plan Modifications 12

3. Site Geology and Hydrogeology 13
- 3.1 Geology 13
  - 3.1.1 Fill 13
  - 3.1.2 Sandy Silt with Gravel 13

3.1.3 Sand and Gravel 13
3.2 Site Hydrogeology 14

4. Findings 15
4.1 Surface Soil 15
4.2 Subsurface Soil 18
4.3 Groundwater 18
4.4 Soil Vapor 19
4.5 Non-Aqueous Phase Liquid (NAPL) 19

5. Qualitative Human Health Exposure Assessment 20
5.1 Exposure Pathways 20
5.1.1 Surface Soil 20
5.1.2 Subsurface Soil 21
5.1.3 Groundwater 21
5.1.4 Soil Vapor 22
5.2 QHHEA Summary and Conclusions 22

6. Ecological Screening 24
6.1 Overview 24
6.2 Local and Regional Ecological Research and Site Survey 24
6.3 Ecological COPCs 26
6.4 Decision Key 26

7. Conclusions and Recommendations 27

References 30

Table of Contents (cont.)

Tables

1 Climatological Norms and Means – MacArthur Airport, Islip, New York
2 Sample Collection Rationale
3 Groundwater Depths and Elevations
4 Final Groundwater Parameters
5 Surface Soil Analytical Results for Detected Compounds
6 Subsurface Soil Analytical Results for Detected Compounds
7 Groundwater Analytical Results for Detected Compounds
8 Soil Vapor Analytical Results for Detected Compounds

Figures

1 Site Location Map
2 Current Configuration and Sample Locations
3 Cross section A-A′
4 Cross section B-B′
5 Groundwater Contours (June 2009) and Groundwater Analytical Summary (ug/L)
6 Surface Soil Analytical Summary (mg/kg)
7 Subsurface Soil Analytical Summary (mg/kg)

Appendices

A Work Plan Approval Letter
B Supplemental Site Characterization Letter Work Plan
C Site Photographs
D Sanborn Fire Insurance Maps, USGS Topographic Maps, Aerial Photographs, Hortonsphere Construction Information
E Review of Long Island Gas Manufacture and Distribution (1907-1950)
F Soil Boring Logs
G Data Usability Summary Report and Electronic Data Deliverables (Electronic Only)
H Decision Key

Abbreviations and Acronyms

AOC	Administrative Order on Consent
APWA	American Public Works Association
BTEX	Benzene, Toluene, Ethylbenzene, Xylene
CBI	Chicago Bridge and Iron Works
CFR	Code of Federal Regulations
COPC	Contaminants Of Potential Concern
DDD	Dichlorodiphenyldichloroethane
DDE	Dichlorodiphenyldichloroethylene
DDT	Dichlorodiphenyltrichloroethane
EDR	Environmental Data Resources
EPA	United States Environmental Protection Agency
FWRIA	Fish and Wildlife Resource Impact Analysis
GEI	GEI Consultants, Inc.
GPS	Global Positioning System
HAS	Hollow-stem Auger
LILCO	Long Island Light Company
LIPA	Long Island Power Authority
LNAPL	Light Non-aqueous Phase Liquids
NAPL	Non-aqueous Phase Liquids
NAVD	North American Vertical Datum
NOAA	National Oceanographic and Atmospheric Administration
NTUs	Nepholometric Turbidity Units
NY LS	New York State-Licensed Land Surveyor
NYSASP	New York State Analytical Services Protocol
NYSDEC	New York State Department of Environmental Conservation
NYSDOH	New York State Department of Health
ORP	Oxidation/Reduction Potential
OSHA	Occupational Safety & Health Administration
PAH	Polycyclic Aromatic Hydrocarbon
PCB	Polychlorinated Biphenyl
PEL	Permissable Exposure Limits
PCE	Tetrachloroethene
PID	Photoionization Detector
PVC	Polyvinyl chloride
QHHEA	Qualitative Human Health Exposure Assessment
Sanborn	Sanborn Fire Insurance map
SC	Site Characterization
SCGs	Standards, Criteria, and Guidelines
SCOs	New York State Soil Cleanup Objectives
SCWP	Site Characterization Work Plan

Abbreviations and Acronyms (continued)

SCWA	Suffolk County Water Authority
SSC	Supplemental Site Characterization
SSCWP	Supplemental Site Characterization Work Plan
SVOC	Semivolatile Organic Compound
TAL	Target Analyte List
USC	Utility Survey Corp
USCS	Unified Soil Classification System
USGS	United States Geological Survey
VOC	Volatile Organic Compound
6NYCRR	Title 6, Chapter 100, Part 700-705 Of The New York State Code Of Rules And Regulations

OTHERs

Bgs	Below Ground Surface
L	Liter
mg/kg	Milligram Per Kilogram
mL	Milliliters
Mph	Miles Per Hour
ug/L	Microgram Per Liter

Executive Summary

GEI Consultants, Inc. (GEI) prepared this Site Characterization (SC) Report to describe environmental conditions at the East Hampton Hortonsphere site on behalf of National Grid (formerly KeySpan Energy). The Site is located at the intersection of Fresno Place and Railroad Avenue (west of the intersection of Race Lane and Railroad Avenue) in the Village of East Hampton, Suffolk County, New York (Site). The Site is currently owned by the Long Island Power Authority (LIPA) and includes a Hortonsphere (an aboveground spherical gas storage vessel), compressor station, and an electrical substation. While LIPA owns the property and the electric substation facilities, National Grid under an easement from LIPA, owns and operates a gas compressor station and Hortonsphere at the Site. The current Site use (industrial) is expected to continue into the future. The Hortonsphere on Site was the subject of the investigation and of this SC report.

National Grid's predecessors formerly owned and used the Site for manufactured gas storage (though gas manufacturing never occurred there) from circa 1936 to 1943. By 1956, the Hortonsphere was used for storage of natural gas. National Grid owns and maintains a chain-link fence that surrounds and prevents access to the Hortonsphere, which continues to serve as storage for natural gas.

Field investigations were conducted in accordance with a New York State Department of Environmental Conservation (NYSDEC)-approved Site Characterization Work Plan (SCWP), and this report is consistent with guidance in the NYSDEC *Draft DER-10 Technical Guidance for Site Characterization and Remedial Investigation* dated December 25, 2002 and Title 6, Chapter 100, Part 700-705 of the New York State Code of Rules and Regulations (6NYCRR) Part 375 Soil Cleanup Objectives (NYSDEC, 2006). The investigations and reporting were conducted pursuant to an Administrative Order on Consent (AOC) and administrative settlement #A1-0595-08-07 between National Grid and the NYSDEC.

GEI evaluated Site conditions based on storage and the associated potential impacts of both natural and manufactured gas. In addition to assessing the potential for releases related to gas storage, the objectives of the SC included evaluating the potential for human exposure and the potential for any release to have an adverse effect on the ecology surrounding the Site. The evaluation included collection and laboratory analysis of surface soil, subsurface soil, groundwater, and soil vapor samples.

The findings of the SC revealed that a few organic and inorganic compounds are present at the site in surface soil and groundwater at concentrations higher than the 6NYCRR Part 375

Restricted Residential Use Soil Cleanup Objectives (the "Residential SCOs") (NYSDEC, 2006), and the NYSDEC groundwater quality standards. Some of these compounds may be related to current and historical site uses and some (such as pesticides) may be a function of past local agricultural practices. Lead was present in three surface soil samples at concentrations above the Residential SCO (400 mg/kg). Each of the three samples was located at or near the Hortonsphere structure.

Fewer compounds exceed the Restricted Industrial Use SCOs (the "Industrial SCOs"), which are the most appropriate standards given the current and future anticipated site use. Based on the restricted standards and reasonable exposure scenarios, only benzo(a)pyrene, benz(a)anthracene, and arsenic are potentially accessible in a limited number of surface soil samples.

However, benzo(a)pyrene and benz(a)anthracene were present in only one primary sample above the Industrial SCOs. A duplicate of the same sample contained benzo(a)pyrene and benz(a)anthracene at concentrations below the Residential SCOs. As such, neither compound is believed to be common or widespread, their source is believed to be coal or asphalt dust, and they are not likely to present a realistic human health risk.

Arsenic was present above the Industrial SCO (16 mg/kg) in five samples, most of which were only slightly higher than the SCO. The highest concentration of arsenic was present in surface soil below gravel cover within the fence and locked gate around the Hortonsphere structure. Access to the other sample locations requires a deliberate effort to remove surficial grass and gravel to get to the soil just below. Furthermore, based on sampling for arsenic at eight other Long Island Hortonsphere sites, arsenic is not a Hortonsphere-related compound.

Arsenic was widely used in the past forty years as a pesticide and a herbicide in agricultural and industrial settings. Other non-Hortonsphere-related compounds such as pesticides and herbicides were detected at the Site as well, below Industrial use SCOs. These compounds, like arsenic, were widely used in the past in and around Long Island.

Soil vapor samples had minor detections of volatile organic compounds (VOCs). However, most of these VOCs are not associated with gas holder operations and may be related to surrounding land uses.

Application of a NYSDEC Decision Key (to determine the need for further ecological investigation) concluded that a Fish and Wildlife Impact Assessment is unnecessary. Contaminants of Potential Concern (COPCs) above the Restricted Industrial standards at the Site are generally inaccessible (and will remain so), or are not apparently related to gas storage.

Because lead is present at concentrations above the Residential SCO at and near the Hortonsphere, the fencing around the Hortonsphere will be lengthened and upgraded and a layer of ballast will be added to the area to ensure that exposure to lead is mitigated and the Industrial scenario is formally attained. In addition, an environmental easement will be imposed and a site management plan will be developed.

1. Introduction

GEI Consultants, Inc. (GEI) conducted a Site Characterization (SC) on behalf of National Grid (formerly KeySpan Energy), to evaluate environmental conditions at the East Hampton Hortonsphere Site, located in East Hampton, Suffolk County, New York (the Site). Figure 1 provides the Site location.

The SC was performed in response to an Administrative Order on Consent (AOC) (Index No. A1-0595-08-07) issued by the New York State Department of Environmental Conservation (NYSDEC), requiring environmental assessment of former alternative gas plants and Hortonsphere locations. The AOC is a general compliance requirement; it does not presume that environmental impacts are present due to Hortonsphere-related operations.

GEI prepared a SC Work Plan (SCWP) in November 2007, which was subsequently approved by NYSDEC in a letter dated November 16, 2007, to National Grid. The approval letter is provided in Appendix A. GEI implemented the SC fieldwork in November and December 2007; soil vapor re-sampling occurred on February 4, 2008 (after the analytical laboratory reported that soil vapor samples submitted in November 2007 were not properly logged in or handled). Field activities were conducted in general accordance with the SCWP and the AOC. Deviations from the approved SCWP are noted in subsection 2.2.7 of this report. This report meets the general requirements set forth in the *NYSDEC Draft DER-10 Technical Guidance for Site Investigation and Remediation* (December 25, 2002).

GEI conducted a Supplemental Site Characterization (SSC) at the Site, in response to NYSDEC's October 30, 2008 comment letter requesting additional characterization of surface soils, and resampling of metals in one groundwater well (EHS-GW-01). A SSC Work Plan (SSCWP) was prepared in January 2009, approved by NYSDEC, and implemented on February 18, 2009 (Appendix B).

The remainder of Section 1 discusses the SC objectives and scope, presents a description of the Site, the current use of the Site and surrounding properties, the history of the Site and the physical and environmental setting of the Site.

Sections 2 through 6 of this report convey the methods, findings, and interpretation of the Site data obtained during implementation of the SC. Section 2 discusses the SC scope of work and methods employed during the field investigation. Section 3 discusses the site-specific geology and hydrogeology underlying the Site. Section 4 presents the data and information acquired during field investigations. Section 5 presents a Qualitative Human Health Exposure Assessment (QHHEA), and Section 6 presents a Fish and Wildlife Resources Impact Analysis (FWRIA). Section 7 summarizes key findings and conclusions.

1.1 SC Objectives

The SC was designed to meet three objectives:

- Assess whether gas storage in the Hortonsphere resulted in the potential release of Contaminants of Potential Concern (COPCs) at the Site (these COPCs are described in detail in subsection 1.2.5, below);
- Identify the potential for human exposure to COPCs that may have been released; and,
- Evaluate whether any such releases have had an adverse affect on the surrounding ecology.

Section 2, *Site Characterization Scope of Work*, describes in detail how the SC was executed to generate the data and information necessary to meet the three objectives presented above.

1.2 Site Description

The Hortonsphere is located on approximately 1.74 acres at the intersection of Fresno Place and Railroad Avenue (west of the intersection of Railroad Avenue and Race Lane) in East Hampton. The Hortonsphere facility encompasses a small portion of the overall parcel. Most of the parcel is occupied by an electrical substation. The current parcel and relevant features are depicted in Figure 2. The Site is defined by the Hortonsphere footprint and immediately adjacent surroundings. Photographs of Site features are provided in Appendix C.

The overall parcel is bounded to the east and south by privately owned properties, fronting on Race Lane to the east and Gingerbread Lane to the south. A gravel surface is present beneath the Hortonsphere.

The current boundaries are based on a 1972 survey map (Appendix D).

1.2.1 Current Ownership and Use

The 1.74 acres parcel is currently owned by the Long Island Power Authority (LIPA). LIPA also owns and operates the adjacent electrical substation. The Hortonsphere, associated compressor buildings, and security fencing around the Hortonsphere are owned and maintained by National Grid. National Grid operates the gas facilities on the Site under an easement from LIPA. The Hortonsphere is functional and is currently used for natural gas storage. Several inches of gravel cover the ground beneath and immediately surrounding the Hortonsphere. Future site use is expected to remain as it is today.

1.2.2 Surrounding Property Use

The adjoining property use is a mixture of commercial, industrial, and residential land use. Railroad tracks and associated parking areas reside to the north of the Site. Industrial and commercial buildings and uses are adjacent to the east, west, and southern boundaries of the property.

1.2.3 Site History

The East Hampton Electric Light Company plant operated at the Site from circa 1909 until sometime after 1920, based on 1909 and 1920 Sanborn Fire Insurance (Sanborn) maps. A railroad spur for loading and unloading materials, presumably coal for electric generation, is depicted on the insurance maps; this is consistent with 1909 and 1929 maps that depict the presence of Dynamos. The 1929 Sanborn map indicates that the Site was used as an electrical substation and by the Long Island Light Company (LILCO). This use remains apparent in the 1936 and 1943 Sanborn maps.

A small gasometer (a term that was sometimes used interchangeably with "Hortonsphere") was first depicted on the 1936 Sanborn map of the Site. According to the Sanborn maps, the gasometer was present until at least 1943. No gas production facilities were depicted on the Sanborn maps. The Hortonsphere currently stores and distributes natural gas. The location of the Hortonsphere is shown on Figure 2. Appendix D provides historical documentation.

The Sanborn maps illustrate structures and equipment present at the Site over time, and they demonstrate that gas operations did not occur on the parcel east of the Site. The Sanborn maps do not provide a conclusive record of property boundaries. In fact, in some of the maps boundaries are absent. Current property boundaries (Figure 2) are based on a 1972 survey map (Appendix D).

1.2.4 Hortonsphere Construction Methods

Spherical steel tanks called "Hortonspheres" were designed by George T. Horton, to contain gas under pressure (Morgan, 1935). Horton was the president of the Chicago Bridge and Iron Works (CBI), the firm that built the first Hortonsphere in the world, in 1923 (CBI, 2008). Horton demonstrated that the amount of steel required for a spherical structure was less than that required for a cylindrical tank of the same capacity, due to the structural advantages provided by the sphere. CBI built most of the Hortonspheres on Long Island, according to National Grid archive documents and CBI.

Morgan (1935) pointed out that Hortonspheres contained no moving parts or liquid seals (Appendix D), and did not mention the use of other metals in construction of the sphere.

It did indicate that "oil" might be present in an operational Hortonsphere, and that aluminum or other paints were used for exterior protection.
Ken Petro, archivist at CBI, was contacted (2008) to inquire about the use of metals other than steel in Hortonsphere construction. Petro reported that metals other than steel were not known to be used.

A review of Long Island gas manufacture and distribution (1907-1950) is included in Appendix E. No other information on the storage volume, storage tank maintenance requirements, supply network, distribution system, or demolition records of the East Hampton Hortonsphere are available.

1.2.5 Potential Site Impacts

Past storage of both natural and manufactured gas had the potential to release associated substances/chemical compounds. Some of the compounds, depending on the type and length of exposure, may pose a risk to human and ecological health. These substances are COPCs, as follow:

- Sulfur – an odorant added to natural gas. Natural gas has no inherent, detectable odor; the addition of sulfur was a safety feature that alerts natural gas users to the presence of unburned gas in air.
- Polychlorinated Biphenyls (PCBs) – PCBs were formerly used in cooling, lubricating, and sealing oils sometimes associated with compressor and valve stations. As a result, some PCBs may have entered the gas distribution and storage systems including the Hortonsphere.
- Lead is sometimes found at Hortonsphere sites because leaded paint may have been used to paint and prevent rusting of metal structures.
- Polynuclear aromatic hydrocarbons (PAHs), and benzene, toluene, ethylbenzene, and xylenes (BTEX) are fractions of petroleum hydrocarbons that can be associated with condensate from manufactured gas and natural gas.

1.3 Physical and Environmental Setting

The Site is located at latitude 40.96637°N and longitude 72.19791°W. The topography of the Site is generally flat and it lies at an elevation of approximately 50 feet above sea level.
It is approximately 1.25 miles north of the Atlantic Ocean. The following sections provide an overview of the geologic and hydrologic setting.

1.3.1 Regional Geology

Long Island is within the Atlantic Coastal Plain physiographic province. The geologic units compromising the south fork of Long Island, in order of shallowest to deepest, consist of Holocene-aged beach and marsh deposits of the Upper Glacial Aquifer, thick sequences of Pleistocene-aged glacio-fluvial deposits of the Magothy Aquifer, and Cretaceous aged shallow marine and terrestrial sediments of the Lloyd Aquifer overlying a southeastward-sloping bedrock surface (Soren, Julian and Simmons, 1985). The Raritan Clay, an aquitard (a low-conductivity layer that restricts vertical groundwater flow), separates the Magothy Aquifer from the Lloyd Aquifer. The underlying bedrock consists of relatively impermeable Precambrian-aged crystalline metamorphic and igneous rock. The bedrock surface is considered the bottom hydraulic boundary of the groundwater flow system within the study area as well as for the rest of Long Island. In the vicinity of the Site, the thickness of unconsolidated deposits overlying bedrock is approximately 1,000 feet (Busciolano, R., 2002).

1.3.2 Regional Hydrology

The saturated sands and gravels of the Upper Glacial, Magothy and Lloyd deposits form Long Island's three major aquifers. Together, these constitute Long Island's Sole Source Aquifer System, as designated by the United States Environmental Protection Agency (EPA) pursuant to Section 1424(e) of the Safe Drinking Water Act. The uppermost aquifer is the Upper Glacial aquifer, which immediately underlies the Site. Recharge for the Magothy aquifer on the south fork of Long Island occurs through the Upper Glacial aquifer. A groundwater divide exists through the south fork of Long Island, with groundwater north of the divide flowing northward (into Peconic Bay, Noyack Bay, Sag Harbor Cove, Gardiners Bay and Napeague Bay) and groundwater south of the divide flowing southward toward various local bays and inlets or directly into the Atlantic Ocean (United States Geological Survey [USGS] Water Supply Paper 2073, 1982).

Horizontal hydraulic conductivities of the Upper Glacial aquifer on the south fork are reported to range from 159 feet/day (Fetter 1971) to 350 feet/day (USGS Water Supply Paper 2073). Vertical hydraulic conductivities within the Upper Glacial aquifer can be highly variable due to the presence of silty-clayey sand units identified throughout this aquifer in certain parts of the south fork. Hydraulic conductivities in the Magothy aquifer are approximately 50 feet per day (horizontal) and 1.4 feet per day (vertical). The Raritan Clay, which separates the Magothy Aquifer from the lower Lloyd Aquifer, exhibits hydraulic conductivities of 0.01 feet per day (horizontal) and 0.001 feet per day (vertical) (N.E. McClymonds and O.L. Franke, 1972; and McClymonds and Franke, 1970). These extremely low hydraulic conductivities effectively inhibit infiltration and discharge through the Raritan Clay.

1.3.3 Water Use

According to the Suffolk County Water Authority (SCWA) Service Area map, public water is provided to the Site and surrounding area. The water supply comes from the Upper Glacial, Magothy and Lloyd aquifers (Suffolk County Water Authority, 2007). Environmental Data Resources, Inc. (EDR) radius map indicates there are no public supply wells within a one-half mile of the Site.

1.3.4 Climatology

A summary of the monthly climatologic records collected at the MacArthur Airport in Islip, New York was reviewed and is provided as Table 1. The airport is located approximately 60 miles to the southwest of the Site and its weather records are considered representative of weather conditions at the Site. The average monthly maximum temperature was 61°F and the average monthly minimum temperature was 44°F. The lowest average monthly maximum temperature was 39°F recorded for January and the highest average monthly maximum was 83°F recorded for July. The average annual precipitation (rainfall) for the area is 46.25 inches with the largest monthly precipitation of 4.76 inches, occurring in March.

Selected climatic conditions were recorded during fieldwork in November and December 2007. The average maximum temperature was 51°F and 42°F, for November and December 2007, respectively. The average minimum temperature was 35 and 28°F, for November and December 2007, respectively. Precipitation was 3.22 in November 2007 and 4.64 inches in December 2007. Average wind speed was 9 miles per hour in November 2007 and 10 miles per hour in December 2007 (mph) (Table 1).

1.4 Previous Investigations

No previous environmental investigations related to the Site are known by GEI or National Grid to have been performed.

2. Site Characterization Scope of Work

Prior to the preparation of the SCWP, GEI conducted a reconnaissance of the Site and reviewed historic information sources as follow:

- 1957, 1960, 1980, and 1994 aerial photographs;
- 1909, 1920, 1929,1936, and 1943 Sanborn maps;
- 1943, 1966, and 1976 USGS topographic maps; and,
- EDR Radius Report.

The SC objectives (subsection 1.1), the potential presence of COPCs (subsection 1.2.4), and the historic information influenced the type of environmental sampling and the number and depth of sampling locations proposed in the NYSDEC-approved SCWP.

The remainder of Section 2 describes the methods and procedures applied during Site characterization. Detailed field procedures were provided in the SCWP. Fenley & Nicol Environmental, Inc. of Deer Park, New York advanced all soil borings and installed monitoring wells. GEI provided oversight of all field activities, installed soil-gas sampling points, and collected all samples. Test America Laboratories of Shelton, Connecticut, a New York State Analytical Services Protocol (NYSASP)-certified laboratory, completed all soil and groundwater sample analyses. Alpha Woods Hole Labs of Westboro, Massachusetts completed all analysis of soil vapor samples.

2.1 SC Field Work

GEI implemented the SC fieldwork in November and December 2007; soil vapor re-sampling was conducted in February 2008; SSC fieldwork was conducted in February 2009.

2.1.1 Utility Mark Out

Prior to commencement of intrusive activities, Utility Survey Corp (USC) of New Windsor, New York conducted a site-specific underground utility mark-out under the direct supervision of GEI personnel. A magnetic induction survey was conducted to identify potential underground utilities. Detected utilities were marked in accordance with American Public Works Association (APWA) Uniform Color Code For Marking Underground Utility Lines. In addition, GEI personnel hand-cleared at each boring location to a depth of 7 feet before mechanical drilling was initiated.

2.1.2 Air Monitoring

Perimeter air monitoring (upwind and downwind of the work zone) and monitoring of air in the breathing space of the work zone was performed continuously during drilling and material handling operations. Wind direction was determined from flagging mounted on the air monitoring station. A photoionization detector (PID) was used to monitor the levels of organic vapors in the ambient air and a Mini RAM^{TM} PM-10 particle detector was used to monitor respirable dust particles (0.1-10 micrometer range) during the fieldwork. No vapors or particulates were detected during field operations by the monitoring equipment.

2.1.3 Soil Sampling and Temporary Monitoring Well Installation

This subsection describes the methodology used to collect soil samples during the SC. Table 2 presents a sample collection rationale and summary of laboratory analyses performed for each sample.

2.1.3.1 Surface-Soil Sampling

Surface-soil sampling was conducted in accordance with the SCWP at six locations at the Site (EHS-SS-01 through EHS-SS-06, Figure 2). Four additional surface soil samples were collected 50 to 100 feet outside the fenced confines of the Hortonsphere in accordance with the SSCWP (EHS-SS-07 through EHS-SS-10, Figure 2). The additional samples were collected to provide enhanced information regarding the presence of lead, arsenic, and certain PAHs, and to evaluate whether the Site might be the source of pesticides and herbicides at private groundwater wells cross-gradient of the site, per request of the New York State Department of Health (NYSDOH). The surface-soil samples were collected from the 0- to 2-inch soil interval below the vegetative root zone.

Surface soil samples were placed directly into certified pre-cleaned containers and held in ice-filled coolers until the end of the day. The samples were then shipped overnight to Test America, Inc. (the analytical subcontractor) in Shelton, Connecticut for chemical analysis.

The surface soil samples were analyzed to determine whether COPCs were present. The specific analyses follow:

- Volatile Organic Compounds (VOCs) - EPA Method 8260B
- Semivolatile Organic Compounds (SVOCs) by (EPA) Method 8270C
- Target Analyte List (TAL) metals by EPA 6000/7000 series
- Sulfide by EPA Method 376.1
- Sulfate by EPA Method 300
- PCB and Pesticides by EPA Method 8082
- Herbicides by EPA Method 8151A

The four surface soil samples collected during the SSC were additionally analyzed for the herbicides atrazine, simazine, and metalochlor by the following methods:

- Atrazine and simazine by EPA Method 8270C
- Metalochlor by EPA Method 8081

2.1.3.2 Soil Borings

Five soil borings were advanced using GeoProbe® direct-push methods to gather subsurface soil samples, evaluate subsurface soil conditions, and install monitoring wells EHS-GW-01 and EHS-GW-03. Soil samples were collected using dedicated 5-foot MacroCore® sampling sleeves. A truck-mounted hollow-stem auger (HAS) rig was used to install wells EHS-GW-02, EHS-GW-04, and EHS-GW-05 because the GeoProbe® rig, while effective to depth for collection of soil samples, was not able to advance augers to well installation depths.

Each sample was screened with a PID, visual and olfactory observations were recorded, and soils were continuously logged. At sampling locations overlain by asphalt, sampling began immediately beneath the asphalt and the underlying gravel base. Soil boring logs are provided in Appendix F. Excess soil (not collected for analytical sampling) from each sample interval in each boring was sealed in "zip-lock" bags, placed in a relatively warm location, and the headspace was screened later with a PID to determine if detectable organic vapors were present. PID readings did not indicate the presence of volatile compounds.

Two soil samples were selected for chemical analysis from each of the borings. The SCWP specified that the first sample should be collected from the most apparently impacted material in the upper 5 feet of the boring. The second sample was to be collected from most apparently impacted material beyond 5 feet. However, no impacts were apparent based on PID readings, visual assessment, or olfactory detection. Therefore, the first sample in each boring was collected from the 4.0 to 5.0 foot interval. The second sample at each boring was collected approximately 2 feet above the groundwater table.

Subsurface soil samples were analyzed for the same suite of chemicals as surface soil samples (subsection 2.1.3.1, above). Analytical detail is provided in Table 2.

2.1.3.3 Temporary Monitoring Well Installation

The five soil borings were converted to temporary monitoring wells (EHS-GW-01 through EHS-GW-05). All wells were constructed with 2-inch polyvinyl chloride (PVC) 0.01-inch slotted 10-foot screens to straddle the apparent groundwater table. This configuration allowed for detection of potential light, non-aqueous phase liquids (LNAPL), such as oil. All wells screens were installed from 41 to 51 feet below ground surface (bgs). The annular space surrounding the screen was filled with No. 2 sand to 2 feet above the top of the screen.

Per National Grid request, all wells were fitted with flush-mount "road boxes" set in a concrete collar to reduce the potential that the wells could be tampered with. These wells will be abandoned when they are no longer necessary.

2.1.4 Groundwater Sampling

Groundwater samples were collected from all the temporary monitoring wells. Groundwater levels were also obtained from all five monitoring wells at low and high tide on February 4, 2008 to evaluate possible tidal influences. An additional round of groundwater elevations was recorded on June 25, 2009, to determine if the February 2008 measurement at well EHS-GW-02 was anomalous. Table 3 provides a summary of groundwater elevations. Tidal stage information was obtained from the National Oceanic and Atmospheric Administration (NOAA).

2.1.4.1 Purging

Low-flow groundwater purging and sampling was specified in the SCWP, based on the assumption that the groundwater table would be relatively shallow. However, groundwater was deeper than expected (approximately 42 feet bgs) and the peristaltic pump planned for low-flow sampling has an effective depth of 25 feet and less (it is limited by atmospheric pressure). Therefore, a Grundfos submersible pump with a variable controller was used to purge and sample four of the four wells (EHS-MW-02 through EHS-MW-05). EHS-MW-01 was sampled using a disposable bailer in February 2008 (See subsection 2.1.8), and the sample was visibly turbid. EHS-MW-01 was re-sampled on February 18, 2009 using a low-flow bladder pump to reduce turbidity and generate additional data to evaluate the difference in metals concentrations between February 2008 and February 2009. The results are discussed in subsection 4.3.

Purging rates for the Grundfos pump were held to the lowest possible discharge rate, with slight variation caused by groundwater conditions. Typical pumping rates of 550 milliliters (mL) per minute were achieved. New clean pump tubing was used at each well and disposed of after each well was sampled.

Purged groundwater was monitored for field parameters (temperature, pH, conductivity, dissolved oxygen, oxidation/reduction potential [ORP], and turbidity) to ensure that representative formation water was sampled. Flow rates and purge volumes were recorded concurrently with field parameter measurements. Wells were sampled after at least one well volume was purged and the values of measured field parameters stabilized, as described in the SCWP. If the measured field parameters did not stabilize, then the sample was collected after at least three well volumes were purged from the well. Table 4 presents the final groundwater field parameter readings and physical observations of the purge water before sample collection.

2.1.4.2 Sampling

After purging, groundwater samples were collected and placed into laboratory-preserved containers provided by Test America Labs. Groundwater samples were analyzed for the same suite of compounds as surface soil and subsurface soil samples.

Initially, the analytical laboratory missed the holding time for SVOCs in sample EHH-GW-03, and the results for this sample were rejected during data validation. However, GEI resampled the well and acceptable, validated data are included in this report.

2.1.5 Soil Vapor Sampling

Soil vapor sampling was completed at three locations at the Site (EHS-SV-01 through EHS-SV-03, Figure 2). Table 2 presents the rationale for each soil vapor point and the analysis completed for each point.

Three temporary soil vapor sampling points were installed with a 6-inch stainless steel soil gas point approximately 5 feet below grade. The borings were backfilled with sand and a 2-inch layer of bentonite paste was used to adequately seal the ground/surface interface and prevent outdoor air infiltration into the sample. A helium tracer test was also performed to assess ambient air infiltration.

Three volumes of soil vapor were purged from each point prior to sampling. Samples were collected with a 2.7-liter (L) Summa canister and analyzed for VOCs and naphthalene, according to EPA method TO-15. Samples were collected over a thirty-minute period with flow controller at a rate of approximately 0.1 L per minute.

2.1.6 Data Management

NYSASP Category B data deliverables were provided and the analytical results were validated by GEI to assess the quality and usability of the data. All data were found to be valid and usable for the purposes of this SC.

2.1.7 Survey

At the conclusion of the SC field activities, a New York State-licensed land surveyor (NY LS #050146) located the borings, well locations, soil vapor points and surface soil sample locations. The survey was conducted to A-2 standards of accuracy, with an approximate horizontal and vertical precision of ±0.02 feet. Surveyed well elevations are included in Table 3, and surveyed contours are shown in Figure 2.

Point coordinates were referenced to the New York State Plane Coordinate System (Long Island Zone, North American Vertical Datum [NAVD] 1983) as determined by differential Global Positioning System (GPS) observations.

Point elevations are expressed as heights above the ellipsoid NAVD 1988. This datum is not directly related to sea level; however, the record elevations related to the tidal benchmark at Bridgeport, Connecticut (closest recording station to the Site) indicates that mean sea level has an NAVD 1988 elevation of -0.22 feet (National Oceanic and Atmospheric Administration, 2007), indicating that within the general site vicinity, the data are compatible.

The locations of the four surface soil samples collected during the SSC on February 18, 2009, were measured with a tape from known (surveyed) points.

2.1.8 Work Plan Modifications

The SC was completed substantially as specified in the SCWP. Several modifications of the scope were made that did not affect the objectives of investigation, as follows:

- GeoProbe® equipment was not powerful enough to support installation of 2-inch PVC at locations EHS-GW-2, EHS-GW-4, and EHS-GW-5. Therefore, a truck-mounted 4.25-inch hollow stem auger rig was used to install these wells.

- Continuous sampling was performed on all subsurface borings except EHS-GP-05, where samples were collected from 0-10 feet bgs, 15-20 feet bgs, 25-30 feet bgs, and 40-45 feet bgs. The sampling was observed and documented by field staff; four intervals were not collected due to known uniformity of the subsurface and field work deadlines.

- Soil vapor samples were collected during the initial field investigation. However, the analytical laboratory mishandled the samples and re-sampling was necessary in February 2008.

- Peristaltic pumps could not be employed because depth to groundwater was significantly deeper than expected. EHS-MW-01 was purged and sampled using a disposable bailer because it was the only other sampling equipment on hand at the time. The remaining four wells, EHS-MW-02 thru EHS-MW-05, were purged and sampled using a 2-inch Grundfos submersible pump. Groundwater samples were collected over a period of 2.5 weeks due to monitoring well installation delays and equipment failures.

During data validation, the SVOC analytical results for sample EHS-GW-03 were rejected because the holding time was missed. The well was resampled for SVOCs only (March 3, 2008) and re-submitted for proper analysis. No SVOC compounds were detected and validation procedures confirmed the results.

3. Site Geology and Hydrogeology

This section documents the site specific-geology and hydrogeology and is based on soil boring and groundwater data acquired during the SC.

3.1 Geology

Surficial geology at the Site was determined through visual inspection of soil samples collected during the field investigation. Soil was described according to the Unified Soil Classification System (USCS) at each surface sample and soil boring location. The soil borings were installed to a maximum depth of 55 feet bgs. Three stratigraphic units, in order of increasing depth, were encountered during the SC activities:

- Fill unit;
- Sand unit, with silt and gravel; and,
- Sand and gravel unit.

The observed soil strata are within the beach marsh deposit geologic unit described in Section 1.

Two geologic cross sections are presented in Figures 3 and 4 to illustrate the site geology. Detailed geologic descriptions are provided in boring logs located in Appendix F. A general description of the stratigraphic units is provided below. Subsurface soil and groundwater analytical results are also presented in Figures 3 and 4. These are discussed in Section 4.

3.1.1 Fill

Coal and ash fragments were observed within the upper 2 feet in sample points positioned near the Hortonsphere. These combustion by-products are consistent with historic site use for electrical generation (subsection 1.2.3). Fill was not present beyond 2.0 feet bgs. As such, extensive filling at the Site apparently has not occurred.

3.1.2 Sandy Silt with Gravel

Native material below fill and/or asphalt was predominantly dark brown sandy silt. This layer extends to a maximum depth of 7 feet. No indications of mottling were observed.

3.1.3 Sand and Gravel

The sand and gravel unit extends uniformly from 7 feet bgs to the base of the deepest boring (55 feet bgs).

3.2 Site Hydrogeology

Monitoring wells EHS-GW-01 through EHS-GW-05 straddle the overburden groundwater table, encountered from approximately 41 to 44 feet below grade. Survey elevations from top of casing were used to determine absolute groundwater elevations that ranged from 7.05 to 7.65 feet NAVD 1988 at high tide. Table 3 presents a summary of depths to groundwater and groundwater elevations at high and low tide, as measured on February 4, 2008 and June 25, 2009.

There is no apparent tidal influence on groundwater elevations at the site. Based on 2008 groundwater elevations, groundwater flows approximately southeast at a gradient of approximately 0.00055 feet per foot. The measurement event in June 2009 demonstrated that the low tide measurement at EHS-GW-02 in February 2008 was anomalous. A groundwater contour map using June 2009 water elevations is presented in Figure 5.

4. Findings

This section of the report presents the physical and analytical results of samples collected to characterize surface soil, subsurface soil, groundwater, and soil vapor at the Site. Analytical results (detected compounds only) are presented in Tables 4, 5, 6, 7, and 8. A summary of analytical results is presented in Figures 3, 4, 5, 6, and 7. The analytical data presented in Tables 5 through 8 include qualifiers based on the validation. Appendix G presents the data usability summary report. An electronic version of the chain-of-custody forms, data validation reports, and the validated laboratory Form I reports are also included in Appendix G.

In accordance with NYSDEC regulations, soil results were compared to Title 6, Chapter 100, Part 700-705 of the New York State Code of Rules and Regulations (6NYCRR) Part 375 Restricted Residential Use Soil Cleanup Objectives (the "Residential SCOs") and Restricted Industrial Use SCOs (the "Industrial SCOs"). In the absence of Residential SCOs, results were considered against relevant standards, criteria, and guidelines (SCGs). Comparison of COPC concentrations at the Site to both Residential and Industrial use SCOs is helpful because Site impacts can be rapidly "screened" for both land use scenarios, with final significance determined based on actual current and expected future Site use.

Sections 5 and 6, respectively, present the findings of the QHHEA and the ecological screening assessment.

4.1 Surface Soil

Surface soil analytical results are presented on Table 5 (detected compounds only) and summarized on Figure 6.

Samples EHS-SS-01 and EHS-SS-02 were collected from grassy locations outside the Hortonsphere fence. Sample EHS-SS-03 was collected from bare soil (pathway) outside the fence around the Hortonsphere. Samples EHS-SS-04, EHS-SS-05, and EHS-SS-06 were collected inside the fence, beneath the Hortonsphere. Approximately 2 inches of gravel was present beneath the Hortonsphere; the samples were collected from soil below the gravel.

Additional surface soil samples were collected during the SSC to better define the presence of lead, arsenic, and PAHs and evaluate whether the Site might be the source of pesticides and herbicides in nearby private groundwater wells. EHS-SS-07 and EHS-SS-09 were collected in the grassed area outside the fenced confines of the Hortonsphere 50 feet and 100 feet to the west near the property boundary. EHS-SS-08 and EHS-SS-10 were collected in the grassed area outside the confines of the Hortonsphere 50 feet and 100 feet to the south.

No VOCs or BTEX compounds were detected in surface soil samples collected at the Site. Therefore, VOCs are not an issue.

PAH compounds were detected in all the surface-soil samples collected at the Site, though most detections were below the Residential SCOs. Total PAHs ranged from 1.158 milligrams per kilogram (mg/kg) in sample EHS-SS-06 to 139.94 mg/kg in sample EHS-SS-03.

One soil sample, EHS-SS-03, contained concentrations of several PAH compounds in excess of the Residential SCOs. Benzo(a)pyrene and dibenz(a,h)anthracene exceeded the individual SCOs for Industrial use. However, the duplicate sample of EHS-SS-03 was free of PAHs in excess of the Residential PAH standards and the concentrations of PAHs and metals were within the same low order of magnitude as in the other samples that met the Residential SCOs; total PAHs in all of these samples were less than 4.2 mg/kg. Coal and asphalt fragments, presumably from historic site operations, were observed in the upper 1 foot of soil at the Site. These may have caused the elevated concentrations of PAHs in EHS-SS-03 and the PAH detections are not regarded as evidence of a release.

Lead was detected in all ten surface soil samples ranging from 25.4 mg/kg in EHS-SS-09 to 1,220 mg/kg in EHS-SS-05. Lead concentrations in three samples (EHS-SS-03, EHS-SS-04, and EHS-SS-05), exceeded the Residential SCO of 400 mg/kg. However, lead concentrations in all samples were less than the Industrial SCO of 3,900 mg/kg. The likely lead source is the Hortonsphere structure (from paint used to inhibit rust development). However, lead is not present in Site groundwater and subsurface soil lead concentrations are minimal (non-detected or below the Residential SCOs). No visual evidence of paint flakes or chips were noted during soil sampling activities.

Chromium was detected at concentrations above the Residential SCO (22 mg/kg) in three surface soil samples (EHS-SS-03, EHS-SS-04, EHS-SS-05) at 29.1 mg/kg to 114 mg/kg. The Industrial SCO for chromium is 800 mg/kg. It was not exceeded.

Sulfate and sulfide were detected in four out of six samples. NYSDEC has not established standards for either compound. However, both are common in soils and are not generally regarded as a health risk. The concentrations do not suggest release of a sulfur-containing natural gas odorant such as Mercaptan.

PCBs did not exceed either the Residential or Industrial SCOs.

All ten surface soil samples contained detectable concentrations of arsenic. Five of the ten samples (EHH-SS-01, EHH-SS-03, EHH-SS-04, EHS-SS-05 and EHS-SS-08) exceeded the Industrial SCO of 16 mg/kg. With the exception of sample EHS-SS-05, all samples contained relatively similar arsenic concentrations with a range between 4.5 and 67.8 mg/kg.

Sample EHS-SS-05 was collected from soil below gravel directly under the Hortonsphere and contained an elevated detection of 205 mg/kg. Access to this location is restricted by fencing and a locked gate.

Arsenic concentrations at eight other Long Island historic Hortonsphere sites were reviewed to evaluate whether arsenic is apparently correlated with Hortonsphere operations. At five of the sites (Bellmore, Lynbrook, Manhassett, Pinelawn, and Riverhead) arsenic was either not detected or was detected at concentrations less than the Residential standard. At Port Jefferson, only one out of six surface soil samples contained arsenic at a concentration above the Residential SCO. Based on these results, arsenic is not a Hortonsphere-related COPC.

Minor concentrations of arsenic can be attributed to background levels. Elevated concentrations may be related to past applications of pesticides or herbicides because they are persistent compounds, widely used agriculturally and industrially.

Pesticides were detected in all of the surface soil samples. However, their concentrations were less than the Residential SCOs. Pesticides including Dichlorodiphenyltrichloroethane (DDT) and its byproducts, Dichlorodiphenyldichloroethylene (DDE) and Dichlorodiphenyldichloroethane (DDD), were widely applied on Long Island to mitigate nuisance pests during the 1940s and 1950s (Dunlap, 1981). A 1957 photograph of the area surrounding the Site indicates agriculture was the dominant land use at that time. It is likely the concentrations are residual pesticide applications on the Site or in the vicinity. Furthermore, these compounds are persistent and not directly related to Hortonsphere gas storage. Atrazine, simizine, and metalochlor were not detected in any of the four surface soil samples collected at the request of NYSDOH, demonstrating the Site is not the source of these chemicals in nearby groundwater.

Copper concentrations were detected in all ten soil samples, at concentrations below the Residential SCOs. Copper is naturally occurring and commonly found in soil, but it is also used in agriculture as a fungicide and frequently found in coal and fly ash. In addition, these copper concentrations are well within background concentrations found in northeast US soils.

Finally, the frequency and magnitude of copper detections for nine other Hortonsphere sites on Long Island (Bellmore, Riverhead, Lynbrook, Saltaire, Port Jefferson, Pinelawn, Oyster Bay, Manhasset, and Southold) were compared to evaluate the potential for similar findings or common trends. There were no apparent trends; based on these data and information regarding Hortonsphere construction, the copper source does not appear to be Hortonsphere-related. Copper at the Site is more likely related to natural, agricultural, or former coal combustion.

4.2 Subsurface Soil

Subsurface soil is defined as soil deeper than 2 inches bgs. No unusual or petroleum-like odor, staining, or sheen was observed in subsurface soil at the Site. Analytical results of the subsurface soil samples are presented on Table 6 (detected compounds only) and Figure 7.

No VOCs, SVOCs, PCBs, metals, or pesticides were detected in samples collected at the site at concentrations above the Residential SCOs. Therefore, they are not a concern.

4.3 Groundwater

Groundwater analytical results acquired during the SC are presented in Table 7 (detected compounds only). A summary of analytical results is presented in Figure 5.

Benzene was detected in EHS-MW-02 at 2.8 micrograms per liter (µg/L), exceeding the SCG of 1 µg/L. A duplicate sample was collected from this monitoring well with a detection of benzene at 0.79 µg/L, below the SCG. MW-02 is located upgradient of the Site and adjacent to Railroad Avenue. Considering the fact that benzene was not detected in subsurface soils or other groundwater samples, the low concentration of benzene in this groundwater sample is most likely the result of an upgradient, off site source.

No other VOCs were detected except for the chlorinated compound tetrachloroethene (PCE), in the EHS-GW-04 sample. The concentration was less than 1 ug/L, below the SCG. PCE is a solvent-related compound.

Benzo(a)pyrene, benzo(k) flouranthene, and chrysene were present at concentrations above the associated SCGs in well EHS-GW-05. These compounds are nearly insoluable in water and as such, may have been sorbed to suspended solids in the sample.

Lead was detected in EHS-MW-01 above applicable SCGs. EHS-MW-01 was sampled using a bailer and the sample was visibly turbid. Elevated lead concentrations are likely due to suspended soils in the sample. In addition, EHS-MW-01 is the most upgradient monitoring well and as such, it characterizes groundwater quality as it enters the property. EHS-MW-01 was re-sampled for metals on February 18, 2009 using a bladder pump and collecting the sample only after turbidity levels were less than 50 Nepholometric Turbidity Units (NTUs). The concentrations of all metals (except sodium) were significantly reduced, to non-detected or below the SCGs; lead was not detected at EHS-MW-01 in the February 18, 2009 sample.

Two insecticides, dieldrin and 4,4,4-DDD, were detected in EHS-MW-02 at concentrations of 0.012 and 0.03 mg/kg, respectively. The dieldrin detection exceeded the SCG of 0.004 µg/L. Insecticides are most likely related to past pesticide applications on the Site or in the vicinity (subsection 4.1).

Arsenic, thallium, and chromium were initially detected in EHS-MW-01 above applicable SCGs. EHS-MW-01 is the most up-gradient monitoring well and as such, it characterizes groundwater quality as it enters the property. The elevated metal concentrations were apparently a function of suspended solids in the sample. As described above, when EHS-MW-01 was re-sampled in February 2009 (using a bladder pump and collecting the sample when turbidity was less than 50 NTUs), metals were either not detected or detected at concentrations below applicable SCGs.

Three other metals (sodium, manganese, and iron) were detected in four of the five groundwater samples above the NYSDEC SCGs. The broad detections suggest the constituents are naturally occurring and the relative uniformity of detected concentrations supports this conclusion.

4.4 Soil Vapor

Soil vapor analytical results for detected compounds are presented on Table 8 and are representative of the conditions above the water table. The soil vapor sample locations are identified in Figure 2.

New York State currently does not have any standards, criteria or guidance values for concentrations of compounds in soil vapor and there are no databases available of background levels of volatile chemicals in soil vapor.

Analysis of soil vapor samples indicated the presence of several VOCs. Many of these compounds are not associated with gas holder operations and may be related to various surrounding land uses.

4.5 Non-Aqueous Phase Liquid (NAPL)

No visual evidence of NAPL was observed during site characterization activities.

5. Qualitative Human Health Exposure Assessment

This section evaluates the qualitative potential for exposure posed to human receptors by COPCs detected in surface soil, subsurface soil, and groundwater at the site at concentrations in excess of the NYSDEC SCOs (Residential use) (subpart 375-6) and SCGs. If the concentrations of compounds detected at the site exceed the Residential SCOs or SCGs (for groundwater) they are addressed below, regardless of potential access to the impacts or their apparent or potential source. Soil vapor is addressed even though there are no standards.

5.1 Exposure Pathways

An exposure pathway describes the means by which a potential receptor may be exposed to contaminants originating from a site. Assessment of potential exposure pathways includes the following five elements (NYSDEC, 2002):

(1) A contaminant source
(2) Contaminant release and transport mechanisms
(3) A point of exposure
(4) A route of exposure
(5) A receptor population

The NYSDEC and NYSDOH consider an exposure pathway complete when all five elements of an exposure pathway are documented. An exposure pathway may be eliminated from further evaluation when any one of the five elements comprising an exposure pathway has not existed in the past, does not exist in the present, and will never exist in the future (NYSDEC, 2002).

5.1.1 Surface Soil

The table below lists the compounds detected in at least one surface soil sample at the Site at concentrations higher than the Residential SCOs. Compounds in bold font exceed the Industrial SCOs.

Benz[a]anthracene	**Dibenz[a,h]anthracene**
Benzo[a]pyrene	Indeno[1,2,3-cd]pyrene
Benzo[b]fluoranthene	**Arsenic**
Benzo[k]fluoranthene	Lead
Chrysene	Chromium

For the Residential use scenarios, potentially complete surface soil exposure pathways exist via ingestion, dermal contact, and inhalation for the compounds listed above. Potential receptors include Adult and Child Visitor, Adult Commercial Worker, Adult Utility Worker, and the

Adolescent Trespasser. However, a complete pathway for trespassers and visitors is contingent upon removal of the overlying gravel and/or grass at the affected locations. As such, the potential for actual exposure is minimal.

Several PAHs are present at levels above the Residential SCOs at an isolated location outside the fence surrounding the Hortonsphere (EHS-SS-03). Benzo[a]pyrene and dibenz[a,h]anthracene exceeded the Industrial SCOs. However, concentrations of PAHs in the *duplicate* sample at this location are well below the Residential SCOs. Therefore, the presence of these COPCs in surface soils at concentrations above the Residential SCOs is not an indication that they are related to former Hortonsphere operations or are a significant site-wide concern in terms of human exposure.

Lead is above the SCOs for Residential use at three locations (EHS-SS-03, EHS-SS-04, EHS-SS-05). However, when comparing the lead levels to the Industrial Use SCOs the lead concentrations are well below the clean up objectives. The same is true for chromium at EHS-SS-03, EHS-SS-04, and EHS-SS-05.

Arsenic exceeded the Industrial Use SCOs at five locations (EHS-SS-01, EHS-SS-03, EHS-SS-04, EHS-SS-05, and EHS-SS-08). However, only sample EHS-SS-05 greatly exceeded the standard and it is within the fenced and locked area beneath the Hortonsphere, which is covered with gravel, further reducing the potential for direct contact.

The concentrations of the other metals are within typical background concentrations found in the eastern United States (Shacklette and Boerngen, 1984) and the presence of arsenic is consistent with background levels found on the South Fork of Long Island.

5.1.2 Subsurface Soil

No VOCs, SVOCs, PCBs, metals, or pesticides were detected in samples collected at the site at concentrations above the Residential SCOs. Therefore, they are not an exposure concern.

5.1.3 Groundwater

The table below lists those compounds detected in groundwater at concentrations higher than the SCGs.

Benzene	Chromium
Benz[a]anthracene	Iron
Benzo[k]fluoranthene	Lead
Chrysene	Manganese
Dieldrin	Sodium
Arsenic	Thallium

Potential receptors include Adult Commercial Worker and Adult Utility Worker. However, because groundwater is so deep (approximately 40 feet) it is well beyond the depths typically accessed by commercial/industrial/utility workers installing or repairing utilities such as sewers, pipelines, and other infrastructure. Therefore, direct contact with groundwater at the Site is not a realistically complete exposure pathway for current or potential future workers.

According to the Suffolk County Water Authority Service Area Map, municipal water is provided to all users in the surrounding area. Therefore, direct contact with or ingestion of groundwater at the Site is not a complete exposure pathway for current or potential future receptors. The groundwater impacts at the site are limited in magnitude and generally at low concentrations. The potential to affect downgradient groundwater quality is minimal.

5.1.4 Soil Vapor

Table 8 presents the soil vapor analytical results for detected compounds.

Analysis of soil vapor samples revealed the presence of VOCs. Many of the VOCs detected are not associated with gas holder operations. The sources of these chemicals are unknown and may be related to various surrounding land uses.

A potentially complete exposure pathway to VOCs in soil vapor exists for utility and construction workers. However, for most VOCs, no realistic risk is present because the soil vapor concentrations are less than those typically found in ambient air. Those VOCs whose concentrations exceeded background air were detected at concentrations lower than the Occupational Safety and Health Agency's Permissible Exposure Limits, which would be applicable in the utility/construction worker scenario.

5.2 QHHEA Summary and Conclusions

There are potentially complete pathways for human exposure to the following compounds that are present in surface soil at concentrations above the Residential SCOs:

Benz[a]anthracene	**Dibenz[a,h]anthracene**
Benzo[a]pyrene	Indeno[1,2,3-cd]pyrene
Benzo[b]fluoranthene	**Arsenic**
Benzo[k]fluoranthene	Lead
Chrysene	Chromium

Bold compounds exceed both the Residential and Industrial SCOs. However, the exceeding PAHs (in one sample only – EHS-SS-03) were not in excess of the SCOs in the associated duplicate sample. They were at levels below the Residential SCOs and asphalt or coal fragments in the primary sample are believed to be the reason for the elevated PAHs.

Arsenic concentrations exceeded the Residential and Industrial SCOs in four samples. A fifth sample (EHH-SS-05) exceeded the Industrial SCO by an order of magnitude, but was detected in the sample collected from within the locked fencing around the Hortonsphere. Actual access to this location is difficult and arsenic is not typically a Hortonsphere-related compound.

Subsurface soil did not contain impacts at concentrations higher than the associated Residential SCOs.

Groundwater contained the following compounds at concentrations higher than the SCGs.

Benzene	Chromium
Benz[a]anthracene	Iron
Benzo[k]fluoranthene	Lead
Chrysene	Manganese
Dieldrin	Sodium
Arsenic	Thallium

However, the site and surroundings are supplied with potable water and depth to groundwater is approximately 40 feet, eliminating potential direct exposures. The groundwater impacts at the site are slight and unlikely to affect downgradient water quality.

Soil vapor did contain several compounds at concentrations higher than "background" outdoor air, but actual risk is minimal because of dilution/dispersion when it migrates to ambient air, and general infrequency of intrusive activities.

Based on Industrial SCOs, there is one realistically potentially complete pathway, for arsenic in surface soil. However, site conditions, site use, and the chemical properties of arsenic limits this potential pathway. The Hortonsphere area is covered with gravel and is surrounded with a chain-link fence topped with barbed-wire. The area outside the Hortonsphere is covered with grass, limiting contact with bare soil. In addition, arsenic is tightly bound to soil, limiting its exposure potential to on-site and off-site receptors.

The current and reasonably anticipated future use of this Site is industrial. It is an active industrial site with the Hortonsphere still in use and there are no current plans to remove it. This reduces the potential of workers excavating at the Site and the likelihood of contact with chemicals in the shallow sub-surface soils.

6. Ecological Screening

This section of the reports describes the Site with respect to potential ecological resources and provides the information necessary to determine if a Fish and Wildlife Impact Assessment is required.

6.1 Overview

The Site is composed of an industrial/commercial cover-type, and mowed lawn with planted trees (Edinger et al. 2002).

6.2 Local and Regional Ecological Research and Site Survey

The New York Natural Heritage Program in conjunction with the NYSDEC indicates that there are certain species and habitats/communities of concern in the vicinity of the Site, but not on the Site. These are described below.

The Piping plover (*Charadrius melodus*) [endangered] and the Least tern (*Sternula antillarum*) [threatened] are known to use habitat in the general area. However, both species have diets and mating habits, they rely directly on shoreline habitat with open sandy regions (Poole et. al. 1992). These physical characteristics do not exist at the Site. These species are not expected to occur as on-site residents, and neither was observed within the Site boundary.

The Frosted elfin (*Callophrys irus*) [a threatened butterfly] and, the Coastal barrens buckmoth (*Hemileauca maia*) [special concern] may be present in the Site vicinity. The Frosted elfin (*Callophrys irus*) requires open woods, forest edges, and specifically wild blue lupin to reproduce. The Coastal barrens buckmoth (*Hemileauca maia*) requires scrub oak-pine sand barrens, oak woods, and oak trees, and was documented by the NY Natural Heritage Group over two miles upgradient of the Site. These species and their required habitat were not observed on or adjacent to the Site.

One endangered and two threatened vascular plant species potentially occur in the vicinity of the Site. These are the Orange fringed orchid (*Platanthera ciliaris)* [endangered], the Velvet bush-clover (*Lespedeza stuevei*) [threatened], and the Southern arrowwood (*Viburnum dentatum var. venosum*) [threatened].

The Orange fringed orchid requires sandy meadows with relatively moist conditions and acidic soils often found adjacent to marshes (Luer 1975). The Velvet bush-clover requires dry upland woods and barrens habitat, and was documented by the NY Natural Heritage Group as present

approximately two miles west of the Site. The Southern arrowwood requires open woodland and wet neutral to acidic soil with partial shade. This species was documented by the NYSDEC as present approximately two miles east of the Site. However, the Site does not provide habitat required for these three plant species, and they were not observed on the Site.

Four significant ecological communities occur within the 2-mile radius of the Site. Maritime dunes and maritime freshwater interdunal swales were documented by the NY Natural Heritage Program as present adjacent to the golf course at Hook Pond and Atlantic Ocean. A pitch-pine forest community is documented over 2 miles upgradient of the Site. A coastal oak-heath forest is documented as present over two miles upgradient of the Site. These communities are located beyond the commercial/residential urbanized areas adjacent to the Site.

According to the National Wetlands Inventory database (US Fish & Wildlife Service, 1994), there are palustrine forested wetlands and two palustrine fresh surface water bodies (Hook Pond and Town Pond) within two miles of the Site to the southeast (Figure 1). Title 6, Chapter 100, Part 700-705 of the 6NYCRR defines these water bodies as "C" - fresh water bodies that may be suitable for primary and secondary recreation, as well as fish propagation and survival. However, Town Pond is completely surrounded by residential/commercial structures, while Hook Pond borders a golf course, residential areas to the north/northwest, and is located within a quarter mile to the Atlantic Ocean. There is no apparent migration pathway for contaminants to move from the Site to these significant communities or to the ponds.

A field reconnaissance survey conducted in October of 2007 did not provide evidence of apparent stress on the ecology at the Site, and did not identify the presence of species of concern discussed above. Species identified within the 2-mile radius of the Site during the field reconnaissance included:

Plants:

- Clipped lawn grasses
- Poison ivy (*Toxicodendron radicans*)
- Wild grape (*Vitis spp*.)
- Sugar maple (*Acer saccharum*)
- English ivy (*Hedera helix)*
- Sassafras (*Sassifras albidum*)
- White pine (*Pinus strobus*)

Birds:

- Ring-billed herring gull (*Larus deliwarensis*)
- House sparrow (*Passer domesticus*)
- Song sparrow (*Melospiza melodia*)
- Pigeon (*Columba fasciata*)

- American robin (*Turdus migratorius*)
- Mourning dove (*Zenaida macroura*)
- Northern mockingbird (*Mimus polyglottos*)

Mammals:

- Gray squirrel (*Sciurus carolinensis*)

All of these species are common throughout the northeast and are not known to face particular challenges due to any COPCs that may be Hortonsphere-related. Furthermore, none were observed living at the Site. As such, these species are transient.

6.3 Ecological COPCs

Lead was detected in surface soil at concentrations exceeding the New York State Residential SCOs, but not in exceedance of the Industrial SCOs.

However, the Site will remain an industrial area with little or no attractive ecological habitat. Therefore, potentially Hortonsphere-related lead will not pose a risk to local ecological receptors because there will be little or no point of contact for transient ecological receptors.

6.4 Decision Key

The NYSDEC's FWRIA guidance provides a decision key to determine if a site requires the performance of a FWRIA. When the site-specific information presented above is used in the Decision Key, it concludes that a FWRIA is not required for the East Hampton Hortonsphere Site, primarily because the Site does not offer particularly attractive habitat for fish or wildlife. The executed Decision Key is presented in Appendix H.

7. Conclusions and Recommendations

The SC was undertaken per the terms of NYSDEC AOC No. A1-0595-08-07 to evaluate soil, soil vapor, and groundwater at the Site and determine if gas storage operations have impacted the environment. Analytical data for these media were evaluated with respect to Residential land use standards to evaluate the potential for human health risks in the event that site access is unrestricted.

The data were also compared to Industrial land use standards because actual land use is now, and is expected to remain, industrial. This use and the associated standards are a more realistic evaluation of potential health risks. This section of the report provides conclusions based on Industrial land use because the Site is currently zoned and used industrially, and future use will remain the same.

Surface Soil

No COPCs except benzo(a)pyrene, dibenz(a,h)anthracene (in one sample), and arsenic exceeded the Industrial SCO in five surface soil samples. The two PAH detections were not replicated in a duplicate sample and are not regarded as a realistic risk. Their presence is attributed to urban conditions and general petroleum product use, not former Hortonsphere operations.

Arsenic was detected in two samples (EHS-SS-04 and EHS-SS-05) within the fenced and locked area surrounding the Hortonsphere, where access is restricted to brief entry by site workers. The other three are outside the fence, but the entire area is covered with gravel and grass and actual potential risk is regarded as low. Furthermore, while arsenic may have been used at the site or in the area as a pesticide and/or herbicide, it is not directly associated with former industrial Hortonsphere operations.

Simizine, atrazine, and metalochlor were not detected in surface soil at the site. Based on their non-detection, the Site is not the source of these chemicals in private wells off-site.

Lead was present in three surface soil samples at or near the Hortonsphere structure at concentrations above the Residential SCOs.

Subsurface Soil

No chemicals detected in subsurface soil samples exceeded the Residential use SCOs.

Groundwater

Groundwater contained the following compounds at concentrations higher than the SCGs:

Benzene	Chromium
Benz[a]anthracene	Iron
Benzo[k]fluoranthene	Manganese
Chrysene	Sodium
Dieldrin	

Lead and arsenic were originally detected in only one groundwater sample (EHS-GW-01). However, resampling the well demonstrated that the lead, arsenic, and thallium were a function of dissolved solids in the sample. Neither lead nor arsenic were present in the low turbidity water collected during re-sampling.

Benzene and dieldrin were detected in excess of the SCGs in the sample from well EHS-GW-02. These impacts are limited to this well, and their source is believed to be off-site, at an upgradient location because this well location characterizes groundwater coming onto the Site.

Wells EHS-GW-03 and EHS-GW-04 were free of detectable impacts in excess of the SCGs.

Three PAH compounds in groundwater at well EHS-GW-05 were in excess of the SCGs. Other SVOCs and one pesticide compound were present at levels below the SCGs. This well is downgradient of separate commercial properties and relatively far from the Hortonsphere. The impacts are not believed to be Hortonsphere related.

Depth to groundwater at the site is approximately 40 feet. There are no wells on site and none are known to exist in the vicinity. This depth prevents access to groundwater, so there are no complete and realistic exposure pathways. Without a pathway, there is no risk.

Soil Vapor

Soil vapor did contain several compounds at concentrations higher than NYSDOH "background" outdoor air, but these concentrations are not evidence that actual risk is present. In addition, chlorinated compounds are not related to typical Hortonsphere operations. Finally, Occupational Health & Safety Administration (OSHA) established Permissible Exposure Limit (PELs) for some of the compounds present in soil vapor at the site are much higher than the associated soil vapor concentrations. Finally, when the vapors have migrated to open air, their concentrations would be reduced by dilution and dispersion. Based on all these factors and the OSHA PELs, actual risk is regarded as unlikely.

Human Health

The QHHEA identified potentially complete pathways between surface soils near the Hortonsphere (that contain PAHs and arsenic at levels above the Industrial Use SCOs) and people on Site. However, Hortonsphere access is restricted by fencing and other restrictions limit the potential for contact with these soils. The Hortonsphere is currently active and there are no plans to remove it. Current use is expected to continue into the future. No significant soil disturbance is expected, and the lack of disturbance minimizes the potential for contact with soil. Potable water is supplied to the Site and surroundings by the municipality. Groundwater is far deeper (approximately 40 feet) than typical excavation depths for foundations or infrastructure. Groundwater at the Site is not used and does not pose a risk.

Ecological Health

The NYSDEC's FWRIA guidance provides a decision key that determines whether impacts are potentially present at the Site. When the decision key is executed using site-specific data, the predicted likelihood of ecological impact is so low that additional assessment is not recommended (primarily because the Site does not provide useful habitat for sensitive ecological receptors).

Final Summary and Recommendation

The findings presented in this report demonstrate that a number of organic and inorganic compounds exceed Residential SCOs or screening values for surface soil, ambient outdoor air, and groundwater. These exceedances suggest that there may be potential risk to human receptors, in a residential setting, as a function of exposure to the compounds.

However, the site is currently used for Industrial practices that are expected to continue indefinitely. Therefore, Industrial standards should be used as guidance. When site analytical results are compared with Industrial standards, only three compounds in surface soil remain as potential concerns. When the locations of the detected compounds are considered, the exposure risk is minimal.

Gas storage operations at the Site have not significantly impacted the environment and do not pose a realistic threat to potential human or ecological receptors as long as site access remains controlled and site use remains industrial. Based upon the findings of the site characterization, the fencing around the Hortonsphere will be lengthened and upgraded and the area within its confines will be covered with a layer of ballast to ensure that exposure to lead in surface soil is mitigated and the Industrial standard is formally attained. In addition, an environmental easement will be imposed and a site management plan will be developed.

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Tables

Table 1
Climatological Norms and Means - MacArthur Airport, Islip, New York
East Hampton Hortonsphere Site
East Hampton, New York

Month:	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	ANNUAL
Climatic Averages for MacArthur Airport, Islip, New York													
Precipitation (inches)	4.27	3.33	4.76	4.13	3.9	3.71	2.93	4.48	3.39	3.36	3.86	4.13	46.25
Average Maximum Temperature (°F)	39	41	48	58	69	77	83	82	75	64	54	44	61
Average Minimum Temperature (°F)	23	24	31	40	49	60	66	64	57	45	36	27	44
Climatic Averages for MacArthur Airport, Islip, New York 2007													
Precipitation (inches)	4.11	2.32	4.97	6.72	1.57	2.88	6.5	2.96	1.31	1.98	3.22	4.64	---
Average Temperature (°F)	36	27	39	48	61	69	74	73	67	61	43	35	---
Average Maximum Temperature (°F)	43	34	47	56	71	77	81	80	76	69	51	42	---
Average Minimum Temperature (°F)	29	20	29	39	50	60	66	65	58	53	35	28	---
Average Wind Speed (mph)	10	12	11	11	9	9	8	7	8	9	9	10	---

Notes:

All data was collected from the U.S. Weather Service weather station located at the MacArthur Airport in Islip, New York.

Climatic Averages for MacArthur Airport were obtained from http://www.weather.com, accessed on February 4, 2008.

2007 Monthly average temperature (degrees Fahrenheit) and precipitation data (inches) were obtained from Weather Underground, http://www.wunderground.com, accessed February, 4 2008.

Table 2
Sample Collection Rationale
East Hampton Hortonsphere Site
East Hampton, New York

Sample I.D.	Sample Location	Sample Rationale	Number of Samples			VOCs (EPA 8260B)	SVOCs (EPA 8270C)	TAL Metals (6000/7000)	Sulfide (EPA 376.1)	Sulfate (EPA 300)	Herbicides (EPA 8151A)	PCBs/ Pesticides (EPA 8082)	VOCs (EPA TO-15)	Atrazine Simizine EPA 8270C	Metalochlor EPA Method 8081
			Soil	Soil Vapor	Groundwater										
Subsurface Soil Borings and Temporary Groundwater Monitoring Points															
EHS-GP-01/ EHS-GW-01	Adjacent (to the north) and upgradient of the Hortonsphere .	Soil boring and temporary groundwater sample to provide soil and groundwater information immediately upgradient of the Hortonsphere.	2	0	1	X	X	X	X	X	X	X			
EHS-GP-02/ EHS-GW-02	Adjacent (to the west) and immediately downgradient of the Hortonsphere.	Soil boring and temporary groundwater sample located immediately downgradient of the Hortonsphere to provide soil and groundwater information immediately downgradient of the Hortonsphere.	2	0	1	X	X	X	X	X	X	X			
EHS-GP-03/ EHS-GW-03	Adjacent (to the southwest) and immediately downgradient of the Hortonsphere.	Soil boring and temporary groundwater sample located immediately downgradient of the Hortonsphere to provide soil and groundwater information immediately downgradient of the Hortonsphere.	2	0	1	X	X	X	X	X	X	X			
EHS-GP-04/ EHS-GW-04	Central portion of site. Downgradient of on-site building.	Soil boring and temporary groundwater sample located adjacent to the building on site.	2	0	1	X	X	X	X	X	X	X			
EHS-GP-05/ EHS-GW-05	Southeast portion of property. Downgradient of facility.	Soil boring and temporary groundwater sample located downgradient of the east side of the property.	2	0	1	X	X	X	X	X	X	X			
Surface Soil Sample Locations															
EHS-SS-01	Located within a grassed area adjacent to the Hortonsphere.	Soil sample to evaluate surface soil conditions adjacent to the Hortonsphere.	1	0	0	X	X	X	X	X	X	X			
EHS-SS-02	Located within a grassed area adjacent to the Hortonsphere.	Soil sample to evaluate surface soil conditions adjacent to the Hortonsphere.	1	0	0	X	X	X	X	X	X	X			

Table 2
Sample Collection Rationale
East Hampton Hortonsphere Site
East Hampton, New York

Sample I.D.	Sample Location	Sample Rationale	Number of Samples			VOCs (EPA 8260B)	SVOCs (EPA 8270C)	TAL Metals (6000/7000)	Sulfide (EPA 376.1)	Sulfate (EPA 300)	Herbicides (EPA 8151A)	PCBs/ Pesticides (EPA 8082)	VOCs (EPA TO-15)	Atrazine Simizine EPA 8270C	Metalochlor EPA Method 8081
			Soil	Soil Vapor	Groundwater										
EHS-SS-03	Located within a grassed area adjacent to the Hortonsphere.	Soil sample to evaluate surface soil conditions adjacent to the Hortonsphere.	1	0	0	X	X	X	X	X	X	X			
EHS-SS-04	Located beneath the Hortonsphere.	Surface soil sample to evaluate surface soil conditions beneath the Hortonsphere.	1	0	0	X	X	X	X	X	X	X			
EHS-SS-05	Located beneath the Hortonsphere.	Surface soil sample to evaluate surface soil conditions beneath the Hortonsphere.	1	0	0	X	X	X	X	X	X	X			
EHS-SS-06	Located beneath the Hortonsphere.	Surface soil sample to evaluate surface soil conditions beneath the Hortonsphere.	1	0	0	X	X	X	X	X	X	X			
EHS-SS-07	Grassy area southwest of Hortonsphere	Generate additional metals and herbicides data	1	0	0	X	X	X	X	X	X	X		X	X
EHS-SS-08	Grassy area south of Hortonsphere	Generate additional metals and herbicides data	1	0	0	X	X	X	X	X	X	X		X	X
EHS-SS-09	Grassy area southwest of Hortonsphere	Generate additional metals and herbicides data	1	0	0	X	X	X	X	X	X	X		X	X
EHS-SS-10	Grassy area south of Hortonsphere	Generate additional metals and herbicides data	1	0	0	X	X	X	X	X	X	X		X	X
Soil Vapor Sample Location															
EHS-SV-01	Located adjacent and downgradient of the Hortonsphere adjacent to adjacent off-site building.	Soil vapor sample to screen the soil vapor at the property line and nearby off-site building.	0	1	0								X		
EHS-SV-02	Located in the southeast portion of the site. Downgradient of the Hortonsphere.	Soil vapor sample to screen the soil vapor at the south end of the property.	0	1	0								X		
EHS-SV-03	Located adjacent and downgradient of the main building on site.	Soil vapor sample to screen the soil vapor in the area of the building on site.	0	1	0								X		

Notes:
Chemical analysis test methods specified are from U.S. EPA SW-846 test methods
EPA TO-15 analysis included VOCs and naphthalene
EPA stands for the Environmental Protection Agency
VOC stands for volatile organic compounds
SVOC stands for semivolatile organic compounds
RCRA stands for Resource Conservation Recovery Act
PCBs stands for Polychlorinated Biphenyls

Prepared by: BC

Table 3
Groundwater Depths and Elevations
East Hampton Hortonsphere Site
East Hampton, New York

Temporary Monitoring Well	Coordinates		Top of Casing (feet NAVD)	February 4, 2008				June 25, 2009	
				Groundwater Depth from TOC (feet)		Groundwater Elevation (feet NAVD)		Groundwater Depth from TOC (feet)	Groundwater Elevation (feet NAVD)
	Y/Northing	X/Easting		High Tide	Low Tide	High Tide	Low Tide		
EHS-GW-01	295774.1416	1482530.992	50.95	43.3	43.3	7.65	7.65	41.45	9.5
EHS-GW-02	295722.9404	1482508.374	50.65	43.07	43.6	7.58	7.05	41.22	9.43
EHS-GW-03	295745.4214	1482561.232	51.49	43.9	43.9	7.59	7.59	42.04	9.45
EHS-GW-04	295590.322	1482432.316	50.57	42.98	43	7.59	7.57	41.14	9.43
EHS-GW-05	295512.8214	1482581.952	49.05	41.55	41.55	7.50	7.50	39.72	9.33

Notes:

NAVD - North American Vertical Datum
TOC - Top of Casing

Table 4
Final Groundwater Parameters
East Hampton Hortonsphere Site
East Hampton, New York

Sample Location/Well ID	Date	Depth to water (ft) (at time of sampling)	Flow Rate (mL/min)	Parameters								
				Temperature (C)	pH (su)	Conductivity (mS/cm)	Turbidity (NTU)	Dissolved Oxygen (mg/L)	ORP (mV)	Odor	Color	Sheen
EHS-GW-01	11/29/2007	45.1	Samples collected by bailer - resampled on 2/18/2009 (see last entry below)							none	turbid	none
EHS-GW-02	12/3/2007	42.93	550	14.08	6.07	0.193	20.5	9.97	97	none	clear	none
EHS-GW-03	11/16/2007	44.95	500	12.61	4.94	0.373	122.0	10.31	124	none	clear	none
EHS-GW-04	12/3/2007	42.83	550	14.87	6.15	0.232	33.9	7.48	118	none	clear	none
EHS-GW-05	12/3/2007	41.42	550	15.54	5.94	0.233	40.8	7.37	112	none	clear	none
EHS-GW-01	2/18/2008	42.3	750	13.20	5.55	0.254	13.2	9.93	207	none	clear	none

Notes:
ml/min = milliliters per minute
NTU = nephelometric turbidity units
C = Celsius
su = standard units
mg/L = milligrams per liter
mV = millivolts
mS/cm = milliSiemens per centimeter
ft = feet

Table 5
Surface Soil Analytical Results for Detected Compounds
East Hampton Hortonsphere
East Hampton, New York

Sample Location: Sample Date:	NYSDEC 375 RES	NYSDEC 375 IND	EHS-SS-01 11/14/2007	EHS-SS-02 11/14/2007	EHS-SS-03 11/14/2007	Duplicate of EHS-SS-03 11/14/07	EHS-SS-04 11/14/2007	EHS-SS-05 11/14/2007	EHS-SS-06 11/14/2007	EHS-SS-07 2/18/2009
BTEX (mg/kg)										
Total BTEX	NE	NE	ND	ND	ND	ND	ND	ND	ND	ND
Other VOCs (mg/kg)										
Total VOCs	NE	NE	ND	ND	ND	ND	ND	ND	ND	ND
PAHs (mg/kg)										
Acenaphthene	100	1,000	0.4 U	0.41 U	**3.3 J**	0.47 UJ	0.4 U	0.39 U	0.36 U	0.32 U
Anthracene	100	1,000	**0.067 J**	0.41 U	**6.2 J**	0.47 UJ	**0.089 J**	0.39 U	0.36 U	0.32 U
Benz[a]anthracene	1	11	**0.3 J**	**0.28 J**	**11 J**	**0.15 J**	**0.29 J**	**0.19 J**	**0.1 J**	**0.18 J**
Benzo[a]pyrene	1	1.1	**0.29 J**	**0.29 J**	**8.7 J**	**0.16 J**	**0.23 J**	**0.15 J**	**0.11 J**	**0.21 J**
Benzo[b]fluoranthene	1	11	**0.38**	**0.37**	**9.3 J**	**0.23 J**	**0.34**	**0.22 J**	**0.16 J**	**0.24 J**
Benzo[g,h,i]perylene	100	1,000	**0.29 J**	**0.17 J**	**4.2 J**	**0.15 J**	**0.13 J**	**0.18 J**	**0.092 J**	**0.41**
Benzo[k]fluoranthene	1	110	**0.13 J**	**0.14 J**	**3.6 J**	**0.079 J**	**0.11 J**	**0.076 J**	**0.062 J**	**0.084 J**
Chrysene	1	110	**0.45**	**0.35**	**11 J**	**0.25 J**	**0.44**	**0.27 J**	**0.12 J**	**0.26 J**
Dibenz[a,h]anthracene	0.33	1.1	**0.076 J**	0.41 U	**1.2 J**	0.47 UJ	0.4 U	0.39 U	0.36 U	0.32 U
Fluoranthene	100	1,000	**0.56**	**0.45**	**25 J**	**0.34 J**	**0.5**	**0.31 J**	**0.16 J**	**0.3 J**
Fluorene	100	1,000	0.4 U	0.41 U	**2.3 J**	0.47 UJ	0.4 U	0.39 U	0.36 U	0.32 U
Indeno[1,2,3-cd]pyrene	0.5	11	**0.29 J**	**0.19 J**	**5 J**	**0.17 J**	**0.15 J**	**0.17 J**	**0.098 J**	**0.4**
Methylnaphthalene, 2-	NE	NE	0.4 U	0.41 U	**0.94 J**	0.47 UJ	0.4 U	0.39 U	0.36 U	0.32 U
Naphthalene	100	1,000	0.4 U	0.41 U	**1.2 J**	0.47 UJ	0.4 U	0.39 U	0.36 U	0.32 U
Phenanthrene	100	1,000	**0.4**	**0.21 J**	**26 J**	**0.17 J**	**0.35**	**0.32**	**0.076 J**	**0.22 J**
Pyrene	100	1,000	**0.63**	**0.4**	**21 J**	**0.33 J**	**0.5**	**0.39**	**0.18 J**	**0.3 J**
Total PAHs	NE	NE	**3.863**	**2.85**	**139.94**	**2.029**	**3.129**	**1.886**	**1.158**	**2.604**
Other SVOCs (mg/kg)										
Bis(2-ethylhexyl)phthalate	NE	NE	0.4 U	**0.056 J**	**1.8 J**	**0.58 J**	**0.16 J**	0.39 U	0.36 U	0.32 U
Butyl benzyl phthalate	NE	NE	0.4 U	0.41 U	4.1 U	0.47 U	**0.081 J**	0.39 U	0.36 U	0.32 U
Carbazole	NE	NE	0.4 U	0.41 U	**2.3 J**	0.47 UJ	0.4 U	0.39 U	0.36 U	0.32 U
Dibenzofuran	14	1,000	0.4 U	0.41 U	**1.7 J**	0.47 UJ	0.4 U	0.39 U	0.36 U	0.32 U
Methylphenol, 4-	100	1,000	0.4 U	0.41 U	4.1 UJ	**0.091 J**	0.4 U	0.39 U	0.36 U	0.32 U
Total SVOCs	NE	NE	**3.863**	**2.906**	**145.74**	**2.7**	**3.37**	**1.886**	**1.158**	**2.604**
PCBs (mg/kg)										
Aroclor 1254	NE	NE	0.021 U	0.021 U	0.021 UJ	0.024 U	**0.045 J**	0.021 U	0.019 U	0.021 U
Aroclor 1260	NE	NE	0.021 U	**0.021**	**0.021 J**	0.024 U	**0.027 J**	0.021 U	0.019 UJ	**0.18**
PCBs, Total	1	25	ND	**0.021**	**0.021**	ND	**0.072**	ND	ND	**0.18**

Table 5
Surface Soil Analytical Results for Detected Compounds
East Hampton Hortonsphere
East Hampton, New York

Sample Location: / Sample Date:	NYSDEC 375 RES	NYSDEC 375 IND	EHS-SS-01 11/14/2007	EHS-SS-02 11/14/2007	EHS-SS-03 11/14/2007	Duplicate of EHS-SS-03 11/14/07	EHS-SS-04 11/14/2007	EHS-SS-05 11/14/2007	EHS-SS-06 11/14/2007	EHS-SS-07 2/18/2009
Pesticides (mg/kg)										
Alpha-BHC	0.097	6.8	0.01 U	0.01 U	**0.0019 J**	0.012 U	0.002 U	0.0021 U	0.0093 U	0.0021 UJ
DDD, 4,4-	2.6	180	**0.0025 J**	**0.006 J**	**0.02 J**	**0.0046 J**	0.0039 UJ	0.004 UJ	0.018 UJ	0.0041 UJ
DDE, 4,4-	1.7	120	**0.085**	**0.046 J**	**0.046 J**	**0.085 J**	**0.039**	**0.0095**	**0.078**	**0.0094 J**
DDT, 4,4-	1.8	94	**0.086 J**	**0.13 J**	**0.079 J**	**0.086 J**	**0.075 J**	**0.025 J**	**0.11 J**	**0.016 J**
Delta-BHC	100	1,000	0.01 U	0.01 U	0.0043 U	0.012 U	**0.00045 J**	0.0021 U	0.0093 U	0.0021 UJ
Dieldrin	0.039	2.8	0.02 U	0.02 U	0.0083 U	0.024 U	**0.008 J**	0.004 U	**0.0062 J**	0.0041 UJ
Endosulfan I	4.8	920	0.01 U	0.01 U	0.0043 U	0.012 U	**0.00043 J**	0.0021 U	0.0093 U	0.0021 UJ
Endosulfan sulfate	4.8	920	0.0038 U	0.02 U	0.0083 U	**0.0065 J**	**0.0022 J**	**0.003 J**	0.018 U	0.0041 UJ
Endrin aldehyde	NE	NE	0.02 U	**0.0054 J**	**0.015 JN**	0.024 U	0.0039 U	0.004 U	0.018 U	0.0041 U
Heptachlor epoxide	NE	NE	**0.0013 J**	0.01 U	0.0043 U	0.012 U	**0.0012 J**	**0.00081 J**	0.0093 U	0.0021 UJ
Total Pesticides	NE	NE	**0.1748**	**0.1874**	**0.1619**	**0.1821**	**0.12628**	**0.03831**	**0.1942**	**0.0254**
Metals (mg/kg)										
Aluminum	NE	NE	**8240**	**4510**	**22400 J**	**8850 J**	**20400**	**9670**	**6290**	**7850**
Arsenic	16	16	**19.4**	**4.5**	**29.1**	**22.4**	**38.1**	**205**	**12.9**	**7.1**
Barium	350	10,000	**30.5 J**	**29.1 J**	**277 J**	**31 J**	**324**	**101**	**22.4 J**	**30.2**
Beryllium	14	2700	2.8 U	2.8 U	**1.7 J**	3.1 U	**2 J**	**2.4 J**	2.3 U	**0.49 J**
Calcium	NE	NE	**1670**	**2180**	**5450 J**	**1680 J**	**10200**	**5790**	**5730**	**868**
Chromium	22*	800*	**15.2**	**9.9**	**90.6 J**	**12 J**	**114**	**29.1**	**9.3**	**10.1**
Cobalt	NE	NE	**4 J**	**2.4 J**	**9.3 J**	**4.3 J**	**10.6 J**	**7.8 J**	**2.2 J**	**4.9**
Copper	270	10,000	**54.8**	**17.9**	**34.6**	**57.6**	**45.9**	**101**	**24.3**	**136**
Iron	NE	NE	**12000**	**7560**	**40600 J**	**12900 J**	**44400**	**21900**	**7880**	**11100**
Lead	400	3900	**40**	**36**	**928 J**	**43.2 J**	**1140**	**1220**	**103**	**36.6**
Magnesium	NE	NE	**1560 J**	**1030 J**	**1620 J**	**1610 J**	**3730 J**	**2500 J**	**3450**	**1470**
Manganese	2,000	10,000	**114**	**104**	**143**	**119**	**96.3**	**150**	**65.1**	**119**
Mercury	0.81	5.7	**0.11**	**0.041**	**0.13 J**	**0.046 J**	**0.13**	**0.39**	**0.12**	**0.051**
Nickel	140	10,000	**6.8 J**	**4.8 J**	**29.3 J**	**6.8 J**	**31.8**	**20.2**	**4.8 J**	**7.7**
Potassium	NE	NE	**434 J**	**396 J**	**1620 J**	**431 J**	**1720**	**631 J**	**252 J**	**322**
Selenium	36	6800	14.1 U	13.8 U	**3.7 J**	15.6 U	**4.6 J**	**15.8**	11.4 U	12.3 U
Sodium	NE	NE	**175 J**	**80.9 J**	**507 J**	**193 J**	**588 J**	**229 J**	**75.4 J**	**154**
Vanadium	NE	NE	**23.9**	**15.5**	**122 J**	**23.6 J**	**163**	**57.9**	**14.8**	**19.1**
Zinc	2,200	10,000	**50.8**	**56.9**	**166 J**	**46.4 J**	**81.9**	**190**	**29.8**	**32.7**
Other (mg/kg)										
Acid Soluble Sulfide	NE	NE	38.1 UJ	38.1 UJ	**25.5 J**	50.1 UJ	**20.4 J**	**10.9 J**	32.8 U	17.5 U
Solids, Percent	NE	NE	**78.8**	**78.7**	**78.4**	**59.9**	**79.9**	**63.3**	**91.6**	**81.7**
Sulfate	NE	NE	12.3 U	**39.8**	14.7 U	14.6 U	12.1 U	**54.1**	10.9 U	12.4 U

Table 5
Surface Soil Analytical Results for Detected Compounds
East Hampton Hortonsphere
East Hampton, New York

Sample Location: Sample Date:	NYSDEC 375 RES	NYSDEC 375 IND	EHS-SS-08 2/18/2009	EHS-SS-09 2/18/2009	Duplicate of EHS-SS-09 2/18/2009	EHS-SS-10 2/18/2009
BTEX (mg/kg)						
Total BTEX	NE	NE	ND	ND	ND	ND
Other VOCs (mg/kg)						
Total VOCs	NE	NE	ND	ND	ND	ND
PAHs (mg/kg)						
Acenaphthene	100	1,000	0.35 U	0.32 U	0.32U	0.33 U
Anthracene	100	1,000	0.35 U	**0.083 J**	0.32 U	0.33 U
Benz[a]anthracene	1	11	**0.097 J**	**0.32 J**	**0.17 J**	**0.081 J**
Benzo[a]pyrene	1	1.1	**0.09 J**	**0.32 J**	**0.2 J**	**0.093 J**
Benzo[b]fluoranthene	1	11	**0.15 J**	**0.33**	**0.22 J**	**0.11 J**
Benzo[g,h,i]perylene	100	1,000	**0.41**	**0.49**	**0.38**	**0.39**
Benzo[k]fluoranthene	1	110	0.35 U	**0.12 J**	**0.084 J**	0.33 U
Chrysene	1	110	**0.19 J**	**0.35**	**0.21 J**	**0.1 J**
Dibenz[a,h]anthracene	0.33	1.1	0.35 U	**0.062 J**	0.32 U	0.33 U
Fluoranthene	100	1,000	**0.14 J**	**0.56**	**0.3 J**	**0.16 J**
Fluorene	100	1,000	0.35 U	0.32 U	0.32 U	0.33 U
Indeno[1,2,3-cd]pyrene	0.5	11	**0.39**	**0.49**	**0.38**	**0.37**
Methylnaphthalene, 2-	NE	NE	0.35 U	0.32 U	0.32 U	0.33 U
Naphthalene	100	1,000	0.35 U	0.32 U	0.32 U	0.33 U
Phenanthrene	100	1,000	**0.12 J**	**0.48**	**0.19 J**	**0.13 J**
Pyrene	100	1,000	**0.17 J**	**0.56**	**0.26**	**0.19 J**
Total PAHs	NE	NE	**1.757**	**4.165**	**2.394**	**1.624**
Other SVOCs (mg/kg)						
Bis(2-ethylhexyl)phthalate	NE	NE	0.35 U	0.32 U	0.32 U	0.33 U
Butyl benzyl phthalate	NE	NE	0.35 U	0.32 U	0.32 U	0.33 U
Carbazole	NE	NE	0.35 U	0.32 U	0.32 U	0.33 U
Dibenzofuran	14	1,000	0.35 U	0.32 U	0.32 U	033 U
Methylphenol, 4-	100	1,000	0.32 U	0.35 U	0.32 U	0.33 U
Total SVOCs	NE	NE	**1.757**	**4.165**	**2.394**	**1.624**
PCBs (mg/kg)						
Aroclor 1254	NE	NE	0.021 U	0.021 U	0.021 U	0.021 U
Aroclor 1260	NE	NE	0.022 U	**0.013 J**	**0.019 J**	**0.037**
PCBs, Total	1	25	ND	**0.013**	**0.019**	**0.037**

Table 5
Surface Soil Analytical Results for Detected Compounds
East Hampton Hortonsphere
East Hampton, New York

Sample Location: / Sample Date:	NYSDEC 375 RES	NYSDEC 375 IND	EHS-SS-08 2/18/2009	EHS-SS-09 2/18/2009	Duplicate of EHS-SS-09 2/18/2009	EHS-SS-10 2/18/2009
Pesticides (mg/kg)						
Alpha-BHC	0.097	6.8	0.0043 UJ	0.002 UJ	0.002 UJ	0.0021UJ
DDD, 4,4-	2.6	180	**0.0053 J**	0.0039 UJ	0.0039 UJ	0.004 UJ
DDE, 4,4-	1.7	120	**0.13 J**	**0.018 J**	**0.033 J**	**0.049 J**
DDT, 4,4-	1.8	94	**0.071**	**0.015 J**	**0.031 J**	**0.05**
Delta-BHC	100	1,000	0.0021 UJ	0.002 UJ	0.002 UJ	0.0021 UJ
Dieldrin	0.039	2.8	0.0084 UJ	0.0039 UJ	**0.00093 J**	0.004 UJ
Endosulfan I	4.8	920	0.0043 UJ	0.002 UJ	0.002 UJ	0.0021 UJ
Endosulfan sulfate	4.8	920	0.0084 UJ	0.0039 UJ	**0.0021 J**	0.004 UJ
Endrin aldehyde	NE	NE	0.0084 U	0.0039 U	0.0039 U	0.004 U
Heptachlor epoxide	NE	NE	0.043 UJ	0.002 UJ	**0.0007 J**	0.0021 UJ
Total Pesticides	NE	NE	**0.2063**	**0.033**	**0.06703**	**0.099**
Metals (mg/kg)						
Aluminum	NE	NE	**12100**	**7580**	**6980**	**9700**
Arsenic	16	16	**67.8**	**12.3**	**8.7**	**14**
Barium	350	10,000	**83**	**22.8**	**20.8**	**31.6**
Beryllium	14	2700	**1.2 J**	**0.38 J**	**0.43 J**	**0.5 J**
Calcium	NE	NE	**2250**	**873**	**721**	**998**
Chromium	22*	800*	**18.8**	**9.7**	**8.9**	**10.3**
Cobalt	NE	NE	**4.4**	**3.1**	**3.1**	**2.1 J**
Copper	270	10,000	**89.5**	**24**	**20.2**	**40.8**
Iron	NE	NE	**19900**	**10500**	**13100**	**10300**
Lead	400	3900	**193**	**25.4**	**22.6**	**82.2**
Magnesium	NE	NE	**1220**	**1490**	**1380**	**1100**
Manganese	2,000	10,000	**125**	**114**	**124**	**96.6**
Mercury	0.81	5.7	**0.27**	**0.039**	**0.068**	**0.063**
Nickel	140	10,000	**12.2**	**6.2**	**6**	**5.9**
Potassium	NE	NE	**340**	**356**	**331**	**245**
Selenium	36	6800	**6.7 J**	**11.9**	**13.5**	11.8 U
Sodium	NE	NE	**114 J**	**262**	**207**	235 U
Vanadium	NE	NE	**34.5**	**17.1**	**16.7**	**17.7**
Zinc	2,200	10,000	**117**	**31.9**	**26.7**	**82.9**
Other (mg/kg)						
Acid Soluble Sulfide	NE	NE	28.2 U	18 U	16.7 U	17.3 U
Solids, Percent	NE	NE	**76.4**	**82.5**	**83.2**	**82.1**
Sulfate	NE	NE	13.1 U	12.1 U	12 U	12.2 U

Table 5
Surface Soil Analytical Results for Detected Compounds
East Hampton Hortonsphere
East Hampton, New York

Notes:

Table presents only detected compounds.

NYSDEC 375 RES – Chapter IV, Subpart 375-6: Remedial Program Residential SCOs
NYSDEC 375 IND – Chapter IV, Subpart 375-6: Remedial Program Industrial Soil Cleanup Objectives (SCOs)

NE - not established; in the absence of Residential SCOs, results were considered against relevant SCGs
ND - not detected; total concentration is listed as ND because no compounds were detected in the group

Laboratory and Validation Data Qualifiers:

J - estimated value
JN - analyte is presumptively present at an approximated quantity
U - indicates not detected to the reporting limit for organic analysis and the method detection limit for inorganic analysis
UJ - indicates not detected to the reporting limit for organic analysis and the method detection limit for inorganic analysis, the limit shown is estimated

Bolding indicates a detected result value
Yellow shading and bolding indicates that the detected result value exceeds established NYSDEC 375 RES and NYSDEC 375 IND
Gray shading and bolding indicates that the detected result value exceeds established NYSDEC 375 RES
mg/kg - milligrams/kilogram or parts per million (ppm)
BTEX - benzene, toluene, ethylbenzene, and xylene
VOCs - volatile organic compounds
PAHs - polycyclic aromatic hydrocarbons
SVOCs - semivolatile organic compounds
PCBs - Polychlorinated Biphenyls
No criteria for the individual Aroclor compounds have been established, however the criterion for Total PCBs is 25 mg/kg and 1 mg/kg.
* - indicates the listed SCO is for hexavalent chromium. An SCO for total chromium has not been established.

Table 6
Subsurface Soil Analytical Results for Detected Compounds
East Hampton Hortonsphere
East Hampton, New York

Sample Location: Sample Depth (ft. bgs.): Sample Date:	NYSDEC 375 RES	NYSDEC 375 IND	EHS-GP-01 (4-5) 11/13/2007	EHS-GP-01 (44-45) 11/13/2007	EHS-GP-02 (4-5) 11/13/2007	Duplicate of EHS-GP-02 (4-5) 11/13/2007	EHS-GP-02 (43-45) 11/15/2007	EHS-GP-03 (4-5) 11/13/2007	EHS-GP-03 (44-45) 11/14/2007	EHS-GP-04 (4-5) 11/13/2007	EHS-GP-04 (44-45) 11/16/2007	EHS-GP-05 (4-5) 11/16/2007	EHS-GP-05 (44-45) 11/16/2007
BTEX (mg/kg)													
Toluene	100	1,000	**0.0017 J**	**0.0011 J**	0.0057 U	**0.00082 J**	0.0053 U	0.0072 U	0.0052 U	0.0073 U	0.0054 U	0.007 U	0.0057 U
Total BTEX	NE	NE	**0.0017**	**0.0011**	ND	**0.00082**	ND	ND	ND	ND	ND	ND	ND
Other VOCs (mg/kg)													
Total VOCs	NE	NE	**0.0017**	**0.0011**	ND	**0.00082**	ND	ND	ND	ND	ND	ND	ND
PAHs (mg/kg)													
Benz[a]anthracene	1	11	0.44 U	0.35 U	0.38 U	0.43 U	0.34 U	**0.13 J**	0.33 U	0.48 U	0.35 U	0.46 U	0.37 U
Benzo[a]pyrene	1	1.1	0.44 U	0.35 U	0.38 U	0.43 U	0.34 U	**0.11 J**	0.33 U	0.48 U	0.35 U	0.46 U	0.37 U
Benzo[b]fluoranthene	1	11	0.44 U	0.35 U	0.38 U	0.43 U	0.34 U	**0.17 J**	0.33 U	0.48 U	0.35 U	0.46 U	0.37 U
Chrysene	1	110	0.44 U	0.35 U	0.38 U	0.43 U	0.34 U	**0.14 J**	0.33 U	0.48 U	0.35 U	0.46 U	0.37 U
Fluoranthene	100	1,000	0.44 U	0.35 U	0.38 U	0.43 U	0.34 U	**0.15 J**	0.33 U	0.48 U	0.35 U	0.46 U	0.37 U
Pyrene	100	1,000	0.44 U	0.35 U	0.38 U	0.43 U	0.34 U	**0.16 J**	0.33 U	0.48 U	0.35 U	0.46 U	0.37 U
Total PAHs	NE	NE	ND	ND	ND	ND	ND	**0.55**	ND	ND	ND	ND	ND
Other SVOCs (mg/kg)													
Bis(2-ethylhexyl)phthalate	NE	NE	0.44 U	0.35 U	0.38 U	0.43 U	0.34 U	0.47 U	0.33 U	**0.063 J**	0.35 U	0.46 U	0.37 U
Total SVOCs	NE	NE	ND	ND	ND	ND	ND	**0.86**	ND	**0.063**	ND	ND	ND
PCBs (mg/kg)													
Total PCBs	1	25	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Pesticides (mg/kg)													
DDE, 4,4-	1.8	120	0.0043 U	0.0035 U	0.0038 U	0.0044 U	0.0035 U	**0.0019 J**	0.0034 U	0.0047 U	0.0035 U	0.0046 U	0.0037 U
DDT, 4,4-	1.7	94	**0.00056 J**	0.0035 UJ	0.0038 UJ	**0.00087 J**	0.0035 U	**0.0041 J**	0.0034 UJ	0.0047 UJ	0.0035 U	0.0046 U	0.0037 U
Endrin aldehyde	NE	NE	0.0043 U	0.0035 U	0.0038 U	0.0044 U	0.0035 U	**0.0015 J**	0.0034 U	0.0047 U	0.0035 U	0.0046 U	0.0037 U
Heptachlor epoxide	NE	NE	0.0022 U	**0.00064 J**	0.0019 U	0.0023 U	0.0018 U	0.0024 U	**0.00052 J**	0.0024 U	0.0018 U	0.0024 U	0.0019 U
Total Pesticides	NE	NE	**0.00056**	**0.00064**	ND	**0.00087**	ND	**0.0075**	**0.00052**	ND	ND	ND	ND
Herbicides (mg/kg)													
T,2,4,5-	NE	NE	**0.016**	0.023 U	0.023 U	**0.022**	0.025 U	0.028 U	0.021 U	0.028 U	0.021 U	0.026 U	0.021 U
Metals (mg/kg)													
Aluminum	NE	NE	**10300**	**425**	**4420 J**	**14800 J**	**420**	**11000**	**466**	**14300**	**756**	**11600**	**596**
Arsenic	16	16	**5.1**	8.4 U	**1.9 J**	**2.9 J**	7.5 U	**3.2 J**	6.8 U	**3 J**	9 U	**5.3**	9.9 U
Barium	350	10,000	**37.3 J**	**2.6 J**	**16.8 J**	**21.5 J**	**3.5 J**	**20.8 J**	**4 J**	**21.1 J**	**5.8 J**	**23.5 J**	**2.7 J**
Beryllium	14	2700	**0.85 J**	2.1 U	2.5 U	3 U	1.9 U	2.5 U	1.7 U	2.6 U	2.2 U	**0.65 J**	2.5 U
Calcium	NE	NE	**486 J**	211 U	**247 J**	**714 J**	189 U	**456 J**	**280 J**	**665 J**	225 U	**707 J**	247 U
Chromium	22*	800*	**13.4**	**1.6 J**	**6.8 J**	**17.7 J**	**2.4**	**14.4**	**1.2 J**	**17.2**	**2.1 J**	**15.9**	**1.5 J**
Cobalt	NE	NE	**6.5 J**	**0.61 J**	**5.1 J**	**5.4 J**	1.9 U	**5 J**	1.7 U	**5 J**	**0.64 J**	**6.2 J**	2.5 U
Copper	270	10,000	**10.7**	**0.55 J**	**5 J**	**5.5 J**	**0.88 J**	**9.6**	**0.81 J**	**5.2 J**	**1.2 J**	**10.2**	**0.86 J**
Iron	NE	NE	**18200**	**1170**	**9260**	**13300**	**1240**	**12000**	**1110**	**12900**	**1880**	**18100**	**1310**
Lead	400	3900	**11.7**	5.3 U	**6.1**	**7.6**	4.7 U	**11.3**	**0.76 J**	**7.4**	5.6 U	**6.7**	6.2 U
Magnesium	NE	NE	**2230 J**	**132 J**	**923 J**	**2460 J**	**102 J**	**2220 J**	**126 J**	**2350 J**	**239 J**	**2700 J**	**139 J**
Manganese	2,000	10,000	**195**	**14.2**	**150**	**115**	**12.1**	**96.7**	**17**	**96.4**	**25.3**	**190**	**22.6**
Mercury	0.81	5.7	0.061 U	0.053 U	0.053 U	**0.028**	0.048 U	**0.031**	0.047 U	**0.027**	0.051 U	0.066 U	0.054 U
Nickel	140	10,000	**8.9 J**	**0.53 J**	**4.4 J**	**10.7 J**	**0.76 J**	**9.3 J**	**0.54 J**	**10.4 J**	**1.4 J**	**11**	**0.9 J**
Potassium	NE	NE	**667 J**	211 U	**325 J**	**391 J**	189 U	**395 J**	171 U	**379 J**	225 U	**654 J**	247 U
Sodium	NE	NE	**72.3 J**	**25.3 J**	**31.4 J**	**54.7 J**	189 U	**51.1 J**	171 U	**54.3 J**	225 U	**110 J**	247 U
Vanadium	NE	NE	**26.2**	**1.7 J**	**11 J**	**25.3 J**	**1.6 J**	**21.4**	**1.6 J**	**24.7**	**3 J**	**26.3**	**1.7 J**
Zinc	2,200	10,000	**25.1**	21.1 U	**12.9 J**	**28.5**	18.9 U	**40.9**	17.1 U	**26.8**	22.5 U	**26.6**	24.7 U
Other (mg/kg)													
Acid Soluble Sulfide	NE	NE	42.2 UJ	34.5 UJ	**10.2 J**	44.3 UJ	**20.1 J**	**23.4 J**	31.5 UJ	**8.8 J**	32.0 UJ	38.6 UJ	32.2 UJ
Solids, Percent	NE	NE	**71.1**	**86.9**	**87.4**	**67.7**	**81.1**	**72.2**	**95.2**	**70.8**	**93.7**	**77.7**	**93.1**
Sulfate	NE	NE	20.5 U	**10.7**	11.5 U	17.8 U	10.6 U	14.2 U	10.3 U	19.9 U	10.7 U	**38.1**	11.4 U

Table 6
Subsurface Soil Analytical Results for Detected Compounds
East Hampton Hortonsphere
East Hampton, New York

Notes:

Table presents only detected compounds.

NYSDEC 375 RES – Chapter IV, Subpart 375-6: Remedial Program Residential SCOs
NYSDEC 375 IND – Chapter IV, Subpart 375-6: Remedial Program Industrial Soil Cleanup Objectives (SCOs)

NE - not established; in the absence of Residential SCOs, results were considered against relevant SCGs
ND - not detected; total concentration is listed as ND because no compounds were detected in the group

Laboratory and Validation Data Qualifiers:

J - estimated value
U - indicates not detected to the reporting limit for organic analysis and the method detection limit for inorganic analysis

Bolding indicates a detected result value
mg/kg - milligrams/kilogram or parts per million (ppm)
ft bgs - feet below ground surface
BTEX - benzene, toluene, ethylbenzene, and xylene
VOCs - volatile organic compounds
PAHs - polycyclic aromatic hydrocarbons
SVOCs - semivolatile organic compounds
PCBs - Polychlorinated Biphenyls
No criteria for the individual Aroclor compounds have been established; however, the criterion for Total PCBs is 25 mg/kg and 1 mg/kg.
* - indicates the listed SCO is for hexavalent chromium. An SCO for total chromium has not been established.

Table 7
Groundwater Analytical Results for Detected Compounds
East Hampton Hortonsphere
East Hampton, New York

Sample Location: Sample Date:	NYSDEC SCG	EHS-GW-01 11/29/2007	EHS-GW-01 02/18/09	EHS-GW-02 12/3/2007	Duplicate of EHS-GW-02 12/03/07	EHS-GW-03 11/16/2007	EHS-GW-04 12/3/2007	EHS-GW-05 12/3/2007
BTEX (ug/l)								
Benzene	1	5 U	NS	**2.8**	**0.79**	5 U	5 U	5 U
Toluene	5	5 U	NS	**0.23 J**	**0.11 J**	5 U	5 U	5 U
Total BTEX	NE	ND	NS	**3.03**	**0.9**	ND	ND	ND
Other VOCs (ug/l)								
Tetrachloroethene	5	5 U	NS	5 U	5 U	5 U	**0.3 J**	5 U
Total VOCs	NE	ND	NS	**3.03**	**0.9**	ND	**0.3**	ND
PAHs (ug/l)								
Acenaphthene	20	10 U	NS	10 U	10 U	R	10 U	**0.44 J**
Acenaphthylene	NE	10 U	NS	10 U	10 U	R	10 U	**0.39 J**
Anthracene	50	10 U	NS	10 U	10 U	R	10 U	**0.43 J**
Benz[a]anthracene	0.002	10 U	NS	10 U	10 U	R	10 U	**0.45 J**
Benzo[k]fluoranthene	0.002	10 U	NS	10 U	10 U	R	10 U	**0.3 J**
Chrysene	0.002	10 U	NS	10 U	10 U	R	10 U	**0.41 J**
Fluoranthene	50	10 U	NS	10 U	10 U	R	10 U	**1.4 J**
Fluorene	50	10 U	NS	10 U	10 U	R	10 U	**0.5 J**
Methylnaphthalene,2-	NE	10 U	NS	10 U	10 U	R	10 U	**0.81 J**
Phenanthrene	50	10 U	NS	10 U	10 U	R	10 U	**0.71 J**
Pyrene	50	10 U	NS	10 U	10 U	R	10 U	**0.82 J**
Total PAHs	NE	ND	NS	ND	ND	ND	ND	**6.66**
Other SVOCs (ug/l)								
Bromophenyl phenyl ether,4-	NE	10 U	NS	10 U	10 U	R	10 U	**0.39 J**
Dichlorophenol,2,4-	5	10 U	NS	10 U	10 U	R	10 U	**0.32 J**
Diethyl phthalate	50	10 U	NS	10 U	10 U	R	10 U	**0.52 J**
Methylphenol, 4-	1	10 U	NS	10 U	10 U	R	10 U	**0.54 J**
Nitrosodiphenylamine, N-	NE	10 U	NS	10 U	10 U	R	10 U	**0.55 J**
Total SVOCs	NE	ND	NS	ND	ND	ND	ND	**8.98**

Table 7
Groundwater Analytical Results for Detected Compounds
East Hampton Hortonsphere
East Hampton, New York

Sample Location: Sample Date:	NYSDEC SCG	EHS-GW-01 11/29/2007	EHS-GW-01 02/18/09	EHS-GW-02 12/3/2007	Duplicate of EHS-GW-02 12/03/07	EHS-GW-03 11/16/2007	EHS-GW-04 12/3/2007	EHS-GW-05 12/3/2007
PCBs (ug/l)								
Aroclor 1260	NE	0.5 U	NS	**0.16 J**	0.5 U	0.5 U	0.5 U	0.5 U
PCBs, Total	NE	ND	NS	**0.16**	ND	ND	ND	ND
Pesticides (ug/l)								
Chlordane, trans-	NE	0.05 U	NS	0.05 U	0.05 U	0.05 U	0.05 U	**0.019 J**
DDD,4,4-	0.3	0.15 U	NS	**0.03 J**	0.15 U	0.15 U	0.15 U	0.15 U
Dieldrin	0.004	0.1 U	NS	**0.012 J**	0.1 U	0.1 U	0.1 U	0.10 U
Total Pesticides	NE	ND	NS	**0.042**	ND	ND	ND	**0.019**
Total Metals (ug/l)								
Aluminum	NE	**37900**	500 U	**160 J**	**200 J**	**89**	**93 J**	**280**
Arsenic	25	**71**	20 U	25 U	25 U	25 U	25 U	25 U
Barium	1000	**330**	**43**	**58 J**	**60 J**	**48 J**	**60 J**	**70 J**
Beryllium	3	**2.5 J**	10 U	5 U	5 U	5 U	5 U	5 U
Calcium	NE	**11800**	**9700**	**15300**	**15700**	**11100**	**21300**	**31000**
Chromium	50	**300**	**10**	**8.7 J**	**11**	**3.7**	**6.9 J**	**9.7 J**
Cobalt	NE	**25 J**	**10 U**	10 U	10 U	**2.5**	**3.6 J**	10 U
Copper	200	**150**	**2.8 J**	10 U	10 U	10 U	10 U	10 U
Iron	300	**128000**	**180 J**	**410**	**530**	**560**	**350**	**460**
Lead	25	**62**	30 U	10 U	10 U	10 U	10 U	10 U
Magnesium	35000	**7600**	**2300**	**3600 J**	**3600 J**	**2300 J**	**3100 J**	**5000**
Manganese	300	**3300**	**6.2 J**	**520**	**540**	**790**	**990**	**970**
Nickel	100	**57**	**5.5 J**	**9.5 J**	**13**	**6.1**	**9.8 J**	**11**
Potassium	NE	**5100**	**1800**	**1400 J**	**1400 J**	1800 J	**2600 J**	**3100 J**
Sodium	20000	**21400**	**24000**	**22800**	**23800**	**32700**	**31000**	**21600**
Thallium	0.5	**12 J**	30 U	40 U	40 U	40 U	40 U	40 U
Vanadium	NE	**110**	10 U	5 U	5 U	5 U	5 U	5 U
Zinc	2000	**520**	50 U	**19 J**	**22 J**	**22**	**15 J**	**18 J**
Other (ug/l)								
Sulfate	250000	**13000**	NS	**11100**	**11000**	**19000**	**17900**	**19700**

Table 7
Groundwater Analytical Results for Detected Compounds
East Hampton Hortonsphere
East Hampton, New York

Notes:

Table presents only detected compounds.

NYSDEC SCG - New York State Department of Environmental Conservation Standards, Criteria, and Guidelines

NE - not established

ND - not detected; total concentration is listed as ND because no compounds were detected in the group

NS - not sampled

Laboratory and Validation Data Qualifiers:

J - estimated value
U - indicates not detected to the reporting limit for organic analysis and the method detection limit for inorganic analysis
R - Rejected
Shading/bolding indicates an exceedance of established New York State ambient groundwater quality standards
Bold indicates detected result
ug/L - micrograms per liter or parts per billion (ppb)
BTEX - benzene, toluene, ethylbenzene, and xylene
VOCs - volatile organic compounds
PAHs - polycyclic aromatic hydrocarbons
SVOCs - semivolatile organic compounds
PCBs - Polychlorinated Biphenyls

Table 8
Soil Vapor Analytical Results for Detected Compounds
East Hampton Hortonsphere Site
East Hampton, New York

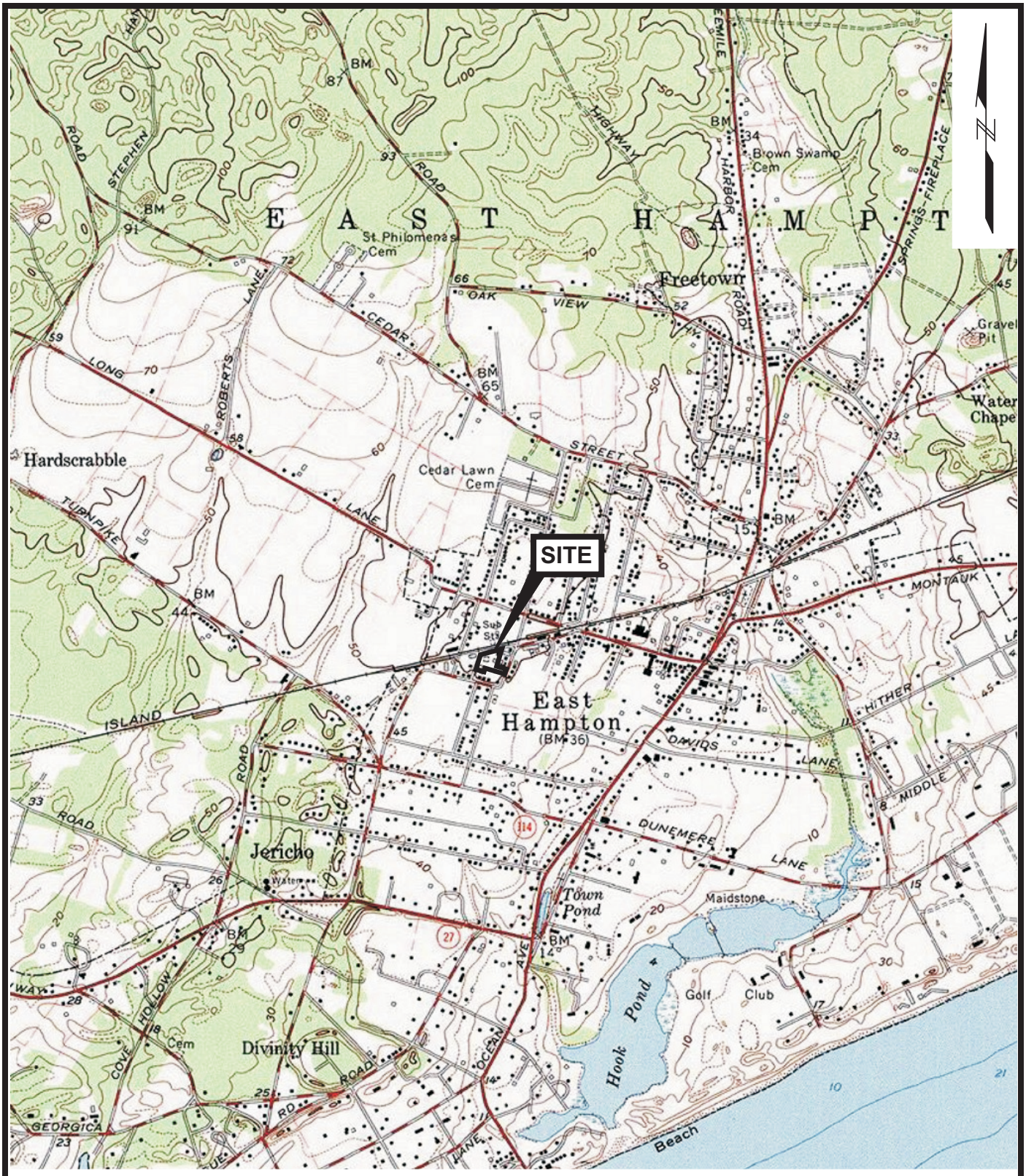
Sample Location: / Sample Date:	EHS-SV-01 2/4/2008	EHS-SV-02 2/4/2008	EHS-SV-03 2/4/2008
BTEX (ug/m3)			
Benzene	**1.17**	0.638 U	0.638 U
Ethylbenzene	**3.51**	0.868 U	**0.609 J**
Toluene	**29.3**	**0.446 J**	**2.49**
Xylene, m,p-	**9.16**	**0.457 J**	**2.13**
Xylene, o-	**3.38**	**0.194 J**	**0.745 J**
Other VOCs (ug/m3)			
Acetaldehyde	**11.5**	**26.6**	**10.8**
Acetone	**19.4**	0.475 U	**18.8**
Butane	**0.763**	0.475 U	**1.94 J**
Butanone,2-	**3.32**	0.589 U	**4.46**
Carbon disulfide	**0.572 J**	0.622 U	**3.97**
Carbon tetrachloride	1.26 U	1.26 U	**0.49 J**
Chloroform	**0.238 J**	0.976 U	**0.875 J**
Chloromethane	**0.173 J**	**0.128 J**	**0.105 J**
Cyclohexane	**0.583 J**	0.688 U	**0.107 J**
Decane, n-	2.2 j	**1.09 J**	**1.55 J**
Dichlorobenzene,1,3-	**0.43 J**	1.2 U	1.2 U
Dichlorodifluoromethane	**2.33**	**2.36**	**2.35 J**
Dodecane, n-	**2.68 J**	**1.66 J**	**3.63 J**
Ethanol	**65.3**	**4.77**	**11.8**
Ethyltoluene, p-	**0.759 J**	0.982 UJ	**0.239 J**
Heptane, n-	**1.24**	**0.263 J**	**0.317 J**
Hexane, n-	**0.81**	0.704 U	0.704 U
Hexanone,2-	0.819 U	**2.81**	**0.408 J**
Indan	**0.373 J**	0.967 U	**0.162 J**
Methyl-2-pentanone,4-	**0.721 J**	0.819 U	0.819 U
Methylene chloride	**1.49**	0.694 U	**0.989**
Naphthalene	**0.377 J**	**0.2 J**	**0.239 J**
Nonane	**1.29**	**0.8 J**	**0.29 J**
Octane, n-	**1.32**	**0.303 J**	**0.345 J**
Pentane	**1.35**	**0.771**	**0.816**
Propanol,2-	**12.1**	**0.848**	**3.26**
Styrene	**1.75**	0.851 U	**0.194 J**
t-Butyl alcohol	0.606 U	**1.2**	0.606 U
Tetrachloroethene	**45**	**0.247 J**	**0.369 J**
Tetramethylbenzene, 1,2,4,5-	**0.222 J**	1.1 U	1.1 U
Trans-1,2-dichloroethene	**0.586 J**	0.792 U	0.792 U
Trichloro-1,2,2-trifluoroethane, 1,1,2-	**0.594 J**	1.53 U	**0.569 J**
Trichloroethane,1,1,1-	1.09 U	**0.696 J**	**11.4**
Trichloroethene	**0.292 J**	1.07 U	1.07 U
Trichlorofluoromethane	**2.17**	1.12 U	**1.19**
Trimethylbenzene,1,2,3-	**0.715 J**	**0.341 J**	**0.29 J**
Trimethylbenzene,1,2,4-	**2.4**	**0.482 J**	**0.87 J**
Trimethylbenzene,1,3,5-	**0.838 J**	**0.273 J**	**0.289 J**
Trimethylpentane, 2,2,4-	**0.843 J**	0.934 U	**0.245 J**
Undecane, n-	**1.2 J**	**1.48**	**2.11**
Other (%)			
Helium	0.0165 U	**0.018**	**0.0191 J**

Table 8
Soil Vapor Analytical Results for Detected Compounds
East Hampton Hortonsphere Site
East Hampton, New York

Notes:

ug/m^3 - micrograms per cubic meter
VOCs - Volatile Organic Compounds
BTEX - Benzene, Toluene, Ethylbenzene, and Xylene (a subset of VOCs)
Bolding indicates a detected result value
U - Not detected at or above the reporting limit shown
J - Estimated value

Figures



SOURCE: Map created with TOPO! ® ©2001 National Geographic (www.nationalgeographic.com/topo)

0 2000 4000

SCALE, FEET

SITE CHARACTERIZATION REPORT
EAST HAMPTON HORTONSPHERE SITE
EAST HAMPTON, NEW YORK

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Project 093000-2-1201

SITE LOCATION MAP

February 2010 Figure 1

I:\GEI\National Grid\East Hampton\EH Hortonsphere\093000\East Hampton Location Map.CDR



LEGEND:

- PROPERTY BOUNDARY (APPROXIMATE)
- 50 — GROUND SURFACE CONTOUR (FEET, NAVD)
- FENCE
- EHS-GP-01/ EHS-GW-01 — GEOPROBE® BORING LOCATION/ TEMPORARY GROUNDWATER SAMPLING LOCATION
- EHS-SV-02 — SOIL VAPOR SAMPLE LOCATION
- EHS-SS-01 — SURFACE SOIL SAMPLE LOCATION
- A — A' — CROSS SECTION LOCATION

NOTE:

LOCATIONS OF SURFACE SOIL SAMPLES EHS-SS-04, EHS-SS-05, AND EHS-SS-06 ARE BASED ON TAPED MEASUREMENTS FROM KNOWN POINTS.

SOURCES:

1. Orthophoto obtained from New York State Interactive Mapping Gateway (http://www1.nysgis.state.ny.us/MainMap.cfm) photo date: 2004, accessed 1/09/08.
2. Long Island Lighting Co., Mineola, N.Y., East Hampton Substation and Gas Storage Site, Situated at East Hampton, Town of East Hampton, County of Suffolk, N.Y., Scale: 1" = 60', Date: 10-17-72.
3. Survey of existing conditions and sample locations conducted by GEI Consultants, Inc. on 12/14/07. Survey by New York state licensed land surveyor number 050146. Horizontal datum: New York State Plane coordinate system (Long Island Zone, North American Datum (NAD)83). Vertical datum: North American Vertical Datum (NAVD) 88.

FINAL SITE CHARACTERIZATION REPORT
EAST HAMPTON HORTONSPHERE SITE
EAST HAMPTON, NEW YORK

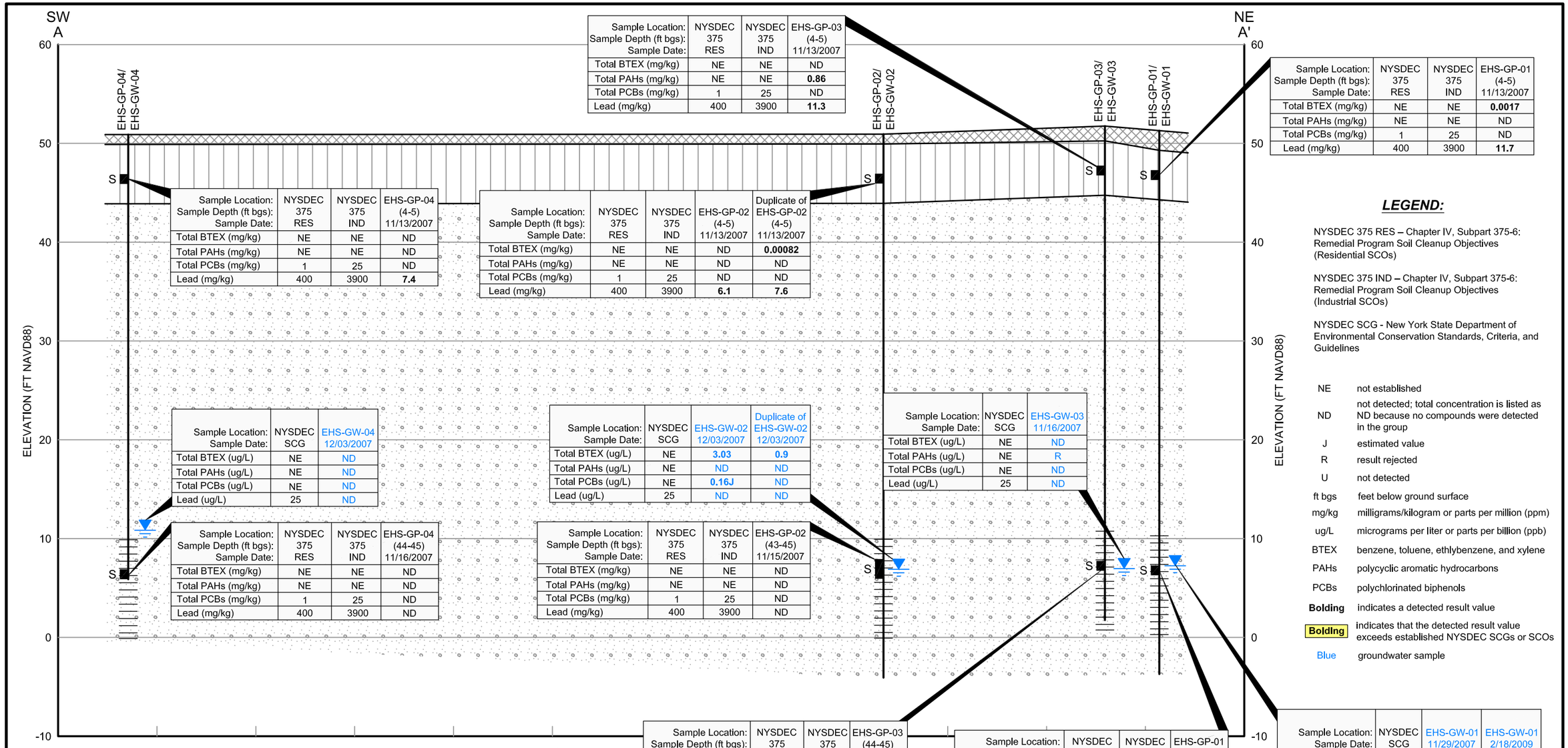
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CURRENT CONFIGURATION AND SAMPLE LOCATIONS

Project 093000-2-1201 | February 2010 | Figure 2

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Sample Location: / Sample Depth (ft bgs): / Sample Date:	NYSDEC 375 RES	NYSDEC 375 IND	EHS-GP-03 (4-5) 11/13/2007
Total BTEX (mg/kg)	NE	NE	ND
Total PAHs (mg/kg)	NE	NE	**0.86**
Total PCBs (mg/kg)	1	25	ND
Lead (mg/kg)	400	3900	**11.3**

Sample Location: / Sample Depth (ft bgs): / Sample Date:	NYSDEC 375 RES	NYSDEC 375 IND	EHS-GP-01 (4-5) 11/13/2007
Total BTEX (mg/kg)	NE	NE	**0.0017**
Total PAHs (mg/kg)	NE	NE	ND
Total PCBs (mg/kg)	1	25	ND
Lead (mg/kg)	400	3900	**11.7**

Sample Location: / Sample Depth (ft bgs): / Sample Date:	NYSDEC 375 RES	NYSDEC 375 IND	EHS-GP-04 (4-5) 11/13/2007
Total BTEX (mg/kg)	NE	NE	ND
Total PAHs (mg/kg)	NE	NE	ND
Total PCBs (mg/kg)	1	25	ND
Lead (mg/kg)	400	3900	**7.4**

Sample Location: / Sample Depth (ft bgs): / Sample Date:	NYSDEC 375 RES	NYSDEC 375 IND	EHS-GP-02 (4-5) 11/13/2007	Duplicate of EHS-GP-02 (4-5) 11/13/2007
Total BTEX (mg/kg)	NE	NE	ND	**0.00082**
Total PAHs (mg/kg)	NE	NE	ND	ND
Total PCBs (mg/kg)	1	25	ND	ND
Lead (mg/kg)	400	3900	**6.1**	**7.6**

Sample Location: / Sample Date:	NYSDEC SCG	EHS-GW-04 12/03/2007
Total BTEX (ug/L)	NE	ND
Total PAHs (ug/L)	NE	ND
Total PCBs (ug/L)	NE	ND
Lead (ug/L)	25	ND

Sample Location: / Sample Date:	NYSDEC SCG	EHS-GW-02 12/03/2007	Duplicate of EHS-GW-02 12/03/2007
Total BTEX (ug/L)	NE	**3.03**	**0.9**
Total PAHs (ug/L)	NE	ND	ND
Total PCBs (ug/L)	NE	**0.16J**	ND
Lead (ug/L)	25	ND	ND

Sample Location: / Sample Date:	NYSDEC SCG	EHS-GW-03 11/16/2007
Total BTEX (ug/L)	NE	ND
Total PAHs (ug/L)	NE	R
Total PCBs (ug/L)	NE	ND
Lead (ug/L)	25	ND

Sample Location: / Sample Depth (ft bgs): / Sample Date:	NYSDEC 375 RES	NYSDEC 375 IND	EHS-GP-04 (44-45) 11/16/2007
Total BTEX (mg/kg)	NE	NE	ND
Total PAHs (mg/kg)	NE	NE	ND
Total PCBs (mg/kg)	1	25	ND
Lead (mg/kg)	400	3900	ND

Sample Location: / Sample Depth (ft bgs): / Sample Date:	NYSDEC 375 RES	NYSDEC 375 IND	EHS-GP-02 (43-45) 11/15/2007
Total BTEX (mg/kg)	NE	NE	ND
Total PAHs (mg/kg)	NE	NE	ND
Total PCBs (mg/kg)	1	25	ND
Lead (mg/kg)	400	3900	ND

Sample Location: / Sample Depth (ft bgs): / Sample Date:	NYSDEC 375 RES	NYSDEC 375 IND	EHS-GP-03 (44-45) 11/14/2007
Total BTEX (mg/kg)	NE	NE	ND
Total PAHs (mg/kg)	NE	NE	ND
Total PCBs (mg/kg)	1	25	ND
Lead (mg/kg)	400	3900	**0.76J**

Sample Location: / Sample Depth (ft bgs): / Sample Date:	NYSDEC 375 RES	NYSDEC 375 IND	EHS-GP-01 (44-45) 11/13/2007
Total BTEX (mg/kg)	NE	NE	**0.0011**
Total PAHs (mg/kg)	NE	NE	ND
Total PCBs (mg/kg)	1	25	ND
Lead (mg/kg)	400	3900	ND

Sample Location: / Sample Date:	NYSDEC SCG	EHS-GW-01 11/29/2007	EHS-GW-01 2/18/2009
Total BTEX (ug/L)	NE	ND	NS
Total PAHs (ug/L)	NE	ND	NS
Total PCBs (ug/L)	NE	ND	NS
Lead (ug/L)	25	**62**	ND

LEGEND:

NYSDEC 375 RES – Chapter IV, Subpart 375-6: Remedial Program Soil Cleanup Objectives (Residential SCOs)

NYSDEC 375 IND – Chapter IV, Subpart 375-6: Remedial Program Soil Cleanup Objectives (Industrial SCOs)

NYSDEC SCG - New York State Department of Environmental Conservation Standards, Criteria, and Guidelines

NE	not established
ND	not detected; total concentration is listed as ND because no compounds were detected in the group
J	estimated value
R	result rejected
U	not detected
ft bgs	feet below ground surface
mg/kg	milligrams/kilogram or parts per million (ppm)
ug/L	micrograms per liter or parts per billion (ppb)
BTEX	benzene, toluene, ethylbenzene, and xylene
PAHs	polycyclic aromatic hydrocarbons
PCBs	polychlorinated biphenols
Bolding	indicates a detected result value
Boldlng	indicates that the detected result value exceeds established NYSDEC SCGs or SCOs
Blue	groundwater sample

LEGEND

EHS-GP-04/
EHS-GW-04

S

SOIL BORING/TEMPORARY MONITORING WELL IDENTIFICATION

OBSERVED APPARENT GROUNDWATER TABLE BASED UPON BORING INFORMATION

ANALYTICAL SOIL SAMPLE INTERVAL

WELL SCREEN INTERVAL

CONTACT

CONTACT IS APPROXIMATE

GEOLOGY

FILL

SANDY SILT WITH GRAVEL

SAND AND GRAVEL

10 0 5 10
VERTICAL SCALE IN FEET

20 10 0 20
HORIZONTAL SCALE IN FEET

NOTE: VERTICAL EXAGGERATION = 2X

FINAL SITE CHARACTERIZATION REPORT
EAST HAMPTON FORMER HORTONSPHERE SITE
EAST HAMPTON, NEW YORK

nationalgrid

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Project 093000-2-1201

CROSS SECTION A-A'

February 2010

Figure 3

I:\GEI\National Grid\East Hampton\EH Hortonsphere\093000\ EHH-SCR Final Figures 2-10.dwg \Feb 17, 2010

NW
B

SE
B'

ELEVATION (FT NAVD88)

60
50
40
30
20
10
0
-10

EHS-GP-04/
EHS-GW-04

EHS-GP-05/
EHS-GW-05

S

Sample Location: / Sample Depth (ft bgs): / Sample Date:	NYSDEC 375 RES	NYSDEC 375 IND	EHS-GP-04 (4-5) 11/13/2007
Total BTEX (mg/kg)	NE	NE	ND
Total PAHs (mg/kg)	NE	NE	ND
Total PCBs (mg/kg)	1	25	ND
Lead (mg/kg)	400	3900	**7.4**

Sample Location: / Sample Depth (ft bgs): / Sample Date:	NYSDEC 375 RES	NYSDEC 375 IND	EHS-GP-05 (4-5) 11/16/2007
Total BTEX (mg/kg)	NE	NE	ND
Total PAHs (mg/kg)	NE	NE	ND
Total PCBs (mg/kg)	1	25	ND
Lead (mg/kg)	400	3900	**6.7**

Sample Location: / Sample Date:	NYSDEC SCG	EHS-GW-04 12/03/2007
Total BTEX (ug/L)	NE	ND
Total PAHs (ug/L)	NE	ND
Total PCBs (ug/L)	NE	ND
Lead (ug/L)	25	ND

Sample Location: / Sample Depth (ft bgs): / Sample Date:	NYSDEC 375 RES	NYSDEC 375 IND	EHS-GP-04 (44-45) 11/16/2007
Total BTEX (mg/kg)	NE	NE	ND
Total PAHs (mg/kg)	NE	NE	ND
Total PCBs (mg/kg)	1	25	ND
Lead (mg/kg)	400	3900	ND

Sample Location: / Sample Depth (ft bgs): / Sample Date:	NYSDEC 375 RES	NYSDEC 375 IND	EHS-GP-05 (44-45) 11/16/2007
Total BTEX (mg/kg)	NE	NE	ND
Total PAHs (mg/kg)	NE	NE	ND
Total PCBs (mg/kg)	1	25	ND
Lead (mg/kg)	400	3900	ND

Sample Location: / Sample Date:	NYSDEC SCG	EHS-GW-05 12/03/2007
Total BTEX (ug/L)	NE	ND
Total PAHs (ug/L)	NE	**6.66**
Total PCBs (ug/L)	NE	ND
Lead (ug/L)	25	ND

LEGEND:

NYSDEC 375 RES – Chapter IV, Subpart 375-6: Remedial Program Soil Cleanup Objectives (Residential SCOs)

NYSDEC 375 IND – Chapter IV, Subpart 375-6: Remedial Program Soil Cleanup Objectives (Industrial SCOs)

NYSDEC SCG - New York State Department of Environmental Conservation Standards, Criteria, and Guidelines

NE	not established
ND	not detected; total concentration is listed as ND because no compounds were detected in the group
J	estimated value
U	not detected
ft bgs	feet below ground surface
mg/kg	milligrams/kilogram or parts per million (ppm)
ug/L	micrograms per liter or parts per billion (ppb)
BTEX	benzene, toluene, ethlybenzene, and xylene
PAHs	polycyclic aromatic hydrocarbons
PCBs	polychlorinated biphenols
Bolding	indicates a detected result value
BoldIng	indicates that the detected result value exceeds established NYSDEC SCGs or SCOs
Blue	groundwater sample

LEGEND

EHS-GP-04/
EHS-GW-04

SOIL BORING/TEMPORARY MONITORING WELL IDENTIFICATION

OBSERVED APPARENT GROUNDWATER TABLE BASED UPON BORING INFORMATION

S

ANALYTICAL SOIL SAMPLE INTERVAL

WELL SCREEN INTERVAL

CONTACT

CONTACT IS APPROXIMATE

GEOLOGY

FILL

SANDY SILT WITH GRAVEL

SAND AND GRAVEL

10
0
5
10
VERTICAL SCALE IN FEET

20 10 0 20
HORIZONTAL SCALE IN FEET

NOTE: VERTICAL EXAGGERATION = 2X

FINAL SITE CHARACTERIZATION REPORT
EAST HAMPTON FORMER HORTONSPHERE SITE
EAST HAMPTON, NEW YORK

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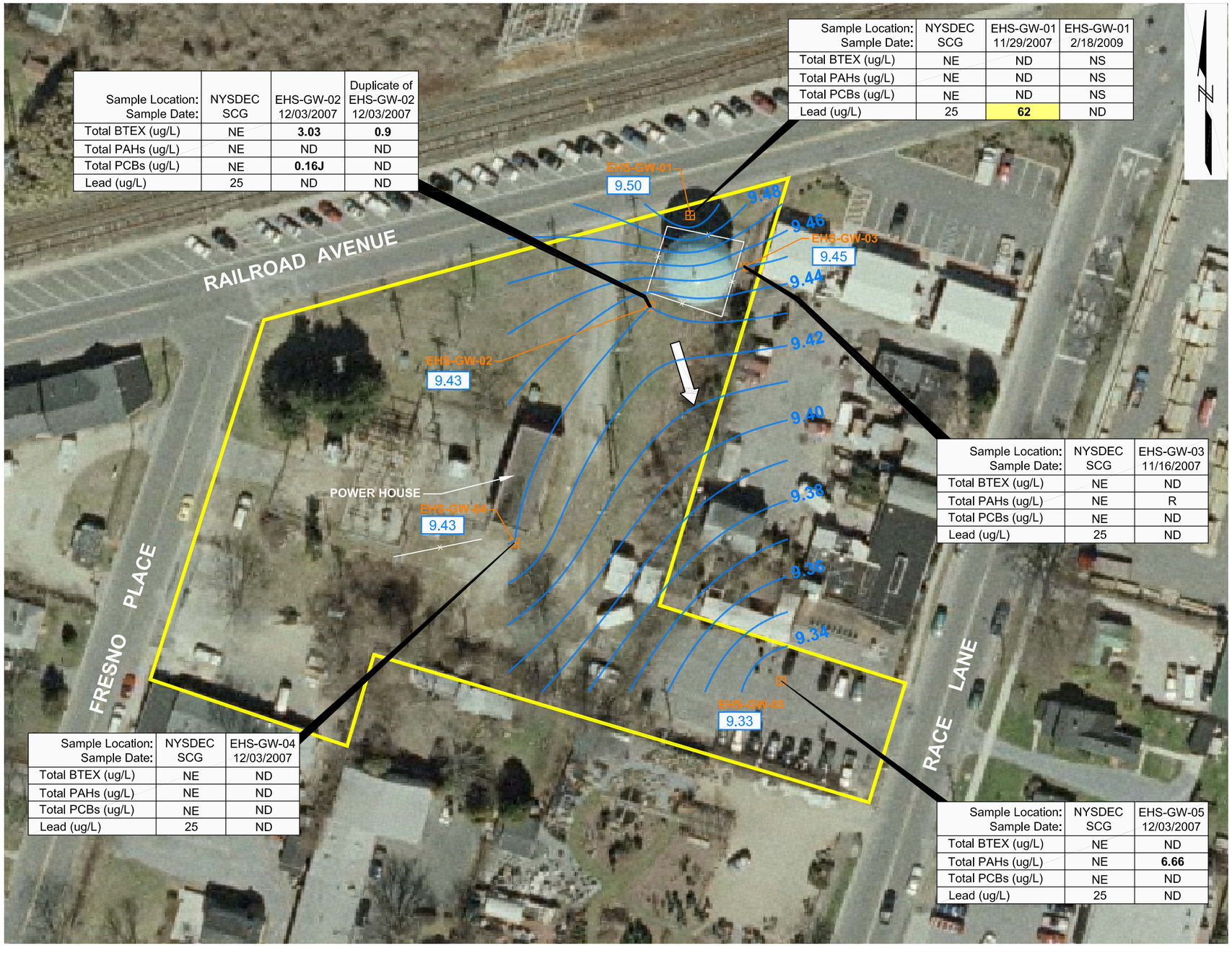
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Project 093000-2-1201

CROSS SECTION B-B'

February 2010 Figure 4

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Sample Location: / Sample Date:	NYSDEC SCG	EHS-GW-02 12/03/2007	Duplicate of EHS-GW-02 12/03/2007
Total BTEX (ug/L)	NE	**3.03**	**0.9**
Total PAHs (ug/L)	NE	ND	ND
Total PCBs (ug/L)	NE	**0.16J**	ND
Lead (ug/L)	25	ND	ND

Sample Location: / Sample Date:	NYSDEC SCG	EHS-GW-01 11/29/2007	EHS-GW-01 2/18/2009
Total BTEX (ug/L)	NE	ND	NS
Total PAHs (ug/L)	NE	ND	NS
Total PCBs (ug/L)	NE	ND	NS
Lead (ug/L)	25	**62**	ND

Sample Location: / Sample Date:	NYSDEC SCG	EHS-GW-03 11/16/2007
Total BTEX (ug/L)	NE	ND
Total PAHs (ug/L)	NE	R
Total PCBs (ug/L)	NE	ND
Lead (ug/L)	25	ND

Sample Location: / Sample Date:	NYSDEC SCG	EHS-GW-04 12/03/2007
Total BTEX (ug/L)	NE	ND
Total PAHs (ug/L)	NE	ND
Total PCBs (ug/L)	NE	ND
Lead (ug/L)	25	ND

Sample Location: / Sample Date:	NYSDEC SCG	EHS-GW-05 12/03/2007
Total BTEX (ug/L)	NE	ND
Total PAHs (ug/L)	NE	**6.66**
Total PCBs (ug/L)	NE	ND
Lead (ug/L)	25	ND

LEGEND:

- PROPERTY BOUNDARY (APPROXIMATE)
- FENCE
- EHS-GW-01 ⊞ — TEMPORARY MONITORING WELL LOCATION
- 9.50 — GROUNDWATER ELEVATION 2009 (FEET NAVD)
- 9.40 — INFERRED GROUNDWATER ELEVATION CONTOUR JUNE 2009 (FEET NAVD)
- INFERRED GROUNDWATER FLOW DIRECTION
- NAVD — NORTH AMERICAN VERTICAL DATUM

NYSDEC SCG - New York State Department of Environmental Conservation Standards, Criteria, and Guidelines

NE	not established
ND	not detected; total concentration is listed as ND because no compounds were detected in the group
NS	not sampled
J	estimated value
R	results rejected
U	not detected
ug/L	micrograms per liter or parts per billion (ppb)
Bolding	indicates a detected result value
Bolding	indicates that the detected result value exceeds established NYSDEC SCGs
BTEX	benzene, toluene, ethlybenzene, and xylene
PAHs	polycyclic aromatic hydrocarbons
PCBs	polychlorinated biphenols

SOURCES:

1. Orthophoto obtained from New York State Interactive Mapping Gateway (http://www1.nysgis.state.ny.us/MainMap.cfm) photo date: 2004, accessed 1/09/08.
2. Long Island Lighting Co., Mineola, N.Y., East Hampton Substation and Gas Storage Site, Situated at East Hampton, Town of East Hampton, County of Suffolk, N.Y., Scale: 1" = 60', Date: 10-17-72.
3. Survey of existing conditions and sample locations conducted by GEI Consultants, Inc. on 12/14/07. Survey by New York state licensed land surveyor number 050146. Horizontal datum: New York State Plane coordinate system (Long Island Zone, North American Datum (NAD)83). Vertical datum: North American Vertical Datum (NAVD) 88.

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SCALE, FEET

FINAL SITE CHARACTERIZATION REPORT
EAST HAMPTON HORTONSPHERE SITE
EAST HAMPTON, NEW YORK

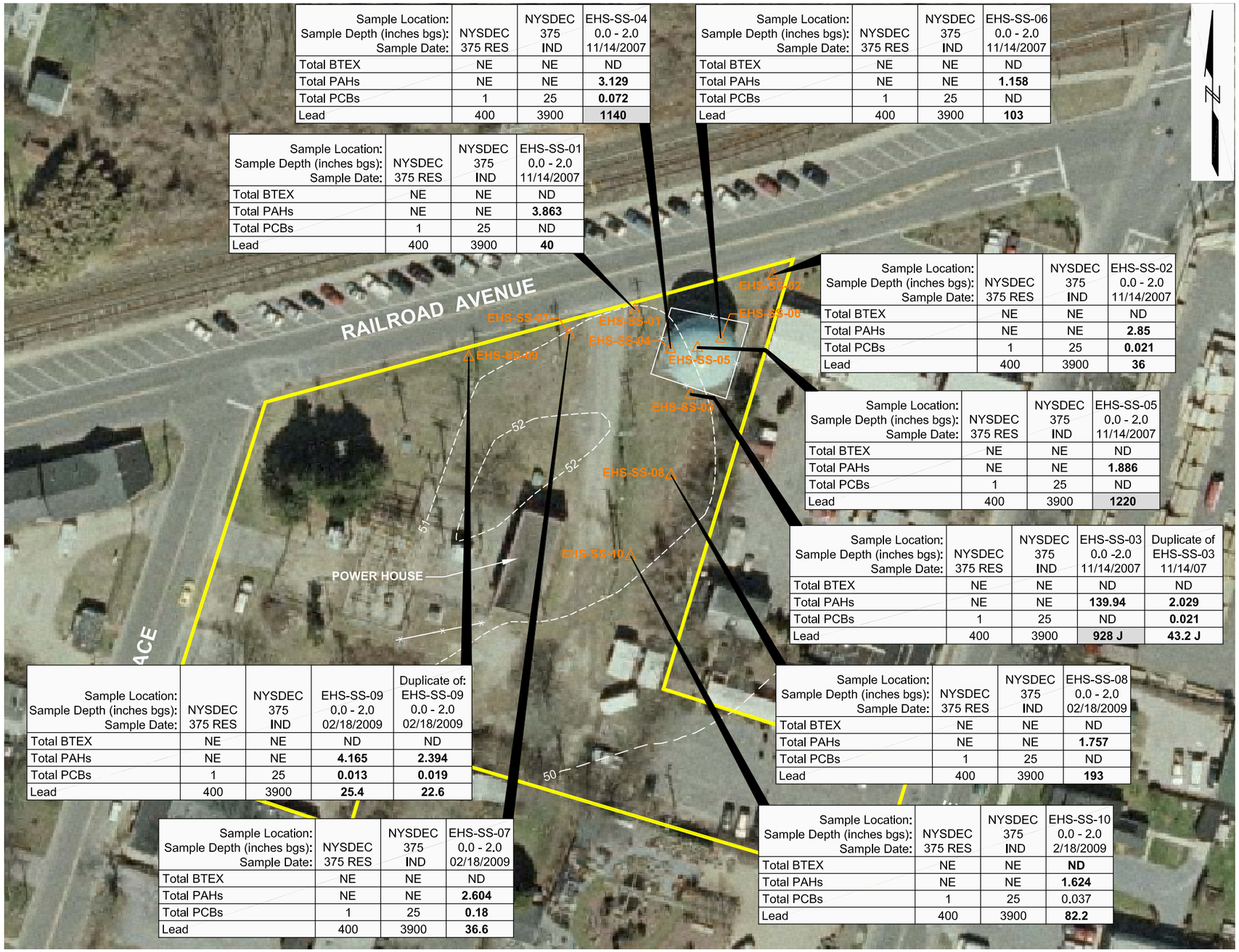
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GROUNDWATER CONTOURS (JUNE 2009) AND GROUNDWATER ANALYTICAL SUMMARY (ug/L)

Project 093000-2-1201 | February 2010 | Figure 5

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Sample Location: / Sample Depth (inches bgs): / Sample Date:	NYSDEC 375 RES	NYSDEC 375 IND	EHS-SS-04 0.0 - 2.0 11/14/2007
Total BTEX	NE	NE	ND
Total PAHs	NE	NE	**3.129**
Total PCBs	1	25	**0.072**
Lead	400	3900	**1140**

Sample Location: / Sample Depth (inches bgs): / Sample Date:	NYSDEC 375 RES	NYSDEC 375 IND	EHS-SS-06 0.0 - 2.0 11/14/2007
Total BTEX	NE	NE	ND
Total PAHs	NE	NE	**1.158**
Total PCBs	1	25	ND
Lead	400	3900	**103**

Sample Location: / Sample Depth (inches bgs): / Sample Date:	NYSDEC 375 RES	NYSDEC 375 IND	EHS-SS-01 0.0 - 2.0 11/14/2007
Total BTEX	NE	NE	ND
Total PAHs	NE	NE	**3.863**
Total PCBs	1	25	ND
Lead	400	3900	**40**

Sample Location: / Sample Depth (inches bgs): / Sample Date:	NYSDEC 375 RES	NYSDEC 375 IND	EHS-SS-02 0.0 - 2.0 11/14/2007
Total BTEX	NE	NE	ND
Total PAHs	NE	NE	**2.85**
Total PCBs	1	25	**0.021**
Lead	400	3900	**36**

Sample Location: / Sample Depth (inches bgs): / Sample Date:	NYSDEC 375 RES	NYSDEC 375 IND	EHS-SS-05 0.0 - 2.0 11/14/2007
Total BTEX	NE	NE	ND
Total PAHs	NE	NE	**1.886**
Total PCBs	1	25	ND
Lead	400	3900	**1220**

Sample Location: / Sample Depth (inches bgs): / Sample Date:	NYSDEC 375 RES	NYSDEC 375 IND	EHS-SS-03 0.0 -2.0 11/14/2007	Duplicate of EHS-SS-03 11/14/07
Total BTEX	NE	NE	ND	ND
Total PAHs	NE	NE	**139.94**	**2.029**
Total PCBs	1	25	ND	**0.021**
Lead	400	3900	**928 J**	**43.2 J**

Sample Location: / Sample Depth (inches bgs): / Sample Date:	NYSDEC 375 RES	NYSDEC 375 IND	EHS-SS-09 0.0 - 2.0 02/18/2009	Duplicate of: EHS-SS-09 0.0 - 2.0 02/18/2009
Total BTEX	NE	NE	ND	ND
Total PAHs	NE	NE	**4.165**	**2.394**
Total PCBs	1	25	**0.013**	**0.019**
Lead	400	3900	**25.4**	**22.6**

Sample Location: / Sample Depth (inches bgs): / Sample Date:	NYSDEC 375 RES	NYSDEC 375 IND	EHS-SS-08 0.0 - 2.0 02/18/2009
Total BTEX	NE	NE	ND
Total PAHs	NE	NE	**1.757**
Total PCBs	1	25	ND
Lead	400	3900	**193**

Sample Location: / Sample Depth (inches bgs): / Sample Date:	NYSDEC 375 RES	NYSDEC 375 IND	EHS-SS-07 0.0 - 2.0 02/18/2009
Total BTEX	NE	NE	ND
Total PAHs	NE	NE	**2.604**
Total PCBs	1	25	**0.18**
Lead	400	3900	**36.6**

Sample Location: / Sample Depth (inches bgs): / Sample Date:	NYSDEC 375 RES	NYSDEC 375 IND	EHS-SS-10 0.0 - 2.0 2/18/2009
Total BTEX	NE	NE	**ND**
Total PAHs	NE	NE	**1.624**
Total PCBs	1	25	0.037
Lead	400	3900	**82.2**

LEGEND:

PROPERTY BOUNDARY (APPROXIMATE)

50 — GROUND SURFACE CONTOUR (FEET, NAVD)

FENCE

EHS-SS-01 △ SURFACE SOIL SAMPLE LOCATION

NYCRR 375 SCO RESTRICTED USE RESIDENTIAL - New York State Code of Rules and Regulations Chapter 6, Subpart 375-6 Restricted Use Residential Soil Cleanup Objectives (Residential SCOs)

NYCRR 375 SCO RESTRICTED USE INDUSTRIAL - New York State Code of Rules and Regulations (NYCRR) Chapter 6, Subpart 375-6 Restricted Use Industrial Soil Cleanup Objectives (Industrial SCOs)

NE	not established
ND	not detected; total concentration is listed as ND because no compounds were detected in the group
BOLD	indicates detected result
BOLD	indicates the result exceeds 6NYCRR Part 375 Restricted Use Residential criteria
BOLD	indicates the result exceeds 6NYCRR Part 375 Restricted Use Residential and Industrial Use criteria
mg/kg	milligrams/kilogram or parts per million (ppm)
BTEX	benzene, toluene, ethlybenzene, and xylene
PAHs	polycyclic aromatic hydrocarbons
PCBs	polychlorinated biphenyls

NOTE:

LOCATIONS OF SURFACE SOIL SAMPLES EHS-SS-04, EHS-SS-05, EHS-SS-06, EHS-SS-07, EHS-SS-08, EHS-SS-09 AND EHS-SS-10 ARE BASED ON TAPED MEASUREMENTS FROM KNOWN POINTS.

SOURCES:

1. Orthophoto obtained from New York State Interactive Mapping Gateway (http://www1.nysgis.state.ny.us/MainMap.cfm) photo date: 2004, accessed 1/09/08.
2. Long Island Lighting Co., Mineola, N.Y., East Hampton Substation and Gas Storage Site, Situated at East Hampton, Town of East Hampton, County of Suffolk, N.Y., Scale: 1" = 60', Date: 10-17-72.
3. Survey of existing conditions and sample locations conducted by GEI Consultants, Inc. on 12/14/07. Survey by New York state licensed land surveyor number 050146. Horizontal datum: New York State Plane coordinate system (Long Island Zone, North American Datum (NAD)83). Vertical datum: North American Vertical Datum (NAVD) 88.

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SCALE, FEET

FINAL SITE CHARACTERIZATION REPORT
EAST HAMPTON HORTONSPHERE SITE
EAST HAMPTON, NEW YORK

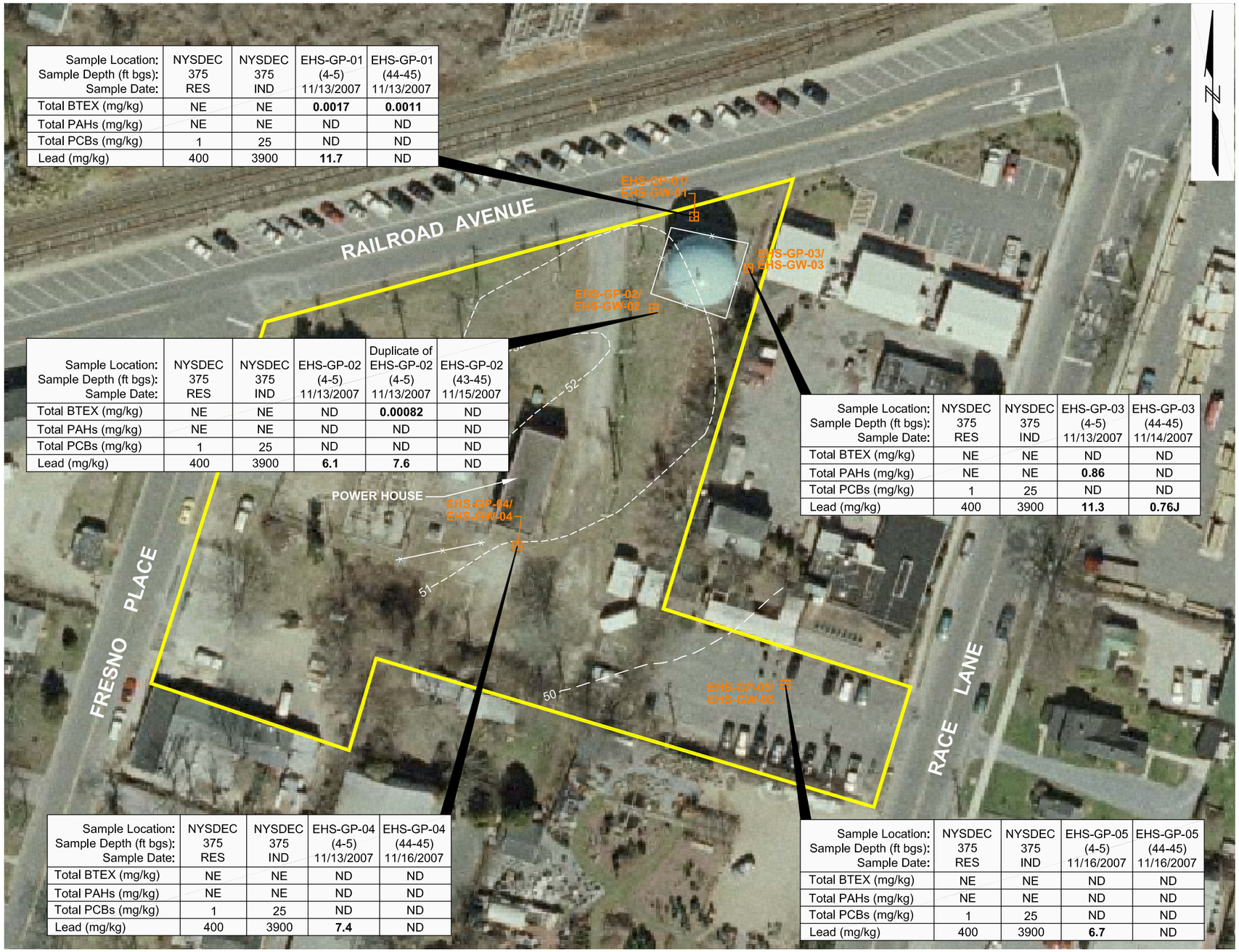
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SURFACE SOIL ANALYTICAL SUMMARY (mg/kg)

Project 093000-2-1201 | February 2010 | Figure 6

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Sample Location: / Sample Depth (ft bgs): / Sample Date:	NYSDEC 375 RES	NYSDEC 375 IND	EHS-GP-01 (4-5) 11/13/2007	EHS-GP-01 (44-45) 11/13/2007
Total BTEX (mg/kg)	NE	NE	**0.0017**	**0.0011**
Total PAHs (mg/kg)	NE	NE	ND	ND
Total PCBs (mg/kg)	1	25	ND	ND
Lead (mg/kg)	400	3900	**11.7**	ND

Sample Location: / Sample Depth (ft bgs): / Sample Date:	NYSDEC 375 RES	NYSDEC 375 IND	EHS-GP-02 (4-5) 11/13/2007	Duplicate of EHS-GP-02 (4-5) 11/13/2007	EHS-GP-02 (43-45) 11/15/2007
Total BTEX (mg/kg)	NE	NE	ND	**0.00082**	ND
Total PAHs (mg/kg)	NE	NE	ND	ND	ND
Total PCBs (mg/kg)	1	25	ND	ND	ND
Lead (mg/kg)	400	3900	**6.1**	**7.6**	ND

Sample Location: / Sample Depth (ft bgs): / Sample Date:	NYSDEC 375 RES	NYSDEC 375 IND	EHS-GP-03 (4-5) 11/13/2007	EHS-GP-03 (44-45) 11/14/2007
Total BTEX (mg/kg)	NE	NE	ND	ND
Total PAHs (mg/kg)	NE	NE	**0.86**	ND
Total PCBs (mg/kg)	1	25	ND	ND
Lead (mg/kg)	400	3900	**11.3**	**0.76J**

Sample Location: / Sample Depth (ft bgs): / Sample Date:	NYSDEC 375 RES	NYSDEC 375 IND	EHS-GP-04 (4-5) 11/13/2007	EHS-GP-04 (44-45) 11/16/2007
Total BTEX (mg/kg)	NE	NE	ND	ND
Total PAHs (mg/kg)	NE	NE	ND	ND
Total PCBs (mg/kg)	1	25	ND	ND
Lead (mg/kg)	400	3900	**7.4**	ND

Sample Location: / Sample Depth (ft bgs): / Sample Date:	NYSDEC 375 RES	NYSDEC 375 IND	EHS-GP-05 (4-5) 11/16/2007	EHS-GP-05 (44-45) 11/16/2007
Total BTEX (mg/kg)	NE	NE	ND	ND
Total PAHs (mg/kg)	NE	NE	ND	ND
Total PCBs (mg/kg)	1	25	ND	ND
Lead (mg/kg)	400	3900	**6.7**	ND

LEGEND:

PROPERTY BOUNDARY (APPROXIMATE)

50 — GROUND SURFACE CONTOUR (FEET, NAVD)

FENCE

EHS-GP-01/ EHS-GW-01 — TEMPORARY MONITORING WELL LOCATION/ GEOPROBE® BORING LOCATION

NYCRR 375 SCO RESTRICTED USE RESIDENTIAL - New York State Code of Rules and Regulations Chapter 6, Subpart 375-6 Restricted Use Residential Soil Cleanup Objectives (Residential SCOs)

NYCRR 375 SCO RESTRICTED USE INDUSTRIAL - New York State Code of Rules and Regulations (NYCRR) Chapter 6, Subpart 375-6 Restricted Use Industrial Soil Cleanup Objectives (Industrial SCOs)

NE	not established
ND	not detected; total concentration is listed as ND because no compounds were detected in the group
BOLD	indicates detected result
BOLD	indicates the result exceeds 6NYCRR Part 375 Restricted Use Residential criteria
BOLD	indicates the result exceeds 6NYCRR Part 375 Restricted Use Residential and Industrial Use criteria
mg/kg	milligrams/kilogram or parts per million (ppm)
BTEX	benzene, toluene, ethlybenzene, and xylene
PAHs	polycyclic aromatic hydrocarbons
PCBs	polychlorinated biphenyls

SOURCES:

1. Orthophoto obtained from New York State Interactive Mapping Gateway (http://www1.nysgis.state.ny.us/MainMap.cfm) photo date: 2004, accessed 1/09/08.
2. Long Island Lighting Co., Mineola, N.Y., East Hampton Substation and Gas Storage Site, Situated at East Hampton, Town of East Hampton, County of Suffolk, N.Y., Scale: 1" = 60', Date: 10-17-72.
3. Survey of existing conditions and sample locations conducted by GEI Consultants, Inc. on 12/14/07. Survey by New York state licensed land surveyor number 050146. Horizontal datum: New York State Plane coordinate system (Long Island Zone, North American Datum (NAD)83). Vertical datum: North American Vertical Datum (NAVD) 88.

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SCALE, FEET

FINAL SITE CHARACTERIZATION REPORT
EAST HAMPTON HORTONSPHERE SITE
EAST HAMPTON, NEW YORK

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SUBSURFACE SOIL ANALYTICAL SUMMARY (mg/kg)

Project 093000-2-1201 | February 2010 | Figure 7

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Appendix A

Work Plan Approval Letter

New York State Department of Environmental Conservation
Division of Environmental Remediation, Region One
50 Circle Road, SUNY @ Stony Brook, New York 11790-3409
Phone: (631) 444-0240 • **FAX:** (631) 444-0248
Website: www.dec.state.ny.us

Alexander B. Grannis
Commissioner

November 16, 2007

Mr. Theodore O. Leissing, Jr.
Manager - MGP Programs, L.I.
Environmental Asset Management
KeySpan Corporation
175 East Old Country Road
Hicksville, NY 11801

Re: East Hampton Hortonsphere Site #1-52-213
Draft Site Characterization Work Plan; June 2007

Dear Mr. Leissing,

In a letter dated October 25, 2007, the New York State Department of Environmental Conservation (NYSDEC) provided you with comments and revisions to the referenced plan. Your response letter dated November 12, 2007 addressed the issues raised by the Department. As we discussed yesterday, the New York State Department of Health has requested that you increase the duration of soil gas sample collection from four minutes to ten minutes. Additionally, please revise the scope of work to reflect the fact that three soil gas samples will be collected rather than one.

Based upon your November 12, 2007 response letter and our discussions on November 15, 2007, the NYSDEC hereby approves the Site Characterization Work Plan. Please include these revisions in the final plan and re-submit four copies of the plan for NYSDEC distribution. If you should have any questions, please feel free to contact me at (631) 444-0246.

Sincerely,

Jamie Ascher
Engineering Geologist 2

cc: C. Vasudevan
W. Parish
D. Miles
R. Ockerby
P. Punturo
A. Juchatz
G. Iadarola

Appendix B

Supplemental Site Characterization Letter Work Plan

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Theodore O. Leissing
Manager, MGP Programs

January 23, 2009

Mr. Jamie Ascher
Engineering Geologist 2
New York State Department of Environmental Conservation
Division of Environmental Remediation, Region 1
Stony Brook University
50 Circle Road
Stony Brook, NY 11790-3409

Re: Supplemental Site Characterization Work Plan
East Hampton Hortonsphere Site
Index #: AI-0595-08-07; Site #: 152213
East Hampton, New York

Dear Mr. Ascher:

National Grid is submitting for your review and approval the following work plan to conduct Supplemental Site Characterization (SSC) activities at the former East Hampton Hortonsphere Site in East Hampton, New York. The Site location is shown in Figure 1. The current conditions of the property are shown in Figure 2.

This SSC letter work plan was developed in response to New York State Department of Environmental Conservation's (NYSDEC's) October 30, 2008 comment letter that requested additional characterization to further evaluate surface soils and metals in one groundwater well (GW-01).

When the SSC work is completed and analytical data has been validated, we will generate a data summary report for your review, prior to revising the current draft SC report.

In addition, National Grid plans to discuss with NYSDEC collection of background samples in the vicinity of the East Hampton Hortonsphere Site as well as other alternative gas sites on Long Island. If the background sampling plan is finalized prior to executing this SSC Work Plan, the background sampling will coincide with the surface soil and groundwater sampling.

The remaining portion of this letter provides the proposed SSC work plan in detail.

1.0 Supplemental Site Characterization

The SSC will be conducted in accordance with the NYSDEC-approved Site Characterization Work Plan (SCWP) dated November 2007, that includes the Health and Safety Plan, Quality Assurance Project Plan, and Field Sampling Plan. The following subsections describe the proposed investigations of surface soils and groundwater.

1.1 Surface Soil Sampling

Four surface soil samples (EHS-SS-07, EHS-SS-08, EHS-SS-09, and EHS-SS-10) are proposed to further evaluate soil conditions outside the fenced confines of the Hortonsphere. The locations of the proposed surface soil samples are shown in Figure 2.

175 East Old Country Road, Hicksville, NY 11801
T: 516.545.2555 ■ F: 516.545.2583 ■ theodore.leissing@us.ngrid.com ■ www.nationalgrid.com

Two surface soil samples (EHS-SS-07 and EHS-SS-09) will be collected in the grassed area outside the fenced confines of the Hortonsphere 50 feet and 100 feet to the west near the property boundary. Two surface soil samples (EHS-SS-08 and EHS-SS-10) will be collected in the grassed area outside the fenced confines of the Hortonsphere 50 feet and 100 feet to the south. The approximate sample locations are shown in Figure 2. The surface soil samples will be collected with a decontaminated stainless steel trowel or dedicated disposable sampling tool from 0 to 2 inches below the vegetative root mat. The grass will be removed prior to sampling and will be replaced following the completion of sampling activities.

These samples will be analyzed as specified in the Final SC work plan and additional analyses requested in the October 30, 2008 comment letter which includes:

- Volatile organic compounds (VOCs) via Environmental Protection Agency (EPA) method 8260
- Semi-volatile organic compounds (SVOCs) via EPA method 8270
- Target analyte list (TAL) metals via (EPA 6000/ 7000 series)
- Polychlorinated biphenyls (PCBs) and pesticides via EPA method 8082
- Herbicides via EPA method 8151A
- Atrazine and simazine via EPA method 8270C and metachlor via EPA method 8081A
- Sulfide via EPA method 9034 and sulfate via EPA method 300.0
- Metals via EPA Method 6010B.

Quality assurance/quality control samples will include one blind duplicate, and one rinsate blank. The batch MS/MSD data from the laboratory will be requested in lieu of a site-specific MS/MSD.

The surface soil samples will be submitted to TestAmerica Laboratories in Shelton, Connecticut for analysis. TestAmerica is a New York State Department of Health (NYSDOH) Environmental Laboratory Approval Program (ELAP) accredited laboratory.

The location of each sample point will be measured from known points and incorporated into the existing site base map.

1.2 Groundwater Sampling

Groundwater monitoring well GW-01 will be purged and re-sampled for metals (EPA Method 6010B). Depth to groundwater is approximately 42 feet below ground surface and a peristaltic pump used for low-flow sampling has an effective depth of 25 feet and less. As such, a bladder pump or Groundfos submersible pump will be used to collect the sample. The sample will not be collected unless turbidity is less than 50 nephelometric turbidity units (NTUs).
The groundwater sample will be analyzed for total metals by EPA method 6010B. Quality assurance/quality control samples will include one trip blank.

If groundwater turbidity less than 50 NTUs cannot be achieved, an unfiltered and a filtered sample will be collected in preserved bottles. Both samples will be submitted to the laboratory.

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The groundwater sample will be analyzed for total metals by EPA method 6010B. Quality assurance/quality control samples will include one trip blank.

If groundwater turbidity less than 50 NTUs cannot be achieved, an unfiltered and a filtered sample will be collected in preserved bottles. Both samples will be submitted to the laboratory. If the unfiltered sample results for metals exceed the New York State Ambient Water Quality Standard, the filtered sample will be analyzed for dissolved metals by EPA method 6010B.

A quality assurance/quality control sample will include one trip blank.

Groundwater will be collected in 55-gallon USDOT drums and disposed of at an approved disposal facility.

2.0 Schedule and Reporting

We anticipate that field work can start within approximately 3 weeks of receiving NYSDEC approval. A number of factors can affect the actual start date including the approval of this work plan, property access, and/or weather that may hamper collection of surface soil samples. National Grid will have to coordinate access with the Long Island Power Authority. The field work is expected to take approximately 1 day.

After completion of the field activities and receipt/validation of the laboratory analytical data, the existing draft SC report will be revised to include the supplemental data.

Sincerely,

FOR

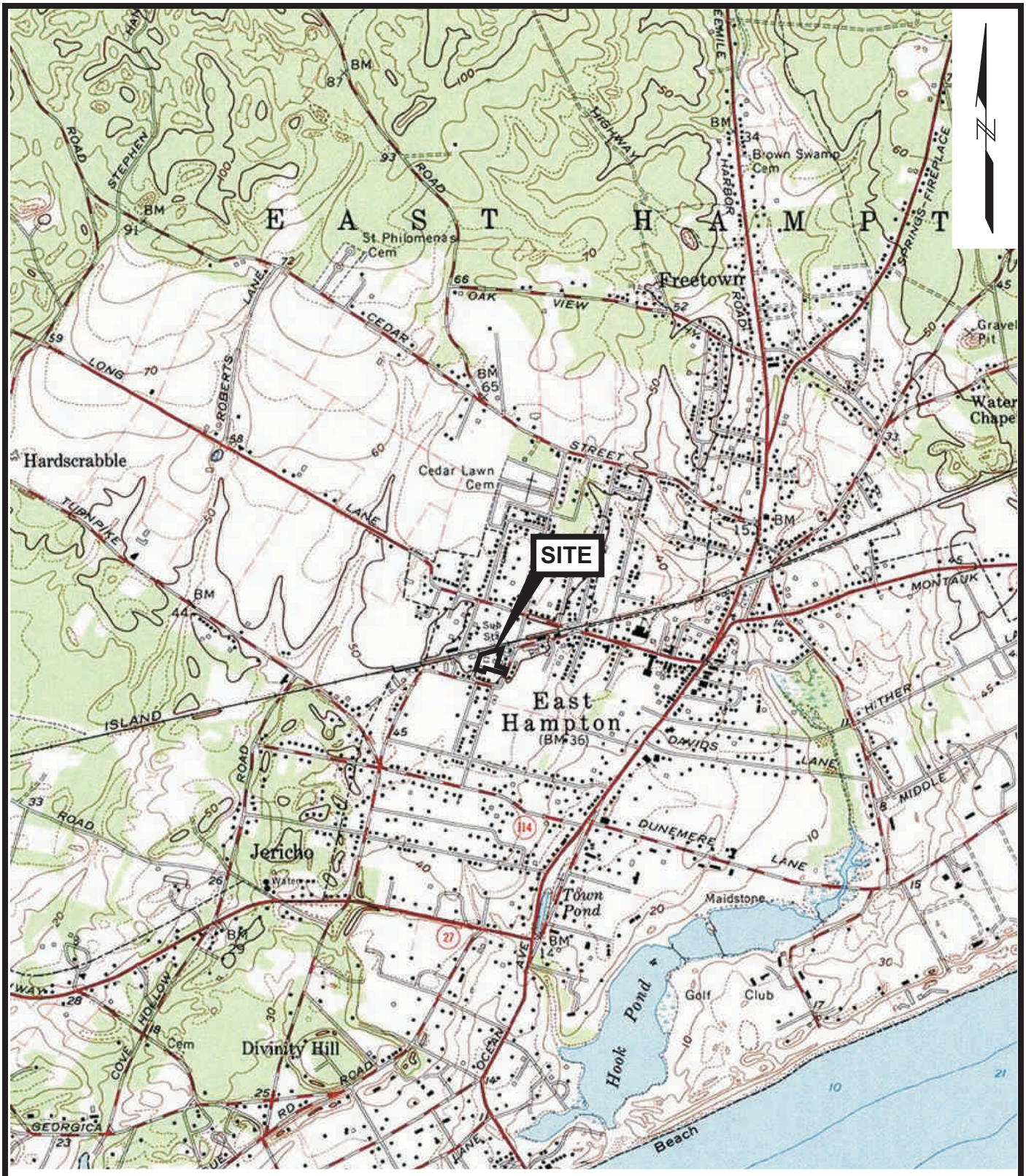
Theodore Leissing
Manager, MGP Programs
National Grid Site Investigation & Remediation

Attachment

cc: W. Parish, NYSDEC Region 1
C. Vasudevan, NYSDEC
L. Eckhaus, NYSDEC
R. Paulsen, SCDHS
A. Juchatz, SCDEE
R. Ockerby, NYSDOH
S. Shearer, NYSDOH
J. Zak, GEI
T. Burke, GEI

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175 East Old Country Road, Hicksville, NY 11801
T: 516.545.2555 ■ F: 516.545.2583 ■ theodore.leissing @us.ngrid.com ■ www.nationalgrid.com



SOURCE: Map created with TOPO! ® ©2001 National Geographic (www.nationalgeographic.com/topo)

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SCALE, FEET

SUPPLEMENTAL SITE CHARACTERIZATION WORK PLAN
EAST HAMPTON HORTONSPHERE SITE
EAST HAMPTON, NEW YORK

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Project 072710-2-1105

SITE LOCATION MAP

January 2009 Figure 1

I:\GEI\National Grid\East Hampton\EH Hortonsphere\SSCWP\East Hampton Location Map.CDR



LEGEND:

- PROPERTY BOUNDARY (APPROXIMATE)
- 50 — GROUND SURFACE CONTOUR (FEET, NAVD)
- FENCE
- EHS-SS-07 — PROPOSED SURFACE SOIL SAMPLE LOCATION
- EHS-GW-01 — PROPOSED GROUNDWATER RESAMPLING LOCATION
- EHS-GP-01/ EHS-GW-01 — GEOPROBE® BORING LOCATION/ TEMPORARY GROUNDWATER SAMPLING LOCATION
- EHS-SV-02 — SOIL VAPOR SAMPLE LOCATION
- EHS-SS-01 — SURFACE SOIL SAMPLE LOCATION
- A — A' — CROSS SECTION LOCATION

NOTE:
LOCATIONS OF SURFACE SOIL SAMPLES EHS-SS-04, EHS-SS-05, AND EHS-SS-06 ARE APPROXIMATE.

SOURCES:

1. Orthophoto obtained from New York State Interactive Mapping Gateway (http://www1.nysgis.state.ny.us/MainMap.cfm) photo date: 2004, accessed 1/09/08.
2. Long Island Lighting Co., Mineola, N.Y., East Hampton Substation and Gas Storage Site, Situated at East Hampton, Town of East Hampton, County of Suffolk, N.Y., Scale: 1" = 60', Date: 10-17-72.
3. Survey of existing conditions and sample locations conducted by GEI Consultants, Inc. on 12/14/07. Survey by New York state licensed land surveyor number 050146. Horizontal datum: New York State Plane coordinate system (Long Island Zone, North American Datum (NAD)83). Vertical datum: North American Vertical Datum (NAVD) 88.

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SCALE, FEET

SUPPLEMENTAL SITE CHARACTERIZATION WORK PLAN
EAST HAMPTON HORTONSPHERE SITE
EAST HAMPTON, NEW YORK

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EXISTING AND PROPOSED SAMPLE LOCATIONS

Project 072710-2-1105 | January 2009 | Figure 2

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Appendix C

Site Photographs

GEI Consultants, Inc.

PHOTOGRAPHIC RECORD

Project: East Hampton Hortonsphere
Site Characterization
Location:: Railroad Avenue, East Hampton,
NY



Photographer: K. Barber
Date: 5/15/07
Photo No.: 1
Direction: SE

Comments:
View of Hortonsphere from Railroad Avenue.



Photographer: K. Barber
Date: 5/15/07
Photo No.: 2
Direction: E

Comments:
View of Hortonsphere and chain-link fence from Railroad Avenue.

GEI Consultants, Inc.

PHOTOGRAPHIC RECORD

Project: East Hampton Hortonsphere
Site Characterization
Location:: Railroad Avenue, East Hampton, NY



Photographer: K. Barber
Date: 5/15/07
Photo No.: 3
Direction: S

Comments:
View of electrical substations along southeastern portion of the property.



Photographer: K. Barber
Date: 5/15/07
Photo No.: 4
Direction: N

Comments:
View of dirt path that transects property. View of powerhouse to the left of the photograph.

GEI Consultants, Inc.

PHOTOGRAPHIC RECORD

Project: East Hampton Hortonsphere
Site Characterization
Location:: Railroad Avenue, East Hampton, NY



Photographer: K. Barber
Date: 5/15/07
Photo No.: 5
Direction: W

Comments:
Site vicinity. Photograph taken from site looking across (west) Fresno Place.



Photographer: K. Barber
Date: 5/15/07
Photo No.: 6
Direction: S

Comments:
Photograph taken from southwestern corner down dirt path. Photograph shows off-site restaurant in distance.

Appendix D

Sanborn Fire Insurance Maps, USGS Topographic Maps, Aerial Photographs, Hortonsphere Construction Information

"Linking Technology with Tradition"®

Sanborn® Map Report

Ship To: Lynn Willey
GEI Consultants Inc.
455 Winding Brook Drive
Glastonbury, CT 06033

Order Date: 4/9/2007 **Completion Date:** 4/10/2007
Inquiry #: 1898463.3s
P.O. #: 08901
Site Name: East Hampton Hortonsphere
Address: Race Lane/ Railroad Avenue
City/State: East Hampton, NY 11937
Cross Streets:

Customer Project: NA
1081503PVC 203-537-0751

Based on client-supplied information, fire insurance maps for the following years were identified

1909 - 1 Map
1920 - 1 Map
1929 - 1 Map
1936 - 1 Map
1943 - 1 Map

Limited Permission to Photocopy

Total Maps: 5

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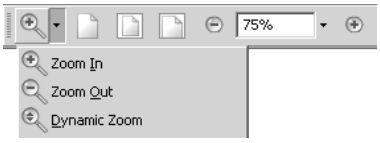
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Organization of Electronic Sanborn Image File

- Sanborn Map Report, listing years of coverage
- User's Guide
- Oldest Sanborn Map Image
- Most recent Sanborn Map Image

Navigating the Electronic Sanborn Image File

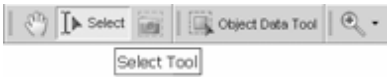


1. Open file on screen.
2. Identify TP (Target Property) on the most recent map.
3. Find TP on older printed images.
4. Using Acrobat® Reader®, zoom to 250% in order to view more clearly. (200-250% is the approximate equivalent scale of hardcopy Sanborn Maps.)
   A. On the menu bar, click "View" and then "Zoom to..."
   B. Or, use the magnifying tool and drag a box around the TP

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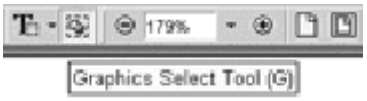
- EDR recommends printing images at 300 dpi (300 dpi prints faster than 600 dpi)
- To print only the TP area, cut and paste from Acrobat to your word processor application.

Acrobat Versions 6 and 7



1. Go to the menu bar
2. Click the "Select Tool"
3. Draw a box around the area selected
4. "Right click" on your mouse
5. Select "Copy Image to Clipboard"
6. Go to Word Processor such as Microsoft Word, paste and print.

Acrobat Version 5



1. Go to the menu bar
2. Click the "Graphics Select Tool"
3. Draw a box around the area selected
4. Go to "Menu"
5. Highlight "Edit"
6. Highlight "Copy"
7. Go to Word Processor such as Microsoft Word, paste and print.

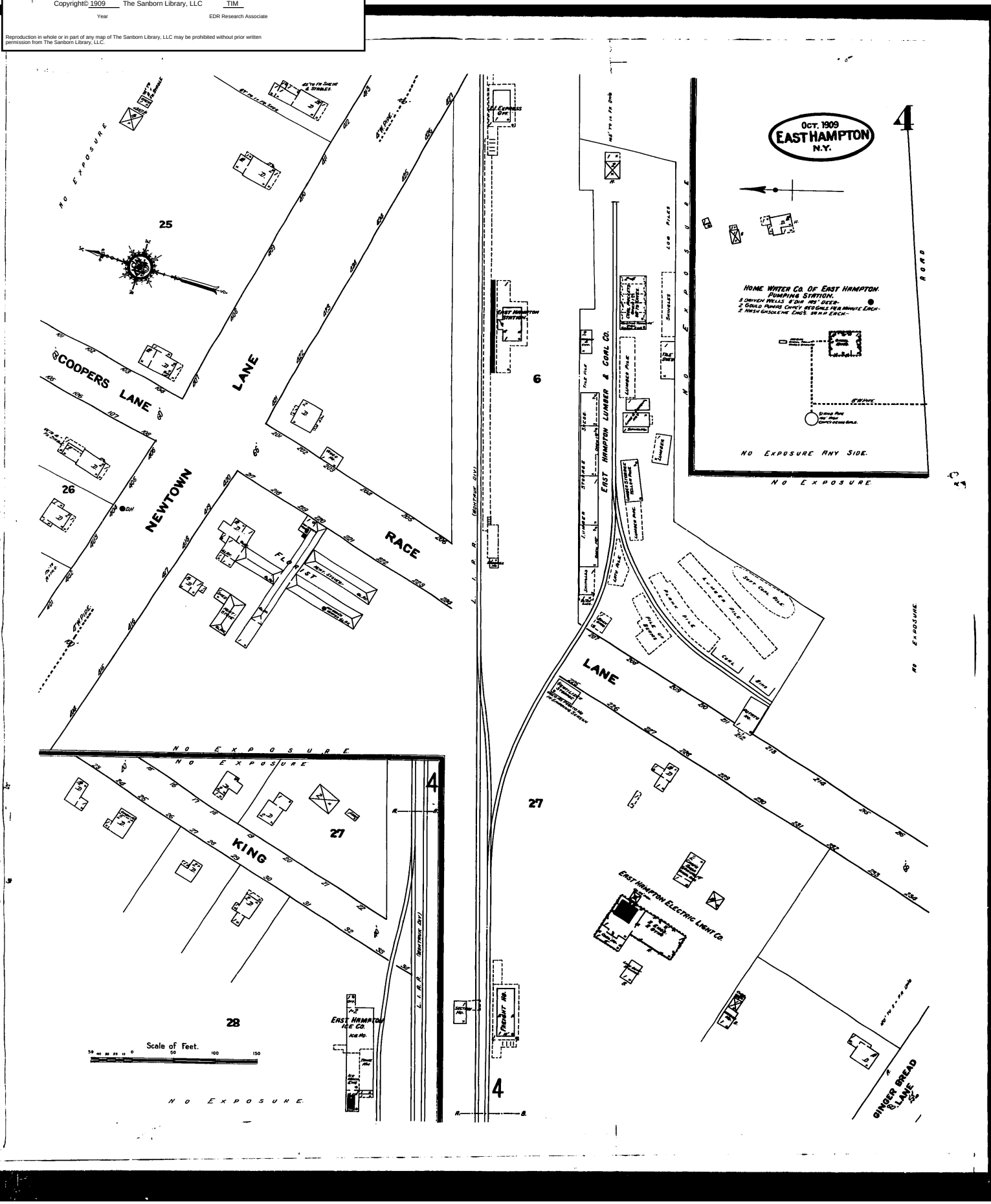
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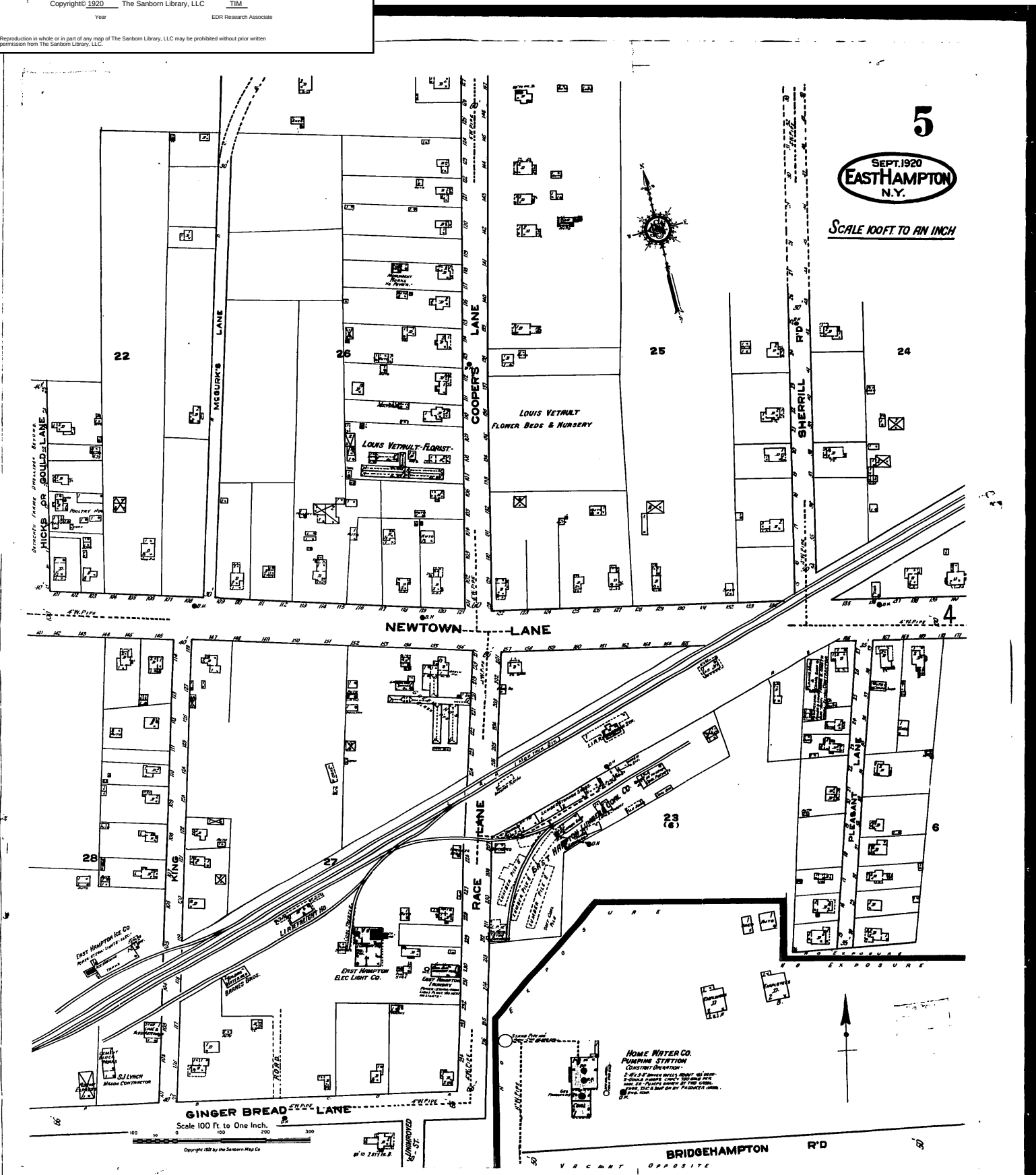
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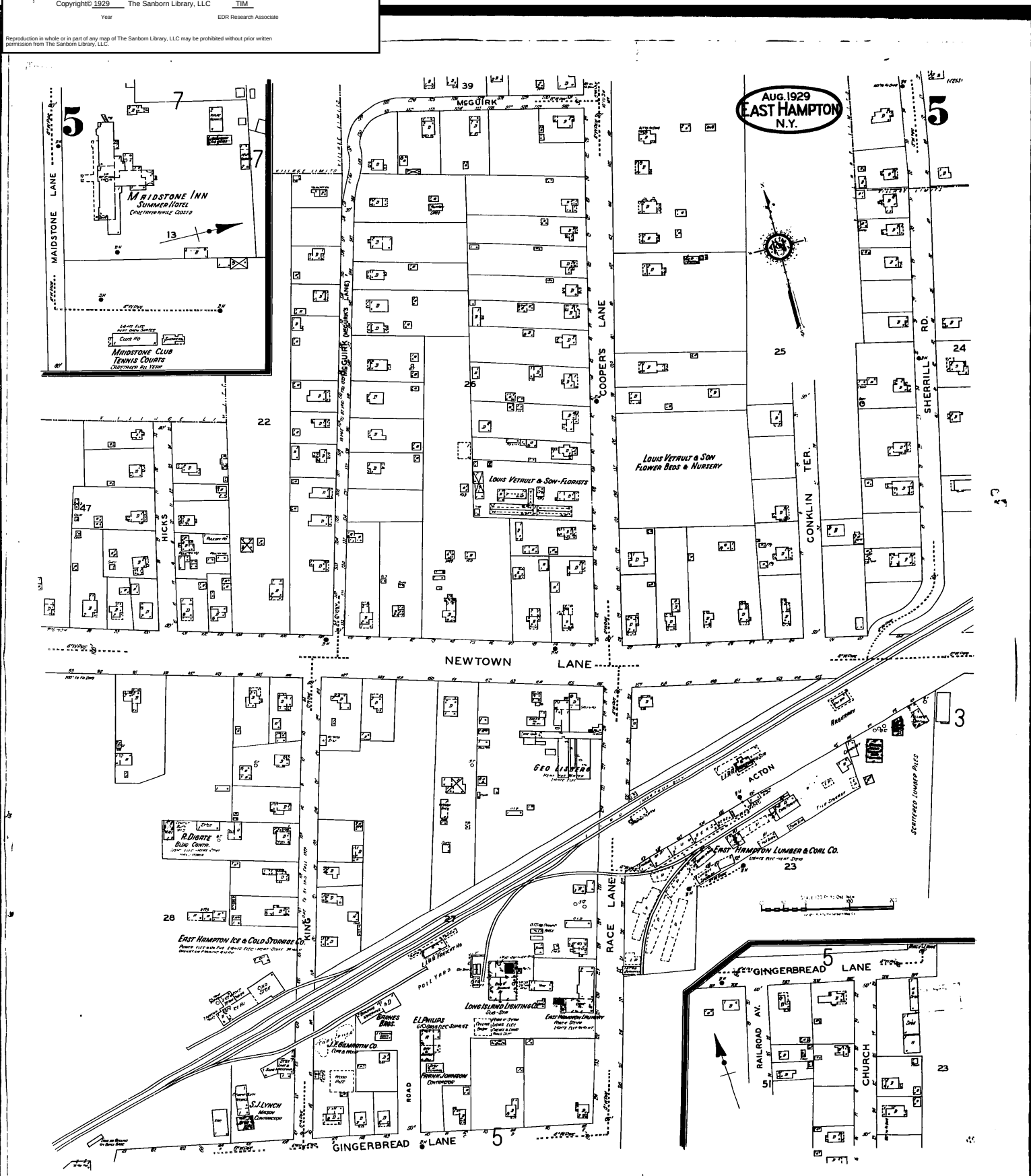
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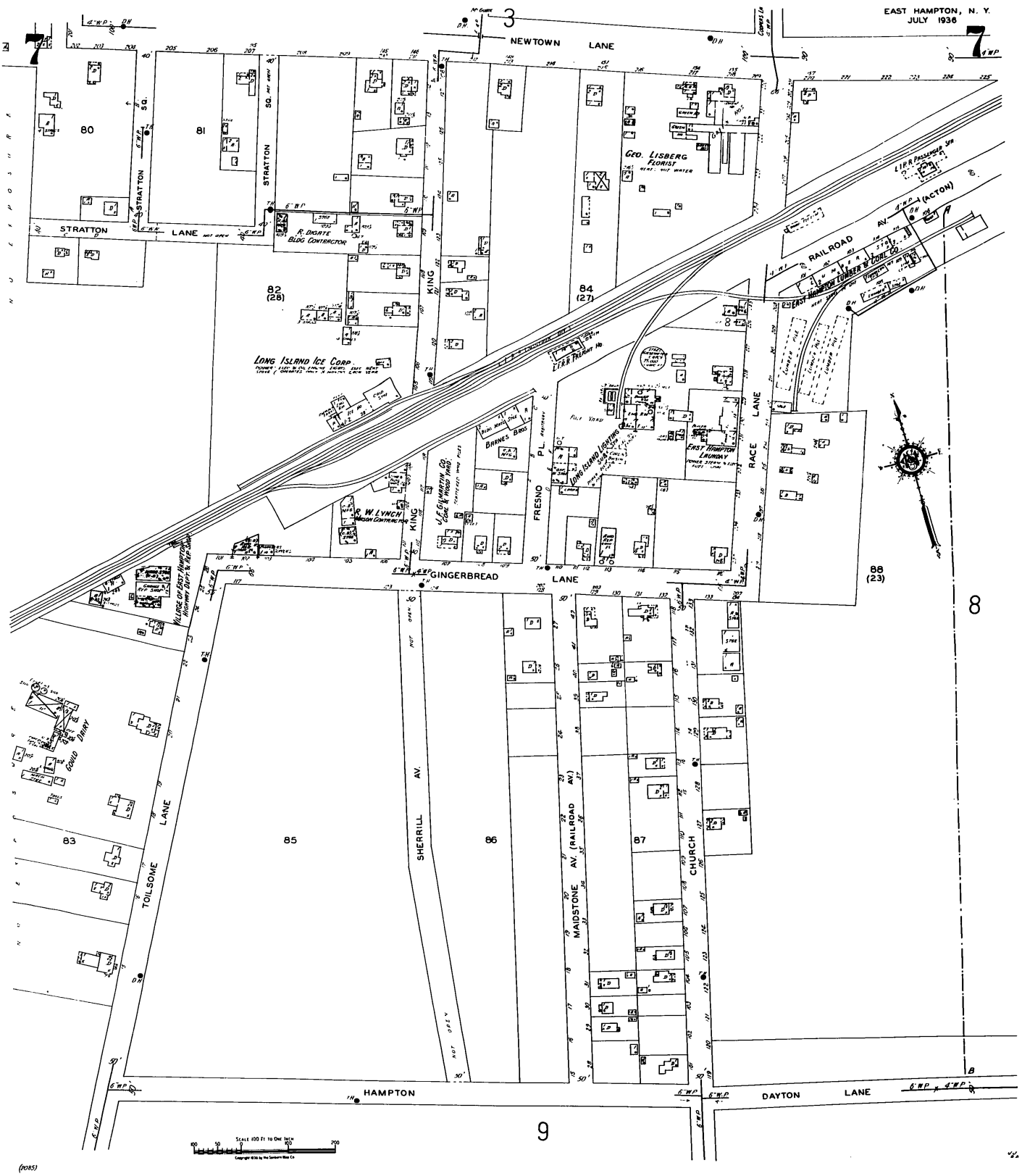


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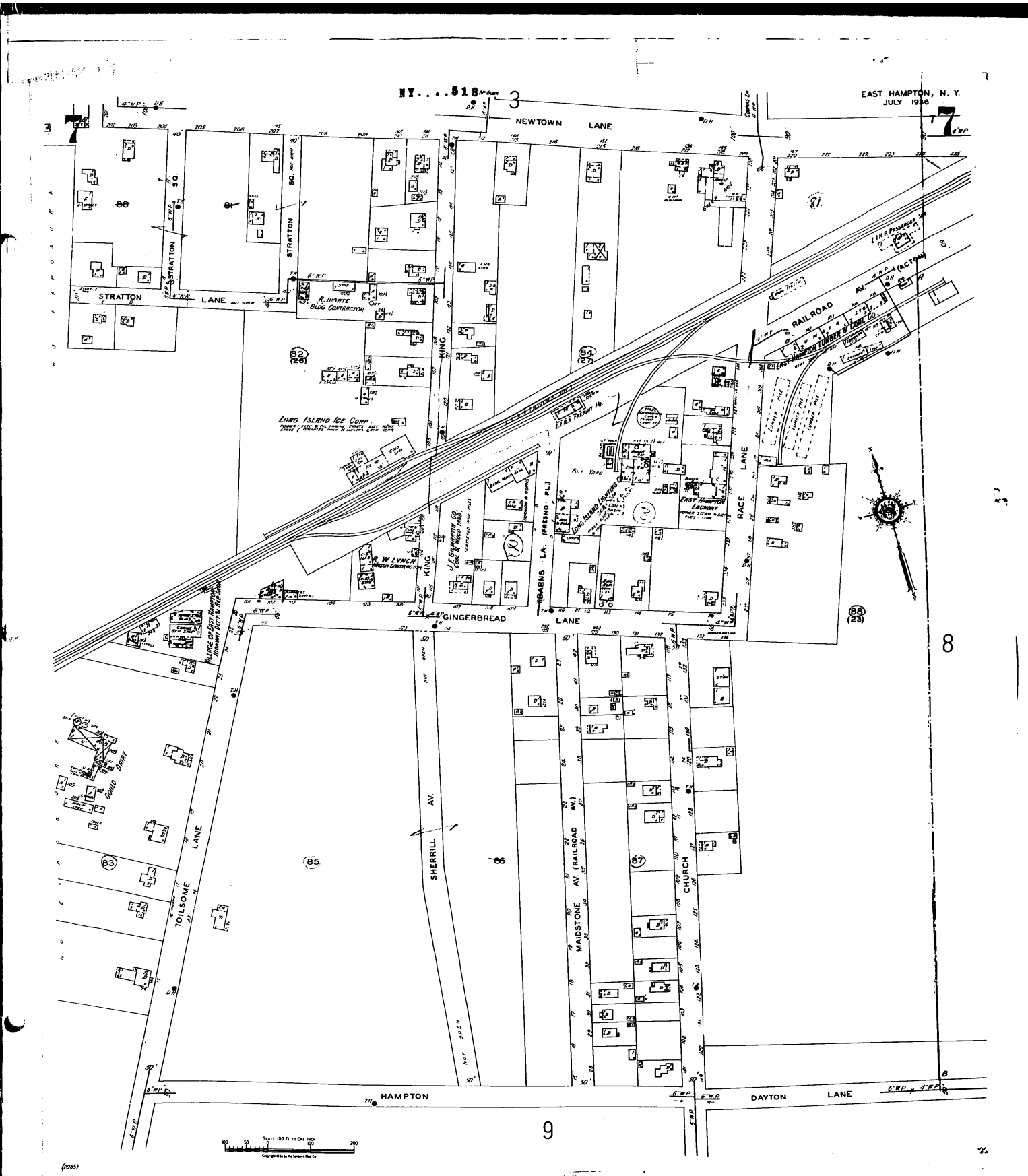




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EDR Historical Topographic Map Report

East Hampton Hortonsphere
Race Lane/ Railroad Avenue
East Hampton, NY 11937

Inquiry Number: 1898463.4

April 10, 2007

EDR® Environmental Data Resources Inc

The Standard in Environmental Risk Management Information

440 Wheelers Farms Rd
Milford, Connecticut 06461

Nationwide Customer Service

Telephone: 1-800-352-0050
Fax: 1-800-231-6802
Internet: www.edrnet.com

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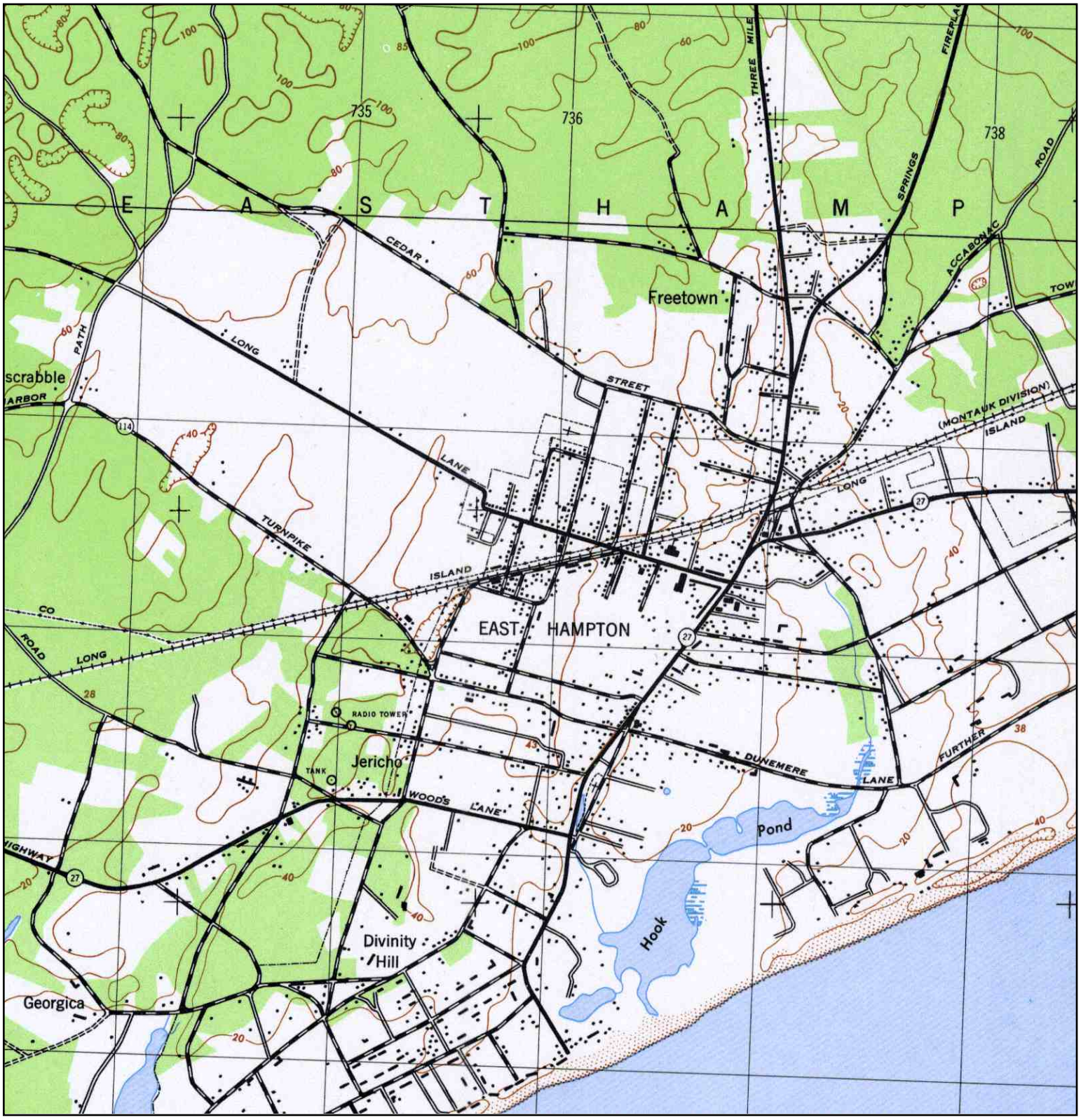
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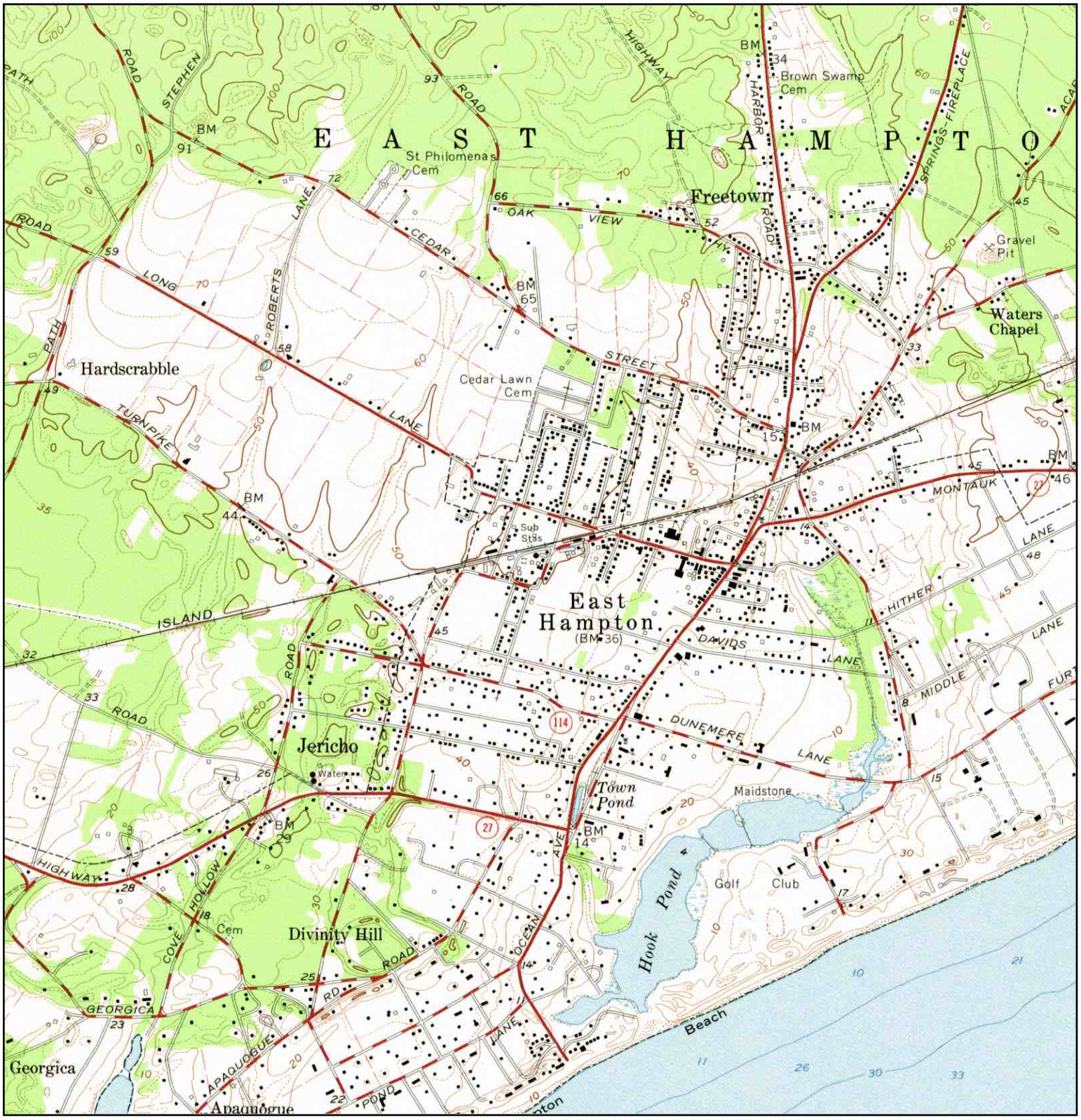
N			
	TARGET QUAD NAME: EAST HAMPTON MAP YEAR: 1943 SERIES: 7.5 SCALE: 1:25000	SITE NAME: East Hampton Hortonsphere ADDRESS: Race Lane/ Railroad Avenue East Hampton, NY 11937 LAT/LONG: 40.9644 / 72.1957	CLIENT: GEI Consultants Inc. CONTACT: Lynn Willey INQUIRY#: 1898463.4 RESEARCH DATE: 04/10/2007

Historical Topographic Map



N	TARGET QUAD NAME: EAST HAMPTON MAP YEAR: 1956 SERIES: 7.5 SCALE: 1:24000	SITE NAME: East Hampton Hortonsphere ADDRESS: Race Lane/ Railroad Avenue East Hampton, NY 11937 LAT/LONG: 40.9644 / 72.1957	CLIENT: GEI Consultants Inc. CONTACT: Lynn Willey INQUIRY#: 1898463.4 RESEARCH DATE: 04/10/2007

Historical Topographic Map



N	TARGET QUAD NAME: EAST HAMPTON MAP YEAR: 1976 PHOTOINSPECTED FROM: 1956 SERIES: 7.5 SCALE: 1:24000	SITE NAME: East Hampton Hortonsphere ADDRESS: Race Lane/ Railroad Avenue East Hampton, NY 11937 LAT/LONG: 40.9644 / 72.1957	CLIENT: GEI Consultants Inc. CONTACT: Lynn Willey INQUIRY#: 1898463.4 RESEARCH DATE: 04/10/2007

The EDR Aerial Photo Decade Package

East Hampton Hortonsphere
Race Lane/ Railroad Avenue
East Hampton, NY 11937

Inquiry Number: 1898463.5

April 10, 2007

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Date EDR Searched Historical Sources:

Aerial Photography April 10, 2007

Target Property:

Race Lane/ Railroad Avenue

East Hampton, NY 11937

Year	***Scale***	***Details***	***Source***
1957	Aerial Photograph. Scale: 1"=750'	Panel #: 2440072-H2/Flight Date: April 15, 1957	EDR
1960	Aerial Photograph. Scale: 1"=750'	Panel #: 2440072-H2/Flight Date: October 19, 1960	EDR
1980	Aerial Photograph. Scale: 1"=833'	Panel #: 2440072-H2/Flight Date: September 08, 1980	EDR
1994	Aerial Photograph. Scale: 1"=833'	Panel #: 2440072-H2/Flight Date: April 08, 1994	EDR



INQUIRY #: 1898463.5

YEAR: 1957

= 750'

N

EDR Environmental Data Resources Inc


INQUIRY #: 1898463.5
YEAR: 1960
= 750'
N
EDR Environmental Data Resources Inc


INQUIRY #: 1898463.5
YEAR: 1980
= 833'
N


INQUIRY #: 1898463.5
YEAR: 1994
= 833'
N

PARCEL 138 (LIPA)

S-PARCEL NO. 139

S-PARCEL NO. 136

LONG ISLAND RAILROAD

N. 89°08'E. 297.72'

211.21'

PRIVATE ROAD

N 31°-1'-20"E.

N 31°22'E.

53.71'

S 58-38-40E

115.00'

NO CILCO

N. 58°38'W.

N 58-38-40W 115.00

165.60

S.31°22'W.

53.71'

S 31-21-20W

53.71

N. 58°38'W.

(3) OVERHEAD LINES

(4)

SUBSTATION AREA

CONTROL HOUSE

STORAGE AREA EMPTY

(COMP. HOUSE 11.0x33')

SNUBBER

(BOOSTER HOUSE 8.0x33')

HORTON SPHERE

246.30'

ORIGINAL LEASE PROPERTY NOW OWNED by LILCO.

31-21-20

58-38-40

90-00-00

N

S. 31°22'W.

S. 58°38'E.

140.00'

ELECT & TEL

Parking Lot

275.99'

S 32°04'W. 70.00'

To Be Sold

To Dean Golden

GINGER BREAD LANE.

RACE LANE

1972

REFERENCE DRAWINGS

F. 7204

F. 3308

F. 19014

800' QUAD. # 124

TAX LOT - 301-002-1-15.1

= CURRENT - ~~as of March 2009~~ BOUNDARY

LONG ISLAND LIGHTING CO.
MINEOLA, N.Y.

EASTHAMPTON SUBSTATION AND GAS STORAGE SITE, SITUATED AT EAST HAMPTON, TOWN OF EAST HAMPTON, COUNTY OF SUFFOLK, N.Y.

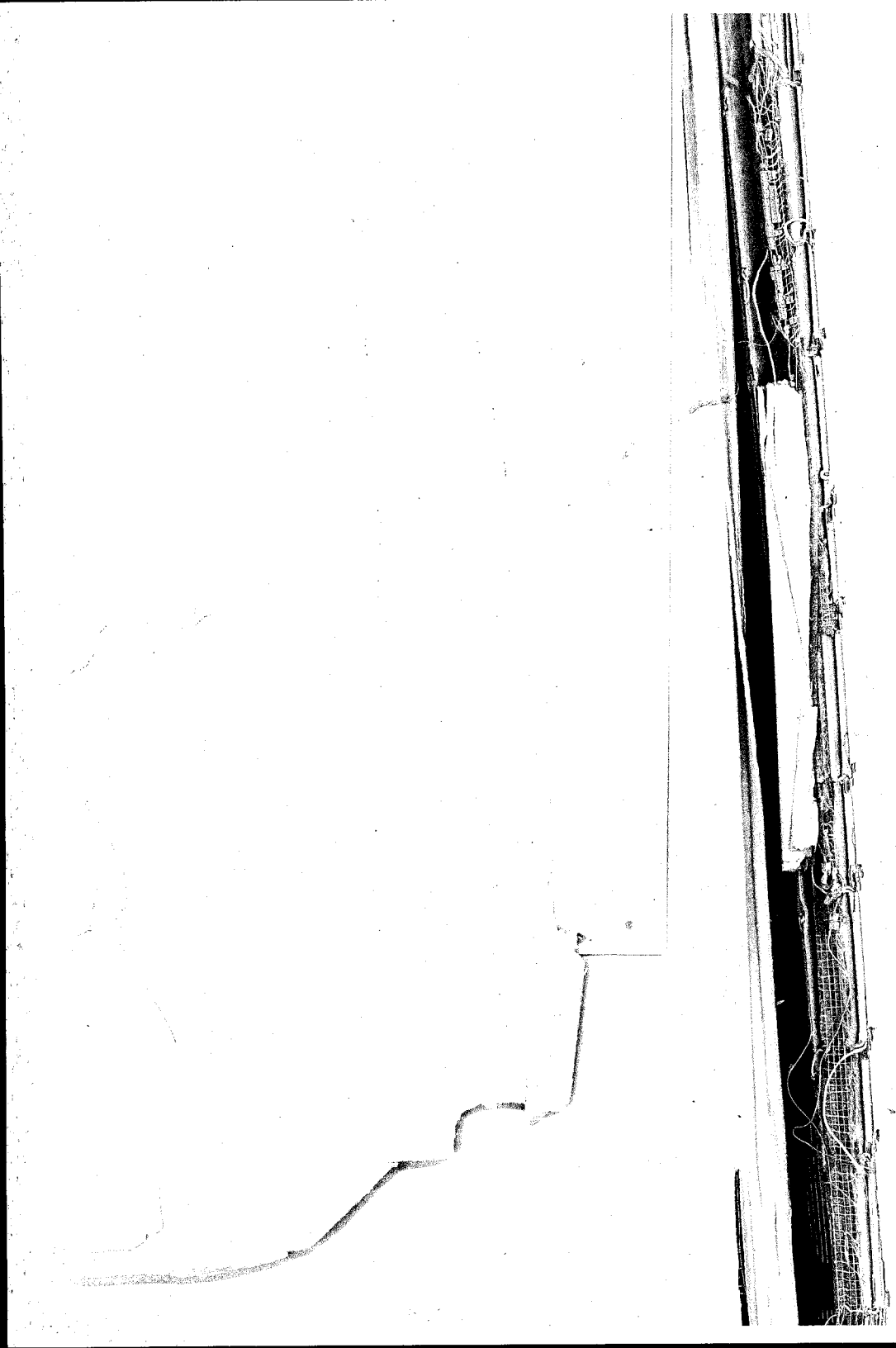
SCALE 1"=60'-0"

AREA 1.736 ACRES

10-17-72

1-73
9-68
18-66

Hortonsphere Construction Information



A TEXTBOOK OF
AMERICAN GAS PRACTICE

VOLUME TWO
DISTRIBUTION AND UTILIZATION OF CITY GAS

By

JEROME J. MORGAN, M.S., Ph.D.
ASSOCIATE PROFESSOR OF CHEMICAL ENGINEERING
COLUMBIA UNIVERSITY

With Advice and Suggestions From

A. E. FORSTALL, *Consulting Engineer*
MONTCLAIR, N. J.

J. A. PERRY, United Gas Improvement Co.
PHILADELPHIA, PA.

F. C. WEBER, *Vice-President*, The Brooklyn Union Gas Co.
BROOKLYN, N. Y.

W. S. YARD, *Vice-President*, Pacific Gas & Electric Co.
SAN FRANCISCO, CALIF.

Second Edition

Published by

JEROME J. MORGAN
MAPLEWOOD, N. J.
1935

gas into the holder when the pressure on the transmission line exceeds 14 pounds and feeds back into the line when the pressure in this drops below 10 pounds. A control switch in series stops the compressor when the holder pressure reaches 60 pounds. By means of long distance gages the operation of this automatic station can be observed by the engineer in the main plant compressor room 2 miles away.

Spherical High Pressure Gas Holders. Spherical steel tanks for the storage of gas under high pressure were introduced by the Chicago Bridge and Iron Works. They were named **Hortonspheres** after George T. Horton, president of that firm. In a paper [51] describing them, Horton has shown that it is necessary in a cylindrical tank with hemispherical ends to make the walls of the cylindrical section twice as thick as those of the hemispherical ends in order to withstand the same pressure, and that hence the weight, W, of steel for a given storage capacity, S, is smallest when the cylindrical section is of zero length, that is, when the hemispherical ends meet forming a sphere. While it is an admitted fact that the cost of construction outside of the materials is somewhat greater for the spherical form than the cylindrical form, experience shows that in spherical tanks this increase in construction costs is considerably less than the saving in steel.

An interesting relationship is that if we assume a joint efficiency of 78.5 per cent and a working stress of 13,750 pounds per square inch for the steel, which allows a factor of safety of 4, the weight, W, in pounds of the steel in the sphere, without including the weight of the joints and supports, **is equal to the storage capacity,** S, in cubic feet.

$$W = S$$

Further, the storage capacity of a given sphere varies directly with the absolute pressure, and the thickness of the walls necessary to withstand the pressure also varies directly with the absolute pressure. Hence in a given size of sphere the weight of steel increases directly with storage capacity. Again, if the pressure is kept constant, the storage capacity or volume varies with the *cube* of the radius. Now the stress, and hence the thickness of the steel to withstand a given pressure, varies *directly* with the radius, and the area to be covered with steel varies with the *square* of the radius. Hence the weight of steel to withstand a given pressure in spheres of different sizes increases with the cube of the radius or of the diameter, just the same as does the volume or storage capacity at constant pressure. Therefore, if we disregard the weight of steel in the joints and supports, the amount of **steel necessary for a given storage capacity** in spherical

high pressure tanks **is independent of the number and diameter of the spheres.** To illustrate, if we wish to store 500,000 cubic feet of gas, we might do it at 30 pounds pressure in one sphere 78 feet in diameter, in two spheres 62 feet in diameter, or in three spheres 54 feet in diameter, the volume in each of these cases being 250,000 cubic feet. The thickness of the steel necessary to withstand the 30 pound pressure would be respectively 0.64, 0.51, and 0.44 inch. We might also store 500,000 cubic feet of gas under 45 pounds pressure in one sphere 69 feet in diameter, in five spheres 40 feet in diameter, or in six spheres 37 feet in diameter. Each of these combinations gives a volume of 167,000 cubic feet. The thickness of the steel necessary in these cases to withstand the 45 pound pressure is respectively 0.85, 0.49 and 0.46 inch.

In **considering the construction,** 78 and 69 foot spheres with steel 0.64 and 0.85 inch thick would require butt strap joints, while the other spheres with steel from 0.44 to 0.51 inch could have lap joints. It will be found then that the weight of steel for the 500,000 cubic foot storage capacity would be about 45 per cent greater than the theoretical 500,000 pounds for the spheres which require butt strap joints and about 35 per cent greater for those with lap joints. Horton finds the maximum economy is obtained with steel of $\frac{7}{16}$ to $\frac{9}{16}$ inch in thickness. With this material the cost for a given storage in various sizes and numbers of spheres does not vary more than 10 per cent. This permits a great **flexibility in the erection of these holders,** allowing them to be built in sizes and numbers that best suit the conditions of the available sites and at different times to suit the need of storage capacity. These holders are also fabricated with butt welded joints which reduces the amount of steel required to approximately the theoretical figure above mentioned.[52] For a more detailed discussion of design problems in connection with these holders reference should be made to Horton's paper [51] and to the article by Milbourne.[53] Figure 27 illustrates a Hortonsphere erected for the Long Island Lighting Co. at Farmingdale, New York. It is 57 feet 6 inches in diameter and is designed to store 400,000 cubic feet of gas at 60 pounds gage pressure.

These holders also have the **advantage of requiring only moderate foundations.** On account of their shape and the fact that gas pressure within tends to keep them spherical, slight settling of the foundations is not serious. Since there are no moving parts and no liquid seals, they require practically no attention, and their maintenance is small. These advantages, together with the fact that a sphere painted with

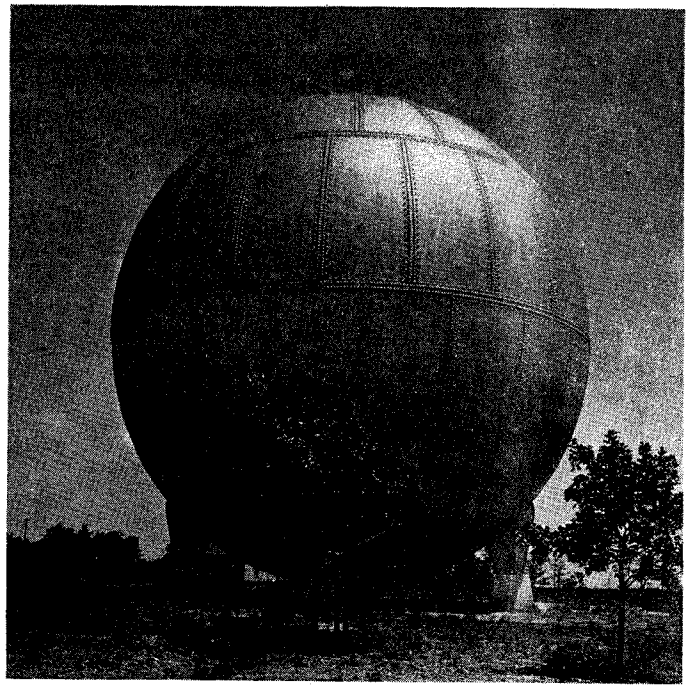


FIG. 27. Hortonsphere High Pressure Gas Holder, 57.5 feet in Diameter. (Courtesy of Chicago Bridge & Iron Works, Chicago, Ill.)

aluminum or a suitable colored paint may be **easily made to harmonize with the landscape,** make the Hortonsphere especially adapted to use for outlying holders in residential districts. Figure 28 shows how well one of these holders, which is 40 feet in diameter and stores 135,000 cubic feet of gas at 60 pounds pressure, blends with the surroundings.

Purging of High Pressure Holders. In the purging of high pressure holders there are no moving parts and no sealing liquids to complicate matters. The purging is therefore only a matter of replacing the gas content of a closed container. Figure 29 shows the principal **connections to be made for purging** horizontal cylindrical and spherical high pressure holders. The connections for a vertical cylindrical holder are similar to those for a spherical holder. In addition test cocks should be provided around the spherical or vertical cylindrical holder about one-third of its vertical height from the top, and at points on the top of the horizontal holder at maximum distances from the standard vent or vents. In the removal of a holder from service



FIG. 28. Hortonsphere High Pressure Gas Holder, 40 feet in Diameter, Blends Well with Background. (Courtesy of Chicago Bridge & Iron Works, Chicago, Ill.)

any oil present must be drawn off and the gas pressure reduced to about 6 inches water gage before purging operations are begun. With these exceptions the principles of purging of these holders may be easily inferred from our discussion of purging low pressure holders. Exact **details of operation** are given in the procedure recommended by the American Gas Association [19] and this should be consulted previous to any attempt to purge such holders.

Underground Storage of Gas. Natural gas occurs, as we have already indicated,[1] stored under pressure in the pores of the so-called gas sands. These are really sedimentary rocks which have a porosity averaging from 8 to 22 per cent, although sands with a porosity up to 35 per cent are known. In its occurrence the natural gas is stored in the pores of the rock either alone under high pressures, or dissolved

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Appendix E

Review of Long Island Gas Manufacture and Distribution (1907-1950)

Review of Long Island Gas Manufacture and Distribution (1907 – 1950)

Submitted to:

National Grid
175 East Old County Road
Hicksville, NY 11801

Submitted by:

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April 2009
Revised October 2009

Dennis Unites
Sr. Vice President

Introduction

GEI Consultants, Inc. (GEI) has conducted a review of the history of the Long Island Lighting Company (LILCO) to provide a better understanding of the manufactured gas operations and distribution. The primary objective of the review has been to determine the location of gas manufacturing plants and, secondarily, to understand the part played by the Hortonspheres in the distribution system. GEI has reviewed previously published corporate histories, the history of the MGP operations produced by Atlantic Environmental Services, Inc., (1996), annual reports on the file in the New York State Archives, and Public Service Commission (PSC) annual reports provided by National Grid. Given the passage of time, change of companies from year to year, and older recordkeeping methodologies, research is difficult and information about each location is a function of those documents that could be located.

Since 1907, utilities in New York have been required to file annual reports with the PSC. These reports have changed in format over the years, but generally require a summary of ownership, finance, and operation of the utility for the reporting year. They include a listing of major capital equipment such as gas manufacturing plants, storage tanks and gas transmission lines. While these are company prepared reports, they were subject to audit by the public service commission.

The history of LILCO is one of financial and operational consolidation that mirrored the utility industry in the rest of the United States. The period from 1910 through 1932 saw the consolidation of many small gas and electric companies into large holding companies of national or even international scope. At the same time, gas and electric generation was moving away from a model of small operations close to the energy users to larger more centralized facilities with distribution to the centers of usage.

The Long Island Lighting Company

LILCO was incorporated on December 31, 1910 as a consolidation of Amityville Electric Light Co., Islip Electric Light Co., Northport Electric Light Co., and Sayville Electric Co.[1] All of these companies sold electricity exclusively; however, Islip used a producer gas engine for generation.[2] Subsequently, the company acquired by purchase or merger, the following companies listed in Table 1, below.

Table 1
Companies Acquired by
The Long Island Lighting Company

Company	Year Acquired
Babylon Electric Light Co.	1915
Suffolk Gas & Electric Light Co.	1917
South Shore Gas Co.*	1917

[1] Moody's, 1995. p. 670.
[2] Carpenter, [n.d.]. p73

Table 1 (Continued) Companies Acquired by The Long Island Lighting Company	
Company	**Year Acquired**
Huntington Light & Power Co.	1919
Huntington Gas Co.*	1919
North Shore Electric Light & Power Co.	1919
Consumers Gas Co. of Long Island	1922
Riverhead Electric Light Co.	1922
Southold Lighting Co.*	1922
Suffolk Light, Heat & Power Co.	1922
Nassau Light & Power Co.	1922
Long Island Gas Corp.*	1924
Patchogue Gas Co.*	1924
Sag Harbor Electric Light & Power Co.	1924
Sea Cliff and Glen Cove Gas Co.*	1924
East Hampton Electric Light Co.	1926
Public Service Corp. of Long Island	1927
Clinton Gas Co.*	1930
Liland Corp.	1933
Queens Borough Gas & Electric Co.*	1950
Nassau & Suffolk Lighting Co.*	1950
Long Beach Gas Co., Inc.	1950
Shelter Island Light & Power Co.	1959
Patchogue Electric Light Co.	1964

* indicates companies with gas manufacturing operations.

Queens Borough Gas & Electric and Nassau & Suffolk Lighting were consolidated into LILCO in 1950; however, LILCO had controlling interest in these operating companies since 1923.

Gas Manufacture and Distribution

In the beginning of the manufactured gas era, gas was manufactured in small plants close to where it was used. Table 2 lists the original gas works that later made up the LILCO system. Over LILCO's history, these local gas manufacturing companies were consolidated into three operating companies:

Nassau & Suffolk Lighting Company, Queens Borough Gas and Electric Company, and Long Island Lighting Company. Figure 1 shows the growth of the system. The following sections provide a brief history of each of the operating companies.

Table 2
Gas Plants in the LILCO Holding Company System

Gas plant	Years of Operation	Operating Company
Sag Harbor	1859-1928[3]	LILCO predecessor
Garden City	1874?--1906(?)	Nassau & Suffolk predecessor
Babylon	1884-1904(?)	LILCO predecessor
Hempstead Clinton	1860-1904	Nassau & Suffolk predecessor
Hempstead Intersection Street	1904-1950s	Nassau & Suffolk
Rockaway	1880-1950s	Queens Borough Gas and Electric
Far Rockaway	1895-1904(?)	Queens Borough Gas and Electric predecessor
Huntington (Halesite)	1893-1925[4]	LILCO
Glen Cove	1904-1927[5]	LILCO
Bay Shore	1889-1970s	LILCO
Southold	1906-1921	LILCO predecessor
Clinton (East Hampton)	1904-1930	LILCO predecessor
Patchogue	1904-1914[6]	LILCO predecessor

[3] Last gas reported made February 1928. An auditor's note in the 1934 report indicates no manufacture after October 1932 for Huntington, Patchogue, Sag Harbor and Glen Cove.
[4] Last reported gas manufacture 1925.
[5] After 1926 PSC records show all gas purchased from Public Service of Long Island.
[6] PSC reports show no significant gas manufacture after 1914.

Nassau & Suffolk Lighting Company

One of the earliest manufacturers of gas in Nassau & Suffolk Counties occurred at the Clinton Street plant which was later to become part of the Nassau & Suffolk Lighting Company system. In all, three gas works operated in the company's territory. On January 23, 1860, gas was first produced in Hempstead at a plant constructed on the east side of Clinton Street, just north of Front Street.[7] The plant operated until circa 1904 when it was apparently replaced by the plant at Intersection Street. [8] The Garden City gas works, the third plant, was acquired in 1906. Gas was produced only at the Hempstead Intersection Street facility after 1906 until the system was converted to natural gas in the 1950s.

In addition to gas storage at the manufactured gas plant, gas was stored at the Stewart Avenue holder station, constructed in 1929 and the Bellmore Hortonsphere, put into service in 1928.

Because of its location, Nassau & Suffolk served as a "middleman" in the LILCO system in the later years of gas manufacturing. It purchased large volumes of gas from Queens Borough Gas and Electric and sold large volumes to LILCO. Table 3 provides Nassau & Suffolk Intra-Company gas sales for selected years. Note that both Public Service Company of Long Island and Long Beach Gas Company were solely distribution companies, which only purchased gas throughout their corporate histories.

Table 3
Nassau & Suffolk Annual Intra Company Gas Sales

Year	Sold to	Volume (mmcf)*	Purchased from	Volume (mmcf)*	Gas Made at Plant (mmcf)*
1915	Public Service Corp of LI	32		None	226
	Long Beach Gas Co.	339mcf			
1920	Public Service Corp of LI	131	Southshore Gas Co.	66mcf	512
	Long Beach Gas Co.	15			
	Masapequa Gas Electric Light & Power	413mcf			
1925	Public Service Corp of LI	233	LILCO	120mcf	846
	Long Beach Gas Co.	73			
	Masapequa Gas Electric Light & Power	2			
1930	LILCO	754	LILCO	30mcf	864
			Queens Borough Gas and Electric	964	
1935	LILCO	807	Queens Borough Gas and Electric	1082	794
1940	LILCO	1380	Queens Borough Gas and Electric	1769	1003

* mmcf = million cubic feet, mcf = thousand cubic feet

[7] Carpenter,[n.d.]. P. 4.
[8] Atlantic Environmental Services, Inc., 1996. P. 4-11.

Queens Borough Gas and Electric Company

Queens Borough Gas and Electric was made up of a number of small companies which went through several changes of ownership prior to the formation of Queens Borough Gas and Electric in 1902. There were two plants - Rockaway and Far Rockaway.

The first works was built in Rockaway in 1880 but did not appear to begin production until 1894.[9] A second works operated in Far Rockaway from 1895[10] until some time prior to 1908. PSC records for 1908 show the existence of the Far Rockaway works but do not indicate any production. Production at these works is not noted in subsequent reports.

Off plant gas storage facilities in the Queens Borough system were the Lynbrook Holder, a water sealed holder constructed in 1904 and decommissioned in 1932[11] and the Inwood holder, a large water sealed holder constructed in 1924.[12]

The Rockaway plant was used as a source of gas for much of the LILCO system. From the late 1920s onward, roughly half of the gas produced was sold to affiliated companies, primarily Long Beach Gas and Nassau & Suffolk. Based on Nassau and Suffolk records, it is likely that some of this gas was further sold into the LILCO distribution system. Table 4 provides a listing of selected intra company sales. 1924 was selected as the starting date because of gaps in the available PSC records.

Table 4
Queens Borough Gas and Electric Intra Company Sales

Year	Sold to	Volume (mmcf)*	Purchased from	Volume (mmcf)*	Gas Made at Plant (mmcf)*
1924		None		None	1082
1930	Nassau &Suffolk Lighting	964			2593
	Long Beach Gas Co.	188			
1935	Nassau & Suffolk Lighting	1082			2469
	Long Beach Gas Co.	156			
1940	Nassau & Suffolk Lighting	1769			3470
	Long Beach Gas Co.	177			
1945	Nassau & Suffolk Lighting	2000			3967
	Long Beach Gas Co.	236			
1945	Nassau	2000			3967

* mmcf = million cubic feet, mcf = thousand cubic feet

[9] Carpenter, [n.d.]. Pp. 37-43.
[10] Carpenter, [n.d.] P 43.
[11] PSC 1932 auditors note.
[12] PSC 1924.

Long Island Lighting Company

The Long Island Lighting Company (LILCO) name was used for both the overall holding company and the operating company which provided gas and electric services to the eastern part of the service area. It was of greater geographic extent than the other two holding companies and has a more complex history of consolidation.

South Shore Gas Company was the first gas holding incorporated into the LILCO holding company and operating company in 1917. This company owned plants in (West) Babylon and Bay Shore. The Babylon plant apparently had ceased general production prior to 1907 (when PSC reporting began), as the plant is shown as part of the capital equipment but no production records are provided.

A third plant, Halesite, was added to the system in 1919 when LILCO acquired the Huntington Gas Company. This plant operated until 1925. An auditor's note in the 1934 PSC report indicated that this plant and three others had ceased making gas in October of 1932. This note appears to indicate that subsequent to 1932 they were no longer used as a standby reserve.

Southold Lighting Company was acquired along with the Southold acetylene plant in 1922.

The Patchogue, Glen Cove, and Sag Harbor Plants were added to the system in 1924 with the acquisition of Patchogue Gas Company, Sea Cliff and Glen Cove Gas Company and the Long Island Gas Company respectively. In the case of Patchogue, regular gas manufacture had essentially ceased around 1914 and gas was purchased from a LILCO subsidiary. Glen Cove and Sag Harbor ceased regular manufacture within a few years of purchase. All three of these plants were the subject of the 1934 auditor's note that indicated no gas manufactured after October 1932.

The acquisition in 1930 of the Clinton Gas Company and its gasoline vaporization works in East Hampton was the final purchase of a gas plant. Operations at all of the ancillary plants had ceased by 1932. By then, all gas was either provided from the Bay Shore plant or purchased from the other operating companies.

The distribution system for the LILCO system was complex as befits the large geographic extent of the companies. Water sealed holders, at active or inactive plants, made up one part of the distribution system. The 1930 PSC report shows holders at: Bay Shore, Huntington, Sag Harbor, Patchogue and, Glen Cove.

High pressure tanks constructed between 1918 and 1928 also provided storage for the distribution system. The 1935 PSC report shows a total of 47 such tanks located in: Amityville (5), Sayville (3), Huntington (10), Patchogue (7), Northport (3), Southampton (3), Sag Harbor (3), Hicksville (5), and Glen Cove (8). These holders were horizontal cylinders. One point of potential confusion is that several of these storage sites, which have no history of gas manufacture, are shown on some Sanborn maps as "Electric and Gas Plants" (see for example, Amityville).

Hortonspheres also provided high pressure storage. Nine of these were constructed and incorporated in the system between 1927 and 1931. The 1935 PSC report shows the following: Farmingdale (1927), Huntington (1928), Patchogue (1927), Port Jefferson (1930), East Hampton (1930), Sag Harbor (1931), Glen Cove (1927), Manhasset (1929), and Oyster Bay (1930).

During the earlier years, LILCO was a small net exporter of gas (Table 5), selling to Patchogue Gas and Nassau & Suffolk Lighting. After 1930, its exports were limited, and some years more gas was imported than was produced at Bay Shore. In 1935 there was an inter company purchase as a relatively small amount of gas was purchased from Nassau and Queens Gas Company, A Consolidated Edison subsidiary.

Table 5
LILCO Intra Company Sales

Date	Sold to	Volume (mmcf)*	Purchased from	Volume (mmcf)*	Gas Made at plants (mmcf)*
1915		None		None	None
1920	Patchogue Gas Co.	30		None	169 Bay Shore 17 Huntington
	Nassau & Suffolk Lighting Co.	77mcf			
1925	Patchogue Gas Co.	50			364 Bay Shore 31 Huntington
	Nassau & Suffolk Lighting Co.	103 mcf			
1930	Patchogue Gas Co.	32			882 Bay Shore
	Nassau & Suffolk Lighting Co.	31 mcf	Nassau & Suffolk Lighting Co.	513	
1935			Nassau & Suffolk Lighting Co.	807	888 Bay Shore
			New York and Queens Gas co.	116mcf	
1940			Nassau & Suffolk Lighting Co.	1380	1254 Bay Shore
1945			Nassau & Suffolk Lighting Co.	1511	2011 Bay Shore

* mmcf = one million cubic feet, mcf = one thousand cubic feet

Conclusions

The history of LILCO was one of consolidation of gas companies and smaller plants. Based on a review of the PSC records, thirteen gas plants were identified as operating in the early 1900s. By 1930, these had been reduced to three main plants: Rockaway, Hempstead Intersection Street, and Bay Shore. The Hortonspheres were part of the distribution system and, except for Glen Cove, Sag Harbor, Patchogue and Huntington, they were built away from existing gas plants.

Figure 2 provides a layout of the entire system at the maximum extent of gas manufacturing in 1950. The Riverhead gas cracking facility apparently began production in 1948. The figure does not depict the

Glenwood gas cracking facility which was constructed by 1949, perhaps because it did not actually go on-line until sometime in 1951.

As to the source of gas for any particular Hortonsphere, one can assume that most of the time the gas would have been supplied by that operating company's base load plant.

That is, Hempstead would have supplied Bellmore, and Bay Shore would have supplied the rest. However, considering the intra company sales and purchase and the internal links of the distribution system, any Hortonsphere could have been supplied by any plant.

The approach used has a number of limitations. The archives do not have records for all of the companies that ultimately were merged or acquired by the LILCO holding company. Saltaire did not appear in any of the PSC reports. The information about each location is also limited. While the Hortonspheres are identified in the capital equipment lists, there is not any other information provided about the Hortonsphere locations. These limitations notwithstanding, the available information provides a better insight into the history and operation of the system.

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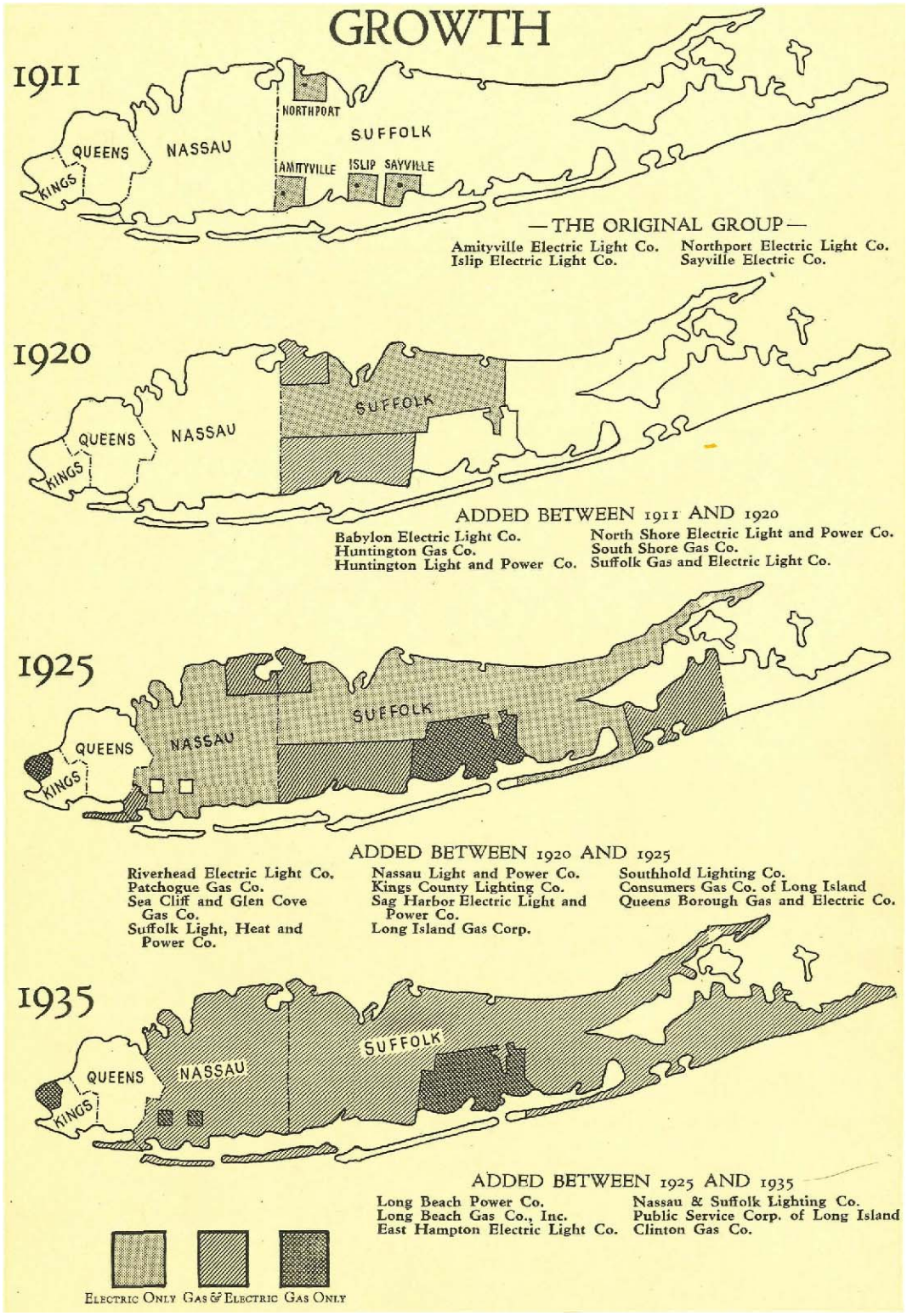
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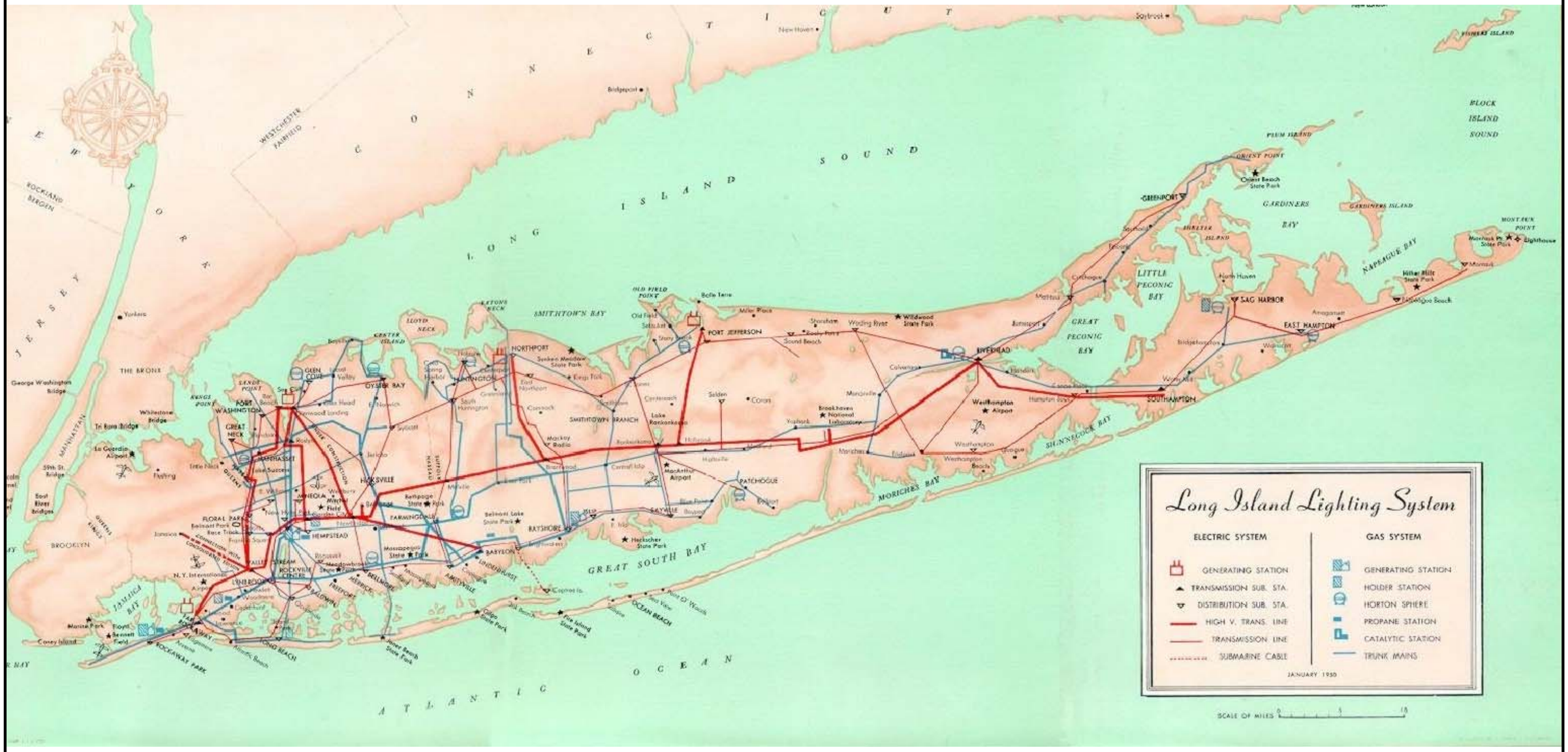


SOURCE:

TWENTY FIVE YEARS OF THE LONG ISLAND LIGHTING SYSTEM 1911 - 1936, BY THE LONG ISLAND LIGHTING SYSTEM ©1936, PAGE 17.

LILCO PSC REVIEW LONG ISLAND, NEW YORK	GEI Consultants	**GROWTH OF THE LILCO SYSTEM**
nationalgrid	Project 090230	March 2009 Figure 1

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LILCO PSC REVIEW LONG ISLAND, NEW YORK	GEI Consultants	**1950 SYSTEM CONFIGURATION**	
nationalgrid	Project 090230	March 2009	Figure 2

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Appendix F

Soil Boring Logs

GEI Consultants, Inc.
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Glastonbury, CT 06033
(860) 368-5300

CLIENT: KeySpan
PROJECT NAME: East Hampton SC
CITY/STATE: East Hampton, New York
GEI PROJECT NUMBER: 072710-2-1102

BORING LOG
PAGE 1 of 3
EHS-GP-01

GROUND SURFACE ELEVATION (FT): 51.29 **LOCATION:** North of Hortonsphere
NORTHING: 295774.1416 **EASTING:** 1482530.992 **TOTAL DEPTH (FT):** 55.00
DRILLED BY: Fenley & Nicol Environmental, Inc. / Kevin Kegel **DATUM VERT. / HORZ.:**
LOGGED BY: Michael Williams & Chris Berotti **DATE START / END:** 11/13/2007 - 11/13/2007
DRILLING DETAILS: Geoprobe
WATER LEVEL DEPTHS (FT): ▽ 44.00

DEPTH FT.	SAMPLE INFO TYPE and NO.	PEN FT.	REC IN.	PID (ppm)	STRATA	ANALYZED SAMPLE ID	SOIL / BEDROCK DESCRIPTION
0		7.0					0 - 1 Topsoil and grass, HAND CLEARED. 1 - 7 SANDY SILT (ML); ~75% silt, ~20% fine sand, ~5% gravel, max. size 1.5 in., dry, dark brown to light brown, loose, 1 to 2 feet bgs dark brown with coal chips, HAND CLEARED.
5				0		EHS-GP-01 (4-5)	
	S-1	3.0	56	0			7 - 10 WIDELY GRADED SAND (SW); ~85% sand; ~5% fine to coarse gravel, ~10% fines, max. size 1.25 in., dry, brown to light brown, loose.
10	S-2	5.0	50				10 - 15 WIDELY GRADED SAND (SW); ~80% sand; ~15% fine to coarse gravel, ~5% fines, max. size 1 in., dry, light brown, loose.
15	S-3	5.0	38	0			15 - 20 WIDELY GRADED SAND (SW); ~90% sand; layered, ~5% fine to coarse gravel, ~5% fines, max. size 0.75 in., dry, brown to light brown, loose.
20	S-4	5.0	31				20 - 25 WIDELY GRADED SAND WITH GRAVEL (SW); ~70% sand; ~25% fine to coarse gravel, ~5% fines, max. size 1 in., dry, light brown, loose.

NOTES:

PEN = PENETRATION LENGTH OF SAMPLER OR CORE BARREL
REC = RECOVERY LENGTH OF SAMPLE
PID = PHOTOIONIZATION DETECTOR READING (JAR HEADSPACE)
ppm = PARTS PER MILLION
IN. = INCHES
FT. = FEET
NLO = NAPHTHALENE LIKE ODOR
PLO = PETROLEUM LIKE ODOR
TLO = TAR LIKE ODOR
CLO = CHEMICAL LIKE ODOR
ALO = ASPHALT LIKE ODOR
CrLO= CREOSOTE LIKE ODOR
OLO = ORGANIC LIKE ODOR
SLO = SULFUR LIKE ODOR
MLO = MUSTY LIKE ODOR

ENVIRONMENTAL BORING LOG EAST HAMPTON SC BORING LOGS.GPJ GEI CONSULTANTS.GDT 1/29/08

GEI Consultants

GEI Consultants, Inc.
455 Winding Brook Road
Glastonbury, CT 06033
(860) 368-5300

CLIENT: KeySpan
PROJECT NAME: East Hampton SC
CITY/STATE: East Hampton, New York
GEI PROJECT NUMBER: 072710-2-1102

BORING LOG

EHS-GP-01

DEPTH FT.	SAMPLE INFO TYPE and NO.	PEN FT.	REC IN.	PID (ppm)	STRATA	ANALYZED SAMPLE ID	SOIL / BEDROCK DESCRIPTION
				0			
25	S-5	5.0	12				25 - 30 WIDELY GRADED SAND (SW); ~85% sand; ~10% fine to coarse gravel, ~5% fines, max. size 0.75 in., dry, orange, loose.
30	S-6	5.0	29				30 - 35 WIDELY GRADED SAND (SW); ~85% sand; ~10% fine to coarse gravel, ~5% fines, max. size 1.5 in., dry, tan, loose.
35	S-7	5.0	38	0			35 - 40 WIDELY GRADED SAND (SW); ~90% sand; layered, ~5% fine to coarse gravel, ~5% fines, max. size 2 in., dry, tan to orange, loose.
40	S-8	5.0	29	0		EHS-GP-01 (44-45)	40 - 45 WIDELY GRADED SAND WITH GRAVEL (SW); ~70% sand; ~25% fine to coarse gravel, ~5% fines, max. size 1.5 in., wet, tan, loose; wet at 44' bgs.
45	S-9	5.0	21	0			45 - 50 WIDELY GRADED SAND (SW); ~85% sand; ~10% fine to coarse gravel, ~5% fines, max. size 1.5 in., wet, brown to tan, loose.
50	S-10	5.0	0				50 - 55 NO RECOVERY.

NOTES:

PEN = PENETRATION LENGTH OF SAMPLER OR CORE BARREL
REC = RECOVERY LENGTH OF SAMPLE
PID = PHOTOIONIZATION DETECTOR READING (JAR HEADSPACE)
ppm = PARTS PER MILLION
IN. = INCHES
FT. = FEET
NLO = NAPHTHALENE LIKE ODOR
PLO = PETROLEUM LIKE ODOR
TLO = TAR LIKE ODOR
CLO = CHEMICAL LIKE ODOR
ALO = ASPHALT LIKE ODOR
CrLO= CREOSOTE LIKE ODOR
OLO = ORGANIC LIKE ODOR
SLO = SULFUR LIKE ODOR
MLO = MUSTY LIKE ODOR

ENVIRONMENTAL BORING LOG EAST HAMPTON SC BORING LOGS.GPJ GEI CONSULTANTS.GDT 1/29/08

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CLIENT: KeySpan
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BORING LOG

EHS-GP-01

DEPTH FT.	SAMPLE INFO: TYPE and NO.	SAMPLE INFO: PEN FT.	SAMPLE INFO: REC IN.	SAMPLE INFO: PID (ppm)	STRATA	ANALYZED SAMPLE ID	SOIL / BEDROCK DESCRIPTION
55							Bottom of borehole at 55.0 feet.

NOTES:

PEN = PENETRATION LENGTH OF SAMPLER OR CORE BARREL
REC = RECOVERY LENGTH OF SAMPLE
PID = PHOTOIONIZATION DETECTOR READING (JAR HEADSPACE)

ppm = PARTS PER MILLION
IN. = INCHES
FT. = FEET

NLO = NAPHTHALENE LIKE ODOR
PLO = PETROLEUM LIKE ODOR
TLO = TAR LIKE ODOR
CLO = CHEMICAL LIKE ODOR
ALO = ASPHALT LIKE ODOR

CrLO= CREOSOTE LIKE ODOR
OLO = ORGANIC LIKE ODOR
SLO = SULFUR LIKE ODOR
MLO = MUSTY LIKE ODOR

ENVIRONMENTAL BORING LOG EAST HAMPTON SC BORING LOGS.GPJ GEI CONSULTANTS.GDT 1/29/08

GEI Consultants, Inc.
455 Winding Brook Road
Glastonbury, CT 06033
(860) 368-5300

CLIENT: KeySpan
PROJECT NAME: East Hampton SC
CITY/STATE: East Hampton, New York
GEI PROJECT NUMBER: 072710-2-1102

BORING LOG
PAGE 1 of 3
EHS-GP-02

GROUND SURFACE ELEVATION (FT): 50.93 **LOCATION:** Southwest of Hortonsphere
NORTHING: 295722.9404 **EASTING:** 1482508.374 **TOTAL DEPTH (FT):** 55.00
DRILLED BY: Fenley & Nicol Environmental, Inc. / Kevin Kegel **DATUM VERT. / HORZ.:**
LOGGED BY: Michael Williams & Chris Berotti **DATE START / END:** 11/15/2007 - 11/15/2007
DRILLING DETAILS: Geoprobe
WATER LEVEL DEPTHS (FT): ▽ 44.00

DEPTH FT.	SAMPLE INFO TYPE and NO.	PEN FT.	REC IN.	PID (ppm)	STRATA	ANALYZED SAMPLE ID	SOIL / BEDROCK DESCRIPTION
0							0 - 0.5 Topsoil and grass, HAND CLEARED. 0.5 - 1 Coal and ash, HAND CLEARED.
		7.0		0		EHS-GP-02 (4-5)	1 - 7 SANDY SILT (ML); ~75% silt, ~20% fine sand, ~5% gravel, max. size 1.5 in., dry, dark brown to light brown, loose, HAND CLEARED.
5	S-1	3.0	40				7 - 10 WIDELY GRADED SAND (SW); ~90% sand; ~5% fine to coarse gravel, ~5% fines, max. size 1.5 in., dry, light brown to tan, loose.
				0.9			
10	S-2	5.0	40				10 - 15 WIDELY GRADED SAND (SW); ~85% sand; ~10% fine to coarse gravel, ~5% fines, max. size 0.75 in., dry, tan, rust colored layering throughout, loose.
				1.0			
15	S-3	5.0	38				15 - 20 WIDELY GRADED SAND (SW); ~85% sand; ~10% fine to coarse gravel, ~5% fines, max. size 0.75 in., dry, tan, orange and light brown layering throughout, loose.
				1.1			
20	S-4	5.0	35				20 - 25 WIDELY GRADED SAND (SW); ~75% sand; ~25% fine to coarse gravel, max. size 1.25 in., dry, tan to orange, loose.
				1.2			

NOTES:

PEN = PENETRATION LENGTH OF SAMPLER OR CORE BARREL
REC = RECOVERY LENGTH OF SAMPLE
PID = PHOTOIONIZATION DETECTOR READING (JAR HEADSPACE)
ppm = PARTS PER MILLION
IN. = INCHES
FT. = FEET
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ENVIRONMENTAL BORING LOG EAST HAMPTON SC BORING LOGS.GPJ GEI CONSULTANTS.GDT 1/29/08

GEI Consultants

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Glastonbury, CT 06033
(860) 368-5300

CLIENT: KeySpan
PROJECT NAME: East Hampton SC
CITY/STATE: East Hampton, New York
GEI PROJECT NUMBER: 072710-2-1102

BORING LOG

EHS-GP-02

DEPTH FT.	SAMPLE INFO TYPE and NO.	PEN FT.	REC IN.	PID (ppm)	STRATA	ANALYZED SAMPLE ID	SOIL / BEDROCK DESCRIPTION
25	S-5	5.0	36	2			25 - 30 WIDELY GRADED SAND WITH GRAVEL (SW); ~70% sand; ~25% fine to coarse gravel, ~5% fines, max. size 1.5 in., dry, orange to tan, loose.
30	S-6	5.0	33	1.1			30 - 35 WIDELY GRADED SAND WITH GRAVEL (SW); ~70% sand; ~25% fine to coarse gravel, ~5% fines, max. size 1.25 in., dry, tan to orange, loose.
35	S-7	5.0	27	1.2			35 - 40 WIDELY GRADED SAND (SW); ~85% sand; ~10% fine to coarse gravel, ~5% fines, max. size 1.25 in., dry, tan, loose.
40	S-8	5.0	26	1.1		EHS-GP-02 (43-45)	40 - 45 WIDELY GRADED SAND WITH GRAVEL (SW); ~70% sand; ~25% fine to coarse gravel, ~5% fines, max. size 1.5 in., wet, tan, loose; wet at 44' bgs.
45	S-9	5.0	24				45 - 50 WIDELY GRADED SAND WITH GRAVEL (SW); ~70% sand; ~25% fine to coarse gravel, ~5% fines, max. size 0.75 in., wet, tan, loose.
50	S-10	5.0	21				50 - 55 WIDELY GRADED SAND WITH GRAVEL (SW); ~70% sand; ~25% fine to coarse gravel, ~5% fines, max. size 1.25 in., wet, light brown, loose.

NOTES:

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ppm = PARTS PER MILLION
IN. = INCHES
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ENVIRONMENTAL BORING LOG EAST HAMPTON SC BORING LOGS.GPJ GEI CONSULTANTS.GDT 1/29/08

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GEI PROJECT NUMBER: 072710-2-1102

BORING LOG

PAGE 3 of 3

EHS-GP-02

DEPTH FT.	SAMPLE INFO: TYPE and NO.	SAMPLE INFO: PEN FT.	SAMPLE INFO: REC IN.	SAMPLE INFO: PID (ppm)	STRATA	ANALYZED SAMPLE ID	SOIL / BEDROCK DESCRIPTION
				0.1			
55							Bottom of borehole at 55.0 feet.

NOTES:

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ENVIRONMENTAL BORING LOG EAST HAMPTON SC BORING LOGS.GPJ GEI CONSULTANTS.GDT 1/29/08

GEI Consultants, Inc.
455 Winding Brook Road
Glastonbury, CT 06033
(860) 368-5300

CLIENT: KeySpan
PROJECT NAME: East Hampton SC
CITY/STATE: East Hampton, New York
GEI PROJECT NUMBER: 072710-2-1102

BORING LOG
PAGE 1 of 2
EHS-GP-03

GROUND SURFACE ELEVATION (FT): 51.75 **LOCATION:** East of Hortonsphere
NORTHING: 295745.4214 **EASTING:** 1482561.232 **TOTAL DEPTH (FT):** 50.00
DRILLED BY: Fenley & Nicol Environmental, Inc. / Kevin Kegel **DATUM VERT. / HORZ.:**
LOGGED BY: Michael Williams & Chris Berotti **DATE START / END:** 11/14/2007 - 11/14/2007
DRILLING DETAILS: Geoprobe
WATER LEVEL DEPTHS (FT): ▽ 44.75

DEPTH FT.	SAMPLE INFO TYPE and NO.	PEN FT.	REC IN.	PID (ppm)	STRATA	ANALYZED SAMPLE ID	SOIL / BEDROCK DESCRIPTION
0							0 - 1 Topsoil and grass, HAND CLEARED.
		7.0					1 - 7 SANDY SILT (ML); ~75% silt, ~20% fine sand, ~5% gravel, max. size 1 in., dry, dark brown to light brown, coal fragments at 1.5' bgs, loose, HAND CLEARED.
				0		EHS-GP-03 (4-5)	
5							
	S-1	3.0	35				7 - 10 WIDELY GRADED SAND (SW); ~85% sand; ~10% fine to coarse gravel, ~5% fines, max. size 0.75 in., dry, light brown to tan, loose.
				0.1			
10	S-2	5.0	38				10 - 15 WIDELY GRADED SAND (SW); ~85% sand; layered, ~10% fine to coarse gravel, ~5% fines, max. size 2.25 in., dry, tan with orange, loose.
				0			
15	S-3	5.0	32	0.1			15 - 20 WIDELY GRADED SAND (SW); ~85% sand; ~10% fine to coarse gravel, ~5% fines, max. size 0.75 in., dry, tan, loose.
20	S-4	5.0	42				20 - 25 WIDELY GRADED SAND WITH GRAVEL (SW); ~70% sand; ~25% fine to coarse gravel, ~5% fines, max. size 2 in., dry, tan, brown gravel band at 24' bgs, loose.

NOTES:

PEN = PENETRATION LENGTH OF SAMPLER OR CORE BARREL
REC = RECOVERY LENGTH OF SAMPLE
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ppm = PARTS PER MILLION
IN. = INCHES
FT. = FEET
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ENVIRONMENTAL BORING LOG EAST HAMPTON SC BORING LOGS.GPJ GEI CONSULTANTS.GDT 1/29/08

GEI Consultants

GEI Consultants, Inc.
455 Winding Brook Road
Glastonbury, CT 06033
(860) 368-5300

CLIENT: KeySpan
PROJECT NAME: East Hampton SC
CITY/STATE: East Hampton, New York
GEI PROJECT NUMBER: 072710-2-1102

BORING LOG

PAGE 2 of 2

EHS-GP-03

DEPTH FT.	SAMPLE INFO TYPE and NO.	PEN FT.	REC IN.	PID (ppm)	STRATA	ANALYZED SAMPLE ID	SOIL / BEDROCK DESCRIPTION
				0.1			
25	S-5	5.0	35	0.2			25 - 30 WIDELY GRADED SAND WITH GRAVEL (SW); ~70% sand; ~25% fine to coarse gravel, ~5% fines, max. size 2.25 in., dry, light brown to tan, loose.
30	S-6	5.0	36				30 - 35 WIDELY GRADED SAND WITH GRAVEL (SW); ~70% sand; ~25% fine to coarse gravel, ~5% fines, max. size 1.25 in., dry, light brown to tan, loose.
35	S-7	5.0	32	0.2			35 - 40 WIDELY GRADED SAND (SW); ~85% sand; ~10% fine to coarse gravel, ~5% fines, max. size 1 in., dry, tan, loose.
40	S-8	5.0	26				40 - 45 WIDELY GRADED SAND WITH GRAVEL (SW); ~70% sand; ~25% fine to coarse gravel, ~5% fines, max. size 0.75 in., wet, light brown to tan, loose; wet at 44.75' bgs.
45 ▽	S-9	5.0	23	0.1		EHS-GP-03 (44-45)	45 - 50 WIDELY GRADED SAND WITH GRAVEL (SW); ~70% sand; ~25% fine to coarse gravel, ~5% fines, max. size 1.75 in., wet, tan, loose.
				0.1			
50							Bottom of borehole at 50.0 feet.

NOTES:

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IN. = INCHES
FT. = FEET

NLO = NAPHTHALENE LIKE ODOR
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ENVIRONMENTAL BORING LOG EAST HAMPTON SC BORING LOGS.GPJ GEI CONSULTANTS.GDT 1/29/08

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Glastonbury, CT 06033
(860) 368-5300

CLIENT: KeySpan
PROJECT NAME: East Hampton SC
CITY/STATE: East Hampton, New York
GEI PROJECT NUMBER: 072710-2-1102

BORING LOG
PAGE 1 of 2
EHS-GP-04

GROUND SURFACE ELEVATION (FT): 50.89 **LOCATION:** Center of Site
NORTHING: 295590.322 **EASTING:** 1482432.316 **TOTAL DEPTH (FT):** 45.00
DRILLED BY: Fenley & Nicol Environmental, Inc. / Kevin Kegel **DATUM VERT. / HORZ.:**
LOGGED BY: Chris Scharkoph & Michael Williams **DATE START / END:** 11/16/2007 - 11/16/2007
DRILLING DETAILS: Geoprobe
WATER LEVEL DEPTHS (FT): ▽ 40.00

DEPTH FT.	SAMPLE INFO TYPE and NO.	PEN FT.	REC IN.	PID (ppm)	STRATA	ANALYZED SAMPLE ID	SOIL / BEDROCK DESCRIPTION
0							0 - 1 Topsoil and grass, HAND CLEARED.
		7.0		0		EHS-GP-04 (4-5)	1 - 7 SANDY SILT (ML); ~75% silt, ~20% fine sand, ~5% gravel, max. size 2.5 in., dry, dark brown to light brown, loose, HAND CLEARED.
5				0.5			
	S-1	3.0	24				7 - 10 WIDELY GRADED SAND (SW); ~90% sand; ~5% fine to coarse gravel, ~5% fines, max. size 0.5 in., dry, light brown to tan, loose.
10	S-2	5.0	48	0.1			10 - 15 WIDELY GRADED SAND (SW); ~85% sand; ~10% fine to coarse gravel, ~5% fines, max. size 1 in., dry, light brown, rust and tan band, loose.
15	S-3	5.0	51	0.1			15 - 20 WIDELY GRADED SAND (SW); ~85% sand; ~10% fine to coarse gravel, ~5% fines, max. size 0.75 in., dry, tan, orange and light brown bands first 24" then throughout, loose.
20	S-4	5.0	48	0.5			20 - 25 WIDELY GRADED SAND WITH GRAVEL (SW); ~75% sand; ~25% fine to coarse gravel, max. size 1 in., dry, brown tan and orange, loose.

NOTES:

PEN = PENETRATION LENGTH OF SAMPLER OR CORE BARREL
REC = RECOVERY LENGTH OF SAMPLE
PID = PHOTOIONIZATION DETECTOR READING (JAR HEADSPACE)
ppm = PARTS PER MILLION
IN. = INCHES
FT. = FEET
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TLO = TAR LIKE ODOR
CLO = CHEMICAL LIKE ODOR
ALO = ASPHALT LIKE ODOR
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ENVIRONMENTAL BORING LOG EAST HAMPTON SC BORING LOGS.GPJ GEI CONSULTANTS.GDT 1/29/08

GEI Consultants

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455 Winding Brook Road
Glastonbury, CT 06033
(860) 368-5300

CLIENT: KeySpan
PROJECT NAME: East Hampton SC
CITY/STATE: East Hampton, New York
GEI PROJECT NUMBER: 072710-2-1102

BORING LOG

PAGE 2 of 2

EHS-GP-04

DEPTH FT.	SAMPLE INFO TYPE and NO.	PEN FT.	REC IN.	PID (ppm)	STRATA	ANALYZED SAMPLE ID	SOIL / BEDROCK DESCRIPTION
25	S-5	5.0	26	0.7			25 - 30 WIDELY GRADED SAND WITH GRAVEL (SW); ~75% sand; ~25% fine to coarse gravel, max. size 1.5 in., dry, brown and orange, light brown and tan, loose.
30	S-6	5.0	25	0.8			30 - 35 WIDELY GRADED SAND (SW); ~85% sand; ~10% fine to coarse gravel, ~5% fines, max. size 1 in., dry, tan with dark brown, loose.
35	S-7	5.0	27	0.8			35 - 40 WIDELY GRADED SAND (SW); ~85% sand; ~10% fine to coarse gravel, ~5% fines, max. size 1.75 in., dry, light brown and tan, orange band, loose.
40	S-8	5.0	22	1		EHS-GP-04 (44-45)	40 - 45 WIDELY GRADED SAND (SW); ~85% sand; max. size 1.75 in., tan and light brown, orange band, loose, wet at bottom.
45							Bottom of borehole at 45.0 feet.

NOTES:

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ENVIRONMENTAL BORING LOG EAST HAMPTON SC BORING LOGS.GPJ GEI CONSULTANTS.GDT 1/29/08

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(860) 368-5300

CLIENT: KeySpan
PROJECT NAME: East Hampton SC
CITY/STATE: East Hampton, New York
GEI PROJECT NUMBER: 072710-2-1102

BORING LOG
PAGE 1 of 2
EHS-GP-05

GROUND SURFACE ELEVATION (FT): 49.55 **LOCATION:** Southeast corner of Site
NORTHING: 295512.8214 **EASTING:** 1482581.952 **TOTAL DEPTH (FT):** 45.00
DRILLED BY: Fenley & Nicol Environmental, Inc. / Kevin Kegel **DATUM VERT. / HORZ.:**
LOGGED BY: Chris Scharkoph & Michael Williams **DATE START / END:** 11/16/2007 - 11/16/2007
DRILLING DETAILS: Geoprobe
WATER LEVEL DEPTHS (FT): ▽ 44.00

DEPTH FT.	SAMPLE INFO: TYPE and NO.	PEN FT.	REC IN.	PID (ppm)	STRATA	ANALYZED SAMPLE ID	SOIL / BEDROCK DESCRIPTION
0							0 - 1 Asphalt, HAND CLEARED.
		7.0					1 - 7 SANDY SILT (ML); ~75% silt, ~20% fine sand, ~5% gravel, max. size 3 in., dry, dark brown to light brown, loose, HAND CLEARED.
5						EHS-GP-05 (4-5)	
	S-1	3.0	38	1.5			7 - 10 WIDELY GRADED SAND (SW); ~90% sand; ~5% fine to coarse gravel, ~5% fines, max. size 1 in., dry, light brown with tan, loose.
10				1.3			10 - 15 INTERVAL NOT SAMPLED.
15	S-2	5.0	46	0.6			15 - 20 WIDELY GRADED SAND (SW); ~90% sand; ~5% fine to coarse gravel, ~5% fines, max. size 0.75 in., dry, tan, orange bands, loose.
20							20 - 25 INTERVAL NOT SAMPLED.

NOTES:

PEN = PENETRATION LENGTH OF SAMPLER OR CORE BARREL
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ENVIRONMENTAL BORING LOG EAST HAMPTON SC BORING LOGS.GPJ GEI CONSULTANTS.GDT 1/29/08

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CLIENT: KeySpan
PROJECT NAME: East Hampton SC
CITY/STATE: East Hampton, New York
GEI PROJECT NUMBER: 072710-2-1102

BORING LOG

EHS-GP-05

DEPTH FT.	SAMPLE INFO: TYPE and NO.	PEN FT.	REC IN.	PID (ppm)	STRATA	ANALYZED SAMPLE ID	SOIL / BEDROCK DESCRIPTION
25	S-3	5.0	37				25 - 30 WIDELY GRADED SAND WITH GRAVEL (SW); ~80% sand; ~15% fine to coarse gravel, ~5% fines, max. size 1.5 in., dry, brown, dark brown bands, loose.
30							30 - 40 INTERVAL NOT SAMPLED.
35							
40	S-4	5.0	24				40 - 45 WIDELY GRADED SAND (SW); max. size 0.75 in., tan and light brown, orange bands, loose, wet at 44' bgs.
45						EHS-GP-05 (44-45)	Bottom of borehole at 45.0 feet.

NOTES:

PEN = PENETRATION LENGTH OF SAMPLER OR CORE BARREL
REC = RECOVERY LENGTH OF SAMPLE
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ENVIRONMENTAL BORING LOG EAST HAMPTON SC BORING LOGS.GPJ GEI CONSULTANTS.GDT 1/29/08

Appendix G

Data Usability Summary Report and Electronic Data Deliverables (Electronic Only)

Site: Keyspan-East Hampton
Laboratory: Test America, CT
Report No.: 220-3395-1
Reviewer: Lisa McDonagh/GEI Consultants
Date: February 4, 2008

Samples Reviewed and Evaluation Summary

FIELD ID	LAB ID	FRACTIONS VALIDATED
EHS-GP-02(4-5)	220-3395-1	VOC, SVOC, HERB
EHS-GP-01(4-5)	220-3395-2	VOC, SVOC, HERB
EHS-GP-01(44-45)	220-3395-3	VOC, SVOC, HERB
EHS-GP-03(4-5)	220-3395-4	VOC, SVOC, HERB
EHS-GP-04(4-5)	220-3395-5	VOC, SVOC, HERB
EHS-GP-XX(XX)	220-3395-6	VOC, SVOC, HERB
EHS-SS-01	220-3395-7	VOC, SVOC, HERB
EHS-SS-XX	220-3395-8	VOC, SVOC, HERB
EHS-SS-02	220-3395-9	VOC, SVOC, HERB
EHS-SS-03	220-3395-10	VOC, SVOC, HERB
EHS-SS-04	220-3395-11	VOC, SVOC, HERB
EHS-SS-05	220-3395-12	VOC, SVOC, HERB
EHS-SS-06	220-3395-13	VOC, SVOC, HERB
EHS-GP-03(44-45)	220-3395-14	VOC, SVOC, HERB
Trip Blank	220-3395-16	VOC

Associated QC Samples(s):	Field Blanks:	Trip Blank, EHS-FB-01(220-3438-1), EHS-FB-02(220-3438-1), Trip Blank(220-3438-1)
	Field Duplicate pair:	EHS-SS-03/ EHS-SS-XX EHS-GP-02(4-5)/EHS-GP-XX(XX)

The above-listed soil samples were collected on November 13 and 14, 2007 and were analyzed for volatile organic compounds (VOCs) by SW-846 method 8260B, semivolatile organic compounds (SVOCs) by SW-846 method 8270C and herbicide organic compounds (HERBs) by SW-846 method 8151A. The data validation based on the USEPA Contract Laboratory Program National Functional Guidelines for Organic Data Review, January 2005 and the USEPA Region II Standard Operating Procedure (SOP) for the Validation of Organic Data acquired using SW-846 8260B, 8270C and 8151A, modified to accommodate the SW-846 methodologies.

The organic data were evaluated based on the following parameters:

* • Data Completeness
* • Holding Times and Sample Preservation
* • Gas Chromatography/Mass Spectrometry (GC/MS) Tunes

- Initial and Continuing Calibrations
- Blanks
- Surrogate Recoveries
- Matrix Spike/Matrix Spike Duplicate (MS/MSD) Results
- Laboratory Control Sample (LCS) Results
* • Internal Standards
- Field Duplicate Results
- Quantitation Limits and Data Assessment
* • Sample Quantitation and Compound Identification

* - All criteria were met.

All results are usable for project objectives.

Qualifications applied to the data as a result of sampling error are discussed below.

- The positive results for methylene chloride in samples EHS-GP-02(4-5), EHS-GP-01(4-5), EHS-GP-01(44-45), EHS-GP-03(4-5), EHS-GP-04(4-5), EHS-GP-XX(XX), EHS-SS-01, EHS-SS-XX, EHS-SS-02, EHS-SS-03, EHS-SS-04, EHS-SS-05, EHS-SS-06 and EHS-GP-03(44-45) were qualified as a nondetect at the reporting limit due to trip blank contamination. The results are still usable for project objectives as nondetect. These qualifications may have a minor impact on the data usability.

- The positive results for acetone in samples EHS-GP-02(4-5), EHS-GP-01(44-45), EHS-GP-03(4-5), EHS-GP-04(4-5), EHS-GP-XX(XX), EHS-SS-XX and EHS-GP-03(44-45) were qualified as a nondetect at the reporting limit due to field blank contamination. The results are still usable for project objectives as nondetect. These qualifications may have a minor impact on the data usability.

- The SVOC positive and/or nondetect results were qualified as estimated (J/UJ) due to field duplicate %RPDs which were above the required limits: acenaphthene, anthracene, benzo(a)anthracene, benzo(a)pyrene, benzo(b)fluoranthene, benzo(ghi)perylene, benzo(k)fluoranthene, bis(2-ethylhexyl)phthalate, carbazole, chrysene, dibenz(ah)anthracene, fluoranthene, fluorene, indeno(123cd)pyrene, 2-methylnaphthalene, naphthalene, phenanthrene, pyrene and 4-methylphenol in samples EHS-SS-03 and EHS-SS-XX. These results can be used for project objectives as estimated values, which may have a minor impact on the data usability.

Qualifications applied to the data as a result of analytical error are discussed below.

- Potential uncertainty exists for select VOC and SVOC results, which were below the lowest calibration standard. These results were qualified as estimated (J). These results can be used for project objectives as estimated values, which may have a minor impact on the data usability.

- The positive results for acetone in samples EHS-SS-02, EHS-SS-03, EHS-SS-04 and EHS-SS-05 were qualified as a nondetect at the reporting limit due to method blank contamination. The results are still usable for project objectives as nondetect. These qualifications may have a minor impact on the data usability.

- The VOC nondetect results in samples EHS-SS-01 and EHS-SS-05 were qualified as estimated (UJ) due to surrogate recoveries, which were below the control limits. The nondetect results can be used for project objectives as estimated values. These qualifications may have a minor impact on the data usability.

- The nondetect result for styrene in sample EHS-SS-06 was qualified as estimated (UJ) due to low percent recovery in the evaluation of the MS/MSD. The result can be used for project objectives as an estimated value, which may have a minor impact on the data usability.

- The positive VOC results were qualified (J) due to LCS recovery, which were above the control limits: toluene in samples EHS-GP-01(4-5), EHS-GP-01(44-45) and EHS-GP-XX(XX). The result may be biased high. The positive results can be used for project objectives as estimated values. These qualifications may have a minor impact on the data usability.

- The nondetect VOC results were qualified (UJ) due to LCS recovery, which were below the control limits: styrene in samples EHS-SS-02, EHS-SS-03, EHS-SS-04 and EHS-SS-05. The results may be biased low. The nondetect results can be used for project objectives as estimated quantitation limits. These qualifications may have a minor impact on the data usability.

The validation findings were based on the following information.

Data Completeness

The data package was complete as defined under the requirements for the NYASP category B deliverables for the VOC, SVOC and HERB analyses.

Holding Times and Sample Preservation

All holding time and sample preservation criteria were met in the VOC, SVOC and HERB analyses.

GC/MS Tunes

All criteria were met in the VOC and SVOC analyses.

Initial and Continuing Calibrations

VOC

Compounds that did not meet criteria in the VOC calibrations are summarized in the following tables.

Instrument ID MSL Compound	IC 11/12/07	CC 11/19/07
bromomethane	X(35.3%)	
Samples Affected	Trip Blank	Trip Blank

X = Initial calibration (IC) relative standard deviation (%RSD) > 30 for GC/MS (VOC and SVOC); estimate (J) positive and blank-qualified (UJ) results only.
XX = Continuing calibration (CC) percent difference (%D) > 25; estimate (J/UJ) positive and nondetect results.
XXX = Continuing calibration (CC) percent difference (%D) > 90; estimate (J) positive results and reject (R) nondetect results.
+ = Response factor (RRF) < 0.05; Estimate (J) positive results and reject (R) nondetect results.

Qualifications were not required.

SVOC and HERB

All criteria were met in the initial and continuing SVOC and HERB calibrations.

Blanks

VOC

Methylene chloride and acetone were detected in the method, trip and field blank samples. The presence of blank contamination indicates that false positives may exist for this compound in the associated samples. Action Levels (ALs) were established at 10x (for common contaminants) and 5x (for other compounds) the concentrations detected. The following table summarizes the AL.

Compound	Type of Blank	Associated Samples	Maximum Concentration	Action Level
Acetone	Method Blank	EHS-SS-02 EHS-SS-03 EHS-SS-04 EHS-SS-05	5.5 ug/Kg	55 ug/Kg
Methylene chloride	Trip Blank	All samples.	2.5 ug/L	25 ug/L
Acetone Methylene chloride	Field Blank	All samples.	2.3 ug/L 1.3 ug/L	23 ug/L 13 ug/L

Sample results were qualified as follows:

- If sample concentration was < the quantitation limit (QL) and ≤ the Action Level, qualify the result as a nondetect (U) at the QL.
- If sample concentration was > the QL and ≤ the Action Level, qualify the result as not detected (U) at the reported concentration.
- If the sample concentration was > the QL and > the Action Level, qualification of the data was not required.

The positive results for acetone in samples EHS-SS-02, EHS-SS-03, EHS-SS-04 and EHS-SS-05 were qualified as a nondetect at the reporting limit due to method blank contamination.

The positive results for methylene chloride in samples EHS-GP-02(4-5), EHS-GP-01(4-5), EHS-GP-01(44-45), EHS-GP-03(4-5), EHS-GP-04(4-5), EHS-GP-XX(XX), EHS-SS-01, EHS-SS-XX, EHS-SS-02, EHS-SS-03, EHS-SS-04, EHS-SS-05, EHS-SS-06 and EHS-GP-03(44-45) were qualified as a nondetect at the reporting limit due to trip blank contamination.

The positive results for acetone in samples EHS-GP-02(4-5), EHS-GP-01(44-45), EHS-GP-03(4-5), EHS-GP-04(4-5), EHS-GP-XX(XX), EHS-SS-XX and EHS-GP-03(44-45) were qualified as a nondetect at the reporting limit due to field blank contamination.

The following field and trip blanks were associated with the samples:

Compound	Type of Blank	Associated Samples	Maximum Concentration	Action Level
Acetone Methylene chloride	Field Blank 220-3438-1	All samples 220-3395-1, 220-3404-1, 220-3406-1 and 220-3539-1.	2.3 ug/L 1.3 ug/L	23 ug/L 13 ug/L
Acetone Methylene chloride	Field Blank 220-3438-1	All samples 220-3395-1, 220-3404-1, 220-3406-1 and 220-3539-1.	2.0 ug/L 1.3 ug/L	20 ug/L 13 ug/L
Methylene chloride	Trip Blank 220-3438-1	All samples 220-3395-1, 220-3404-1, 220-3406-1 and 220-3539-1.	3.7 ug/L	37 ug/L

Qualifications were not required.

SVOC and HERB

Target compounds were not detected in the SVOC and HERB method blank samples.

Surrogate Recoveries

VOC

The following table summarizes the surrogate recoveries that failed to meet the acceptance criteria in the VOC analyses:

Sample ID	Percent Recovery				Action
	Tol-d8 51-137	BFB 36-133	DCE	DBFM	
EHS-SS-01	49	-	-	-	Estimate (UJ) the nondetect results.
EHS-SS-05	46	26	-	-	Estimate (UJ) the nondetect results.

- Within control limits
Tol-d8 – Toluene-d8
BFB – Bromofluorobenzene
DCE – 1,2-Dichloroethane-d4
DBFM - Dibromofluoromethane

SVOC and HERB

All criteria were met.

MS/MSD Results

VOC

MS/MSD analyses were performed on sample EHS-GP-02(4-5). All criteria were met.

MS/MSD analyses were performed on sample EHS-SS-06. The following table lists the compounds recovered outside of control limits in the VOC analyses and the resulting validation actions.

Compound	Recovery (%)	RPD (%)	Control Limits	Validation Actions

Compound	Recovery (%)	RPD (%)	Control Limits	Validation Actions
Styrene	71/-	-	72-114	Estimate (UJ) the nondetect results for styrene in sample EHS-SS-06.

SVOC

MS/MSD analyses were performed on sample EHS-GP-02(4-5). The following table lists the compounds recovered outside of control limits in the SVOC analyses and the resulting validation actions.

Compound	Recovery (%)	RPD (%)	Control Limits	Validation Actions
2,4-dinitrophenol	82/89	-	0-36	Validation action was not required as all results were nondetect.
4,6-dinitro-2-methylphenol	-/92	-	0-89	

MS/MSD analyses were performed on sample EHS-SS-06. The following table lists the compounds recovered outside of control limits in the SVOC analyses and the resulting validation actions.

Compound	Recovery (%)	RPD (%)	Control Limits	Validation Actions
2,4-dinitrophenol	59/64	-	0-36	Validation action was not required as all results were nondetect.

HERB

MS/MSD analyses were performed on sample EHS-SS-06. The following table lists the compounds recovered outside of control limits in the SVOC analyses and the resulting validation actions.

Compound	Recovery (%)	RPD (%)	Control Limits	Validation Actions
2,4-D	-/-	43	<30	Validation action was not required as all results were nondetect.

Compound	Recovery (%)	RPD (%)	Control Limits	Validation Actions
2,4,5-T	-/-	50	<30	Validation action was not required as all results were nondetect.
2,4,5-TP	-/-	42	<30	Validation action was not required as all results were nondetect.

There was an MS/MSD analysis performed on sample EHS-GP-02(4-5). The laboratory failed to spike the sample with matrix spike solution. The sample was not reextracted.

LCS Results

VOC

The following table lists the recoveries, which were outside of control limits in the LCS analyses and the resulting validation actions.

Compound	Recovery (%)	Control Limits	Associated Samples	Validation Actions
1,1,2-trichloroethane	125	70-119	Trip Blank	Validation action was not required as all results were nondetect and therefore not affected by the potential high bias.
Toluene	115	72-113	EHS-GP-01(4-5) EHS-GP-01(44-45) EHS-GP-03(4-5) EHS-GP-04(4-5) EHS-GP-XX(XX) EHS-SS-XX EHS-GP-03(44-45)	Estimate (J) the positive results for toluene in samples EHS-GP-01(4-5), EHS-GP-01(44-45) and EHS-GP-XX(XX),
Styrene	70	72-114	EHS-SS-02 EHS-SS-03 EHS-SS-04 EHS-SS-05	Estimate (UJ) the nondetect result for styrene in samples EHS-SS-02, EHS-SS-03, EHS-SS-04 and EHS-SS-05.

SVOC

The following table lists the recoveries, which were outside of control limits in the LCS analyses and the resulting validation actions.

Compound	Recovery (%)	Control Limits	Associated Samples	Validation Actions
2,4-dinitrophenol 4,6-dinitro-2-methylphenol	102 110	0-36 0-89	EHS-GP-02(4-5) EHS-GP-01(4-5) EHS-GP-01(44-45) EHS-GP-03(4-5) EHS-GP-04(4-5) EHS-GP-XX(XX) EHS-SS-01 EHS-SS-XX EHS-SS-02 EHS-SS-03 EHS-SS-04 EHS-SS-05	Validation action was not required as all results were nondetect and therefore not affected by the potential high bias.
2,4-dinitrophenol 4,6-dinitro-2-methylphenol	79 93	0-36 0-89	EHS-SS-06 EHS-GP-03(44-45)	Validation action was not required as all results were nondetect and therefore not affected by the potential high bias.

HERB

All criteria were met.

Internal Standards

VOC and SVOC

All criteria were met.

Field Duplicate Results

Samples EHS-GP-02(4-5) and EHS-GP-XX(XX) were submitted as the field duplicate pair with this sample group.

VOC

The following table summarizes the VOC RPDs of detected analytes, all of which met criteria.

Analyte	EHS-GP-02(4-5) ug/Kg	EHS-GP-XX(XX) ug/Kg	RPD (%)
Methylene chloride	2.9	5.0	53, within 2XQL
Toluene	5.7U	0.82	150, within 2XQL.
Acetone	23U	5.6	122, within 2XQL.

NC-Not calculable
For soil results >5xQL and RPDs>50; estimate (J) results in the field duplicate pair.
For soil results <5xQL; the sample and duplicate results must be within 2xQL.

SVOC

All compound results were nondetect for the SVOC field duplicate analyses. Qualifications were not required.

HERB

The following table summarizes the HERB RPDs of detected analytes, all of which met criteria.

Analyte	EHS-GP-02(4-5)	EHS-GP-XX(XX) ug/Kg	RPD (%)
2,4,5-T	23U	22	4

NC-Not calculable
For soil results >5xQL and RPDs>50; estimate (J) results in the field duplicate pair.
For soil results <5xQL; the sample and duplicate results must be within 2xQL.

Samples EHS-SS-03 and EHS-SS-XX were submitted as the field duplicate pair with this sample group.

VOC

The following table summarizes the VOC RPDs of detected analytes, all of which met criteria.

Analyte	EHS-SS-03	EHS-SS-XX	RPD (%)
Acetone	11 ug/Kg	4.7 ug/Kg	80, within 2XQL
Methylene chloride	2.5 ug/Kg	2.8 ug/Kg	11

NC-Not calculable
For soil results >5xQL and RPDs>50; estimate (J) results in the field duplicate pair.
For soil results <5xQL; the sample and duplicate results must be within 2xQL.

SVOC

The following table summarizes the SVOC RPDs of detected analytes, none of the SVOC compounds met criteria. Estimate the positive and/or nondetect results (J/UJ).

Analyte	EHS-SS-03 ug/Kg	EHS-SS-XX ug/Kg	RPD (%)
Acenaphthene	3300	470U	**150**
Anthracene	6200	470U	**172**
Benzo(a)anthracene	11000	150	**195**
Benzo(a)pyrene	8700	160	**193**
Benzo(b)fluoranthene	9300	230	**190**
Benzo(ghi)perylene	4200	150	**186**
Benzo(k)fluoranthene	3600	79	**191**
Bis(2-ethylhexyl)phthalate	1800	580	**103**
Carbazole	2300	470U	**132**
Chrysene	11000	250	**191**
Dibenz(ah)anthracene	1200	470U	**87**
Dibenzofuran	1700	470U	**113**
Fluoranthene	25000	340	**195**
Fluorene	2300	470U	**132**
Indeno(123cd)pyrene	5000	170	**187**
2-methylnaphthalene	940	470U	**133**
Naphthalene	1200	470U	**87**
Phenanthrene	26000	170	**197**
Pyrene	21000	330	**194**
4-methylphenol	4100U	91	**191**

NC-Not calculable
For soil results >5xQL and RPDs>50; estimate (J) results in the field duplicate pair.
For soil results <5xQL; the sample and duplicate results must be within 2xQL.

HERB

All compound results were nondetect for the HERB field duplicate analyses. Qualifications were not required.

Quantitation Limits and Data Assessment

VOC, SVOC and HERB

Results were reported which were below the reporting limit (RL) and above the method detection limit (MDL) in the VOC and SVOC analyses. These results were qualified as estimated (J) due to uncertainty at the low end of the calibration. Several SVOC and two HERB compound results with laboratory (J) qualifiers were above the lowest calibration standard therefore the J qualifiers were removed by the validator.

The following table lists the sample dilutions, which were performed and reported. Quantitation limits were elevated accordingly.

Sample	VOC Analysis/Dilution Reported	SVOC Analysis/Dilution Reported
EHS-SS-03	NR	Final extract volume of 1.0 ml and 10-fold dilution performed.

NR- Dilution was not required.

Sample Quantitation and Compound Identification

VOC, SVOC and HERB

Calculations were spot-checked; no discrepancies were noted in the VOC, SVOC and HERB analyses.

Site: Keyspan-East Hampton
Laboratory: Test America, CT
Report No.: 220-3404-1
Reviewer: Lisa McDonagh/GEI Consultants
Date: February 4, 2008

Samples Reviewed and Evaluation Summary

FIELD ID	LAB ID	FRACTIONS VALIDATED
EHS-GP-04(44-45)	220-3404-1	VOC, SVOC, HERB
EHS-GP-05(4-5)	220-3404-2	VOC, SVOC, HERB
EHS-GP-05(44-45)	220-3404-3	VOC, SVOC, HERB
EHS-TB-111607	220-3404-4	VOC
EHS-GP-02(43-45)	220-3404-5	VOC, SVOC, HERB
Associated QC Samples(s):	Field Blanks:	EHS-TB-111607, EHS-FB-01(220-3438-1), EHS-FB-02(220-3438-1), Trip Blank(220-3438-1)
	Field Duplicate pair:	None associated.

The above-listed soil samples were collected on November 15 and 16, 2007 and were analyzed for volatile organic compounds (VOCs) by SW-846 method 8260B, semivolatile organic compounds (SVOCs) by SW-846 method 8270C and herbicide organic compounds (HERBs) by SW-846 method 8151A. The data validation based on the USEPA Contract Laboratory Program National Functional Guidelines for Organic Data Review, January 2005 and the USEPA Region II Standard Operating Procedure (SOP) for the Validation of Organic Data acquired using SW-846 8260B, 8270C and 8151A, modified to accommodate the SW-846 methodologies.

The organic data were evaluated based on the following parameters:

*	•	Data Completeness
*	•	Holding Times and Sample Preservation
*	•	Gas Chromatography/Mass Spectrometry (GC/MS) Tunes
	•	Initial and Continuing Calibrations
	•	Blanks
*	•	Surrogate Recoveries
*	•	Matrix Spike/Matrix Spike Duplicate (MS/MSD) Results
	•	Laboratory Control Sample (LCS) Results
*	•	Internal Standards
NA	•	Field Duplicate Results
	•	Quantitation Limits and Data Assessment
*	•	Sample Quantitation and Compound Identification

* - All criteria were met.

All results are usable for project objectives.

Qualifications applied to the data as a result of sampling error are discussed below.

- The positive results for methylene chloride in samples EHS-GP-04(44-45), EHS-GP-05(4-5), EHS-GP-05(44-45) and EHS-GP-02(43-45) were qualified as a nondetect at the reporting limit due to trip blank contamination. The results are still usable for project objectives as nondetect. These qualifications may have a minor impact on the data usability.

- The positive results for acetone in samples EHS-GP-04(44-45), EHS-GP-05(4-5), EHS-GP-05(44-45) and EHS-GP-02(43-45) were qualified as a nondetect at the reporting limit due to field blank contamination. The results are still usable for project objectives as nondetect. These qualifications may have a minor impact on the data usability.

Qualifications applied to the data as a result of analytical error are discussed below.

- Potential uncertainty exists for select VOC results, which were below the lowest calibration standard. These results were qualified as estimated (J). These results can be used for project objectives as estimated values, which may have a minor impact on the data usability.

The validation findings were based on the following information.

Data Completeness

The data package was complete as defined under the requirements for the NYASP category B deliverables for the VOC, SVOC and HERB analyses.

Holding Times and Sample Preservation

All holding time and sample preservation criteria were met in the VOC, SVOC and HERB analyses.

GC/MS Tunes

All criteria were met in the VOC and SVOC analyses.

Initial and Continuing Calibrations

VOC

Compounds that did not meet criteria in the VOC calibrations are summarized in the following tables.

Instrument ID MSL Compound	IC 11/12/07	CC 11/19/07
bromomethane	X(35.3%)	
Samples Affected	EHS-TB-111607	EHS-TB-111607

X = Initial calibration (IC) relative standard deviation (%RSD) > 30 for GC/MS (VOC and SVOC); estimate (J) positive and blank-qualified (UJ) results only.
XX = Continuing calibration (CC) percent difference (%D) > 25; estimate (J/UJ) positive and nondetect results.
XXX = Continuing calibration (CC) percent difference (%D) > 90; estimate (J) positive results and reject (R) nondetect results.
+ = Response factor (RRF) < 0.05; Estimate (J) positive results and reject (R) nondetect results.

Qualifications were not required.

SVOC and HERB

All criteria were met in the initial and continuing SVOC and HERB calibrations.

Blanks

VOC

Methylene chloride and acetone were detected in the trip and field blank samples. The presence of blank contamination indicates that false positives may exist for this compound in the associated samples. Action Levels (ALs) were established at 10x (for common contaminants) and 5x (for other compounds) the concentrations detected. The following table summarizes the AL.

Compound	Type of Blank	Associated Samples	Maximum Concentration	Action Level
Methylene chloride	Trip Blank	All samples.	4.3 ug/L	43 ug/L
Acetone	Field Blank	All samples.	2.3 ug/L	23 ug/L
Methylene chloride			1.3 ug/L	13 ug/L

Sample results were qualified as follows:

- If sample concentration was < the quantitation limit (QL) and ≤ the Action Level, qualify the result as a nondetect (U) at the QL.
- If sample concentration was > the QL and ≤ the Action Level, qualify the result as not detected (U) at the reported concentration.
- If the sample concentration was > the QL and > the Action Level, qualification of the data was not required.

The positive results for methylene chloride in samples EHS-GP-04(44-45), EHS-GP-05(4-5), EHS-GP-05(44-45) and EHS-GP-02(43-45) were qualified as a nondetect at the reporting limit due to trip blank contamination.

The positive results for acetone in samples EHS-GP-04(44-45), EHS-GP-05(4-5), EHS-GP-05(44-45) and EHS-GP-02(43-45) were qualified as a nondetect at the reporting limit due to field blank contamination.

The following field and trip blanks were associated with the samples:

Compound	Type of Blank	Associated Samples	Maximum Concentration	Action Level
Acetone Methylene chloride	Field Blank 220-3438-1	All samples 220-3395-1, 220-3404-1, 220-3406-1 and 220-3539-1.	2.3 ug/L 1.3 ug/L	23 ug/L 13 ug/L
Acetone Methylene chloride	Field Blank 220-3438-1	All samples 220-3395-1, 220-3404-1, 220-3406-1 and 220-3539-1.	2.0 ug/L 1.3 ug/L	20 ug/L 13 ug/L
Methylene chloride	Trip Blank 220-3438-1	All samples 220-3395-1, 220-3404-1, 220-3406-1 and 220-3539-1.	3.7 ug/L	37 ug/L

Qualifications were not required.

SVOC and HERB

Target compounds were not detected in the SVOC and HERB method blank samples.

Surrogate Recoveries

VOC, SVOC and HERB

All criteria were met.

MS/MSD Results

VOC, SVOC and HERB

Batch QC, matrix spike/matrix spike duplicate samples were submitted with the data package.

LCS Results

VOC

The following table lists the recoveries, which were outside of control limits in the LCS analyses and the resulting validation actions.

Compound	Recovery (%)	Control Limits	Associated Samples	Validation Actions
1,1,2-trichloroethane	125	70-119	EHS-TB-111607	Validation action was not required as all results were nondetect and therefore not affected by the potential high bias.

SVOC

The following table lists the recoveries, which were outside of control limits in the LCS analyses and the resulting validation actions.

Compound	Recovery (%)	Control Limits	Associated Samples	Validation Actions
2,4-dinitrophenol	72	0-36	All samples.	Validation action was not required as all results were nondetect and therefore not affected by the potential high bias.

HERB

All criteria were met.

Internal Standards

VOC and SVOC

All criteria were met.

Field Duplicate Results

VOC, SVOC and HERB

Field duplicate samples were not submitted with the data package.

Quantitation Limits and Data Assessment

VOC, SVOC and HERB

Results were reported which were below the reporting limit (RL) and above the method detection limit (MDL) in the VOC analyses. These results were qualified as estimated (J) due to uncertainty at the low end of the calibration.

Sample Quantitation and Compound Identification

VOC, SVOC and HERB

Calculations were spot-checked; no discrepancies were noted in the VOC, SVOC and HERB analyses.

Keyspan-East Hampton, Project 072710-2-1103

Site: Keyspan-East Hampton
Laboratory: Test America, CT
Report No.: 220-3406-1, 220-3438-1, 220-3509-1
Reviewer: Lisa McDonagh/GEI Consultants
Date: February 4, 2008

Samples Reviewed and Evaluation Summary

FIELD ID	LAB ID	FRACTIONS VALIDATED
EHS-GW-03	220-3406-1	VOC, SVOC, HERB
EHS-TB-111607	220-3406-2	VOC
EHS-FB-01	220-3438-1	VOC, SVOC, HERB
EHS-FB-02	220-3438-2	VOC, SVOC, HERB
Trip Blank	220-3438-3	VOC
EHS-GW-01	220-3509-1	VOC, SVOC, HERB
EHS-TB-112907	220-3509-2	VOC

Associated QC Samples(s):	Field Blanks:	EHS-TB-111607, EHS-FB-01, EHS-FB-02 Trip Blank and EHS-TB-112907
	Field Duplicate pair:	None Associated.

The above-listed aqueous samples were collected on November 16, 19 and 29, 2007 and were analyzed for volatile organic compounds (VOCs) by SW-846 method 8260B, semivolatile organic compounds (SVOCs) by SW-846 method 8270C and herbicide organic compounds (HERBs) by SW-846 method 8151A. The data validation based on the USEPA Contract Laboratory Program National Functional Guidelines for Organic Data Review, January 2005 and the USEPA Region II Standard Operating Procedure (SOP) for the Validation of Organic Data acquired using SW-846 8260B, 8270C and 8151A, modified to accommodate the SW-846 methodologies.

The organic data were evaluated based on the following parameters:

*	•	Data Completeness
	•	Holding Times and Sample Preservation
*	•	Gas Chromatography/Mass Spectrometry (GC/MS) Tunes
	•	Initial and Continuing Calibrations
	•	Blanks
*	•	Surrogate Recoveries
*	•	Matrix Spike/Matrix Spike Duplicate (MS/MSD) Results
	•	Laboratory Control Sample (LCS) Results
*	•	Internal Standards
NA	•	Field Duplicate Results
	•	Quantitation Limits and Data Assessment

* • Sample Quantitation and Compound Identification

* - All criteria were met.

All results are usable for project objectives, with the exception of all nondetected results for SVOC sample EHS-GW-03 due to holding time nonconformance.

Qualifications were not applied to the data as a result of sampling error.
Qualifications applied to the data as a result of analytical error are discussed below.

- Potential uncertainty exists for select VOC results, which were below the lowest calibration standard. These results were qualified as estimated (J). These results can be used for project objectives as estimated values, which may have a minor impact on the data usability.

- The nondetect results for all results in SVOC sample EHS-GW-03 were qualified as rejected (R) due to holding time nonconformance. Results are not usable for project objectives.

- The positive results for acetone in samples EHS-FB-01 and EHS-FB-02 were qualified as estimated (J) due to initial calibration nonconformances. The direction of the bias cannot be determined from these nonconformances. The results can be used for project objectives as estimated values, which may have a minor impact on the data usability.

The validation findings were based on the following information.

Data Completeness

The data package was complete as defined under the requirements for the NYASP category B deliverables for the VOC, SVOC and HERB analyses.

Holding Times and Sample Preservation

All holding time and sample preservation criteria were met in the VOC and HERB analyses.

SVOC

Sample EHS-GW-03 was extracted 46 days outside of the required holding time. Qualify the nondetect results as rejected (R) due to holing time nonconformance.

GC/MS Tunes

All criteria were met in the VOC and SVOC analyses.

Initial and Continuing Calibrations

VOC

Compounds that did not meet criteria in the VOC calibrations are summarized in the following tables.

Instrument ID MSL Compound	IC 11/12/07	CC 11/19/07
bromomethane	X(35.3%)	
Samples Affected	EHS-GW-03 EHS-TB-111607	EHS-GW-03 EHS-TB-111607

X = Initial calibration (IC) relative standard deviation (%RSD) > 30 for GC/MS (VOC and SVOC); estimate (J) positive and blank-qualified (UJ) results only.
XX = Continuing calibration (CC) percent difference (%D) > 25; estimate (J/UJ) positive and nondetect results.
XXX = Continuing calibration (CC) percent difference (%D) > 90; estimate (J) positive results and reject (R) nondetect results.
+ = Response factor (RRF) < 0.05; Estimate (J) positive results and reject (R) nondetect results.

Qualifications were not required.

Instrument ID MSV Compound	IC 11/07/07	CC 11/23/07
acetone	X(35.4%)	
Samples Affected	EHS-FB-01 EHS-FB-02 Trip Blank	EHS-FB-01 EHS-FB-02 Trip Blank

X = Initial calibration (IC) relative standard deviation (%RSD) > 30 for GC/MS (VOC and SVOC); estimate (J) positive and blank-qualified (UJ) results only.
XX = Continuing calibration (CC) percent difference (%D) > 25; estimate (J/UJ) positive and nondetect results.
XXX = Continuing calibration (CC) percent difference (%D) > 90; estimate (J) positive results and reject (R) nondetect results.
+ = Response factor (RRF) < 0.05; Estimate (J) positive results and reject (R) nondetect results.

The positive results for acetone in samples EHS-FB-01 and EHS-FB-02 were qualified as estimated (J) due to initial calibration nonconformances.

Compounds that did not meet criteria in the VOC calibrations are summarized in the following tables.

Instrument ID MSL Compound	IC 11/23/07	CC 12/04/07
Bromomethane	X(42.7%)	
Samples Affected	EHS-GW-01 EHS-TB-112907	EHS-GW-01 EHS-TB-112907

X = Initial calibration (IC) relative standard deviation (%RSD) > 30 for GC/MS (VOC and SVOC); estimate (J) positive and blank-qualified (UJ) results only.
XX = Continuing calibration (CC) percent difference (%D) > 25; estimate (J/UJ) positive and nondetect results.
XXX = Continuing calibration (CC) percent difference (%D) > 90; estimate (J) positive results and reject (R) nondetect results.
+ = Response factor (RRF) < 0.05; Estimate (J) positive results and reject (R) nondetect results.

Qualifications were not required.

SVOC and HERB

All criteria were met in the initial and continuing SVOC and HERB calibrations.

Blanks

VOC

Methylene chloride and acetone was detected in the trip and field blank samples. The presence of blank contamination indicates that false positives may exist for this compound in the associated samples. Action Levels (ALs) were established at 10x (for common contaminants) and 5x (for other compounds) the concentrations detected. The following table summarizes the AL.

Compound	Type of Blank	Associated Samples	Maximum Concentration	Action Level
Methylene chloride	Trip Blank	All samples.	3.3 ug/L	33 ug/L
Acetone Methylene chloride	Field Blank	All samples 220-3395-1, 220-3404-1, 220-3406-1 and 220-3539-1.	2.3 ug/L 1.3 ug/L	23 ug/L 13 ug/L
Acetone Methylene chloride	Field Blank	All samples 220-3395-1, 220-3404-1, 220-3406-1 and 220-3539-1.	2.0 ug/L 1.3 ug/L	20 ug/L 13 ug/L

Methylene chloride	Trip Blank	All samples 220-3395-1, 220-3404-1, 220-3406-1 and 220-3539-1.	3.7 ug/L	37 ug/L
Methylene chloride	Trip Blank	EHS-GW-01	2.1 ug/L	21 ug/L

Sample results were qualified as follows:

- If sample concentration was < the quantitation limit (QL) and ≤ the Action Level, qualify the result as a nondetect (U) at the QL.
- If sample concentration was > the QL and ≤ the Action Level, qualify the result as not detected (U) at the reported concentration.
- If the sample concentration was > the QL and > the Action Level, qualification of the data was not required.

Qualifications were not required.

SVOC and HERB

Target compounds were not detected in the SVOC and HERB method blank samples.

Surrogate Recoveries

VOC, SVOC and HERB

All criteria were met.

MS/MSD Results

VOC, SVOC and HERB

220-3406-1:
MS/MSD samples were not submitted with the data package.
220-3438-1 and 220-3509-1:
Batch MS/MSD samples were submitted with the data package.

LCS Results

VOC

The following table lists the recoveries, which were outside of control limits in the LCS analyses and the resulting validation actions.

Compound	Recovery (%)	Control Limits	Associated Samples	Validation Actions
1,1,2-trichloroethane	125	70-119	EHS-GW-03 EHS-TB-111607	Validation action was not required as all results were nondetect and therefore not affected by the potential high bias.

SVOC

The following table lists the recoveries, which were outside of control limits in the LCS analyses and the resulting validation actions.

Compound	Recovery (%)	Control Limits	Associated Samples	Validation Actions
Isophorone	107	48-106	EHS-FB-01 EHS-FB-02	Validation action was not required as all results were nondetect and therefore not affected by the potential high bias.
2-methylphenol	92	37-88		
4-nitrophenol	60	19-55		
Phenol	52	15-48		

HERB

All criteria were met.

Internal Standards

VOC and SVOC

All criteria were met.

Field Duplicate Results

VOC, SVOC and HERB

220-3406-1, 220-3438-1 and 220-3509-1:
Field duplicate samples were not submitted with the data package.

Quantitation Limits and Data Assessment

VOC, SVOC and HERB

Results were reported which were below the reporting limit (RL) and above the method detection limit (MDL) in the VOC analyses. These results were qualified as estimated (J) by the laboratory. These results were qualified as estimated (J) due to uncertainty at the low end of the calibration. Several VOC (220-3438-1) compound results with laboratory (J) qualifiers were above the lowest calibration standard therefore the J qualifiers were removed by the validator.

Sample Quantitation and Compound Identification

VOC, SVOC and HERB

Calculations were spot-checked; no discrepancies were noted in the VOC, SVOC and HERB analyses.

Site: Keyspan-East Hampton
Laboratory: Test America, CT
Report No.: 220-3539-1
Reviewer: Lisa McDonagh/GEI Consultants
Date: February 4, 2008

Samples Reviewed and Evaluation Summary

FIELD ID	LAB ID	FRACTIONS VALIDATED
EHS-GW-02	220-3539-1	VOC, SVOC, HERB
EHS-GW-04	220-3539-2	VOC, SVOC, HERB
EHS-GW-05	220-3539-3	VOC, SVOC, HERB
EHS-GW-XX-120307	220-3539-4	VOC, SVOC, HERB
EHS-TB-120407	220-3539-5	VOC
Associated QC Samples(s):	Field Blanks:	EHS-TB-120407, EHS-FB-01(220-3438-1), EHS-FB-02(220-3438-1), Trip Blank(220-3438-1)
	Field Duplicate pair:	EHS-GW-02/ EHS-GW-XX-120307

The above-listed aqueous samples were collected on December 3 and 4, 2007 and were analyzed for volatile organic compounds (VOCs) by SW-846 method 8260B, semivolatile organic compounds (SVOCs) by SW-846 method 8270C and herbicide organic compounds (HERBs) by SW-846 method 8151A. The data validation based on the USEPA Contract Laboratory Program National Functional Guidelines for Organic Data Review, January 2005 and the USEPA Region II Standard Operating Procedure (SOP) for the Validation of Organic Data acquired using SW-846 8260B, 8270C and 8151A, modified to accommodate the SW-846 methodologies.

The organic data were evaluated based on the following parameters:

* • Data Completeness
* • Holding Times and Sample Preservation
* • Gas Chromatography/Mass Spectrometry (GC/MS) Tunes
* • Initial and Continuing Calibrations
• Blanks
• Surrogate Recoveries
• Matrix Spike/Matrix Spike Duplicate (MS/MSD) Results
• Laboratory Control Sample (LCS) Results
* • Internal Standards
• Field Duplicate Results
• Quantitation Limits and Data Assessment
* • Sample Quantitation and Compound Identification

* - All criteria were met.

All results are usable for project objectives.

Qualifications were not applied to the data as a result of sampling error.
Qualifications applied to the data as a result of analytical error are discussed below.

- Potential uncertainty exists for select VOC and SVOC results, which were below the lowest calibration standard. These results were qualified as estimated (J). These results can be used for project objectives as estimated values, which may have a minor impact on the data usability.

- The nondetect results for ethylbenzene and styrene in sample EHS-GW-02 were qualified as estimated (UJ) due to low percent recovery in the evaluation of the MS/MSD. The results can be used for project objectives as estimated values, which may have a minor impact on the data usability.

The validation findings were based on the following information.

Data Completeness

The data package was complete as defined under the requirements for the NYASP category B deliverables for the VOC, SVOC and HERB analyses.

Holding Times and Sample Preservation

All holding time and sample preservation criteria were met in the VOC, SVOC and HERB analyses.

GC/MS Tunes

All criteria were met in the VOC and SVOC analyses.

Initial and Continuing Calibrations

VOC, SVOC and HERB

All criteria were met in the initial and continuing VOC, SVOC and HERB calibrations.

Blanks

VOC

Methylene chloride, acetone and 2-butanone were detected in the method and trip blank samples. The presence of blank contamination indicates that false positives may exist for this compound in the associated samples. Action Levels (ALs) were established at 10x (for common contaminants) and 5x (for other compounds) the concentrations detected. The following table summarizes the AL.

Compound	Type of Blank	Associated Samples	Maximum Concentration	Action Level
Acetone	Method Blank	All samples.	2.6 ug/L	26 ug/L
2-butanone			1.2 ug/L	12 ug/L
Methylene chloride	Trip Blank	All samples.	2.7 ug/L	27 ug/L

Sample results were qualified as follows:

- If sample concentration was < the quantitation limit (QL) and ≤ the Action Level, qualify the result as a nondetect (U) at the QL.
- If sample concentration was > the QL and ≤ the Action Level, qualify the result as not detected (U) at the reported concentration.
- If the sample concentration was > the QL and > the Action Level, qualification of the data was not required.

Qualifications were not required.

The following field and trip blanks were associated with the samples:

Compound	Type of Blank	Associated Samples	Maximum Concentration	Action Level
Acetone	Field Blank	All samples 220-3395-1, 220-3404-1,	2.3 ug/L	23 ug/L
Methylene chloride	220-3438-1	220-3406-1 and 220-3539-1.	1.3 ug/L	13 ug/L
Acetone	Field Blank	All samples 220-3395-1, 220-3404-1,	2.0 ug/L	20 ug/L
Methylene chloride	220-3438-1	220-3406-1 and 220-3539-1.	1.3 ug/L	13 ug/L
Methylene chloride	Trip Blank	All samples 220-3395-1, 220-3404-1,	3.7 ug/L	37 ug/L
	220-3438-1	220-3406-1 and 220-3539-1.		

Qualifications were not required.

SVOC and HERB

Target compounds were not detected in the SVOC and HERB method blank samples.

Surrogate Recoveries

VOC and HERB

All criteria were met.

SVOC

The following table summarizes the surrogate recoveries that failed to meet the acceptance criteria in the SVOC samples:

Sample ID	Phenol-d5	2-FP	2,4,6-TBP	NBZ	2-FBP	TP-d14 10-119
EHS-GW-05						123
EHS-GW-XX-120307						120

2-FP- 2-Fluorophenol
2,4,6-TBP – 2,4,6-Tribromophenol
NBZ – Nitrobenzene-d5
2-FBP – 2-Fluorobiphenyl
TP-d14 – Terphenyl-d14
Qualifications were not required.

MS/MSD Results

VOC

MS/MSD analyses were performed on sample EHS-GW-02. The following table lists the compounds recovered outside of control limits in the VOC analyses and the resulting validation actions.

Compound	Recovery (%)	RPD (%)	Control Limits	Validation Actions
Ethylbenzene	69/-	-	71-115	Estimate (UJ) the nondetect results for ethylbenzene and styrene in sample EHS-GW-02.
Styrene	66/-	-	69-112	

SVOC and HERB

All criteria were met.

LCS Results

VOC

The following table lists the recoveries, which were outside of control limits in the LCS analyses and the resulting validation actions.

Compound	Recovery (%)	Control Limits	Associated Samples	Validation Actions
Carbon disulfide	145	44-142	All samples.	Validation action was not required as all results were nondetect and therefore not affected by the potential high bias.

SVOC

The following table lists the recoveries, which were outside of control limits in the LCS analyses and the resulting validation actions.

Compound	Recovery (%)	Control Limits	Associated Samples	Validation Actions
Bis(2-chloroethyl)ether	98	43-97	All samples.	Validation action was not required as all results were nondetect and therefore not affected by the potential high bias.

HERB

All criteria were met.

Internal Standards

VOC and SVOC

All criteria were met.

Field Duplicate Results

Samples EHS-GW-02 and EHS-GW-XX-120307 were submitted as the field duplicate pair with this sample group.

VOC

The following table summarizes the VOC RPDs of detected analytes, all of which met criteria.

Analyte	EHS-GW-02 ug/L	EHS-GW-XX-120307 ug/L	RPD (%)
Benzene	2.8 ug/L	0.79 ug/L	112, within 1XQL.
Toluene	0.23 ug/L	0.11 ug/L	70, within 1XQL.

NC-Not calculable
For aqueous results >5xQL and RPDs>50; estimate (J) results in the field duplicate pair.
For aqueous results <5xQL; the sample and duplicate results must be within 1xQL.

SVOC and HERB

All compound results were nondetect for the SVOC and HERB field duplicate analyses. Qualifications were not required.

Quantitation Limits and Data Assessment

VOC, SVOC and HERB

Results were reported which were below the reporting limit (RL) and above the method detection limit (MDL) in the VOC and SVOC analyses. These results were qualified as estimated (J) due to uncertainty at the low end of the calibration. Some VOC compound results with laboratory (J) qualifiers were above the lowest calibration standard therefore the J qualifiers were removed by the validator.

All VOC, SVOC and HERB samples were analyzed at a 1:1 dilution.

Sample Quantitation and Compound Identification

VOC, SVOC and HERB

Calculations were spot-checked; no discrepancies were noted in the VOC, SVOC and HERB analyses.

Site: East Hampton Hortonsphere, East Hampton, NY
Laboratory: Test America, Shelton, CT
Report No.: 220-3395
Reviewer: Lorie MacKinnon/GEI Consultants
Date: January 28, 2008

Samples Reviewed and Evaluation Summary

FIELD ID	LAB ID	FRACTIONS VALIDATED
EHS-GP-02 (4-5)	220-3395-1	Pesticide, PCBs
EHS-GP-01 (4-5)	220-3395-2	Pesticide, PCBs
EHS-GP-01 (44-45)	220-3395-3	Pesticide, PCBs
EHS-GP-03 (4-5)	220-3395-4	Pesticide, PCBs
EHS-GP-04 (4-5)	220-3395-5	Pesticide, PCBs
EHS-GP-XX (XX)	220-3395-6	Pesticide, PCBs
EHS-SS-01	220-3395-7	Pesticide, PCBs
EHS-SS-XX	220-3395-8	Pesticide, PCBs
EHS-SS-02	220-3395-9	Pesticide, PCBs
EHS-SS-03	220-3395-10	Pesticide, PCBs
EHS-SS-04	220-3395-11	Pesticide, PCBs
EHS-SS-05	220-3395-12	Pesticide, PCBs
EHS-SS-06	220-3395-13	Pesticide, PCBs
EHS-GP-03 (44-45)	220-3395-14	Pesticide, PCBs
Associated QC Samples(s):	Field Blanks:	EHS-FB-01, EHS-FB-02 (reported in 220-3438)
	Field Duplicate pair:	EHS-SS-03/EHS-SS-XX and EHS-GP-02 (4-5)/EHS-GP-XX (XX)

The above-listed soil samples were collected on November 13 and 14, 2007 and were analyzed for pesticides by SW-846 method 8081A and polychlorinated biphenyls (PCBs) by SW-846 method 8082. The data validation was performed in accordance with the *USEPA Contract Laboratory Program National Functional Guidelines for Organic Data Review, EPA 540/R-99/008* (October 1999) and the *USEPA Region II Functional Guidelines for Evaluating Organic Analyses* (March 2001), modified as necessary to accommodate the non-CLP methodology used.

The organic data were evaluated based on the following parameters:

*	• Data Completeness
	• Holding Times and Sample Preservation
NA	• Gas Chromatography/Mass Spectrometry (GC/MS) Tunes
*	• GC/Electron Capture Detector (GC/ECD) Instrument Performance Checks
	• Initial and Continuing Calibrations

	•	Blanks
	•	Surrogate Recoveries
	•	Matrix Spike/Matrix Spike Duplicate (MS/MSD) Results
*	•	Laboratory Control Sample (LCS) Results
*	•	Moisture Content
NA	•	Internal Standards
	•	Field Duplicate Results
	•	Quantitation Limits and Data Assessment
	•	Sample Quantitation and Compound Identification

* - All criteria were met.

NA – Not applicable to the method reviewed.

All results are usable for project objectives.

Qualifications applied to the data as a result of sampling error are discussed below.

- The positive results for 4,4'-DDE in samples EHS-SS-03 and EHS-SS-XX were qualified as estimated (J) due to a high relative percent difference (RPD) in the evaluation of the field duplicate. The direction of the bias cannot be determined from this nonconformance. The results can be used for project objectives as estimated values which may have a minor impact on the data usability.

Qualifications applied to the data as a result of analytical error are discussed below.

- Potential uncertainty exists for select pesticide results which were below the lowest calibration standard and quantitation limit. These results were qualified as estimated (J). These results can be used for project objectives as estimated values which may have a minor impact on the data usability.

- The positive and nondetect results for all pesticides in sample EHS-SS-04 were qualified as estimated (J/UJ) due to an exceedance in holding time. The results may be biased low. The results can be used for project objectives as estimated values and nondetects with estimated quantitation limits which may have a minor impact on the data usability.

- The positive and nondetect results for 4,4'-DDT and 4,4'-DDD in all samples were estimated (J/UJ) due to continuing calibration nonconformances. The direction of the bias cannot be determined from these nonconformances. The results can be used for project objectives as estimated values and nondetects with estimated quantitation limits which may have a minor impact on the data usability.

- The positive and nondetect PCB results for sample EHS-SS-03 were qualified as estimated (J/UJ) due to low surrogate recoveries. The results may be biased low. The

results can be used for project objectives as estimated values and nondetects with estimated quantitation limits which may have a minor impact on the data usability.

- The positive results for 4,4'-DDD, 4,4'-DDE, 4,4'-DDT, alpha-BHC, and endrin aldehyde in sample EHS-SS-03 were qualified as estimated (J) due to high surrogate recoveries. The results may be biased high. The results can be used for project objectives as estimated values which may have a minor impact on the data usability.

- The positive and nondetect results for Aroclor 1016, Aroclor 1260, and 4,4'-DDT in sample EHS-SS-06 were qualified as estimated (J/UJ) due to low recoveries in the MS/MSD. The results may be biased low. The result can be used for project objectives as estimated values and nondetects with estimated quantitation limits which may have a minor impact on the data usability.

- The positive results for 4,4'-DDD, endrin ketone, and gamma-chlordane in sample EHS-GP-03 (4-5), gamma-chlordane, dieldrin, endosulfan II, and endosulfan sulfate in sample EHS-SS-01, gamma-chlordane and endosulfan II in sample EHS-SS-XX, heptachlor epoxide, gamma-chlordane, alpha-chlordane, and dieldrin in sample EHS-SS-02, delta-BHC, heptachlor epoxide, gamma-chlordane, endosulfan I, dieldrin, and endosulfan II in sample EHS-SS-03, gamma-chlordane, alpha-chlordane, and endosulfan II in sample EHS-SS-04, gamma-chlordane and dieldrin in sample EHS-SS-05, and 4,4'-DDD in sample EHS-SS-06 were qualified as nondetect (U) at the reporting limit due to the high dual column relative percent difference (%RPD). The result can be used for project objectives as a nondetect which may have a minor impact on the data usability.

- The positive results for heptachlor epoxide in sample EHS-GP-01 (44-45), endrin aldehyde in sample EHS-GP-03 (4-5), 4,4'-DDD in sample EHS-SS-01, endosulfan sulfate in sample EHS-SS-XX, 4,4'-DDE and 4,4'-DDD in sample EHS-SS-03, alpha-BHC and Aroclor 1260 in sample EHS-SS-03, dieldrin and endosulfan sulfate in sample EHS-SS-04, endosulfan sulfate in sample EHS-SS-05, dieldrin in sample EHS-SS-06, and heptachlor epoxide in sample EHS-GP-03 (44-45) were qualified as estimated (J) due to the high dual column relative percent differences (%RPDs). The direction of the bias cannot be determined. The results can be used for project objectives as estimated values which may have a minor impact on the data usability.

- The positive result for endrin aldehyde in sample EHS-SS-03 were qualified as presumptively present (JN) due to the dual column RPD greater than 70. The direction of the bias cannot be determined. The result can be used for project objectives as a compound which is presumptively present at an approximated quantity which may have a minor impact on the data usability.

The validation findings were based on the following information.

Data Completeness

The data package was complete as defined under the requirements for the NYSDEC ASP category B laboratory deliverables for the pesticide and PCB analyses.

Holding Times and Sample Preservation

PCB

All holding time and sample preservation criteria were met in the PCB analyses.

Pesticide

Due to poor surrogate recoveries in the initial analysis of sample EHS-SS-04, the laboratory re-extracted the pesticide sample five days outside of holding time. As surrogate recoveries were acceptable in the re-extraction, those results were reported. The positive and nondetect pesticide results for sample EHS-SS-04 were estimated (J/UJ) due to the holding time exceedance.

GC/ECD Instrument Performance Checks

All criteria were met.

Initial and Continuing Calibrations

Pesticides

Compounds that did not meet criteria in the pesticide continuing calibrations are summarized in the following table.

Instrument ID HP6890-7 Compound	**CC 12/03/07 14:30 CLP -pest II**	**CC 12/03/07 22:54 RTX-CLP**	**CC 12/03/07 22:54 CLP -pest II**
4,4'-DDT	XX (15.1%)		
4,4'-DDD		XX (17.8%)	XX (25.1%)
Samples Affected	All samples	All samples	All samples

X = Initial calibration (IC) relative standard deviation (%RSD) > 30 for GC/MS (VOC and SVOC) and >20 for GC (pesticide/PCBs and herbicides) ; estimate (J) positive and blank-qualified (UJ) results only.

XX = Continuing calibration (CC) percent difference (%D) > 25 for GC/MS and >15 for GC; estimate (J/UJ) positive and nondetect results.

XXX = Continuing calibration (CC) percent difference (%D) > 90; estimate (J) positive results and reject (R) nondetect results.

The positive and nondetect results for 4,4'-DDT and 4,4'-DDD in all samples were estimated (J/UJ) due to continuing calibration nonconformances.

PCB

All criteria were met.

Blanks

PCBs

Target compounds were not detected in the laboratory method and instrument blanks. Target compounds were not detected in the associated field samples EHS-FB-01 and EHS-FB-02, which were reported in case number 220-3438.

Pesticides

Target compounds were not detected in the pesticide method and instrument blanks.

Target compounds were detected in the field blank sample, EHS-FB-01, which was reported in case number 220-3438. The presence of blank contamination indicates that false positives may exist for this compound in the associated samples. Action Levels (ALs) were established at 5x the concentration detected. The following table summarizes the ALs.

Compound	Type of Blank	Associated Samples	Maximum Concentration	Action Level
Gamma-chlordane	EHS-FB-01	All samples	0.018 ug/L, 0.6 ug/kg	3.0 ug/kg

Sample results were qualified as follows:

- If sample concentration was < the quantitation limit (QL) and ≤ the Action Level, qualify the result as a nondetect (U) at the QL.
- If sample concentration was > the QL and ≤ the Action Level, qualify the result as not detected (U) at the reported concentration.
- If the sample concentration was > the QL and > the Action Level, qualification of the data was not required.

The positive result for gamma-chlordane in sample EHS-SS-06 was qualified as nondetect (U) at the reporting limit due to field blank contamination.

Surrogate Recoveries

Pesticide

The following table lists the surrogates recovered outside of control limits and the resulting actions.

Sample Soil Limits	DCB1 25-159	DCB2 25-159	TCMX1 24-154	TCMX2 24-154	Validation actions
EHS-SS-03	329%	230%	-	-	Estimate (J) the positive results for 4,4'-DDD, 4,4'-DDE, 4,4'-DDT, alpha-BHC, and endrin aldehyde in sample EHS-SS-03.
EHS-SS-04	200	-	-	-	Validation action was not required as the surrogate recovery was within control limits on the alternate column.
EHS-SS-06	191	-	-	-	Validation action was not required as the surrogate recovery was within control limits on the alternate column.

- Criteria met

PCB

The following table lists the surrogates recovered outside of control limits and the resulting actions.

Sample Soil Limits	DCB1 25-159	DCB2 25-159	TCMX1 24-154	TCMX2 24-154	Validation actions
EHS-SS-03	-	-	21	18	Estimate (J/UJ) the positive and nondetect PCB results for sample EHS-SS-03.
EHS-SS-04	-	16	-	12	Validation action was not required. The sample was re-extracted; as surrogate recoveries were within control limits, the re-extraction analysis was reported.

- Criteria met

MS/MSD Results

Pesticides and PCBs

MS/MSD analyses were performed on sample EHS-SS-06. The following table lists the compounds recovered outside of control limits and the resulting validation actions.

Compound	Recovery (%)	RPD (%)	Control Limits	Validation Actions
Aroclor 1016	MS 25	102	42-130/50	Estimate (UJ) the nondetect results for Aroclor 1016 and Aroclor 1260 in sample EHS-SS-06.
Aroclor 1260	MS 27	106	50-128/50	

Compound	Recovery (%)	RPD (%)	Control Limits	Validation Actions
4,4'-DDT	30, 8	-	58-151/50	Estimate (J) the positive result for 4,4'-DDT in sample EHS-SS-06.

- criteria met

MS/MSD analyses were performed on sample EHS-GP-02 (4-5). All criteria were met.

LCS Results

Pesticide and PCBs

All criteria were met in the pesticide and PCB analyses.

Moisture Content

All criteria were met.

Field Duplicate Results

Samples EHS-SS-03 and EHS-SS-XX were submitted as the field duplicate pair with this sample group. The following table summarizes the RPDs of the detected analytes, which were acceptable with the exception of 4,4'-DDE. The positive results for 4,4'-DDE in samples EHS-SS-03 and EHS-SS-XX were estimated (J).

Compound	**EHS-SS-03 (ug/kg)**	**EHS-SS-XX (ug/kg)**	**RPD (%)**
4,4'-DDD	20	4.6	125, Within 2xQL
4,4'-DDE	46	85	59.5
4,4'-DDT	79	86	8.5
Endosulfan sulfate	8.3 U	6.5	NC, Within 2xQL
Alpha-BHC	1.9	12 U	NC, Within 2xQL
Endrin aldehyde	15	24 U	NC, Within 2xQL
Aroclor 1260	24	24 U	NC, Within 2xQL

NC – Not calculable
For soil results > 5xQL and RPDs >50; estimate (J) results in the field duplicate pair.
For soil results < 5xQL; the sample and duplicate results must be within 2xQL.

Samples EHS-GP-02 (4-5) and EHS-GP-XX (XX) were submitted as the field duplicate pair with this sample group. All results are nondetect in these samples.

Quantitation Limits and Data Assessment

Pesticides

Results were reported which were below the reporting limit (RL) and above the MDL in the pesticide analyses. These results were qualified as estimated (J) by the laboratory.

Due to high target compound levels, samples EHS-SS-01, EHS-SS-XX, EHS-SS-02, and EHS-SS-06 were analyzed at 5-fold dilutions and sample EHS-SS-03 was analyzed at a 2-fold dilution. Quantitation limits were elevated accordingly.

PCBs

All criteria were met.

Sample Quantitation and Compound Identification

Pesticide and PCBs

Calculations were spot-checked; no discrepancies were noted in the PCB analyses.

For sample EHS-GP-03 (4-5), gamma-chlordane was detected within the retention time windows on both columns but was reported incorrectly as nondetect on the sample reporting form. The validator edited the reporting form for sample EHS-GP-03 (4-5). This result was subsequently qualified as nondetect at the reporting limit due to high dual column difference. For sample EHS-GP-03 (44-45), heptachlor epoxide was detected within the retention time windows on both columns but was reported incorrectly as nondetect on the sample reporting form. The validator edited the reporting form for sample EHS-GP-03 (44-45).

The following table lists the dual column RPDs which were outside of control limits and the resulting actions.

Sample	Compound	RPD (%)	Actions
EHS-GP-01 (44-45)	Heptachlor epoxide	29.1	Estimate (J) the positive result for heptachlor epoxide.
EHS-GP-03 (4-5)	4,4'-DDD Endrin ketone Gamma-chlordane	84.2 123.3 171.6	Results were less than the reporting limit; qualify the results as nondetect at the reporting limit.
EHS-GP-03 (4-5)	Endrin aldehyde	32.4	Estimate (J) the positive result for endrin aldehyde.

Sample	Compound	RPD (%)	Actions
EHS-SS-01	Gamma-chlordane Dieldrin Endosulfan II Endosulfan sulfate	149.0 103.6 64.7 63.6	Results were less than the reporting limit; qualify the results as nondetect at the reporting limit.
EHS-SS-01	4,4'-DDD	38.8	Estimate (J) the positive result for 4,4'-DDD.
EHS-SS-XX	Gamma-chlordane Endosulfan II	51.6 52.6	Results were less than the reporting limit; qualify the results as nondetect at the reporting limit.
EHS-SS-XX	Endosulfan sulfate	30.3	Estimate (J) the positive result for endosulfan sulfate.
EHS-SS-02	Heptachlor epoxide Gamma-chlordane Alpha-chlordane Dieldrin	82.3 190.6 74.2 78.9	Results were less than the reporting limit; qualify the results as nondetect at the reporting limit.
EHS-SS-02	4,4'-DDE 4,4'-DDD	40.9 45.2	Estimate (J) the positive results for 4,4'-DDE and 4,4'-DDD.
EHS-SS-03	Delta-BHC Heptachlor epoxide Gamma-chlordane Endosulfan I Dieldrin Endosulfan II	88.0 55.0 169.1 86.9 162.1 154.7	Results were less than the reporting limit; qualify the results as nondetect at the reporting limit.
EHS-SS-03	Alpha-BHC Aroclor 1260	41.7 68.8	Estimate (J) the positive results for alpha-BHC and Aroclor 1260.
EHS-SS-03	Endrin aldehyde	82.4	Possible interference present; qualify the result for endrin aldehyde as presumptively present (JN).
EHS-SS-04	Gamma-chlordane Alpha-chlordane Endosulfan II	188.7 104.8 101.6	Results were less than the reporting limit; qualify the results as nondetect at the reporting limit.
EHS-SS-04	Dieldrin Endosulfan sulfate	52.2 47.5	Estimate (J) the positive results for dieldrin and endosulfan sulfate.
EHS-SS-05	Gamma-chlordane Dieldrin	197.1 123.5	Results were less than the reporting limit; qualify the results as nondetect at the reporting limit.
EHS-SS-05	Endosulfan sulfate	34.4	Estimate (J) the positive result for endosulfan sulfate.
EHS-GP-03 (44-45)	Heptachlor epoxide	41.1	Estimate (J) the positive result for heptachlor epoxide.

Sample	Compound	RPD (%)	Actions
EHS-SS-06	4,4'-DDD	72.1	Result was less than the reporting limit; qualify the result as nondetect at the reporting limit.
EHS-SS-06	Dieldrin	43.3	Estimate (J) the positive result for dieldrin.

For PCB %RPD >50%; If pattern is present, estimate (J) the positive result.
For Pesticide %RPDs between 25 and 70%; estimate (J) the positive result.
For Pesticide %RPDs between 70and 100%; qualify the result as presumptively present (JN).
For pesticide %RPD >50% and the result < QL; raise the value to the QL and qualify as nondetect (U).
For pesticide %RPD > 100% and interference is present; qualify the result as presumptively present (JN).
For pesticide %RPD > 100% and interference is not present; reject (R) result.

Site: East Hampton Hortonsphere, East Hampton, NY
Laboratory: Test America, Shelton, CT
Report No.: 220-3404
Reviewer: Lorie MacKinnon/GEI Consultants
Date: January 28, 2008

Samples Reviewed and Evaluation Summary

FIELD ID	LAB ID	FRACTIONS VALIDATED
EHS-GP-04 (44-45)	220-3404-1	Pesticides, PCBs
EHS-GP-05 (4-5)	220-3404-2	Pesticides, PCBs
EHS-GP-05 (44-45)	220-3404-3	Pesticides, PCBs
EHS-GP-02 (43-45)	220-3404-5	Pesticides, PCBs
Associated QC Samples(s):	Field Blanks:	EHS-FB-01, EHS-FB-02 (reported in 220-3438)
	Field Duplicate pair:	None associated

The above-listed soil samples were collected on November 15 and 16, 2007 and were analyzed for pesticides by SW-846 method 8081A and polychlorinated biphenyls (PCBs) by SW-846 method 8082. The data validation was performed in accordance with the *USEPA Contract Laboratory Program National Functional Guidelines for Organic Data Review, EPA 540/R-99/008* (October 1999) and the *USEPA Region II Functional Guidelines for Evaluating Organic Analyses* (March 2001), modified as necessary to accommodate the non-CLP methodology used.

The organic data were evaluated based on the following parameters:

*	•	Data Completeness
*	•	Holding Times and Sample Preservation
NA	•	Gas Chromatography/Mass Spectrometry (GC/MS) Tunes
*	•	GC/Electron Capture Detector (GC/ECD) Instrument Performance Checks
	•	Initial and Continuing Calibrations
*	•	Blanks
*	•	Surrogate Recoveries
	•	Matrix Spike/Matrix Spike Duplicate (MS/MSD) Results
*	•	Laboratory Control Sample (LCS) Results
*	•	Moisture Content
NA	•	Internal Standards
NA	•	Field Duplicate Results
*	•	Quantitation Limits and Data Assessment
	•	Sample Quantitation and Compound Identification

* - All criteria were met.

NA – Not applicable to the method reviewed and a field duplicate pair was not associated with the sample group.

All results are usable for project objectives.

Qualifications were not applied to the data as a result of sampling error. Qualifications applied to the data as a result of analytical error are discussed below.

- The positive results for heptachlor epoxide in samples EHS-GP-05 (44-45) and EHS-GP-02 (43-45) were qualified as nondetect (U) at the reporting limit due to the high dual column relative percent differences (%RPDs). The results can be used for project objectives as nondetects which may have a minor impact on the data usability.

The validation findings were based on the following information.

Data Completeness

The data package was complete as defined under the requirements for the NYSDEC ASP category B laboratory deliverables for the pesticide and PCB analyses.

Holding Times and Sample Preservation

All holding time and sample preservation criteria were met in the pesticide and PCB analyses.

GC/ECD Instrument Performance Checks

All criteria were met.

Initial and Continuing Calibrations

Pesticides

All criteria were met in the initial and continuing calibrations.

PCB

The following table lists the Aroclor peak continuing calibration results which were outside of control limits. No validation actions were required as the Aroclor %D averages for the standards were within control limits.

Compound	Calibration Date	Instrument ID/Column	%D
Aroclor 1260-5	12/01/07 04:18	HP5890-4/CLP	18.8%
Average Aroclor 1260			7.0%

Blanks

Pesticide and PCBs

Target compounds were not detected in the laboratory method and instrument blanks. Target compounds were not detected in the associated field samples EHS-FB-01 and EHS-FB-02, which were reported in case number 220-3438.

Surrogate Recoveries

All criteria were met in the pesticide and PCB analyses.

MS/MSD Results

Pesticides and PCBs

MS/MSD analyses were not associated with this sample group.

LCS Results

All criteria were met in the pesticide and PCB analyses.

Moisture Content

All criteria were met.

Field Duplicate Results

A field duplicate pair was not associated with this sample group.

Quantitation Limits and Data Assessment

All criteria were met in the pesticide and PCB analyses

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Sample Quantitation and Compound Identification

Calculations were spot-checked; no discrepancies were noted in the pesticide and PCB analyses.

The following table lists the dual column RPDs which were outside of control limits and the resulting actions.

Sample	Compound	RPD (%)	Actions
EHS-GP-05 (44-45)	Heptachlor epoxide	93.6	Result was less than the reporting limit; qualify the result as nondetect at the reporting limit.
EHS-GP-02 (43-45)	Heptachlor epoxide	53.1	Result was less than the reporting limit; qualify the result as nondetect at the reporting limit.

For PCB %RPD >50%; If pattern is present, estimate (J) the positive result.
For Pesticide %RPDs between 25 and 70%; estimate (J) the positive result.
For Pesticide %RPDs between 70and 100%; qualify the result as presumptively present (JN).
For pesticide %RPD >50% and the result < QL; raise the value to the QL and qualify as nondetect (U).
For pesticide %RPD > 100% and interference is present; qualify the result as presumptively present (JN).
For pesticide %RPD > 100% and interference is not present; reject (R) result.

Site: East Hampton Hortonsphere, East Hampton, NY
Laboratory: Test America, Shelton, CT
Report No.: 220-3406, 220-3438, 220-3509
Reviewer: Lorie MacKinnon/GEI Consultants
Date: January 28, 2008

Samples Reviewed and Evaluation Summary

FIELD ID	LAB ID	FRACTIONS VALIDATED
EHS-FB-01	220-3438-1	Pesticide, PCBs
EHS-FB-02	220-3438-2	Pesticide, PCBs
EHS-GW-01	220-3509-1	Pesticide, PCBs
EHS-GW-03	220-3406-1	Pesticide, PCBs
Associated QC Samples(s):	Field Blanks:	EHS-FB-01, EHS-FB-02
	Field Duplicate pair:	None associated

The above-listed aqueous samples and field blank samples were collected on November 16, 19, and 29, 2007 and were analyzed for pesticides by SW-846 method 8081A and polychlorinated biphenyls (PCBs) by SW-846 method 8082. The data validation was performed in accordance with the *USEPA Contract Laboratory Program National Functional Guidelines for Organic Data Review, EPA 540/R-99/008* (October 1999) and the *USEPA Region II Functional Guidelines for Evaluating Organic Analyses* (March 2001), modified as necessary to accommodate the non-CLP methodology used.

The organic data were evaluated based on the following parameters:

*	•	Data Completeness
*	•	Holding Times and Sample Preservation
NA	•	Gas Chromatography/Mass Spectrometry (GC/MS) Tunes
*	•	GC/Electron Capture Detector (GC/ECD) Instrument Performance Checks
	•	Initial and Continuing Calibrations
*	•	Blanks
*	•	Surrogate Recoveries
	•	Matrix Spike/Matrix Spike Duplicate (MS/MSD) Results
	•	Laboratory Control Sample (LCS) Results
NA	•	Moisture Content
NA	•	Internal Standards
NA	•	Field Duplicate Results
	•	Quantitation Limits and Data Assessment
	•	Sample Quantitation and Compound Identification

* - All criteria were met.

NA – Not applicable to the method or matrix reviewed and a field duplicate was not associated with the sample set.

All results are usable for project objectives.

Qualifications were not applied to the data as a result of sampling error. Qualifications applied to the data as a result of analytical error are discussed below.

- Potential uncertainty exists for select pesticide and PCB results which were below the lowest calibration standard and quantitation limit. These results were qualified as estimated (J). These results can be used for project objectives as estimated values which may have a minor impact on the data usability.

- The positive and nondetect results for methoxychlor, endrin aldehyde, and endrin ketone in samples EHS-GW-03, EHS-FB-01, and EHS-FB-02 and heptachlor, endrin ketone, and endrin aldehyde in sample EHS-GW-01 were estimated (J/UJ) due to continuing calibration nonconformances. The direction of the bias cannot be determined from these nonconformances. The results can be used for project objectives as estimated values and nondetects with estimated quantitation limits which may have a minor impact on the data usability.

- The positive result for gamma-chlordane in sample EHS-FB-01 was qualified as nondetect (U) at the QL due to the high dual column relative percent difference (%RPD). The direction of the bias cannot be determined. The result can be used for project objectives as a nondetect which may have a minor impact on the data usability.

The validation findings were based on the following information.

Data Completeness

The data package was complete as defined under the requirements for the NYSDEC ASP category B laboratory deliverables for the pesticide and PCB analyses.

Holding Times and Sample Preservation

All holding time and sample preservation criteria were met in the pesticide and PCB analyses.

GC/ECD Instrument Performance Checks

All criteria were met.

Initial and Continuing Calibrations

Pesticides

Compounds that did not meet criteria in the pesticide continuing calibrations are summarized in the following table.

Instrument ID HP6890-7 Compound	CC 11/29/07 23:02 CLP	CC 11/29/07 23:02 CLP Pesticide 2
Methoxychlor	XX (17.1%)	XX (19.6%)
Endrin aldehyde		XX (15.7%)
Endrin ketone		XX (18.9%)
Samples Affected	EHS-GW-03, EHS-FB-01, EHS-FB-02	EHS-GW-03, EHS-FB-01, EHS-FB-02

Instrument ID HP6890-7 Compound	CC 12/13/07 20:24 CLP	CC 12/13/07 20:24 CLP Pesticide 2
Heptachlor	XX (20.6%)	XX (21.3%)
Endrin aldehyde		XX (17.0%)
Endrin ketone	XX (15.7%)	
Samples Affected	EHS-GW-01	EHS-GW-01

X = Initial calibration (IC) relative standard deviation (%RSD) > 30 for GC/MS (VOC and SVOC) and >20 for GC (pesticide/PCBs and herbicides) ; estimate (J) positive and blank-qualified (UJ) results only.

XX = Continuing calibration (CC) percent difference (%D) > 25 for GC/MS and >15 for GC; estimate (J/UJ) positive and nondetect results.

XXX = Continuing calibration (CC) percent difference (%D) > 90; estimate (J) positive results and reject (R) nondetect results.

The positive and nondetect results for methoxychlor, endrin aldehyde, and endrin ketone in samples EHS-GW-03, EHS-FB-01, and EHS-FB-02 and heptachlor, endrin ketone, and endrin aldehyde in sample EHS-GW-01 were estimated (J/UJ) due to continuing calibration nonconformances.

PCB

All criteria were met.

Blanks

Pesticide and PCBs

Target compounds were not detected in the laboratory method and instrument blanks. Target compounds were not detected in the associated field samples EHS-FB-01 and EHS-FB-02.

Surrogate Recoveries

All criteria were met in the pesticide and PCB analyses.

MS/MSD Results

Pesticide and PCBs

MS/MSD analyses were performed on sample EHS-GW-03. All criteria were met.

LCS Results

PCBs

All criteria were met.

Pesticides

Endrin aldehyde (111) was recovered above the control limits of 20-92 in the LCS analysis associated with sample EHS-GW-01. Validation action was not required as the result for endrin aldehyde in sample EHS-GW-01 was nondetect and therefore not affected by the potential high bias.

Field Duplicate Results

A field duplicate pair was not associated with this sample group.

Quantitation Limits and Data Assessment

Pesticides

Results were reported which were below the reporting limit (RL) and above the MDL in the pesticide analyses. These results were qualified as estimated (J) by the laboratory.

PCBs

All criteria were met.

Sample Quantitation and Compound Identification

Calculations were spot-checked; no discrepancies were noted in the pesticide and PCB analyses.

The following table lists the dual column RPDs which were outside of control limits and the resulting actions.

Sample	Compound	RPD (%)	Actions
EHS-FB-01	Gamma-chlordane	57.7	The result is less than the QL, estimate the result for gamma-chlordane as nondetect at the reporting limit.

For PCB %RPD >50%; If pattern is present, estimate (J) the positive result.
For Pesticide %RPDs between 25 and 70%; estimate (J) the positive result.
For Pesticide %RPDs between 70and 100%; qualify the result as presumptively present (JN).
For pesticide %RPD >50% and the result < QL; raise the value to the QL and qualify as nondetect (U).
For pesticide %RPD > 100% and interference is present; qualify the result as presumptively present (JN).
For pesticide %RPD > 100% and interference is not present; reject (R) result.

Site: East Hampton Hortonsphere, East Hampton, NY
Laboratory: Test America, Shelton, CT
Report No.: 220-3539
Reviewer: Lorie MacKinnon/GEI Consultants
Date: January 28, 2008

Samples Reviewed and Evaluation Summary

FIELD ID	LAB ID	FRACTIONS VALIDATED
EHS-GW-02	220-3539-1	Pesticide, PCBs
EHS-GW-04	220-3539-2	Pesticide, PCBs
EHS-GW-05	220-3539-3	Pesticide, PCBs
EHS-GW-XX-120307	220-3539-4	Pesticide, PCBs
Associated QC Samples(s):	Field Blanks:	EHS-FB-01, EHS-FB-02 (reported in 220-3438)
	Field Duplicate pair:	EHS-GW-02/EHS-GW-XX-120307

The above-listed aqueous samples were collected on December 3, 2007 and were analyzed for pesticides by SW-846 method 8081A and polychlorinated biphenyls (PCBs) by SW-846 method 8082. The data validation was performed in accordance with the *USEPA Contract Laboratory Program National Functional Guidelines for Organic Data Review, EPA 540/R-99/008* (October 1999) and the *USEPA Region II Functional Guidelines for Evaluating Organic Analyses* (March 2001), modified as necessary to accommodate the non-CLP methodology used.

The organic data were evaluated based on the following parameters:

*	•	Data Completeness
*	•	Holding Times and Sample Preservation
NA	•	Gas Chromatography/Mass Spectrometry (GC/MS) Tunes
*	•	GC/Electron Capture Detector (GC/ECD) Instrument Performance Checks
	•	Initial and Continuing Calibrations
*	•	Blanks
*	•	Surrogate Recoveries
	•	Matrix Spike/Matrix Spike Duplicate (MS/MSD) Results
*	•	Laboratory Control Sample (LCS) Results
NA	•	Moisture Content
NA	•	Internal Standards
*	•	Field Duplicate Results
	•	Quantitation Limits and Data Assessment
	•	Sample Quantitation and Compound Identification

* - All criteria were met.

NA – Not applicable to the method or matrix reviewed.

All results are usable for project objectives.

Qualifications were not applied to the data as a result of sampling error. Qualifications applied to the data as a result of analytical error are discussed below.

- Potential uncertainty exists for select pesticide and PCB results which were below the lowest calibration standard and quantitation limit. These results were qualified as estimated (J). These results can be used for project objectives as estimated values which may have a minor impact on the data usability.

- The positive and nondetect results for endrin aldehyde and 4,4'-DDT in all samples were estimated (J/UJ) due to continuing calibration nonconformances. The direction of the bias cannot be determined from these nonconformances. The results can be used for project objectives as estimated values and nondetects with estimated quantitation limits which may have a minor impact on the data usability.

- The positive result for dieldrin in sample EHS-GW-05 was qualified as nondetect (U) at the reporting limit due to the high dual column relative percent difference (%RPD). The result can be used for project objectives as a nondetect which may have a minor impact on the data usability.

- The positive result for 4,4'-DDD in sample EHS-GW-02 was qualified as estimated (J) due to the high dual column relative percent difference (%RPD). The direction of the bias cannot be determined. The result can be used for project objectives as an estimated value which may have a minor impact on the data usability.

The validation findings were based on the following information.

Data Completeness

The data package was complete as defined under the requirements for the NYSDEC ASP category B laboratory deliverables for the pesticide and PCB analyses.

Holding Times and Sample Preservation

All holding time and sample preservation criteria were met in the pesticide and PCB analyses.

GC/ECD Instrument Performance Checks

All criteria were met.

Initial and Continuing Calibrations

Pesticides

Compounds that did not meet criteria in the pesticide continuing calibrations are summarized in the following table.

Instrument ID HP6890-7 Compound	CC 12/16/07 01:16 CLP
Endrin aldehyde	XX (15.4%)
4,4'-DDT	XX (16.9%)
Samples Affected	All samples

X = Initial calibration (IC) relative standard deviation (%RSD) > 30 for GC/MS (VOC and SVOC) and >20 for GC (pesticide/PCBs and herbicides) ; estimate (J) positive and blank-qualified (UJ) results only.
XX = Continuing calibration (CC) percent difference (%D) > 25 for GC/MS and >15 for GC; estimate (J/UJ) positive and nondetect results.
XXX = Continuing calibration (CC) percent difference (%D) > 90; estimate (J) positive results and reject (R) nondetect results.

The positive and nondetect results for endrin aldehyde and 4,4'-DDT in all samples were estimated (J/UJ) due to continuing calibration nonconformances.

PCB

All criteria were met.

Blanks

Pesticides and PCBs

Target compounds were not detected in the laboratory method and instrument blanks. Target compounds were not detected in the associated field samples EHS-FB-01 and EHS-FB-02, which were reported in case number 220-3438.

Surrogate Recoveries

All criteria were met in the pesticide and PCB analyses.

MS/MSD Results

Pesticide and PCBs

MS/MSD analyses were not associated with the samples in this case number.

LCS Results

All criteria were met in the pesticide and PCB analyses.

Field Duplicate Results

Samples EHS-GW-02 and EHS-GW-XX-120307 were submitted as the field duplicate pair with this sample group. The following table summarizes the RPDs of the detected analytes, all of which were acceptable.

Compound	EHS-GW-02 (ug/L)	EHS-GW-XX-120307 (ug/L)	RPD (%)
Aroclor 1260	0.16	0.50 U	NC, Within QL
4,4'-DDD	0.030	0.15 U	NC, Within QL
Dieldrin	0.012	0.10 U	NC, Within QL

NC – Not calculable
For aqueous results > 5xQL and RPDs >30; estimate (J) results in the field duplicate pair.
For aqueous results < 5xQL; the sample and duplicate results must be within the QL.

Quantitation Limits and Data Assessment

Pesticides and PCBs

Results were reported which were below the reporting limit (RL) and above the MDL in the pesticide analyses. These results were qualified as estimated (J) by the laboratory.

Sample Quantitation and Compound Identification

Pesticide and PCBs

Calculations were spot-checked; no discrepancies were noted in the pesticide and PCB analyses. The following table lists the dual column RPDs which were outside of control limits and the resulting actions.

Sample	Compound	RPD (%)	Actions
EHS-GW-02	4,4'-DDD	25.4	Estimate (J) the positive result for 4,4'-DDD.
EHS-GW-05	Dieldrin	71.2	Result was less than the reporting limit; qualify the result as nondetect at the reporting limit.

For PCB %RPD >50%; If pattern is present, estimate (J) the positive result.
For Pesticide %RPDs between 25 and 70%; estimate (J) the positive result.
For Pesticide %RPDs between 70and 100%; qualify the result as presumptively present (JN).
For pesticide %RPD >50% and the result < QL; raise the value to the QL and qualify as nondetect (U).
For pesticide %RPD > 100% and interference is present; qualify the result as presumptively present (JN).
For pesticide %RPD > 100% and interference is not present; reject (R) result.

Site: East Hampton Hortonsphere, East Hampton, NY
Laboratory: Test America, Shelton, CT
Report No.: 220-3395
Reviewer: Lorie MacKinnon/GEI Consultants
Date: January 31, 2007

Samples Reviewed and Evaluation Summary

FIELD ID	LAB ID	FRACTIONS VALIDATED
EHS-GP-02 (4-5)	220-3395-1	Metals, Sulfate, Sulfide
EHS-GP-01 (4-5)	220-3395-2	Metals, Sulfate, Sulfide
EHS-GP-01 (44-45)	220-3395-3	Metals, Sulfate, Sulfide
EHS-GP-03 (4-5)	220-3395-4	Metals, Sulfate, Sulfide
EHS-GP-04 (4-5)	220-3395-5	Metals, Sulfate, Sulfide
EHS-GP-XX (XX)	220-3395-6	Metals, Sulfate, Sulfide
EHS-SS-01	220-3395-7	Metals, Sulfate, Sulfide
EHS-SS-XX	220-3395-8	Metals, Sulfate, Sulfide
EHS-SS-02	220-3395-9	Metals, Sulfate, Sulfide
EHS-SS-03	220-3395-10	Metals, Sulfate, Sulfide
EHS-SS-04	220-3395-11	Metals, Sulfate, Sulfide
EHS-SS-05	220-3395-12	Metals, Sulfate, Sulfide
EHS-SS-06	220-3395-13	Metals, Sulfate, Sulfide
EHS-GP-03 (44-45)	220-3395-14	Metals, Sulfate, Sulfide
Associated QC Samples(s):	Field Blanks:	EHS-FB-01, EHS-FB-02 (reported in 220-3438)
	Field Duplicate pair:	EHS-SS-03/EHS-SS-XX and EHS-GP-02 (4-5)/EHS-GP-XX (XX)

The above-listed soil samples were collected on November 13 and 14, 2007 and were analyzed for metals by SW-846 methods 6010B/7471A, sulfate by EPA method 300.0, and sulfide by EPA method 376.1. The data validation was performed in accordance with the and the *USEPA Contract Laboratory Program National Functional Guidelines for Inorganic Data Review, EPA 540/R-04/004* (October 2004) and USEPA Region 2 *Standard Operating Procedure for the Evaluation of Metals for the Contract Laboratory Program,* SOP HW-2, Revision 13 (September 2005), modified as necessary to accommodate the non-CLP methodologies used.

The inorganic data were evaluated based on the following parameters:

* • Overall Evaluation of Data and Potential Usability Issues
* • Data Completeness
* • Holding Times and Sample Preservation
* • Instrument Calibration
* • Contract Required Quantitation Limit (CRQL) Standard Recoveries

- Blank Analysis Results
- Inductively Coupled Plasma (ICP) Interference Check Sample (ICS) Results
- Matrix Spike/Matrix Spike Duplicate (MS/MSD) Results
* • Laboratory Duplicate Results
- Field Duplicate Results
* • Laboratory Control Sample (LCS) Results
* • Serial Dilution Results
* • Moisture Content
- Detection Limits Results
* • Sample Quantitation Results

* - All criteria were met for this parameter.

Overall Evaluation of Data and Potential Usability Issues

All results are usable for project objectives.

Qualifications applied to the data as a result of sampling error are discussed below.

- The positive results for aluminum, barium, calcium, chromium, iron, lead, mercury, nickel, potassium, vanadium, and zinc in samples EHS-SS-03 and EHS-SS-XX and aluminum, chromium, magnesium, and vanadium in samples EHS-GP-02 (4-5) and EHS-GP-XX (XX) were qualified as estimated (J) due to high relative percent differences (RPDs) in the evaluation of the field duplicate. The direction of the bias cannot be determined from this nonconformance. These results are usable for project objectives as estimated values which may have a minor effect on the data usability.

- The positive results for potassium in samples EHS-GP-01 (44-45) and EHS-GP-03 (44-45) were qualified as nondetect (U) at the quantitation limits due to field blank contamination. The results are usable for project objectives as nondetects which may have a minor effect on the data usability.

Qualifications applied to the data as a result of analytical error are discussed below.

- The positive results for sulfate in samples EHS-GP-01 (4-5), EHS-GP-04 (4-5), EHS-GP-XX (XX), and EHS-SS-03 were qualified as nondetect (U) at the reported values due to laboratory blank contamination. The results are usable for project objectives as nondetects which may have a minor effect on the data usability.

- The positive results for calcium in sample EHS-GP-01 (44-45), thallium in sample EHS-SS-05, and sulfate in samples EHS-GP-02 (4-5), EHS-GP-01 (44-45), EHS-GP-03 (4-5), EHS-SS-01, EHS-SS-XX, EHS-SS-04, EHS-SS-06, and EHS-GP-03 (44-45) were qualified as nondetect (U) at the quantitation limits due to laboratory blank contamination. The results are usable for project objectives as

nondetects which may have a minor effect on the data usability.

- The positive results for beryllium in samples EHS-GP-01 (4-5), EHS-SS-03, EHS-SS-04, and EHS-SS-05 and magnesium in samples EHS-GP-02 (4-5), EHS-GP-01 (4-5), EHS-GP-01 (44-45), EHS-GP-03 (4-5), EHS-GP-04 (4-5), EHS-GP-XX (XX), EHS-SS-01, EHS-SS-XX, EHS-SS-02, EHS-SS-03, EHS-SS-04, EHS-SS-05, EHS-GP-03 (44-45) were qualified as estimated (J) due to recoveries in the MS analysis which were above control limits. The results may be biased high. These results are usable for project objectives as estimated values which may have a minor effect on the data usability.

- The positive and nondetect results for antimony in all samples and sulfide in samples EHS-GP-02 (4-5), EHS-GP-01 (4-5), EHS-GP-01 (44-45), EHS-GP-03 (4-5), EHS-GP-04 (4-5), EHS-GP-XX (XX), EHS-SS-01, EHS-SS-XX, EHS-SS-02, EHS-SS-03, EHS-SS-04, EHS-SS-05, EHS-GP-03 (44-45) were qualified as estimated (J/UJ) due to recoveries in the MS analysis which below control limits. The results may be biased low. These results are usable for project objectives as estimated values and nondetects with estimated quantitation limits which may have a minor effect on the data usability.

- Potential uncertainty exists for the following results which were detected above the method detection limit (MDL) but below the low calibration check standard:

Arsenic:	EHS-GP-02 (4-5), EHS-GP-03 (4-5), EHS-GP-04 (4-5), EHS-GP-XX (XX)
Barium:	EHS-GP-02 (4-5), EHS-GP-01 (4-5), EHS-GP-01 (44-45), EHS-GP-03 (4-5), EHS-GP-04 (4-5), EHS-GP-XX (XX), EHS-SS-01, EHS-SS-XX, EHS-SS-02, EHS-SS-06, EHS-GP-03 (44-45)
Beryllium:	EHS-GP-01 (4-5)
Calcium:	EHS-GP-02 (4-5), EHS-GP-01 (4-5), EHS-GP-03 (4-5), EHS-GP-04 (4-5), EHS-GP-XX (XX), EHS-GP-03 (44-45)
Chromium:	EHS-GP-01 (44-45), EHS-GP-03 (44-45)
Cobalt:	EHS-GP-02 (4-5), EHS-GP-01 (4-5), EHS-GP-01 (44-45), EHS-GP-03 (4-5), EHS-GP-04 (4-5), EHS-GP-XX (XX), EHS-SS-01, EHS-SS-XX, EHS-SS-02, EHS-SS-03, EHS-SS-04, EHS-SS-05, EHS-SS-06
Copper:	EHS-GP-02 (4-5), EHS-GP-01 (44-45), EHS-GP-04 (4-5), EHS-GP-XX (XX), EHS-GP-03 (44-45)
Lead:	EHS-GP-03 (44-45)
Magnesium:	EHS-GP-02 (4-5), EHS-GP-01 (44-45), EHS-SS-02, EHS-GP-03 (44-45)
Nickel:	EHS-GP-02 (4-5), EHS-GP-01 (4-5), EHS-GP-01 (44-45), EHS-GP-03 (4-5), EHS-GP-04 (4-5), EHS-GP-XX (XX), EHS-SS-01, EHS-SS-XX, EHS-SS-02, EHS-SS-06, EHS-GP-03 (44-45)

Potassium:	EHS-GP-02 (4-5), EHS-GP-01 (4-5), EHS-GP-03 (4-5), EHS-GP-04 (4-5), EHS-GP-XX (XX), EHS-SS-01, EHS-SS-XX, EHS-SS-02, EHS-SS-05, EHS-SS-06
Selenium:	EHS-SS-03, EHS-SS-04
Sodium:	EHS-GP-02 (4-5), EHS-GP-01 (4-5), EHS-GP-01 (44-45), EHS-GP-03 (4-5), EHS-GP-04 (4-5), EHS-GP-XX (XX), EHS-SS-01, EHS-SS-XX, EHS-SS-02, EHS-SS-03, EHS-SS-04, EHS-SS-05, EHS-SS-06
Vanadium:	EHS-GP-02 (4-5), EHS-GP-01 (44-45), EHS-GP-03 (44-45)
Zinc:	EHS-GP-02 (4-5)
Sulfide:	EHS-GP-02 (4-5), EHS-GP-03 (4-5), EHS-GP-04 (4-5), EHS-SS-03, EHS-SS-04, EHS-SS-05

These results were qualified as estimated (J) and can be used for project objectives as estimated values which may have a minor effect on the data usability.

Data Completeness

The data package was complete as defined under the requirements for the NYSDEC ASP category B laboratory deliverables.

Holding Times and Sample Preservation

All criteria were met.

Instrument Calibration

All recovery criteria were met

CRQL Standard Recoveries

All recovery criteria were met.

Blank Results

Target analytes were detected at levels less than the quantitation limit in the associated laboratory instrument and method blank samples. Analytes which were detected in the project samples at levels less than five times those in the blanks were qualified as nondetect (U). The following table summarizes the contamination.

Analyte	Type of Blank	Associated Samples	Maximum Concentration	Action Level
Calcium	Method	All samples, with the exception of EHS-SS-06	14.4 mg/kg	72 mg/kg

Thallium	Instrument	All samples, with the exception of EHS-SS-06	8.5 ug/L, 1.7 mg/kg	8.5 mg/kg
Sulfate	Instrument	All samples	0.44 mg/L, 4.4 mg/kg	22 mg/kg

Blank Actions

If the sample result is < QL and < action level; report the result as nondetect (U) at the QL.
If the sample result is ≥ QL and < action level; report the sample result as nondetect (U) at the reported value.
For negative blank contamination ≥2 MDL; professional judgement was taken to estimate (J/UJ) those results which were less than the action level.

The positive results for calcium in sample EHS-GP-01 (44-45), thallium in sample EHS-SS-05, and sulfate in samples EHS-GP-02 (4-5), EHS-GP-01 (44-45), EHS-GP-03 (4-5), EHS-SS-01, EHS-SS-XX, EHS-SS-04, EHS-SS-06, and EHS-GP-03 (44-45) were qualified as nondetect (U) at the reporting limit. The positive results for sulfate in samples EHS-GP-01 (4-5), EHS-GP-04 (4-5), EHS-GP-XX (XX), and EHS-SS-03 were qualified as nondetect (U) at the reported values due to laboratory blank contamination.

Potassium was detected in the associated field blank sample EHS-FB-01, which was reported in case number 220-3438. Target analytes were not detected in field blank sample EHS-FB-02. Analytes which were detected in the project samples at levels less than five times those in the blanks were qualified as nondetect (U). The following table summarizes the contamination.

Analyte	Type of Blank	Associated Samples	Maximum Concentration	Action Level
Potassium	EHS-FB-01	All samples	130 ug/L, 26 mg/kg	130 mg/kg

Blank Actions

If the sample result is < QL and < action level; report the result as nondetect (U) at the QL.
If the sample result is ≥ QL and < action level; report the sample result as nondetect (U) at the reported value.
For negative blank contamination ≥2 MDL; professional judgement was taken to estimate (J/UJ) those results which were less than the action level.

The positive results for potassium in samples EHS-GP-01 (44-45) and EHS-GP-03 (44-45) were qualified as nondetect (U) at the reporting limit due to field blank contamination.

ICP ICS Results

Analytes were recovered within the control limits in the ICSAB sample analyses.

Positive results for chromium, manganese, and nickel were detected above the method detection limit (MDL) in the ICSA solution analysis associated with all samples with the exception of EHS-SS-06. Positive results for manganese and nickel and negative results for thallium were detected above the method detection limit (MDL) in the ICSA solution analysis associated with sample EHS-SS-06. Sample interferents levels were reviewed. Iron was present in sample EHS-SS-04 (92%) at a similar level to that of the ICSA

solution. The following table lists the estimated interferences and resulting validation actions.

Sample	Analyte	Sample Result (ug/L)	Estimated Interference (ug/L)	Actions
EHS-SS-04	Chromium	430	1.8	Interference <10%; no validation action required.
	Manganese	363	7.9	Interference <10%; no validation action required.
	Nickel	120	6.5	Interference <10%; no validation action required.

MS Results

The laboratory performed the MS analyses on samples EHS-GP-02 (4-5) and EHS-SS-06 for metals and sulfate and MS/MSD analyses on the same samples for sulfide. The following table lists the analytes which exhibited recoveries outside of the control limits of 75 - 125% and the resulting validation actions.

Analyte	MS Sample	Recovery (%)	Actions
Beryllium	EHS-GP-02 (4-5)	131	Estimate (J) the positive results for beryllium in samples EHS-GP-01 (4-5), EHS-SS-03, EHS-SS-04, and EHS-SS-05.
Magnesium	EHS-GP-02 (4-5)	148	Estimate (J) the positive results for magnesium in all samples, with the exception of EHS-SS-06, which exhibited an acceptable MS recovery for magnesium.
Thallium	EHS-GP-02 (4-5)	136	Validation action was not required as all thallium results were nondetect and therefore not affected by the potential high bias.
Sulfide	EHS-GP-02 (4-5)	63, 68	Estimate (J/UJ) the positive and nondetect results for sulfide in all samples, with the exception of EHS-SS-06, which exhibited an acceptable MS recovery for sulfide.
Antimony	EHS-GP-02 (4-5) EHS-SS-06	53 44	Estimate (J/UJ) the positive and nondetect results for antimony in all samples.

Laboratory Duplicate Results

Laboratory duplicate analyses were performed on sample EHS-SS-06 and EHS-GP-02 (4-5) for metals and sulfate. In lieu of a duplicate analysis, the laboratory performed matrix spike duplicates for sulfide on these samples. All criteria were met in these analyses.

Field Duplicate Results

Samples EHS-SS-03 and EHS-SS-XX were submitted as a field duplicate pair with this sample group. The following table summarizes the RPDs of the detected analytes, all of which were acceptable with the exception of aluminum, barium, calcium, chromium, iron, lead, mercury, nickel, potassium, vanadium, and zinc. The positive results for aluminum, barium, calcium, chromium, iron, lead, mercury, nickel, potassium, vanadium, and zinc in samples EHS-SS-03 and EHS-SS-XX were estimated (J).

Analyte	EHS-SS-03 (mg/kg)	EHS-SS-XX (mg/kg)	RPD (%)
Aluminum	22,400	8850	86.7
Arsenic	29.1	22.4	26.0
Barium	277	31.0	159.7
Beryllium	1.7	3.1 U	NC, Within 2xQL
Calcium	5450	1680	105.8
Chromium	90.6	12.0	153.2
Cobalt	9.3	4.3	73.5, Within 2xQL
Copper	34.6	57.6	49.9
Iron	40,600	12,900	103.6
Lead	928	43.2	182.2
Magnesium	1620	1610	0.6
Manganese	143	119	18.3
Mercury	0.13	0.046	95.4
Nickel	29.3	6.8	124.7
Potassium	1620	431	115.9
Selenium	3.7	15.6 U	NC, Within 2xQL
Sodium	507	193	89.7, Within 2xQL
Vanadium	122	23.6	135.2
Zinc	166	46.4	112.6

For soil results > 5xQL and RPDs >50; estimate (J) results in the field duplicate pair.
For soil results < 5xQL; the sample and duplicate results must be within 2xQL.

Samples EHS-GP-02 (4-5) and EHS-GP-XX (XX) were also submitted as a field duplicate pair with this sample group. The following table summarizes the RPDs of the detected analytes, all of which were acceptable with the exception of aluminum, chromium, magnesium, and vanadium. The positive results for aluminum, chromium,

magnesium, and vanadium in samples EHS-GP-02 (4-5) and EHS-GP-XX (XX) were estimated (J).

Analyte	EHS-GP-02 (4-5) (mg/kg)	EHS-GP-XX (XX) (mg/kg)	RPD (%)
Aluminum	4420	14,800	108.0
Arsenic	1.9	2.9	41.7
Barium	16.8	21.5	24.5
Calcium	247	714	97.2, Within 2xQL
Chromium	6.8	17.7	89.0
Cobalt	5.1	5.4	5.7
Copper	5.0	5.5	9.5
Iron	9260	13,300	35.8
Lead	6.1	7.6	21.9
Magnesium	923	2460	90.9
Manganese	150	115	26.4
Mercury	0.053 U	0.028	NC, Within 2xQL
Nickel	4.4	10.7	83.4, Within 2xQL
Potassium	325	391	18.4
Sodium	31.4	54.7	54.1, Within 2xQL
Vanadium	11	25.3	78.8
Zinc	12.9	28.5	75.4, Within 2xQL
Sulfide	10.2	44.3 U	NC, Within 2xQL

For soil results > 5xQL and RPDs >50; estimate (J) results in the field duplicate pair.
For soil results < 5xQL; the sample and duplicate results must be within 2xQL.

LCS Results

All criteria were met.

Serial Dilution Results

The laboratory performed the serial dilution analyses on sample MS-GP-02 (4-5). All criteria were met.

Moisture Content

All criteria were met.

Detection Limits Results

Positive results which were above the MDL but below the reporting limit were reported by the laboratory with a "J" qualifier. These results were qualified as estimated (J) due to uncertainty at the low end of calibration. However, the low level calibration check standard analyzed was less than the laboratory reporting limit for mercury, aluminum, arsenic, beryllium, cadmium, chromium, iron, lead, manganese, selenium, silver, thallium, and zinc. The low level calibration check standard analyzed was greater than the laboratory RL for antimony, barium, calcium, cobalt, magnesium, nickel, potassium, sodium, and vanadium. As analysis of the low level standard demonstrates the accuracy at that level, results which were above the method detection limit (MDL) but below the low level calibration check standard were estimated (J) by the validator. The following results were affected:

Arsenic:	EHS-GP-02 (4-5), EHS-GP-03 (4-5), EHS-GP-04 (4-5), EHS-GP-XX (XX)
Barium:	EHS-GP-02 (4-5), EHS-GP-01 (4-5), EHS-GP-01 (44-45), EHS-GP-03 (4-5), EHS-GP-04 (4-5), EHS-GP-XX (XX), EHS-SS-01, EHS-SS-XX, EHS-SS-02, EHS-SS-06, EHS-GP-03 (44-45)
Beryllium:	EHS-GP-01 (4-5)
Calcium:	EHS-GP-02 (4-5), EHS-GP-01 (4-5), EHS-GP-03 (4-5), EHS-GP-04 (4-5), EHS-GP-XX (XX), EHS-GP-03 (44-45)
Chromium:	EHS-GP-01 (44-45), EHS-GP-03 (44-45)
Cobalt:	EHS-GP-02 (4-5), EHS-GP-01 (4-5), EHS-GP-01 (44-45), EHS-GP-03 (4-5), EHS-GP-04 (4-5), EHS-GP-XX (XX), EHS-SS-01, EHS-SS-XX, EHS-SS-02, EHS-SS-03, EHS-SS-04, EHS-SS-05, EHS-SS-06
Copper:	EHS-GP-02 (4-5), EHS-GP-01 (44-45), EHS-GP-04 (4-5), EHS-GP-XX (XX), EHS-GP-03 (44-45)
Lead:	EHS-GP-03 (44-45)
Magnesium:	EHS-GP-02 (4-5), EHS-GP-01 (44-45), EHS-SS-02, EHS-GP-03 (44-45)
Nickel:	EHS-GP-02 (4-5), EHS-GP-01 (4-5), EHS-GP-01 (44-45), EHS-GP-03 (4-5), EHS-GP-04 (4-5), EHS-GP-XX (XX), EHS-SS-01, EHS-SS-XX, EHS-SS-02, EHS-SS-06, EHS-GP-03 (44-45)
Potassium:	EHS-GP-02 (4-5), EHS-GP-01 (4-5), EHS-GP-03 (4-5), EHS-GP-04 (4-5), EHS-GP-XX (XX), EHS-SS-01, EHS-SS-XX, EHS-SS-02, EHS-SS-05, EHS-SS-06
Selenium:	EHS-SS-03, EHS-SS-04
Sodium:	EHS-GP-02 (4-5), EHS-GP-01 (4-5), EHS-GP-01 (44-45), EHS-GP-03 (4-5), EHS-GP-04 (4-5), EHS-GP-XX (XX), EHS-SS-01, EHS-SS-XX, EHS-SS-02, EHS-SS-03, EHS-SS-04, EHS-SS-05, EHS-SS-06
Vanadium:	EHS-GP-02 (4-5), EHS-GP-01 (44-45), EHS-GP-03 (44-45)
Zinc:	EHS-GP-02 (4-5)

Sulfide: EHS-GP-02 (4-5), EHS-GP-03 (4-5), EHS-GP-04 (4-5), EHS-SS-03, EHS-SS-04, EHS-SS-05

As the following results reported were greater than the lowest calibration standard or low level calibration check standard, the validator removed the "J" qualifiers: arsenic in samples EHS-GP-01 (4-5) and EHS-SS-02, beryllium in samples EHS-SS-03, EHS-SS-04, and EHS-SS-05, lead in sample EHS-GP-02 (4-5), mercury in samples EHS-GP-03 (4-5), EHS-GP-04 (4-5), EHS-GP-XX (XX), EHS-SS-XX, and EHS-SS-02, and zinc in samples EHS-GP-01 (4-5), and EHS-GP-XX (XX),

Sample Quantitation Results

Calculations were spot-checked; no discrepancies were noted.

Site: East Hampton Hortonsphere, East Hampton, NY
Laboratory: Test America, Shelton, CT
Report No.: 220-3404
Reviewer: Lorie MacKinnon/GEI Consultants
Date: January 22, 2007

Samples Reviewed and Evaluation Summary

FIELD ID	LAB ID	FRACTIONS VALIDATED
EHS-GP-04 (44-45)	220-3404-1	Metals, Sulfate, Sulfide
EHS-GP-05 (4-5)	220-3404-2	Metals, Sulfate, Sulfide
EHS-GP-05 (44-45)	220-3404-3	Metals, Sulfate, Sulfide
EHS-GP-02 (43-45)	220-3404-5	Metals, Sulfate, Sulfide
Associated QC Samples(s):	Field Blanks:	EHS-FB-01, EHS-FB-02 (reported in 220-3438)
	Field Duplicate pair:	None associated

The above-listed soil samples were collected on November 15 and 16, 2007 and were analyzed for metals by SW-846 methods 6010B/7471A, sulfate by EPA method 300.0, and sulfide by EPA method 376.1. The data validation was performed in accordance with the and the *USEPA Contract Laboratory Program National Functional Guidelines for Inorganic Data Review, EPA 540/R-04/004* (October 2004) and USEPA Region 2 *Standard Operating Procedure for the Evaluation of Metals for the Contract Laboratory Program,* SOP HW-2, Revision 13 (September 2005), modified as necessary to accommodate the non-CLP methodologies used.

The inorganic data were evaluated based on the following parameters:

* • Overall Evaluation of Data and Potential Usability Issues
* • Data Completeness
• Holding Times and Sample Preservation
* • Instrument Calibration
* • Contract Required Quantitation Limit (CRQL) Standard Recoveries
• Blank Analysis Results
• Inductively Coupled Plasma (ICP) Interference Check Sample (ICS) Results
• Matrix Spike/Matrix Spike Duplicate (MS/MSD) Results
* • Laboratory Duplicate Results
NA • Field Duplicate Results
• Laboratory Control Sample (LCS) Results
* • Serial Dilution Results
* • Moisture Content
• Detection Limits Results
* • Sample Quantitation Results

NA- A field duplicate pair was not associated with this sample group.

* - All criteria were met for this parameter.

Overall Evaluation of Data and Potential Usability Issues

All results are usable for project objectives.

Qualifications applied to the data as a result of sampling error are discussed below.

- The positive results for potassium in samples EHS-GP-04 (44-45), EHS-GP-05 (44-45), and EHS-GP-02 (43-45) were qualified as nondetect (U) at the quantitation limits due to field blank contamination. The results are usable for project objectives as nondetects which may have a minor effect on the data usability.

Qualifications applied to the data as a result of analytical error are discussed below.

- The nondetect results for sulfide in samples EHS-GP-04 (44-45), EHS-GP-05 (4-5), and EHS-GP-05 (44-45) were qualified as estimated (UJ) due to a slight exceedance in holding time. The results may be biased low. These results are usable for project objectives as nondetects with estimated quantitation limits which may have a minor effect on the data usability.

- The positive results for calcium in EHS-GP-04 (44-45), EHS-GP-05 (44-45), and EHS-GP-02 (43-45), sulfate in samples EHS-GP-04 (44-45), EHS-GP-05 (44-45), and EHS-GP-02 (43-45), and sulfide in samples EHS-GP-04 (44-45) and EHS-GP-05 (4-5) were qualified as nondetect (U) at the quantitation limits due to laboratory blank contamination. The results are usable for project objectives as nondetects which may have a minor effect on the data usability.

- The positive results for beryllium in sample EHS-GP-05 (4-5) and magnesium in all samples were qualified as estimated (J) due to recoveries in the MS analysis which were above control limits. The results may be biased high. These results are usable for project objectives as estimated values which may have a minor effect on the data usability.

- The positive and nondetect results for antimony and sulfide in all samples were qualified as estimated (J/UJ) due to recoveries in the MS analysis which below control limits. The results may be biased low. These results are usable for project objectives as estimated values and nondetects with estimated quantitation limits which may have a minor effect on the data usability.

- The nondetect results for sulfide in all samples were qualified as estimated (UJ) due to low recoveries in the LCS/LCSD analyses. The results may be biased low. These results are usable for project objectives as estimated values and nondetects

with estimated quantitation limits which may have a minor effect on the data usability.

- Potential uncertainty exists for the following results which were detected above the method detection limit (MDL) but below the low calibration check standard:

Barium:	All samples
Beryllium:	EHS-GP-05 (4-5)
Calcium:	EHS-GP-05 (4-5)
Chromium:	EHS-GP-04 (44-45), EHS-GP-05 (44-45)
Cobalt:	EHS-GP-04 (44-45), EHS-GP-05 (4-5)
Copper:	EHS-GP-04 (44-45), EHS-GP-05 (44-45), EHS-GP-02 (43-45)
Magnesium:	EHS-GP-04 (44-45), EHS-GP-05 (44-45), EHS-GP-02 (43-45)
Nickel:	EHS-GP-04 (44-45), EHS-GP-05 (44-45), EHS-GP-02 (43-45)
Potassium:	EHS-GP-05 (4-5)
Sodium:	EHS-GP-05 (4-5)
Vanadium:	EHS-GP-04 (44-45), EHS-GP-05 (44-45), EHS-GP-02 (43-45)
Sulfide:	EHS-GP-02 (43-45)

These results were qualified as estimated (J) and can be used for project objectives as estimated values which may have a minor effect on the data usability.

Data Completeness

The data package was complete as defined under the requirements for the NYSDEC ASP category B laboratory deliverables.

Holding Times and Sample Preservation

The sulfide analysis took place two days outside of the holding time for samples EHS-GP-04 (44-45), EHS-GP-05 (4-5), and EHS-GP-05 (44-45). The nondetect results for sulfide in samples EHS-GP-04 (44-45), EHS-GP-05 (4-5), and EHS-GP-05 (44-45) were estimated (UJ) due to this slight exceedance.

Instrument Calibration

All recovery criteria were met

CRQL Standard Recoveries

All recovery criteria were met.

Blank Results

Target analytes were detected in the associated laboratory instrument and method blank samples. Analytes which were detected in the project samples at levels less than five times those in the blanks were qualified as nondetect (U). The following table summarizes the contamination.

Analyte	Type of Blank	Associated Samples	Maximum Concentration	Action Level
Calcium	Method	All samples	14.4 mg/kg	72 mg/kg
Thallium	Instrument	All samples	8.5 ug/L, 1.7 mg/kg	8.5 mg/kg
Sulfide	Method	EHS-GP-04 (44-45), EHS-GP-05 (4-5), EHS-GP-05 (44-45)	23.5 mg/kg	117.5 mg/kg
Sulfate	Instrument	All samples	0.44 mg/L, 4.4 mg/kg	22 mg/kg

Blank Actions

If the sample result is < QL and < action level; report the result as nondetect (U) at the QL.
If the sample result is ≥ QL and < action level; report the sample result as nondetect (U) at the reported value.
For negative blank contamination ≥2 MDL; professional judgement was taken to estimate (J/UJ) those results which were less than the action level.

The positive results for calcium in EHS-GP-04 (44-45), EHS-GP-05 (44-45), and EHS-GP-02 (43-45), sulfate in samples EHS-GP-04 (44-45), EHS-GP-05 (44-45), and EHS-GP-02 (43-45), and sulfide in samples EHS-GP-04 (44-45) and EHS-GP-05 (4-5) were qualified as nondetect (U) at the reporting limits due to laboratory blank contamination.

Potassium was detected in the associated field blank sample EHS-FB-01, which was reported in case number 220-3438. Target analytes were not detected in field blank sample EHS-FB-02. Analytes which were detected in the project samples at levels less than five times those in the blanks were qualified as nondetect (U). The following table summarizes the contamination.

Analyte	Type of Blank	Associated Samples	Maximum Concentration	Action Level
Potassium	EHS-FB-01	All samples	130 ug/L, 26 mg/kg	130 mg/kg

Blank Actions

If the sample result is < QL and < action level; report the result as nondetect (U) at the QL.
If the sample result is ≥ QL and < action level; report the sample result as nondetect (U) at the reported value.
For negative blank contamination ≥2 MDL; professional judgement was taken to estimate (J/UJ) those results which were less than the action level.

The positive results for potassium in samples EHS-GP-04 (44-45), EHS-GP-05 (44-45), and EHS-GP-02 (43-45) were qualified as nondetect (U) at the reporting limit.

ICP ICS Results

Analytes were recovered within the control limits in the ICSAB sample analyses.

Positive results for chromium, manganese, and nickel were detected above the method detection limit (MDL) in the ICSA solution analysis associated with all samples. Sample interferents levels were reviewed. Validation actions were not required as the sample interferents levels were less than those of the ICSA sample.

MS Results

The laboratory performed the MS analyses on samples EHS-GP-02 (4-5), which was reported in case number 220-3395, for metals, sulfate, and sulfide. The following table lists the analytes which exhibited recoveries outside of the control limits of 75 - 125% and the resulting validation actions.

Analyte	Recovery (%)	Actions
Beryllium	131	Estimate (J) the positive result for beryllium in sample EHS-GP-05 (4-5).
Magnesium	148	Estimate (J) the positive results for magnesium in all samples.
Antimony	53	Estimate (UJ) the nondetect results for antimony in all samples.
Thallium	136	Validation action was not required as all thallium results were nondetect and therefore not affected by the potential high bias.
Sulfide	63, 68	Estimate (J/UJ) the positive and nondetect results for sulfide in all samples.

Laboratory Duplicate Results

Laboratory duplicate analyses were performed on sample EHS-GP-02 (4-5) for metals and sulfate. In lieu of a duplicate analysis, the laboratory performed a matrix spike duplicate for sulfide on this sample. All criteria were met in these analyses.

Field Duplicate Results

A field duplicate pair was not associated with this sample group.

LCS Results

Sulfide (79, 79) was recovered below the control limits of 80-120 in the LCS and laboratory control sample duplicate (LCSD) analyses. The nondetect results for sulfide in all samples were estimated (UJ).

Serial Dilution Results

The laboratory performed the serial dilution analyses on sample EHS-GP-02 (43-45). All criteria were met.

Moisture Content

All criteria were met.

Detection Limits Results

Positive results which were above the MDL but below the reporting limit were reported by the laboratory with a "J" qualifier. These results were qualified as estimated (J) due to uncertainty at the low end of calibration. However, the low level calibration check standard analyzed was less than the laboratory reporting limit for mercury, aluminum, arsenic, beryllium, cadmium, chromium, iron, lead, manganese, selenium, silver, thallium, and zinc. The low level calibration check standard analyzed was greater than the laboratory RL for antimony, barium, calcium, cobalt, magnesium, nickel, potassium, sodium, and vanadium. As analysis of the low level standard demonstrates the accuracy at that level, results which were above the method detection limit (MDL) but below the low level calibration check standard were estimated (J) by the validator. The following results were affected:

Barium:	All samples
Beryllium:	EHS-GP-05 (4-5)
Calcium:	EHS-GP-05 (4-5)
Chromium:	EHS-GP-04 (44-45), EHS-GP-05 (44-45)
Cobalt:	EHS-GP-04 (44-45), EHS-GP-05 (4-5)
Copper:	EHS-GP-04 (44-45), EHS-GP-05 (44-45), EHS-GP-02 (43-45)
Magnesium:	EHS-GP-04 (44-45), EHS-GP-05 (44-45), EHS-GP-02 (43-45)
Nickel:	EHS-GP-04 (44-45), EHS-GP-05 (44-45), EHS-GP-02 (43-45)
Potassium:	EHS-GP-05 (4-5)
Sodium:	EHS-GP-05 (4-5)
Vanadium:	EHS-GP-04 (44-45), EHS-GP-05 (44-45), EHS-GP-02 (43-45)
Sulfide:	EHS-GP-02 (43-45)

As the following results reported were greater than the lowest calibration standard or low level calibration check standard, the validator removed the "J" qualifiers: arsenic in sample EHS-GP-05 (4-5) and chromium in sample EHS-GP-02 (43-45).

Sample Quantitation Results

Calculations were spot-checked; no discrepancies were noted.

Site: East Hampton Hortonsphere, East Hampton, NY
Laboratory: Test America, Shelton, CT
Report No.: 220-3406, 220-3438, 220-3509
Reviewer: Lorie MacKinnon/GEI Consultants
Date: January 28, 2007

Samples Reviewed and Evaluation Summary

FIELD ID	LAB ID	FRACTIONS VALIDATED
EHS-GW-03	220-3406-1	Metals, Sulfide, Sulfate
EHS-FB-01	220-3438-1	Metals, Sulfide, Sulfate
EHS-FB-02	220-3438-2	Metals, Sulfide, Sulfate
EHS-GW-01	220-3509-1	Metals, Sulfide, Sulfate
Associated QC Samples(s):	Field Blanks:	EHS-FB-01, EHS-FB-02
	Field Duplicate pair:	None associated

The above-listed aqueous samples and field blank samples were collected on November 16, 19, and 29, 2007 and were analyzed for metals by SW-846 methods 6010B/7470A, sulfate by EPA method 300.0, and sulfide by EPA method 376.1. The data validation was performed in accordance with the and the *USEPA Contract Laboratory Program National Functional Guidelines for Inorganic Data Review, EPA 540/R-04/004* (October 2004) and USEPA Region 2 *Standard Operating Procedure for the Evaluation of Metals for the Contract Laboratory Program,* SOP HW-2, Revision 13 (September 2005), modified as necessary to accommodate the non-CLP methodologies used.

The inorganic data were evaluated based on the following parameters:

*	• Overall Evaluation of Data and Potential Usability Issues
*	• Data Completeness
*	• Holding Times and Sample Preservation
	• Instrument Calibration
*	• Contract Required Quantitation Limit (CRQL) Standard Recoveries
	• Blank Analysis Results
	• Inductively Coupled Plasma (ICP) Interference Check Sample (ICS) Results
	• Matrix Spike/Matrix Spike Duplicate (MS/MSD) Results
*	• Laboratory Duplicate Results
NA	• Field Duplicate Results
*	• Laboratory Control Sample (LCS) Results
*	• Serial Dilution Results
NA	• Moisture Content
	• Detection Limits Results
*	• Sample Quantitation Results

* - All criteria were met for this parameter.

NA- Not applicable to the matrix reviewed and a field duplicate pair was not associated with this sample group.

Overall Evaluation of Data and Potential Usability Issues

All results are usable for project objectives.

Qualifications were not applied to the data as a result of sampling error. Qualifications applied to the data as a result of analytical error are discussed below.

- Potential uncertainty exists for the following results which were detected above the method detection limit (MDL) but below the low calibration check standard:

Aluminum:	EHS-GW-03
Barium:	EHS-GW-03
Beryllium:	EHS-GW-01
Chromium:	EHS-GW-03
Cobalt:	EHS-GW-01, EHS-GW-03
Magnesium:	EHS-GW-03
Nickel:	EHS-GW-03
Potassium:	EHS-GW-03, EHS-FB-01
Thallium:	EHS-GW-01
Zinc:	EHS-GW-03

  These results were qualified as estimated (J) and can be used for project objectives as estimated values which may have a minor effect on the data usability.

- The positive result for mercury in sample EHS-GW-01 was qualified as nondetect (U) at the quantitation limit due to laboratory blank contamination. The result is usable for project objectives as a nondetect which may have a minor effect on the data usability.

Data Completeness

The data package was complete as defined under the requirements for the NYSDEC ASP category B laboratory deliverables.

Holding Times and Sample Preservation

All criteria were met.

Instrument Calibration

The recoveries for cobalt (121), chromium (114), and zinc (113) were above the control limits of 90-110 in the continuing calibration verification (CCV) sample CCV32 associated with samples EHS-FB-01 and EHS-FB-02. Validation actions were not required on this basis as the results for cobalt, chromium, and zinc were nondetect and therefore not affected by the potential high bias.

CRQL Standard Recoveries

All recovery criteria were met.

Blank Results

Analytes were detected in the associated method blank samples. Analytes which were detected in the project samples at levels less than five times those in the blanks were qualified as nondetect (U). The following table summarizes the contamination.

Analyte	Type of Blank	Associated Samples	Maximum Concentration	Action Level
Vanadium	Instrument	EHS-GW-01	0.11 ug/L	0.55 ug/L
Mercury	Instrument	EHS-GW-01	1.2 ug/L	6.0 ug/L
Potassium	Instrument	EHS-FB-01, EHS-FB-02	140 ug/L	700 ug/L
Sulfate	Method	EHS-FB-01, EHS-FB-02, EHS-GW-03	0.43 mg/L	2.2 mg/L

Blank Actions

If the sample result is < QL and < action level; report the result as nondetect (U) at the QL.
If the sample result is ≥ QL and < action level; report the sample result as nondetect (U) at the reported value.
For negative blank contamination ≥2 MDL; professional judgement was taken to estimate (J/UJ) those results which were less than the action level.

The positive result for mercury in sample EHS-GW-01 was qualified as nondetect (U) at the reporting limit due to laboratory blank contamination.

Potassium was detected in the associated field blank sample EHS-FB-01. Target analytes were not detected in field blank sample EHS-FB-02. Analytes which were detected in the project samples at levels less than five times those in the blanks were qualified as nondetect (U). The following table summarizes the contamination.

Analyte	Type of Blank	Associated Samples	Maximum Concentration	Action Level
Potassium	EHS-FB-01	All samples	130 ug/L	650 ug/L

Blank Actions

If the sample result is < QL and < action level; report the result as nondetect (U) at the QL.

If the sample result is ≥ QL and < action level; report the sample result as nondetect (U) at the reported value.
For negative blank contamination ≥2 MDL; professional judgement was taken to estimate (J/UJ) those results which were less than the action level.

Validation actions were not required on this basis.

ICP ICS Results

Thallium (76%) was recovered below the control limits of 80-120 in the ICSAB sample analyses associated with samples EHS-FB-01 and EHS-FB-02. Validation actions were not required on this basis as sample interferent levels were less than those of the ICSAB.

Positive results for cadmium, cobalt, manganese, nickel, and lead and negative results for vanadium and thallium were detected above the method detection limit (MDL) in the ICSA solution analysis associated with samples EHS-FB-01 and EHS-FB-02. Positive results for cadmium, manganese, and nickel and negative results for cobalt and thallium were detected above the method detection limit (MDL) in the ICSA solution analysis associated with sample EHS-GW-01. Positive results for cadmium, chromium, manganese, and nickel and negative results for cobalt, thallium, and vanadium were detected above the method detection limit (MDL) in the ICSA solution analysis associated with sample EHS-GW-03. Sample interferent levels were reviewed. Validation actions were not required as the sample interferent levels were less than the ICSA solution.

MS Results

The laboratory performed the MS analyses on sample EHS-GW-01 for sulfide and sample EHS-GW-03 for metals, sulfate, and sulfate. The following table lists the analytes which exhibited recoveries outside of the control limits of 75 - 125% and the resulting validation actions.

Analyte	MS Sample	Recovery (%)	Actions
Selenium	EHS-GW-03	128	Validation action was not required as all selenium results were nondetect and therefore not affected by the potential high bias.

Laboratory Duplicate Results

Laboratory duplicate analyses were performed on sample EHS-GW-01 for sulfide and sample EHS-GW-03 for metals, sulfate, and sulfate. All criteria were met.

Field Duplicate Results

A field duplicate pair was not associated with these sample sets.

LCS Results

All criteria were met.

Serial Dilution Results

The laboratory performed the serial dilution analyses on samples EHS-GW-01 and EHS-GW-03. All criteria were met in these analyses.

Detection Limits Results

Positive results which were above the MDL but below the reporting limit were reported by the laboratory with a "J" qualifier. These results were qualified as estimated (J) due to uncertainty at the low end of calibration. However, the low level calibration check standard analyzed was less than the laboratory reporting limit for mercury, aluminum, arsenic, beryllium, cadmium, chromium, iron, lead, manganese, selenium, silver, thallium, and zinc. The low level calibration check standard analyzed was greater than the laboratory RL for antimony, barium, calcium, cobalt, magnesium, nickel, potassium, sodium, and vanadium. As analysis of the low level standard demonstrates the accuracy at that level, results which were above the method detection limit (MDL) but below the low level calibration check standard were estimated (J) by the validator. The following results were affected:

Aluminum:	EHS-GW-03
Barium:	EHS-GW-03
Beryllium:	EHS-GW-01
Chromium:	EHS-GW-03
Cobalt:	EHS-GW-01, EHS-GW-03
Magnesium:	EHS-GW-03
Nickel:	EHS-GW-03
Potassium:	EHS-GW-03, EHS-FB-01
Thallium:	EHS-GW-01
Zinc:	EHS-GW-03

Sample Quantitation Results

Calculations were spot-checked; no discrepancies were noted.

Site: East Hampton Hortonsphere, East Hampton, NY
Laboratory: Test America, Shelton, CT
Report No.: 220-3539
Reviewer: Lorie MacKinnon/GEI Consultants
Date: January 28, 2007

Samples Reviewed and Evaluation Summary

FIELD ID	LAB ID	FRACTIONS VALIDATED
EHS-GW-02	220-3539-1	Metals, Sulfide, Sulfate
EHS-GW-04	220-3539-2	Metals, Sulfide, Sulfate
EHS-GW-05	220-3539-3	Metals, Sulfide, Sulfate
EHS-GW-XX-120307	220-3539-4	Metals, Sulfide, Sulfate
Associated QC Samples(s):	Field Blanks:	EHS-FB-01, EHS-FB-02 (reported in 220-3438)
	Field Duplicate pair:	EHS-GW-02/EHS-GW-XX-120307

The above-listed aqueous samples were collected on December 3, 2007 and were analyzed for metals by SW-846 methods 6010B/7470A, sulfate by EPA method 300.0, and sulfide by EPA method 376.1. The data validation was performed in accordance with the and the *USEPA Contract Laboratory Program National Functional Guidelines for Inorganic Data Review, EPA 540/R-04/004* (October 2004) and USEPA Region 2 *Standard Operating Procedure for the Evaluation of Metals for the Contract Laboratory Program,* SOP HW-2, Revision 13 (September 2005), modified as necessary to accommodate the non-CLP methodologies used.

The inorganic data were evaluated based on the following parameters:

*	• Overall Evaluation of Data and Potential Usability Issues
*	• Data Completeness
*	• Holding Times and Sample Preservation
*	• Instrument Calibration
*	• Contract Required Quantitation Limit (CRQL) Standard Recoveries
	• Blank Analysis Results
	• Inductively Coupled Plasma (ICP) Interference Check Sample (ICS) Results
	• Matrix Spike/Matrix Spike Duplicate (MS/MSD) Results
*	• Laboratory Duplicate Results
*	• Field Duplicate Results
*	• Laboratory Control Sample (LCS) Results
*	• Serial Dilution Results
NA	• Moisture Content
	• Detection Limits Results
*	• Sample Quantitation Results

* - All criteria were met for this parameter.

NA- Not applicable to the matrix reviewed.

Overall Evaluation of Data and Potential Usability Issues

All results are usable for project objectives.

Qualifications were not applied to the data as a result of sampling error. Qualifications applied to the data as a result of analytical error are discussed below.

- Potential uncertainty exists for the following results which were detected above the method detection limit (MDL) but below the low calibration check standard:

  Aluminum: EHS-GW-02, EHS-GW-04, EHS-GW-XX-120307
  Barium: All samples
  Chromium: EHS-GW-02, EHS-GW-04, EHS-GW-05
  Cobalt: EHS-GW-04
  Magnesium: EHS-GW-02, EHS-GW-04, EHS-GW-XX-120307
  Nickel: EHS-GW-02, EHS-GW-04
  Potassium: All samples
  Zinc: All samples

  These results were qualified as estimated (J) and can be used for project objectives as estimated values which may have a minor effect on the data usability.

Data Completeness

The data package was complete as defined under the requirements for the NYSDEC ASP category B laboratory deliverables.

Holding Times and Sample Preservation

All criteria were met.

Instrument Calibration

All recovery criteria were met

CRQL Standard Recoveries

All recovery criteria were met.

Blank Results

Manganese was detected in the associated method blank sample. Analytes which were detected in the project samples at levels less than five times those in the blanks were qualified as nondetect (U). The following table summarizes the contamination.

Analyte	Type of Blank	Associated Samples	Maximum Concentration	Action Level
Manganese	Method	All samples	17 ug/L	85 ug/L

Blank Actions

If the sample result is < QL and < action level; report the result as nondetect (U) at the QL.
If the sample result is ≥ QL and < action level; report the sample result as nondetect (U) at the reported value.
For negative blank contamination ≥2 MDL; professional judgement was taken to estimate (J/UJ) those results which were less than the action level.

Validation actions were not required on this basis.

Potassium was detected in the associated field blank sample EHS-FB-01, which was reported in case number 220-3438. Target analytes were not detected in the field blank sample EHS-FB-02. Analytes which were detected in the project samples at levels less than five times those in the blanks were qualified as nondetect (U). The following table summarizes the contamination.

Analyte	Type of Blank	Associated Samples	Maximum Concentration	Action Level
Potassium	EHS-FB-01	All samples	130 ug/L	650 ug/L

Blank Actions

If the sample result is < QL and < action level; report the result as nondetect (U) at the QL.
If the sample result is ≥ QL and < action level; report the sample result as nondetect (U) at the reported value.
For negative blank contamination ≥2 MDL; professional judgement was taken to estimate (J/UJ) those results which were less than the action level.

Validation actions were not required on this basis.

ICP ICS Results

Analytes were recovered within the control limits in the ICSAB sample analyses.

Positive results for cadmium, manganese, and nickel and negative results for cobalt and thallium were detected above the method detection limit (MDL) in the ICSA solution analysis associated with all samples. Sample interferent levels were reviewed. Validation actions were not required as the sample interferent levels were less than the ICSA solution.

MS Results

The laboratory performed the MS analyses on sample EHS-GW-03, which was reported in case number 220-3406, for metals, sulfate, and sulfide and also on sample EHS-GW-04 for sulfide. The following table lists the analytes which exhibited recoveries outside of the control limits of 75 - 125% and the resulting validation actions.

Analyte	MS Sample	Recovery (%)	Actions
Selenium	EHS-GW-03	128	Validation action was not required as all selenium results were nondetect and therefore not affected by the potential high bias.

Laboratory Duplicate Results

Laboratory duplicate analyses were performed on sample EHS-GW-03, which was reported in case number 220-3406, for metals, sulfate, and sulfide and also on sample EHS-GW-02 for sulfide. All criteria were met.

Field Duplicate Results

Samples EHS-GW-02 and EHS-GW-XX-120307 were submitted as the field duplicate pair with this sample group. The following table summarizes the RPDs of the detected analytes, all of which were acceptable.

Analyte	EHS-GW-02 (ug/L)	EHS-GW-XX-120307 (ug/L)	RPD (%)
Aluminum	160	200	22.2
Barium	58	60	3.4
Calcium	15,300	15,700	2.6
Chromium	8.7	11	23.4
Iron	410	530	25.5
Magnesium	3600	3600	0
Manganese	520	540	3.8
Nickel	9.5	13	1.9
Potassium	1400	1400	0
Sodium	22,800	23,800	4.3
Zinc	19	22	14.6
Sulfate	11.1	11.0	0.9

For aqueous results > 5xQL and RPDs >30; estimate (J) results in the field duplicate pair.

For aqueous results < 5xQL; the sample and duplicate results must be within the QL.

LCS Results

All criteria were met.

Serial Dilution Results

The laboratory performed the serial dilution analysis on sample EHS-GW-02. All criteria were met.

Detection Limits Results

Positive results which were above the MDL but below the reporting limit were reported by the laboratory with a "J" qualifier. These results were qualified as estimated (J) due to uncertainty at the low end of calibration. However, the low level calibration check standard analyzed was less than the laboratory reporting limit for mercury, aluminum, arsenic, beryllium, cadmium, chromium, iron, lead, manganese, selenium, silver, thallium, and zinc. The low level calibration check standard analyzed was greater than the laboratory RL for antimony, barium, calcium, cobalt, magnesium, nickel, potassium, sodium, and vanadium. As analysis of the low level standard demonstrates the accuracy at that level, results which were above the method detection limit (MDL) but below the low level calibration check standard were estimated (J) by the validator. The following results were affected:

Aluminum:	EHS-GW-02, EHS-GW-04, EHS-GW-XX-120307
Barium:	All samples
Chromium:	EHS-GW-02, EHS-GW-04, EHS-GW-05
Cobalt:	EHS-GW-04
Magnesium:	EHS-GW-02, EHS-GW-04, EHS-GW-XX-120307
Nickel:	EHS-GW-02, EHS-GW-04
Potassium:	All samples
Zinc:	All samples

As the following results reported were greater than the lowest calibration standard or low level calibration check standard, the validator removed the "J" qualifiers: arsenic in sample EHS-GW-05.

Sample Quantitation Results

Calculations were spot-checked; no discrepancies were noted.

Client: GEI Consultants, Inc.

Job Number: 220-3395-1
Sdg Number: 220-3395

Client Sample ID: EHS-GP-01(4-5)

Lab Sample ID: 220-3395-2
Client Matrix: Solid
% Moisture: 26.0
Date Sampled: 11/13/2007 1028
Date Received: 11/15/2007 1634

8260B Volatile Organic Compounds by GC/MS

Method: 8260B
Preparation: 5030B
Dilution: 1.0
Date Analyzed: 11/20/2007 2306
Date Prepared: 11/20/2007 2306
Analysis Batch: 220-11269
Instrument ID: HP 5890/5971A GC/MS
Lab File ID: N6057.D
Initial Weight/Volume: 5 g
Final Weight/Volume: 5 mL

Analyte	DryWt Corrected: Y	Result (ug/Kg)	Qualifier	MDL	RL
Acetone		27	U	3.2	27
Benzene		6.8	U	0.96	6.8
Bromodichloromethane		6.8	U	0.88	6.8
Bromoform		6.8	U	2.3	6.8
Bromomethane		6.8	U	2.1	6.8
Methyl Ethyl Ketone		14	U	4.5	14
Carbon disulfide		6.8	U	0.72	6.8
Carbon tetrachloride		6.8	U	0.96	6.8
Chlorobenzene		6.8	U	1.2	6.8
Chloroethane		6.8	U	1.7	6.8
Chloroform		6.8	U	0.72	6.8
Chloromethane		6.8	U	1.4	6.8
Dibromochloromethane		6.8	U	1.4	6.8
1,1-Dichloroethane		6.8	U	0.88	6.8
1,2-Dichloroethane		6.8	U	1.5	6.8
1,1-Dichloroethene		6.8	U	1.1	6.8
1,2-Dichloropropane		6.8	U	1.3	6.8
cis-1,3-Dichloropropene		6.8	U	0.84	6.8
trans-1,3-Dichloropropene		6.8	U	1.4	6.8
Ethylbenzene		6.8	U	0.96	6.8
2-Hexanone		14	U	3.6	14
Methylene Chloride		~~3.8~~ 27	~~J~~ U	1.9	27
methyl isobutyl ketone		6.8	U	1.3	6.8
Styrene		6.8	U	1.7	6.8
1,1,2,2-Tetrachloroethane		6.8	U	1.4	6.8
Tetrachloroethene		6.8	U	1.0	6.8
Toluene		1.7	J	0.80	6.8
1,1,1-Trichloroethane		6.8	U	0.99	6.8
1,1,2-Trichloroethane		6.8	U	1.2	6.8
Trichloroethene		6.8	U	1.3	6.8
Vinyl chloride		6.8	U	1.8	6.8
Xylenes, Total		6.8	U	3.3	6.8
cis-1,2-Dichloroethene		6.8	U	1.2	6.8
trans-1,2-Dichloroethene		6.8	U	1.3	6.8

Surrogate	%Rec	Acceptance Limits
1,2-Dichloroethane-d4 (Surr)	96	49 - 134
4-Bromofluorobenzene	102	36 - 133
Dibromofluoromethane	94	60 - 130
Toluene-d8 (Surr)	96	51 - 137

EHM 1/9/08 DB 1/18/08

Client: GEI Consultants, Inc.

Job Number: 220-3395-1
Sdg Number: 220-3395

Client Sample ID: EHS-GP-01(4-5)

Lab Sample ID: 220-3395-2
Client Matrix: Solid
% Moisture: 26.0
Date Sampled: 11/13/2007 1028
Date Received: 11/15/2007 1634

8270C Semivolatile Compounds by Gas Chromatography/Mass Spectrometry (GC/MS)

Method: 8270C
Preparation: 3541
Dilution: 1.0
Date Analyzed: 11/27/2007 2050
Date Prepared: 11/27/2007 0953
Analysis Batch: 220-11422
Prep Batch: 220-11378
Instrument ID: HP 6890/5973 GC/MS
Lab File ID: U2137.D
Initial Weight/Volume: 15.05 g
Final Weight/Volume: 1 mL
Injection Volume: 1 uL

Analyte	DryWt Corrected: Y	Result (ug/Kg)	Qualifier	MDL	RL
Acenaphthene		440	U	78	440
Acenaphthylene		440	U	85	440
Anthracene		440	U	72	440
Benzo[a]anthracene		440	U	65	440
Benzo[a]pyrene		440	U	57	440
Benzo[b]fluoranthene		440	U	76	440
Benzo[g,h,i]perylene		440	U	87	440
Benzo[k]fluoranthene		440	U	73	440
Bis(2-chloroethoxy)methane		440	U	72	440
Bis(2-chloroethyl)ether		440	U	220	440
Bis(2-ethylhexyl) phthalate		440	U	57	440
Butyl benzyl phthalate		440	U	62	440
Carbazole		440	U	76	440
Chrysene		440	U	78	440
Di-n-butyl phthalate		440	U	69	440
Di-n-octyl phthalate		440	U	70	440
4-Bromophenyl phenyl ether		440	U	72	440
4-Chloroaniline		440	U	59	440
2-Chloronaphthalene		440	U	77	440
4-Chlorophenyl phenyl ether		440	U	87	440
Dibenz(a,h)anthracene		440	U	67	440
Dibenzofuran		440	U	78	440
Diethyl phthalate		440	U	110	440
Dimethyl phthalate		440	U	78	440
1,2-Dichlorobenzene		440	U	70	440
1,3-Dichlorobenzene		440	U	72	440
1,4-Dichlorobenzene		440	U	70	440
3,3'-Dichlorobenzidine		890	U	50	890
2,4-Dinitrotoluene		440	U	68	440
2,6-Dinitrotoluene		440	U	180	440
Fluoranthene		440	U	74	440
Fluorene		440	U	76	440
Hexachlorobenzene		440	U	77	440
Hexachlorobutadiene		440	U	85	440
Hexachlorocyclopentadiene		440	U	63	440
Hexachloroethane		440	U	77	440
Indeno[1,2,3-cd]pyrene		440	U	79	440
Isophorone		440	U	91	440
2-Methylnaphthalene		440	U	82	440
Naphthalene		440	U	68	440
2-Nitroaniline		2200	U	60	2200
3-Nitroaniline		2200	U	63	2200
Nitrobenzene		440	U	82	440
N-Nitrosodi-n-propylamine		440	U	99	440

1/8/08 EMM 1/10/08

Client: GEI Consultants, Inc.

Job Number: 220-3395-1
Sdg Number: 220-3395

Client Sample ID: **EHS-GP-01(4-5)**

Lab Sample ID: 220-3395-2
Client Matrix: Solid
% Moisture: 26.0
Date Sampled: 11/13/2007 1028
Date Received: 11/15/2007 1634

8270C Semivolatile Compounds by Gas Chromatography/Mass Spectrometry (GC/MS)

Method: 8270C
Preparation: 3541
Dilution: 1.0
Date Analyzed: 11/27/2007 2050
Date Prepared: 11/27/2007 0953
Analysis Batch: 220-11422
Prep Batch: 220-11378
Instrument ID: HP 6890/5973 GC/MS
Lab File ID: U2137.D
Initial Weight/Volume: 15.05 g
Final Weight/Volume: 1 mL
Injection Volume: 1 uL

Analyte	DryWt Corrected: Y Result (ug/Kg)	Qualifier	MDL	RL
N-Nitrosodiphenylamine	440	U	80	440
Phenanthrene	440	U	73	440
Pyrene	440	U	65	440
1,2,4-Trichlorobenzene	440	U	71	440
4-Chloro-3-methylphenol	440	U	89	440
2-Chlorophenol	440	U	96	440
2-Methylphenol	440	U	70	440
4-Methylphenol	440	U	67	440
2,4-Dichlorophenol	440	U	92	440
2,4-Dimethylphenol	440	U	60	440
2,4-Dinitrophenol	2200	U	290	2200
4,6-Dinitro-2-methylphenol	2200	U	340	2200
2-Nitrophenol	440	U	96	440
4-Nitrophenol	2200	U	200	2200
Pentachlorophenol	2200	U	31	2200
Phenol	440	U	53	440
2,4,5-Trichlorophenol	2200	U	67	2200
2,4,6-Trichlorophenol	440	U	65	440
Benzyl alcohol	440	U	92	440
4-Nitroaniline	890	U	67	890
2,2'-oxybis[1-chloropropane]	440	U	72	440

Surrogate	%Rec	Acceptance Limits
2-Fluorobiphenyl	68	32 - 131
2-Fluorophenol	68	25 - 113
2,4,6-Tribromophenol	89	24 - 150
Nitrobenzene-d5	62	25 - 120
Phenol-d5	72	27 - 122
Terphenyl-d14	94	35 - 140

DS 1/18/08 EMM 1/10/08

Client: GEI Consultants, Inc.

Job Number: 220-3395-1
Sdg Number: 220-3395

Client Sample ID: EHS-GP-01(4-5)

Lab Sample ID: 220-3395-2
Client Matrix: Solid

% Moisture: 26.0

Date Sampled: 11/13/2007 1028
Date Received: 11/15/2007 1634

6010B Inductively Coupled Plasma - Atomic Emission Spectrometry

Method: 6010B
Preparation: 3050B
Dilution: 1.0
Date Analyzed: 11/21/2007 1528
Date Prepared: 11/19/2007 1407

Analysis Batch: 220-11308
Prep Batch: 220-11213

Instrument ID: TJA Trace ICAP
Lab File ID: W112107
Initial Weight/Volume: 1.09 g
Final Weight/Volume: 250 mL

Analyte	DryWt Corrected: Y	Result (mg/Kg)	Qualifier	MDL	RL
Silver		4.7	U	0.47	4.7
Aluminum		10300		14.3	155
Arsenic		5.1	J	2.1	12.4
Barium		37.3	J	0.34	3.1
Beryllium		0.85	J	0.71	3.1
Calcium		486	J	19.2	310
Cadmium		7.8	U	1.4	7.8
Cobalt		6.5	J	0.81	3.1
Chromium		13.4		0.53	4.7
Copper		10.7		0.68	7.8
Iron		18200		15.2	93.0
Potassium		667	J	37.2	310
Magnesium		2230	J	9.6	54.3
Manganese		195		1.0	9.3
Sodium		72.3	J	29.5	310
Nickel		8.9	J	0.68	7.8
Lead		11.7		1.3	7.8
Antimony		15.5	UJ	2.1	15.5
Selenium		15.5	U	2.5	15.5
Thallium		23.3	U	3.4	23.3
Vanadium		26.2		0.50	6.2
Zinc		25.1	J	3.4	31.0

7471A Mercury in Solid or Semisolid Waste (Manual Cold Vapor Technique)

Method: 7471A
Preparation: 7471A
Dilution: 1.0
Date Analyzed: 11/21/2007 0947
Date Prepared: 11/20/2007 1555

Analysis Batch: 220-11278
Prep Batch: 220-11264

Instrument ID: Perkin Elmer FIMS
Lab File ID: N/A
Initial Weight/Volume: 0.67 g
Final Weight/Volume: 50 mL

Analyte	DryWt Corrected: Y	Result (mg/Kg)	Qualifier	MDL	RL
Mercury		0.061	U	0.015	0.061

DB 1/2/08
1/2/08

Client: GEI Consultants, Inc.

Job Number: 220-3395-1
Sdg Number: 220-3395

Client Sample ID: EHS-GP-01(4-5)

Lab Sample ID: 220-3395-2
Client Matrix: Solid

% Moisture: 26.0

Date Sampled: 11/13/2007 1028
Date Received: 11/15/2007 1634

8081A Organochlorine Pesticides by Gas Chromatography

Method: 8081A
Preparation: 3550B
Dilution: 1.0
Date Analyzed: 12/03/2007 1651
Date Prepared: 11/27/2007 1227

Analysis Batch: 220-11521
Prep Batch: 220-11392

Instrument ID: HP 5890 with dual ECD
Lab File ID: D7507050.D
Initial Weight/Volume: 30.86 g
Final Weight/Volume: 10.0 mL
Injection Volume: 1 uL
Column ID: PRIMARY

Analyte	DryWt Corrected: Y Result (ug/Kg)	Qualifier	MDL	RL
4,4'-DDD	4.3	UJ	0.50	4.3
4,4'-DDE	4.3	U	0.57	4.3
4,4'-DDT	0.56	J	0.41	4.3
Aldrin	2.6	U	0.47	2.6
alpha-BHC	2.2	U	0.36	2.2
beta-BHC	2.2	U	0.35	2.2
delta-BHC	2.2	U	0.14	2.2
Dieldrin	4.3	U	0.42	4.3
Endosulfan I	2.2	U	0.19	2.2
Endosulfan II	4.3	U	0.22	4.3
Endosulfan sulfate	4.3	U	0.23	4.3
Endrin	6.6	U	1.2	6.6
Endrin aldehyde	4.3	U	0.42	4.3
Endrin ketone	4.3	U	0.19	4.3
gamma-BHC (Lindane)	2.2	U	0.20	2.2
Heptachlor	2.2	U	0.20	2.2
Heptachlor epoxide	2.2	U	0.15	2.2
Methoxychlor	22	U	2.8	22
Toxaphene	88	U	2.3	88
alpha-Chlordane	2.2	U	0.14	2.2
gamma-Chlordane	2.2	U	0.12	2.2

Surrogate	%Rec	Acceptance Limits
DCB Decachlorobiphenyl	94	25 - 159
Tetrachloro-m-xylene	54	24 - 154

Method: 8081A
Preparation: 3550B
Dilution: 1.0
Date Analyzed: 12/03/2007 1651
Date Prepared: 11/27/2007 1227

Analysis Batch: 220-11521
Prep Batch: 220-11392

Instrument ID: HP 5890 with dual ECD
Lab File ID: C7507050.D
Initial Weight/Volume: 30.86 g
Final Weight/Volume: 10.0 mL
Injection Volume: 1 uL
Column ID: SECONDARY

Surrogate	%Rec	Acceptance Limits
DCB Decachlorobiphenyl	89	25 - 159
Tetrachloro-m-xylene	53	24 - 154

DB 1/18/08

1/1/08

Client: GEI Consultants, Inc.

Job Number: 220-3395-1
Sdg Number: 220-3395

Client Sample ID: EHS-GP-01(4-5)

Lab Sample ID: 220-3395-2
Client Matrix: Solid
% Moisture: 26.0

Date Sampled: 11/13/2007 1028
Date Received: 11/15/2007 1634

8082 Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Method: 8082
Preparation: 3550B
Dilution: 1.0
Date Analyzed: 11/29/2007 2241
Date Prepared: 11/27/2007 1227

Analysis Batch: 220-11497
Prep Batch: 220-11392

Instrument ID: HP 5890 with dual ECD
Lab File ID: D4663120.d
Initial Weight/Volume: 30.86 g
Final Weight/Volume: 10.0 mL
Injection Volume: 1 uL
Column ID: PRIMARY

Analyte	DryWt Corrected: Y	Result (ug/Kg)	Qualifier	MDL	RL
PCB-1016		22	U	3.7	22
PCB-1221		43	U	2.0	43
PCB-1232		22	U	2.4	22
PCB-1242		22	U	3.9	22
PCB-1248		22	U	3.5	22
PCB-1254		22	U	1.6	22
PCB-1260		22	U	5.2	22

Surrogate	%Rec	Acceptance Limits
Tetrachloro-m-xylene	43	24 - 154
DCB Decachlorobiphenyl	78	25 - 159

DB 1/18/08

Jam 12/31/07

TestAmerica Connecticut

Client Sample ID: EHS-GP-01(4-5)

GC Semivolatiles

Lot-Sample #...:	A7K170204-002	Work Order #...:	KCH5K1AC	Matrix.....:	SO
Date Sampled...:	11/13/07 10:28	Date Received..:	11/17/07		
Prep Date.....:	11/26/07	Analysis Date..:	11/27/07		
Prep Batch #...:	7330014				
Dilution Factor:	1	Initial Wgt/Vol:	50.05 g	Final Wgt/Vol..:	100 mL
% Moisture.....:	29	Method.....:	SW846 8151A		

PARAMETER	RESULT	REPORTING LIMIT	UNITS	MDL
2,4-D	ND	110	ug/kg	51
2,4,5-TP	ND	28	ug/kg	3.1
2,4,5-T	16 J ✓	28	ug/kg	4.5

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
2,4-Dichlorophenylacetic acid	83	(19 - 122)

NOTE(S):

Results and reporting limits have been adjusted for dry weight.

J Estimated result. Result is less than RL.

DG 1/18/08

EHM 1/10/08

TestAmerica Connecticut

Client Sample ID: EHS-GP-01(4-5)

General Chemistry

Lot-Sample #...: A7K170204-002 Work Order #...: KCH5K Matrix.....: SO
Date Sampled...: 11/13/07 10:28 Date Received..: 11/17/07
% Moisture.....: 29

PARAMETER	RESULT	RL	UNITS	METHOD	PREPARATION-ANALYSIS DATE	PREP BATCH #
Acid-soluble sulfide	ND UJ	42.2	mg/kg	SW846 9030B/9034	11/19/07	7323421
		Dilution Factor: 1		MDL.....: 7.9		
Percent Solids	71.1	10.0	%	MCAWW 160.3 MOD	11/26-11/27/07	7330568
		Dilution Factor: 1		MDL.....: 10.0		

NOTE(S):

RL Reporting Limit

Results and reporting limits have been adjusted for dry weight.

1/2/08

Client: GEI Consultants, Inc.

Job Number: 220-3395-1
Sdg Number: 220-3395

Client Sample ID: EHS-GP-01(44-45)

Lab Sample ID: 220-3395-3
Client Matrix: Solid

% Moisture: 6.5

Date Sampled: 11/13/2007 1517
Date Received: 11/15/2007 1634

8260B Volatile Organic Compounds by GC/MS

Method: 8260B
Preparation: 5030B
Dilution: 1.0
Date Analyzed: 11/20/2007 2331
Date Prepared: 11/20/2007 2331

Analysis Batch: 220-11269

Instrument ID: HP 5890/5971A GC/MS
Lab File ID: N6058.D
Initial Weight/Volume: 5 g
Final Weight/Volume: 5 mL

Analyte	DryWt Corrected: Y	Result (ug/Kg)	Qualifier	MDL	RL
Acetone	21 V	~~7.2~~	~~J~~	2.5	21
Benzene		5.3	U	0.76	5.3
Bromodichloromethane		5.3	U	0.70	5.3
Bromoform		5.3	U	1.9	5.3
Bromomethane		5.3	U	1.6	5.3
Methyl Ethyl Ketone		11	U	3.6	11
Carbon disulfide		5.3	U	0.57	5.3
Carbon tetrachloride		5.3	U	0.76	5.3
Chlorobenzene		5.3	U	0.94	5.3
Chloroethane		5.3	U	1.4	5.3
Chloroform		5.3	U	0.57	5.3
Chloromethane		5.3	U	1.1	5.3
Dibromochloromethane		5.3	U	1.1	5.3
1,1-Dichloroethane		5.3	U	0.70	5.3
1,2-Dichloroethane		5.3	U	1.2	5.3
1,1-Dichloroethene		5.3	U	0.84	5.3
1,2-Dichloropropane		5.3	U	1.0	5.3
cis-1,3-Dichloropropene		5.3	U	0.66	5.3
trans-1,3-Dichloropropene		5.3	U	1.1	5.3
Ethylbenzene		5.3	U	0.76	5.3
2-Hexanone		11	U	2.8	11
Methylene Chloride	21 V	~~2.8~~	~~J~~	1.5	21
methyl isobutyl ketone		5.3	U	1.0	5.3
Styrene		5.3	U	1.4	5.3
1,1,2,2-Tetrachloroethane		5.3	U	1.1	5.3
Tetrachloroethene		5.3	U	0.79	5.3
Toluene		1.1	J J	0.63	5.3
1,1,1-Trichloroethane		5.3	U	0.78	5.3
1,1,2-Trichloroethane		5.3	U	0.93	5.3
Trichloroethene		5.3	U	1.1	5.3
Vinyl chloride		5.3	U	1.4	5.3
Xylenes, Total		5.3	U	2.6	5.3
cis-1,2-Dichloroethene		5.3	U	0.98	5.3
trans-1,2-Dichloroethene		5.3	U	1.0	5.3

Surrogate	%Rec	Acceptance Limits
1,2-Dichloroethane-d4 (Surr)	93	49 - 134
4-Bromofluorobenzene	97	36 - 133
Dibromofluoromethane	94	60 - 130
Toluene-d8 (Surr)	95	51 - 137

EHM 1/9/08 DB 1/10/08

Client: GEI Consultants, Inc.

Job Number: 220-3395-1
Sdg Number: 220-3395

Client Sample ID: EHS-GP-01(44-45)

Lab Sample ID: 220-3395-3
Client Matrix: Solid
% Moisture: 6.5
Date Sampled: 11/13/2007 1517
Date Received: 11/15/2007 1634

8270C Semivolatile Compounds by Gas Chromatography/Mass Spectrometry (GC/MS)

Method: 8270C
Preparation: 3541
Dilution: 1.0
Date Analyzed: 11/27/2007 2116
Date Prepared: 11/27/2007 0953
Analysis Batch: 220-11422
Prep Batch: 220-11378
Instrument ID: HP 6890/5973 GC/MS
Lab File ID: U2138.D
Initial Weight/Volume: 15.28 g
Final Weight/Volume: 1 mL
Injection Volume: 1 uL

Analyte	DryWt Corrected: Y	Result (ug/Kg)	Qualifier	MDL	RL
Acenaphthene		350	U	61	350
Acenaphthylene		350	U	66	350
Anthracene		350	U	56	350
Benzo[a]anthracene		350	U	50	350
Benzo[a]pyrene		350	U	44	350
Benzo[b]fluoranthene		350	U	59	350
Benzo[g,h,i]perylene		350	U	68	350
Benzo[k]fluoranthene		350	U	57	350
Bis(2-chloroethoxy)methane		350	U	56	350
Bis(2-chloroethyl)ether		350	U	170	350
Bis(2-ethylhexyl) phthalate		350	U	44	350
Butyl benzyl phthalate		350	U	49	350
Carbazole		350	U	59	350
Chrysene		350	U	61	350
Di-n-butyl phthalate		350	U	53	350
Di-n-octyl phthalate		350	U	55	350
4-Bromophenyl phenyl ether		350	U	56	350
4-Chloroaniline		350	U	46	350
2-Chloronaphthalene		350	U	60	350
4-Chlorophenyl phenyl ether		350	U	68	350
Dibenz(a,h)anthracene		350	U	52	350
Dibenzofuran		350	U	61	350
Diethyl phthalate		350	U	86	350
Dimethyl phthalate		350	U	61	350
1,2-Dichlorobenzene		350	U	55	350
1,3-Dichlorobenzene		350	U	56	350
1,4-Dichlorobenzene		350	U	54	350
3,3'-Dichlorobenzidine		690	U	39	690
2,4-Dinitrotoluene		350	U	53	350
2,6-Dinitrotoluene		350	U	140	350
Fluoranthene		350	U	57	350
Fluorene		350	U	59	350
Hexachlorobenzene		350	U	60	350
Hexachlorobutadiene		350	U	66	350
Hexachlorocyclopentadiene		350	U	49	350
Hexachloroethane		350	U	60	350
Indeno[1,2,3-cd]pyrene		350	U	61	350
Isophorone		350	U	71	350
2-Methylnaphthalene		350	U	64	350
Naphthalene		350	U	53	350
2-Nitroaniline		1700	U	47	1700
3-Nitroaniline		1700	U	49	1700
Nitrobenzene		350	U	64	350
N-Nitrosodi-n-propylamine		350	U	77	350

DB 1/18/08 EMH 1/10/08

Client: GEI Consultants, Inc.

Job Number: 220-3395-1
Sdg Number: 220-3395

Client Sample ID: EHS-GP-01(44-45)

Lab Sample ID: 220-3395-3
Client Matrix: Solid
% Moisture: 6.5
Date Sampled: 11/13/2007 1517
Date Received: 11/15/2007 1634

8270C Semivolatile Compounds by Gas Chromatography/Mass Spectrometry (GC/MS)

Method: 8270C
Preparation: 3541
Dilution: 1.0
Date Analyzed: 11/27/2007 2116
Date Prepared: 11/27/2007 0953
Analysis Batch: 220-11422
Prep Batch: 220-11378
Instrument ID: HP 6890/5973 GC/MS
Lab File ID: U2138.D
Initial Weight/Volume: 15.28 g
Final Weight/Volume: 1 mL
Injection Volume: 1 uL

Analyte	DryWt Corrected: Y	Result (ug/Kg)	Qualifier	MDL	RL
N-Nitrosodiphenylamine		350	U	62	350
Phenanthrene		350	U	57	350
Pyrene		350	U	51	350
1,2,4-Trichlorobenzene		350	U	55	350
4-Chloro-3-methylphenol		350	U	69	350
2-Chlorophenol		350	U	75	350
2-Methylphenol		350	U	55	350
4-Methylphenol		350	U	52	350
2,4-Dichlorophenol		350	U	72	350
2,4-Dimethylphenol		350	U	46	350
2,4-Dinitrophenol		1700	U	230	1700
4,6-Dinitro-2-methylphenol		1700	U	270	1700
2-Nitrophenol		350	U	74	350
4-Nitrophenol		1700	U	160	1700
Pentachlorophenol		1700	U	24	1700
Phenol		350	U	41	350
2,4,5-Trichlorophenol		1700	U	53	1700
2,4,6-Trichlorophenol		350	U	51	350
Benzyl alcohol		350	U	72	350
4-Nitroaniline		690	U	52	690
2,2'-oxybis[1-chloropropane]		350	U	56	350

Surrogate	%Rec	Acceptance Limits
2-Fluorobiphenyl	70	32 - 131
2-Fluorophenol	61	25 - 113
2,4,6-Tribromophenol	94	24 - 150
Nitrobenzene-d5	59	25 - 120
Phenol-d5	66	27 - 122
Terphenyl-d14	94	35 - 140

DS 1/8/08 EHM 1/10/08

Client: GEI Consultants, Inc.

Job Number: 220-3395-1
Sdg Number: 220-3395

Client Sample ID: EHS-GP-01(44-45)

Lab Sample ID: 220-3395-3
Client Matrix: Solid

% Moisture: 6.5

Date Sampled: 11/13/2007 1517
Date Received: 11/15/2007 1634

6010B Inductively Coupled Plasma - Atomic Emission Spectrometry

Method: 6010B
Preparation: 3050B
Dilution: 1.0
Date Analyzed: 11/21/2007 1532
Date Prepared: 11/19/2007 1407

Analysis Batch: 220-11308
Prep Batch: 220-11213

Instrument ID: TJA Trace ICAP
Lab File ID: W112107
Initial Weight/Volume: 1.27 g
Final Weight/Volume: 250 mL

Analyte	DryWt Corrected: Y	Result (mg/Kg)	Qualifier	MDL	RL
Silver		3.2	U	0.32	3.2
Aluminum		425		9.7	105
Arsenic		8.4	U	1.4	8.4
Barium		2.6	J ✓	0.23	2.1
Beryllium		2.1	U	0.48	2.1
Calcium		~~44.1~~ 2.11	~~J~~ U ✓	13.1	211
Cadmium		5.3	U	0.97	5.3
Cobalt		0.61	J ✓	0.55	2.1
Chromium		1.6	J ✓	0.36	3.2
Copper		0.55	J ✓	0.46	5.3
Iron		1170		10.3	63.2
Potassium		~~64.4~~ 2.11	U ✓ ~~J~~	25.3	211
Magnesium		132	J ✓	6.5	36.8
Manganese		14.2		0.69	6.3
Sodium		25.3	J ✓	20.0	211
Nickel		0.53	J ✓	0.46	5.3
Lead		5.3	U	0.88	5.3
Antimony		10.5	U J	1.5	10.5
Selenium		10.5	U	1.7	10.5
Thallium		15.8	U	2.3	15.8
Vanadium		1.7	J	0.34	4.2
Zinc		21.1	U	2.3	21.1

7471A Mercury in Solid or Semisolid Waste (Manual Cold Vapor Technique)

Method: 7471A
Preparation: 7471A
Dilution: 1.0
Date Analyzed: 11/21/2007 0948
Date Prepared: 11/20/2007 1555

Analysis Batch: 220-11278
Prep Batch: 220-11264

Instrument ID: Perkin Elmer FIMS
Lab File ID: N/A
Initial Weight/Volume: 0.61 g
Final Weight/Volume: 50 mL

Analyte	DryWt Corrected: Y	Result (mg/Kg)	Qualifier	MDL	RL
Mercury		0.053 ✓	U	0.013	0.053

DB 1/18/08

Dan 1/2/08

Client: GEI Consultants, Inc.

Job Number: 220-3395-1
Sdg Number: 220-3395

Client Sample ID: EHS-GP-01(44-45)

Lab Sample ID: 220-3395-3
Client Matrix: Solid

% Moisture: 6.5

Date Sampled: 11/13/2007 1517
Date Received: 11/15/2007 1634

8081A Organochlorine Pesticides by Gas Chromatography

Method: 8081A
Preparation: 3550B
Dilution: 1.0
Date Analyzed: 12/03/2007 1712
Date Prepared: 11/27/2007 1227

Analysis Batch: 220-11521
Prep Batch: 220-11392

Instrument ID: HP 5890 with dual ECD
Lab File ID: D7507051.D
Initial Weight/Volume: 30.23 g
Final Weight/Volume: 10.0 mL
Injection Volume: 1 uL
Column ID: PRIMARY

Analyte	DryWt Corrected: Y Result (ug/Kg)	Qualifier	MDL	RL
4,4'-DDD	3.5	UJ	0.40	3.5
4,4'-DDE	3.5	U	0.46	3.5
4,4'-DDT	3.5	UJ	0.33	3.5
Aldrin	2.1	U	0.38	2.1
alpha-BHC	1.8	U	0.29	1.8
beta-BHC	1.8	U	0.29	1.8
delta-BHC	1.8	U	0.11	1.8
Dieldrin	3.5	U	0.34	3.5
Endosulfan I	1.8	U	0.16	1.8
Endosulfan II	3.5	U	0.18	3.5
Endosulfan sulfate	3.5	U	0.18	3.5
Endrin	5.3	U	0.94	5.3
Endrin aldehyde	3.5	U	0.34	3.5
Endrin ketone	3.5	U	0.15	3.5
gamma-BHC (Lindane)	1.8	U	0.16	1.8
Heptachlor	1.8	U	0.16	1.8
Heptachlor epoxide	0.64	J	0.12	1.8
Methoxychlor	18	U	2.2	18
Toxaphene	71	U	1.9	71
alpha-Chlordane	1.8	U	0.12	1.8
gamma-Chlordane	1.8	U	0.097	1.8

Surrogate	%Rec	Acceptance Limits
DCB Decachlorobiphenyl	99	25 - 159
Tetrachloro-m-xylene	79	24 - 154

Method: 8081A
Preparation: 3550B
Dilution: 1.0
Date Analyzed: 12/03/2007 1712
Date Prepared: 11/27/2007 1227

Analysis Batch: 220-11521
Prep Batch: 220-11392

Instrument ID: HP 5890 with dual ECD
Lab File ID: C7507051.D
Initial Weight/Volume: 30.23 g
Final Weight/Volume: 10.0 mL
Injection Volume: 1 uL
Column ID: SECONDARY

Surrogate	%Rec	Acceptance Limits
DCB Decachlorobiphenyl	95	25 - 159
Tetrachloro-m-xylene	78	24 - 154

DS 11/18/08

Jam 1/1/08

Client: GEI Consultants, Inc.

Job Number: 220-3395-1
Sdg Number: 220-3395

Client Sample ID: **EHS-GP-01(44-45)**

Lab Sample ID: 220-3395-3
Client Matrix: Solid

% Moisture: 6.5

Date Sampled: 11/13/2007 1517
Date Received: 11/15/2007 1634

8082 Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Method: 8082
Preparation: 3550B
Dilution: 1.0
Date Analyzed: 11/29/2007 2258
Date Prepared: 11/27/2007 1227

Analysis Batch: 220-11497
Prep Batch: 220-11392

Instrument ID: HP 5890 with dual ECD
Lab File ID: D4663121.d
Initial Weight/Volume: 30.23 g
Final Weight/Volume: 10.0 mL
Injection Volume: 1 uL
Column ID: PRIMARY

Analyte	DryWt Corrected: Y Result (ug/Kg)	Qualifier	MDL	RL
PCB-1016	18	U	3.0	18
PCB-1221	35	U	1.6	35
PCB-1232	18	U	2.0	18
PCB-1242	18	U	3.2	18
PCB-1248	18	U	2.9	18
PCB-1254	18	U	1.3	18
PCB-1260	18	U	4.2	18

Surrogate	%Rec	Acceptance Limits
Tetrachloro-m-xylene	58	24 - 154
DCB Decachlorobiphenyl	79	25 - 159

DB 1/18/08

12/19/07

TestAmerica Connecticut

Client Sample ID: EHS-GP-01(44-45)

GC Semivolatiles

Lot-Sample #...:	A7K170204-003	Work Order #...:	KCH5L1AC	Matrix.....:	SO
Date Sampled...:	11/13/07 15:17	Date Received..:	11/17/07		
Prep Date.....:	11/26/07	Analysis Date..:	11/27/07		
Prep Batch #...:	7330014				
Dilution Factor:	1	Initial Wgt/Vol:	50.07 g	Final Wgt/Vol..:	100 mL
% Moisture.....:	13	Method.....:	SW846 8151A		

PARAMETER	RESULT	REPORTING LIMIT	UNITS	MDL
2,4-D	ND	92	ug/kg	41
2,4,5-TP	ND	23	ug/kg	2.5
2,4,5-T	ND	23	ug/kg	3.7

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
2,4-Dichlorophenylacetic acid	93	(19 - 122)

NOTE(S):

Results and reporting limits have been adjusted for dry weight.

DB 1/18/08

EMM 1/10/08

TestAmerica Connecticut

Client Sample ID: EHS-GP-01(44-45)

General Chemistry

Lot-Sample #...: A7K170204-003 Work Order #...: KCH5L Matrix.....: SO
Date Sampled...: 11/13/07 15:17 Date Received..: 11/17/07
% Moisture.....: 13

PARAMETER	RESULT	RL	UNITS	METHOD	PREPARATION-ANALYSIS DATE	PREP BATCH #
Acid-soluble sulfide	ND UJ ✓	34.5	mg/kg	SW846 9030B/9034	11/19/07	7323421
		Dilution Factor: 1		MDL.....: 6.4		
Percent Solids	86.9	10.0	%	MCAWW 160.3 MOD	11/26-11/27/07	7330568
		Dilution Factor: 1		MDL.....: 10.0		

NOTE(S):

RL Reporting Limit

Results and reporting limits have been adjusted for dry weight.

DAM 1/2/08

Client: GEI Consultants, Inc.

Job Number: 220-3395-1
Sdg Number: 220-3395

Client Sample ID: **EHS-GP-02(4-5)**

Lab Sample ID: 220-3395-1
Client Matrix: Solid
% Moisture: 13.0
Date Sampled: 11/13/2007 1317
Date Received: 11/15/2007 1634

8260B Volatile Organic Compounds by GC/MS

Method: 8260B
Preparation: 5030B
Dilution: 1.0
Date Analyzed: 11/21/2007 1309
Date Prepared: 11/21/2007 1309
Analysis Batch: 220-11324
Instrument ID: HP 5890/5971A GC/MS
Lab File ID: N6076.D
Initial Weight/Volume: 5 g
Final Weight/Volume: 5 mL

Analyte	DryWt Corrected: Y	Result (ug/Kg)	Qualifier	MDL	RL
Acetone	23 U ✓	~~6.2~~	~~J~~	2.7	23
Benzene		5.7	U	0.82	5.7
Bromodichloromethane		5.7	U	0.75	5.7
Bromoform		5.7	U	2.0	5.7
Bromomethane		5.7	U	1.7	5.7
Methyl Ethyl Ketone		11	U	3.9	11
Carbon disulfide		5.7	U	0.61	5.7
Carbon tetrachloride		5.7	U	0.82	5.7
Chlorobenzene		5.7	U	1.0	5.7
Chloroethane		5.7	U	1.5	5.7
Chloroform		5.7	U	0.61	5.7
Chloromethane		5.7	U	1.2	5.7
Dibromochloromethane		5.7	U	1.2	5.7
1,1-Dichloroethane		5.7	U	0.75	5.7
1,2-Dichloroethane		5.7	U	1.2	5.7
1,1-Dichloroethene		5.7	U	0.91	5.7
1,2-Dichloropropane		5.7	U	1.1	5.7
cis-1,3-Dichloropropene		5.7	U	0.71	5.7
trans-1,3-Dichloropropene		5.7	U	1.2	5.7
Ethylbenzene		5.7	U	0.82	5.7
2-Hexanone		11	U	3.0	11
Methylene Chloride	23U ✓	~~2.9~~	~~J~~	1.6	23
methyl isobutyl ketone		5.7	U	1.1	5.7
Styrene		5.7	U	1.5	5.7
1,1,2,2-Tetrachloroethane		5.7	U	1.2	5.7
Tetrachloroethene		5.7	U	0.85	5.7
Toluene		5.7	U	0.68	5.7
1,1,1-Trichloroethane		5.7	U	0.84	5.7
1,1,2-Trichloroethane		5.7	U	1.0	5.7
Trichloroethene		5.7	U	1.1	5.7
Vinyl chloride		5.7	U	1.5	5.7
Xylenes, Total		5.7	U	2.8	5.7
cis-1,2-Dichloroethene		5.7	U	1.1	5.7
trans-1,2-Dichloroethene		5.7	U	1.1	5.7

Surrogate	%Rec	Acceptance Limits
1,2-Dichloroethane-d4 (Surr)	88	49 - 134
4-Bromofluorobenzene	95	36 - 133
Dibromofluoromethane	91	60 - 130
Toluene-d8 (Surr)	92	51 - 137

DB

EMM 1/9/08 1/18/08 12/19/2007

Client: GEI Consultants, Inc.

Job Number: 220-3395-1
Sdg Number: 220-3395

Client Sample ID: **EHS-GP-02(4-5)**

Lab Sample ID: 220-3395-1
Client Matrix: Solid
% Moisture: 13.0
Date Sampled: 11/13/2007 1317
Date Received: 11/15/2007 1634

8270C Semivolatile Compounds by Gas Chromatography/Mass Spectrometry (GC/MS)

Method: 8270C
Preparation: 3541
Dilution: 1.0
Date Analyzed: 11/27/2007 1934
Date Prepared: 11/27/2007 0953
Analysis Batch: 220-11422
Prep Batch: 220-11378
Instrument ID: HP 6890/5973 GC/MS
Lab File ID: U2134.D
Initial Weight/Volume: 15.04 g
Final Weight/Volume: 1 mL
Injection Volume: 1 uL

Analyte	DryWt Corrected: Y	Result (ug/Kg)	Qualifier	MDL	RL
Acenaphthene		380	U	66	380
Acenaphthylene		380	U	72	380
Anthracene		380	U	61	380
Benzo[a]anthracene		380	U	55	380
Benzo[a]pyrene		380	U	48	380
Benzo[b]fluoranthene		380	U	65	380
Benzo[g,h,i]perylene		380	U	74	380
Benzo[k]fluoranthene		380	U	62	380
Bis(2-chloroethoxy)methane		380	U	61	380
Bis(2-chloroethyl)ether		380	U	190	380
Bis(2-ethylhexyl) phthalate		380	U	48	380
Butyl benzyl phthalate		380	U	53	380
Carbazole		380	U	64	380
Chrysene		380	U	66	380
Di-n-butyl phthalate		380	U	58	380
Di-n-octyl phthalate		380	U	60	380
4-Bromophenyl phenyl ether		380	U	61	380
4-Chloroaniline		380	U	51	380
2-Chloronaphthalene		380	U	66	380
4-Chlorophenyl phenyl ether		380	U	74	380
Dibenz(a,h)anthracene		380	U	57	380
Dibenzofuran		380	U	66	380
Diethyl phthalate		380	U	94	380
Dimethyl phthalate		380	U	67	380
1,2-Dichlorobenzene		380	U	60	380
1,3-Dichlorobenzene		380	U	61	380
1,4-Dichlorobenzene		380	U	59	380
3,3'-Dichlorobenzidine		760	U	42	760
2,4-Dinitrotoluene		380	U	58	380
2,6-Dinitrotoluene		380	U	150	380
Fluoranthene		380	U	63	380
Fluorene		380	U	64	380
Hexachlorobenzene		380	U	65	380
Hexachlorobutadiene		380	U	72	380
Hexachlorocyclopentadiene		380	U	54	380
Hexachloroethane		380	U	66	380
Indeno[1,2,3-cd]pyrene		380	U	67	380
Isophorone		380	U	78	380
2-Methylnaphthalene		380	U	69	380
Naphthalene		380	U	58	380
2-Nitroaniline		1800	U	51	1800
3-Nitroaniline		1800	U	54	1800
Nitrobenzene		380	U	70	380
N-Nitrosodi-n-propylamine		380	U	84	380

EHM 1/10/08 DB 1/18/08

Client: GEI Consultants, Inc.

Job Number: 220-3395-1
Sdg Number: 220-3395

Client Sample ID: EHS-GP-02(4-5)

Lab Sample ID: 220-3395-1
Client Matrix: Solid
% Moisture: 13.0
Date Sampled: 11/13/2007 1317
Date Received: 11/15/2007 1634

8270C Semivolatile Compounds by Gas Chromatography/Mass Spectrometry (GC/MS)

Method: 8270C
Preparation: 3541
Dilution: 1.0
Date Analyzed: 11/27/2007 1934
Date Prepared: 11/27/2007 0953
Analysis Batch: 220-11422
Prep Batch: 220-11378
Instrument ID: HP 6890/5973 GC/MS
Lab File ID: U2134.D
Initial Weight/Volume: 15.04 g
Final Weight/Volume: 1 mL
Injection Volume: 1 uL

Analyte	DryWt Corrected: Y	Result (ug/Kg)	Qualifier	MDL	RL
N-Nitrosodiphenylamine		380	U	68	380
Phenanthrene		380	U	62	380
Pyrene		380	U	55	380
1,2,4-Trichlorobenzene		380	U	60	380
4-Chloro-3-methylphenol		380	U	76	380
2-Chlorophenol		380	U	82	380
2-Methylphenol		380	U	60	380
4-Methylphenol		380	U	57	380
2,4-Dichlorophenol		380	U	78	380
2,4-Dimethylphenol		380	U	51	380
2,4-Dinitrophenol		1800	U	250	1800
4,6-Dinitro-2-methylphenol		1800	U	290	1800
2-Nitrophenol		380	U	81	380
4-Nitrophenol		1800	U	170	1800
Pentachlorophenol		1800	U	27	1800
Phenol		380	U	45	380
2,4,5-Trichlorophenol		1800	U	57	1800
2,4,6-Trichlorophenol		380	U	55	380
Benzyl alcohol		380	U	78	380
4-Nitroaniline		760	U	57	760
2,2'-oxybis[1-chloropropane]		380	U	61	380

Surrogate	%Rec	Acceptance Limits
2-Fluorobiphenyl	50	32 - 131
2-Fluorophenol	46	25 - 113
2,4,6-Tribromophenol	76	24 - 150
Nitrobenzene-d5	44	25 - 120
Phenol-d5	50	27 - 122
Terphenyl-d14	80	35 - 140

DB 11/18/08 EHM 1/10/08

Client: GEI Consultants, Inc.

Job Number: 220-3395-1
Sdg Number: 220-3395

Client Sample ID: EHS-GP-02(4-5)

Lab Sample ID: 220-3395-1
Client Matrix: Solid

% Moisture: 13.0

Date Sampled: 11/13/2007 1317
Date Received: 11/15/2007 1634

6010B Inductively Coupled Plasma - Atomic Emission Spectrometry

Method: 6010B
Preparation: 3050B
Dilution: 1.0
Date Analyzed: 11/21/2007 1501
Date Prepared: 11/19/2007 1407

Analysis Batch: 220-11308
Prep Batch: 220-11213

Instrument ID: TJA Trace ICAP
Lab File ID: W112107
Initial Weight/Volume: 1.13 g
Final Weight/Volume: 250 mL

Analyte	DryWt Corrected: Y	Result (mg/Kg)	Qualifier	MDL	RL
Silver		3.8	U	0.38	3.8
Aluminum		4420	J	11.7	127
Arsenic		1.9	J	1.7	10.2
Barium		16.8	J	0.28	2.5
Beryllium		2.5	U	0.58	2.5
Calcium		247	J	15.8	254
Cadmium		6.4	U	1.2	6.4
Cobalt		5.1	J	0.66	2.5
Chromium		6.8	J	0.43	3.8
Copper		5.0	J	0.56	6.4
Iron		9260		12.5	76.3
Potassium		325	J	30.5	254
Magnesium		923	J	7.9	44.5
Manganese		150		0.84	7.6
Sodium		31.4	J	24.2	254
Nickel		4.4	J	0.56	6.4
Lead		6.1	J	1.1	6.4
Antimony		12.7	UJ	1.8	12.7
Selenium		12.7	U	2.1	12.7
Thallium		19.1	U	2.8	19.1
Vanadium		11.0	J	0.41	5.1
Zinc		12.9	J	2.8	25.4

7471A Mercury in Solid or Semisolid Waste (Manual Cold Vapor Technique)

Method: 7471A
Preparation: 7471A
Dilution: 1.0
Date Analyzed: 11/21/2007 0944
Date Prepared: 11/20/2007 1555

Analysis Batch: 220-11278
Prep Batch: 220-11264

Instrument ID: Perkin Elmer FIMS
Lab File ID: N/A
Initial Weight/Volume: 0.65 g
Final Weight/Volume: 50 mL

Analyte	DryWt Corrected: Y	Result (mg/Kg)	Qualifier	MDL	RL
Mercury		0.053	U	0.013	0.053

Client: GEI Consultants, Inc.

Job Number: 220-3395-1
Sdg Number: 220-3395

Client Sample ID: EHS-GP-02(4-5)

Lab Sample ID: 220-3395-1
Client Matrix: Solid

% Moisture: 13.0

Date Sampled: 11/13/2007 1317
Date Received: 11/15/2007 1634

8081A Organochlorine Pesticides by Gas Chromatography

Method: 8081A
Preparation: 3550B
Dilution: 1.0
Date Analyzed: 12/03/2007 1547
Date Prepared: 11/27/2007 1227

Analysis Batch: 220-11521
Prep Batch: 220-11392

Instrument ID: HP 5890 with dual ECD
Lab File ID: D7507047.D
Initial Weight/Volume: 30.12 g
Final Weight/Volume: 10.0 mL
Injection Volume: 1 uL
Column ID: PRIMARY

Analyte	DryWt Corrected: Y	Result (ug/Kg)	Qualifier	MDL	RL
4,4'-DDD		3.8	UJ	0.44	3.8
4,4'-DDE		3.8	U	0.50	3.8
4,4'-DDT		3.8	UJ	0.35	3.8
Aldrin		2.3	U	0.41	2.3
alpha-BHC		1.9	U	0.31	1.9
beta-BHC		1.9	U	0.31	1.9
delta-BHC		1.9	U	0.12	1.9
Dieldrin		3.8	U	0.37	3.8
Endosulfan I		1.9	U	0.17	1.9
Endosulfan II		3.8	U	0.19	3.8
Endosulfan sulfate		3.8	U	0.20	3.8
Endrin		5.7	U	1.0	5.7
Endrin aldehyde		3.8	U	0.37	3.8
Endrin ketone		3.8	U	0.16	3.8
gamma-BHC (Lindane)		1.9	U	0.17	1.9
Heptachlor		1.9	U	0.17	1.9
Heptachlor epoxide		1.9	U	0.13	1.9
Methoxychlor		19	U	2.4	19
Toxaphene		77	U	2.0	77
alpha-Chlordane		1.9	U	0.13	1.9
gamma-Chlordane		1.9	U	0.10	1.9

Surrogate	%Rec	Acceptance Limits
DCB Decachlorobiphenyl	104	25 - 159
Tetrachloro-m-xylene	103	24 - 154

Method: 8081A
Preparation: 3550B
Dilution: 1.0
Date Analyzed: 12/03/2007 1547
Date Prepared: 11/27/2007 1227

Analysis Batch: 220-11521
Prep Batch: 220-11392

Instrument ID: HP 5890 with dual ECD
Lab File ID: C7507047.D
Initial Weight/Volume: 30.12 g
Final Weight/Volume: 10.0 mL
Injection Volume: 1 uL
Column ID: SECONDARY

Surrogate	%Rec	Acceptance Limits
DCB Decachlorobiphenyl	101	25 - 159
Tetrachloro-m-xylene	101	24 - 154

DB
1/16/08

Pam 01/04/08

Client: GEI Consultants, Inc.

Job Number: 220-3395-1
Sdg Number: 220-3395

Client Sample ID: EHS-GP-02(4-5)

Lab Sample ID: 220-3395-1
Client Matrix: Solid
% Moisture: 13.0

Date Sampled: 11/13/2007 1317
Date Received: 11/15/2007 1634

8082 Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Method: 8082
Preparation: 3550B
Dilution: 1.0
Date Analyzed: 11/29/2007 2151
Date Prepared: 11/27/2007 1227

Analysis Batch: 220-11497
Prep Batch: 220-11392

Instrument ID: HP 5890 with dual ECD
Lab File ID: D4663117.d
Initial Weight/Volume: 30.12 g
Final Weight/Volume: 10.0 mL
Injection Volume: 1 uL
Column ID: PRIMARY

Analyte	DryWt Corrected: Y	Result (ug/Kg)	Qualifier	MDL	RL
PCB-1016		19	U	3.2	19
PCB-1221		38	U	1.8	38
PCB-1232		19	U	2.1	19
PCB-1242		19	U	3.4	19
PCB-1248		19	U	3.1	19
PCB-1254		19	U	1.4	19
PCB-1260		19	U	4.6	19

Surrogate	%Rec	Acceptance Limits
Tetrachloro-m-xylene	78	24 - 154
DCB Decachlorobiphenyl	92	25 - 159

DB 1/18/08

12/3/07

TestAmerica Connecticut

Client Sample ID: EHS-GP-02(4-5)

GC Semivolatiles

Lot-Sample #...:	A7K170204-001	Work Order #...:	KCH5F1AC	Matrix.....:	SO
Date Sampled...:	11/13/07 13:17	Date Received..:	11/17/07		
Prep Date.....:	11/26/07	Analysis Date..:	11/27/07		
Prep Batch #...:	7330014				
Dilution Factor:	1	Initial Wgt/Vol:	50.06 g	Final Wgt/Vol..:	100 mL
% Moisture.....:	13	Method.....:	SW846 8151A		

PARAMETER	RESULT	REPORTING LIMIT	UNITS	MDL
2,4-D	ND	92	ug/kg	41
2,4,5-TP	ND	23	ug/kg	2.5
2,4,5-T	ND	23	ug/kg	3.7

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
2,4-Dichlorophenylacetic acid	82	(19 - 122)

NOTE(S):

Results and reporting limits have been adjusted for dry weight.

DB 1/18/08 EMM 1/10/08

TestAmerica Connecticut

Client Sample ID: EHS-GP-02(4-5)

General Chemistry

Lot-Sample #...: A7K170204-001 Work Order #...: KCH5F Matrix.....: SO
Date Sampled...: 11/13/07 13:17 Date Received..: 11/17/07
% Moisture.....: 13

PARAMETER	RESULT	RL	UNITS	METHOD	PREPARATION-ANALYSIS DATE	PREP BATCH #
Acid-soluble sulfide	10.2 BJ	34.3	mg/kg	SW846 9030B/9034	11/19/07	7323421
	Dilution Factor: 1			MDL.....: 6.4		
Percent Solids	87.4	10.0	%	MCAWW 160.3 MOD	11/26-11/27/07	7330568
	Dilution Factor: 1			MDL.....: 10.0		

NOTE(S):

RL Reporting Limit

Results and reporting limits have been adjusted for dry weight.

B Estimated result. Result is less than RL.

Jam 1/2/08

Duplicate of EHS-GP-02 (4-5)

Analytical Data

Client: GEI Consultants, Inc.

Job Number: 220-3395-1
Sdg Number: 220-3395

Client Sample ID: **EHS-GP-XX(XX)**

Lab Sample ID: 220-3395-6
Client Matrix: Solid
% Moisture: 25.9
Date Sampled: 11/13/2007 0000
Date Received: 11/15/2007 1634

8260B Volatile Organic Compounds by GC/MS

Method: 8260B
Preparation: 5030B
Dilution: 1.0
Date Analyzed: 11/21/2007 0047
Date Prepared: 11/21/2007 0047
Analysis Batch: 220-11269
Instrument ID: HP 5890/5971A GC/MS
Lab File ID: N6061.D
Initial Weight/Volume: 5 g
Final Weight/Volume: 5 mL

Analyte	DryWt Corrected: Y	Result (ug/Kg)	Qualifier	MDL	RL
Acetone	✓ 27U	~~5.6~~	~~J~~	3.2	27
Benzene		6.7	U	0.96	6.7
Bromodichloromethane		6.7	U	0.88	6.7
Bromoform		6.7	U	2.3	6.7
Bromomethane		6.7	U	2.1	6.7
Methyl Ethyl Ketone		13	U	4.5	13
Carbon disulfide		6.7	U	0.72	6.7
Carbon tetrachloride		6.7	U	0.96	6.7
Chlorobenzene		6.7	U	1.2	6.7
Chloroethane		6.7	U	1.7	6.7
Chloroform		6.7	U	0.72	6.7
Chloromethane		6.7	U	1.4	6.7
Dibromochloromethane		6.7	U	1.4	6.7
1,1-Dichloroethane		6.7	U	0.88	6.7
1,2-Dichloroethane		6.7	U	1.5	6.7
1,1-Dichloroethene		6.7	U	1.1	6.7
1,2-Dichloropropane		6.7	U	1.3	6.7
cis-1,3-Dichloropropene		6.7	U	0.84	6.7
trans-1,3-Dichloropropene		6.7	U	1.4	6.7
Ethylbenzene		6.7	U	0.96	6.7
2-Hexanone		13	U	3.6	13
Methylene Chloride	✓ 27U	~~5.0~~	~~J~~	1.9	27
methyl isobutyl ketone		6.7	U	1.3	6.7
Styrene		6.7	U	1.7	6.7
1,1,2,2-Tetrachloroethane		6.7	U	1.4	6.7
Tetrachloroethene		6.7	U	1.0	6.7
Toluene		0.82	J ~~J~~ ✓	0.80	6.7
1,1,1-Trichloroethane		6.7	U	0.99	6.7
1,1,2-Trichloroethane		6.7	U	1.2	6.7
Trichloroethene		6.7	U	1.3	6.7
Vinyl chloride		6.7	U	1.8	6.7
Xylenes, Total		6.7	U	3.3	6.7
cis-1,2-Dichloroethene		6.7	U	1.2	6.7
trans-1,2-Dichloroethene		6.7	U	1.3	6.7

Surrogate	%Rec	Acceptance Limits
1,2-Dichloroethane-d4 (Surr)	94	49 - 134
4-Bromofluorobenzene	91	36 - 133
Dibromofluoromethane	96	60 - 130
Toluene-d8 (Surr)	89	51 - 137

DS 1/18/08

EMH 1/9/08

Duplicate of
EHS-GP-02(4-5)

Analytical Data

Client: GEI Consultants, Inc.

Job Number: 220-3395-1
Sdg Number: 220-3395

Client Sample ID: **EHS-GP-XX(XX)**

Lab Sample ID: 220-3395-6
Client Matrix: Solid
% Moisture: 25.9

Date Sampled: 11/13/2007 0000
Date Received: 11/15/2007 1634

8270C Semivolatile Compounds by Gas Chromatography/Mass Spectrometry (GC/MS)

Method: 8270C
Preparation: 3541
Dilution: 1.0
Date Analyzed: 11/27/2007 2233
Date Prepared: 11/27/2007 0953

Analysis Batch: 220-11422
Prep Batch: 220-11378

Instrument ID: HP 6890/5973 GC/MS
Lab File ID: U2141.D
Initial Weight/Volume: 15.45 g
Final Weight/Volume: 1 mL
Injection Volume: 1 uL

Analyte	DryWt Corrected: Y	Result (ug/Kg)	Qualifier	MDL	RL
Acenaphthene		430	U	76	430
Acenaphthylene		430	U	82	430
Anthracene		430	U	70	430
Benzo[a]anthracene		430	U	63	430
Benzo[a]pyrene		430	U	55	430
Benzo[b]fluoranthene		430	U	74	430
Benzo[g,h,i]perylene		430	U	85	430
Benzo[k]fluoranthene		430	U	71	430
Bis(2-chloroethoxy)methane		430	U	70	430
Bis(2-chloroethyl)ether		430	U	210	430
Bis(2-ethylhexyl) phthalate		430	U	55	430
Butyl benzyl phthalate		430	U	61	430
Carbazole		430	U	74	430
Chrysene		430	U	76	430
Di-n-butyl phthalate		430	U	67	430
Di-n-octyl phthalate		430	U	68	430
4-Bromophenyl phenyl ether		430	U	70	430
4-Chloroaniline		430	U	58	430
2-Chloronaphthalene		430	U	75	430
4-Chlorophenyl phenyl ether		430	U	85	430
Dibenz(a,h)anthracene		430	U	66	430
Dibenzofuran		430	U	76	430
Diethyl phthalate		430	U	110	430
Dimethyl phthalate		430	U	76	430
1,2-Dichlorobenzene		430	U	68	430
1,3-Dichlorobenzene		430	U	70	430
1,4-Dichlorobenzene		430	U	68	430
3,3'-Dichlorobenzidine		870	U	48	870
2,4-Dinitrotoluene		430	U	66	430
2,6-Dinitrotoluene		430	U	170	430
Fluoranthene		430	U	72	430
Fluorene		430	U	74	430
Hexachlorobenzene		430	U	75	430
Hexachlorobutadiene		430	U	82	430
Hexachlorocyclopentadiene		430	U	61	430
Hexachloroethane		430	U	75	430
Indeno[1,2,3-cd]pyrene		430	U	77	430
Isophorone		430	U	89	430
2-Methylnaphthalene		430	U	79	430
Naphthalene		430	U	66	430
2-Nitroaniline		2100	U	58	2100
3-Nitroaniline		2100	U	62	2100
Nitrobenzene		430	U	80	430
N-Nitrosodi-n-propylamine		430	U	97	430

DP 11/18/08 EHM 11/10/08

Duplicate of EHS-GP-02(4-5)

Analytical Data

Client: GEI Consultants, Inc.

Job Number: 220-3395-1
Sdg Number: 220-3395

Client Sample ID: **EHS-GP-XX(XX)**

Lab Sample ID: 220-3395-6
Client Matrix: Solid
% Moisture: 25.9
Date Sampled: 11/13/2007 0000
Date Received: 11/15/2007 1634

8270C Semivolatile Compounds by Gas Chromatography/Mass Spectrometry (GC/MS)

Method: 8270C
Preparation: 3541
Dilution: 1.0
Date Analyzed: 11/27/2007 2233
Date Prepared: 11/27/2007 0953
Analysis Batch: 220-11422
Prep Batch: 220-11378
Instrument ID: HP 6890/5973 GC/MS
Lab File ID: U2141.D
Initial Weight/Volume: 15.45 g
Final Weight/Volume: 1 mL
Injection Volume: 1 uL

Analyte	DryWt Corrected: Y Result (ug/Kg)	Qualifier	MDL	RL
N-Nitrosodiphenylamine	430	U	78	430
Phenanthrene	430	U	71	430
Pyrene	430	U	63	430
1,2,4-Trichlorobenzene	430	U	69	430
4-Chloro-3-methylphenol	430	U	86	430
2-Chlorophenol	430	U	93	430
2-Methylphenol	430	U	68	430
4-Methylphenol	430	U	65	430
2,4-Dichlorophenol	430	U	90	430
2,4-Dimethylphenol	430	U	58	430
2,4-Dinitrophenol	2100	U	280	2100
4,6-Dinitro-2-methylphenol	2100	U	330	2100
2-Nitrophenol	430	U	93	430
4-Nitrophenol	2100	U	200	2100
Pentachlorophenol	2100	U	31	2100
Phenol	430	U	52	430
2,4,5-Trichlorophenol	2100	U	66	2100
2,4,6-Trichlorophenol	430	U	63	430
Benzyl alcohol	430	U	90	430
4-Nitroaniline	870	U	65	870
2,2'-oxybis[1-chloropropane]	430	U	70	430

Surrogate	%Rec	Acceptance Limits
2-Fluorobiphenyl	73	32 - 131
2-Fluorophenol	73	25 - 113
2,4,6-Tribromophenol	93	24 - 150
Nitrobenzene-d5	66	25 - 120
Phenol-d5	77	27 - 122
Terphenyl-d14	101	35 - 140

DF 1/18/08 ETT 1/10/08

Duplicate of EHS-GP-02(4-5)

Analytical Data

Client: GEI Consultants, Inc.

Job Number: 220-3395-1
Sdg Number: 220-3395

Client Sample ID: EHS-GP-XX(XX)

Lab Sample ID: 220-3395-6
Client Matrix: Solid

% Moisture: 25.9

Date Sampled: 11/13/2007 0000
Date Received: 11/15/2007 1634

6010B Inductively Coupled Plasma - Atomic Emission Spectrometry

Method: 6010B
Preparation: 3050B
Dilution: 1.0
Date Analyzed: 11/21/2007 1556
Date Prepared: 11/19/2007 1407

Analysis Batch: 220-11308
Prep Batch: 220-11213

Instrument ID: TJA Trace ICAP
Lab File ID: W112107
Initial Weight/Volume: 1.12 g
Final Weight/Volume: 250 mL

Analyte	DryWt Corrected: Y	Result (mg/Kg)	Qualifier	MDL	RL
Silver		4.5	U	0.45	4.5
Aluminum		14800	J ✓	13.9	151
Arsenic		2.9	J ✓	2.0	12.1
Barium		21.5	J ✓	0.33	3.0
Beryllium		3.0	U	0.69	3.0
Calcium		714	J ✓	18.7	301
Cadmium		7.5	U	1.4	7.5
Cobalt		5.4	J ✓	0.78	3.0
Chromium		17.7	J ✓	0.51	4.5
Copper		5.5	J ✓	0.66	7.5
Iron		13300		14.8	90.4
Potassium		391	J ✓	36.2	301
Magnesium		2460	J ✓	9.3	52.7
Manganese		115		0.99	9.0
Sodium		54.7	J	28.6	301
Nickel		10.7	J ✓	0.66	7.5
Lead		7.6		1.3	7.5
Antimony		15.1	UJ ✓	2.1	15.1
Selenium		15.1	U	2.5	15.1
Thallium		22.6	U	3.3	22.6
Vanadium		25.3	J ✓	0.48	6.0
Zinc		28.5	✓	3.3	30.1

7471A Mercury in Solid or Semisolid Waste (Manual Cold Vapor Technique)

Method: 7471A
Preparation: 7471A
Dilution: 1.0
Date Analyzed: 11/21/2007 0951
Date Prepared: 11/20/2007 1555

Analysis Batch: 220-11278
Prep Batch: 220-11264

Instrument ID: Perkin Elmer FIMS
Lab File ID: N/A
Initial Weight/Volume: 0.65 g
Final Weight/Volume: 50 mL

Analyte	DryWt Corrected: Y	Result (mg/Kg)	Qualifier	MDL	RL
Mercury		0.028	✓	0.016	0.062

DG 1/18/08
Jam 1/2/08

Duplicate of EHS-GP-02(4-5)

Analytical Data

Client: GEI Consultants, Inc.

Job Number: 220-3395-1
Sdg Number: 220-3395

Client Sample ID: EHS-GP-XX(XX)

Lab Sample ID: 220-3395-6
Client Matrix: Solid
% Moisture: 25.9

Date Sampled: 11/13/2007 0000
Date Received: 11/15/2007 1634

8081A Organochlorine Pesticides by Gas Chromatography

Method: 8081A
Preparation: 3550B
Dilution: 1.0
Date Analyzed: 12/03/2007 1816
Date Prepared: 11/27/2007 1227

Analysis Batch: 220-11521
Prep Batch: 220-11392

Instrument ID: HP 5890 with dual ECD
Lab File ID: D7507054.D
Initial Weight/Volume: 30.32 g
Final Weight/Volume: 10.0 mL
Injection Volume: 1 uL
Column ID: PRIMARY

Analyte	DryWt Corrected: Y Result (ug/Kg)	Qualifier	MDL	RL
4,4'-DDD	4.4	UJ	0.51	4.4
4,4'-DDE	4.4	U	0.58	4.4
4,4'-DDT	0.87	J	0.41	4.4
Aldrin	2.7	U	0.48	2.7
alpha-BHC	2.3	U	0.37	2.3
beta-BHC	2.3	U	0.36	2.3
delta-BHC	2.3	U	0.14	2.3
Dieldrin	4.4	U	0.43	4.4
Endosulfan I	2.3	U	0.20	2.3
Endosulfan II	4.4	U	0.23	4.4
Endosulfan sulfate	4.4	U	0.23	4.4
Endrin	6.7	U	1.2	6.7
Endrin aldehyde	4.4	U	0.43	4.4
Endrin ketone	4.4	U	0.19	4.4
gamma-BHC (Lindane)	2.3	U	0.20	2.3
Heptachlor	2.3	U	0.20	2.3
Heptachlor epoxide	2.3	U	0.15	2.3
Methoxychlor	23	U	2.8	23
Toxaphene	89	U	2.3	89
alpha-Chlordane	2.3	U	0.15	2.3
gamma-Chlordane	2.3	U	0.12	2.3

Surrogate	%Rec	Acceptance Limits
DCB Decachlorobiphenyl	120	25 - 159
Tetrachloro-m-xylene	108	24 - 154

Method: 8081A
Preparation: 3550B
Dilution: 1.0
Date Analyzed: 12/03/2007 1816
Date Prepared: 11/27/2007 1227

Analysis Batch: 220-11521
Prep Batch: 220-11392

Instrument ID: HP 5890 with dual ECD
Lab File ID: C7507054.D
Initial Weight/Volume: 30.32 g
Final Weight/Volume: 10.0 mL
Injection Volume: 1 uL
Column ID: SECONDARY

Surrogate	%Rec	Acceptance Limits
DCB Decachlorobiphenyl	117	25 - 159
Tetrachloro-m-xylene	107	24 - 154

Jam 1/1/08

DP 1/18/08

Duplicate of EHS-GP-02(4-5)

Analytical Data

Client: GEI Consultants, Inc.

Job Number: 220-3395-1
Sdg Number: 220-3395

Client Sample ID: **EHS-GP-XX(XX)**

Lab Sample ID: 220-3395-6
Client Matrix: Solid
% Moisture: 25.9
Date Sampled: 11/13/2007 0000
Date Received: 11/15/2007 1634

8082 Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Method: 8082
Preparation: 3550B
Dilution: 1.0
Date Analyzed: 11/29/2007 2348
Date Prepared: 11/27/2007 1227
Analysis Batch: 220-11497
Prep Batch: 220-11392
Instrument ID: HP 5890 with dual ECD
Lab File ID: D4663124.d
Initial Weight/Volume: 30.32 g
Final Weight/Volume: 10.0 mL
Injection Volume: 1 uL
Column ID: PRIMARY

Analyte	DryWt Corrected: Y	Result (ug/Kg)	Qualifier	MDL	RL
PCB-1016		23	U	3.8	23
PCB-1221		44	U	2.0	44
PCB-1232		23	U	2.5	23
PCB-1242		23	U	4.0	23
PCB-1248		23	U	3.6	23
PCB-1254		23	U	1.6	23
PCB-1260		23	U	5.3	23

Surrogate	%Rec	Acceptance Limits
Tetrachloro-m-xylene	53	24 - 154
DCB Decachlorobiphenyl	61	25 - 159

12/21/07

DB 1/18/08

Duplicate of EHS-GP-02(4-5)

TestAmerica Connecticut

Client Sample ID: EHS-GP-XX(XX)

GC Semivolatiles

Lot-Sample #...:	A7K170204-006	Work Order #...:	KCH5P1AC	Matrix.....:	SO
Date Sampled...:	11/13/07	Date Received..:	11/17/07		
Prep Date.....:	11/26/07	Analysis Date..:	11/27/07		
Prep Batch #...:	7330014				
Dilution Factor:	1	Initial Wgt/Vol:	50.06 g	Final Wgt/Vol..:	100 mL
% Moisture.....:	32	Method.....:	SW846 8151A		

PARAMETER	RESULT	REPORTING LIMIT	UNITS	MDL
2,4-D	ND	120	ug/kg	53
2,4,5-TP	ND	30	ug/kg	3.2
2,4,5-T	22 J	30	ug/kg	4.7

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
2,4-Dichlorophenylacetic acid	112	(19 - 122)

NOTE(S):

Results and reporting limits have been adjusted for dry weight.

J Estimated result. Result is less than RL.

DB 1/18/08

Emm 1/10/08

Duplicate of EHS-GP-02 (4-5)

TestAmerica Connecticut

Client Sample ID: EHS-GP-XX(XX)

General Chemistry

Lot-Sample #...: A7K170204-006 Work Order #...: KCH5P Matrix.....: SO
Date Sampled...: 11/13/07 Date Received..: 11/17/07
% Moisture.....: 32

PARAMETER	RESULT	RL	UNITS	METHOD	PREPARATION-ANALYSIS DATE	PREP BATCH #
Acid-soluble sulfide	ND UJ	44.3	mg/kg	SW846 9030B/9034	11/19/07	7323421
		Dilution Factor: 1		MDL.....: 8.3		
Percent Solids	67.7	10.0	%	MCAWW 160.3 MOD	11/26-11/27/07	7330572
		Dilution Factor: 1		MDL.....: 10.0		

NOTE(S):

RL Reporting Limit

Results and reporting limits have been adjusted for dry weight.

1/2/08

Client: GEI Consultants, Inc.

Job Number: 220-3404-1
Sdg Number: 220-3404

Client Sample ID: **EHS-GP-02 (43-45)**

Lab Sample ID: 220-3404-5
Client Matrix: Solid
% Moisture: 6.0
Date Sampled: 11/15/2007 1025
Date Received: 11/16/2007 2100

8260B Volatile Organic Compounds by GC/MS

Method: 8260B
Preparation: 5030B
Dilution: 1.0
Date Analyzed: 11/21/2007 2018
Date Prepared: 11/21/2007 2018
Analysis Batch: 220-11324
Instrument ID: HP 5890/5971A GC/MS
Lab File ID: N6093.D
Initial Weight/Volume: 5 g
Final Weight/Volume: 5 mL

Analyte	DryWt Corrected: Y	Result (ug/Kg)	Qualifier	MDL	RL
Acetone	✓ 21 U	~~6.9~~	~~J~~	2.5	21
Benzene		5.3	U	0.76	5.3
Bromodichloromethane		5.3	U	0.69	5.3
Bromoform		5.3	U	1.8	5.3
Bromomethane		5.3	U	1.6	5.3
Methyl Ethyl Ketone		11	U	3.6	11
Carbon disulfide		5.3	U	0.56	5.3
Carbon tetrachloride		5.3	U	0.76	5.3
Chlorobenzene		5.3	U	0.94	5.3
Chloroethane		5.3	U	1.4	5.3
Chloroform		5.3	U	0.56	5.3
Chloromethane		5.3	U	1.1	5.3
Dibromochloromethane		5.3	U	1.1	5.3
1,1-Dichloroethane		5.3	U	0.69	5.3
1,2-Dichloroethane		5.3	U	1.1	5.3
1,1-Dichloroethene		5.3	U	0.84	5.3
1,2-Dichloropropane		5.3	U	1.0	5.3
cis-1,3-Dichloropropene		5.3	U	0.66	5.3
trans-1,3-Dichloropropene		5.3	U	1.1	5.3
Ethylbenzene		5.3	U	0.76	5.3
2-Hexanone		11	U	2.8	11
Methylene Chloride	✓ 21 U	~~3.1~~	~~J~~	1.5	21
methyl isobutyl ketone		5.3	U	1.0	5.3
Styrene		5.3	U	1.4	5.3
1,1,2,2-Tetrachloroethane		5.3	U	1.1	5.3
Tetrachloroethene		5.3	U	0.79	5.3
Toluene		5.3	U	0.63	5.3
1,1,1-Trichloroethane		5.3	U	0.78	5.3
1,1,2-Trichloroethane		5.3	U	0.93	5.3
Trichloroethene		5.3	U	1.1	5.3
Vinyl chloride		5.3	U	1.4	5.3
Xylenes, Total		5.3	U	2.6	5.3
cis-1,2-Dichloroethene		5.3	U	0.98	5.3
trans-1,2-Dichloroethene		5.3	U	1.0	5.3

Surrogate	%Rec	Acceptance Limits
1,2-Dichloroethane-d4 (Surr)	96	49 - 134
4-Bromofluorobenzene	68	36 - 133
Dibromofluoromethane	91	60 - 130
Toluene-d8 (Surr)	78	51 - 137

EMM 1/17/08 DB 1/18/08

Client: GEI Consultants, Inc.

Job Number: 220-3404-1
Sdg Number: 220-3404

Client Sample ID: EHS-GP-02 (43-45)

Lab Sample ID: 220-3404-5
Client Matrix: Solid
% Moisture: 6.0
Date Sampled: 11/15/2007 1025
Date Received: 11/16/2007 2100

8270C Semivolatile Compounds by Gas Chromatography/Mass Spectrometry (GC/MS)

Method: 8270C
Preparation: 3541
Dilution: 1.0
Date Analyzed: 12/03/2007 1956
Date Prepared: 11/29/2007 1810
Analysis Batch: 220-11555
Prep Batch: 220-11477
Instrument ID: HP 6890/5973 GC/MS
Lab File ID: U2244.D
Initial Weight/Volume: 15.30 g
Final Weight/Volume: 1 mL
Injection Volume: 1 uL

Analyte	DryWt Corrected: Y	Result (ug/Kg)	Qualifier	MDL	RL
Acenaphthene		340	U	60	340
Acenaphthylene		340	U	66	340
Anthracene		340	U	55	340
Benzo[a]anthracene		340	U	50	340
Benzo[a]pyrene		340	U	44	340
Benzo[b]fluoranthene		340	U	59	340
Benzo[g,h,i]perylene		340	U	67	340
Benzo[k]fluoranthene		340	U	56	340
Bis(2-chloroethoxy)methane		340	U	56	340
Bis(2-chloroethyl)ether		340	U	170	340
Bis(2-ethylhexyl) phthalate		340	U	44	340
Butyl benzyl phthalate		340	U	48	340
Carbazole		340	U	59	340
Chrysene		340	U	60	340
Di-n-butyl phthalate		340	U	53	340
Di-n-octyl phthalate		340	U	54	340
4-Bromophenyl phenyl ether		340	U	56	340
4-Chloroaniline		340	U	46	340
2-Chloronaphthalene		340	U	60	340
4-Chlorophenyl phenyl ether		340	U	68	340
Dibenz(a,h)anthracene		340	U	52	340
Dibenzofuran		340	U	60	340
Diethyl phthalate		340	U	85	340
Dimethyl phthalate		340	U	61	340
1,2-Dichlorobenzene		340	U	54	340
1,3-Dichlorobenzene		340	U	55	340
1,4-Dichlorobenzene		340	U	54	340
3,3'-Dichlorobenzidine		690	U	38	690
2,4-Dinitrotoluene		340	U	52	340
2,6-Dinitrotoluene		340	U	140	340
Fluoranthene		340	U	57	340
Fluorene		340	U	59	340
Hexachlorobenzene		340	U	59	340
Hexachlorobutadiene		340	U	66	340
Hexachlorocyclopentadiene		340	U	49	340
Hexachloroethane		340	U	60	340
Indeno[1,2,3-cd]pyrene		340	U	61	340
Isophorone		340	U	71	340
2-Methylnaphthalene		340	U	63	340
Naphthalene		340	U	52	340
2-Nitroaniline		1700	U	46	1700
3-Nitroaniline		1700	U	49	1700
Nitrobenzene		340	U	63	340
N-Nitrosodi-n-propylamine		340	U	77	340

pB 1/18/08 EHM 1/18/08

Client: GEI Consultants, Inc.

Job Number: 220-3404-1
Sdg Number: 220-3404

Client Sample ID: EHS-GP-02 (43-45)

Lab Sample ID: 220-3404-5
Client Matrix: Solid
% Moisture: 6.0
Date Sampled: 11/15/2007 1025
Date Received: 11/16/2007 2100

8270C Semivolatile Compounds by Gas Chromatography/Mass Spectrometry (GC/MS)

Method: 8270C
Preparation: 3541
Dilution: 1.0
Date Analyzed: 12/03/2007 1956
Date Prepared: 11/29/2007 1810
Analysis Batch: 220-11555
Prep Batch: 220-11477
Instrument ID: HP 6890/5973 GC/MS
Lab File ID: U2244.D
Initial Weight/Volume: 15.30 g
Final Weight/Volume: 1 mL
Injection Volume: 1 uL

Analyte	DryWt Corrected: Y	Result (ug/Kg)	Qualifier	MDL	RL
N-Nitrosodiphenylamine		340	U	62	340
Phenanthrene		340	U	57	340
Pyrene		340	U	50	340
1,2,4-Trichlorobenzene		340	U	55	340
4-Chloro-3-methylphenol		340	U	69	340
2-Chlorophenol		340	U	74	340
2-Methylphenol		340	U	54	340
4-Methylphenol		340	U	52	340
2,4-Dichlorophenol		340	U	71	340
2,4-Dimethylphenol		340	U	46	340
2,4-Dinitrophenol		1700	U	230	1700
4,6-Dinitro-2-methylphenol		1700	U	270	1700
2-Nitrophenol		340	U	74	340
4-Nitrophenol		1700	U	160	1700
Pentachlorophenol		1700	U	24	1700
Phenol		340	U	41	340
2,4,5-Trichlorophenol		1700	U	52	1700
2,4,6-Trichlorophenol		340	U	50	340
Benzyl alcohol		340	U	71	340
4-Nitroaniline		690	U	52	690
2,2'-oxybis[1-chloropropane]		340	U	56	340

Surrogate	%Rec	Acceptance Limits
2-Fluorobiphenyl	72	32 - 131
2-Fluorophenol	63	25 - 113
2,4,6-Tribromophenol	78	24 - 150
Nitrobenzene-d5	64	25 - 120
Phenol-d5	65	27 - 122
Terphenyl-d14	88	35 - 140

DB 11/18/08 EHM 11/18/08.

Client: GEI Consultants, Inc.

Job Number: 220-3404-1
Sdg Number: 220-3404

Client Sample ID: EHS-GP-02 (43-45)

Lab Sample ID: 220-3404-5
Client Matrix: Solid

% Moisture: 6.0

Date Sampled: 11/15/2007 1025
Date Received: 11/16/2007 2100

6010B Inductively Coupled Plasma - Atomic Emission Spectrometry

Method: 6010B
Preparation: 3050B
Dilution: 1.0
Date Analyzed: 11/21/2007 1701
Date Prepared: 11/19/2007 1407

Analysis Batch: 220-11308
Prep Batch: 220-11213

Instrument ID: TJA Trace ICAP
Lab File ID: W112107
Initial Weight/Volume: 1.41 g
Final Weight/Volume: 250 mL

Analyte	DryWt Corrected: Y	Result (mg/Kg)	Qualifier	MDL	RL
Silver		2.8	U	0.28	2.8
Aluminum		420		8.7	94.3
Arsenic		7.5	U	1.3	7.5
Barium		3.5	J	0.21	1.9
Beryllium		1.9	U	0.43	1.9
Calcium		~~45.7~~ 189	U	11.7	189
Cadmium		4.7	U	0.87	4.7
Cobalt		1.9	U	0.49	1.9
Chromium		2.4		0.32	2.8
Copper		0.88	J	0.42	4.7
Iron		1240		9.2	56.6
Potassium		~~58.2~~ 189	U	22.6	189
Magnesium		102	J	5.8	33.0
Manganese		12.1		0.62	5.7
Sodium		189	U	17.9	189
Nickel		0.76	J	0.42	4.7
Lead		4.7	U	0.79	4.7
Antimony		9.4	UJ	1.3	9.4
Selenium		9.4	U	1.5	9.4
Thallium		14.1	U	2.1	14.1
Vanadium		1.6	J	0.30	3.8
Zinc		18.9	U	2.1	18.9

7471A Mercury in Solid or Semisolid Waste (Manual Cold Vapor Technique)

Method: 7471A
Preparation: 7471A
Dilution: 1.0
Date Analyzed: 11/26/2007 1438
Date Prepared: 11/23/2007 1041

Analysis Batch: 220-11359
Prep Batch: 220-11309

Instrument ID: Perkin Elmer FIMS
Lab File ID: N/A
Initial Weight/Volume: 0.66 g
Final Weight/Volume: 50 mL

Analyte	DryWt Corrected: Y	Result (mg/Kg)	Qualifier	MDL	RL
Mercury		0.048	U	0.012	0.048

1/4/08

DS 1/15/08

Client: GEI Consultants, Inc.

Job Number: 220-3404-1
Sdg Number: 220-3404

Client Sample ID: EHS-GP-02 (43-45)

Lab Sample ID: 220-3404-5
Client Matrix: Solid

% Moisture: 6.0

Date Sampled: 11/15/2007 1025
Date Received: 11/16/2007 2100

8081A Organochlorine Pesticides by Gas Chromatography

Method: 8081A
Preparation: 3550B
Dilution: 1.0
Date Analyzed: 12/04/2007 1803
Date Prepared: 11/29/2007 1900

Analysis Batch: 220-11588
Prep Batch: 220-11480

Instrument ID: HP 5890 with dual ECD
Lab File ID: D7508021.D
Initial Weight/Volume: 30.38 g
Final Weight/Volume: 10 mL
Injection Volume: 1 uL
Column ID: PRIMARY

Analyte	DryWt Corrected: Y Result (ug/Kg)	Qualifier	MDL	RL
4,4'-DDD	3.5	U	0.40	3.5
4,4'-DDE	3.5	U	0.46	3.5
4,4'-DDT	3.5	U	0.32	3.5
Aldrin	2.1	U	0.37	2.1
alpha-BHC	1.8	U	0.29	1.8
beta-BHC	1.8	U	0.28	1.8
delta-BHC	1.8	U	0.11	1.8
Dieldrin	3.5	U	0.34	3.5
Endosulfan I	1.8	U	0.15	1.8
Endosulfan II	3.5	U	0.18	3.5
Endosulfan sulfate	3.5	U	0.18	3.5
Endrin	5.3	U	0.94	5.3
Endrin aldehyde	3.5	U	0.34	3.5
Endrin ketone	3.5	U	0.15	3.5
gamma-BHC (Lindane)	1.8	U	0.16	1.8
Heptachlor	1.8	U	0.16	1.8
Heptachlor epoxide	~~0.17~~ 1.8U ✓	~~J~~	0.12	1.8
Methoxychlor	18	U	2.2	18
Toxaphene	70	U	1.8	70
alpha-Chlordane	1.8	U	0.12	1.8
gamma-Chlordane	1.8	U	0.096	1.8

Surrogate	%Rec	Acceptance Limits
DCB Decachlorobiphenyl	110	25 - 159
Tetrachloro-m-xylene	89	24 - 154

Method: 8081A
Preparation: 3550B
Dilution: 1.0
Date Analyzed: 12/04/2007 1803
Date Prepared: 11/29/2007 1900

Analysis Batch: 220-11588
Prep Batch: 220-11480

Instrument ID: HP 5890 with dual ECD
Lab File ID: C7508021.D
Initial Weight/Volume: 30.38 g
Final Weight/Volume: 10 mL
Injection Volume: 1 uL
Column ID: SECONDARY

Surrogate	%Rec	Acceptance Limits
DCB Decachlorobiphenyl	105	25 - 159
Tetrachloro-m-xylene	87	24 - 154

Jam 12/30/07

DG 1/15/08

Client: GEI Consultants, Inc.

Job Number: 220-3404-1
Sdg Number: 220-3404

Client Sample ID: EHS-GP-02 (43-45)

Lab Sample ID: 220-3404-5
Client Matrix: Solid

% Moisture: 6.0

Date Sampled: 11/15/2007 1025
Date Received: 11/16/2007 2100

8082 Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Method: 8082
Preparation: 3550B
Dilution: 1.0
Date Analyzed: 12/01/2007 0130
Date Prepared: 11/29/2007 1900

Analysis Batch: 220-11517
Prep Batch: 220-11480

Instrument ID: HP 5890 with dual ECD
Lab File ID: D4664027.d
Initial Weight/Volume: 30.38 g
Final Weight/Volume: 10 mL
Injection Volume: 1 uL
Column ID: PRIMARY

Analyte	DryWt Corrected: Y Result (ug/Kg)	Qualifier	MDL	RL
PCB-1016	18	U	3.0	18
PCB-1221	35	U	1.6	35
PCB-1232	18	U	2.0	18
PCB-1242	18	U	3.1	18
PCB-1248	18	U	2.8	18
PCB-1254	18	U	1.3	18
PCB-1260	18	U	4.2	18

Surrogate	%Rec	Acceptance Limits
Tetrachloro-m-xylene	90	24 - 154
DCB Decachlorobiphenyl	106	25 - 159

DB 1/18/08

Jam 12/20/07

TestAmerica Connecticut

Client Sample ID: EHS-GP-02(43-45)

GC Semivolatiles

Lot-Sample #...:	A7K200307-004	Work Order #...:	KCNFX1AC	Matrix.....:	SO
Date Sampled...:	11/15/07 10:25	Date Received..:	11/20/07		
Prep Date.....:	11/26/07	Analysis Date..:	11/27/07		
Prep Batch #...:	7330016				
Dilution Factor:	1	Initial Wgt/Vol:	50.2 g	Final Wgt/Vol..:	100 mL
% Moisture.....:	19	Method.....:	SW846 8151A		

PARAMETER	RESULT	REPORTING LIMIT	UNITS	MDL
2,4-D	ND	99	ug/kg	44
2,4,5-TP	ND	25	ug/kg	2.7
2,4,5-T	ND	25	ug/kg	3.9

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
2,4-Dichlorophenylacetic acid	71	(19 - 122)

NOTE(S):

Results and reporting limits have been adjusted for dry weight.

TestAmerica Connecticut

Client Sample ID: EHS-GP-02(43-45)

General Chemistry

Lot-Sample #...: A7K200307-004 Work Order #...: KCNFX Matrix.....: SO
Date Sampled...: 11/15/07 10:25 Date Received..: 11/20/07
% Moisture.....: 19

PARAMETER	RESULT	RL	UNITS	METHOD	PREPARATION-ANALYSIS DATE	PREP BATCH #
Acid-soluble sulfide	20.1 B J	37.0	mg/kg	SW846 9030B/9034	11/21/07	7325534
		Dilution Factor: 1		MDL.....: 6.9		
Percent Solids	81.1	10.0	%	MCAWW 160.3 MOD	11/29-11/30/07	7333319
		Dilution Factor: 1		MDL.....: 10.0		

NOTE(S):

RL Reporting Limit

Results and reporting limits have been adjusted for dry weight.

B Estimated result. Result is less than RL.

DB 1/18/08

Jam 1/2/08

Client: GEI Consultants, Inc.

Job Number: 220-3395-1
Sdg Number: 220-3395

Client Sample ID: **EHS-GP-03(4-5)**

Lab Sample ID: 220-3395-4
Client Matrix: Solid
% Moisture: 30.3
Date Sampled: 11/13/2007 1400
Date Received: 11/15/2007 1634

8260B Volatile Organic Compounds by GC/MS

Method: 8260B
Preparation: 5030B
Dilution: 1.0
Date Analyzed: 11/20/2007 2356
Date Prepared: 11/20/2007 2356
Analysis Batch: 220-11269
Instrument ID: HP 5890/5971A GC/MS
Lab File ID: N6059.D
Initial Weight/Volume: 5 g
Final Weight/Volume: 5 mL

Analyte	DryWt Corrected: Y	Result (ug/Kg)	Qualifier	MDL	RL
Acetone	✓ 29 U	~~4.8~~	~~J~~	3.4	29
Benzene		7.2	U	1.0	7.2
Bromodichloromethane		7.2	U	0.93	7.2
Bromoform		7.2	U	2.5	7.2
Bromomethane		7.2	U	2.2	7.2
Methyl Ethyl Ketone		14	U	4.8	14
Carbon disulfide		7.2	U	0.76	7.2
Carbon tetrachloride		7.2	U	1.0	7.2
Chlorobenzene		7.2	U	1.3	7.2
Chloroethane		7.2	U	1.8	7.2
Chloroform		7.2	U	0.76	7.2
Chloromethane		7.2	U	1.4	7.2
Dibromochloromethane		7.2	U	1.5	7.2
1,1-Dichloroethane		7.2	U	0.93	7.2
1,2-Dichloroethane		7.2	U	1.5	7.2
1,1-Dichloroethene		7.2	U	1.1	7.2
1,2-Dichloropropane		7.2	U	1.4	7.2
cis-1,3-Dichloropropene		7.2	U	0.89	7.2
trans-1,3-Dichloropropene		7.2	U	1.5	7.2
Ethylbenzene		7.2	U	1.0	7.2
2-Hexanone		14	U	3.8	14
Methylene Chloride	✓ 29 U	~~3.4~~	~~J~~	2.0	29
methyl isobutyl ketone		7.2	U	1.3	7.2
Styrene		7.2	U	1.9	7.2
1,1,2,2-Tetrachloroethane		7.2	U	1.5	7.2
Tetrachloroethene		7.2	U	1.1	7.2
Toluene		7.2	U ✓ ✓	0.85	7.2
1,1,1-Trichloroethane		7.2	U	1.0	7.2
1,1,2-Trichloroethane		7.2	U	1.2	7.2
Trichloroethene		7.2	U	1.4	7.2
Vinyl chloride		7.2	U	1.9	7.2
Xylenes, Total		7.2	U	3.5	7.2
cis-1,2-Dichloroethene		7.2	U	1.3	7.2
trans-1,2-Dichloroethene		7.2	U	1.4	7.2

Surrogate	%Rec	Acceptance Limits
1,2-Dichloroethane-d4 (Surr)	89	49 - 134
4-Bromofluorobenzene	91	36 - 133
Dibromofluoromethane	91	60 - 130
Toluene-d8 (Surr)	88	51 - 137

DB 1/18/08

EMM 1/9/08

Client: GEI Consultants, Inc.

Job Number: 220-3395-1
Sdg Number: 220-3395

Client Sample ID: EHS-GP-03(4-5)

Lab Sample ID: 220-3395-4
Client Matrix: Solid
% Moisture: 30.3
Date Sampled: 11/13/2007 1400
Date Received: 11/15/2007 1634

8270C Semivolatile Compounds by Gas Chromatography/Mass Spectrometry (GC/MS)

Method: 8270C
Preparation: 3541
Dilution: 1.0
Date Analyzed: 11/27/2007 2141
Date Prepared: 11/27/2007 0953
Analysis Batch: 220-11422
Prep Batch: 220-11378
Instrument ID: HP 6890/5973 GC/MS
Lab File ID: U2139.D
Initial Weight/Volume: 15.24 g
Final Weight/Volume: 1 mL
Injection Volume: 1 uL

Analyte	DryWt Corrected: Y	Result (ug/Kg)	Qualifier	MDL	RL
Acenaphthene		470	U	81	470
Acenaphthylene		470	U	89	470
Anthracene		470	U	75	470
Benzo[a]anthracene		130	J J	68	470
Benzo[a]pyrene		110	J J	60	470
Benzo[b]fluoranthene		170	J J	80	470
Benzo[g,h,i]perylene		470	U	91	470
Benzo[k]fluoranthene		470	U M	76	470
Bis(2-chloroethoxy)methane		470	U	75	470
Bis(2-chloroethyl)ether		470	U	230	470
Bis(2-ethylhexyl) phthalate		470	U	60	470
Butyl benzyl phthalate		470	U	65	470
Carbazole		470	U	79	470
Chrysene		140	J J	82	470
Di-n-butyl phthalate		470	U	72	470
Di-n-octyl phthalate		470	U	74	470
4-Bromophenyl phenyl ether		470	U	75	470
4-Chloroaniline		470	U	62	470
2-Chloronaphthalene		470	U	81	470
4-Chlorophenyl phenyl ether		470	U	92	470
Dibenz(a,h)anthracene		470	U	71	470
Dibenzofuran		470	U	82	470
Diethyl phthalate		470	U	120	470
Dimethyl phthalate		470	U	82	470
1,2-Dichlorobenzene		470	U	74	470
1,3-Dichlorobenzene		470	U	75	470
1,4-Dichlorobenzene		470	U	73	470
3,3'-Dichlorobenzidine		930	U	52	930
2,4-Dinitrotoluene		470	U	71	470
2,6-Dinitrotoluene		470	U	190	470
Fluoranthene		150	J J	77	470
Fluorene		470	U	79	470
Hexachlorobenzene		470	U	80	470
Hexachlorobutadiene		470	U	89	470
Hexachlorocyclopentadiene		470	U	66	470
Hexachloroethane		470	U	81	470
Indeno[1,2,3-cd]pyrene		470	U	83	470
Isophorone		470	U	96	470
2-Methylnaphthalene		470	U	85	470
Naphthalene		470	U	71	470
2-Nitroaniline		2300	U	63	2300
3-Nitroaniline		2300	U	66	2300
Nitrobenzene		470	U	86	470
N-Nitrosodi-n-propylamine		470	U	100	470

DB 11/18/08 EHM 1/10/08

Client: GEI Consultants, Inc.

Job Number: 220-3395-1
Sdg Number: 220-3395

Client Sample ID: EHS-GP-03(4-5)

Lab Sample ID: 220-3395-4
Client Matrix: Solid
% Moisture: 30.3
Date Sampled: 11/13/2007 1400
Date Received: 11/15/2007 1634

8270C Semivolatile Compounds by Gas Chromatography/Mass Spectrometry (GC/MS)

Method: 8270C
Preparation: 3541
Dilution: 1.0
Date Analyzed: 11/27/2007 2141
Date Prepared: 11/27/2007 0953
Analysis Batch: 220-11422
Prep Batch: 220-11378
Instrument ID: HP 6890/5973 GC/MS
Lab File ID: U2139.D
Initial Weight/Volume: 15.24 g
Final Weight/Volume: 1 mL
Injection Volume: 1 uL

Analyte	DryWt Corrected: Y	Result (ug/Kg)	Qualifier	MDL	RL
N-Nitrosodiphenylamine		470	U	84	470
Phenanthrene		470	U	77	470
Pyrene		160	J	68	470
1,2,4-Trichlorobenzene		470	U	74	470
4-Chloro-3-methylphenol		470	U	93	470
2-Chlorophenol		470	U	100	470
2-Methylphenol		470	U	74	470
4-Methylphenol		470	U	70	470
2,4-Dichlorophenol		470	U	97	470
2,4-Dimethylphenol		470	U	62	470
2,4-Dinitrophenol		2300	U	310	2300
4,6-Dinitro-2-methylphenol		2300	U	360	2300
2-Nitrophenol		470	U	100	470
4-Nitrophenol		2300	U	210	2300
Pentachlorophenol		2300	U	33	2300
Phenol		470	U	56	470
2,4,5-Trichlorophenol		2300	U	71	2300
2,4,6-Trichlorophenol		470	U	68	470
Benzyl alcohol		470	U	97	470
4-Nitroaniline		930	U	70	930
2,2'-oxybis[1-chloropropane]		470	U	75	470

Surrogate	%Rec	Acceptance Limits
2-Fluorobiphenyl	66	32 - 131
2-Fluorophenol	68	25 - 113
2,4,6-Tribromophenol	87	24 - 150
Nitrobenzene-d5	60	25 - 120
Phenol-d5	72	27 - 122
Terphenyl-d14	98	35 - 140

Client: GEI Consultants, Inc.

Job Number: 220-3395-1
Sdg Number: 220-3395

Client Sample ID: EHS-GP-03(4-5)

Lab Sample ID: 220-3395-4
Client Matrix: Solid

% Moisture: 30.3

Date Sampled: 11/13/2007 1400
Date Received: 11/15/2007 1634

6010B Inductively Coupled Plasma - Atomic Emission Spectrometry

Method: 6010B
Preparation: 3050B
Dilution: 1.0
Date Analyzed: 11/21/2007 1537
Date Prepared: 11/19/2007 1407

Analysis Batch: 220-11308
Prep Batch: 220-11213

Instrument ID: TJA Trace ICAP
Lab File ID: W112107
Initial Weight/Volume: 1.41 g
Final Weight/Volume: 250 mL

Analyte	DryWt Corrected: Y	Result (mg/Kg)	Qualifier	MDL	RL
Silver		3.8	U	0.38	3.8
Aluminum		11000		11.7	127
Arsenic		3.2	J ✓	1.7	10.2
Barium		20.8 J ✓		0.28	2.5
Beryllium		2.5	U	0.59	2.5
Calcium		456 J ✓		15.8	254
Cadmium		6.4	U	1.2	6.4
Cobalt		5.0 J ✓		0.66	2.5
Chromium		14.4		0.43	3.8
Copper		9.6		0.56	6.4
Iron		12000		12.5	76.3
Potassium		395 J ✓		30.5	254
Magnesium		2220 J ✓		7.9	44.5
Manganese		96.7		0.84	7.6
Sodium		51.1	J ✓	24.2	254
Nickel		9.3 J ✓		0.56	6.4
Lead		11.3		1.1	6.4
Antimony		12.7	U J	1.8	12.7
Selenium		12.7	U	2.1	12.7
Thallium		19.1	U	2.8	19.1
Vanadium		21.4		0.41	5.1
Zinc		40.9		2.8	25.4

7471A Mercury in Solid or Semisolid Waste (Manual Cold Vapor Technique)

Method: 7471A
Preparation: 7471A
Dilution: 1.0
Date Analyzed: 11/21/2007 0949
Date Prepared: 11/20/2007 1555

Analysis Batch: 220-11278
Prep Batch: 220-11264

Instrument ID: Perkin Elmer FIMS
Lab File ID: N/A
Initial Weight/Volume: 0.62 g
Final Weight/Volume: 50 mL

Analyte	DryWt Corrected: Y	Result (mg/Kg)	Qualifier	MDL	RL
Mercury		0.031	J ✓	0.018	0.069

1/2/08

DS 1/18/08

Client: GEI Consultants, Inc.

Job Number: 220-3395-1
Sdg Number: 220-3395

Client Sample ID: EHS-GP-03(4-5)

Lab Sample ID: 220-3395-4
Client Matrix: Solid

% Moisture: 30.3

Date Sampled: 11/13/2007 1400
Date Received: 11/15/2007 1634

8081A Organochlorine Pesticides by Gas Chromatography

Method: 8081A
Preparation: 3550B
Dilution: 1.0
Date Analyzed: 12/03/2007 1734
Date Prepared: 11/27/2007 1227

Analysis Batch: 220-11521
Prep Batch: 220-11392

Instrument ID: HP 5890 with dual ECD
Lab File ID: D7507052.D
Initial Weight/Volume: 30.44 g
Final Weight/Volume: 10.0 mL
Injection Volume: 1 uL
Column ID: PRIMARY

DryWt Corrected: Y

Analyte	Result (ug/Kg)	Qualifier	MDL	RL
4,4'-DDD	~~0.96~~ 4.7UJ	~~J M~~	0.54	4.7
4,4'-DDE	1.9 J	~~J M~~	0.61	4.7
4,4'-DDT	4.1 J	~~J M~~	0.44	4.7
Aldrin	2.8	U	0.50	2.8
alpha-BHC	2.4	U	0.39	2.4
beta-BHC	2.4	U	0.38	2.4
delta-BHC	2.4	U	0.15	2.4
Dieldrin	4.7	U	0.45	4.7
Endosulfan I	2.4	U	0.21	2.4
Endosulfan II	4.7	U	0.24	4.7
Endosulfan sulfate	4.7	U	0.24	4.7
Endrin	7.1	U	1.3	7.1
Endrin aldehyde	1.5 J	~~J M~~	0.46	4.7
Endrin ketone	~~0.50~~ 4.7U	~~J M~~	0.20	4.7
gamma-BHC (Lindane)	2.4	U	0.21	2.4
Heptachlor	2.4	U	0.21	2.4
Heptachlor epoxide	2.4	U	0.16	2.4
Methoxychlor	24	U	3.0	24
Toxaphene	95	U	2.5	95
alpha-Chlordane	2.4	U	0.16	2.4
gamma-Chlordane	2.4	U	0.13	2.4

Surrogate	%Rec	Acceptance Limits
DCB Decachlorobiphenyl	121	25 - 159
Tetrachloro-m-xylene	91	24 - 154

Method: 8081A
Preparation: 3550B
Dilution: 1.0
Date Analyzed: 12/03/2007 1734
Date Prepared: 11/27/2007 1227

Analysis Batch: 220-11521
Prep Batch: 220-11392

Instrument ID: HP 5890 with dual ECD
Lab File ID: C7507052.D
Initial Weight/Volume: 30.44 g
Final Weight/Volume: 10.0 mL
Injection Volume: 1 uL
Column ID: SECONDARY

Surrogate	%Rec	Acceptance Limits
DCB Decachlorobiphenyl	114	25 - 159
Tetrachloro-m-xylene	88	24 - 154

4/11/08

4/18/08

4/11/08

Client: GEI Consultants, Inc.

Job Number: 220-3395-1
Sdg Number: 220-3395

Client Sample ID: EHS-GP-03(4-5)

Lab Sample ID: 220-3395-4
Client Matrix: Solid

% Moisture: 30.3

Date Sampled: 11/13/2007 1400
Date Received: 11/15/2007 1634

8082 Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Method: 8082
Preparation: 3550B
Dilution: 1.0
Date Analyzed: 11/29/2007 2315
Date Prepared: 11/27/2007 1227

Analysis Batch: 220-11497
Prep Batch: 220-11392

Instrument ID: HP 5890 with dual ECD
Lab File ID: D4663122.d
Initial Weight/Volume: 30.44 g
Final Weight/Volume: 10.0 mL
Injection Volume: 1 uL
Column ID: PRIMARY

Analyte	DryWt Corrected: Y Result (ug/Kg)	Qualifier	MDL	RL
PCB-1016	24	U	4.0	24
PCB-1221	47	U	2.2	47
PCB-1232	24	U	2.6	24
PCB-1242	24	U	4.2	24
PCB-1248	24	U	3.8	24
PCB-1254	24	U	1.7	24
PCB-1260	24	U	5.6	24

Surrogate	%Rec	Acceptance Limits
Tetrachloro-m-xylene	69	24 - 154
DCB Decachlorobiphenyl	106	25 - 159

DS 1/18/08

12/31/07

TestAmerica Connecticut

Client Sample ID: EHS-GP-03(4-5)

GC Semivolatiles

Lot-Sample #...:	A7K170204-004	Work Order #...:	KCH5M1AC	Matrix.....:	SO
Date Sampled...:	11/13/07 14:00	Date Received..:	11/17/07		
Prep Date.....:	11/26/07	Analysis Date..:	11/27/07		
Prep Batch #...:	7330014				
Dilution Factor:	1	Initial Wgt/Vol:	50.03 g	Final Wgt/Vol..:	100 mL
% Moisture.....:	28	Method.....:	SW846 8151A		

PARAMETER	RESULT	REPORTING LIMIT	UNITS	MDL
2,4-D	ND	110	ug/kg	50
2,4,5-TP	ND	28	ug/kg	3.0
2,4,5-T	ND	28	ug/kg	4.4

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
2,4-Dichlorophenylacetic acid	69	(19 - 122)

NOTE(S):

Results and reporting limits have been adjusted for dry weight.

DR 1/18/08

EHM 1/17/08

TestAmerica Connecticut

Client Sample ID: EHS-GP-03(4-5)

General Chemistry

Lot-Sample #...: A7K170204-004 Work Order #...: KCH5M Matrix.....: SO
Date Sampled...: 11/13/07 14:00 Date Received..: 11/17/07
% Moisture.....: 28

PARAMETER	RESULT	RL	UNITS	METHOD	PREPARATION-ANALYSIS DATE	PREP BATCH #
Acid-soluble sulfide	23.4 B J	41.6	mg/kg	SW846 9030B/9034	11/19/07	7323421
		Dilution Factor: 1		MDL.....: 7.8		
Percent Solids	72.2	10.0	%	MCAWW 160.3 MOD	11/26-11/27/07	7330568
		Dilution Factor: 1		MDL.....: 10.0		

NOTE(S):

RL Reporting Limit

Results and reporting limits have been adjusted for dry weight.

B Estimated result. Result is less than RL.

1/21/08

Client: GEI Consultants, Inc.

Job Number: 220-3395-1
Sdg Number: 220-3395

Client Sample ID: **EHS-GP-03(44-45)**

Lab Sample ID: 220-3395-14
Client Matrix: Solid
% Moisture: 3.1
Date Sampled: 11/14/2007 1324
Date Received: 11/15/2007 1634

8260B Volatile Organic Compounds by GC/MS

Method: 8260B
Preparation: 5030B
Dilution: 1.0
Date Analyzed: 11/21/2007 0344
Date Prepared: 11/21/2007 0344
Analysis Batch: 220-11269
Instrument ID: HP 5890/5971A GC/MS
Lab File ID: N6068.D
Initial Weight/Volume: 5 g
Final Weight/Volume: 5 mL

Analyte	DryWt Corrected: Y	Result (ug/Kg)	Qualifier	MDL	RL
Acetone	✓21U	~~4.8~~	~~J 5~~	2.4	21
Benzene		5.2	U	0.73	5.2
Bromodichloromethane		5.2	U	0.67	5.2
Bromoform		5.2	U	1.8	5.2
Bromomethane		5.2	U	1.6	5.2
Methyl Ethyl Ketone		10	U	3.5	10
Carbon disulfide		5.2	U	0.55	5.2
Carbon tetrachloride		5.2	U	0.73	5.2
Chlorobenzene		5.2	U	0.91	5.2
Chloroethane		5.2	U	1.3	5.2
Chloroform		5.2	U	0.55	5.2
Chloromethane		5.2	U	1.0	5.2
Dibromochloromethane		5.2	U	1.1	5.2
1,1-Dichloroethane		5.2	U	0.67	5.2
1,2-Dichloroethane		5.2	U	1.1	5.2
1,1-Dichloroethene		5.2	U	0.82	5.2
1,2-Dichloropropane		5.2	U	1.0	5.2
cis-1,3-Dichloropropene		5.2	U	0.64	5.2
trans-1,3-Dichloropropene		5.2	U	1.1	5.2
Ethylbenzene		5.2	U	0.73	5.2
2-Hexanone		10	U	2.7	10
Methylene Chloride	✓21U	~~2.7~~	~~J~~	1.4	21
methyl isobutyl ketone		5.2	U	0.97	5.2
Styrene		5.2	U	1.3	5.2
1,1,2,2-Tetrachloroethane		5.2	U	1.1	5.2
Tetrachloroethene		5.2	U	0.76	5.2
Toluene		5.2	U ✓ ✓	0.61	5.2
1,1,1-Trichloroethane		5.2	U	0.75	5.2
1,1,2-Trichloroethane		5.2	U	0.90	5.2
Trichloroethene		5.2	U	1.0	5.2
Vinyl chloride		5.2	U	1.3	5.2
Xylenes, Total		5.2	U	2.5	5.2
cis-1,2-Dichloroethene		5.2	U	0.95	5.2
trans-1,2-Dichloroethene		5.2	U	0.99	5.2

Surrogate	%Rec	Acceptance Limits
1,2-Dichloroethane-d4 (Surr)	99	49 - 134
4-Bromofluorobenzene	96	36 - 133
Dibromofluoromethane	96	60 - 130
Toluene-d8 (Surr)	89	51 - 137

DB 1/18/08 EHM 1/9/08

Client: GEI Consultants, Inc.

Job Number: 220-3395-1
Sdg Number: 220-3395

Client Sample ID: **EHS-GP-03(44-45)**

Lab Sample ID: 220-3395-14
Client Matrix: Solid
% Moisture: 3.1
Date Sampled: 11/14/2007 1324
Date Received: 11/15/2007 1634

8270C Semivolatile Compounds by Gas Chromatography/Mass Spectrometry (GC/MS)

Method: 8270C
Preparation: 3541
Dilution: 1.0
Date Analyzed: 11/30/2007 2218
Date Prepared: 11/28/2007 2045
Analysis Batch: 220-11515
Prep Batch: 220-11441
Instrument ID: HP 6890/5973 GC/MS
Lab File ID: U2218.D
Initial Weight/Volume: 15.36 g
Final Weight/Volume: 1.0 mL
Injection Volume: 1 uL

Analyte	DryWt Corrected: Y	Result (ug/Kg)	Qualifier	MDL	RL
Acenaphthene		330	U	58	330
Acenaphthylene		330	U	63	330
Anthracene		330	U	54	330
Benzo[a]anthracene		330	U	48	330
Benzo[a]pyrene		330	U	43	330
Benzo[b]fluoranthene		330	U	57	330
Benzo[g,h,i]perylene		330	U	65	330
Benzo[k]fluoranthene		330	U	55	330
Bis(2-chloroethoxy)methane		330	U	54	330
Bis(2-chloroethyl)ether		330	U	160	330
Bis(2-ethylhexyl) phthalate		330	U	43	330
Butyl benzyl phthalate		330	U	47	330
Carbazole		330	U	57	330
Chrysene		330	U	58	330
Di-n-butyl phthalate		330	U	51	330
Di-n-octyl phthalate		330	U	53	330
4-Bromophenyl phenyl ether		330	U	54	330
4-Chloroaniline		330	U	44	330
2-Chloronaphthalene		330	U	58	330
4-Chlorophenyl phenyl ether		330	U	65	330
Dibenz(a,h)anthracene		330	U	50	330
Dibenzofuran		330	U	58	330
Diethyl phthalate		330	U	82	330
Dimethyl phthalate		330	U	59	330
1,2-Dichlorobenzene		330	U	53	330
1,3-Dichlorobenzene		330	U	54	330
1,4-Dichlorobenzene		330	U	52	330
3,3'-Dichlorobenzidine		670	U	37	670
2,4-Dinitrotoluene		330	U	51	330
2,6-Dinitrotoluene		330	U	130	330
Fluoranthene		330	U	55	330
Fluorene		330	U	57	330
Hexachlorobenzene		330	U	57	330
Hexachlorobutadiene		330	U	63	330
Hexachlorocyclopentadiene		330	U	47	330
Hexachloroethane		330	U	58	330
Indeno[1,2,3-cd]pyrene		330	U	59	330
Isophorone		330	U	68	330
2-Methylnaphthalene		330	U	61	330
Naphthalene		330	U	51	330
2-Nitroaniline		1600	U	45	1600
3-Nitroaniline		1600	U	47	1600
Nitrobenzene		330	U	61	330
N-Nitrosodi-n-propylamine		330	U	74	330

EHM 1/10/08

DB 1/18/08

Client: GEI Consultants, Inc.

Job Number: 220-3395-1
Sdg Number: 220-3395

Client Sample ID: **EHS-GP-03(44-45)**

Lab Sample ID: 220-3395-14
Client Matrix: Solid
% Moisture: 3.1
Date Sampled: 11/14/2007 1324
Date Received: 11/15/2007 1634

8270C Semivolatile Compounds by Gas Chromatography/Mass Spectrometry (GC/MS)

Method: 8270C
Preparation: 3541
Dilution: 1.0
Date Analyzed: 11/30/2007 2218
Date Prepared: 11/28/2007 2045
Analysis Batch: 220-11515
Prep Batch: 220-11441
Instrument ID: HP 6890/5973 GC/MS
Lab File ID: U2218.D
Initial Weight/Volume: 15.36 g
Final Weight/Volume: 1.0 mL
Injection Volume: 1 uL

Analyte	DryWt Corrected: Y	Result (ug/Kg)	Qualifier	MDL	RL
N-Nitrosodiphenylamine		330	U	60	330
Phenanthrene		330	U	55	330
Pyrene		330	U	49	330
1,2,4-Trichlorobenzene		330	U	53	330
4-Chloro-3-methylphenol		330	U	66	330
2-Chlorophenol		330	U	72	330
2-Methylphenol		330	U	53	330
4-Methylphenol		330	U	50	330
2,4-Dichlorophenol		330	U	69	330
2,4-Dimethylphenol		330	U	45	330
2,4-Dinitrophenol		1600	U	220	1600
4,6-Dinitro-2-methylphenol		1600	U	260	1600
2-Nitrophenol		330	U	71	330
4-Nitrophenol		1600	U	150	1600
Pentachlorophenol		1600	U	23	1600
Phenol		330	U	40	330
2,4,5-Trichlorophenol		1600	U	50	1600
2,4,6-Trichlorophenol		330	U	49	330
Benzyl alcohol		330	U	69	330
4-Nitroaniline		670	U	50	670
2,2'-oxybis[1-chloropropane]		330	U	54	330

Surrogate	%Rec	Acceptance Limits
2-Fluorobiphenyl	99	32 - 131
2-Fluorophenol	93	25 - 113
2,4,6-Tribromophenol	98	24 - 150
Nitrobenzene-d5	92	25 - 120
Phenol-d5	94	27 - 122
Terphenyl-d14	111	35 - 140

DS 1/18/08

EMM 1/10/08

Client: GEI Consultants, Inc.

Job Number: 220-3395-1
Sdg Number: 220-3395

Client Sample ID: EHS-GP-03(44-45)

Lab Sample ID: 220-3395-14
Client Matrix: Solid

% Moisture: 3.1

Date Sampled: 11/14/2007 1324
Date Received: 11/15/2007 1634

6010B Inductively Coupled Plasma - Atomic Emission Spectrometry

Method: 6010B
Preparation: 3050B
Dilution: 1.0
Date Analyzed: 11/21/2007 1633
Date Prepared: 11/19/2007 1407

Analysis Batch: 220-11308
Prep Batch: 220-11213

Instrument ID: TJA Trace ICAP
Lab File ID: W112107
Initial Weight/Volume: 1.51 g
Final Weight/Volume: 250 mL

Analyte	DryWt Corrected: Y	Result (mg/Kg)	Qualifier	MDL	RL
Silver		2.6	U	0.26	2.6
Aluminum		466		7.9	85.4
Arsenic		6.8	U	1.2	6.8
Barium		4.0	J ✓	0.19	1.7
Beryllium		1.7	U	0.39	1.7
Calcium		280	J ✓	10.6	171
Cadmium		4.3	U	0.79	4.3
Cobalt		1.7	U	0.44	1.7
Chromium		1.2	J ✓	0.29	2.6
Copper		0.81	J ✓	0.38	4.3
Iron		1110		8.4	51.3
Potassium		~~64.3~~ 171 U ✓	~~J~~	20.5	171
Magnesium		126	J ✓	5.3	29.9
Manganese		17.0		0.56	5.1
Sodium		171	U	16.2	171
Nickel		0.54	J ✓	0.38	4.3
Lead		0.76	J ✓	0.72	4.3
Antimony		8.5	U J ✓	1.2	8.5
Selenium		8.5	U	1.4	8.5
Thallium		12.8	U	1.9	12.8
Vanadium		1.6	J ✓	0.27	3.4
Zinc		17.1	U	1.9	17.1

7471A Mercury in Solid or Semisolid Waste (Manual Cold Vapor Technique)

Method: 7471A
Preparation: 7471A
Dilution: 1.0
Date Analyzed: 11/26/2007 1433
Date Prepared: 11/23/2007 1041

Analysis Batch: 220-11359
Prep Batch: 220-11309

Instrument ID: Perkin Elmer FIMS
Lab File ID: N/A
Initial Weight/Volume: 0.66 g
Final Weight/Volume: 50 mL

Analyte	DryWt Corrected: Y	Result (mg/Kg)	Qualifier	MDL	RL
Mercury		0.047	U	0.012	0.047

jm 1/2/08

DB 1/16/08

Client: GEI Consultants, Inc.

Job Number: 220-3395-1
Sdg Number: 220-3395

Client Sample ID: **EHS-GP-03(44-45)**

Lab Sample ID: 220-3395-14
Client Matrix: Solid
% Moisture: 3.1

Date Sampled: 11/14/2007 1324
Date Received: 11/15/2007 1634

8081A Organochlorine Pesticides by Gas Chromatography

Method: 8081A
Preparation: 3550B
Dilution: 1.0
Date Analyzed: 12/03/2007 2150
Date Prepared: 11/27/2007 1227

Analysis Batch: 220-11521
Prep Batch: 220-11392

Instrument ID: HP 5890 with dual ECD
Lab File ID: D7507064.D
Initial Weight/Volume: 30.04 g
Final Weight/Volume: 10.0 mL
Injection Volume: 1 uL
Column ID: PRIMARY

Analyte	DryWt Corrected: Y Result (ug/Kg)	Qualifier	MDL	RL
4,4'-DDD	3.4	UJ ✓	0.39	3.4
4,4'-DDE	3.4	U	0.45	3.4
4,4'-DDT	3.4	UJ ✓	0.32	3.4
Aldrin	2.1	U	0.37	2.1
alpha-BHC	1.8	U	0.28	1.8
beta-BHC	1.8	U	0.28	1.8
delta-BHC	1.8	U	0.11	1.8
Dieldrin	3.4	U	0.33	3.4
Endosulfan I	1.8	U	0.15	1.8
Endosulfan II	3.4	U	0.18	3.4
Endosulfan sulfate	3.4	U	0.18	3.4
Endrin	5.2	U	0.92	5.2
Endrin aldehyde	3.4	U	0.33	3.4
Endrin ketone	3.4	U	0.15	3.4
gamma-BHC (Lindane)	1.8	U	0.16	1.8
Heptachlor	1.8	U	0.15	1.8
Heptachlor epoxide	~~1.8~~ 0.52 J ✓	~~U~~	0.12	1.8
Methoxychlor	18	U	2.2	18
Toxaphene	69	U	1.8	69
alpha-Chlordane	1.8	U	0.11	1.8
gamma-Chlordane	1.8	U	0.094	1.8

Surrogate	%Rec	Acceptance Limits
DCB Decachlorobiphenyl	108	25 - 159
Tetrachloro-m-xylene	98	24 - 154

Method: 8081A
Preparation: 3550B
Dilution: 1.0
Date Analyzed: 12/03/2007 2150
Date Prepared: 11/27/2007 1227

Analysis Batch: 220-11521
Prep Batch: 220-11392

Instrument ID: HP 5890 with dual ECD
Lab File ID: C7507064.D
Initial Weight/Volume: 30.04 g
Final Weight/Volume: 10.0 mL
Injection Volume: 1 uL
Column ID: SECONDARY

Surrogate	%Rec	Acceptance Limits
DCB Decachlorobiphenyl	105	25 - 159
Tetrachloro-m-xylene	97	24 - 154

DS 1/18/08

1/11/08

Client: GEI Consultants, Inc.

Job Number: 220-3395-1
Sdg Number: 220-3395

Client Sample ID: EHS-GP-03(44-45)

Lab Sample ID: 220-3395-14
Client Matrix: Solid

% Moisture: 3.1

Date Sampled: 11/14/2007 1324
Date Received: 11/15/2007 1634

8082 Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Method: 8082
Preparation: 3550B
Dilution: 1.0
Date Analyzed: 11/30/2007 0235
Date Prepared: 11/27/2007 1227

Analysis Batch: 220-11497
Prep Batch: 220-11392

Instrument ID: HP 5890 with dual ECD
Lab File ID: D4663134.d
Initial Weight/Volume: 30.04 g
Final Weight/Volume: 10.0 mL
Injection Volume: 1 uL
Column ID: PRIMARY

Analyte	DryWt Corrected: Y Result (ug/Kg)	Qualifier	MDL	RL
PCB-1016	18	U	2.9	18
PCB-1221	34	U	1.6	34
PCB-1232	18	U	1.9	18
PCB-1242	18	U	3.1	18
PCB-1248	18	U	2.8	18
PCB-1254	18	U	1.2	18
PCB-1260	18	U	4.1	18

Surrogate	%Rec	Acceptance Limits
Tetrachloro-m-xylene	72	24 - 154
DCB Decachlorobiphenyl	80	25 - 159

DG 1/18/08

12/31/07

TestAmerica Connecticut

Client Sample ID: EHS-GP-03(44-45)

GC Semivolatiles

Lot-Sample #...:	A7K170204-014	**Work Order #...:**	KCH511AC	**Matrix.....:**	SO
Date Sampled...:	11/14/07 13:35	**Date Received..:**	11/17/07		
Prep Date.....:	11/26/07	**Analysis Date..:**	11/27/07		
Prep Batch #...:	7330014				
Dilution Factor:	1	**Initial Wgt/Vol:**	50.05 g	**Final Wgt/Vol..:**	100 mL
% Moisture.....:	4.8	**Method.....:**	SW846 8151A		

PARAMETER	RESULT	REPORTING LIMIT	UNITS	MDL
2,4-D	ND	84	ug/kg	38
2,4,5-TP	ND	21	ug/kg	2.3
2,4,5-T	ND	21	ug/kg	3.4

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
2,4-Dichlorophenylacetic acid	97	(19 - 122)

NOTE(S):

Results and reporting limits have been adjusted for dry weight.

DB 1/18/08

EM 1/10/08

TestAmerica Connecticut

Client Sample ID: EHS-GP-03(44-45)

General Chemistry

Lot-Sample #...: A7K170204-014 Work Order #...: KCH51 Matrix.....: SO
Date Sampled...: 11/14/07 13:35 Date Received..: 11/17/07
% Moisture.....: 4.8

PARAMETER	RESULT	RL	UNITS	METHOD	PREPARATION-ANALYSIS DATE	PREP BATCH #
Acid-soluble sulfide	ND UJ ✓	31.5	mg/kg	SW846 9030B/9034	11/21/07	7325534
		Dilution Factor: 1		MDL.....: 5.9		
Percent Solids	95.2	10.0	%	MCAWW 160.3 MOD	11/26-11/27/07	7330572
		Dilution Factor: 1		MDL.....: 10.0		

NOTE(S):

RL Reporting Limit

Results and reporting limits have been adjusted for dry weight.

Jan 1/2/08

Client: GEI Consultants, Inc.

Job Number: 220-3395-1
Sdg Number: 220-3395

Client Sample ID: **EHS-GP-04(4-5)**

Lab Sample ID: 220-3395-5
Client Matrix: Solid
% Moisture: 31.9
Date Sampled: 11/13/2007 1450
Date Received: 11/15/2007 1634

8260B Volatile Organic Compounds by GC/MS

Method: 8260B
Preparation: 5030B
Dilution: 1.0
Date Analyzed: 11/21/2007 0022
Date Prepared: 11/21/2007 0022
Analysis Batch: 220-11269
Instrument ID: HP 5890/5971A GC/MS
Lab File ID: N6060.D
Initial Weight/Volume: 5 g
Final Weight/Volume: 5 mL

Analyte	DryWt Corrected: Y	Result (ug/Kg)	Qualifier	MDL	RL
Acetone	✓ 29 U	~~7.8~~	~~J~~	3.4	29
Benzene		7.3	U	1.0	7.3
Bromodichloromethane		7.3	U	0.95	7.3
Bromoform		7.3	U	2.5	7.3
Bromomethane		7.3	U	2.2	7.3
Methyl Ethyl Ketone		15	U	4.9	15
Carbon disulfide		7.3	U	0.78	7.3
Carbon tetrachloride		7.3	U	1.0	7.3
Chlorobenzene		7.3	U	1.3	7.3
Chloroethane		7.3	U	1.9	7.3
Chloroform		7.3	U	0.78	7.3
Chloromethane		7.3	U	1.5	7.3
Dibromochloromethane		7.3	U	1.6	7.3
1,1-Dichloroethane		7.3	U	0.95	7.3
1,2-Dichloroethane		7.3	U	1.6	7.3
1,1-Dichloroethene		7.3	U	1.2	7.3
1,2-Dichloropropane		7.3	U	1.4	7.3
cis-1,3-Dichloropropene		7.3	U	0.91	7.3
trans-1,3-Dichloropropene		7.3	U	1.6	7.3
Ethylbenzene		7.3	U	1.0	7.3
2-Hexanone		15	U	3.9	15
Methylene Chloride	✓ 29 U	~~3.6~~	~~J~~	2.1	29
methyl isobutyl ketone		7.3	U	1.4	7.3
Styrene		7.3	U	1.9	7.3
1,1,2,2-Tetrachloroethane		7.3	U	1.5	7.3
Tetrachloroethene		7.3	U	1.1	7.3
Toluene		7.3	U ✓ ✓	0.87	7.3
1,1,1-Trichloroethane		7.3	U	1.1	7.3
1,1,2-Trichloroethane		7.3	U	1.3	7.3
Trichloroethene		7.3	U	1.5	7.3
Vinyl chloride		7.3	U	1.9	7.3
Xylenes, Total		7.3	U	3.6	7.3
cis-1,2-Dichloroethene		7.3	U	1.4	7.3
trans-1,2-Dichloroethene		7.3	U	1.4	7.3

Surrogate	%Rec	Acceptance Limits
1,2-Dichloroethane-d4 (Surr)	96	49 - 134
4-Bromofluorobenzene	88	36 - 133
Dibromofluoromethane	92	60 - 130
Toluene-d8 (Surr)	94	51 - 137

DB 11/8/08 EMH 11/9/08

Client: GEI Consultants, Inc.

Job Number: 220-3395-1
Sdg Number: 220-3395

Client Sample ID: **EHS-GP-04(4-5)**

Lab Sample ID: 220-3395-5
Client Matrix: Solid
% Moisture: 31.9
Date Sampled: 11/13/2007 1450
Date Received: 11/15/2007 1634

8270C Semivolatile Compounds by Gas Chromatography/Mass Spectrometry (GC/MS)

Method: 8270C
Preparation: 3541
Dilution: 1.0
Date Analyzed: 11/27/2007 2207
Date Prepared: 11/27/2007 0953
Analysis Batch: 220-11422
Prep Batch: 220-11378
Instrument ID: HP 6890/5973 GC/MS
Lab File ID: U2140.D
Initial Weight/Volume: 15.08 g
Final Weight/Volume: 1 mL
Injection Volume: 1 uL

Analyte	DryWt Corrected: Y	Result (ug/Kg)	Qualifier	MDL	RL
Acenaphthene		480	U	84	480
Acenaphthylene		480	U	92	480
Anthracene		480	U	78	480
Benzo[a]anthracene		480	U	70	480
Benzo[a]pyrene		480	U	62	480
Benzo[b]fluoranthene		480	U	82	480
Benzo[g,h,i]perylene		480	U	94	480
Benzo[k]fluoranthene		480	U	79	480
Bis(2-chloroethoxy)methane		480	U	78	480
Bis(2-chloroethyl)ether		480	U	240	480
Bis(2-ethylhexyl) phthalate		63	J JV	62	480
Butyl benzyl phthalate		480	U	68	480
Carbazole		480	U	82	480
Chrysene		480	U	85	480
Di-n-butyl phthalate		480	U	74	480
Di-n-octyl phthalate		480	U	76	480
4-Bromophenyl phenyl ether		480	U	78	480
4-Chloroaniline		480	U	64	480
2-Chloronaphthalene		480	U	84	480
4-Chlorophenyl phenyl ether		480	U	95	480
Dibenz(a,h)anthracene		480	U	73	480
Dibenzofuran		480	U	84	480
Diethyl phthalate		480	U	120	480
Dimethyl phthalate		480	U	85	480
1,2-Dichlorobenzene		480	U	76	480
1,3-Dichlorobenzene		480	U	78	480
1,4-Dichlorobenzene		480	U	75	480
3,3'-Dichlorobenzidine		960	U	54	960
2,4-Dinitrotoluene		480	U	73	480
2,6-Dinitrotoluene		480	U	190	480
Fluoranthene		480	U	80	480
Fluorene		480	U	82	480
Hexachlorobenzene		480	U	83	480
Hexachlorobutadiene		480	U	92	480
Hexachlorocyclopentadiene		480	U	68	480
Hexachloroethane		480	U	83	480
Indeno[1,2,3-cd]pyrene		480	U	85	480
Isophorone		480	U	99	480
2-Methylnaphthalene		480	U	88	480
Naphthalene		480	U	73	480
2-Nitroaniline		2300	U	65	2300
3-Nitroaniline		2300	U	69	2300
Nitrobenzene		480	U	89	480
N-Nitrosodi-n-propylamine		480	U	110	480

DB 1/08/08 EHM 1/10/08

Client: GEI Consultants, Inc.

Job Number: 220-3395-1
Sdg Number: 220-3395

Client Sample ID: **EHS-GP-04(4-5)**

Lab Sample ID: 220-3395-5
Client Matrix: Solid
% Moisture: 31.9
Date Sampled: 11/13/2007 1450
Date Received: 11/15/2007 1634

8270C Semivolatile Compounds by Gas Chromatography/Mass Spectrometry (GC/MS)

Method: 8270C
Preparation: 3541
Dilution: 1.0
Date Analyzed: 11/27/2007 2207
Date Prepared: 11/27/2007 0953
Analysis Batch: 220-11422
Prep Batch: 220-11378
Instrument ID: HP 6890/5973 GC/MS
Lab File ID: U2140.D
Initial Weight/Volume: 15.08 g
Final Weight/Volume: 1 mL
Injection Volume: 1 uL

Analyte	DryWt Corrected: Y	Result (ug/Kg)	Qualifier	MDL	RL
N-Nitrosodiphenylamine		480	U	87	480
Phenanthrene		480	U	79	480
Pyrene		480	U	71	480
1,2,4-Trichlorobenzene		480	U	77	480
4-Chloro-3-methylphenol		480	U	96	480
2-Chlorophenol		480	U	100	480
2-Methylphenol		480	U	76	480
4-Methylphenol		480	U	72	480
2,4-Dichlorophenol		480	U	100	480
2,4-Dimethylphenol		480	U	65	480
2,4-Dinitrophenol		2300	U	320	2300
4,6-Dinitro-2-methylphenol		2300	U	370	2300
2-Nitrophenol		480	U	100	480
4-Nitrophenol		2300	U	220	2300
Pentachlorophenol		2300	U	34	2300
Phenol		480	U	58	480
2,4,5-Trichlorophenol		2300	U	73	2300
2,4,6-Trichlorophenol		480	U	70	480
Benzyl alcohol		480	U	100	480
4-Nitroaniline		960	U	72	960
2,2'-oxybis[1-chloropropane]		480	U	78	480

Surrogate	%Rec	Acceptance Limits
2-Fluorobiphenyl	72	32 - 131
2-Fluorophenol	71	25 - 113
2,4,6-Tribromophenol	90	24 - 150
Nitrobenzene-d5	65	25 - 120
Phenol-d5	75	27 - 122
Terphenyl-d14	99	35 - 140

DB 1/18/08 EMH 1/30/08

Client: GEI Consultants, Inc.

Job Number: 220-3395-1
Sdg Number: 220-3395

Client Sample ID: EHS-GP-04(4-5)

Lab Sample ID: 220-3395-5
Client Matrix: Solid
% Moisture: 31.9
Date Sampled: 11/13/2007 1450
Date Received: 11/15/2007 1634

6010B Inductively Coupled Plasma - Atomic Emission Spectrometry

Method: 6010B
Preparation: 3050B
Dilution: 1.0
Date Analyzed: 11/21/2007 1542
Date Prepared: 11/19/2007 1407
Analysis Batch: 220-11308
Prep Batch: 220-11213
Instrument ID: TJA Trace ICAP
Lab File ID: W112107
Initial Weight/Volume: 1.41 g
Final Weight/Volume: 250 mL

Analyte	DryWt Corrected: Y	Result (mg/Kg)	Qualifier	MDL	RL
Silver		3.9	U	0.39	3.9
Aluminum		14300		12.0	130
Arsenic		3.0	J	1.8	10.4
Barium		21.1	J	0.29	2.6
Beryllium		2.6	U	0.60	2.6
Calcium		665	J	16.1	260
Cadmium		6.5	U	1.2	6.5
Cobalt		5.0	J	0.68	2.6
Chromium		17.2		0.44	3.9
Copper		5.2	J	0.57	6.5
Iron		12900		12.7	78.1
Potassium		379	J	31.2	260
Magnesium		2350	J	8.1	45.5
Manganese		96.4		0.86	7.8
Sodium		54.3	J	24.7	260
Nickel		10.4	J	0.57	6.5
Lead		7.4		1.1	6.5
Antimony		13.0	UJ	1.8	13.0
Selenium		13.0	U	2.1	13.0
Thallium		19.5	U	2.9	19.5
Vanadium		24.7		0.42	5.2
Zinc		26.8		2.9	26.0

7471A Mercury in Solid or Semisolid Waste (Manual Cold Vapor Technique)

Method: 7471A
Preparation: 7471A
Dilution: 1.0
Date Analyzed: 11/21/2007 0950
Date Prepared: 11/20/2007 1555
Analysis Batch: 220-11278
Prep Batch: 220-11264
Instrument ID: Perkin Elmer FIMS
Lab File ID: N/A
Initial Weight/Volume: 0.62 g
Final Weight/Volume: 50 mL

Analyte	DryWt Corrected: Y	Result (mg/Kg)	Qualifier	MDL	RL
Mercury		0.027	J	0.018	0.071

1/24/08

1/18/08

Client: GEI Consultants, Inc.

Job Number: 220-3395-1
Sdg Number: 220-3395

Client Sample ID: EHS-GP-04(4-5)

Lab Sample ID: 220-3395-5
Client Matrix: Solid

% Moisture: 31.9

Date Sampled: 11/13/2007 1450
Date Received: 11/15/2007 1634

8081A Organochlorine Pesticides by Gas Chromatography

Method: 8081A
Preparation: 3550B
Dilution: 1.0
Date Analyzed: 12/03/2007 1755
Date Prepared: 11/27/2007 1227

Analysis Batch: 220-11521
Prep Batch: 220-11392

Instrument ID: HP 5890 with dual ECD
Lab File ID: D7507053.D
Initial Weight/Volume: 30.89 g
Final Weight/Volume: 10.0 mL
Injection Volume: 1 uL
Column ID: PRIMARY

Analyte	DryWt Corrected: Y Result (ug/Kg)	Qualifier	MDL	RL
4,4'-DDD	4.7	UJ	0.54	4.7
4,4'-DDE	4.7	U	0.62	4.7
4,4'-DDT	4.7	UJ	0.44	4.7
Aldrin	2.9	U	0.51	2.9
alpha-BHC	2.4	U	0.39	2.4
beta-BHC	2.4	U	0.38	2.4
delta-BHC	2.4	U	0.15	2.4
Dieldrin	4.7	U	0.46	4.7
Endosulfan I	2.4	U	0.21	2.4
Endosulfan II	4.7	U	0.24	4.7
Endosulfan sulfate	4.7	U	0.25	4.7
Endrin	7.1	U	1.3	7.1
Endrin aldehyde	4.7	U	0.46	4.7
Endrin ketone	4.7	U	0.21	4.7
gamma-BHC (Lindane)	2.4	U	0.22	2.4
Heptachlor	2.4	U	0.21	2.4
Heptachlor epoxide	2.4	U	0.16	2.4
Methoxychlor	24	U	3.0	24
Toxaphene	95	U	2.5	95
alpha-Chlordane	2.4	U	0.16	2.4
gamma-Chlordane	2.4	U	0.13	2.4

Surrogate	%Rec	Acceptance Limits
DCB Decachlorobiphenyl	100	25 - 159
Tetrachloro-m-xylene	74	24 - 154

Method: 8081A
Preparation: 3550B
Dilution: 1.0
Date Analyzed: 12/03/2007 1755
Date Prepared: 11/27/2007 1227

Analysis Batch: 220-11521
Prep Batch: 220-11392

Instrument ID: HP 5890 with dual ECD
Lab File ID: C7507053.D
Initial Weight/Volume: 30.89 g
Final Weight/Volume: 10.0 mL
Injection Volume: 1 uL
Column ID: SECONDARY

Surrogate	%Rec	Acceptance Limits
DCB Decachlorobiphenyl	97	25 - 159
Tetrachloro-m-xylene	72	24 - 154

JAM 1/1/08

DB 1/18/08

Client: GEI Consultants, Inc.

Job Number: 220-3395-1
Sdg Number: 220-3395

Client Sample ID: **EHS-GP-04(4-5)**

Lab Sample ID: 220-3395-5
Client Matrix: Solid

% Moisture: 31.9

Date Sampled: 11/13/2007 1450
Date Received: 11/15/2007 1634

8082 Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Method: 8082
Preparation: 3550B
Dilution: 1.0
Date Analyzed: 11/29/2007 2331
Date Prepared: 11/27/2007 1227

Analysis Batch: 220-11497
Prep Batch: 220-11392

Instrument ID: HP 5890 with dual ECD
Lab File ID: D4663123.d
Initial Weight/Volume: 30.89 g
Final Weight/Volume: 10.0 mL
Injection Volume: 1 uL
Column ID: PRIMARY

Analyte	DryWt Corrected: Y	Result (ug/Kg)	Qualifier	MDL	RL
PCB-1016		24	U	4.0	24
PCB-1221		47	U	2.2	47
PCB-1232		24	U	2.7	24
PCB-1242		24	U	4.3	24
PCB-1248		24	U	3.8	24
PCB-1254		24	U	1.7	24
PCB-1260		24	U	5.7	24

Surrogate	%Rec	Acceptance Limits
Tetrachloro-m-xylene	62	24 - 154
DCB Decachlorobiphenyl	93	25 - 159

BB 1/18/08

12/31/07

TestAmerica Connecticut

Client Sample ID: EHS-GP-04(4-5)

GC Semivolatiles

Lot-Sample #...:	A7K170204-005	Work Order #...:	KCH5N1AC	Matrix.....:	SO
Date Sampled...:	11/13/07 14:50	Date Received..:	11/17/07		
Prep Date.....:	11/26/07	Analysis Date..:	11/27/07		
Prep Batch #...:	7330014				
Dilution Factor:	1	Initial Wgt/Vol:	50.02 g	Final Wgt/Vol..:	100 mL
% Moisture.....:	29	Method.....:	SW846 8151A		

PARAMETER	RESULT	REPORTING LIMIT	UNITS	MDL
2,4-D	ND	110	ug/kg	51
2,4,5-TP	ND	28	ug/kg	3.1
2,4,5-T	ND	28	ug/kg	4.5

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
2,4-Dichlorophenylacetic acid	75	(19 - 122)

NOTE(S):

Results and reporting limits have been adjusted for dry weight.

DB 1/16/08

EMM 1/10/08

TestAmerica Connecticut

Client Sample ID: EHS-GP-04(4-5)

General Chemistry

Lot-Sample #...: A7K170204-005 Work Order #...: KCH5N Matrix.....: SO
Date Sampled...: 11/13/07 14:50 Date Received..: 11/17/07
% Moisture.....: 29

PARAMETER	RESULT	RL	UNITS	METHOD	PREPARATION-ANALYSIS DATE	PREP BATCH #
Acid-soluble sulfide	8.8 B J	42.4	mg/kg	SW846 9030B/9034	11/19/07	7323421
		Dilution Factor: 1		MDL.....: 7.9		
Percent Solids	70.8	10.0	%	MCAWW 160.3 MOD	11/26-11/27/07	7330572
		Dilution Factor: 1		MDL.....: 10.0		

NOTE(S):

RL Reporting Limit

Results and reporting limits have been adjusted for dry weight.

B Estimated result. Result is less than RL.

1/2/08

Client: GEI Consultants, Inc.

Job Number: 220-3404-1
Sdg Number: 220-3404

Client Sample ID: EHS-GP-04 (44-45)

Lab Sample ID: 220-3404-1
Client Matrix: Solid
% Moisture: 6.6
Date Sampled: 11/16/2007 1040
Date Received: 11/16/2007 2100

8260B Volatile Organic Compounds by GC/MS

Method: 8260B
Preparation: 5030B
Dilution: 1.0
Date Analyzed: 11/21/2007 1903
Date Prepared: 11/21/2007 1903
Analysis Batch: 220-11324
Instrument ID: HP 5890/5971A GC/MS
Lab File ID: N6090.D
Initial Weight/Volume: 5 g
Final Weight/Volume: 5 mL

Analyte	DryWt Corrected: Y	Result (ug/Kg)	Qualifier	MDL	RL
Acetone	✓ 21 U	~~5.4~~	~~J~~	2.5	21
Benzene		5.4	U	0.76	5.4
Bromodichloromethane		5.4	U	0.70	5.4
Bromoform		5.4	U	1.9	5.4
Bromomethane		5.4	U	1.6	5.4
Methyl Ethyl Ketone		11	U	3.6	11
Carbon disulfide		5.4	U	0.57	5.4
Carbon tetrachloride		5.4	U	0.76	5.4
Chlorobenzene		5.4	U	0.94	5.4
Chloroethane		5.4	U	1.4	5.4
Chloroform		5.4	U	0.57	5.4
Chloromethane		5.4	U	1.1	5.4
Dibromochloromethane		5.4	U	1.1	5.4
1,1-Dichloroethane		5.4	U	0.70	5.4
1,2-Dichloroethane		5.4	U	1.2	5.4
1,1-Dichloroethene		5.4	U	0.85	5.4
1,2-Dichloropropane		5.4	U	1.0	5.4
cis-1,3-Dichloropropene		5.4	U	0.66	5.4
trans-1,3-Dichloropropene		5.4	U	1.1	5.4
Ethylbenzene		5.4	U	0.76	5.4
2-Hexanone		11	U	2.8	11
Methylene Chloride	✓ 21 U	~~3.5~~	~~J~~	1.5	21
methyl isobutyl ketone		5.4	U	1.0	5.4
Styrene		5.4	U	1.4	5.4
1,1,2,2-Tetrachloroethane		5.4	U	1.1	5.4
Tetrachloroethene		5.4	U	0.79	5.4
Toluene		5.4	U	0.63	5.4
1,1,1-Trichloroethane		5.4	U	0.78	5.4
1,1,2-Trichloroethane		5.4	U	0.93	5.4
Trichloroethene		5.4	U	1.1	5.4
Vinyl chloride		5.4	U	1.4	5.4
Xylenes, Total		5.4	U	2.6	5.4
cis-1,2-Dichloroethene		5.4	U	0.99	5.4
trans-1,2-Dichloroethene		5.4	U	1.0	5.4

Surrogate	%Rec	Acceptance Limits
1,2-Dichloroethane-d4 (Surr)	82	49 - 134
4-Bromofluorobenzene	42	36 - 133
Dibromofluoromethane	81	60 - 130
Toluene-d8 (Surr)	61	51 - 137

EMM 1/7/08 DB 1/18/08

Client: GEI Consultants, Inc.

Job Number: 220-3404-1
Sdg Number: 220-3404

Client Sample ID: **EHS-GP-04 (44-45)**

Lab Sample ID: 220-3404-1
Client Matrix: Solid
% Moisture: 6.6
Date Sampled: 11/16/2007 1040
Date Received: 11/16/2007 2100

8270C Semivolatile Compounds by Gas Chromatography/Mass Spectrometry (GC/MS)

Method: 8270C
Preparation: 3541
Dilution: 1.0
Date Analyzed: 12/03/2007 1844
Date Prepared: 11/29/2007 1810
Analysis Batch: 220-11555
Prep Batch: 220-11477
Instrument ID: HP 6890/5973 GC/MS
Lab File ID: U2241.D
Initial Weight/Volume: 15.14 g
Final Weight/Volume: 1 mL
Injection Volume: 1 uL

Analyte	DryWt Corrected: Y	Result (ug/Kg)	Qualifier	MDL	RL
Acenaphthene		350	U	61	350
Acenaphthylene		350	U	67	350
Anthracene		350	U	56	350
Benzo[a]anthracene		350	U	51	350
Benzo[a]pyrene		350	U	45	350
Benzo[b]fluoranthene		350	U	60	350
Benzo[g,h,i]perylene		350	U	68	350
Benzo[k]fluoranthene		350	U	57	350
Bis(2-chloroethoxy)methane		350	U	57	350
Bis(2-chloroethyl)ether		350	U	170	350
Bis(2-ethylhexyl) phthalate		350	U	45	350
Butyl benzyl phthalate		350	U	49	350
Carbazole		350	U	60	350
Chrysene		350	U	62	350
Di-n-butyl phthalate		350	U	54	350
Di-n-octyl phthalate		350	U	55	350
4-Bromophenyl phenyl ether		350	U	57	350
4-Chloroaniline		350	U	47	350
2-Chloronaphthalene		350	U	61	350
4-Chlorophenyl phenyl ether		350	U	69	350
Dibenz(a,h)anthracene		350	U	53	350
Dibenzofuran		350	U	61	350
Diethyl phthalate		350	U	87	350
Dimethyl phthalate		350	U	62	350
1,2-Dichlorobenzene		350	U	55	350
1,3-Dichlorobenzene		350	U	56	350
1,4-Dichlorobenzene		350	U	55	350
3,3'-Dichlorobenzidine		700	U	39	700
2,4-Dinitrotoluene		350	U	53	350
2,6-Dinitrotoluene		350	U	140	350
Fluoranthene		350	U	58	350
Fluorene		350	U	60	350
Hexachlorobenzene		350	U	60	350
Hexachlorobutadiene		350	U	67	350
Hexachlorocyclopentadiene		350	U	50	350
Hexachloroethane		350	U	61	350
Indeno[1,2,3-cd]pyrene		350	U	62	350
Isophorone		350	U	72	350
2-Methylnaphthalene		350	U	64	350
Naphthalene		350	U	53	350
2-Nitroaniline		1700	U	47	1700
3-Nitroaniline		1700	U	50	1700
Nitrobenzene		350	U	64	350
N-Nitrosodi-n-propylamine		350	U	78	350

EMM 1/8/08 DB 1/8/08

Client: GEI Consultants, Inc.

Job Number: 220-3404-1
Sdg Number: 220-3404

Client Sample ID: EHS-GP-04 (44-45)

Lab Sample ID: 220-3404-1
Client Matrix: Solid
% Moisture: 6.6

Date Sampled: 11/16/2007 1040
Date Received: 11/16/2007 2100

8270C Semivolatile Compounds by Gas Chromatography/Mass Spectrometry (GC/MS)

Method: 8270C
Preparation: 3541
Dilution: 1.0
Date Analyzed: 12/03/2007 1844
Date Prepared: 11/29/2007 1810

Analysis Batch: 220-11555
Prep Batch: 220-11477

Instrument ID: HP 6890/5973 GC/MS
Lab File ID: U2241.D
Initial Weight/Volume: 15.14 g
Final Weight/Volume: 1 mL
Injection Volume: 1 uL

Analyte	DryWt Corrected: Y	Result (ug/Kg)	Qualifier	MDL	RL
N-Nitrosodiphenylamine		350	U	63	350
Phenanthrene		350	U	58	350
Pyrene		350	U	51	350
1,2,4-Trichlorobenzene		350	U	56	350
4-Chloro-3-methylphenol		350	U	70	350
2-Chlorophenol		350	U	76	350
2-Methylphenol		350	U	55	350
4-Methylphenol		350	U	53	350
2,4-Dichlorophenol		350	U	73	350
2,4-Dimethylphenol		350	U	47	350
2,4-Dinitrophenol		1700	U	230	1700
4,6-Dinitro-2-methylphenol		1700	U	270	1700
2-Nitrophenol		350	U	75	350
4-Nitrophenol		1700	U	160	1700
Pentachlorophenol		1700	U	25	1700
Phenol		350	U	42	350
2,4,5-Trichlorophenol		1700	U	53	1700
2,4,6-Trichlorophenol		350	U	51	350
Benzyl alcohol		350	U	73	350
4-Nitroaniline		700	U	53	700
2,2'-oxybis[1-chloropropane]		350	U	57	350

Surrogate	%Rec	Acceptance Limits
2-Fluorobiphenyl	69	32 - 131
2-Fluorophenol	63	25 - 113
2,4,6-Tribromophenol	71	24 - 150
Nitrobenzene-d5	63	25 - 120
Phenol-d5	65	27 - 122
Terphenyl-d14	77	35 - 140

EMM 1/8/08 DS 1/18/08

Client: GEI Consultants, Inc.

Job Number: 220-3404-1
Sdg Number: 220-3404

Client Sample ID: EHS-GP-04 (44-45)

Lab Sample ID: 220-3404-1
Client Matrix: Solid

% Moisture: 6.6

Date Sampled: 11/16/2007 1040
Date Received: 11/16/2007 2100

6010B Inductively Coupled Plasma - Atomic Emission Spectrometry

Method: 6010B
Preparation: 3050B
Dilution: 1.0
Date Analyzed: 11/21/2007 1638
Date Prepared: 11/19/2007 1407

Analysis Batch: 220-11308
Prep Batch: 220-11213

Instrument ID: TJA Trace ICAP
Lab File ID: W112107
Initial Weight/Volume: 1.19 g
Final Weight/Volume: 250 mL

Analyte	DryWt Corrected: Y	Result (mg/Kg)	Qualifier	MDL	RL
Silver		3.4	U	0.34	3.4
Aluminum		756		10.3	112
Arsenic		9.0	U	1.5	9.0
Barium		5.8 J ✓		0.25	2.2
Beryllium		2.2	U	0.52	2.2
Calcium		~~80.5~~ 225U ✓	~~J~~	13.9	225
Cadmium		5.6	U	1.0	5.6
Cobalt		0.64	J ✓	0.58	2.2
Chromium		2.1	J ✓	0.38	3.4
Copper		1.2	J ✓	0.49	5.6
Iron		1880		11.0	67.5
Potassium		~~117~~ 225U ✓	~~J~~	27.0	225
Magnesium		239 J ✓		7.0	39.4
Manganese		25.3		0.74	6.7
Sodium		225	U	21.4	225
Nickel		1.4	J ✓	0.49	5.6
Lead		5.6	U	0.94	5.6
Antimony		11.2	UJ ✓	1.6	11.2
Selenium		11.2	U	1.8	11.2
Thallium		16.9	U	2.5	16.9
Vanadium		3.0	J ✓	0.36	4.5
Zinc		22.5	U	2.5	22.5

7471A Mercury in Solid or Semisolid Waste (Manual Cold Vapor Technique)

Method: 7471A
Preparation: 7471A
Dilution: 1.0
Date Analyzed: 11/26/2007 1435
Date Prepared: 11/23/2007 1041

Analysis Batch: 220-11359
Prep Batch: 220-11309

Instrument ID: Perkin Elmer FIMS
Lab File ID: N/A
Initial Weight/Volume: 0.63 g
Final Weight/Volume: 50 mL

Analyte	DryWt Corrected: Y	Result (mg/Kg)	Qualifier	MDL	RL
Mercury		0.051	U	0.013	0.051 ✓

DB 1/15/08

Dam 1/24/08

Client: GEI Consultants, Inc.

Job Number: 220-3404-1
Sdg Number: 220-3404

Client Sample ID: EHS-GP-04 (44-45)

Lab Sample ID: 220-3404-1
Client Matrix: Solid

% Moisture: 6.6

Date Sampled: 11/16/2007 1040
Date Received: 11/16/2007 2100

8081A Organochlorine Pesticides by Gas Chromatography

Method: 8081A
Preparation: 3550B
Dilution: 1.0
Date Analyzed: 12/04/2007 1659
Date Prepared: 11/29/2007 1900

Analysis Batch: 220-11588
Prep Batch: 220-11480

Instrument ID: HP 5890 with dual ECD
Lab File ID: D7508018.D
Initial Weight/Volume: 30.52 g
Final Weight/Volume: 10 mL
Injection Volume: 1 uL
Column ID: PRIMARY

Analyte	DryWt Corrected: Y Result (ug/Kg)	Qualifier	MDL	RL
4,4'-DDD	3.5	U	0.40	3.5
4,4'-DDE	3.5	U	0.46	3.5
4,4'-DDT	3.5	U	0.33	3.5
Aldrin	2.1	U	0.37	2.1
alpha-BHC	1.8	U	0.29	1.8
beta-BHC	1.8	U	0.28	1.8
delta-BHC	1.8	U	0.11	1.8
Dieldrin	3.5	U	0.34	3.5
Endosulfan I	1.8	U	0.15	1.8
Endosulfan II	3.5	U	0.18	3.5
Endosulfan sulfate	3.5	U	0.18	3.5
Endrin	5.3	U	0.94	5.3
Endrin aldehyde	3.5	U	0.34	3.5
Endrin ketone	3.5	U	0.15	3.5
gamma-BHC (Lindane)	1.8	U	0.16	1.8
Heptachlor	1.8	U	0.16	1.8
Heptachlor epoxide	1.8	U	0.12	1.8
Methoxychlor	18	U	2.2	18
Toxaphene	71	U	1.8	71
alpha-Chlordane	1.8	U	0.12	1.8
gamma-Chlordane	1.8	U	0.096	1.8

Surrogate	%Rec	Acceptance Limits
DCB Decachlorobiphenyl	104	25 - 159
Tetrachloro-m-xylene	87	24 - 154

Method: 8081A
Preparation: 3550B
Dilution: 1.0
Date Analyzed: 12/04/2007 1659
Date Prepared: 11/29/2007 1900

Analysis Batch: 220-11588
Prep Batch: 220-11480

Instrument ID: HP 5890 with dual ECD
Lab File ID: C7508018.D
Initial Weight/Volume: 30.52 g
Final Weight/Volume: 10 mL
Injection Volume: 1 uL
Column ID: SECONDARY

Surrogate	%Rec	Acceptance Limits
DCB Decachlorobiphenyl	100	25 - 159
Tetrachloro-m-xylene	86	24 - 154

DS 1/8/08

Jam 12/30/07

Client: GEI Consultants, Inc.

Job Number: 220-3404-1
Sdg Number: 220-3404

Client Sample ID: EHS-GP-04 (44-45)

Lab Sample ID: 220-3404-1
Client Matrix: Solid

% Moisture: 6.6

Date Sampled: 11/16/2007 1040
Date Received: 11/16/2007 2100

8082 Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Method: 8082
Preparation: 3550B
Dilution: 1.0
Date Analyzed: 12/01/2007 0040
Date Prepared: 11/29/2007 1900

Analysis Batch: 220-11517
Prep Batch: 220-11480

Instrument ID: HP 5890 with dual ECD
Lab File ID: D4664024.d
Initial Weight/Volume: 30.52 g
Final Weight/Volume: 10 mL
Injection Volume: 1 uL
Column ID: PRIMARY

Analyte	DryWt Corrected: Y Result (ug/Kg)	Qualifier	MDL	RL
PCB-1016	18	U	3.0	18
PCB-1221	35	U	1.6	35
PCB-1232	18	U	2.0	18
PCB-1242	18	U	3.1	18
PCB-1248	18	U	2.8	18
PCB-1254	18	U	1.3	18
PCB-1260	18	U	4.2	18

Surrogate	%Rec	Acceptance Limits
Tetrachloro-m-xylene	84	24 - 154
DCB Decachlorobiphenyl	95	25 - 159

DB 1/18/08

dam 12/30/07

TestAmerica Connecticut

Client Sample ID: EHS-GP-04(44-45)

GC Semivolatiles

Lot-Sample #...:	A7K200307-001	Work Order #...:	KCNFQ1AC	Matrix.....:	SO
Date Sampled...:	11/16/07 10:40	Date Received..:	11/20/07		
Prep Date.....:	11/26/07	Analysis Date..:	11/27/07		
Prep Batch #...:	7330016				
Dilution Factor:	1	Initial Wgt/Vol:	50.03 g	Final Wgt/Vol..:	100 mL
% Moisture.....:	6.3	Method.....:	SW846 8151A		

PARAMETER	RESULT	REPORTING LIMIT	UNITS	MDL
2,4-D	ND	85	ug/kg	38
2,4,5-TP	ND	21	ug/kg	2.3
2,4,5-T	ND	21	ug/kg	3.4

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
2,4-Dichlorophenylacetic acid	56	(19 - 122)

NOTE(S):

Results and reporting limits have been adjusted for dry weight.

TestAmerica Connecticut

Client Sample ID: EHS-GP-04(44-45)

General Chemistry

Lot-Sample #...: A7K200307-001 Work Order #...: KCNFQ Matrix.....: SO
Date Sampled...: 11/16/07 10:40 Date Received..: 11/20/07
% Moisture.....: 6.3

PARAMETER	RESULT	RL	UNITS	METHOD	PREPARATION-ANALYSIS DATE	PREP BATCH #
Acid-soluble sulfide	~~8.0 B,J~~ 32.0 UJ	32.0	mg/kg	SW846 9030B/9034	11/24/07	7328041
	Dilution Factor: 1			MDL.....: 6.0		
Percent Solids	93.7	10.0	%	MCAWW 160.3 MOD	11/29-11/30/07	7333319
	Dilution Factor: 1			MDL.....: 10.0		

NOTE(S):

RL Reporting Limit

Results and reporting limits have been adjusted for dry weight.

B Estimated result. Result is less than RL.

J Method blank contamination. The associated method blank contains the target analyte at a reportable level.

B 1/8/08

1/24/08

Client: GEI Consultants, Inc.

Job Number: 220-3404-1
Sdg Number: 220-3404

Client Sample ID: EHS-GP-05 (4-5)

Lab Sample ID: 220-3404-2
Client Matrix: Solid
% Moisture: 28.2
Date Sampled: 11/16/2007 1220
Date Received: 11/16/2007 2100

8260B Volatile Organic Compounds by GC/MS

Method: 8260B
Preparation: 5030B
Dilution: 1.0
Date Analyzed: 11/21/2007 1928
Date Prepared: 11/21/2007 1928
Analysis Batch: 220-11324
Instrument ID: HP 5890/5971A GC/MS
Lab File ID: N6091.D
Initial Weight/Volume: 5 g
Final Weight/Volume: 5 mL

Analyte	DryWt Corrected: Y	Result (ug/Kg)	Qualifier	MDL	RL
Acetone	✓28 U	~~8.4~~	~~J~~	3.3	28
Benzene		7.0	U	0.99	7.0
Bromodichloromethane		7.0	U	0.91	7.0
Bromoform		7.0	U	2.4	7.0
Bromomethane		7.0	U	2.1	7.0
Methyl Ethyl Ketone		14	U	4.7	14
Carbon disulfide		7.0	U	0.74	7.0
Carbon tetrachloride		7.0	U	0.99	7.0
Chlorobenzene		7.0	U	1.2	7.0
Chloroethane		7.0	U	1.8	7.0
Chloroform		7.0	U	0.74	7.0
Chloromethane		7.0	U	1.4	7.0
Dibromochloromethane		7.0	U	1.5	7.0
1,1-Dichloroethane		7.0	U	0.91	7.0
1,2-Dichloroethane		7.0	U	1.5	7.0
1,1-Dichloroethene		7.0	U	1.1	7.0
1,2-Dichloropropane		7.0	U	1.4	7.0
cis-1,3-Dichloropropene		7.0	U	0.86	7.0
trans-1,3-Dichloropropene		7.0	U	1.5	7.0
Ethylbenzene		7.0	U	0.99	7.0
2-Hexanone		14	U	3.7	14
Methylene Chloride	✓28 U	~~5.7~~	~~J~~	1.9	28
methyl isobutyl ketone		7.0	U	1.3	7.0
Styrene		7.0	U	1.8	7.0
1,1,2,2-Tetrachloroethane		7.0	U	1.4	7.0
Tetrachloroethene		7.0	U	1.0	7.0
Toluene		7.0	U	0.82	7.0
1,1,1-Trichloroethane		7.0	U	1.0	7.0
1,1,2-Trichloroethane		7.0	U	1.2	7.0
Trichloroethene		7.0	U	1.4	7.0
Vinyl chloride		7.0	U	1.8	7.0
Xylenes, Total		7.0	U	3.4	7.0
cis-1,2-Dichloroethene		7.0	U	1.3	7.0
trans-1,2-Dichloroethene		7.0	U	1.3	7.0

Surrogate	%Rec	Acceptance Limits
1,2-Dichloroethane-d4 (Surr)	91	49 - 134
4-Bromofluorobenzene	83	36 - 133
Dibromofluoromethane	90	60 - 130
Toluene-d8 (Surr)	85	51 - 137

EHM 1/7/08 DB 1/8/08

Client: GEI Consultants, Inc.

Job Number: 220-3404-1
Sdg Number: 220-3404

Client Sample ID: EHS-GP-05 (4-5)

Lab Sample ID: 220-3404-2
Client Matrix: Solid
% Moisture: 28.2
Date Sampled: 11/16/2007 1220
Date Received: 11/16/2007 2100

8270C Semivolatile Compounds by Gas Chromatography/Mass Spectrometry (GC/MS)

Method: 8270C
Preparation: 3541
Dilution: 1.0
Date Analyzed: 12/03/2007 1908
Date Prepared: 11/29/2007 1810
Analysis Batch: 220-11555
Prep Batch: 220-11477
Instrument ID: HP 6890/5973 GC/MS
Lab File ID: U2242.D
Initial Weight/Volume: 15.04 g
Final Weight/Volume: 1 mL
Injection Volume: 1 uL

Analyte	DryWt Corrected: Y	Result (ug/Kg)	Qualifier	MDL	RL
Acenaphthene		460	U	80	460
Acenaphthylene		460	U	87	460
Anthracene		460	U	74	460
Benzo[a]anthracene		460	U	67	460
Benzo[a]pyrene		460	U	59	460
Benzo[b]fluoranthene		460	U	78	460
Benzo[g,h,i]perylene		460	U	90	460
Benzo[k]fluoranthene		460	U	75	460
Bis(2-chloroethoxy)methane		460	U	74	460
Bis(2-chloroethyl)ether		460	U	230	460
Bis(2-ethylhexyl) phthalate		460	U	59	460
Butyl benzyl phthalate		460	U	64	460
Carbazole		460	U	78	460
Chrysene		460	U	81	460
Di-n-butyl phthalate		460	U	71	460
Di-n-octyl phthalate		460	U	72	460
4-Bromophenyl phenyl ether		460	U	74	460
4-Chloroaniline		460	U	61	460
2-Chloronaphthalene		460	U	80	460
4-Chlorophenyl phenyl ether		460	U	90	460
Dibenz(a,h)anthracene		460	U	69	460
Dibenzofuran		460	U	80	460
Diethyl phthalate		460	U	110	460
Dimethyl phthalate		460	U	81	460
1,2-Dichlorobenzene		460	U	73	460
1,3-Dichlorobenzene		460	U	74	460
1,4-Dichlorobenzene		460	U	72	460
3,3'-Dichlorobenzidine		920	U	51	920
2,4-Dinitrotoluene		460	U	70	460
2,6-Dinitrotoluene		460	U	180	460
Fluoranthene		460	U	76	460
Fluorene		460	U	78	460
Hexachlorobenzene		460	U	79	460
Hexachlorobutadiene		460	U	87	460
Hexachlorocyclopentadiene		460	U	65	460
Hexachloroethane		460	U	79	460
Indeno[1,2,3-cd]pyrene		460	U	81	460
Isophorone		460	U	94	460
2-Methylnaphthalene		460	U	84	460
Naphthalene		460	U	70	460
2-Nitroaniline		2200	U	62	2200
3-Nitroaniline		2200	U	65	2200
Nitrobenzene		460	U	84	460
N-Nitrosodi-n-propylamine		460	U	100	460

EHM 1/8/08 DB 1/8/08

Client: GEI Consultants, Inc.

Job Number: 220-3404-1
Sdg Number: 220-3404

Client Sample ID: **EHS-GP-05 (4-5)**

Lab Sample ID: 220-3404-2
Client Matrix: Solid
% Moisture: 28.2
Date Sampled: 11/16/2007 1220
Date Received: 11/16/2007 2100

8270C Semivolatile Compounds by Gas Chromatography/Mass Spectrometry (GC/MS)

Method: 8270C
Preparation: 3541
Dilution: 1.0
Date Analyzed: 12/03/2007 1908
Date Prepared: 11/29/2007 1810
Analysis Batch: 220-11555
Prep Batch: 220-11477
Instrument ID: HP 6890/5973 GC/MS
Lab File ID: U2242.D
Initial Weight/Volume: 15.04 g
Final Weight/Volume: 1 mL
Injection Volume: 1 uL

Analyte	DryWt Corrected: Y	Result (ug/Kg)	Qualifier	MDL	RL
N-Nitrosodiphenylamine		460	U	83	460
Phenanthrene		460	U	75	460
Pyrene		460	U	67	460
1,2,4-Trichlorobenzene		460	U	73	460
4-Chloro-3-methylphenol		460	U	92	460
2-Chlorophenol		460	U	99	460
2-Methylphenol		460	U	72	460
4-Methylphenol		460	U	69	460
2,4-Dichlorophenol		460	U	95	460
2,4-Dimethylphenol		460	U	61	460
2,4-Dinitrophenol		2200	U	300	2200
4,6-Dinitro-2-methylphenol		2200	U	350	2200
2-Nitrophenol		460	U	98	460
4-Nitrophenol		2200	U	210	2200
Pentachlorophenol		2200	U	32	2200
Phenol		460	U	55	460
2,4,5-Trichlorophenol		2200	U	70	2200
2,4,6-Trichlorophenol		460	U	67	460
Benzyl alcohol		460	U	95	460
4-Nitroaniline		920	U	69	920
2,2'-oxybis[1-chloropropane]		460	U	74	460

Surrogate	%Rec	Acceptance Limits
2-Fluorobiphenyl	63	32 - 131
2-Fluorophenol	60	25 - 113
2,4,6-Tribromophenol	75	24 - 150
Nitrobenzene-d5	58	25 - 120
Phenol-d5	61	27 - 122
Terphenyl-d14	83	35 - 140

EHM 1/18/08

1/18/08

Client: GEI Consultants, Inc.

Job Number: 220-3404-1
Sdg Number: 220-3404

Client Sample ID: EHS-GP-05 (4-5)

Lab Sample ID: 220-3404-2
Client Matrix: Solid

% Moisture: 28.2

Date Sampled: 11/16/2007 1220
Date Received: 11/16/2007 2100

6010B Inductively Coupled Plasma - Atomic Emission Spectrometry

Method: 6010B
Preparation: 3050B
Dilution: 1.0
Date Analyzed: 11/21/2007 1652
Date Prepared: 11/19/2007 1407

Analysis Batch: 220-11308
Prep Batch: 220-11213

Instrument ID: TJA Trace ICAP
Lab File ID: W112107
Initial Weight/Volume: 1.36 g
Final Weight/Volume: 250 mL

Analyte	DryWt Corrected: Y	Result (mg/Kg)	Qualifier	MDL	RL
Silver		3.8	U	0.38	3.8
Aluminum		11600		11.8	128
Arsenic		5.3	J ✓	1.7	10.2
Barium		23.5 J ✓		0.28	2.6
Beryllium		0.65	J ✓	0.59	2.6
Calcium		707 J ✓		15.9	256
Cadmium		6.4	U	1.2	6.4
Cobalt		6.2 J ✓		0.67	2.6
Chromium		15.9		0.44	3.8
Copper		10.2		0.56	6.4
Iron		18100		12.5	76.8
Potassium		654 J ✓		30.7	256
Magnesium		2700 J ✓		7.9	44.8
Manganese		190		0.84	7.7
Sodium		110	J ✓	24.3	256
Nickel		11.0		0.56	6.4
Lead		6.7		1.1	6.4
Antimony		12.8	UJ ✓	1.8	12.8
Selenium		12.8	U	2.1	12.8
Thallium		19.2	U	2.8	19.2
Vanadium		26.3		0.41	5.1
Zinc		26.6		2.8	25.6

7471A Mercury in Solid or Semisolid Waste (Manual Cold Vapor Technique)

Method: 7471A
Preparation: 7471A
Dilution: 1.0
Date Analyzed: 11/26/2007 1436
Date Prepared: 11/23/2007 1041

Analysis Batch: 220-11359
Prep Batch: 220-11309

Instrument ID: Perkin Elmer FIMS
Lab File ID: N/A
Initial Weight/Volume: 0.63 g
Final Weight/Volume: 50 mL

Analyte	DryWt Corrected: Y	Result (mg/Kg)	Qualifier	MDL	RL
Mercury		0.066	U	0.017	0.066 ✓

DS 1/18/08

DAnn 1/2/08

Client: GEI Consultants, Inc.

Job Number: 220-3404-1
Sdg Number: 220-3404

Client Sample ID: EHS-GP-05 (4-5)

Lab Sample ID: 220-3404-2
Client Matrix: Solid

% Moisture: 28.2

Date Sampled: 11/16/2007 1220
Date Received: 11/16/2007 2100

8081A Organochlorine Pesticides by Gas Chromatography

Method: 8081A
Preparation: 3550B
Dilution: 1.0
Date Analyzed: 12/04/2007 1720
Date Prepared: 11/29/2007 1900

Analysis Batch: 220-11588
Prep Batch: 220-11480

Instrument ID: HP 5890 with dual ECD
Lab File ID: D7508019.D
Initial Weight/Volume: 30.21 g
Final Weight/Volume: 10 mL
Injection Volume: 1 uL
Column ID: PRIMARY

Analyte	DryWt Corrected: Y Result (ug/Kg)	Qualifier	MDL	RL
4,4'-DDD	4.6	U	0.53	4.6
4,4'-DDE	4.6	U	0.60	4.6
4,4'-DDT	4.6	U	0.43	4.6
Aldrin	2.8	U	0.49	2.8
alpha-BHC	2.4	U	0.38	2.4
beta-BHC	2.4	U	0.37	2.4
delta-BHC	2.4	U	0.14	2.4
Dieldrin	4.6	U	0.44	4.6
Endosulfan I	2.4	U	0.20	2.4
Endosulfan II	4.6	U	0.24	4.6
Endosulfan sulfate	4.6	U	0.24	4.6
Endrin	6.9	U	1.2	6.9
Endrin aldehyde	4.6	U	0.45	4.6
Endrin ketone	4.6	U	0.20	4.6
gamma-BHC (Lindane)	2.4	U	0.21	2.4
Heptachlor	2.4	U	0.21	2.4
Heptachlor epoxide	2.4	U	0.16	2.4
Methoxychlor	24	U	2.9	24
Toxaphene	93	U	2.4	93
alpha-Chlordane	2.4	U	0.15	2.4
gamma-Chlordane	2.4	U	0.13	2.4

Surrogate	%Rec	Acceptance Limits
DCB Decachlorobiphenyl	101	25 - 159
Tetrachloro-m-xylene	81	24 - 154

Method: 8081A
Preparation: 3550B
Dilution: 1.0
Date Analyzed: 12/04/2007 1720
Date Prepared: 11/29/2007 1900

Analysis Batch: 220-11588
Prep Batch: 220-11480

Instrument ID: HP 5890 with dual ECD
Lab File ID: C7508019.D
Initial Weight/Volume: 30.21 g
Final Weight/Volume: 10 mL
Injection Volume: 1 uL
Column ID: SECONDARY

Surrogate	%Rec	Acceptance Limits
DCB Decachlorobiphenyl	97	25 - 159
Tetrachloro-m-xylene	82	24 - 154

JBm 12/10/07

Client: GEI Consultants, Inc.

Job Number: 220-3404-1
Sdg Number: 220-3404

Client Sample ID: **EHS-GP-05 (4-5)**

Lab Sample ID: 220-3404-2
Client Matrix: Solid

% Moisture: 28.2

Date Sampled: 11/16/2007 1220
Date Received: 11/16/2007 2100

8082 Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Method: 8082
Preparation: 3550B
Dilution: 1.0
Date Analyzed: 12/01/2007 0057
Date Prepared: 11/29/2007 1900

Analysis Batch: 220-11517
Prep Batch: 220-11480

Instrument ID: HP 5890 with dual ECD
Lab File ID: D4664025.d
Initial Weight/Volume: 30.21 g
Final Weight/Volume: 10 mL
Injection Volume: 1 uL
Column ID: PRIMARY

Analyte	DryWt Corrected: Y Result (ug/Kg)	Qualifier	MDL	RL
PCB-1016	24	U	3.9	24
PCB-1221	46	U	2.1	46
PCB-1232	24	U	2.6	24
PCB-1242	24	U	4.1	24
PCB-1248	24	U	3.7	24
PCB-1254	24	U	1.7	24
PCB-1260	24	U	5.5	24

Surrogate	%Rec	Acceptance Limits
Tetrachloro-m-xylene	66	24 - 154
DCB Decachlorobiphenyl	82	25 - 159

jbm 12/30/10

TestAmerica Connecticut

Client Sample ID: EHS-GP-05(4-5)

GC Semivolatiles

Lot-Sample #...:	A7K200307-002	Work Order #...:	KCNFT1AC	Matrix.....:	SO
Date Sampled...:	11/16/07 12:20	Date Received..:	11/20/07		
Prep Date.....:	11/26/07	Analysis Date..:	11/27/07		
Prep Batch #...:	7330016				
Dilution Factor:	1	Initial Wgt/Vol:	50.07 g	Final Wgt/Vol..:	100 mL
% Moisture.....:	22	Method.....:	SW846 8151A		

PARAMETER	RESULT	REPORTING LIMIT	UNITS	MDL
2,4-D	ND	100	ug/kg	46
2,4,5-TP	ND	26	ug/kg	2.8
2,4,5-T	ND	26	ug/kg	4.1

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
2,4-Dichlorophenylacetic acid	50	(19 - 122)

NOTE(S):

Results and reporting limits have been adjusted for dry weight.

TestAmerica Connecticut

Client Sample ID: EHS-GP-05(4-5)

General Chemistry

Lot-Sample #...: A7K200307-002 Work Order #...: KCNFT Matrix.....: SO
Date Sampled...: 11/16/07 12:20 Date Received..: 11/20/07
% Moisture.....: 22

PARAMETER	RESULT	RL	UNITS	METHOD	PREPARATION-ANALYSIS DATE	PREP BATCH #
Acid-soluble sulfide	~~37.1 B,J~~ 38.6 U,J	38.6 Dilution Factor: 1	mg/kg	SW846 9030B/9034 MDL.....: 7.2	11/24/07	7328041
Percent Solids	77.7	10.0 Dilution Factor: 1	%	MCAWW 160.3 MOD MDL.....: 10.0	11/29-11/30/07	7333319

NOTE(S):

RL Reporting Limit

Results and reporting limits have been adjusted for dry weight.

B Estimated result. Result is less than RL.

J Method blank contamination. The associated method blank contains the target analyte at a reportable level.

DB 1/18/08

Dam 1/21/08

Client: GEI Consultants, Inc.

Job Number: 220-3404-1
Sdg Number: 220-3404

Client Sample ID: EHS-GP-05 (44-45)

Lab Sample ID: 220-3404-3
Client Matrix: Solid

% Moisture: 12.6

Date Sampled: 11/16/2007 1400
Date Received: 11/16/2007 2100

8260B Volatile Organic Compounds by GC/MS

Method: 8260B
Preparation: 5030B
Dilution: 1.0
Date Analyzed: 11/21/2007 1953
Date Prepared: 11/21/2007 1953

Analysis Batch: 220-11324

Instrument ID: HP 5890/5971A GC/MS
Lab File ID: N6092.D
Initial Weight/Volume: 5 g
Final Weight/Volume: 5 mL

Analyte	DryWt Corrected: Y	Result (ug/Kg)	Qualifier	MDL	RL
Acetone	✓ 23 U	~~6.2~~	~~J~~	2.7	23
Benzene		5.7	U	0.81	5.7
Bromodichloromethane		5.7	U	0.74	5.7
Bromoform		5.7	U	2.0	5.7
Bromomethane		5.7	U	1.7	5.7
Methyl Ethyl Ketone		11	U	3.8	11
Carbon disulfide		5.7	U	0.61	5.7
Carbon tetrachloride		5.7	U	0.81	5.7
Chlorobenzene		5.7	U	1.0	5.7
Chloroethane		5.7	U	1.5	5.7
Chloroform		5.7	U	0.61	5.7
Chloromethane		5.7	U	1.2	5.7
Dibromochloromethane		5.7	U	1.2	5.7
1,1-Dichloroethane		5.7	U	0.74	5.7
1,2-Dichloroethane		5.7	U	1.2	5.7
1,1-Dichloroethene		5.7	U	0.90	5.7
1,2-Dichloropropane		5.7	U	1.1	5.7
cis-1,3-Dichloropropene		5.7	U	0.71	5.7
trans-1,3-Dichloropropene		5.7	U	1.2	5.7
Ethylbenzene		5.7	U	0.81	5.7
2-Hexanone		11	U	3.0	11
Methylene Chloride	✓ 23 U	~~3.2~~	~~J~~	1.6	23
methyl isobutyl ketone		5.7	U	1.1	5.7
Styrene		5.7	U	1.5	5.7
1,1,2,2-Tetrachloroethane		5.7	U	1.2	5.7
Tetrachloroethene		5.7	U	0.85	5.7
Toluene		5.7	U	0.68	5.7
1,1,1-Trichloroethane		5.7	U	0.84	5.7
1,1,2-Trichloroethane		5.7	U	1.0	5.7
Trichloroethene		5.7	U	1.1	5.7
Vinyl chloride		5.7	U	1.5	5.7
Xylenes, Total		5.7	U	2.8	5.7
cis-1,2-Dichloroethene		5.7	U	1.1	5.7
trans-1,2-Dichloroethene		5.7	U	1.1	5.7

Surrogate	%Rec	Acceptance Limits
1,2-Dichloroethane-d4 (Surr)	93	49 - 134
4-Bromofluorobenzene	71	36 - 133
Dibromofluoromethane	94	60 - 130
Toluene-d8 (Surr)	78	51 - 137

EMM 11/7/08 DB 11/18/08 12/13/2007

Client: GEI Consultants, Inc.

Job Number: 220-3404-1
Sdg Number: 220-3404

Client Sample ID: **EHS-GP-05 (44-45)**

Lab Sample ID: 220-3404-3
Client Matrix: Solid % Moisture: 12.6

Date Sampled: 11/16/2007 1400
Date Received: 11/16/2007 2100

8270C Semivolatile Compounds by Gas Chromatography/Mass Spectrometry (GC/MS)

Method: 8270C
Preparation: 3541
Dilution: 1.0
Date Analyzed: 12/03/2007 1932
Date Prepared: 11/29/2007 1810

Analysis Batch: 220-11555
Prep Batch: 220-11477

Instrument ID: HP 6890/5973 GC/MS
Lab File ID: U2243.D
Initial Weight/Volume: 15.48 g
Final Weight/Volume: 1 mL
Injection Volume: 1 uL

Analyte	DryWt Corrected: Y	Result (ug/Kg)	Qualifier	MDL	RL
Acenaphthene		370	U	64	370
Acenaphthylene		370	U	70	370
Anthracene		370	U	59	370
Benzo[a]anthracene		370	U	53	370
Benzo[a]pyrene		370	U	47	370
Benzo[b]fluoranthene		370	U	63	370
Benzo[g,h,i]perylene		370	U	72	370
Benzo[k]fluoranthene		370	U	60	370
Bis(2-chloroethoxy)methane		370	U	59	370
Bis(2-chloroethyl)ether		370	U	180	370
Bis(2-ethylhexyl) phthalate		370	U	47	370
Butyl benzyl phthalate		370	U	51	370
Carbazole		370	U	62	370
Chrysene		370	U	64	370
Di-n-butyl phthalate		370	U	56	370
Di-n-octyl phthalate		370	U	58	370
4-Bromophenyl phenyl ether		370	U	59	370
4-Chloroaniline		370	U	49	370
2-Chloronaphthalene		370	U	64	370
4-Chlorophenyl phenyl ether		370	U	72	370
Dibenz(a,h)anthracene		370	U	55	370
Dibenzofuran		370	U	64	370
Diethyl phthalate		370	U	91	370
Dimethyl phthalate		370	U	65	370
1,2-Dichlorobenzene		370	U	58	370
1,3-Dichlorobenzene		370	U	59	370
1,4-Dichlorobenzene		370	U	57	370
3,3'-Dichlorobenzidine		730	U	41	730
2,4-Dinitrotoluene		370	U	56	370
2,6-Dinitrotoluene		370	U	150	370
Fluoranthene		370	U	61	370
Fluorene		370	U	62	370
Hexachlorobenzene		370	U	63	370
Hexachlorobutadiene		370	U	70	370
Hexachlorocyclopentadiene		370	U	52	370
Hexachloroethane		370	U	63	370
Indeno[1,2,3-cd]pyrene		370	U	65	370
Isophorone		370	U	75	370
2-Methylnaphthalene		370	U	67	370
Naphthalene		370	U	56	370
2-Nitroaniline		1800	U	49	1800
3-Nitroaniline		1800	U	52	1800
Nitrobenzene		370	U	67	370
N-Nitrosodi-n-propylamine		370	U	82	370

DB 1/18/08 EMH 1/18/08

Client: GEI Consultants, Inc.

Job Number: 220-3404-1
Sdg Number: 220-3404

Client Sample ID: EHS-GP-05 (44-45)

Lab Sample ID: 220-3404-3
Client Matrix: Solid
% Moisture: 12.6
Date Sampled: 11/16/2007 1400
Date Received: 11/16/2007 2100

8270C Semivolatile Compounds by Gas Chromatography/Mass Spectrometry (GC/MS)

Method: 8270C
Preparation: 3541
Dilution: 1.0
Date Analyzed: 12/03/2007 1932
Date Prepared: 11/29/2007 1810
Analysis Batch: 220-11555
Prep Batch: 220-11477
Instrument ID: HP 6890/5973 GC/MS
Lab File ID: U2243.D
Initial Weight/Volume: 15.48 g
Final Weight/Volume: 1 mL
Injection Volume: 1 uL

Analyte	DryWt Corrected: Y	Result (ug/Kg)	Qualifier	MDL	RL
N-Nitrosodiphenylamine		370	U	66	370
Phenanthrene		370	U	60	370
Pyrene		370	U	54	370
1,2,4-Trichlorobenzene		370	U	58	370
4-Chloro-3-methylphenol		370	U	73	370
2-Chlorophenol		370	U	79	370
2-Methylphenol		370	U	58	370
4-Methylphenol		370	U	55	370
2,4-Dichlorophenol		370	U	76	370
2,4-Dimethylphenol		370	U	49	370
2,4-Dinitrophenol		1800	U	240	1800
4,6-Dinitro-2-methylphenol		1800	U	280	1800
2-Nitrophenol		370	U	79	370
4-Nitrophenol		1800	U	170	1800
Pentachlorophenol		1800	U	26	1800
Phenol		370	U	44	370
2,4,5-Trichlorophenol		1800	U	56	1800
2,4,6-Trichlorophenol		370	U	53	370
Benzyl alcohol		370	U	76	370
4-Nitroaniline		730	U	55	730
2,2'-oxybis[1-chloropropane]		370	U	59	370

Surrogate	%Rec	Acceptance Limits
2-Fluorobiphenyl	67	32 - 131
2-Fluorophenol	59	25 - 113
2,4,6-Tribromophenol	73	24 - 150
Nitrobenzene-d5	60	25 - 120
Phenol-d5	61	27 - 122
Terphenyl-d14	87	35 - 140

DB 1/18/08 EHM 1/18/08

Client: GEI Consultants, Inc.

Job Number: 220-3404-1
Sdg Number: 220-3404

Client Sample ID: EHS-GP-05 (44-45)

Lab Sample ID: 220-3404-3
Client Matrix: Solid

% Moisture: 12.6

Date Sampled: 11/16/2007 1400
Date Received: 11/16/2007 2100

6010B Inductively Coupled Plasma - Atomic Emission Spectrometry

Method: 6010B
Preparation: 3050B
Dilution: 1.0
Date Analyzed: 11/21/2007 1657
Date Prepared: 11/19/2007 1407

Analysis Batch: 220-11308
Prep Batch: 220-11213

Instrument ID: TJA Trace ICAP
Lab File ID: W112107
Initial Weight/Volume: 1.16 g
Final Weight/Volume: 250 mL

Analyte	DryWt Corrected: Y	Result (mg/Kg)	Qualifier	MDL	RL
Silver		3.7	U	0.37	3.7
Aluminum		596		11.3	123
Arsenic		9.9	U	1.7	9.9
Barium		2.7 J ✓		0.27	2.5
Beryllium		2.5	U	0.57	2.5
Calcium		~~47.0~~ 247 U ✓	~~J~~	15.3	247
Cadmium		6.2	U	1.1	6.2
Cobalt		2.5	U	0.64	2.5
Chromium		1.5	J ✓	0.42	3.7
Copper		0.86	J ✓	0.54	6.2
Iron		1310		12.1	74.0
Potassium		~~53.0~~ 247 U ✓	~~J~~	29.6	247
Magnesium		139 J ✓		7.6	43.2
Manganese		22.6		0.81	7.4
Sodium		247	U	23.4	247
Nickel		0.90	J ✓	0.54	6.2
Lead		6.2	U	1.0	6.2
Antimony		12.3	UJ ✓	1.7	12.3
Selenium		12.3	U	2.0	12.3
Thallium		18.5	U	2.7	18.5
Vanadium		1.7	J	0.39	4.9
Zinc		24.7	U	2.7	24.7

7471A Mercury in Solid or Semisolid Waste (Manual Cold Vapor Technique)

Method: 7471A
Preparation: 7471A
Dilution: 1.0
Date Analyzed: 11/26/2007 1437
Date Prepared: 11/23/2007 1041

Analysis Batch: 220-11359
Prep Batch: 220-11309

Instrument ID: Perkin Elmer FIMS
Lab File ID: N/A
Initial Weight/Volume: 0.64 g
Final Weight/Volume: 50 mL

Analyte	DryWt Corrected: Y	Result (mg/Kg)	Qualifier	MDL	RL
Mercury		0.054	U	0.014	0.054 ✓

MS 1/8/08

pm 1/2/08

Client: GEI Consultants, Inc.

Job Number: 220-3404-1
Sdg Number: 220-3404

Client Sample ID: EHS-GP-05 (44-45)

Lab Sample ID: 220-3404-3
Client Matrix: Solid

% Moisture: 12.6

Date Sampled: 11/16/2007 1400
Date Received: 11/16/2007 2100

8081A Organochlorine Pesticides by Gas Chromatography

Method: 8081A
Preparation: 3550B
Dilution: 1.0
Date Analyzed: 12/04/2007 1742
Date Prepared: 11/29/2007 1900

Analysis Batch: 220-11588
Prep Batch: 220-11480

Instrument ID: HP 5890 with dual ECD
Lab File ID: D7508020.D
Initial Weight/Volume: 30.79 g
Final Weight/Volume: 10 mL
Injection Volume: 1 uL
Column ID: PRIMARY

DryWt Corrected: Y

Analyte	Result (ug/Kg)	Qualifier	MDL	RL
4,4'-DDD	3.7	U	0.42	3.7
4,4'-DDE	3.7	U	0.48	3.7
4,4'-DDT	3.7	U	0.34	3.7
Aldrin	2.2	U	0.40	2.2
alpha-BHC	1.9	U	0.31	1.9
beta-BHC	1.9	U	0.30	1.9
delta-BHC	1.9	U	0.11	1.9
Dieldrin	3.7	U	0.36	3.7
Endosulfan I	1.9	U	0.16	1.9
Endosulfan II	3.7	U	0.19	3.7
Endosulfan sulfate	3.7	U	0.19	3.7
Endrin	5.6	U	0.99	5.6
Endrin aldehyde	3.7	U	0.36	3.7
Endrin ketone	3.7	U	0.16	3.7
gamma-BHC (Lindane)	1.9	U	0.17	1.9
Heptachlor	1.9	U	0.17	1.9
Heptachlor epoxide	~~0.18~~ 1.9U ✓	~~J~~	0.13	1.9
Methoxychlor	19	U	2.4	19
Toxaphene	75	U	2.0	75
alpha-Chlordane	1.9	U	0.12	1.9
gamma-Chlordane	1.9	U	0.10	1.9

Surrogate	%Rec	Acceptance Limits
DCB Decachlorobiphenyl	108	25 - 159
Tetrachloro-m-xylene	81	24 - 154

Method: 8081A
Preparation: 3550B
Dilution: 1.0
Date Analyzed: 12/04/2007 1742
Date Prepared: 11/29/2007 1900

Analysis Batch: 220-11588
Prep Batch: 220-11480

Instrument ID: HP 5890 with dual ECD
Lab File ID: C7508020.D
Initial Weight/Volume: 30.79 g
Final Weight/Volume: 10 mL
Injection Volume: 1 uL
Column ID: SECONDARY

Surrogate	%Rec	Acceptance Limits
DCB Decachlorobiphenyl	104	25 - 159
Tetrachloro-m-xylene	80	24 - 154

DB 1/8/08

jam 12/30/07

Client: GEI Consultants, Inc.

Job Number: 220-3404-1
Sdg Number: 220-3404

Client Sample ID: **EHS-GP-05 (44-45)**

Lab Sample ID: 220-3404-3
Client Matrix: Solid

% Moisture: 12.6

Date Sampled: 11/16/2007 1400
Date Received: 11/16/2007 2100

8082 Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Method: 8082
Preparation: 3550B
Dilution: 1.0
Date Analyzed: 12/01/2007 0114
Date Prepared: 11/29/2007 1900

Analysis Batch: 220-11517
Prep Batch: 220-11480

Instrument ID: HP 5890 with dual ECD
Lab File ID: D4664026.d
Initial Weight/Volume: 30.79 g
Final Weight/Volume: 10 mL
Injection Volume: 1 uL
Column ID: PRIMARY

Analyte	DryWt Corrected: Y Result (ug/Kg)	Qualifier	MDL	RL
PCB-1016	19	U	3.1	19
PCB-1221	37	U	1.7	37
PCB-1232	19	U	2.1	19
PCB-1242	19	U	3.3	19
PCB-1248	19	U	3.0	19
PCB-1254	19	U	1.3	19
PCB-1260	19	U	4.5	19

Surrogate	%Rec	Acceptance Limits
Tetrachloro-m-xylene	76	24 - 154
DCB Decachlorobiphenyl	101	25 - 159

DB 1/18/08

Jhm 12/20/07

TestAmerica Connecticut

Client Sample ID: EHS-GP-05(44-45)

GC Semivolatiles

Lot-Sample #...:	A7K200307-003	Work Order #...:	KCNFV1AC	Matrix.....:	SO
Date Sampled...:	11/16/07 14:00	Date Received..:	11/20/07		
Prep Date.....:	11/26/07	Analysis Date..:	11/27/07		
Prep Batch #...:	7330016				
Dilution Factor:	1	Initial Wgt/Vol:	50.14 g	Final Wgt/Vol..:	100 mL
% Moisture.....:	6.9	Method.....:	SW846 8151A		

PARAMETER	RESULT	REPORTING LIMIT	UNITS	MDL
2,4-D	ND	86	ug/kg	39
2,4,5-TP	ND	21	ug/kg	2.4
2,4,5-T	ND	21	ug/kg	3.4

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
2,4-Dichlorophenylacetic acid	97	(19 - 122)

NOTE(S):

Results and reporting limits have been adjusted for dry weight.

DB 1/18/08 EMM 1/18/08

TestAmerica Connecticut

Client Sample ID: EHS-GP-05(44-45)

General Chemistry

Lot-Sample #...: A7K200307-003 Work Order #...: KCNFV Matrix.....: SO
Date Sampled...: 11/16/07 14:00 Date Received..: 11/20/07
% Moisture.....: 6.9

PARAMETER	RESULT	RL	UNITS	METHOD	PREPARATION-ANALYSIS DATE	PREP BATCH #
Acid-soluble sulfide	ND UJ ✓	32.2	mg/kg	SW846 9030B/9034	11/24/07	7328041
		Dilution Factor: 1		MDL.....: 6.0		
Percent Solids	93.1	10.0	%	MCAWW 160.3 MOD	11/29-11/30/07	7333319
		Dilution Factor: 1		MDL.....: 10.0		

NOTE(S):

RL Reporting Limit

Results and reporting limits have been adjusted for dry weight.

Jan 1/2/08

General Chemistry

Client Sample ID: EHS-GP-02(4-5)

Lab Sample ID: 220-3395-1
Client Matrix: Solid

% Moisture: 13.0

Date Sampled: 11/13/2007 1317
Date Received: 11/15/2007 1634

Analyte	Result	Qual	Units	MDL	RL	Dil	Method
Sulfate-S	11.5U ~~10.8~~	~~J~~ ✓	mg/Kg	2.2	11.5	1.0	300.0
	Anly Batch: 220-11366	Date Analyzed	11/22/2007 0429			DryWt Corrected: Y	

Analyte	Result	Qual	Units	RL	RL	Dil	Method
Percent Moisture	13.0		%	0.100	0.100	1.0	PercentMoisture
	Anly Batch: 220-11188	Date Analyzed	11/17/2007 1602				
Percent Solids	87.0		%	0.100	0.100	1.0	PercentMoisture
	Anly Batch: 220-11188	Date Analyzed	11/17/2007 1602				

Client Sample ID: EHS-GP-01(4-5)

Lab Sample ID: 220-3395-2
Client Matrix: Solid

% Moisture: 26.0

Date Sampled: 11/13/2007 1028
Date Received: 11/15/2007 1634

Analyte	Result	Qual	Units	MDL	RL	Dil	Method
Sulfate-S	20.5 U ✓		mg/Kg	2.6	13.5	1.0	300.0
	Anly Batch: 220-11366	Date Analyzed	11/22/2007 0509			DryWt Corrected: Y	

Analyte	Result	Qual	Units	RL	RL	Dil	Method
Percent Moisture	26.0		%	0.100	0.100	1.0	PercentMoisture
	Anly Batch: 220-11188	Date Analyzed	11/17/2007 1602				
Percent Solids	74.0		%	0.100	0.100	1.0	PercentMoisture
	Anly Batch: 220-11188	Date Analyzed	11/17/2007 1602				

Jam 1/2/08

DB 1/8/08

General Chemistry

Client Sample ID: EHS-GP-01(44-45)

Lab Sample ID: 220-3395-3
Client Matrix: Solid

% Moisture: 6.5

Date Sampled: 11/13/2007 1517
Date Received: 11/15/2007 1634

Analyte	Result	Qual	Units	MDL	RL	Dil	Method
Sulfate-S	10.7 U ~~5.5~~	~~J~~	mg/Kg	2.0	10.7	1.0	300.0

Anly Batch: 220-11366 Date Analyzed 11/22/2007 0522 DryWt Corrected: Y

Analyte	Result	Qual	Units	RL	RL	Dil	Method
Percent Moisture	6.50		%	0.100	0.100	1.0	PercentMoisture

Anly Batch: 220-11188 Date Analyzed 11/17/2007 1602

Analyte	Result	Qual	Units	RL	RL	Dil	Method
Percent Solids	93.5		%	0.100	0.100	1.0	PercentMoisture

Anly Batch: 220-11188 Date Analyzed 11/17/2007 1602

Client Sample ID: EHS-GP-03(4-5)

Lab Sample ID: 220-3395-4
Client Matrix: Solid

% Moisture: 30.3

Date Sampled: 11/13/2007 1400
Date Received: 11/15/2007 1634

Analyte	Result	Qual	Units	MDL	RL	Dil	Method
Sulfate-S	14.2 U ~~13.9~~	~~J~~	mg/Kg	2.7	14.2	1.0	300.0

Anly Batch: 220-11366 Date Analyzed 11/22/2007 0602 DryWt Corrected: Y

Analyte	Result	Qual	Units	RL	RL	Dil	Method
Percent Moisture	30.3		%	0.100	0.100	1.0	PercentMoisture

Anly Batch: 220-11188 Date Analyzed 11/17/2007 1602

Analyte	Result	Qual	Units	RL	RL	Dil	Method
Percent Solids	69.7		%	0.100	0.100	1.0	PercentMoisture

Anly Batch: 220-11188 Date Analyzed 11/17/2007 1602

1/2/08

DG 1/18/08

General Chemistry

Client Sample ID: EHS-GP-04(4-5)

Lab Sample ID: 220-3395-5
Client Matrix: Solid

% Moisture: 31.9

Date Sampled: 11/13/2007 1450
Date Received: 11/15/2007 1634

Analyte	Result	Qual	Units	MDL	RL	Dil	Method
Sulfate-S	19.9 U	✓	mg/Kg	2.8	14.6	1.0	300.0

Anly Batch: 220-11366 Date Analyzed 11/22/2007 0615 DryWt Corrected: Y

Analyte	Result	Qual	Units	RL	RL	Dil	Method
Percent Moisture	31.9		%	0.100	0.100	1.0	PercentMoisture

Anly Batch: 220-11188 Date Analyzed 11/17/2007 1602

Analyte	Result	Qual	Units	RL	RL	Dil	Method
Percent Solids	68.1		%	0.100	0.100	1.0	PercentMoisture

Anly Batch: 220-11188 Date Analyzed 11/17/2007 1602

Client Sample ID: EHS-GP-XX(XX) Duplicate of EHS-GP-02(4-5)

Lab Sample ID: 220-3395-6
Client Matrix: Solid

% Moisture: 25.9

Date Sampled: 11/13/2007 0000
Date Received: 11/15/2007 1634

Analyte	Result	Qual	Units	MDL	RL	Dil	Method
Sulfate-S	17.8 U	✓	mg/Kg	2.6	13.5	1.0	300.0

Anly Batch: 220-11366 Date Analyzed 11/22/2007 0629 DryWt Corrected: Y

Analyte	Result	Qual	Units	RL	RL	Dil	Method
Percent Moisture	25.9		%	0.100	0.100	1.0	PercentMoisture

Anly Batch: 220-11188 Date Analyzed 11/17/2007 1602

Analyte	Result	Qual	Units	RL	RL	Dil	Method
Percent Solids	74.1		%	0.100	0.100	1.0	PercentMoisture

Anly Batch: 220-11188 Date Analyzed 11/17/2007 1602

DB 1/8/08

Jam 1/2/08

General Chemistry

Client Sample ID: EHS-GP-05 (44-45)

Lab Sample ID: 220-3404-3
Client Matrix: Solid

% Moisture: 12.6

Date Sampled: 11/16/2007 1400
Date Received: 11/16/2007 2100

Analyte	Result	Qual	Units	MDL	RL	Dil	Method
Sulfate-S	11.4U ~~7.1~~ ✓	~~J~~	mg/Kg	2.2	11.4	1.0	300.0

Anly Batch: 220-11366 Date Analyzed 11/22/2007 0922 DryWt Corrected: Y

Analyte	Result	Qual	Units	RL	RL	Dil	Method
Percent Moisture	12.6		%	0.100	0.100	1.0	PercentMoisture

Anly Batch: 220-11218 Date Analyzed 11/19/2007 1604

Analyte	Result	Qual	Units	RL	RL	Dil	Method
Percent Solids	87.4		%	0.100	0.100	1.0	PercentMoisture

Anly Batch: 220-11218 Date Analyzed 11/19/2007 1604

Client Sample ID: EHS-GP-02 (43-45)

Lab Sample ID: 220-3404-5
Client Matrix: Solid

% Moisture: 6.0

Date Sampled: 11/15/2007 1025
Date Received: 11/16/2007 2100

Analyte	Result	Qual	Units	MDL	RL	Dil	Method
Sulfate-S	10.6U ~~6.0~~ ✓	~~J~~	mg/Kg	2.0	10.6	1.0	300.0

Anly Batch: 220-11366 Date Analyzed 11/22/2007 0935 DryWt Corrected: Y

Analyte	Result	Qual	Units	RL	RL	Dil	Method
Percent Moisture	6.01		%	0.100	0.100	1.0	PercentMoisture

Anly Batch: 220-11218 Date Analyzed 11/19/2007 1604

Analyte	Result	Qual	Units	RL	RL	Dil	Method
Percent Solids	94.0		%	0.100	0.100	1.0	PercentMoisture

Anly Batch: 220-11218 Date Analyzed 11/19/2007 1604

DB 11/8/08

Jam 1/2/08

General Chemistry

Client Sample ID: EHS-GP-04 (44-45)

Lab Sample ID: 220-3404-1
Client Matrix: Solid

% Moisture: 6.6

Date Sampled: 11/16/2007 1040
Date Received: 11/16/2007 2100

Analyte	Result	Qual	Units	MDL	RL	Dil	Method
Sulfate-S	10.7U ~~6.0~~	~~J~~	mg/Kg	2.0	10.7	1.0	300.0
	Anly Batch: 220-11366	Date Analyzed	11/22/2007 0855			DryWt Corrected: Y	

Analyte	Result	Qual	Units	RL	RL	Dil	Method
Percent Moisture	6.61		%	0.100	0.100	1.0	PercentMoisture
	Anly Batch: 220-11218	Date Analyzed	11/19/2007 1604				
Percent Solids	93.4		%	0.100	0.100	1.0	PercentMoisture
	Anly Batch: 220-11218	Date Analyzed	11/19/2007 1604				

Client Sample ID: EHS-GP-05 (4-5)

Lab Sample ID: 220-3404-2
Client Matrix: Solid

% Moisture: 28.2

Date Sampled: 11/16/2007 1220
Date Received: 11/16/2007 2100

Analyte	Result	Qual	Units	MDL	RL	Dil	Method
Sulfate-S	38.1		mg/Kg	2.6	13.8	1.0	300.0
	Anly Batch: 220-11366	Date Analyzed	11/22/2007 0908			DryWt Corrected: Y	

Analyte	Result	Qual	Units	RL	RL	Dil	Method
Percent Moisture	28.2		%	0.100	0.100	1.0	PercentMoisture
	Anly Batch: 220-11218	Date Analyzed	11/19/2007 1604				
Percent Solids	71.8		%	0.100	0.100	1.0	PercentMoisture
	Anly Batch: 220-11218	Date Analyzed	11/19/2007 1604				

General Chemistry

Client Sample ID: EHS-SS-06

Lab Sample ID: 220-3395-13
Client Matrix: Solid

% Moisture: 8.4

Date Sampled: 11/14/2007 1335
Date Received: 11/15/2007 1634

Analyte	Result	Qual	Units	MDL	RL	Dil	Method
Sulfate-S	10.9 U ~~6.9~~	~~J~~	mg/Kg	2.1	10.9	1.0	300.0

Anly Batch: 220-11366 Date Analyzed 11/23/2007 1838 DryWt Corrected: Y

Analyte	Result	Qual	Units	RL	RL	Dil	Method
Percent Moisture	8.36		%	0.100	0.100	1.0	PercentMoisture

Anly Batch: 220-11188 Date Analyzed 11/17/2007 1602

Analyte	Result	Qual	Units	RL	RL	Dil	Method
Percent Solids	91.6		%	0.100	0.100	1.0	PercentMoisture

Anly Batch: 220-11188 Date Analyzed 11/17/2007 1602

Client Sample ID: EHS-GP-03(44-45)

Lab Sample ID: 220-3395-14
Client Matrix: Solid

% Moisture: 3.1

Date Sampled: 11/14/2007 1324
Date Received: 11/15/2007 1634

Analyte	Result	Qual	Units	MDL	RL	Dil	Method
Sulfate-S	10.3 U ~~9.2~~	~~J~~	mg/Kg	2.0	10.3	1.0	300.0

Anly Batch: 220-11366 Date Analyzed 11/22/2007 0842 DryWt Corrected: Y

Analyte	Result	Qual	Units	RL	RL	Dil	Method
Percent Moisture	3.10		%	0.100	0.100	1.0	PercentMoisture

Anly Batch: 220-11188 Date Analyzed 11/17/2007 1602

Analyte	Result	Qual	Units	RL	RL	Dil	Method
Percent Solids	96.9		%	0.100	0.100	1.0	PercentMoisture

Anly Batch: 220-11188 Date Analyzed 11/17/2007 1602

DB 1/2/08

Jam 1/2/08

Client: GEI Consultants, Inc.

Job Number: 220-3395-1
Sdg Number: 220-3395

Client Sample ID: **EHS-SS-01**

Lab Sample ID: 220-3395-7
Client Matrix: Solid

% Moisture: 19.4

Date Sampled: 11/14/2007 0835
Date Received: 11/15/2007 1634

8260B Volatile Organic Compounds by GC/MS

Method: 8260B
Preparation: 5030B
Dilution: 1.0
Date Analyzed: 11/25/2007 1737
Date Prepared: 11/25/2007 1737

Analysis Batch: 220-11327

Instrument ID: HP 5890/5971A GC/MS
Lab File ID: N6105.D
Initial Weight/Volume: 5 g
Final Weight/Volume: 5 mL

Analyte	DryWt Corrected: Y	Result (ug/Kg)	Qualifier	MDL	RL
Acetone		25	U UJ	2.9	25
Benzene		6.2	U UJ	0.88	6.2
Bromodichloromethane		6.2	U UJ	0.81	6.2
Bromoform		6.2	U UJ	2.1	6.2
Bromomethane		6.2	U UJ	1.9	6.2
Methyl Ethyl Ketone		12	U UJ	4.2	12
Carbon disulfide		6.2	U UJ	0.66	6.2
Carbon tetrachloride		6.2	U UJ	0.88	6.2
Chlorobenzene		6.2	U UJ	1.1	6.2
Chloroethane		6.2	U UJ	1.6	6.2
Chloroform		6.2	U UJ	0.66	6.2
Chloromethane		6.2	U UJ	1.3	6.2
Dibromochloromethane		6.2	U UJ	1.3	6.2
1,1-Dichloroethane		6.2	U UJ	0.81	6.2
1,2-Dichloroethane		6.2	U UJ	1.3	6.2
1,1-Dichloroethene		6.2	U UJ	0.98	6.2
1,2-Dichloropropane		6.2	U UJ	1.2	6.2
cis-1,3-Dichloropropene		6.2	U UJ	0.77	6.2
trans-1,3-Dichloropropene		6.2	U UJ	1.3	6.2
Ethylbenzene		6.2	U UJ	0.88	6.2
2-Hexanone		12	U UJ	3.3	12
Methylene Chloride	✓25U	~~8.7~~	U UJ	1.7	25
methyl isobutyl ketone		6.2	U UJ	1.2	6.2
Styrene		6.2	U UJ	1.6	6.2
1,1,2,2-Tetrachloroethane		6.2	U UJ	1.3	6.2
Tetrachloroethene		6.2	U UJ	0.92	6.2
Toluene		6.2	U UJ	0.73	6.2
1,1,1-Trichloroethane		6.2	U UJ	0.91	6.2
1,1,2-Trichloroethane		6.2	U UJ	1.1	6.2
Trichloroethene		6.2	U UJ	1.2	6.2
Vinyl chloride		6.2	U UJ	1.6	6.2
Xylenes, Total		6.2	U UJ	3.0	6.2
cis-1,2-Dichloroethene		6.2	U UJ	1.1	6.2
trans-1,2-Dichloroethene		6.2	U UJ	1.2	6.2

Surrogate	%Rec	Acceptance Limits
1,2-Dichloroethane-d4 (Surr)	67	49 - 134
4-Bromofluorobenzene	43	36 - 133
Dibromofluoromethane	68	60 - 130
Toluene-d8 (Surr)	49 *	51 - 137

DB 1/8/08 EHM 1/9/08

Client: GEI Consultants, Inc.

Job Number: 220-3395-1
Sdg Number: 220-3395

Client Sample ID: EHS-SS-01

Lab Sample ID: 220-3395-7
Client Matrix: Solid
% Moisture: 19.4

Date Sampled: 11/14/2007 0835
Date Received: 11/15/2007 1634

8270C Semivolatile Compounds by Gas Chromatography/Mass Spectrometry (GC/MS)

Method: 8270C
Preparation: 3541
Dilution: 1.0
Date Analyzed: 11/29/2007 2141
Date Prepared: 11/27/2007 0953

Analysis Batch: 220-11486
Prep Batch: 220-11378

Instrument ID: HP 6890/5973 GC/MS
Lab File ID: U2186.D
Initial Weight/Volume: 15.25 g
Final Weight/Volume: 1 mL
Injection Volume: 1 uL

Analyte	DryWt Corrected: Y	Result (ug/Kg)	Qualifier	MDL	RL
Acenaphthene		400	U	70	400
Acenaphthylene		400	U	77	400
Anthracene		67	J J ✓	65	400
Benzo[a]anthracene		300	J J ✓	59	400
Benzo[a]pyrene		290	J J ✓	52	400
Benzo[b]fluoranthene		380	J ✓	69	400
Benzo[g,h,i]perylene		290	J J ✓	79	400
Benzo[k]fluoranthene		130	J J ✓	66	400
Bis(2-chloroethoxy)methane		400	U	65	400
Bis(2-chloroethyl)ether		400	U	200	400
Bis(2-ethylhexyl) phthalate		400	U	52	400
Butyl benzyl phthalate		400	U	57	400
Carbazole		400	U	68	400
Chrysene		450		71	400
Di-n-butyl phthalate		400	U	62	400
Di-n-octyl phthalate		400	U	64	400
4-Bromophenyl phenyl ether		400	U	65	400
4-Chloroaniline		400	U	54	400
2-Chloronaphthalene		400	U	70	400
4-Chlorophenyl phenyl ether		400	U	79	400
Dibenz(a,h)anthracene		76	J J ✓	61	400
Dibenzofuran		400	U	71	400
Diethyl phthalate		400	U	100	400
Dimethyl phthalate		400	U	71	400
1,2-Dichlorobenzene		400	U	64	400
1,3-Dichlorobenzene		400	U	65	400
1,4-Dichlorobenzene		400	U	63	400
3,3'-Dichlorobenzidine		810	U	45	810
2,4-Dinitrotoluene		400	U	61	400
2,6-Dinitrotoluene		400	U	160	400
Fluoranthene		560		67	400
Fluorene		400	U	69	400
Hexachlorobenzene		400	U	69	400
Hexachlorobutadiene		400	U	77	400
Hexachlorocyclopentadiene		400	U	57	400
Hexachloroethane		400	U	70	400
Indeno[1,2,3-cd]pyrene		290	J J ✓	71	400
Isophorone		400	U	83	400
2-Methylnaphthalene		400	U	74	400
Naphthalene		400	U	61	400
2-Nitroaniline		2000	U	54	2000
3-Nitroaniline		2000	U	57	2000
Nitrobenzene		400	U	74	400
N-Nitrosodi-n-propylamine		400	U	90	400

PB 1/18/08 EMM 1/18/08

Client: GEI Consultants, Inc.

Job Number: 220-3395-1
Sdg Number: 220-3395

Client Sample ID: EHS-SS-01

Lab Sample ID: 220-3395-7
Client Matrix: Solid
% Moisture: 19.4

Date Sampled: 11/14/2007 0835
Date Received: 11/15/2007 1634

8270C Semivolatile Compounds by Gas Chromatography/Mass Spectrometry (GC/MS)

Method: 8270C
Preparation: 3541
Dilution: 1.0
Date Analyzed: 11/29/2007 2141
Date Prepared: 11/27/2007 0953

Analysis Batch: 220-11486
Prep Batch: 220-11378

Instrument ID: HP 6890/5973 GC/MS
Lab File ID: U2186.D
Initial Weight/Volume: 15.25 g
Final Weight/Volume: 1 mL
Injection Volume: 1 uL

Analyte	DryWt Corrected: Y	Result (ug/Kg)	Qualifier	MDL	RL
N-Nitrosodiphenylamine		400	U	73	400
Phenanthrene		400		66	400
Pyrene		630		59	400
1,2,4-Trichlorobenzene		400	U	64	400
4-Chloro-3-methylphenol		400	U	80	400
2-Chlorophenol		400	U	87	400
2-Methylphenol		400	U	64	400
4-Methylphenol		400	U	60	400
2,4-Dichlorophenol		400	U	84	400
2,4-Dimethylphenol		400	U	54	400
2,4-Dinitrophenol		2000	U	260	2000
4,6-Dinitro-2-methylphenol		2000	U	310	2000
2-Nitrophenol		400	U	87	400
4-Nitrophenol		2000	U	180	2000
Pentachlorophenol		2000	U	28	2000
Phenol		400	U	48	400
2,4,5-Trichlorophenol		2000	U	61	2000
2,4,6-Trichlorophenol		400	U	59	400
Benzyl alcohol		400	U	84	400
4-Nitroaniline		810	U	61	810
2,2'-oxybis[1-chloropropane]		400	U	65	400

Surrogate	%Rec	Acceptance Limits
2-Fluorobiphenyl	81	32 - 131
2-Fluorophenol	74	25 - 113
2,4,6-Tribromophenol	87	24 - 150
Nitrobenzene-d5	69	25 - 120
Phenol-d5	82	27 - 122
Terphenyl-d14	101	35 - 140

DB 11/8/08 EHM 11/10/08

Client: GEI Consultants, Inc.

Job Number: 220-3395-1
Sdg Number: 220-3395

Client Sample ID: EHS-SS-01

Lab Sample ID: 220-3395-7
Client Matrix: Solid

% Moisture: 19.4

Date Sampled: 11/14/2007 0835
Date Received: 11/15/2007 1634

6010B Inductively Coupled Plasma - Atomic Emission Spectrometry

Method: 6010B
Preparation: 3050B
Dilution: 1.0
Date Analyzed: 11/21/2007 1601
Date Prepared: 11/19/2007 1407

Analysis Batch: 220-11308
Prep Batch: 220-11213

Instrument ID: TJA Trace ICAP
Lab File ID: W112107
Initial Weight/Volume: 1.10 g
Final Weight/Volume: 250 mL

Analyte	DryWt Corrected: Y	Result (mg/Kg)	Qualifier	MDL	RL
Silver		4.2	U	0.42	4.2
Aluminum		8240		13.0	141
Arsenic		19.4		1.9	11.3
Barium		30.5	J	0.31	2.8
Beryllium		2.8	U	0.65	2.8
Calcium		1670		17.5	282
Cadmium		7.1	U	1.3	7.1
Cobalt		4.0	J	0.73	2.8
Chromium		15.2		0.48	4.2
Copper		54.8		0.62	7.1
Iron		12000		13.8	84.6
Potassium		434	J	33.9	282
Magnesium		1560	J	8.7	49.4
Manganese		114		0.93	8.5
Sodium		175	J	26.8	282
Nickel		6.8	J	0.62	7.1
Lead		40.0		1.2	7.1
Antimony		14.1	UJ	1.9	14.1
Selenium		14.1	U	2.3	14.1
Thallium		21.2	U	3.1	21.2
Vanadium		23.9		0.45	5.6
Zinc		50.8		3.1	28.2

7471A Mercury in Solid or Semisolid Waste (Manual Cold Vapor Technique)

Method: 7471A
Preparation: 7471A
Dilution: 1.0
Date Analyzed: 11/21/2007 0954
Date Prepared: 11/20/2007 1555

Analysis Batch: 220-11278
Prep Batch: 220-11264

Instrument ID: Perkin Elmer FIMS
Lab File ID: N/A
Initial Weight/Volume: 0.67 g
Final Weight/Volume: 50 mL

Analyte	DryWt Corrected: Y	Result (mg/Kg)	Qualifier	MDL	RL
Mercury		0.11		0.014	0.056

DG 1/18/08

1/2/08

Client: GEI Consultants, Inc.

Job Number: 220-3395-1
Sdg Number: 220-3395

Client Sample ID: EHS-SS-01

Lab Sample ID: 220-3395-7
Client Matrix: Solid

% Moisture: 19.4

Date Sampled: 11/14/2007 0835
Date Received: 11/15/2007 1634

8081A Organochlorine Pesticides by Gas Chromatography

Method: 8081A
Preparation: 3550B
Dilution: 5.0
Date Analyzed: 12/03/2007 1838
Date Prepared: 11/27/2007 1227

Analysis Batch: 220-11521
Prep Batch: 220-11392

Instrument ID: HP 5890 with dual ECD
Lab File ID: C7507055.D
Initial Weight/Volume: 30.75 g
Final Weight/Volume: 10.0 mL
Injection Volume: 1 uL
Column ID: PRIMARY

DryWt Corrected: Y

Analyte	Result (ug/Kg)	Qualifier	MDL	RL
4,4'-DDD	2.5 J ✓	~~J~~	2.3	20
4,4'-DDE	85	~~M~~	2.6	20
4,4'-DDT	86 J ✓	~~M~~	1.9	20
Aldrin	12	U	2.2	12
alpha-BHC	10	U	1.7	10
beta-BHC	10	U	1.6	10
delta-BHC	10	U	0.62	10
Dieldrin	~~2.3~~ 20U ✓	~~J~~	1.9	20
Endosulfan I	10	U	0.89	10
Endosulfan II	~~2.6~~ 20U ✓	~~J~~	1.0	20
Endosulfan sulfate	~~3.8~~ 20U ✓	~~J M~~	1.0	20
Endrin	30	U	5.4	30
Endrin aldehyde	20	U	2.0	20
Endrin ketone	20	U	0.87	20
gamma-BHC (Lindane)	10	U	0.92	10
Heptachlor	10	U	0.91	10
Heptachlor epoxide	1.3	~~J~~ ✓	0.69	10
Methoxychlor	100	U	13	100
Toxaphene	410	U	11	410
alpha-Chlordane	10	U	0.67	10
gamma-Chlordane	~~2.2~~ 10U ✓	~~J~~	0.55	10

Surrogate	%Rec	Acceptance Limits
DCB Decachlorobiphenyl	121	25 - 159
Tetrachloro-m-xylene	108	24 - 154

Method: 8081A
Preparation: 3550B
Dilution: 5.0
Date Analyzed: 12/03/2007 1838
Date Prepared: 11/27/2007 1227

Analysis Batch: 220-11521
Prep Batch: 220-11392

Instrument ID: HP 5890 with dual ECD
Lab File ID: C7507055.D
Initial Weight/Volume: 30.75 g
Final Weight/Volume: 10.0 mL
Injection Volume: 1 uL
Column ID: SECONDARY

Surrogate	%Rec	Acceptance Limits
DCB Decachlorobiphenyl	109	25 - 159
Tetrachloro-m-xylene	95	24 - 154

DF 11/18/08

1/11/08

Client: GEI Consultants, Inc.

Job Number: 220-3395-1
Sdg Number: 220-3395

Client Sample ID: EHS-SS-01

Lab Sample ID: 220-3395-7
Client Matrix: Solid
% Moisture: 19.4
Date Sampled: 11/14/2007 0835
Date Received: 11/15/2007 1634

8082 Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Method: 8082
Preparation: 3550B
Dilution: 1.0
Date Analyzed: 11/30/2007 0005
Date Prepared: 11/27/2007 1227
Analysis Batch: 220-11497
Prep Batch: 220-11392
Instrument ID: HP 5890 with dual ECD
Lab File ID: D4663125.d
Initial Weight/Volume: 30.75 g
Final Weight/Volume: 10.0 mL
Injection Volume: 1 uL
Column ID: PRIMARY

Analyte	DryWt Corrected: Y	Result (ug/Kg)	Qualifier	MDL	RL
PCB-1016		21	U	3.4	21
PCB-1221		40	U	1.9	40
PCB-1232		21	U	2.3	21
PCB-1242		21	U	3.6	21
PCB-1248		21	U	3.3	21
PCB-1254		21	U	1.5	21
PCB-1260		21	U	4.8	21

Surrogate	%Rec	Acceptance Limits
Tetrachloro-m-xylene	77	24 - 154
DCB Decachlorobiphenyl	92	25 - 159

DP 1/18/08
dam 12/31/07

TestAmerica Connecticut

Client Sample ID: EHS-SS-01

GC Semivolatiles

Lot-Sample #...: A7K170204-007	Work Order #...: KCH5Q1AC	Matrix.....: SO	
Date Sampled...: 11/13/07 08:35	Date Received..: 11/17/07		
Prep Date.....: 11/26/07	Analysis Date..: 11/27/07		
Prep Batch #...: 7330014			
Dilution Factor: 1	Initial Wgt/Vol: 50.04 g	Final Wgt/Vol..: 100 mL	
% Moisture.....: 21	Method.....: SW846 8151A		

PARAMETER	RESULT	REPORTING LIMIT	UNITS	MDL
2,4-D	ND	100	ug/kg	46
2,4,5-TP	ND	25	ug/kg	2.8
2,4,5-T	ND	25	ug/kg	4.1

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
2,4-Dichlorophenylacetic acid	74	(19 - 122)

NOTE(S):

Results and reporting limits have been adjusted for dry weight.

DG 11/18/08

EHM 11/10/08

TestAmerica Connecticut

Client Sample ID: EHS-SS-01

General Chemistry

Lot-Sample #...: A7K170204-007 Work Order #...: KCH5Q Matrix.....: SO
Date Sampled...: 11/13/07 08:35 Date Received..: 11/17/07
% Moisture.....: 21

PARAMETER	RESULT	RL	UNITS	METHOD	PREPARATION-ANALYSIS DATE	PREP BATCH #
Acid-soluble sulfide	ND UJ	38.1	mg/kg	SW846 9030B/9034	11/19/07	7323421
		Dilution Factor: 1		MDL.....: 7.1		
Percent Solids	78.8	10.0	%	MCAWW 160.3 MOD	11/26-11/27/07	7330572
		Dilution Factor: 1		MDL.....: 10.0		

NOTE(S):

RL Reporting Limit

Results and reporting limits have been adjusted for dry weight.

Jam 1/4/08

Client: GEI Consultants, Inc.

Job Number: 220-3395-1
Sdg Number: 220-3395

Client Sample ID: EHS-SS-02

Lab Sample ID: 220-3395-9
Client Matrix: Solid

% Moisture: 19.6

Date Sampled: 11/14/2007 1052
Date Received: 11/15/2007 1634

8260B Volatile Organic Compounds by GC/MS

Method: 8260B
Preparation: 5030B
Dilution: 1.0
Date Analyzed: 11/26/2007 1527
Date Prepared: 11/26/2007 1527

Analysis Batch: 220-11399

Instrument ID: HP 5890/5971A GC/MS
Lab File ID: N6132.D
Initial Weight/Volume: 5 g
Final Weight/Volume: 5 mL

Analyte	DryWt Corrected: Y	Result (ug/Kg)	Qualifier	MDL	RL
Acetone	✓ 25U	~~7.9~~	~~J B~~	2.9	25
Benzene		6.2	U	0.88	6.2
Bromodichloromethane		6.2	U	0.81	6.2
Bromoform		6.2	U	2.2	6.2
Bromomethane		6.2	U	1.9	6.2
Methyl Ethyl Ketone		12	U	4.2	12
Carbon disulfide		6.2	U	0.66	6.2
Carbon tetrachloride		6.2	U	0.88	6.2
Chlorobenzene		6.2	U	1.1	6.2
Chloroethane		6.2	U	1.6	6.2
Chloroform		6.2	U	0.66	6.2
Chloromethane		6.2	U	1.3	6.2
Dibromochloromethane		6.2	U	1.3	6.2
1,1-Dichloroethane		6.2	U	0.81	6.2
1,2-Dichloroethane		6.2	U	1.3	6.2
1,1-Dichloroethene		6.2	U	0.98	6.2
1,2-Dichloropropane		6.2	U	1.2	6.2
cis-1,3-Dichloropropene		6.2	U	0.77	6.2
trans-1,3-Dichloropropene		6.2	U	1.3	6.2
Ethylbenzene		6.2	U	0.88	6.2
2-Hexanone		12	U	3.3	12
Methylene Chloride	✓ 25U	~~2.2~~	~~J~~	1.7	25
methyl isobutyl ketone		6.2	U	1.2	6.2
Styrene		6.2	U ✓ UJ ✓	1.6	6.2
1,1,2,2-Tetrachloroethane		6.2	U	1.3	6.2
Tetrachloroethene		6.2	U	0.92	6.2
Toluene		6.2	U	0.73	6.2
1,1,1-Trichloroethane		6.2	U	0.91	6.2
1,1,2-Trichloroethane		6.2	U	1.1	6.2
Trichloroethene		6.2	U	1.2	6.2
Vinyl chloride		6.2	U	1.6	6.2
Xylenes, Total		6.2	U	3.0	6.2
cis-1,2-Dichloroethene		6.2	U	1.1	6.2
trans-1,2-Dichloroethene		6.2	U	1.2	6.2

Surrogate	%Rec	Acceptance Limits
1,2-Dichloroethane-d4 (Surr)	78	49 - 134
4-Bromofluorobenzene	62	36 - 133
Dibromofluoromethane	73	60 - 130
Toluene-d8 (Surr)	67	51 - 137

DB 11/18/08

EMH 11/9/08

Client: GEI Consultants, Inc.

Job Number: 220-3395-1
Sdg Number: 220-3395

Client Sample ID: **EHS-SS-02**

Lab Sample ID: 220-3395-9
Client Matrix: Solid
% Moisture: 19.6
Date Sampled: 11/14/2007 1052
Date Received: 11/15/2007 1634

8270C Semivolatile Compounds by Gas Chromatography/Mass Spectrometry (GC/MS)

Method: 8270C
Preparation: 3541
Dilution: 1.0
Date Analyzed: 11/29/2007 2228
Date Prepared: 11/27/2007 0953
Analysis Batch: 220-11486
Prep Batch: 220-11378
Instrument ID: HP 6890/5973 GC/MS
Lab File ID: U2188.D
Initial Weight/Volume: 15.10 g
Final Weight/Volume: 1 mL
Injection Volume: 1 uL

Analyte	DryWt Corrected: Y	Result (ug/Kg)	Qualifier	MDL	RL
Acenaphthene		410	U	71	410
Acenaphthylene		410	U	78	410
Anthracene		410	U M	66	410
Benzo[a]anthracene		280	J J	59	410
Benzo[a]pyrene		290	J J	52	410
Benzo[b]fluoranthene		370	J	70	410
Benzo[g,h,i]perylene		170	J J	80	410
Benzo[k]fluoranthene		140	J J	67	410
Bis(2-chloroethoxy)methane		410	U	66	410
Bis(2-chloroethyl)ether		410	U	200	410
Bis(2-ethylhexyl) phthalate		56	J J	52	410
Butyl benzyl phthalate		410	U	57	410
Carbazole		410	U	69	410
Chrysene		350	J	72	410
Di-n-butyl phthalate		410	U	63	410
Di-n-octyl phthalate		410	U	64	410
4-Bromophenyl phenyl ether		410	U	66	410
4-Chloroaniline		410	U	54	410
2-Chloronaphthalene		410	U	71	410
4-Chlorophenyl phenyl ether		410	U	80	410
Dibenz(a,h)anthracene		410	U	62	410
Dibenzofuran		410	U	71	410
Diethyl phthalate		410	U	100	410
Dimethyl phthalate		410	U	72	410
1,2-Dichlorobenzene		410	U	64	410
1,3-Dichlorobenzene		410	U	66	410
1,4-Dichlorobenzene		410	U	64	410
3,3'-Dichlorobenzidine		820	U	45	820
2,4-Dinitrotoluene		410	U	62	410
2,6-Dinitrotoluene		410	U	160	410
Fluoranthene		450		68	410
Fluorene		410	U	69	410
Hexachlorobenzene		410	U	70	410
Hexachlorobutadiene		410	U	78	410
Hexachlorocyclopentadiene		410	U	58	410
Hexachloroethane		410	U	71	410
Indeno[1,2,3-cd]pyrene		190	J J	72	410
Isophorone		410	U	84	410
2-Methylnaphthalene		410	U	75	410
Naphthalene		410	U	62	410
2-Nitroaniline		2000	U	55	2000
3-Nitroaniline		2000	U	58	2000
Nitrobenzene		410	U	75	410
N-Nitrosodi-n-propylamine		410	U	91	410

DS 11/26/08 EMM 11/10/08

Client: GEI Consultants, Inc.

Job Number: 220-3395-1
Sdg Number: 220-3395

Client Sample ID: EHS-SS-02

Lab Sample ID: 220-3395-9
Client Matrix: Solid
% Moisture: 19.6
Date Sampled: 11/14/2007 1052
Date Received: 11/15/2007 1634

8270C Semivolatile Compounds by Gas Chromatography/Mass Spectrometry (GC/MS)

Method: 8270C
Preparation: 3541
Dilution: 1.0
Date Analyzed: 11/29/2007 2228
Date Prepared: 11/27/2007 0953
Analysis Batch: 220-11486
Prep Batch: 220-11378
Instrument ID: HP 6890/5973 GC/MS
Lab File ID: U2188.D
Initial Weight/Volume: 15.10 g
Final Weight/Volume: 1 mL
Injection Volume: 1 uL

Analyte	DryWt Corrected: Y	Result (ug/Kg)	Qualifier	MDL	RL
N-Nitrosodiphenylamine		410	U	73	410
Phenanthrene		210	J J	67	410
Pyrene		400	J	60	410
1,2,4-Trichlorobenzene		410	U	65	410
4-Chloro-3-methylphenol		410	U	81	410
2-Chlorophenol		410	U	88	410
2-Methylphenol		410	U	64	410
4-Methylphenol		410	U	61	410
2,4-Dichlorophenol		410	U	85	410
2,4-Dimethylphenol		410	U	55	410
2,4-Dinitrophenol		2000	U	270	2000
4,6-Dinitro-2-methylphenol		2000	U	320	2000
2-Nitrophenol		410	U	88	410
4-Nitrophenol		2000	U	180	2000
Pentachlorophenol		2000	U	29	2000
Phenol		410	U	49	410
2,4,5-Trichlorophenol		2000	U	62	2000
2,4,6-Trichlorophenol		410	U	60	410
Benzyl alcohol		410	U	85	410
4-Nitroaniline		820	U	61	820
2,2'-oxybis[1-chloropropane]		410	U	66	410

Surrogate	%Rec	Acceptance Limits
2-Fluorobiphenyl	93	32 - 131
2-Fluorophenol	84	25 - 113
2,4,6-Tribromophenol	85	24 - 150
Nitrobenzene-d5	83	25 - 120
Phenol-d5	90	27 - 122
Terphenyl-d14	85	35 - 140

DG 1/18/08 ERM 1/10/08

Analytical Data

Client: GEI Consultants, Inc.

Job Number: 220-3395-1
Sdg Number: 220-3395

Client Sample ID: EHS-SS-02

Lab Sample ID: 220-3395-9
Client Matrix: Solid

% Moisture: 19.6

Date Sampled: 11/14/2007 1052
Date Received: 11/15/2007 1634

6010B Inductively Coupled Plasma - Atomic Emission Spectrometry

Method: 6010B
Preparation: 3050B
Dilution: 1.0
Date Analyzed: 11/21/2007 1610
Date Prepared: 11/19/2007 1407

Analysis Batch: 220-11308
Prep Batch: 220-11213

Instrument ID: TJA Trace ICAP
Lab File ID: W112107
Initial Weight/Volume: 1.13 g
Final Weight/Volume: 250 mL

Analyte	DryWt Corrected: Y	Result (mg/Kg)	Qualifier	MDL	RL
Silver		4.1	U	0.41	4.1
Aluminum		4510		12.7	138
Arsenic		4.5	J	1.9	11.0
Barium		29.1	J	0.30	2.8
Beryllium		2.8	U	0.63	2.8
Calcium		2180		17.1	275
Cadmium		6.9	U	1.3	6.9
Cobalt		2.4	J	0.72	2.8
Chromium		9.9		0.47	4.1
Copper		17.9		0.61	6.9
Iron		7560		13.5	82.5
Potassium		396	J	33.0	275
Magnesium		1030	J	8.5	48.1
Manganese		104		0.91	8.3
Sodium		80.9	J	26.1	275
Nickel		4.8	J	0.61	6.9
Lead		36.0		1.2	6.9
Antimony		13.8	UJ	1.9	13.8
Selenium		13.8	U	2.3	13.8
Thallium		20.6	U	3.0	20.6
Vanadium		15.5		0.44	5.5
Zinc		56.9		3.0	27.5

7471A Mercury in Solid or Semisolid Waste (Manual Cold Vapor Technique)

Method: 7471A
Preparation: 7471A
Dilution: 1.0
Date Analyzed: 11/21/2007 0956
Date Prepared: 11/20/2007 1555

Analysis Batch: 220-11278
Prep Batch: 220-11264

Instrument ID: Perkin Elmer FIMS
Lab File ID: N/A
Initial Weight/Volume: 0.64 g
Final Weight/Volume: 50 mL

Analyte	DryWt Corrected: Y	Result (mg/Kg)	Qualifier	MDL	RL
Mercury		0.041	J	0.015	0.058

jam 1/24/08

DLB 11/13/08

Client: GEI Consultants, Inc.

Job Number: 220-3395-1
Sdg Number: 220-3395

Client Sample ID: **EHS-SS-02**

Lab Sample ID: 220-3395-9
Client Matrix: Solid

% Moisture: 19.6

Date Sampled: 11/14/2007 1052
Date Received: 11/15/2007 1634

8081A Organochlorine Pesticides by Gas Chromatography

Method: 8081A
Preparation: 3550B
Dilution: 5.0
Date Analyzed: 12/03/2007 1920
Date Prepared: 11/27/2007 1227

Analysis Batch: 220-11521
Prep Batch: 220-11392

Instrument ID: HP 5890 with dual ECD
Lab File ID: C7507057.D
Initial Weight/Volume: 30.63 g
Final Weight/Volume: 10.0 mL
Injection Volume: 1 uL
Column ID: PRIMARY

Analyte	DryWt Corrected: Y	Result (ug/Kg)	Qualifier	MDL	RL
4,4'-DDD		6.0 J	J	2.3	20
4,4'-DDE		46 J		2.6	20
4,4'-DDT		130 J		1.9	20
Aldrin		12	U	2.2	12
alpha-BHC		10	U	1.7	10
beta-BHC		10	U	1.6	10
delta-BHC		10	U	0.63	10
Dieldrin		~~2.6~~ 20U	~~J~~	2.0	20
Endosulfan I		10	U	0.89	10
Endosulfan II		20	U	1.0	20
Endosulfan sulfate		20	U	1.1	20
Endrin		30	U	5.4	30
Endrin aldehyde		5.4 J	J	2.0	20
Endrin ketone		20	U	0.88	20
gamma-BHC (Lindane)		10	U	0.93	10
Heptachlor		10	U	0.91	10
Heptachlor epoxide		~~0.90~~ 10U	J	0.69	10
Methoxychlor		100	U	13	100
Toxaphene		410	U	11	410
alpha-Chlordane		~~4.1~~ 10U	J	0.67	10
gamma-Chlordane		~~7.8~~ 10U	J	0.55	10

Surrogate	%Rec	Acceptance Limits
DCB Decachlorobiphenyl	159	25 - 159
Tetrachloro-m-xylene	134	24 - 154

Method: 8081A
Preparation: 3550B
Dilution: 5.0
Date Analyzed: 12/03/2007 1920
Date Prepared: 11/27/2007 1227

Analysis Batch: 220-11521
Prep Batch: 220-11392

Instrument ID: HP 5890 with dual ECD
Lab File ID: D7507057.D
Initial Weight/Volume: 30.63 g
Final Weight/Volume: 10.0 mL
Injection Volume: 1 uL
Column ID: SECONDARY

Surrogate	%Rec	Acceptance Limits
DCB Decachlorobiphenyl	148	25 - 159
Tetrachloro-m-xylene	116	24 - 154

DS 1/8/08

Jam 1/1/08

Client: GEI Consultants, Inc.

Job Number: 220-3395-1
Sdg Number: 220-3395

Client Sample ID: **EHS-SS-02**

Lab Sample ID: 220-3395-9
Client Matrix: Solid
% Moisture: 19.6

Date Sampled: 11/14/2007 1052
Date Received: 11/15/2007 1634

8082 Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Method: 8082
Preparation: 3550B
Dilution: 1.0
Date Analyzed: 11/30/2007 0038
Date Prepared: 11/27/2007 1227

Analysis Batch: 220-11497
Prep Batch: 220-11392

Instrument ID: HP 5890 with dual ECD
Lab File ID: D4663127.d
Initial Weight/Volume: 30.63 g
Final Weight/Volume: 10.0 mL
Injection Volume: 1 uL
Column ID: PRIMARY

Analyte	DryWt Corrected: Y Result (ug/Kg)	Qualifier	MDL	RL
PCB-1016	21	U	3.4	21
PCB-1221	40	U	1.9	40
PCB-1232	21	U	2.3	21
PCB-1242	21	U	3.6	21
PCB-1248	21	U	3.3	21
PCB-1254	21	U	1.5	21
PCB-1260	45	~~M~~ ✓	4.9	21

Surrogate	%Rec	Acceptance Limits
Tetrachloro-m-xylene	67	24 - 154
DCB Decachlorobiphenyl	84	25 - 159

Method: 8082
Preparation: 3550B
Dilution: 1.0
Date Analyzed: 11/30/2007 0038
Date Prepared: 11/27/2007 1227

Analysis Batch: 220-11497
Prep Batch: 220-11392

Instrument ID: HP 5890 with dual ECD
Lab File ID: D4663127.d
Initial Weight/Volume: 30.63 g
Final Weight/Volume: 10.0 mL
Injection Volume: 1 uL
Column ID: SECONDARY

Surrogate	%Rec	Acceptance Limits
Tetrachloro-m-xylene	60	24 - 154
DCB Decachlorobiphenyl	74	25 - 159

DB 1/18/08

dam 12/31/07

TestAmerica Connecticut

Client Sample ID: EHS-SS-02

GC Semivolatiles

Lot-Sample #...:	A7K170204-009	Work Order #...:	KCH5T1AC	Matrix.....:	SO
Date Sampled...:	11/14/07	Date Received..:	11/17/07		
Prep Date.....:	11/26/07	Analysis Date..:	11/27/07		
Prep Batch #...:	7330014				
Dilution Factor:	1	Initial Wgt/Vol:	48.73 g	Final Wgt/Vol..:	100 mL
% Moisture.....:	21	Method.....:	SW846 8151A		

PARAMETER	RESULT	REPORTING LIMIT	UNITS	MDL
2,4-D	ND	100	ug/kg	46
2,4,5-TP	ND	25	ug/kg	2.8
2,4,5-T	ND	25	ug/kg	4.1

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
2,4-Dichlorophenylacetic acid	74	(19 - 122)

NOTE(S):

Results and reporting limits have been adjusted for dry weight.

DG 1/18/08

EHW 1/10/08

Client: GEI Consultants, Inc.

Job Number: 220-3395-1
Sdg Number: 220-3395

Client Sample ID: **EHS-SS-03**

Lab Sample ID: 220-3395-10
Client Matrix: Solid

% Moisture: 21.4

Date Sampled: 11/14/2007 1115
Date Received: 11/15/2007 1634

8260B Volatile Organic Compounds by GC/MS

Method: 8260B
Preparation: 5030B
Dilution: 1.0
Date Analyzed: 11/26/2007 1553
Date Prepared: 11/26/2007 1553

Analysis Batch: 220-11399

Instrument ID: HP 5890/5971A GC/MS
Lab File ID: N6133.D
Initial Weight/Volume: 5 g
Final Weight/Volume: 5 mL

Analyte	DryWt Corrected: Y	Result (ug/Kg)	Qualifier	MDL	RL
Acetone	✓ 25U	~~11~~	~~J B~~	3.0	25
Benzene		6.4	U	0.90	6.4
Bromodichloromethane		6.4	U	0.83	6.4
Bromoform		6.4	U	2.2	6.4
Bromomethane		6.4	U	1.9	6.4
Methyl Ethyl Ketone		13	U	4.3	13
Carbon disulfide		6.4	U	0.67	6.4
Carbon tetrachloride		6.4	U	0.90	6.4
Chlorobenzene		6.4	U	1.1	6.4
Chloroethane		6.4	U	1.6	6.4
Chloroform		6.4	U	0.67	6.4
Chloromethane		6.4	U	1.3	6.4
Dibromochloromethane		6.4	U	1.4	6.4
1,1-Dichloroethane		6.4	U	0.83	6.4
1,2-Dichloroethane		6.4	U	1.4	6.4
1,1-Dichloroethene		6.4	U	1.0	6.4
1,2-Dichloropropane		6.4	U	1.2	6.4
cis-1,3-Dichloropropene		6.4	U	0.79	6.4
trans-1,3-Dichloropropene		6.4	U	1.4	6.4
Ethylbenzene		6.4	U	0.90	6.4
2-Hexanone		13	U	3.4	13
Methylene Chloride	✓ 25U	~~2.5~~	~~J~~	1.8	25
methyl isobutyl ketone		6.4	U	1.2	6.4
Styrene		6.4	U ✓ UJ ✓	1.6	6.4
1,1,2,2-Tetrachloroethane		6.4	U	1.3	6.4
Tetrachloroethene		6.4	U	0.94	6.4
Toluene		6.4	U	0.75	6.4
1,1,1-Trichloroethane		6.4	U	0.93	6.4
1,1,2-Trichloroethane		6.4	U	1.1	6.4
Trichloroethene		6.4	U	1.3	6.4
Vinyl chloride		6.4	U	1.7	6.4
Xylenes, Total		6.4	U	3.1	6.4
cis-1,2-Dichloroethene		6.4	U	1.2	6.4
trans-1,2-Dichloroethene		6.4	U	1.2	6.4

Surrogate	%Rec	Acceptance Limits
1,2-Dichloroethane-d4 (Surr)	77	49 - 134
4-Bromofluorobenzene	63	36 - 133
Dibromofluoromethane	72	60 - 130
Toluene-d8 (Surr)	66	51 - 137

DB 1/8/08 EMM 1/9/08

Client: GEI Consultants, Inc.

Job Number: 220-3395-1
Sdg Number: 220-3395

Client Sample ID: EHS-SS-03

Lab Sample ID: 220-3395-10
Client Matrix: Solid

% Moisture: 21.4

Date Sampled: 11/14/2007 1115
Date Received: 11/15/2007 1634

8270C Semivolatile Compounds by Gas Chromatography/Mass Spectrometry (GC/MS)

Method: 8270C
Preparation: 3541
Dilution: 10
Date Analyzed: 11/29/2007 2252
Date Prepared: 11/27/2007 0953

Analysis Batch: 220-11486
Prep Batch: 220-11378

Instrument ID: HP 6890/5973 GC/MS
Lab File ID: U2189.D
Initial Weight/Volume: 15.32 g
Final Weight/Volume: 1 mL
Injection Volume: 1 uL

Analyte	DryWt Corrected: Y	Result (ug/Kg)	Qualifier	MDL	RL
Acenaphthene		3300	J	720	4100
Acenaphthylene		4100	U	780	4100
Anthracene		6200	J	660	4100
Benzo[a]anthracene		11000	J	600	4100
Benzo[a]pyrene		8700	J	530	4100
Benzo[b]fluoranthene		9300	J	700	4100
Benzo[g,h,i]perylene		4200	J	800	4100
Benzo[k]fluoranthene		3600	J	670	4100
Bis(2-chloroethoxy)methane		4100	U	660	4100
Bis(2-chloroethyl)ether		4100	U	2000	4100
Bis(2-ethylhexyl) phthalate		1800	J	530	4100
Butyl benzyl phthalate		4100	U	580	4100
Carbazole		2300	J	700	4100
Chrysene		11000	J	720	4100
Di-n-butyl phthalate		4100	U	630	4100
Di-n-octyl phthalate		4100	U	650	4100
4-Bromophenyl phenyl ether		4100	U	660	4100
4-Chloroaniline		4100	U	550	4100
2-Chloronaphthalene		4100	U	720	4100
4-Chlorophenyl phenyl ether		4100	U	810	4100
Dibenz(a,h)anthracene		1200	J	620	4100
Dibenzofuran		1700	J	720	4100
Diethyl phthalate		4100	U	1000	4100
Dimethyl phthalate		4100	U	720	4100
1,2-Dichlorobenzene		4100	U	650	4100
1,3-Dichlorobenzene		4100	U	660	4100
1,4-Dichlorobenzene		4100	U	640	4100
3,3'-Dichlorobenzidine		8200	U	460	8200
2,4-Dinitrotoluene		4100	U	630	4100
2,6-Dinitrotoluene		4100	U	1600	4100
Fluoranthene		25000	J	680	4100
Fluorene		2300	J	700	4100
Hexachlorobenzene		4100	U	710	4100
Hexachlorobutadiene		4100	U	780	4100
Hexachlorocyclopentadiene		4100	U	580	4100
Hexachloroethane		4100	U	710	4100
Indeno[1,2,3-cd]pyrene		5000	J	730	4100
Isophorone		4100	U	840	4100
2-Methylnaphthalene		940	J	750	4100
Naphthalene		1200	J	630	4100
2-Nitroaniline		20000	U	550	20000
3-Nitroaniline		20000	U	590	20000
Nitrobenzene		4100	U	760	4100
N-Nitrosodi-n-propylamine		4100	U	920	4100

DR 1/18/08 EHM 1/10/08

Client: GEI Consultants, Inc.

Job Number: 220-3395-1
Sdg Number: 220-3395

Client Sample ID: **EHS-SS-03**

Lab Sample ID: 220-3395-10
Client Matrix: Solid
% Moisture: 21.4
Date Sampled: 11/14/2007 1115
Date Received: 11/15/2007 1634

8270C Semivolatile Compounds by Gas Chromatography/Mass Spectrometry (GC/MS)

Method: 8270C
Preparation: 3541
Dilution: 10
Date Analyzed: 11/29/2007 2252
Date Prepared: 11/27/2007 0953
Analysis Batch: 220-11486
Prep Batch: 220-11378
Instrument ID: HP 6890/5973 GC/MS
Lab File ID: U2189.D
Initial Weight/Volume: 15.32 g
Final Weight/Volume: 1 mL
Injection Volume: 1 uL

Analyte	DryWt Corrected: Y	Result (ug/Kg)	Qualifier	MDL	RL
N-Nitrosodiphenylamine		4100	U	740	4100
Phenanthrene		26000	J	680	4100
Pyrene		21000	J	600	4100
1,2,4-Trichlorobenzene		4100	U	650	4100
4-Chloro-3-methylphenol		4100	U	820	4100
2-Chlorophenol		4100	U	890	4100
2-Methylphenol		4100	U	650	4100
4-Methylphenol		4100	U UJ	620	4100
2,4-Dichlorophenol		4100	U	850	4100
2,4-Dimethylphenol		4100	U	550	4100
2,4-Dinitrophenol		20000	U	2700	20000
4,6-Dinitro-2-methylphenol		20000	U	3200	20000
2-Nitrophenol		4100	U	880	4100
4-Nitrophenol		20000	U	1900	20000
Pentachlorophenol		20000	U	290	20000
Phenol		4100	U	490	4100
2,4,5-Trichlorophenol		20000	U	620	20000
2,4,6-Trichlorophenol		4100	U	600	4100
Benzyl alcohol		4100	U	850	4100
4-Nitroaniline		8200	U	620	8200
2,2'-oxybis[1-chloropropane]		4100	U	660	4100

Surrogate	%Rec	Acceptance Limits
2-Fluorobiphenyl	100	32 - 131
2-Fluorophenol	92	25 - 113
2,4,6-Tribromophenol	95	24 - 150
Nitrobenzene-d5	96	25 - 120
Phenol-d5	99	27 - 122
Terphenyl-d14	93	35 - 140

DO 1/18/08

EMM 1/10/08

Client: GEI Consultants, Inc.

Job Number: 220-3395-1
Sdg Number: 220-3395

Client Sample ID: EHS-SS-03

Lab Sample ID: 220-3395-10
Client Matrix: Solid

% Moisture: 21.4

Date Sampled: 11/14/2007 1115
Date Received: 11/15/2007 1634

6010B Inductively Coupled Plasma - Atomic Emission Spectrometry

Method: 6010B
Preparation: 3050B
Dilution: 1.0
Date Analyzed: 11/21/2007 1615
Date Prepared: 11/19/2007 1407

Analysis Batch: 220-11308
Prep Batch: 220-11213

Instrument ID: TJA Trace ICAP
Lab File ID: W112107
Initial Weight/Volume: 1.15 g
Final Weight/Volume: 250 mL

Analyte	DryWt Corrected: Y	Result (mg/Kg)	Qualifier	MDL	RL
Silver		4.1	U	0.41	4.1
Aluminum		22400 J ✓		12.7	138
Arsenic		29.1		1.9	11.1
Barium		277 J ✓		0.30	2.8
Beryllium		1.7	J ✓	0.64	2.8
Calcium		5450 J ✓		17.1	276
Cadmium		6.9	U	1.3	6.9
Cobalt		9.3 J ✓		0.72	2.8
Chromium		90.6 J ✓		0.47	4.1
Copper		34.6		0.61	6.9
Iron		40600 J ✓		13.5	82.9
Potassium		1620 J ✓		33.2	276
Magnesium		1620 J ✓		8.6	48.4
Manganese		143		0.91	8.3
Sodium		507 J ✓		26.3	276
Nickel		29.3 J ✓		0.61	6.9
Lead		928 J ✓		1.2	6.9
Antimony		13.8	UJ ✓	1.9	13.8
Selenium		3.7	J	2.3	13.8
Thallium		20.7	U	3.0	20.7
Vanadium		122 J ✓		0.44	5.5
Zinc		166 J ✓		3.0	27.6

7471A Mercury in Solid or Semisolid Waste (Manual Cold Vapor Technique)

Method: 7471A
Preparation: 7471A
Dilution: 1.0
Date Analyzed: 11/21/2007 0957
Date Prepared: 11/20/2007 1555

Analysis Batch: 220-11278
Prep Batch: 220-11264

Instrument ID: Perkin Elmer FIMS
Lab File ID: N/A
Initial Weight/Volume: 0.67 g
Final Weight/Volume: 50 mL

Analyte	DryWt Corrected: Y	Result (mg/Kg)	Qualifier	MDL	RL
Mercury		0.13 J ✓		0.014	0.057

Jam 1/2/08

DB 1/18/08

Client: GEI Consultants, Inc.

Job Number: 220-3395-1
Sdg Number: 220-3395

Client Sample ID: EHS-SS-03

Lab Sample ID: 220-3395-10
Client Matrix: Solid

% Moisture: 21.4

Date Sampled: 11/14/2007 1115
Date Received: 11/15/2007 1634

8081A Organochlorine Pesticides by Gas Chromatography

Method: 8081A
Preparation: 3550B
Dilution: 2.0
Date Analyzed: 12/03/2007 1942
Date Prepared: 11/27/2007 1227

Analysis Batch: 220-11521
Prep Batch: 220-11392

Instrument ID: HP 5890 with dual ECD
Lab File ID: D7507058.D
Initial Weight/Volume: 30.48 g
Final Weight/Volume: 10.0 mL
Injection Volume: 1 uL
Column ID: PRIMARY

Analyte	DryWt Corrected: Y Result (ug/Kg)	Qualifier	MDL	RL
4,4'-DDD	20 J ✓		0.95	8.3
4,4'-DDE	46 J ✓		1.1	8.3
4,4'-DDT	79 J ✓	~~M~~	0.77	8.3
Aldrin	5.0	U	0.89	5.0
alpha-BHC	1.9	J ✓	0.69	4.3
beta-BHC	4.3	U	0.67	4.3
delta-BHC	~~0.96~~ 4.3U ✓	~~J~~	0.26	4.3
Dieldrin	~~3.7~~ 8.3U ✓	~~J M~~	0.80	8.3
Endosulfan I	~~1.4~~ 4.3U ✓	~~J~~	0.37	4.3
Endosulfan II	~~1.8~~ 8.3U ✓	~~J M~~	0.43	8.3
Endosulfan sulfate	8.3	U	0.43	8.3
Endrin	13	U	2.2	13
Endrin aldehyde	15 JN ✓	~~M~~	0.81	8.3
Endrin ketone	8.3	U	0.36	8.3
gamma-BHC (Lindane)	4.3	U	0.38	4.3
Heptachlor	4.3	U	0.38	4.3
Heptachlor epoxide	~~2.0~~ 4.3U ✓	~~J~~	0.29	4.3
Methoxychlor	43	U	5.3	43
Toxaphene	170	U	4.4	170
alpha-Chlordane	4.3	U	0.28	4.3
gamma-Chlordane	~~3.5~~ 4.3U ✓	~~J M~~	0.23	4.3

Surrogate	%Rec		Acceptance Limits
DCB Decachlorobiphenyl	329	*	25 - 159
Tetrachloro-m-xylene	128		24 - 154

Method: 8081A
Preparation: 3550B
Dilution: 2.0
Date Analyzed: 12/03/2007 1942
Date Prepared: 11/27/2007 1227

Analysis Batch: 220-11521
Prep Batch: 220-11392

Instrument ID: HP 5890 with dual ECD
Lab File ID: D7507058.D
Initial Weight/Volume: 30.48 g
Final Weight/Volume: 10.0 mL
Injection Volume: 1 uL
Column ID: SECONDARY

Surrogate	%Rec		Acceptance Limits
DCB Decachlorobiphenyl	230	*	25 - 159
Tetrachloro-m-xylene	120		24 - 154

DB 11/8/08

JAM 1/1/08

Client: GEI Consultants, Inc.

Job Number: 220-3395-1
Sdg Number: 220-3395

Client Sample ID: **EHS-SS-03**

Lab Sample ID: 220-3395-10
Client Matrix: Solid
% Moisture: 21.4

Date Sampled: 11/14/2007 1115
Date Received: 11/15/2007 1634

8082 Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Method: 8082
Preparation: 3550B
Dilution: 1.0
Date Analyzed: 11/30/2007 0055
Date Prepared: 11/27/2007 1227

Analysis Batch: 220-11497
Prep Batch: 220-11392

Instrument ID: HP 5890 with dual ECD
Lab File ID: D4663128.d
Initial Weight/Volume: 30.48 g
Final Weight/Volume: 10.0 mL
Injection Volume: 1 uL
Column ID: PRIMARY

Analyte	DryWt Corrected: Y	Result (ug/Kg)	Qualifier	MDL	RL
PCB-1016		21	UJ	3.5	21
PCB-1221		41	U	1.9	41
PCB-1232		21	U	2.3	21
PCB-1242		21	U	3.7	21
PCB-1248		21	U	3.4	21
PCB-1254		21	U J	1.5	21
PCB-1260		24	~~M~~ J	5.0	21

Surrogate	%Rec		Acceptance Limits
Tetrachloro-m-xylene	21	*	24 - 154
DCB Decachlorobiphenyl	75		25 - 159

Method: 8082
Preparation: 3550B
Dilution: 1.0
Date Analyzed: 11/30/2007 0055
Date Prepared: 11/27/2007 1227

Analysis Batch: 220-11497
Prep Batch: 220-11392

Instrument ID: HP 5890 with dual ECD
Lab File ID: D4663128.d
Initial Weight/Volume: 30.48 g
Final Weight/Volume: 10.0 mL
Injection Volume: 1 uL
Column ID: SECONDARY

Surrogate	%Rec		Acceptance Limits
Tetrachloro-m-xylene	18	*	24 - 154
DCB Decachlorobiphenyl	63		25 - 159

DG 1/18/08

12/31/07

TestAmerica Connecticut

Client Sample ID: EHS-SS-03

GC Semivolatiles

Lot-Sample #...:	A7K170204-010	Work Order #...:	KCH5V1AC	Matrix.....:	SO
Date Sampled...:	11/14/07 10:52	Date Received..:	11/17/07		
Prep Date.....:	11/26/07	Analysis Date..:	11/27/07		
Prep Batch #...:	7330014				
Dilution Factor:	1	Initial Wgt/Vol:	50.01 g	Final Wgt/Vol..:	100 mL
% Moisture.....:	22	Method.....:	SW846 8151A		

PARAMETER	RESULT	REPORTING LIMIT	UNITS	MDL
2,4-D	ND	100	ug/kg	46
2,4,5-TP	ND	26	ug/kg	2.8
2,4,5-T	ND	26	ug/kg	4.1

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
2,4-Dichlorophenylacetic acid	95	(19 - 122)

NOTE(S):

Results and reporting limits have been adjusted for dry weight.

DM 1/18/08

EMM 1/10/08

TestAmerica Connecticut

Client Sample ID: EHS-SS-03

General Chemistry

Lot-Sample #...: A7K170204-010 Work Order #...: KCH5V Matrix.....: SO
Date Sampled...: 11/14/07 10:52 Date Received..: 11/17/07
% Moisture.....: 22

PARAMETER	RESULT	RL	UNITS	METHOD	PREPARATION-ANALYSIS DATE	PREP BATCH #
Acid-soluble sulfide	25.5 B J	38.3	mg/kg	SW846 9030B/9034	11/20/07	7324747
		Dilution Factor: 1		MDL.....: 7.1		
Percent Solids	78.4	10.0	%	MCAWW 160.3 MOD	11/26-11/27/07	7330572
		Dilution Factor: 1		MDL.....: 10.0		

NOTE(S):

RL Reporting Limit

Results and reporting limits have been adjusted for dry weight.

B Estimated result. Result is less than RL.

dam 1/4/08

Duplicate of EHS-SS-03

Analytical Data

Client: GEI Consultants, Inc.

Job Number: 220-3395-1
Sdg Number: 220-3395

Client Sample ID: **EHS-SS-XX**

Lab Sample ID: 220-3395-8
Client Matrix: Solid
% Moisture: 31.7
Date Sampled: 11/14/2007 0000
Date Received: 11/15/2007 1634

8260B Volatile Organic Compounds by GC/MS

Method: 8260B
Preparation: 5030B
Dilution: 1.0
Date Analyzed: 11/21/2007 0137
Date Prepared: 11/21/2007 0137
Analysis Batch: 220-11269
Instrument ID: HP 5890/5971A GC/MS
Lab File ID: N6063.D
Initial Weight/Volume: 5 g
Final Weight/Volume: 5 mL

Analyte	DryWt Corrected: Y	Result (ug/Kg)	Qualifier	MDL	RL
Acetone	29 U	~~4.7~~	~~J~~	3.4	29
Benzene		7.3	U	1.0	7.3
Bromodichloromethane		7.3	U	0.95	7.3
Bromoform		7.3	U	2.5	7.3
Bromomethane		7.3	U	2.2	7.3
Methyl Ethyl Ketone		15	U	4.9	15
Carbon disulfide		7.3	U	0.78	7.3
Carbon tetrachloride		7.3	U	1.0	7.3
Chlorobenzene		7.3	U	1.3	7.3
Chloroethane		7.3	U	1.9	7.3
Chloroform		7.3	U	0.78	7.3
Chloromethane		7.3	U	1.5	7.3
Dibromochloromethane		7.3	U	1.6	7.3
1,1-Dichloroethane		7.3	U	0.95	7.3
1,2-Dichloroethane		7.3	U	1.6	7.3
1,1-Dichloroethene		7.3	U	1.2	7.3
1,2-Dichloropropane		7.3	U	1.4	7.3
cis-1,3-Dichloropropene		7.3	U	0.91	7.3
trans-1,3-Dichloropropene		7.3	U	1.6	7.3
Ethylbenzene		7.3	U	1.0	7.3
2-Hexanone		15	U	3.9	15
Methylene Chloride	29 U	~~2.8~~	~~J~~	2.0	29
methyl isobutyl ketone		7.3	U	1.4	7.3
Styrene		7.3	U	1.9	7.3
1,1,2,2-Tetrachloroethane		7.3	U	1.5	7.3
Tetrachloroethene		7.3	U	1.1	7.3
Toluene		7.3	U	0.86	7.3
1,1,1-Trichloroethane		7.3	U	1.1	7.3
1,1,2-Trichloroethane		7.3	U	1.3	7.3
Trichloroethene		7.3	U	1.4	7.3
Vinyl chloride		7.3	U	1.9	7.3
Xylenes, Total		7.3	U	3.6	7.3
cis-1,2-Dichloroethene		7.3	U	1.3	7.3
trans-1,2-Dichloroethene		7.3	U	1.4	7.3

Surrogate	%Rec	Acceptance Limits
1,2-Dichloroethane-d4 (Surr)	82	49 - 134
4-Bromofluorobenzene	44	36 - 133
Dibromofluoromethane	77	60 - 130
Toluene-d8 (Surr)	59	51 - 137

DB 1/8/08

EMM 1/9/08

Duplicate of EHS-SS-03

Analytical Data

Client: GEI Consultants, Inc.

Job Number: 220-3395-1
Sdg Number: 220-3395

Client Sample ID: **EHS-SS-XX**

Lab Sample ID: 220-3395-8
Client Matrix: Solid
% Moisture: 31.7
Date Sampled: 11/14/2007 0000
Date Received: 11/15/2007 1634

8270C Semivolatile Compounds by Gas Chromatography/Mass Spectrometry (GC/MS)

Method: 8270C
Preparation: 3541
Dilution: 1.0
Date Analyzed: 11/29/2007 2204
Date Prepared: 11/27/2007 0953
Analysis Batch: 220-11486
Prep Batch: 220-11378
Instrument ID: HP 6890/5973 GC/MS
Lab File ID: U2187.D
Initial Weight/Volume: 15.27 g
Final Weight/Volume: 1 mL
Injection Volume: 1 uL

Analyte	DryWt Corrected: Y	Result (ug/Kg)	Qualifier	MDL	RL
Acenaphthene		470	U UJ	83	470
Acenaphthylene		470	U	90	470
Anthracene		470	U M UJ	77	470
Benzo[a]anthracene		150	J J	69	470
Benzo[a]pyrene		160	J J	61	470
Benzo[b]fluoranthene		230	J J	81	470
Benzo[g,h,i]perylene		150	J J	93	470
Benzo[k]fluoranthene		79	J J	78	470
Bis(2-chloroethoxy)methane		470	U	77	470
Bis(2-chloroethyl)ether		470	U	230	470
Bis(2-ethylhexyl) phthalate		580	J	61	470
Butyl benzyl phthalate		470	U	67	470
Carbazole		470	U UJ	81	470
Chrysene		250	J J	83	470
Di-n-butyl phthalate		470	U	73	470
Di-n-octyl phthalate		470	U	75	470
4-Bromophenyl phenyl ether		470	U	77	470
4-Chloroaniline		470	U	63	470
2-Chloronaphthalene		470	U	83	470
4-Chlorophenyl phenyl ether		470	U	93	470
Dibenz(a,h)anthracene		470	U UJ	72	470
Dibenzofuran		470	U UJ	83	470
Diethyl phthalate		470	U	120	470
Dimethyl phthalate		470	U	84	470
1,2-Dichlorobenzene		470	U	75	470
1,3-Dichlorobenzene		470	U	76	470
1,4-Dichlorobenzene		470	U	74	470
3,3'-Dichlorobenzidine		950	U	53	950
2,4-Dinitrotoluene		470	U	72	470
2,6-Dinitrotoluene		470	U	190	470
Fluoranthene		340	J J	79	470
Fluorene		470	U UJ	81	470
Hexachlorobenzene		470	U	82	470
Hexachlorobutadiene		470	U	90	470
Hexachlorocyclopentadiene		470	U	67	470
Hexachloroethane		470	U	82	470
Indeno[1,2,3-cd]pyrene		170	J J	84	470
Isophorone		470	U	97	470
2-Methylnaphthalene		470	U UJ	87	470
Naphthalene		470	U UJ	72	470
2-Nitroaniline		2300	U	64	2300
3-Nitroaniline		2300	U	68	2300
Nitrobenzene		470	U	87	470
N-Nitrosodi-n-propylamine		470	U	110	470

DG 1/18/18 EHS 1/10/08

Duplicate of EHS-SS-03

Analytical Data

Client: GEI Consultants, Inc.

Job Number: 220-3395-1
Sdg Number: 220-3395

Client Sample ID: **EHS-SS-XX**

Lab Sample ID: 220-3395-8
Client Matrix: Solid
% Moisture: 31.7

Date Sampled: 11/14/2007 0000
Date Received: 11/15/2007 1634

8270C Semivolatile Compounds by Gas Chromatography/Mass Spectrometry (GC/MS)

Method: 8270C
Preparation: 3541
Dilution: 1.0
Date Analyzed: 11/29/2007 2204
Date Prepared: 11/27/2007 0953

Analysis Batch: 220-11486
Prep Batch: 220-11378

Instrument ID: HP 6890/5973 GC/MS
Lab File ID: U2187.D
Initial Weight/Volume: 15.27 g
Final Weight/Volume: 1 mL
Injection Volume: 1 uL

Analyte	DryWt Corrected: Y Result (ug/Kg)	Qualifier	MDL	RL
N-Nitrosodiphenylamine	470	U	86	470
Phenanthrene	170	J J ✓	78	470
Pyrene	330	J J ✓	69	470
1,2,4-Trichlorobenzene	470	U	76	470
4-Chloro-3-methylphenol	470	U	95	470
2-Chlorophenol	470	U	100	470
2-Methylphenol	470	U	75	470
4-Methylphenol	91	J J ✓	71	470
2,4-Dichlorophenol	470	U	99	470
2,4-Dimethylphenol	470	U	64	470
2,4-Dinitrophenol	2300	U ✓ ✓	310	2300
4,6-Dinitro-2-methylphenol	2300	U ✓ ✓	370	2300
2-Nitrophenol	470	U	100	470
4-Nitrophenol	2300	U	220	2300
Pentachlorophenol	2300	U	34	2300
Phenol	470	U	57	470
2,4,5-Trichlorophenol	2300	U	72	2300
2,4,6-Trichlorophenol	470	U	69	470
Benzyl alcohol	470	U	99	470
4-Nitroaniline	950	U	71	950
2,2'-oxybis[1-chloropropane]	470	U	77	470

Surrogate	%Rec	Acceptance Limits
2-Fluorobiphenyl	88	32 - 131
2-Fluorophenol	82	25 - 113
2,4,6-Tribromophenol	88	24 - 150
Nitrobenzene-d5	78	25 - 120
Phenol-d5	90	27 - 122
Terphenyl-d14	103	35 - 140

DB 1/18/08 EMH 1/10/08

Duplicate of EHS-SS-03

Analytical Data

Client: GEI Consultants, Inc.

Job Number: 220-3395-1
Sdg Number: 220-3395

Client Sample ID: EHS-SS-XX

Lab Sample ID: 220-3395-8
Client Matrix: Solid

% Moisture: 31.7

Date Sampled: 11/14/2007 0000
Date Received: 11/15/2007 1634

6010B Inductively Coupled Plasma - Atomic Emission Spectrometry

Method: 6010B
Preparation: 3050B
Dilution: 1.0
Date Analyzed: 11/21/2007 1605
Date Prepared: 11/19/2007 1407

Analysis Batch: 220-11308
Prep Batch: 220-11213

Instrument ID: TJA Trace ICAP
Lab File ID: W112107
Initial Weight/Volume: 1.17 g
Final Weight/Volume: 250 mL

Analyte	DryWt Corrected: Y	Result (mg/Kg)	Qualifier	MDL	RL
Silver		4.7	U	0.47	4.7
Aluminum		8850 J ✓		14.4	156
Arsenic		22.4		2.1	12.5
Barium		31.0 J ✓		0.34	3.1
Beryllium		3.1	U	0.72	3.1
Calcium		1680 J ✓		19.4	313
Cadmium		7.8	U	1.4	7.8
Cobalt		4.3 J ✓		0.81	3.1
Chromium		12.0 J ✓		0.53	4.7
Copper		57.6		0.69	7.8
Iron		12900 J ✓		15.3	93.9
Potassium		431 J ✓		37.5	313
Magnesium		1610 J ✓		9.7	54.8
Manganese		119		1.0	9.4
Sodium		193	J ✓	29.7	313
Nickel		6.8	J ✓	0.69	7.8
Lead		43.2 J ✓		1.3	7.8
Antimony		15.6	U J ✓	2.2	15.6
Selenium		15.6	U	2.6	15.6
Thallium		23.5	U	3.4	23.5
Vanadium		23.6 J ✓		0.50	6.3
Zinc		46.4 J ✓		3.4	31.3

7471A Mercury in Solid or Semisolid Waste (Manual Cold Vapor Technique)

Method: 7471A
Preparation: 7471A
Dilution: 1.0
Date Analyzed: 11/21/2007 0955
Date Prepared: 11/20/2007 1555

Analysis Batch: 220-11278
Prep Batch: 220-11264

Instrument ID: Perkin Elmer FIMS
Lab File ID: N/A
Initial Weight/Volume: 0.66 g
Final Weight/Volume: 50 mL

Analyte	DryWt Corrected: Y	Result (mg/Kg)	Qualifier	MDL	RL
Mercury		0.046 J	J	0.017	0.067

Dam 1/2/08

DB 1/16/08

Duplicate of EHS-SS-03

Analytical Data

Client: GEI Consultants, Inc.

Job Number: 220-3395-1
Sdg Number: 220-3395

Client Sample ID: **EHS-SS-XX**

Lab Sample ID: 220-3395-8
Client Matrix: Solid

% Moisture: 31.7

Date Sampled: 11/14/2007 0000
Date Received: 11/15/2007 1634

8081A Organochlorine Pesticides by Gas Chromatography

Method: 8081A
Preparation: 3550B
Dilution: 5.0
Date Analyzed: 12/03/2007 1859
Date Prepared: 11/27/2007 1227

Analysis Batch: 220-11521
Prep Batch: 220-11392

Instrument ID: HP 5890 with dual ECD
Lab File ID: D7507056.D
Initial Weight/Volume: 30.69 g
Final Weight/Volume: 10.0 mL
Injection Volume: 1 uL
Column ID: PRIMARY

Analyte	DryWt Corrected: Y	Result (ug/Kg)	Qualifier	MDL	RL
4,4'-DDD		4.6 J	~~J~~	2.7	24
4,4'-DDE		85 J	~~M~~	3.1	24
4,4'-DDT		86 J	~~M~~	2.2	24
Aldrin		14	U	2.5	14
alpha-BHC		12	U	2.0	12
beta-BHC		12	U	1.9	12
delta-BHC		12	U	0.74	12
Dieldrin		24	U	2.3	24
Endosulfan I		12	U	1.1	12
Endosulfan II		~~2.9~~ 24U	~~J M~~	1.2	24
Endosulfan sulfate		6.5 J	~~J M~~	1.2	24
Endrin		36	U	6.4	36
Endrin aldehyde		24	U	2.3	24
Endrin ketone		24	U	1.0	24
gamma-BHC (Lindane)		12	U	1.1	12
Heptachlor		12	U	1.1	12
Heptachlor epoxide		12	U	0.82	12
Methoxychlor		120	U	15	120
Toxaphene		480	U	13	480
alpha-Chlordane		12	U	0.79	12
gamma-Chlordane		~~4.7~~ 12U	~~J~~	0.65	12

Surrogate	%Rec	Acceptance Limits
DCB Decachlorobiphenyl	116	25 - 159
Tetrachloro-m-xylene	93	24 - 154

Method: 8081A
Preparation: 3550B
Dilution: 5.0
Date Analyzed: 12/03/2007 1859
Date Prepared: 11/27/2007 1227

Analysis Batch: 220-11521
Prep Batch: 220-11392

Instrument ID: HP 5890 with dual ECD
Lab File ID: C7507056.D
Initial Weight/Volume: 30.69 g
Final Weight/Volume: 10.0 mL
Injection Volume: 1 uL
Column ID: SECONDARY

Surrogate	%Rec	Acceptance Limits
DCB Decachlorobiphenyl	105	25 - 159
Tetrachloro-m-xylene	91	24 - 154

1/1/08

Duplicate of EHS-SS-03

Analytical Data

Client: GEI Consultants, Inc.

Job Number: 220-3395-1
Sdg Number: 220-3395

Client Sample ID: EHS-SS-XX

Lab Sample ID: 220-3395-8
Client Matrix: Solid
% Moisture: 31.7
Date Sampled: 11/14/2007 0000
Date Received: 11/15/2007 1634

8082 Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Method: 8082
Preparation: 3550B
Dilution: 1.0
Date Analyzed: 11/30/2007 0022
Date Prepared: 11/27/2007 1227
Analysis Batch: 220-11497
Prep Batch: 220-11392
Instrument ID: HP 5890 with dual ECD
Lab File ID: D4663126.d
Initial Weight/Volume: 30.69 g
Final Weight/Volume: 10.0 mL
Injection Volume: 1 uL
Column ID: PRIMARY

Analyte	DryWt Corrected: Y	Result (ug/Kg)	Qualifier	MDL	RL
PCB-1016		24	U	4.0	24
PCB-1221		47	U	2.2	47
PCB-1232		24	U	2.7	24
PCB-1242		24	U	4.3	24
PCB-1248		24	U	3.9	24
PCB-1254		24	U	1.7	24
PCB-1260		24	U	5.7	24

Surrogate	%Rec	Acceptance Limits
Tetrachloro-m-xylene	48	24 - 154
DCB Decachlorobiphenyl	59	25 - 159

DG 1/18/08

dam 12/21/07

Duplicate of EHS-SS-03

TestAmerica Connecticut

Client Sample ID: EHS-SS-XX

GC Semivolatiles

Lot-Sample #...:	A7K170204-008	Work Order #...:	KCH5R1AC	Matrix.....:	SO
Date Sampled...:	11/14/07	Date Received..:	11/17/07		
Prep Date.....:	11/26/07	Analysis Date..:	11/27/07		
Prep Batch #...:	7330014				
Dilution Factor:	1	Initial Wgt/Vol:	50.04 g	Final Wgt/Vol..:	100 mL
% Moisture.....:	40	Method.....:	SW846 8151A		

PARAMETER	RESULT	REPORTING LIMIT	UNITS	MDL
2,4-D	ND	130	ug/kg	60
2,4,5-TP	ND	33	ug/kg	3.7
2,4,5-T	ND	33	ug/kg	5.3

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
2,4-Dichlorophenylacetic acid	100	(19 - 122)

NOTE(S):

Results and reporting limits have been adjusted for dry weight.

DB 11/18/08

EMM 1/12/08

Duplicate of EHS-SS-03

TestAmerica Connecticut

Client Sample ID: EHS-SS-XX

General Chemistry

Lot-Sample #...: A7K170204-008 Work Order #...: KCH5R Matrix.....: SO
Date Sampled...: 11/14/07 Date Received..: 11/17/07
% Moisture.....: 40

PARAMETER	RESULT	RL	UNITS	METHOD	PREPARATION-ANALYSIS DATE	PREP BATCH #
Acid-soluble sulfide	ND UJ	50.1	mg/kg	SW846 9030B/9034	11/20/07	7324747
		Dilution Factor: 1		MDL.....: 9.3		
Percent Solids	59.9	10.0	%	MCAWW 160.3 MOD	11/26-11/27/07	7330572
		Dilution Factor: 1		MDL.....: 10.0		

NOTE(S):

RL Reporting Limit

Results and reporting limits have been adjusted for dry weight.

dam 1/2/08

Client: GEI Consultants, Inc.

Job Number: 220-3395-1
Sdg Number: 220-3395

Client Sample ID: EHS-SS-04

Lab Sample ID: 220-3395-11
Client Matrix: Solid

% Moisture: 18.2

Date Sampled: 11/14/2007 1135
Date Received: 11/15/2007 1634

8260B Volatile Organic Compounds by GC/MS

Method: 8260B
Preparation: 5030B
Dilution: 1.0
Date Analyzed: 11/26/2007 1618
Date Prepared: 11/26/2007 1618

Analysis Batch: 220-11399

Instrument ID: HP 5890/5971A GC/MS
Lab File ID: N6134.D
Initial Weight/Volume: 5 g
Final Weight/Volume: 5 mL

Analyte	DryWt Corrected: Y	Result (ug/Kg)	Qualifier	MDL	RL
Acetone	✓ 24U	~~6.0~~	~~J B~~	2.9	24
Benzene		6.1	U	0.87	6.1
Bromodichloromethane		6.1	U	0.79	6.1
Bromoform		6.1	U	2.1	6.1
Bromomethane		6.1	U	1.9	6.1
Methyl Ethyl Ketone		12	U	4.1	12
Carbon disulfide		6.1	U	0.65	6.1
Carbon tetrachloride		6.1	U	0.87	6.1
Chlorobenzene		6.1	U	1.1	6.1
Chloroethane		6.1	U	1.6	6.1
Chloroform		6.1	U	0.65	6.1
Chloromethane		6.1	U	1.2	6.1
Dibromochloromethane		6.1	U	1.3	6.1
1,1-Dichloroethane		6.1	U	0.79	6.1
1,2-Dichloroethane		6.1	U	1.3	6.1
1,1-Dichloroethene		6.1	U	0.97	6.1
1,2-Dichloropropane		6.1	U	1.2	6.1
cis-1,3-Dichloropropene		6.1	U	0.76	6.1
trans-1,3-Dichloropropene		6.1	U	1.3	6.1
Ethylbenzene		6.1	U	0.87	6.1
2-Hexanone		12	U	3.2	12
Methylene Chloride	✓ 24U	~~2.8~~	~~J~~	1.7	24
methyl isobutyl ketone		6.1	U	1.1	6.1
Styrene		6.1	U ✓ UJ ✓	1.6	6.1
1,1,2,2-Tetrachloroethane		6.1	U	1.3	6.1
Tetrachloroethene		6.1	U	0.90	6.1
Toluene		6.1	U	0.72	6.1
1,1,1-Trichloroethane		6.1	U	0.89	6.1
1,1,2-Trichloroethane		6.1	U	1.1	6.1
Trichloroethene		6.1	U	1.2	6.1
Vinyl chloride		6.1	U	1.6	6.1
Xylenes, Total		6.1	U	3.0	6.1
cis-1,2-Dichloroethene		6.1	U	1.1	6.1
trans-1,2-Dichloroethene		6.1	U	1.2	6.1

Surrogate	%Rec	Acceptance Limits
1,2-Dichloroethane-d4 (Surr)	81	49 - 134
4-Bromofluorobenzene	44	36 - 133
Dibromofluoromethane	72	60 - 130
Toluene-d8 (Surr)	61	51 - 137

DB 1/8/08

EMM 1/9/08

Client: GEI Consultants, Inc.

Job Number: 220-3395-1
Sdg Number: 220-3395

Client Sample ID: **EHS-SS-04**

Lab Sample ID: 220-3395-11
Client Matrix: Solid

% Moisture: 18.2

Date Sampled: 11/14/2007 1135
Date Received: 11/15/2007 1634

8270C Semivolatile Compounds by Gas Chromatography/Mass Spectrometry (GC/MS)

Method: 8270C
Preparation: 3541
Dilution: 1.0
Date Analyzed: 11/29/2007 2315
Date Prepared: 11/27/2007 0953

Analysis Batch: 220-11486
Prep Batch: 220-11378

Instrument ID: HP 6890/5973 GC/MS
Lab File ID: U2190.D
Initial Weight/Volume: 15.29 g
Final Weight/Volume: 1 mL
Injection Volume: 1 uL

Analyte	DryWt Corrected: Y	Result (ug/Kg)	Qualifier	MDL	RL
Acenaphthene		400	U	69	400
Acenaphthylene		400	U	75	400
Anthracene		89	J J ✓	64	400
Benzo[a]anthracene		290	J J ✓	58	400
Benzo[a]pyrene		230	J J ✓	51	400
Benzo[b]fluoranthene		340	J ✓	68	400
Benzo[g,h,i]perylene		130	J J ✓	77	400
Benzo[k]fluoranthene		110	J J ✓	65	400
Bis(2-chloroethoxy)methane		400	U	64	400
Bis(2-chloroethyl)ether		400	U	190	400
Bis(2-ethylhexyl) phthalate		160	J J ✓	51	400
Butyl benzyl phthalate		81	J J ✓	55	400
Carbazole		400	U	67	400
Chrysene		440		70	400
Di-n-butyl phthalate		400	U	61	400
Di-n-octyl phthalate		400	U	62	400
4-Bromophenyl phenyl ether		400	U	64	400
4-Chloroaniline		400	U	53	400
2-Chloronaphthalene		400	U	69	400
4-Chlorophenyl phenyl ether		400	U	78	400
Dibenz(a,h)anthracene		400	U	60	400
Dibenzofuran		400	U	69	400
Diethyl phthalate		400	U	98	400
Dimethyl phthalate		400	U	70	400
1,2-Dichlorobenzene		400	U	63	400
1,3-Dichlorobenzene		400	U	64	400
1,4-Dichlorobenzene		400	U	62	400
3,3'-Dichlorobenzidine		790	U	44	790
2,4-Dinitrotoluene		400	U	60	400
2,6-Dinitrotoluene		400	U	160	400
Fluoranthene		500		66	400
Fluorene		400	U	67	400
Hexachlorobenzene		400	U	68	400
Hexachlorobutadiene		400	U	75	400
Hexachlorocyclopentadiene		400	U	56	400
Hexachloroethane		400	U	69	400
Indeno[1,2,3-cd]pyrene		150	J J ✓	70	400
Isophorone		400	U	81	400
2-Methylnaphthalene		400	U	73	400
Naphthalene		400	U	60	400
2-Nitroaniline		1900	U	53	1900
3-Nitroaniline		1900	U	56	1900
Nitrobenzene		400	U	73	400
N-Nitrosodi-n-propylamine		400	U	88	400

DS 1/8/08 EHM 1/10/08

Client: GEI Consultants, Inc.

Job Number: 220-3395-1
Sdg Number: 220-3395

Client Sample ID: EHS-SS-04

Lab Sample ID: 220-3395-11
Client Matrix: Solid
% Moisture: 18.2
Date Sampled: 11/14/2007 1135
Date Received: 11/15/2007 1634

8270C Semivolatile Compounds by Gas Chromatography/Mass Spectrometry (GC/MS)

Method: 8270C
Preparation: 3541
Dilution: 1.0
Date Analyzed: 11/29/2007 2315
Date Prepared: 11/27/2007 0953
Analysis Batch: 220-11486
Prep Batch: 220-11378
Instrument ID: HP 6890/5973 GC/MS
Lab File ID: U2190.D
Initial Weight/Volume: 15.29 g
Final Weight/Volume: 1 mL
Injection Volume: 1 uL

Analyte	DryWt Corrected: Y	Result (ug/Kg)	Qualifier	MDL	RL
N-Nitrosodiphenylamine		400	U	71	400
Phenanthrene		350		65	400
Pyrene		500		58	400
1,2,4-Trichlorobenzene		400	U	63	400
4-Chloro-3-methylphenol		400	U	79	400
2-Chlorophenol		400	U	85	400
2-Methylphenol		400	U	62	400
4-Methylphenol		400	U	59	400
2,4-Dichlorophenol		400	U	82	400
2,4-Dimethylphenol		400	U	53	400
2,4-Dinitrophenol		1900	U	260	1900
4,6-Dinitro-2-methylphenol		1900	U	310	1900
2-Nitrophenol		400	U	85	400
4-Nitrophenol		1900	U	180	1900
Pentachlorophenol		1900	U	28	1900
Phenol		400	U	47	400
2,4,5-Trichlorophenol		1900	U	60	1900
2,4,6-Trichlorophenol		400	U	58	400
Benzyl alcohol		400	U	82	400
4-Nitroaniline		790	U	59	790
2,2'-oxybis[1-chloropropane]		400	U	64	400

Surrogate	%Rec	Acceptance Limits
2-Fluorobiphenyl	91	32 - 131
2-Fluorophenol	70	25 - 113
2,4,6-Tribromophenol	73	24 - 150
Nitrobenzene-d5	83	25 - 120
Phenol-d5	81	27 - 122
Terphenyl-d14	73	35 - 140

DB 1/18/08

EHM 1/30/08

Client: GEI Consultants, Inc.

Job Number: 220-3395-1
Sdg Number: 220-3395

Client Sample ID: EHS-SS-04

Lab Sample ID: 220-3395-11
Client Matrix: Solid

% Moisture: 18.2

Date Sampled: 11/14/2007 1135
Date Received: 11/15/2007 1634

6010B Inductively Coupled Plasma - Atomic Emission Spectrometry

Method: 6010B
Preparation: 3050B
Dilution: 1.0
Date Analyzed: 11/21/2007 1619
Date Prepared: 11/19/2007 1407

Analysis Batch: 220-11308
Prep Batch: 220-11213

Instrument ID: TJA Trace ICAP
Lab File ID: W112107
Initial Weight/Volume: 1.15 g
Final Weight/Volume: 250 mL

Analyte	DryWt Corrected: Y	Result (mg/Kg)	Qualifier	MDL	RL
Silver		4.0	U	0.40	4.0
Aluminum		20400		12.2	133
Arsenic		38.1		1.8	10.6
Barium		324		0.29	2.7
Beryllium		2.0	J	0.61	2.7
Calcium		10200		16.5	266
Cadmium		6.6	U	1.2	6.6
Cobalt		10.6	J	0.69	2.7
Chromium		114		0.45	4.0
Copper		45.9		0.58	6.6
Iron		44400		13.0	79.7
Potassium		1720		31.9	266
Magnesium		3730	J	8.2	46.5
Manganese		96.3		0.88	8.0
Sodium		588	J	25.2	266
Nickel		31.8		0.58	6.6
Lead		1140		1.1	6.6
Antimony		13.3	U J	1.8	13.3
Selenium		4.6	J	2.2	13.3
Thallium		19.9	U	2.9	19.9
Vanadium		163		0.42	5.3
Zinc		81.9		2.9	26.6

7471A Mercury in Solid or Semisolid Waste (Manual Cold Vapor Technique)

Method: 7471A
Preparation: 7471A
Dilution: 1.0
Date Analyzed: 11/26/2007 1424
Date Prepared: 11/23/2007 1041

Analysis Batch: 220-11359
Prep Batch: 220-11309

Instrument ID: Perkin Elmer FIMS
Lab File ID: N/A
Initial Weight/Volume: 0.60 g
Final Weight/Volume: 50 mL

Analyte	DryWt Corrected: Y	Result (mg/Kg)	Qualifier	MDL	RL
Mercury		0.13		0.016	0.061

Dam 1/4/08

DG 1/8/08

Client: GEI Consultants, Inc.

Job Number: 220-3395-1
Sdg Number: 220-3395

Client Sample ID: EHS-SS-04

Lab Sample ID: 220-3395-11
Client Matrix: Solid

% Moisture: 18.2

Date Sampled: 11/14/2007 1135
Date Received: 11/15/2007 1634

8081A Organochlorine Pesticides by Gas Chromatography

Method: 8081A
Preparation: 3550B
Dilution: 1.0
Date Analyzed: 12/03/2007 2003
Date Prepared: 11/27/2007 1227

Analysis Batch: 220-11521
Prep Batch: 220-11392

Instrument ID: HP 5890 with dual ECD
Lab File ID: D7507059.D
Initial Weight/Volume: 30.83 g
Final Weight/Volume: 10.0 mL
Injection Volume: 1 uL
Column ID: PRIMARY

Analyte	DryWt Corrected: Y Result (ug/Kg)	Qualifier	MDL	RL
4,4'-DDD	3.9	UJ	0.45	3.9
4,4'-DDE	39		0.52	3.9
4,4'-DDT	75 J	M	0.37	3.9
Aldrin	2.4	U	0.42	2.4
alpha-BHC	2.0	U	0.33	2.0
beta-BHC	2.0	U	0.32	2.0
delta-BHC	0.45	J	0.12	2.0
Dieldrin	8.0 J	M	0.38	3.9
Endosulfan I	0.43	J	0.17	2.0
Endosulfan II	~~1.9~~ 3.9U	JM	0.20	3.9
Endosulfan sulfate	2.2 J	JM	0.21	3.9
Endrin	5.9	U	1.1	5.9
Endrin aldehyde	3.9	U	0.38	3.9
Endrin ketone	3.9	U	0.17	3.9
gamma-BHC (Lindane)	2.0	U	0.18	2.0
Heptachlor	2.0	U	0.18	2.0
Heptachlor epoxide	1.2	J	0.14	2.0
Methoxychlor	20	U	2.5	20
Toxaphene	80	U	2.1	80
alpha-Chlordane	~~1.3~~ 2.0U	J	0.13	2.0
gamma-Chlordane	~~1.1~~ 2.0U	JM	0.11	2.0

Surrogate	%Rec	Acceptance Limits
DCB Decachlorobiphenyl	119	25 - 159
Tetrachloro-m-xylene	109	24 - 154

Method: 8081A
Preparation: 3550B
Dilution: 1.0
Date Analyzed: 12/03/2007 2003
Date Prepared: 11/27/2007 1227

Analysis Batch: 220-11521
Prep Batch: 220-11392

Instrument ID: HP 5890 with dual ECD
Lab File ID: C7507059.D
Initial Weight/Volume: 30.83 g
Final Weight/Volume: 10.0 mL
Injection Volume: 1 uL
Column ID: SECONDARY

Surrogate	%Rec	Acceptance Limits
DCB Decachlorobiphenyl	200 *	25 - 159
Tetrachloro-m-xylene	107	24 - 154

DB 1/8/08

1/1/08

Client: GEI Consultants, Inc.

Job Number: 220-3395-1
Sdg Number: 220-3395

Client Sample ID: **EHS-SS-04**

Lab Sample ID: 220-3395-11
Client Matrix: Solid

% Moisture: 18.2

Date Sampled: 11/14/2007 1135
Date Received: 11/15/2007 1634

8082 Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Method: 8082
Preparation: 3550B
Dilution: 1.0
Date Analyzed: 11/30/2007 0112
Date Prepared: 11/27/2007 1227

Analysis Batch: 220-11497
Prep Batch: 220-11392

Instrument ID: HP 5890 with dual ECD
Lab File ID: D4663129.d
Initial Weight/Volume: 30.83 g
Final Weight/Volume: 10.0 mL
Injection Volume: 1 uL
Column ID: PRIMARY

do not report

Analyte	DryWt Corrected: Y	Result (ug/Kg)	Qualifier	MDL	RL
PCB-1016		20	UJ	3.3	20
PCB-1221		39	U	1.8	39
PCB-1232		20	U	2.2	20
PCB-1242		20	U	3.6	20
PCB-1248		20	U	3.2	20
PCB-1254		20	U	1.4	20
PCB-1260		20	UJ	4.7	20

Surrogate	%Rec		Acceptance Limits
Tetrachloro-m-xylene	12	*	24 - 154
DCB Decachlorobiphenyl	16	*	25 - 159

12/18/07

Analytical Data

Client: GEI Consultants, Inc.

Job Number: 220-3395-1
Sdg Number: 220-3395

Client Sample ID: **EHS-SS-04**

Lab Sample ID: 220-3395-11
Client Matrix: Solid

% Moisture: 18.2

Date Sampled: 11/14/2007 1135
Date Received: 11/15/2007 1634

8082 Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Method: 8082
Preparation: 3550B
Dilution: 1.0
Date Analyzed: 12/04/2007 0108
Date Prepared: 12/03/2007 1539

Analysis Batch: 220-11552
Prep Batch: 220-11532

Run Type: RE

Instrument ID: HP 5890 with dual ECD
Lab File ID: D4664075.d
Initial Weight/Volume: 30.63 g
Final Weight/Volume: 10 mL
Injection Volume: 1 uL
Column ID: SECONDARY

Analyte	DryWt Corrected: Y Result (ug/Kg)	Qualifier	MDL	RL
PCB-1016	20 UJ	~~U H~~	3.4	20
PCB-1221	39	U H	1.8	39
PCB-1232	20	U H	2.2	20
PCB-1242	20	U H	3.6	20
PCB-1248	20 UJ	U H	3.2	20
PCB-1254	45 J	H M	1.4	20
PCB-1260	27 J	~~H M~~	4.8	20

Surrogate	%Rec	Acceptance Limits
Tetrachloro-m-xylene	91	24 - 154
Tetrachloro-m-xylene	97	24 - 154
DCB Decachlorobiphenyl	98	25 - 159
DCB Decachlorobiphenyl	92	25 - 159

DP 1/18/08

12/18/07

TestAmerica Connecticut

Client Sample ID: EHS-SS-04

GC Semivolatiles

Lot-Sample #...:	A7K170204-011	Work Order #...:	KCH5W1AC	Matrix.....:	SO
Date Sampled...:	11/14/07 11:15	Date Received..:	11/17/07		
Prep Date.....:	11/26/07	Analysis Date..:	11/27/07		
Prep Batch #...:	7330014				
Dilution Factor:	1	Initial Wgt/Vol:	50.06 g	Final Wgt/Vol..:	100 mL
% Moisture.....:	20	Method.....:	SW846 8151A		

PARAMETER	RESULT	REPORTING LIMIT	UNITS	MDL
2,4-D	ND	100	ug/kg	45
2,4,5-TP	ND	25	ug/kg	2.8
2,4,5-T	ND	25	ug/kg	4.0

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
2,4-Dichlorophenylacetic acid	98	(19 - 122)

NOTE(S):

Results and reporting limits have been adjusted for dry weight.

DB 11/18/08

EMM 1/10/08

TestAmerica Connecticut

Client Sample ID: EHS-SS-04

General Chemistry

Lot-Sample #...: A7K170204-011 Work Order #...: KCH5W Matrix.....: SO
Date Sampled...: 11/14/07 11:15 Date Received..: 11/17/07
% Moisture.....: 20

PARAMETER	RESULT	RL	UNITS	METHOD	PREPARATION-ANALYSIS DATE	PREP BATCH #
Acid-soluble sulfide	20.4 B J ✓	37.6	mg/kg	SW846 9030B/9034	11/21/07	7325534
		Dilution Factor: 1		MDL.....: 7.0		
Percent Solids	79.9	10.0	%	MCAWW 160.3 MOD	11/26-11/27/07	7330572
		Dilution Factor: 1		MDL.....: 10.0		

NOTE(S):

RL Reporting Limit

Results and reporting limits have been adjusted for dry weight.

B Estimated result. Result is less than RL.

JAM 1/21/08

Client: GEI Consultants, Inc.

Job Number: 220-3395-1
Sdg Number: 220-3395

Client Sample ID: EHS-SS-05

Lab Sample ID: 220-3395-12
Client Matrix: Solid

% Moisture: 18.6

Date Sampled: 11/14/2007 1315
Date Received: 11/15/2007 1634

8260B Volatile Organic Compounds by GC/MS

Method: 8260B
Preparation: 5030B
Dilution: 1.0
Date Analyzed: 11/26/2007 1643
Date Prepared: 11/26/2007 1643

Analysis Batch: 220-11399

Instrument ID: HP 5890/5971A GC/MS
Lab File ID: N6135.D
Initial Weight/Volume: 5 g
Final Weight/Volume: 5 mL

Analyte	DryWt Corrected: Y	Result (ug/Kg)	Qualifier	MDL	RL
Acetone	✓ 25 U	~~6.0~~	~~J B~~ U J	2.9	25
Benzene		6.1	U UJ	0.87	6.1
Bromodichloromethane		6.1	U UJ	0.80	6.1
Bromoform		6.1	U UJ	2.1	6.1
Bromomethane		6.1	U UJ	1.9	6.1
Methyl Ethyl Ketone		12	U UJ	4.1	12
Carbon disulfide		6.1	U UJ	0.65	6.1
Carbon tetrachloride		6.1	U UJ	0.87	6.1
Chlorobenzene		6.1	U UJ	1.1	6.1
Chloroethane		6.1	U UJ	1.6	6.1
Chloroform		6.1	U UJ	0.65	6.1
Chloromethane		6.1	U UJ	1.2	6.1
Dibromochloromethane		6.1	U UJ	1.3	6.1
1,1-Dichloroethane		6.1	U UJ	0.80	6.1
1,2-Dichloroethane		6.1	U UJ	1.3	6.1
1,1-Dichloroethene		6.1	U UJ	0.97	6.1
1,2-Dichloropropane		6.1	U UJ	1.2	6.1
cis-1,3-Dichloropropene		6.1	U UJ	0.76	6.1
trans-1,3-Dichloropropene		6.1	U UJ	1.3	6.1
Ethylbenzene		6.1	U UJ	0.87	6.1
2-Hexanone		12	U UJ	3.2	12
Methylene Chloride	25 U ✓	~~2.5~~	~~J~~ UJ	1.7	25
methyl isobutyl ketone		6.1	U UJ	1.2	6.1
Styrene		6.1	U UJ	1.6	6.1
1,1,2,2-Tetrachloroethane		6.1	U UJ	1.3	6.1
Tetrachloroethene		6.1	U UJ	0.91	6.1
Toluene		6.1	U UJ	0.72	6.1
1,1,1-Trichloroethane		6.1	U UJ	0.90	6.1
1,1,2-Trichloroethane		6.1	U UJ	1.1	6.1
Trichloroethene		6.1	U UJ	1.2	6.1
Vinyl chloride		6.1	U UJ	1.6	6.1
Xylenes, Total		6.1	U UJ	3.0	6.1
cis-1,2-Dichloroethene		6.1	U UJ	1.1	6.1
trans-1,2-Dichloroethene		6.1	U UJ	1.2	6.1

Surrogate	%Rec		Acceptance Limits
1,2-Dichloroethane-d4 (Surr)	70		49 - 134
4-Bromofluorobenzene	26	*	36 - 133
Dibromofluoromethane	61		60 - 130
Toluene-d8 (Surr)	46	*	51 - 137

DB 1/18/08

EMM 1/9/08

Client: GEI Consultants, Inc.

Job Number: 220-3395-1
Sdg Number: 220-3395

Client Sample ID: EHS-SS-05

Lab Sample ID: 220-3395-12
Client Matrix: Solid

% Moisture: 18.6

Date Sampled: 11/14/2007 1315
Date Received: 11/15/2007 1634

8270C Semivolatile Compounds by Gas Chromatography/Mass Spectrometry (GC/MS)

Method: 8270C
Preparation: 3541
Dilution: 1.0
Date Analyzed: 11/29/2007 2117
Date Prepared: 11/27/2007 0953

Analysis Batch: 220-11486
Prep Batch: 220-11378

Instrument ID: HP 6890/5973 GC/MS
Lab File ID: U2185.D
Initial Weight/Volume: 15.74 g
Final Weight/Volume: 1 mL
Injection Volume: 1 uL

Analyte	DryWt Corrected: Y	Result (ug/Kg)	Qualifier	MDL	RL
Acenaphthene		390	U	68	390
Acenaphthylene		390	U	73	390
Anthracene		390	U M ✓	62	390
Benzo[a]anthracene		190	J J ✓	56	390
Benzo[a]pyrene		150	J J ✓	49	390
Benzo[b]fluoranthene		220	J J ✓	66	390
Benzo[g,h,i]perylene		180	J J ✓	75	390
Benzo[k]fluoranthene		76	J J ✓	63	390
Bis(2-chloroethoxy)methane		390	U	62	390
Bis(2-chloroethyl)ether		390	U	190	390
Bis(2-ethylhexyl) phthalate		390	U	49	390
Butyl benzyl phthalate		390	U	54	390
Carbazole		390	U	66	390
Chrysene		270	J J ✓	68	390
Di-n-butyl phthalate		390	U	60	390
Di-n-octyl phthalate		390	U	61	390
4-Bromophenyl phenyl ether		390	U	62	390
4-Chloroaniline		390	U	52	390
2-Chloronaphthalene		390	U	67	390
4-Chlorophenyl phenyl ether		390	U	76	390
Dibenz(a,h)anthracene		390	U	59	390
Dibenzofuran		390	U	68	390
Diethyl phthalate		390	U	96	390
Dimethyl phthalate		390	U	68	390
1,2-Dichlorobenzene		390	U	61	390
1,3-Dichlorobenzene		390	U	62	390
1,4-Dichlorobenzene		390	U	60	390
3,3'-Dichlorobenzidine		770	U	43	770
2,4-Dinitrotoluene		390	U	59	390
2,6-Dinitrotoluene		390	U	150	390
Fluoranthene		310	J J ✓	64	390
Fluorene		390	U	66	390
Hexachlorobenzene		390	U	67	390
Hexachlorobutadiene		390	U	74	390
Hexachlorocyclopentadiene		390	U	55	390
Hexachloroethane		390	U	67	390
Indeno[1,2,3-cd]pyrene		170	J J ✓	68	390
Isophorone		390	U	79	390
2-Methylnaphthalene		390	U	71	390
Naphthalene		390	U	59	390
2-Nitroaniline		1900	U	52	1900
3-Nitroaniline		1900	U	55	1900
Nitrobenzene		390	U	71	390
N-Nitrosodi-n-propylamine		390	U	86	390

DB 1/18/08 EHM 1/10/08

Client: GEI Consultants, Inc.

Job Number: 220-3395-1
Sdg Number: 220-3395

Client Sample ID: EHS-SS-05

Lab Sample ID: 220-3395-12
Client Matrix: Solid
% Moisture: 18.6
Date Sampled: 11/14/2007 1315
Date Received: 11/15/2007 1634

8270C Semivolatile Compounds by Gas Chromatography/Mass Spectrometry (GC/MS)

Method: 8270C
Preparation: 3541
Dilution: 1.0
Date Analyzed: 11/29/2007 2117
Date Prepared: 11/27/2007 0953
Analysis Batch: 220-11486
Prep Batch: 220-11378
Instrument ID: HP 6890/5973 GC/MS
Lab File ID: U2185.D
Initial Weight/Volume: 15.74 g
Final Weight/Volume: 1 mL
Injection Volume: 1 uL

Analyte	DryWt Corrected: Y	Result (ug/Kg)	Qualifier	MDL	RL
N-Nitrosodiphenylamine		390	U	70	390
Phenanthrene		320		64	390
Pyrene		390		57	390
1,2,4-Trichlorobenzene		390	U	62	390
4-Chloro-3-methylphenol		390	U	77	390
2-Chlorophenol		390	U	83	390
2-Methylphenol		390	U	61	390
4-Methylphenol		390	U	58	390
2,4-Dichlorophenol		390	U	80	390
2,4-Dimethylphenol		390	U	52	390
2,4-Dinitrophenol		1900	U	250	1900
4,6-Dinitro-2-methylphenol		1900	U	300	1900
2-Nitrophenol		390	U	83	390
4-Nitrophenol		1900	U	180	1900
Pentachlorophenol		1900	U	27	1900
Phenol		390	U	46	390
2,4,5-Trichlorophenol		1900	U	59	1900
2,4,6-Trichlorophenol		390	U	56	390
Benzyl alcohol		390	U	80	390
4-Nitroaniline		770	U	58	770
2,2'-oxybis[1-chloropropane]		390	U	62	390

Surrogate	%Rec	Acceptance Limits
2-Fluorobiphenyl	77	32 - 131
2-Fluorophenol	60	25 - 113
2,4,6-Tribromophenol	53	24 - 150
Nitrobenzene-d5	71	25 - 120
Phenol-d5	70	27 - 122
Terphenyl-d14	93	35 - 140

Client: GEI Consultants, Inc.

Job Number: 220-3395-1
Sdg Number: 220-3395

Client Sample ID: EHS-SS-05

Lab Sample ID: 220-3395-12
Client Matrix: Solid

% Moisture: 18.6

Date Sampled: 11/14/2007 1315
Date Received: 11/15/2007 1634

6010B Inductively Coupled Plasma - Atomic Emission Spectrometry

Method: 6010B
Preparation: 3050B
Dilution: 1.0
Date Analyzed: 11/21/2007 1624
Date Prepared: 11/19/2007 1407

Analysis Batch: 220-11308
Prep Batch: 220-11213

Instrument ID: TJA Trace ICAP
Lab File ID: W112107
Initial Weight/Volume: 1.19 g
Final Weight/Volume: 250 mL

Analyte	DryWt Corrected: Y	Result (mg/Kg)	Qualifier	MDL	RL
Silver		3.9	U	0.39	3.9
Aluminum		9670		11.9	129
Arsenic		205		1.8	10.3
Barium		101		0.28	2.6
Beryllium		2.4	J ✓	0.59	2.6
Calcium		5790		16.0	258
Cadmium		6.4	U	1.2	6.4
Cobalt		7.8 J ✓		0.67	2.6
Chromium		29.1		0.44	3.9
Copper		101		0.57	6.4
Iron		21900		12.6	77.4
Potassium		631 J ✓		31.0	258
Magnesium		2500 J ✓		8.0	45.1
Manganese		150		0.85	7.7
Sodium		229	J ✓	24.5	258
Nickel		20.2		0.57	6.4
Lead		1220		1.1	6.4
Antimony		12.9	UJ ✓	1.8	12.9
Selenium		15.8		2.1	12.9
Thallium		~~5.4~~ 19.3 U ✓	J+	2.8	19.3
Vanadium		57.9		0.41	5.2
Zinc		190		2.8	25.8

7471A Mercury in Solid or Semisolid Waste (Manual Cold Vapor Technique)

Method: 7471A
Preparation: 7471A
Dilution: 1.0
Date Analyzed: 11/26/2007 1426
Date Prepared: 11/23/2007 1041

Analysis Batch: 220-11359
Prep Batch: 220-11309

Instrument ID: Perkin Elmer FIMS
Lab File ID: N/A
Initial Weight/Volume: 0.61 g
Final Weight/Volume: 50 mL

Analyte	DryWt Corrected: Y	Result (mg/Kg)	Qualifier	MDL	RL
Mercury		0.39		0.015	0.060

1/2/08

DB 1/18/08

Client: GEI Consultants, Inc.

Job Number: 220-3395-1
Sdg Number: 220-3395

Client Sample ID: **EHS-SS-05**

Lab Sample ID: 220-3395-12
Client Matrix: Solid

% Moisture: 18.6

Date Sampled: 11/14/2007 1315
Date Received: 11/15/2007 1634

8081A Organochlorine Pesticides by Gas Chromatography

Method: 8081A
Preparation: 3550B
Dilution: 1.0
Date Analyzed: 12/03/2007 2024
Date Prepared: 11/27/2007 1227

Analysis Batch: 220-11521
Prep Batch: 220-11392

Instrument ID: HP 5890 with dual ECD
Lab File ID: D7507060.D
Initial Weight/Volume: 30.12 g
Final Weight/Volume: 10.0 mL
Injection Volume: 1 uL
Column ID: PRIMARY

Analyte	DryWt Corrected: Y	Result (ug/Kg)	Qualifier	MDL	RL
4,4'-DDD		4.0	UJ ✓	0.47	4.0
4,4'-DDE		9.5	~~M~~ ✓	0.53	4.0
4,4'-DDT		25 J ✓	~~M~~	0.38	4.0
Aldrin		2.4	U	0.44	2.4
alpha-BHC		2.1	U	0.34	2.1
beta-BHC		2.1	U	0.33	2.1
delta-BHC		2.1	U	0.13	2.1
Dieldrin		~~2.2~~ 4.0U ✓	~~J M~~	0.39	4.0
Endosulfan I		2.1	U	0.18	2.1
Endosulfan II		4.0	U	0.21	4.0
Endosulfan sulfate		3.0 J ✓	~~J M~~	0.21	4.0
Endrin		6.1	U	1.1	6.1
Endrin aldehyde		4.0	U	0.40	4.0
Endrin ketone		4.0	U	0.18	4.0
gamma-BHC (Lindane)		2.1	U	0.19	2.1
Heptachlor		2.1	U	0.18	2.1
Heptachlor epoxide		0.81 J ✓	~~J M~~	0.14	2.1
Methoxychlor		21	U	2.6	21
Toxaphene		82	U	2.1	82
alpha-Chlordane		2.1	U	0.13	2.1
gamma-Chlordane		~~0.32~~ 2.1 U ✓	~~J M~~	0.11	2.1

Surrogate	%Rec	Acceptance Limits
DCB Decachlorobiphenyl	148	25 - 159
Tetrachloro-m-xylene	98	24 - 154

Method: 8081A
Preparation: 3550B
Dilution: 1.0
Date Analyzed: 12/03/2007 2024
Date Prepared: 11/27/2007 1227

Analysis Batch: 220-11521
Prep Batch: 220-11392

Instrument ID: HP 5890 with dual ECD
Lab File ID: D7507060.D
Initial Weight/Volume: 30.12 g
Final Weight/Volume: 10.0 mL
Injection Volume: 1 uL
Column ID: SECONDARY

Surrogate	%Rec	Acceptance Limits
DCB Decachlorobiphenyl	101	25 - 159
Tetrachloro-m-xylene	95	24 - 154

DB 1/18/08

Dam 1/11/08

Client: GEI Consultants, Inc.

Job Number: 220-3395-1
Sdg Number: 220-3395

Client Sample ID: **EHS-SS-05**

Lab Sample ID: 220-3395-12
Client Matrix: Solid

% Moisture: 18.6

Date Sampled: 11/14/2007 1315
Date Received: 11/15/2007 1634

8082 Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Method: 8082
Preparation: 3550B
Dilution: 1.0
Date Analyzed: 11/30/2007 0128
Date Prepared: 11/27/2007 1227

Analysis Batch: 220-11497
Prep Batch: 220-11392

Instrument ID: HP 5890 with dual ECD
Lab File ID: D4663130.d
Initial Weight/Volume: 30.12 g
Final Weight/Volume: 10.0 mL
Injection Volume: 1 uL
Column ID: PRIMARY

Analyte	DryWt Corrected: Y	Result (ug/Kg)	Qualifier	MDL	RL
PCB-1016		21	U	3.4	21
PCB-1221		40	U	1.9	40
PCB-1232		21	U	2.3	21
PCB-1242		21	U	3.7	21
PCB-1248		21	U	3.3	21
PCB-1254		21	U	1.5	21
PCB-1260		21	U	4.9	21

Surrogate	%Rec	Acceptance Limits
Tetrachloro-m-xylene	78	24 - 154
DCB Decachlorobiphenyl	91	25 - 159

DB 1/18/08

12/31/07

TestAmerica Connecticut

Client Sample ID: EHS-SS-05

GC Semivolatiles

Lot-Sample #...:	A7K170204-012	Work Order #...:	KCH5X1AC	Matrix.....:	SO
Date Sampled...:	11/14/07 11:35	Date Received..:	11/17/07		
Prep Date.....:	11/26/07	Analysis Date..:	11/27/07		
Prep Batch #...:	7330014				
Dilution Factor:	1	Initial Wgt/Vol:	50.02 g	Final Wgt/Vol..:	100 mL
% Moisture.....:	37	Method.....:	SW846 8151A		

PARAMETER	RESULT	REPORTING LIMIT	UNITS	MDL
2,4,5-T	ND	32	ug/kg	5.1
2,4-D	ND	130	ug/kg	57
2,4,5-TP	ND	32	ug/kg	3.5

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
2,4-Dichlorophenylacetic acid	63	(19 - 122)

NOTE(S):

Results and reporting limits have been adjusted for dry weight.

DP 1/18/08

EMM 1/30/08

TestAmerica Connecticut

Client Sample ID: EHS-SS-05

General Chemistry

Lot-Sample #...: A7K170204-012 Work Order #...: KCH5X Matrix.....: SO
Date Sampled...: 11/14/07 11:35 Date Received..: 11/17/07
% Moisture.....: 37

PARAMETER	RESULT	RL	UNITS	METHOD	PREPARATION-ANALYSIS DATE	PREP BATCH #
Acid-soluble sulfide	10.9 B J	47.4	mg/kg	SW846 9030B/9034	11/21/07	7325534
		Dilution Factor: 1		MDL.....: 8.8		
Percent Solids	63.3	10.0	%	MCAWW 160.3 MOD	11/26-11/27/07	7330572
		Dilution Factor: 1		MDL.....: 10.0		

NOTE(S):

RL Reporting Limit

Results and reporting limits have been adjusted for dry weight.

B Estimated result. Result is less than RL.

1/2/08

Client: GEI Consultants, Inc.

Job Number: 220-3395-1
Sdg Number: 220-3395

Client Sample ID: EHS-SS-06

Lab Sample ID: 220-3395-13
Client Matrix: Solid

% Moisture: 8.4

Date Sampled: 11/14/2007 1335
Date Received: 11/15/2007 1634

8260B Volatile Organic Compounds by GC/MS

Method: 8260B
Preparation: 5030B
Dilution: 1.0
Date Analyzed: 11/25/2007 1505
Date Prepared: 11/25/2007 1505

Analysis Batch: 220-11327

Instrument ID: HP 5890/5971A GC/MS
Lab File ID: N6099.D
Initial Weight/Volume: 5 g
Final Weight/Volume: 5 mL

Analyte	DryWt Corrected: Y	Result (ug/Kg)	Qualifier	MDL	RL
Acetone		22	U	2.6	22
Benzene		5.5	U	0.77	5.5
Bromodichloromethane		5.5	U	0.71	5.5
Bromoform		5.5	U	1.9	5.5
Bromomethane		5.5	U	1.7	5.5
Methyl Ethyl Ketone		11	U	3.7	11
Carbon disulfide		5.5	U	0.58	5.5
Carbon tetrachloride		5.5	U	0.77	5.5
Chlorobenzene		5.5	U	0.96	5.5
Chloroethane		5.5	U	1.4	5.5
Chloroform		5.5	U	0.58	5.5
Chloromethane		5.5	U	1.1	5.5
Dibromochloromethane		5.5	U	1.2	5.5
1,1-Dichloroethane		5.5	U	0.71	5.5
1,2-Dichloroethane		5.5	U	1.2	5.5
1,1-Dichloroethene		5.5	U	0.86	5.5
1,2-Dichloropropane		5.5	U	1.1	5.5
cis-1,3-Dichloropropene		5.5	U	0.68	5.5
trans-1,3-Dichloropropene		5.5	U	1.2	5.5
Ethylbenzene		5.5	U	0.77	5.5
2-Hexanone		11	U	2.9	11
Methylene Chloride		~~8.2~~ 22	~~J~~ U	1.5	22
methyl isobutyl ketone		5.5	U	1.0	5.5
Styrene		5.5	U	1.4	5.5
1,1,2,2-Tetrachloroethane		5.5	U	1.1	5.5
Tetrachloroethene		5.5	U	0.81	5.5
Toluene		5.5	U	0.64	5.5
1,1,1-Trichloroethane		5.5	U	0.80	5.5
1,1,2-Trichloroethane		5.5	U	0.95	5.5
Trichloroethene		5.5	U	1.1	5.5
Vinyl chloride		5.5	U	1.4	5.5
Xylenes, Total		5.5	U	2.7	5.5
cis-1,2-Dichloroethene		5.5	U	1.0	5.5
trans-1,2-Dichloroethene		5.5	U	1.0	5.5

Surrogate	%Rec	Acceptance Limits
1,2-Dichloroethane-d4 (Surr)	79	49 - 134
4-Bromofluorobenzene	62	36 - 133
Dibromofluoromethane	79	60 - 130
Toluene-d8 (Surr)	74	51 - 137

Client: GEI Consultants, Inc.

Job Number: 220-3395-1
Sdg Number: 220-3395

Client Sample ID: EHS-SS-06

Lab Sample ID: 220-3395-13
Client Matrix: Solid
% Moisture: 8.4
Date Sampled: 11/14/2007 1335
Date Received: 11/15/2007 1634

8270C Semivolatile Compounds by Gas Chromatography/Mass Spectrometry (GC/MS)

Method: 8270C
Preparation: 3541
Dilution: 1.0
Date Analyzed: 11/30/2007 1638
Date Prepared: 11/28/2007 2045
Analysis Batch: 220-11514
Prep Batch: 220-11441
Instrument ID: HP 6890/5975
Lab File ID: A7764.D
Initial Weight/Volume: 15.07 g
Final Weight/Volume: 1.0 mL
Injection Volume: 1 uL

Analyte	DryWt Corrected: Y	Result (ug/Kg)	Qualifier	MDL	RL
Acenaphthene		360	U	63	360
Acenaphthylene		360	U	68	360
Anthracene		360	U	58	360
Benzo[a]anthracene		100	J J ✓	52	360
Benzo[a]pyrene		110	J J ✓	46	360
Benzo[b]fluoranthene		160	J J ✓	61	360
Benzo[g,h,i]perylene		92	J J ✓	70	360
Benzo[k]fluoranthene		62	J J ✓	59	360
Bis(2-chloroethoxy)methane		360	U	58	360
Bis(2-chloroethyl)ether		360	U	180	360
Bis(2-ethylhexyl) phthalate		360	U	46	360
Butyl benzyl phthalate		360	U	50	360
Carbazole		360	U	61	360
Chrysene		120	J J ✓	63	360
Di-n-butyl phthalate		360	U	55	360
Di-n-octyl phthalate		360	U	57	360
4-Bromophenyl phenyl ether		360	U	58	360
4-Chloroaniline		360	U	48	360
2-Chloronaphthalene		360	U	62	360
4-Chlorophenyl phenyl ether		360	U	70	360
Dibenz(a,h)anthracene		360	U	54	360
Dibenzofuran		360	U	63	360
Diethyl phthalate		360	U	89	360
Dimethyl phthalate		360	U	63	360
1,2-Dichlorobenzene		360	U	57	360
1,3-Dichlorobenzene		360	U	58	360
1,4-Dichlorobenzene		360	U	56	360
3,3'-Dichlorobenzidine		720	U	40	720
2,4-Dinitrotoluene		360	U	55	360
2,6-Dinitrotoluene		360	U	140	360
Fluoranthene		160	J J ✓	59	360
Fluorene		360	U	61	360
Hexachlorobenzene		360	U	62	360
Hexachlorobutadiene		360	U	68	360
Hexachlorocyclopentadiene		360	U	51	360
Hexachloroethane		360	U	62	360
Indeno[1,2,3-cd]pyrene		98	J J ✓	64	360
Isophorone		360	U	74	360
2-Methylnaphthalene		360	U	66	360
Naphthalene		360	U	55	360
2-Nitroaniline		1700	U	48	1700
3-Nitroaniline		1700	U	51	1700
Nitrobenzene		360	U	66	360
N-Nitrosodi-n-propylamine		360	U	80	360

DG 1/18/08
EHM 1/10/08

Client: GEI Consultants, Inc.

Job Number: 220-3395-1
Sdg Number: 220-3395

Client Sample ID: EHS-SS-06

Lab Sample ID: 220-3395-13
Client Matrix: Solid
% Moisture: 8.4
Date Sampled: 11/14/2007 1335
Date Received: 11/15/2007 1634

8270C Semivolatile Compounds by Gas Chromatography/Mass Spectrometry (GC/MS)

Method: 8270C
Preparation: 3541
Dilution: 1.0
Date Analyzed: 11/30/2007 1638
Date Prepared: 11/28/2007 2045
Analysis Batch: 220-11514
Prep Batch: 220-11441
Instrument ID: HP 6890/5975
Lab File ID: A7764.D
Initial Weight/Volume: 15.07 g
Final Weight/Volume: 1.0 mL
Injection Volume: 1 uL

Analyte	DryWt Corrected: Y	Result (ug/Kg)	Qualifier	MDL	RL
N-Nitrosodiphenylamine		360	U	65	360
Phenanthrene		76	J J ✓	59	360
Pyrene		180	J J ✓	52	360
1,2,4-Trichlorobenzene		360	U	57	360
4-Chloro-3-methylphenol		360	U	72	360
2-Chlorophenol		360	U	77	360
2-Methylphenol		360	U	57	360
4-Methylphenol		360	U	54	360
2,4-Dichlorophenol		360	U	74	360
2,4-Dimethylphenol		360	U	48	360
2,4-Dinitrophenol		1700	U	240	1700
4,6-Dinitro-2-methylphenol		1700	U	280	1700
2-Nitrophenol		360	U	77	360
4-Nitrophenol		1700	U	160	1700
Pentachlorophenol		1700	U	25	1700
Phenol		360	U	43	360
2,4,5-Trichlorophenol		1700	U	54	1700
2,4,6-Trichlorophenol		360	U	52	360
Benzyl alcohol		360	U	74	360
4-Nitroaniline		720	U	54	720
2,2'-oxybis[1-chloropropane]		360	U	58	360

Surrogate	%Rec	Acceptance Limits
2-Fluorobiphenyl	66	32 - 131
2-Fluorophenol	68	25 - 113
2,4,6-Tribromophenol	65	24 - 150
Nitrobenzene-d5	67	25 - 120
Phenol-d5	70	27 - 122
Terphenyl-d14	74	35 - 140

DB 1/18/08 EMM 1/10/08

Client: GEI Consultants, Inc.

Job Number: 220-3395-1
Sdg Number: 220-3395

Client Sample ID: EHS-SS-06

Lab Sample ID: 220-3395-13
Client Matrix: Solid

% Moisture: 8.4

Date Sampled: 11/14/2007 1335
Date Received: 11/15/2007 1634

6010B Inductively Coupled Plasma - Atomic Emission Spectrometry

Method: 6010B
Preparation: 3050B
Dilution: 1.0
Date Analyzed: 12/07/2007 1807
Date Prepared: 12/05/2007 0930

Analysis Batch: 220-11696
Prep Batch: 220-11587

Instrument ID: TJA Trace ICAP
Lab File ID: W120707
Initial Weight/Volume: 1.20 g
Final Weight/Volume: 250 mL

Analyte	DryWt Corrected: Y	Result (mg/Kg)	Qualifier	MDL	RL
Silver		3.4	U	0.34	3.4
Aluminum		6290		10.5	114
Arsenic		12.9		1.5	9.1
Barium		22.4	J ✓	0.25	2.3
Beryllium		2.3	U	0.52	2.3
Calcium		5730		14.1	227
Cadmium		5.7	U	1.0	5.7
Cobalt		2.2	J ✓	0.59	2.3
Chromium		9.3		0.39	3.4
Copper		24.3		0.50	5.7
Iron		7880		11.1	68.2
Potassium		252	J ✓	27.3	227
Magnesium		3450		7.0	39.8
Manganese		65.1		0.75	6.8
Sodium		75.4	J ✓	21.6	227
Nickel		4.8	J ✓	0.50	5.7
Lead		103		0.95	5.7
Antimony		11.4	UJ ✓	1.6	11.4
Selenium		11.4	U	1.9	11.4
Thallium		17.1	U	2.5	17.1
Vanadium		14.8		0.36	4.5
Zinc		29.8		2.5	22.7

7471A Mercury in Solid or Semisolid Waste (Manual Cold Vapor Technique)

Method: 7471A
Preparation: 7471A
Dilution: 1.0
Date Analyzed: 11/26/2007 1427
Date Prepared: 11/23/2007 1041

Analysis Batch: 220-11359
Prep Batch: 220-11309

Instrument ID: Perkin Elmer FIMS
Lab File ID: N/A
Initial Weight/Volume: 0.61 g
Final Weight/Volume: 50 mL

Analyte	DryWt Corrected: Y	Result (mg/Kg)	Qualifier	MDL	RL
Mercury		0.12		0.014	0.054

DB 1/8/08

Jam 1/2/08

Client: GEI Consultants, Inc.

Job Number: 220-3395-1
Sdg Number: 220-3395

Client Sample ID: EHS-SS-06

Lab Sample ID: 220-3395-13
Client Matrix: Solid

% Moisture: 8.4

Date Sampled: 11/14/2007 1335
Date Received: 11/15/2007 1634

8081A Organochlorine Pesticides by Gas Chromatography

Method: 8081A
Preparation: 3550B
Dilution: 5.0
Date Analyzed: 12/03/2007 2046
Date Prepared: 11/27/2007 1227

Analysis Batch: 220-11521
Prep Batch: 220-11392

Instrument ID: HP 5890 with dual ECD
Lab File ID: C7507061.D
Initial Weight/Volume: 30.08 g
Final Weight/Volume: 10.0 mL
Injection Volume: 1 uL
Column ID: PRIMARY

DryWt Corrected: Y

Analyte	Result (ug/Kg)	Qualifier	MDL	RL
4,4'-DDD	~~7.3~~ 18 UJ	~~J M~~	2.1	18
4,4'-DDE	78	~~M~~	2.4	18
4,4'-DDT	110 J		1.7	18
Aldrin	11	U	1.9	11
alpha-BHC	9.3	U	1.5	9.3
beta-BHC	9.3	U	1.5	9.3
delta-BHC	9.3	U	0.56	9.3
Dieldrin	6.2 J	~~J M~~	1.7	18
Endosulfan I	9.3	U	0.80	9.3
Endosulfan II	18	U	0.93	18
Endosulfan sulfate	18	U	0.94	18
Endrin	27	U	4.8	27
Endrin aldehyde	18	U	1.8	18
Endrin ketone	18	U	0.78	18
gamma-BHC (Lindane)	9.3	U	0.83	9.3
Heptachlor	9.3	U	0.82	9.3
Heptachlor epoxide	9.3	U	0.62	9.3
Methoxychlor	93	U	12	93
Toxaphene	360	U	9.5	360
alpha-Chlordane	9.3	U	0.60	9.3
gamma-Chlordane	~~4.6 J~~ 9.3U	~~J M~~	0.50	9.3

Surrogate	%Rec	Acceptance Limits
DCB Decachlorobiphenyl	191	25 - 159
Tetrachloro-m-xylene	134	24 - 154

Method: 8081A
Preparation: 3550B
Dilution: 5.0
Date Analyzed: 12/03/2007 2046
Date Prepared: 11/27/2007 1227

Analysis Batch: 220-11521
Prep Batch: 220-11392

Instrument ID: HP 5890 with dual ECD
Lab File ID: D7507061.D
Initial Weight/Volume: 30.08 g
Final Weight/Volume: 10.0 mL
Injection Volume: 1 uL
Column ID: SECONDARY

Surrogate	%Rec	Acceptance Limits
DCB Decachlorobiphenyl	130	25 - 159
Tetrachloro-m-xylene	112	24 - 154

DB 1/18/08

Dam 1/1/08

Client: GEI Consultants, Inc.

Job Number: 220-3395-1
Sdg Number: 220-3395

Client Sample ID: **EHS-SS-06**

Lab Sample ID: 220-3395-13
Client Matrix: Solid

% Moisture: 8.4

Date Sampled: 11/14/2007 1335
Date Received: 11/15/2007 1634

8082 Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Method: 8082
Preparation: 3550B
Dilution: 1.0
Date Analyzed: 11/30/2007 0145
Date Prepared: 11/27/2007 1227

Analysis Batch: 220-11497
Prep Batch: 220-11392

Instrument ID: HP 5890 with dual ECD
Lab File ID: D4663131.d
Initial Weight/Volume: 30.08 g
Final Weight/Volume: 10.0 mL
Injection Volume: 1 uL
Column ID: PRIMARY

Analyte	DryWt Corrected: Y Result (ug/Kg)	Qualifier	MDL	RL
PCB-1016	19	U J ✓	3.1	19
PCB-1221	36	U	1.7	36
PCB-1232	19	U	2.0	19
PCB-1242	19	U	3.3	19
PCB-1248	19	U	2.9	19
PCB-1254	19	U	1.3	19
PCB-1260	19	U J ✓	4.3	19

Surrogate	%Rec	Acceptance Limits
Tetrachloro-m-xylene	50	24 - 154
DCB Decachlorobiphenyl	70	25 - 159

DB 1/18/08

12/31/07

TestAmerica Connecticut

Client Sample ID: EHS-SS-06

GC Semivolatiles

Lot-Sample #...:	A7K170204-013	Work Order #...:	KCH501AC	Matrix.....:	SO
Date Sampled...:	11/14/07 13:15	Date Received..:	11/17/07		
Prep Date.....:	11/26/07	Analysis Date..:	11/27/07		
Prep Batch #...:	7330014				
Dilution Factor:	1	Initial Wgt/Vol:	50.06 g	Final Wgt/Vol..:	100 mL
% Moisture.....:	8.4	Method.....:	SW846 8151A		

PARAMETER	RESULT	REPORTING LIMIT	UNITS	MDL
2,4-D	ND	87	ug/kg	39
2,4,5-TP	ND	22	ug/kg	2.4
2,4,5-T	ND	22	ug/kg	3.5

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
2,4-Dichlorophenylacetic acid	59	(19 - 122)

NOTE(S):

Results and reporting limits have been adjusted for dry weight.

DB 1/18/08

EHM 1/10/08

TestAmerica Connecticut

Client Sample ID: EHS-SS-06

General Chemistry

Lot-Sample #...: A7K170204-013 Work Order #...: KCH50 Matrix.....: SO
Date Sampled...: 11/14/07 13:15 Date Received..: 11/17/07
% Moisture.....: 8.4

PARAMETER	RESULT	RL	UNITS	METHOD	PREPARATION-ANALYSIS DATE	PREP BATCH #
Acid-soluble sulfide	ND	32.8	mg/kg	SW846 9030B/9034	11/20/07	7324747
		Dilution Factor: 1		MDL.....: 6.1		
Percent Solids	91.6	10.0	%	MCAWW 160.3 MOD	11/26-11/27/07	7330572
		Dilution Factor: 1		MDL.....: 10.0		

NOTE(S):

RL Reporting Limit

Results and reporting limits have been adjusted for dry weight.

Jam 1/21/08

General Chemistry

Client Sample ID: EHS-SS-01

Lab Sample ID: 220-3395-7
Client Matrix: Solid

% Moisture: 19.4

Date Sampled: 11/14/2007 0835
Date Received: 11/15/2007 1634

Analyte	Result	Qual	Units	MDL	RL	Dil	Method
Sulfate-S	12.3U ~~6.3~~	~~J~~	mg/Kg	2.3	12.3	1.0	300.0

Anly Batch: 220-11366 Date Analyzed 11/22/2007 0642 DryWt Corrected: Y

Analyte	Result	Qual	Units	RL	RL	Dil	Method
Percent Moisture	19.4		%	0.100	0.100	1.0	PercentMoisture

Anly Batch: 220-11188 Date Analyzed 11/17/2007 1602

Analyte	Result	Qual	Units	RL	RL	Dil	Method
Percent Solids	80.6		%	0.100	0.100	1.0	PercentMoisture

Anly Batch: 220-11188 Date Analyzed 11/17/2007 1602

Client Sample ID: EHS-SS-XX Duplicate of EHS-SS-03

Lab Sample ID: 220-3395-8
Client Matrix: Solid

% Moisture: 31.7

Date Sampled: 11/14/2007 0000
Date Received: 11/15/2007 1634

Analyte	Result	Qual	Units	MDL	RL	Dil	Method
Sulfate-S	14.6U ~~11.1~~	~~J~~	mg/Kg	2.8	14.6	1.0	300.0

Anly Batch: 220-11366 Date Analyzed 11/22/2007 0655 DryWt Corrected: Y

Analyte	Result	Qual	Units	RL	RL	Dil	Method
Percent Moisture	31.7		%	0.100	0.100	1.0	PercentMoisture

Anly Batch: 220-11188 Date Analyzed 11/17/2007 1602

Analyte	Result	Qual	Units	RL	RL	Dil	Method
Percent Solids	68.3		%	0.100	0.100	1.0	PercentMoisture

Anly Batch: 220-11188 Date Analyzed 11/17/2007 1602

DG 1/18/08

JAm 1/2/08

General Chemistry

Client Sample ID: EHS-SS-02

Lab Sample ID: 220-3395-9
Client Matrix: Solid

% Moisture: 19.6

Date Sampled: 11/14/2007 1052
Date Received: 11/15/2007 1634

Analyte	Result	Qual	Units	MDL	RL	Dil	Method
Sulfate-S	39.8		mg/Kg	2.4	12.4	1.0	300.0
	Anly Batch: 220-11366	Date Analyzed	11/22/2007 0709			DryWt Corrected: Y	

Analyte	Result	Qual	Units	RL	RL	Dil	Method
Percent Moisture	19.6		%	0.100	0.100	1.0	PercentMoisture
	Anly Batch: 220-11188	Date Analyzed	11/17/2007 1602				
Percent Solids	80.4		%	0.100	0.100	1.0	PercentMoisture
	Anly Batch: 220-11188	Date Analyzed	11/17/2007 1602				

Client Sample ID: EHS-SS-03

Lab Sample ID: 220-3395-10
Client Matrix: Solid

% Moisture: 21.4

Date Sampled: 11/14/2007 1115
Date Received: 11/15/2007 1634

Analyte	Result	Qual	Units	MDL	RL	Dil	Method
Sulfate-S	14.7 U		mg/Kg	2.4	12.7	1.0	300.0
	Anly Batch: 220-11366	Date Analyzed	11/22/2007 0722			DryWt Corrected: Y	

Analyte	Result	Qual	Units	RL	RL	Dil	Method
Percent Moisture	21.4		%	0.100	0.100	1.0	PercentMoisture
	Anly Batch: 220-11188	Date Analyzed	11/17/2007 1602				
Percent Solids	78.6		%	0.100	0.100	1.0	PercentMoisture
	Anly Batch: 220-11188	Date Analyzed	11/17/2007 1602				

DP 11/18/08

1/2/08

General Chemistry

Client Sample ID: EHS-SS-04

Lab Sample ID: 220-3395-11
Client Matrix: Solid

% Moisture: 18.2

Date Sampled: 11/14/2007 1135
Date Received: 11/15/2007 1634

Analyte	Result	Qual	Units	MDL	RL	Dil	Method
Sulfate-S	~~4.7~~ 12.1 U	~~J~~	mg/Kg	2.3	12.1	1.0	300.0

Anly Batch: 220-11366 Date Analyzed 11/22/2007 0735 DryWt Corrected: Y

Analyte	Result	Qual	Units	RL	RL	Dil	Method
Percent Moisture	18.2		%	0.100	0.100	1.0	PercentMoisture

Anly Batch: 220-11188 Date Analyzed 11/17/2007 1602

Analyte	Result	Qual	Units	RL	RL	Dil	Method
Percent Solids	81.8		%	0.100	0.100	1.0	PercentMoisture

Anly Batch: 220-11188 Date Analyzed 11/17/2007 1602

Client Sample ID: EHS-SS-05

Lab Sample ID: 220-3395-12
Client Matrix: Solid

% Moisture: 18.6

Date Sampled: 11/14/2007 1315
Date Received: 11/15/2007 1634

Analyte	Result	Qual	Units	MDL	RL	Dil	Method
Sulfate-S	54.1		mg/Kg	2.3	12.3	1.0	300.0

Anly Batch: 220-11366 Date Analyzed 11/22/2007 0749 DryWt Corrected: Y

Analyte	Result	Qual	Units	RL	RL	Dil	Method
Percent Moisture	18.6		%	0.100	0.100	1.0	PercentMoisture

Anly Batch: 220-11188 Date Analyzed 11/17/2007 1602

Analyte	Result	Qual	Units	RL	RL	Dil	Method
Percent Solids	81.4		%	0.100	0.100	1.0	PercentMoisture

Anly Batch: 220-11188 Date Analyzed 11/17/2007 1602

Jam 1/2/08

Client: GEI Consultants, Inc.

Job Number: 220-3438-1
Sdg Number: 220-3438

Client Sample ID: EHS-FB-01

Lab Sample ID: 220-3438-1FB
Client Matrix: Water

Date Sampled: 11/19/2007 0945
Date Received: 11/20/2007 1910

8260B Volatile Organic Compounds by GC/MS

Method: 8260B
Preparation: 5030B
Dilution: 1.0
Date Analyzed: 11/23/2007 1456
Date Prepared: 11/23/2007 1456

Analysis Batch: 220-11353

Instrument ID: HP 6890/5973 GC/MS
Lab File ID: V1330.D
Initial Weight/Volume: 5 mL
Final Weight/Volume: 5 mL

Analyte	Result (ug/L)	Qualifier	MDL	RL
Acetone	2.3	J M J ✓	1.6	10
Benzene	5.0	U	0.23	5.0
Bromodichloromethane	5.0	U	0.24	5.0
Bromoform	5.0	U	1.2	5.0
Bromomethane	5.0	U	1.0	5.0
Methyl Ethyl Ketone	10	U	1.1	10
Carbon disulfide	5.0	U	0.14	5.0
Carbon tetrachloride	5.0	U	0.29	5.0
Chlorobenzene	5.0	U	0.15	5.0
Chloroethane	5.0	U	0.48	5.0
Chloroform	5.0	U	0.27	5.0
Chloromethane	5.0	U	0.24	5.0
Dibromochloromethane	5.0	U	0.21	5.0
1,1-Dichloroethane	5.0	U	0.23	5.0
1,2-Dichloroethane	5.0	U	0.25	5.0
1,1-Dichloroethene	5.0	U	0.25	5.0
1,2-Dichloropropane	5.0	U	0.32	5.0
cis-1,3-Dichloropropene	5.0	U	0.28	5.0
trans-1,3-Dichloropropene	5.0	U	0.28	5.0
Ethylbenzene	5.0	U	0.28	5.0
2-Hexanone	10	U	0.37	10
Methylene Chloride	1.3	J J ✓	0.26	5.0
methyl isobutyl ketone	10	U	0.38	10
Styrene	5.0	U	0.70	5.0
1,1,2,2-Tetrachloroethane	5.0	U	0.23	5.0
Tetrachloroethene	5.0	U M ✓	0.30	5.0
Toluene	5.0	U	0.090	5.0
1,1,1-Trichloroethane	5.0	U	0.38	5.0
1,1,2-Trichloroethane	5.0	U	0.33	5.0
Trichloroethene	5.0	U	0.26	5.0
Vinyl chloride	5.0	U	0.30	5.0
Xylenes, Total	5.0	U	0.46	5.0
cis-1,2-Dichloroethene	5.0	U	0.33	5.0
trans-1,2-Dichloroethene	5.0	U	0.22	5.0

Surrogate	%Rec	Acceptance Limits
1,2-Dichloroethane-d4 (Surr)	101	53 - 125
4-Bromofluorobenzene	91	73 - 127
Dibromofluoromethane	105	54 - 137
Toluene-d8 (Surr)	100	63 - 121

DB 11/6/08 EMM 11/7/08

Client: GEI Consultants, Inc.

Job Number: 220-3438-1
Sdg Number: 220-3438

Client Sample ID: EHS-FB-01

Lab Sample ID: 220-3438-1FB
Client Matrix: Water

Date Sampled: 11/19/2007 0945
Date Received: 11/20/2007 1910

8270C Semivolatile Compounds by Gas Chromatography/Mass Spectrometry (GC/MS)

Method: 8270C
Preparation: 3510C
Dilution: 1.0
Date Analyzed: 11/30/2007 1842
Date Prepared: 11/26/2007 2155

Analysis Batch: 220-11515
Prep Batch: 220-11372

Instrument ID: HP 6890/5973 GC/MS
Lab File ID: U2209.D
Initial Weight/Volume: 1000 mL
Final Weight/Volume: 1.0 mL
Injection Volume: 1 uL

Analyte	Result (ug/L)	Qualifier	MDL	RL
Acenaphthene	10	U	0.35	10
Acenaphthylene	10	U	0.35	10
Anthracene	10	U	0.32	10
Benzo[a]anthracene	10	U	0.44	10
Benzo[a]pyrene	10	U	0.32	10
Benzo[b]fluoranthene	10	U	0.45	10
Benzo[g,h,i]perylene	10	U	0.40	10
Benzo[k]fluoranthene	10	U	0.29	10
Bis(2-chloroethoxy)methane	10	U	0.51	10
Bis(2-chloroethyl)ether	10	U	2.0	10
Bis(2-ethylhexyl) phthalate	10	U	1.7	10
Butyl benzyl phthalate	10	U	0.43	10
Carbazole	10	U	0.61	10
Chrysene	10	U	0.40	10
Di-n-butyl phthalate	10	U	1.9	10
Di-n-octyl phthalate	10	U	0.35	10
4-Bromophenyl phenyl ether	10	U	0.26	10
4-Chloroaniline	10	U	0.31	10
2-Chloronaphthalene	10	U	0.46	10
4-Chlorophenyl phenyl ether	10	U	0.48	10
Dibenz(a,h)anthracene	10	U	0.39	10
Dibenzofuran	10	U	0.46	10
Diethyl phthalate	10	U	0.37	10
Dimethyl phthalate	10	U	0.29	10
1,2-Dichlorobenzene	10	U	0.43	10
1,3-Dichlorobenzene	10	U	0.49	10
1,4-Dichlorobenzene	10	U	0.38	10
3,3'-Dichlorobenzidine	10	U	0.60	10
2,4-Dinitrotoluene	10	U	0.48	10
2,6-Dinitrotoluene	10	U	0.49	10
Fluoranthene	10	U	0.51	10
Fluorene	10	U	0.35	10
Hexachlorobenzene	10	U	0.35	10
Hexachlorobutadiene	10	U	0.74	10
Hexachlorocyclopentadiene	10	U	1.3	10
Hexachloroethane	10	U	0.64	10
Indeno[1,2,3-cd]pyrene	10	U	0.51	10
Isophorone	10	U	0.54	10
2-Methylnaphthalene	10	U	0.49	10
Naphthalene	10	U	0.47	10
2-Nitroaniline	50	U	0.45	50
3-Nitroaniline	50	U	0.41	50
Nitrobenzene	10	U	0.50	10
N-Nitrosodi-n-propylamine	10	U	0.59	10

EMH 1/8/08

Client: GEI Consultants, Inc.

Job Number: 220-3438-1
Sdg Number: 220-3438

Client Sample ID: EHS-FB-01

Lab Sample ID: 220-3438-1FB
Client Matrix: Water

Date Sampled: 11/19/2007 0945
Date Received: 11/20/2007 1910

8270C Semivolatile Compounds by Gas Chromatography/Mass Spectrometry (GC/MS)

Method: 8270C
Preparation: 3510C
Dilution: 1.0
Date Analyzed: 11/30/2007 1842
Date Prepared: 11/26/2007 2155

Analysis Batch: 220-11515
Prep Batch: 220-11372

Instrument ID: HP 6890/5973 GC/MS
Lab File ID: U2209.D
Initial Weight/Volume: 1000 mL
Final Weight/Volume: 1.0 mL
Injection Volume: 1 uL

Analyte	Result (ug/L)	Qualifier	MDL	RL
N-Nitrosodiphenylamine	10	U	0.41	10
Phenanthrene	10	U	0.28	10
Pyrene	10	U	0.40	10
1,2,4-Trichlorobenzene	10	U	0.47	10
4-Chloro-3-methylphenol	10	U	0.43	10
2-Chlorophenol	10	U	0.46	10
2-Methylphenol	10	U	0.50	10
4-Methylphenol	10	U	0.39	10
2,4-Dichlorophenol	10	U	0.30	10
2,4-Dimethylphenol	10	U	0.63	10
2,4-Dinitrophenol	50	U	1.7	50
4,6-Dinitro-2-methylphenol	50	U	3.3	50
2-Nitrophenol	10	U	0.50	10
4-Nitrophenol	50	U	1.3	50
Pentachlorophenol	50	U	4.1	50
Phenol	10	U	0.85	10
2,4,5-Trichlorophenol	50	U	0.33	50
2,4,6-Trichlorophenol	10	U	0.42	10
Benzyl alcohol	10	U	0.84	10
4-Nitroaniline	20	U	0.50	20
2,2'-oxybis[1-chloropropane]	10	U	0.54	10

Surrogate	%Rec	Acceptance Limits
2-Fluorobiphenyl	81	43 - 116
2-Fluorophenol	46	21 - 97
2,4,6-Tribromophenol	93	29 - 126
Nitrobenzene-d5	82	38 - 113
Phenol-d5	33	18 - 97
Terphenyl-d14	98	10 - 119

EMM 1/8/08

DB 1/8/08

Client: GEI Consultants, Inc.

Job Number: 220-3438-1
Sdg Number: 220-3438

Client Sample ID: EHS-FB-01

Lab Sample ID: 220-3438-1FB
Client Matrix: Water

Date Sampled: 11/19/2007 0945
Date Received: 11/20/2007 1910

6010B Inductively Coupled Plasma - Atomic Emission Spectrometry

Method: 6010B
Preparation: 3010A
Dilution: 1.0
Date Analyzed: 11/27/2007 1631
Date Prepared: 11/21/2007 1444

Analysis Batch: 220-11410
Prep Batch: 220-11295

Instrument ID: TJA Trace ICAP
Lab File ID: W112707
Initial Weight/Volume: 50 mL
Final Weight/Volume: 50 mL

Analyte	Result (ug/L)	Qualifier	MDL	RL
Silver	5.0	U	1.3	5.0
Aluminum	500	U	84	500
Arsenic	25	U	5.4	25
Barium	5.0	U	2.3	5.0
Beryllium	5.0	U	0.60	5.0
Calcium	300	U	130	300
Cadmium	10	U	1.1	10
Cobalt	10	U	2.1	10
Chromium	10	U	1.9	10
Copper	10	U	3.9	10
Iron	200	U	51	200
Potassium	130	J ✓	130	400
Magnesium	100	U	55	100
Manganese	15	U	5.2	15
Sodium	400	U	350	400
Nickel	10	U	1.9	10
Lead	10	U	4.9	10
Antimony	50	U	6.0	50
Selenium	30	U	9.8	30
Thallium	40	U	8.1	40
Vanadium	5.0	U	1.0	5.0
Zinc	50	U	12	50

7470A Mercury in Liquid Waste (Manual Cold Vapor Technique)

Method: 7470A
Preparation: 7470A
Dilution: 1.0
Date Analyzed: 11/30/2007 1018
Date Prepared: 11/29/2007 1800

Analysis Batch: 220-11490
Prep Batch: 220-11476

Instrument ID: Perkin Elmer FIMS
Lab File ID: N/A
Initial Weight/Volume: 25 mL
Final Weight/Volume: 50 mL

Analyte	Result (ug/L)	Qualifier	MDL	RL
Mercury	~~0.20~~ 0.40 ✓	U	~~0.10~~ 0.20 ✓	~~0.20~~ 0.40 ✓

Am 1/3/08

Client: GEI Consultants, Inc.

Job Number: 220-3438-1
Sdg Number: 220-3438

Client Sample ID: EHS-FB-01

Lab Sample ID: 220-3438-1FB
Client Matrix: Water

Date Sampled: 11/19/2007 0945
Date Received: 11/20/2007 1910

8081A Organochlorine Pesticides by Gas Chromatography

Method: 8081A
Preparation: 3510C
Dilution: 1.0
Date Analyzed: 11/29/2007 2054
Date Prepared: 11/26/2007 2225

Analysis Batch: 220-11459
Prep Batch: 220-11374

Instrument ID: HP 5890 with dual ECD
Lab File ID: D7505076.D
Initial Weight/Volume: 1000 mL
Final Weight/Volume: 10 mL
Injection Volume: 1 uL
Column ID: PRIMARY

Analyte	Result (ug/L)	Qualifier	MDL	RL
4,4'-DDD	0.15	U	0.014	0.15
4,4'-DDE	0.10	U	0.0088	0.10
4,4'-DDT	0.10	U	0.010	0.10
Aldrin	0.050	U	0.0058	0.050
alpha-BHC	0.050	U	0.011	0.050
beta-BHC	0.050	U	0.013	0.050
delta-BHC	0.050	U	0.0022	0.050
Dieldrin	0.10	U	0.0057	0.10
Endosulfan I	0.050	U	0.0035	0.050
Endosulfan II	0.10	U	0.0035	0.10
Endosulfan sulfate	0.10	U	0.014	0.10
Endrin	0.10	U	0.025	0.10
Endrin aldehyde	0.10	UJ	0.028	0.10
Endrin ketone	0.10	UJ	0.016	0.10
gamma-BHC (Lindane)	0.050	U	0.0052	0.050
Heptachlor	0.050	U	0.0078	0.050
Heptachlor epoxide	0.050	U	0.0057	0.050
Methoxychlor	0.50	UJ	0.041	0.50
Toxaphene	2.5	U	0.21	2.5
alpha-Chlordane	0.050	U	0.0055	0.050
gamma-Chlordane	0.018	JN	0.0061	0.050

Surrogate	%Rec	Acceptance Limits
DCB Decachlorobiphenyl	37	29 - 156
Tetrachloro-m-xylene	115	53 - 144

Method: 8081A
Preparation: 3510C
Dilution: 1.0
Date Analyzed: 11/29/2007 2054
Date Prepared: 11/26/2007 2225

Analysis Batch: 220-11459
Prep Batch: 220-11374

Instrument ID: HP 5890 with dual ECD
Lab File ID: C7505076.D
Initial Weight/Volume: 1000 mL
Final Weight/Volume: 10 mL
Injection Volume: 1 uL
Column ID: SECONDARY

Surrogate	%Rec	Acceptance Limits
DCB Decachlorobiphenyl	36	29 - 156
Tetrachloro-m-xylene	117	53 - 144

DB 1/18/08

JAM 12/30/07

Analytical Data

Client: GEI Consultants, Inc.

Job Number: 220-3438-1
Sdg Number: 220-3438

Client Sample ID: **EHS-FB-01**

Lab Sample ID: 220-3438-1FB
Client Matrix: Water

Date Sampled: 11/19/2007 0945
Date Received: 11/20/2007 1910

8082 Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Method: 8082
Preparation: 3510C
Dilution: 1.0
Date Analyzed: 11/28/2007 0434
Date Prepared: 11/26/2007 2225

Analysis Batch: 220-11444
Prep Batch: 220-11374

Instrument ID: HP 5890 with dual ECD
Lab File ID: D4663063.d
Initial Weight/Volume: 1000 mL
Final Weight/Volume: 10 mL
Injection Volume: 1 uL
Column ID: PRIMARY

Analyte	Result (ug/L)	Qualifier	MDL	RL
PCB-1016	0.50	U	0.072	0.50
PCB-1221	1.0	U	0.23	1.0
PCB-1232	0.50	U	0.11	0.50
PCB-1242	0.50	U	0.11	0.50
PCB-1248	0.50	U	0.15	0.50
PCB-1254	0.50	U	0.037	0.50
PCB-1260	0.50	U	0.064	0.50

Surrogate	%Rec	Acceptance Limits
Tetrachloro-m-xylene	91	53 - 144
DCB Decachlorobiphenyl	36	29 - 156

DB 1/18/08

jam 12/10/07

TestAmerica Connecticut

Client Sample ID: EHS-FB-01

GC Semivolatiles

Lot-Sample #...: A7K240131-001	Work Order #...: KCT0K1AA	Matrix.....: WG	
Date Sampled...: 11/19/07 09:45	Date Received..: 11/24/07		
Prep Date.....: 11/26/07	Analysis Date..: 11/27/07		
Prep Batch #...: 7330017			
Dilution Factor: 1	Initial Wgt/Vol: 500 mL	Final Wgt/Vol..: 100 mL	
	Method.....: SW846 8151A		

PARAMETER	RESULT	REPORTING LIMIT	UNITS	MDL
2,4,5-T	ND	1.0	ug/L	0.17
2,4-D	ND	4.0	ug/L	1.5
2,4,5-TP	ND	1.0	ug/L	0.16

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
2,4-Dichlorophenylacetic acid	87	(32 - 112)

EMM 1/8/08

DF 1/18/08

Client: GEI Consultants, Inc.

Job Number: 220-3438-1
Sdg Number: 220-3438

Client Sample ID: **EHS-FB-02**

Lab Sample ID: 220-3438-2FB
Client Matrix: Water

Date Sampled: 11/19/2007 1045
Date Received: 11/20/2007 1910

8081A Organochlorine Pesticides by Gas Chromatography

Method: 8081A
Preparation: 3510C
Dilution: 1.0
Date Analyzed: 11/29/2007 2115
Date Prepared: 11/26/2007 2225

Analysis Batch: 220-11459
Prep Batch: 220-11374

Instrument ID: HP 5890 with dual ECD
Lab File ID: D7505077.D
Initial Weight/Volume: 1000 mL
Final Weight/Volume: 10 mL
Injection Volume: 1 uL
Column ID: PRIMARY

Analyte	Result (ug/L)	Qualifier	MDL	RL
4,4'-DDD	0.15	U	0.014	0.15
4,4'-DDE	0.10	U	0.0088	0.10
4,4'-DDT	0.10	U	0.010	0.10
Aldrin	0.050	U	0.0058	0.050
alpha-BHC	0.050	U	0.011	0.050
beta-BHC	0.050	U	0.013	0.050
delta-BHC	0.050	U	0.0022	0.050
Dieldrin	0.10	U	0.0057	0.10
Endosulfan I	0.050	U	0.0035	0.050
Endosulfan II	0.10	U	0.0035	0.10
Endosulfan sulfate	0.10	U	0.014	0.10
Endrin	0.10	U	0.025	0.10
Endrin aldehyde	0.10	UJ	0.028	0.10
Endrin ketone	0.10	UJ	0.016	0.10
gamma-BHC (Lindane)	0.050	U	0.0052	0.050
Heptachlor	0.050	U	0.0078	0.050
Heptachlor epoxide	0.050	U	0.0057	0.050
Methoxychlor	0.50	UJ	0.041	0.50
Toxaphene	2.5	U	0.21	2.5
alpha-Chlordane	0.050	U	0.0055	0.050
gamma-Chlordane	0.050	U	0.0061	0.050

Surrogate	%Rec	Acceptance Limits
DCB Decachlorobiphenyl	39	29 - 156
Tetrachloro-m-xylene	110	53 - 144

Method: 8081A
Preparation: 3510C
Dilution: 1.0
Date Analyzed: 11/29/2007 2115
Date Prepared: 11/26/2007 2225

Analysis Batch: 220-11459
Prep Batch: 220-11374

Instrument ID: HP 5890 with dual ECD
Lab File ID: C7505077.D
Initial Weight/Volume: 1000 mL
Final Weight/Volume: 10 mL
Injection Volume: 1 uL
Column ID: SECONDARY

Surrogate	%Rec	Acceptance Limits
DCB Decachlorobiphenyl	38	29 - 156
Tetrachloro-m-xylene	107	53 - 144

PB 1/18/08

Jan 12/30/07

Client: GEI Consultants, Inc.

Job Number: 220-3438-1
Sdg Number: 220-3438

Client Sample ID: EHS-FB-02

Lab Sample ID: 220-3438-2FB
Client Matrix: Water

Date Sampled: 11/19/2007 1045
Date Received: 11/20/2007 1910

8260B Volatile Organic Compounds by GC/MS

Method: 8260B
Preparation: 5030B
Dilution: 1.0
Date Analyzed: 11/23/2007 1523
Date Prepared: 11/23/2007 1523

Analysis Batch: 220-11353

Instrument ID: HP 6890/5973 GC/MS
Lab File ID: V1331.D
Initial Weight/Volume: 5 mL
Final Weight/Volume: 5 mL

Analyte	Result (ug/L)	Qualifier	MDL	RL
Acetone	2.0	J M J ✓	1.6	10
Benzene	5.0	U	0.23	5.0
Bromodichloromethane	5.0	U	0.24	5.0
Bromoform	5.0	U	1.2	5.0
Bromomethane	5.0	U	1.0	5.0
Methyl Ethyl Ketone	10	U	1.1	10
Carbon disulfide	5.0	U	0.14	5.0
Carbon tetrachloride	5.0	U	0.29	5.0
Chlorobenzene	5.0	U	0.15	5.0
Chloroethane	5.0	U	0.48	5.0
Chloroform	5.0	U	0.27	5.0
Chloromethane	5.0	U	0.24	5.0
Dibromochloromethane	5.0	U	0.21	5.0
1,1-Dichloroethane	5.0	U	0.23	5.0
1,2-Dichloroethane	5.0	U	0.25	5.0
1,1-Dichloroethene	5.0	U	0.25	5.0
1,2-Dichloropropane	5.0	U	0.32	5.0
cis-1,3-Dichloropropene	5.0	U	0.28	5.0
trans-1,3-Dichloropropene	5.0	U	0.28	5.0
Ethylbenzene	5.0	U	0.28	5.0
2-Hexanone	10	U	0.37	10
Methylene Chloride	1.3	J B ✓	0.26	5.0
methyl isobutyl ketone	10	U	0.38	10
Styrene	5.0	U	0.70	5.0
1,1,2,2-Tetrachloroethane	5.0	U	0.23	5.0
Tetrachloroethene	5.0	U	0.30	5.0
Toluene	5.0	U	0.090	5.0
1,1,1-Trichloroethane	5.0	U	0.38	5.0
1,1,2-Trichloroethane	5.0	U	0.33	5.0
Trichloroethene	5.0	U	0.26	5.0
Vinyl chloride	5.0	U	0.30	5.0
Xylenes, Total	5.0	U	0.46	5.0
cis-1,2-Dichloroethene	5.0	U	0.33	5.0
trans-1,2-Dichloroethene	5.0	U	0.22	5.0

Surrogate	%Rec	Acceptance Limits
1,2-Dichloroethane-d4 (Surr)	98	53 - 125
4-Bromofluorobenzene	86	73 - 127
Dibromofluoromethane	98	54 - 137
Toluene-d8 (Surr)	91	63 - 121

DB 1/18/08 EMM 1/7/08

Client: GEI Consultants, Inc.

Job Number: 220-3438-1
Sdg Number: 220-3438

Client Sample ID: EHS-FB-02

Lab Sample ID: 220-3438-2FB
Client Matrix: Water

Date Sampled: 11/19/2007 1045
Date Received: 11/20/2007 1910

8270C Semivolatile Compounds by Gas Chromatography/Mass Spectrometry (GC/MS)

Method: 8270C
Preparation: 3510C
Dilution: 1.0
Date Analyzed: 11/30/2007 1906
Date Prepared: 11/26/2007 2155

Analysis Batch: 220-11515
Prep Batch: 220-11372

Instrument ID: HP 6890/5973 GC/MS
Lab File ID: U2210.D
Initial Weight/Volume: 1000 mL
Final Weight/Volume: 1.0 mL
Injection Volume: 1 uL

Analyte	Result (ug/L)	Qualifier	MDL	RL
Acenaphthene	10	U	0.35	10
Acenaphthylene	10	U	0.35	10
Anthracene	10	U	0.32	10
Benzo[a]anthracene	10	U	0.44	10
Benzo[a]pyrene	10	U	0.32	10
Benzo[b]fluoranthene	10	U	0.45	10
Benzo[g,h,i]perylene	10	U	0.40	10
Benzo[k]fluoranthene	10	U	0.29	10
Bis(2-chloroethoxy)methane	10	U	0.51	10
Bis(2-chloroethyl)ether	10	U	2.0	10
Bis(2-ethylhexyl) phthalate	10	U	1.7	10
Butyl benzyl phthalate	10	U	0.43	10
Carbazole	10	U	0.61	10
Chrysene	10	U	0.40	10
Di-n-butyl phthalate	10	U	1.9	10
Di-n-octyl phthalate	10	U	0.35	10
4-Bromophenyl phenyl ether	10	U	0.26	10
4-Chloroaniline	10	U	0.31	10
2-Chloronaphthalene	10	U	0.46	10
4-Chlorophenyl phenyl ether	10	U	0.48	10
Dibenz(a,h)anthracene	10	U	0.39	10
Dibenzofuran	10	U	0.46	10
Diethyl phthalate	10	U	0.37	10
Dimethyl phthalate	10	U	0.29	10
1,2-Dichlorobenzene	10	U	0.43	10
1,3-Dichlorobenzene	10	U	0.49	10
1,4-Dichlorobenzene	10	U	0.38	10
3,3'-Dichlorobenzidine	10	U	0.60	10
2,4-Dinitrotoluene	10	U	0.48	10
2,6-Dinitrotoluene	10	U	0.49	10
Fluoranthene	10	U	0.51	10
Fluorene	10	U	0.35	10
Hexachlorobenzene	10	U	0.35	10
Hexachlorobutadiene	10	U	0.74	10
Hexachlorocyclopentadiene	10	U	1.3	10
Hexachloroethane	10	U	0.64	10
Indeno[1,2,3-cd]pyrene	10	U	0.51	10
Isophorone	10	U	0.54	10
2-Methylnaphthalene	10	U	0.49	10
Naphthalene	10	U	0.47	10
2-Nitroaniline	50	U	0.45	50
3-Nitroaniline	50	U	0.41	50
Nitrobenzene	10	U	0.50	10
N-Nitrosodi-n-propylamine	10	U	0.59	10

EMM 1/8/08 DB 1/8/08

Client: GEI Consultants, Inc.

Job Number: 220-3438-1
Sdg Number: 220-3438

Client Sample ID: EHS-FB-02

Lab Sample ID: 220-3438-2FB
Client Matrix: Water

Date Sampled: 11/19/2007 1045
Date Received: 11/20/2007 1910

8270C Semivolatile Compounds by Gas Chromatography/Mass Spectrometry (GC/MS)

Method: 8270C
Preparation: 3510C
Dilution: 1.0
Date Analyzed: 11/30/2007 1906
Date Prepared: 11/26/2007 2155

Analysis Batch: 220-11515
Prep Batch: 220-11372

Instrument ID: HP 6890/5973 GC/MS
Lab File ID: U2210.D
Initial Weight/Volume: 1000 mL
Final Weight/Volume: 1.0 mL
Injection Volume: 1 uL

Analyte	Result (ug/L)	Qualifier	MDL	RL
N-Nitrosodiphenylamine	10	U	0.41	10
Phenanthrene	10	U	0.28	10
Pyrene	10	U	0.40	10
1,2,4-Trichlorobenzene	10	U	0.47	10
4-Chloro-3-methylphenol	10	U	0.43	10
2-Chlorophenol	10	U	0.46	10
2-Methylphenol	10	U	0.50	10
4-Methylphenol	10	U	0.39	10
2,4-Dichlorophenol	10	U	0.30	10
2,4-Dimethylphenol	10	U	0.63	10
2,4-Dinitrophenol	50	U	1.7	50
4,6-Dinitro-2-methylphenol	50	U	3.3	50
2-Nitrophenol	10	U	0.50	10
4-Nitrophenol	50	U	1.3	50
Pentachlorophenol	50	U	4.1	50
Phenol	10	U	0.85	10
2,4,5-Trichlorophenol	50	U	0.33	50
2,4,6-Trichlorophenol	10	U	0.42	10
Benzyl alcohol	10	U	0.84	10
4-Nitroaniline	20	U	0.50	20
2,2'-oxybis[1-chloropropane]	10	U	0.54	10

Surrogate	%Rec	Acceptance Limits
2-Fluorobiphenyl	77	43 - 116
2-Fluorophenol	45	21 - 97
2,4,6-Tribromophenol	91	29 - 126
Nitrobenzene-d5	76	38 - 113
Phenol-d5	33	18 - 97
Terphenyl-d14	99	10 - 119

EHM 1/8/08

DB 1/18/08

Client: GEI Consultants, Inc.

Job Number: 220-3438-1
Sdg Number: 220-3438

Client Sample ID: EHS-FB-02

Lab Sample ID: 220-3438-2FB
Client Matrix: Water

Date Sampled: 11/19/2007 1045
Date Received: 11/20/2007 1910

6010B Inductively Coupled Plasma - Atomic Emission Spectrometry

Method: 6010B
Preparation: 3010A
Dilution: 1.0
Date Analyzed: 11/27/2007 1636
Date Prepared: 11/21/2007 1444

Analysis Batch: 220-11410
Prep Batch: 220-11295

Instrument ID: TJA Trace ICAP
Lab File ID: W112707
Initial Weight/Volume: 50 mL
Final Weight/Volume: 50 mL

Analyte	Result (ug/L)	Qualifier	MDL	RL
Silver	5.0	U	1.3	5.0
Aluminum	500	U	84	500
Arsenic	25	U	5.4	25
Barium	5.0	U	2.3	5.0
Beryllium	5.0	U	0.60	5.0
Calcium	300	U	130	300
Cadmium	10	U	1.1	10
Cobalt	10	U	2.1	10
Chromium	10	U	1.9	10
Copper	10	U	3.9	10
Iron	200	U	51	200
Potassium	400	U	130	400
Magnesium	100	U	55	100
Manganese	15	U	5.2	15
Sodium	400	U	350	400
Nickel	10	U	1.9	10
Lead	10	U	4.9	10
Antimony	50	U	6.0	50
Selenium	30	U	9.8	30
Thallium	40	U	8.1	40
Vanadium	5.0	U	1.0	5.0
Zinc	50	U	12	50

7470A Mercury in Liquid Waste (Manual Cold Vapor Technique)

Method: 7470A
Preparation: 7470A
Dilution: 1.0
Date Analyzed: 11/30/2007 1019
Date Prepared: 11/29/2007 1800

Analysis Batch: 220-11490
Prep Batch: 220-11476

Instrument ID: Perkin Elmer FIMS
Lab File ID: N/A
Initial Weight/Volume: 25 mL
Final Weight/Volume: 50 mL

Analyte	Result (ug/L)	Qualifier	MDL	RL
Mercury	~~0.20~~ 0.40 ✓	U	~~0.10~~ 0.20 ✓	~~0.20~~ 0.40 ✓

DG 1/18/08

Jam 1/31/08

Client: GEI Consultants, Inc.

Job Number: 220-3438-1
Sdg Number: 220-3438

Client Sample ID: EHS-FB-02

Lab Sample ID: 220-3438-2FB
Client Matrix: Water

Date Sampled: 11/19/2007 1045
Date Received: 11/20/2007 1910

8082 Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Method: 8082
Preparation: 3510C
Dilution: 1.0
Date Analyzed: 11/28/2007 0541
Date Prepared: 11/26/2007 2225

Analysis Batch: 220-11444
Prep Batch: 220-11374

Instrument ID: HP 5890 with dual ECD
Lab File ID: D4663067.d
Initial Weight/Volume: 1000 mL
Final Weight/Volume: 10 mL
Injection Volume: 1 uL
Column ID: PRIMARY

Analyte	Result (ug/L)	Qualifier	MDL	RL
PCB-1016	0.50	U	0.072	0.50
PCB-1221	1.0	U	0.23	1.0
PCB-1232	0.50	U	0.11	0.50
PCB-1242	0.50	U	0.11	0.50
PCB-1248	0.50	U	0.15	0.50
PCB-1254	0.50	U	0.037	0.50
PCB-1260	0.50	U	0.064	0.50

Surrogate	%Rec	Acceptance Limits
Tetrachloro-m-xylene	88	53 - 144
DCB Decachlorobiphenyl	39	29 - 156

DB 1/18/08

Jam 12/20/07

TestAmerica Connecticut

Client Sample ID: EHS-FB-02

GC Semivolatiles

Lot-Sample #...: A7K240131-002	Work Order #...: KCT0N1AA	Matrix.....: WG	
Date Sampled...: 11/19/07 10:45	Date Received..: 11/24/07		
Prep Date.....: 11/26/07	Analysis Date..: 11/28/07		
Prep Batch #...: 7330017			
Dilution Factor: 1	Initial Wgt/Vol: 500 mL	Final Wgt/Vol..: 100 mL	
	Method.....: SW846 8151A		

PARAMETER	RESULT	REPORTING LIMIT	UNITS	MDL
2,4,5-T	ND	1.0	ug/L	0.17
2,4-D	ND	4.0	ug/L	1.5
2,4,5-TP	ND	1.0	ug/L	0.16

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
2,4-Dichlorophenylacetic acid	82	(32 - 112)

EMM 1/8/08

DB 1/8/08

Client: GEI Consultants, Inc.

Job Number: 220-3395-1
Sdg Number: 220-3395

Client Sample ID: **TRIP BLANK**

Lab Sample ID: 220-3395-16TB
Client Matrix: Water

Date Sampled: 11/14/2007 0000
Date Received: 11/15/2007 1634

8260B Volatile Organic Compounds by GC/MS

Method: 8260B
Preparation: 5030B
Dilution: 1.0
Date Analyzed: 11/19/2007 1716
Date Prepared: 11/19/2007 1716

Analysis Batch: 220-11235

Instrument ID: HP 5890/5971 GC/MS
Lab File ID: L2382.D
Initial Weight/Volume: 5 mL
Final Weight/Volume: 5 mL

Analyte	Result (ug/L)	Qualifier	MDL	RL
Acetone	10	U	1.6	10
Benzene	5.0	U	0.23	5.0
Bromodichloromethane	5.0	U	0.24	5.0
Bromoform	5.0	U	1.2	5.0
Bromomethane	5.0	U	1.0	5.0
Methyl Ethyl Ketone	10	U	1.1	10
Carbon disulfide	5.0	U	0.14	5.0
Carbon tetrachloride	5.0	U	0.29	5.0
Chlorobenzene	5.0	U	0.15	5.0
Chloroethane	5.0	U	0.48	5.0
Chloroform	5.0	U	0.27	5.0
Chloromethane	5.0	U	0.24	5.0
Dibromochloromethane	5.0	U	0.21	5.0
1,1-Dichloroethane	5.0	U	0.23	5.0
1,2-Dichloroethane	5.0	U	0.25	5.0
1,1-Dichloroethene	5.0	U	0.25	5.0
1,2-Dichloropropane	5.0	U	0.32	5.0
cis-1,3-Dichloropropene	5.0	U	0.28	5.0
trans-1,3-Dichloropropene	5.0	U	0.28	5.0
Ethylbenzene	5.0	U	0.28	5.0
2-Hexanone	10	U	0.37	10
Methylene Chloride	2.5	J J✓	0.26	5.0
methyl isobutyl ketone	10	U	0.38	10
Styrene	5.0	U	0.70	5.0
1,1,2,2-Tetrachloroethane	5.0	U	0.23	5.0
Tetrachloroethene	5.0	U	0.30	5.0
Toluene	5.0	U	0.090	5.0
1,1,1-Trichloroethane	5.0	U	0.38	5.0
1,1,2-Trichloroethane	5.0	U✓ ✓	0.33	5.0
Trichloroethene	5.0	U	0.26	5.0
Vinyl chloride	5.0	U	0.30	5.0
Xylenes, Total	5.0	U	0.46	5.0
cis-1,2-Dichloroethene	5.0	U	0.33	5.0
trans-1,2-Dichloroethene	5.0	U	0.22	5.0

Surrogate	%Rec	Acceptance Limits
1,2-Dichloroethane-d4 (Surr)	106	53 - 125
4-Bromofluorobenzene	105	73 - 127
Dibromofluoromethane	110	54 - 137
Toluene-d8 (Surr)	90	63 - 121

DS 1/18/08 EMA 1/9/08

Client: GEI Consultants, Inc.

Job Number: 220-3438-1
Sdg Number: 220-3438

Client Sample ID: **TRIP BLANK**

Lab Sample ID: 220-3438-3TB
Client Matrix: Water

Date Sampled: 11/19/2007 0000
Date Received: 11/20/2007 1910

8260B Volatile Organic Compounds by GC/MS

Method: 8260B
Preparation: 5030B
Dilution: 1.0
Date Analyzed: 11/23/2007 1549
Date Prepared: 11/23/2007 1549

Analysis Batch: 220-11353

Instrument ID: HP 6890/5973 GC/MS
Lab File ID: V1332.D
Initial Weight/Volume: 5 mL
Final Weight/Volume: 5 mL

Analyte	Result (ug/L)	Qualifier	MDL	RL
Acetone	10	U	1.6	10
Benzene	5.0	U	0.23	5.0
Bromodichloromethane	5.0	U	0.24	5.0
Bromoform	5.0	U	1.2	5.0
Bromomethane	5.0	U	1.0	5.0
Methyl Ethyl Ketone	10	U	1.1	10
Carbon disulfide	5.0	U	0.14	5.0
Carbon tetrachloride	5.0	U	0.29	5.0
Chlorobenzene	5.0	U	0.15	5.0
Chloroethane	5.0	U	0.48	5.0
Chloroform	5.0	U	0.27	5.0
Chloromethane	5.0	U	0.24	5.0
Dibromochloromethane	5.0	U	0.21	5.0
1,1-Dichloroethane	5.0	U	0.23	5.0
1,2-Dichloroethane	5.0	U	0.25	5.0
1,1-Dichloroethene	5.0	U	0.25	5.0
1,2-Dichloropropane	5.0	U	0.32	5.0
cis-1,3-Dichloropropene	5.0	U	0.28	5.0
trans-1,3-Dichloropropene	5.0	U	0.28	5.0
Ethylbenzene	5.0	U	0.28	5.0
2-Hexanone	10	U	0.37	10
Methylene Chloride	3.7	J ✓	0.26	5.0
methyl isobutyl ketone	10	U	0.38	10
Styrene	5.0	U	0.70	5.0
1,1,2,2-Tetrachloroethane	5.0	U	0.23	5.0
Tetrachloroethene	5.0	U	0.30	5.0
Toluene	5.0	U	0.090	5.0
1,1,1-Trichloroethane	5.0	U	0.38	5.0
1,1,2-Trichloroethane	5.0	U	0.33	5.0
Trichloroethene	5.0	U	0.26	5.0
Vinyl chloride	5.0	U	0.30	5.0
Xylenes, Total	5.0	U	0.46	5.0
cis-1,2-Dichloroethene	5.0	U	0.33	5.0
trans-1,2-Dichloroethene	5.0	U	0.22	5.0

Surrogate	%Rec	Acceptance Limits
1,2-Dichloroethane-d4 (Surr)	95	53 - 125
4-Bromofluorobenzene	85	73 - 127
Dibromofluoromethane	101	54 - 137
Toluene-d8 (Surr)	96	63 - 121

EHM 1/7/08 DB 1/08/08

Client: GEI Consultants, Inc.

Job Number: 220-3406-1
Sdg Number: 220-3406

Client Sample ID: **EHS-TB-111607**

Lab Sample ID: 220-3406-2TB
Client Matrix: Water

Date Sampled: 11/16/2007 0000
Date Received: 11/16/2007 2100

8260B Volatile Organic Compounds by GC/MS

Method: 8260B
Preparation: 5030B
Dilution: 1.0
Date Analyzed: 11/19/2007 1602
Date Prepared: 11/19/2007 1602

Analysis Batch: 220-11235

Instrument ID: HP 5890/5971 GC/MS
Lab File ID: L2379.D
Initial Weight/Volume: 5 mL
Final Weight/Volume: 5 mL

Analyte	Result (ug/L)	Qualifier	MDL	RL
Acetone	10	U	1.6	10
Benzene	5.0	U	0.23	5.0
Bromodichloromethane	5.0	U	0.24	5.0
Bromoform	5.0	U	1.2	5.0
Bromomethane	5.0	U	1.0	5.0
Methyl Ethyl Ketone	10	U	1.1	10
Carbon disulfide	5.0	U	0.14	5.0
Carbon tetrachloride	5.0	U	0.29	5.0
Chlorobenzene	5.0	U	0.15	5.0
Chloroethane	5.0	U	0.48	5.0
Chloroform	5.0	U	0.27	5.0
Chloromethane	5.0	U	0.24	5.0
Dibromochloromethane	5.0	U	0.21	5.0
1,1-Dichloroethane	5.0	U	0.23	5.0
1,2-Dichloroethane	5.0	U	0.25	5.0
1,1-Dichloroethene	5.0	U	0.25	5.0
1,2-Dichloropropane	5.0	U	0.32	5.0
cis-1,3-Dichloropropene	5.0	U	0.28	5.0
trans-1,3-Dichloropropene	5.0	U	0.28	5.0
Ethylbenzene	5.0	U	0.28	5.0
2-Hexanone	10	U	0.37	10
Methylene Chloride	3.3	J J ✓	0.26	5.0
methyl isobutyl ketone	10	U	0.38	10
Styrene	5.0	U	0.70	5.0
1,1,2,2-Tetrachloroethane	5.0	U	0.23	5.0
Tetrachloroethene	5.0	U	0.30	5.0
Toluene	5.0	U	0.090	5.0
1,1,1-Trichloroethane	5.0	U ✓ ✓	0.38	5.0
1,1,2-Trichloroethane	5.0	U ✓	0.33	5.0
Trichloroethene	5.0	U	0.26	5.0
Vinyl chloride	5.0	U	0.30	5.0
Xylenes, Total	5.0	U	0.46	5.0
cis-1,2-Dichloroethene	5.0	U	0.33	5.0
trans-1,2-Dichloroethene	5.0	U	0.22	5.0

Surrogate	%Rec	Acceptance Limits
1,2-Dichloroethane-d4 (Surr)	112	53 - 125
4-Bromofluorobenzene	108	73 - 127
Dibromofluoromethane	113	54 - 137
Toluene-d8 (Surr)	92	63 - 121

EHM 1/7/08 DB 1/18/08

Client: GEI Consultants, Inc.

Job Number: 220-3404-1
Sdg Number: 220-3404

Client Sample ID: EHS-TB-111607

Lab Sample ID: 220-3404-4
Client Matrix: Water

Date Sampled: 11/16/2007 0000
Date Received: 11/16/2007 2100

8260B Volatile Organic Compounds by GC/MS

Method: 8260B
Preparation: 5030B
Dilution: 1.0
Date Analyzed: 11/19/2007 1651
Date Prepared: 11/19/2007 1651

Analysis Batch: 220-11235

Instrument ID: HP 5890/5971 GC/MS
Lab File ID: L2381.D
Initial Weight/Volume: 5 mL
Final Weight/Volume: 5 mL

Analyte	Result (ug/L)	Qualifier	MDL	RL
Acetone	10	U	1.6	10
Benzene	5.0	U	0.23	5.0
Bromodichloromethane	5.0	U	0.24	5.0
Bromoform	5.0	U	1.2	5.0
Bromomethane	5.0	U	1.0	5.0
Methyl Ethyl Ketone	10	U	1.1	10
Carbon disulfide	5.0	U	0.14	5.0
Carbon tetrachloride	5.0	U	0.29	5.0
Chlorobenzene	5.0	U	0.15	5.0
Chloroethane	5.0	U	0.48	5.0
Chloroform	5.0	U	0.27	5.0
Chloromethane	5.0	U	0.24	5.0
Dibromochloromethane	5.0	U	0.21	5.0
1,1-Dichloroethane	5.0	U	0.23	5.0
1,2-Dichloroethane	5.0	U	0.25	5.0
1,1-Dichloroethene	5.0	U	0.25	5.0
1,2-Dichloropropane	5.0	U	0.32	5.0
cis-1,3-Dichloropropene	5.0	U	0.28	5.0
trans-1,3-Dichloropropene	5.0	U	0.28	5.0
Ethylbenzene	5.0	U	0.28	5.0
2-Hexanone	10	U	0.37	10
Methylene Chloride	4.3	J J ✓	0.26	5.0
methyl isobutyl ketone	10	U	0.38	10
Styrene	5.0	U	0.70	5.0
1,1,2,2-Tetrachloroethane	5.0	U	0.23	5.0
Tetrachloroethene	5.0	U	0.30	5.0
Toluene	5.0	U	0.090	5.0
1,1,1-Trichloroethane	5.0	U	0.38	5.0
1,1,2-Trichloroethane	5.0	U ✓	0.33	5.0
Trichloroethene	5.0	U	0.26	5.0
Vinyl chloride	5.0	U	0.30	5.0
Xylenes, Total	5.0	U	0.46	5.0
cis-1,2-Dichloroethene	5.0	U	0.33	5.0
trans-1,2-Dichloroethene	5.0	U	0.22	5.0

Surrogate	%Rec	Acceptance Limits
1,2-Dichloroethane-d4 (Surr)	101	53 - 125
4-Bromofluorobenzene	96	73 - 127
Dibromofluoromethane	100	54 - 137
Toluene-d8 (Surr)	86	63 - 121

EAM 1/7/08 DC 1/18/08

Client: GEI Consultants, Inc.

Job Number: 220-3509-1
Sdg Number: 220-3509

Client Sample ID: **TRIP BLANK EHS-TB-112907**

Lab Sample ID: 220-3509-2TB
Client Matrix: Water

Date Sampled: 11/29/2007 0000
Date Received: 11/30/2007 1855

8260B Volatile Organic Compounds by GC/MS

Method: 8260B
Preparation: 5030B
Dilution: 1.0
Date Analyzed: 12/04/2007 1040
Date Prepared: 12/04/2007 1040

Analysis Batch: 220-11611

Instrument ID: HP 5890/5971 GC/MS
Lab File ID: L2679.D
Initial Weight/Volume: 5 mL
Final Weight/Volume: 5 mL

Analyte	Result (ug/L)	Qualifier	MDL	RL
Acetone	10	U	1.6	10
Benzene	5.0	U	0.23	5.0
Bromodichloromethane	5.0	U	0.24	5.0
Bromoform	5.0	U	1.2	5.0
Bromomethane	5.0	U	1.0	5.0
Methyl Ethyl Ketone	10	U	1.1	10
Carbon disulfide	5.0	U	0.14	5.0
Carbon tetrachloride	5.0	U	0.29	5.0
Chlorobenzene	5.0	U	0.15	5.0
Chloroethane	5.0	U	0.48	5.0
Chloroform	5.0	U	0.27	5.0
Chloromethane	5.0	U	0.24	5.0
Dibromochloromethane	5.0	U	0.21	5.0
1,1-Dichloroethane	5.0	U	0.23	5.0
1,2-Dichloroethane	5.0	U	0.25	5.0
1,1-Dichloroethene	5.0	U	0.25	5.0
1,2-Dichloropropane	5.0	U	0.32	5.0
cis-1,3-Dichloropropene	5.0	U	0.28	5.0
trans-1,3-Dichloropropene	5.0	U	0.28	5.0
Ethylbenzene	5.0	U	0.28	5.0
2-Hexanone	10	U	0.37	10
Methylene Chloride	2.1	J J	0.26	5.0
methyl isobutyl ketone	10	U	0.38	10
Styrene	5.0	U	0.70	5.0
1,1,2,2-Tetrachloroethane	5.0	U	0.23	5.0
Tetrachloroethene	5.0	U	0.30	5.0
Toluene	5.0	U	0.090	5.0
1,1,1-Trichloroethane	5.0	U	0.38	5.0
1,1,2-Trichloroethane	5.0	U	0.33	5.0
Trichloroethene	5.0	U	0.26	5.0
Vinyl chloride	5.0	U	0.30	5.0
Xylenes, Total	5.0	U	0.46	5.0
cis-1,2-Dichloroethene	5.0	U	0.33	5.0
trans-1,2-Dichloroethene	5.0	U	0.22	5.0

Surrogate	%Rec	Acceptance Limits
1,2-Dichloroethane-d4 (Surr)	76	53 - 125
4-Bromofluorobenzene	109	73 - 127
Dibromofluoromethane	76	54 - 137
Toluene-d8 (Surr)	85	63 - 121

EMM 1/9/08

Client: GEI Consultants, Inc.

Job Number: 220-3539-1
Sdg Number: 220-3539

Client Sample ID: EHS-TB-120407

Lab Sample ID: 220-3539-5TB
Client Matrix: Water

Date Sampled: 12/04/2007 0000
Date Received: 12/04/2007 1600

8260B Volatile Organic Compounds by GC/MS

Method: 8260B
Preparation: 5030B
Dilution: 1.0
Date Analyzed: 12/06/2007 1451
Date Prepared: 12/06/2007 1451

Analysis Batch: 220-11665

Instrument ID: HP 6890/5973 GC/MS
Lab File ID: W3039.D
Initial Weight/Volume: 5 mL
Final Weight/Volume: 5 mL

Analyte	Result (ug/L)	Qualifier	MDL	RL
Acetone	10	U	1.6	10
Benzene	5.0	U	0.23	5.0
Bromodichloromethane	5.0	U	0.24	5.0
Bromoform	5.0	U	1.2	5.0
Bromomethane	5.0	U	1.0	5.0
Methyl Ethyl Ketone	10	U	1.1	10
Carbon disulfide	5.0	U	0.14	5.0
Carbon tetrachloride	5.0	U	0.29	5.0
Chlorobenzene	5.0	U	0.15	5.0
Chloroethane	5.0	U	0.48	5.0
Chloroform	5.0	U	0.27	5.0
Chloromethane	5.0	U	0.24	5.0
Dibromochloromethane	5.0	U	0.21	5.0
1,1-Dichloroethane	5.0	U	0.23	5.0
1,2-Dichloroethane	5.0	U	0.25	5.0
1,1-Dichloroethene	5.0	U	0.25	5.0
1,2-Dichloropropane	5.0	U	0.32	5.0
cis-1,3-Dichloropropene	5.0	U	0.28	5.0
trans-1,3-Dichloropropene	5.0	U	0.28	5.0
Ethylbenzene	5.0	U	0.28	5.0
2-Hexanone	10	U	0.37	10
Methylene Chloride	2.7	J	0.26	5.0
methyl isobutyl ketone	10	U	0.38	10
Styrene	5.0	U	0.70	5.0
1,1,2,2-Tetrachloroethane	5.0	U	0.23	5.0
Tetrachloroethene	5.0	U	0.30	5.0
Toluene	5.0	U	0.090	5.0
1,1,1-Trichloroethane	5.0	U	0.38	5.0
1,1,2-Trichloroethane	5.0	U	0.33	5.0
Trichloroethene	5.0	U	0.26	5.0
Vinyl chloride	5.0	U	0.30	5.0
Xylenes, Total	5.0	U	0.46	5.0
cis-1,2-Dichloroethene	5.0	U	0.33	5.0
trans-1,2-Dichloroethene	5.0	U	0.22	5.0

Surrogate	%Rec	Acceptance Limits
1,2-Dichloroethane-d4 (Surr)	109	53 - 125
4-Bromofluorobenzene	79	73 - 127
Dibromofluoromethane	101	54 - 137
Toluene-d8 (Surr)	82	63 - 121

EMM 1/7/08

DD 1/18/08

General Chemistry

Client Sample ID: EHS-FB-01

Lab Sample ID: 220-3438-1FB
Client Matrix: Water

Date Sampled: 11/19/2007 0945
Date Received: 11/20/2007 1910

Analyte	Result	Qual	Units	MDL	RL	Dil	Method
Sulfate	1.0	U	mg/L	0.0086	1.0	1.0	300.0
	Anly Batch: 220-11388	Date Analyzed	11/22/2007 0948				
Sulfide	1.0	U	mg/L	0.22	1.0	1.0	376.1
	Anly Batch: 220-11321	Date Analyzed	11/21/2007 1243				

Client Sample ID: EHS-FB-02

Lab Sample ID: 220-3438-2FB
Client Matrix: Water

Date Sampled: 11/19/2007 1045
Date Received: 11/20/2007 1910

Analyte	Result	Qual	Units	MDL	RL	Dil	Method
Sulfate	1.0	U	mg/L	0.0086	1.0	1.0	300.0
	Anly Batch: 220-11388	Date Analyzed	11/22/2007 1002				
Sulfide	1.0	U	mg/L	0.22	1.0	1.0	376.1
	Anly Batch: 220-11321	Date Analyzed	11/21/2007 1243				

DG 1/18/08

JDM 1/3/08

Client: GEI Consultants, Inc.

Job Number: 220-3509-1
Sdg Number: 220-3509

Client Sample ID: EHS-GW-01

Lab Sample ID: 220-3509-1
Client Matrix: Water

Date Sampled: 11/29/2007 1100
Date Received: 11/30/2007 1855

8260B Volatile Organic Compounds by GC/MS

Method: 8260B
Preparation: 5030B
Dilution: 1.0
Date Analyzed: 12/04/2007 1129
Date Prepared: 12/04/2007 1129

Analysis Batch: 220-11611

Instrument ID: HP 5890/5971 GC/MS
Lab File ID: L2681.D
Initial Weight/Volume: 5 mL
Final Weight/Volume: 5 mL

Analyte	Result (ug/L)	Qualifier	MDL	RL
Acetone	10	U	1.6	10
Benzene	5.0	U	0.23	5.0
Bromodichloromethane	5.0	U	0.24	5.0
Bromoform	5.0	U	1.2	5.0
Bromomethane	5.0	U	1.0	5.0
Methyl Ethyl Ketone	10	U	1.1	10
Carbon disulfide	5.0	U	0.14	5.0
Carbon tetrachloride	5.0	U	0.29	5.0
Chlorobenzene	5.0	U	0.15	5.0
Chloroethane	5.0	U	0.48	5.0
Chloroform	5.0	U	0.27	5.0
Chloromethane	5.0	U	0.24	5.0
Dibromochloromethane	5.0	U	0.21	5.0
1,1-Dichloroethane	5.0	U	0.23	5.0
1,2-Dichloroethane	5.0	U	0.25	5.0
1,1-Dichloroethene	5.0	U	0.25	5.0
1,2-Dichloropropane	5.0	U	0.32	5.0
cis-1,3-Dichloropropene	5.0	U	0.28	5.0
trans-1,3-Dichloropropene	5.0	U	0.28	5.0
Ethylbenzene	5.0	U	0.28	5.0
2-Hexanone	10	U	0.37	10
Methylene Chloride	5.0	U	0.26	5.0
methyl isobutyl ketone	10	U	0.38	10
Styrene	5.0	U	0.70	5.0
1,1,2,2-Tetrachloroethane	5.0	U	0.23	5.0
Tetrachloroethene	5.0	U	0.30	5.0
Toluene	5.0	U	0.090	5.0
1,1,1-Trichloroethane	5.0	U	0.38	5.0
1,1,2-Trichloroethane	5.0	U	0.33	5.0
Trichloroethene	5.0	U	0.26	5.0
Vinyl chloride	5.0	U	0.30	5.0
Xylenes, Total	5.0	U	0.46	5.0
cis-1,2-Dichloroethene	5.0	U	0.33	5.0
trans-1,2-Dichloroethene	5.0	U	0.22	5.0

Surrogate	%Rec	Acceptance Limits
1,2-Dichloroethane-d4 (Surr)	68	53 - 125
4-Bromofluorobenzene	93	73 - 127
Dibromofluoromethane	72	54 - 137
Toluene-d8 (Surr)	76	63 - 121

EHM 1/9/08 DB 1/18/08

Client: GEI Consultants, Inc.

Job Number: 220-3509-1
Sdg Number: 220-3509

Client Sample ID: EHS-GW-01

Lab Sample ID: 220-3509-1
Client Matrix: Water

Date Sampled: 11/29/2007 1100
Date Received: 11/30/2007 1855

8270C Semivolatile Compounds by Gas Chromatography/Mass Spectrometry (GC/MS)

Method: 8270C
Preparation: 3510C
Dilution: 1.0
Date Analyzed: 12/06/2007 2122
Date Prepared: 12/05/2007 1420

Analysis Batch: 220-11648
Prep Batch: 220-11633

Instrument ID: HP 6890/5975
Lab File ID: A7876.D
Initial Weight/Volume: 960 mL
Final Weight/Volume: 1 mL
Injection Volume: 1 uL

Analyte	Result (ug/L)	Qualifier	MDL	RL
Acenaphthene	10	U	0.36	10
Acenaphthylene	10	U	0.36	10
Anthracene	10	U	0.34	10
Benzo[a]anthracene	10	U	0.46	10
Benzo[a]pyrene	10	U	0.33	10
Benzo[b]fluoranthene	10	U	0.47	10
Benzo[g,h,i]perylene	10	U	0.42	10
Benzo[k]fluoranthene	10	U	0.31	10
Bis(2-chloroethoxy)methane	10	U	0.53	10
Bis(2-chloroethyl)ether	10	U	2.1	10
Bis(2-ethylhexyl) phthalate	10	U	1.8	10
Butyl benzyl phthalate	10	U	0.45	10
Carbazole	10	U	0.63	10
Chrysene	10	U	0.41	10
Di-n-butyl phthalate	10	U	2.0	10
Di-n-octyl phthalate	10	U	0.36	10
4-Bromophenyl phenyl ether	10	U	0.27	10
4-Chloroaniline	10	U	0.32	10
2-Chloronaphthalene	10	U	0.48	10
4-Chlorophenyl phenyl ether	10	U	0.50	10
Dibenz(a,h)anthracene	10	U	0.40	10
Dibenzofuran	10	U	0.48	10
Diethyl phthalate	10	U	0.39	10
Dimethyl phthalate	10	U	0.31	10
1,2-Dichlorobenzene	10	U	0.45	10
1,3-Dichlorobenzene	10	U	0.51	10
1,4-Dichlorobenzene	10	U	0.39	10
3,3'-Dichlorobenzidine	10	U	0.63	10
2,4-Dinitrotoluene	10	U	0.50	10
2,6-Dinitrotoluene	10	U	0.51	10
Fluoranthene	10	U	0.53	10
Fluorene	10	U	0.36	10
Hexachlorobenzene	10	U	0.36	10
Hexachlorobutadiene	10	U	0.77	10
Hexachlorocyclopentadiene	10	U	1.3	10
Hexachloroethane	10	U	0.67	10
Indeno[1,2,3-cd]pyrene	10	U	0.53	10
Isophorone	10	U	0.56	10
2-Methylnaphthalene	10	U	0.51	10
Naphthalene	10	U	0.48	10
2-Nitroaniline	52	U	0.47	52
3-Nitroaniline	52	U	0.42	52
Nitrobenzene	10	U	0.52	10
N-Nitrosodi-n-propylamine	10	U	0.61	10

EnM 1/9/08 DB 1/18/08

Client: GEI Consultants, Inc.

Job Number: 220-3509-1
Sdg Number: 220-3509

Client Sample ID: EHS-GW-01

Lab Sample ID: 220-3509-1
Client Matrix: Water

Date Sampled: 11/29/2007 1100
Date Received: 11/30/2007 1855

8270C Semivolatile Compounds by Gas Chromatography/Mass Spectrometry (GC/MS)

Method: 8270C
Preparation: 3510C
Dilution: 1.0
Date Analyzed: 12/06/2007 2122
Date Prepared: 12/05/2007 1420

Analysis Batch: 220-11648
Prep Batch: 220-11633

Instrument ID: HP 6890/5975
Lab File ID: A7876.D
Initial Weight/Volume: 960 mL
Final Weight/Volume: 1 mL
Injection Volume: 1 uL

Analyte	Result (ug/L)	Qualifier	MDL	RL
N-Nitrosodiphenylamine	10	U	0.43	10
Phenanthrene	10	U	0.30	10
Pyrene	10	U	0.42	10
1,2,4-Trichlorobenzene	10	U	0.49	10
4-Chloro-3-methylphenol	10	U	0.45	10
2-Chlorophenol	10	U	0.48	10
2-Methylphenol	10	U	0.52	10
4-Methylphenol	10	U	0.41	10
2,4-Dichlorophenol	10	U	0.31	10
2,4-Dimethylphenol	10	U	0.66	10
2,4-Dinitrophenol	52	U	1.7	52
4,6-Dinitro-2-methylphenol	52	U	3.4	52
2-Nitrophenol	10	U	0.52	10
4-Nitrophenol	52	U	1.3	52
Pentachlorophenol	52	U	4.3	52
Phenol	10	U	0.89	10
2,4,5-Trichlorophenol	52	U	0.34	52
2,4,6-Trichlorophenol	10	U	0.43	10
Benzyl alcohol	10	U	0.88	10
4-Nitroaniline	21	U	0.52	21
2,2'-oxybis[1-chloropropane]	10	U	0.56	10

Surrogate	%Rec	Acceptance Limits
2-Fluorobiphenyl	69	43 - 116
2-Fluorophenol	41	21 - 97
2,4,6-Tribromophenol	88	29 - 126
Nitrobenzene-d5	64	38 - 113
Phenol-d5	29	18 - 97
Terphenyl-d14	89	10 - 119

EMM 1/9/08.

DB 1/18/08

Client: GEI Consultants, Inc.

Job Number: 220-3509-1
Sdg Number: 220-3509

Client Sample ID: EHS-GW-01

Lab Sample ID: 220-3509-1
Client Matrix: Water

Date Sampled: 11/29/2007 1100
Date Received: 11/30/2007 1855

6010B Inductively Coupled Plasma - Atomic Emission Spectrometry

Method: 6010B
Preparation: 3010A
Dilution: 1.0
Date Analyzed: 12/07/2007 1526
Date Prepared: 12/04/2007 0847

Analysis Batch: 220-11696
Prep Batch: 220-11543

Instrument ID: TJA Trace ICAP
Lab File ID: W120707
Initial Weight/Volume: 50 mL
Final Weight/Volume: 50 mL

Analyte	Result (ug/L)	Qualifier	MDL	RL
Silver	5.0	U	1.3	5.0
Aluminum	37900		84	500
Arsenic	71		5.4	25
Barium	330		2.3	5.0
Beryllium	2.5	J ✓	0.60	5.0
Calcium	11800		130	300
Cadmium	10	U	1.1	10
Cobalt	25 J ✓		2.1	10
Chromium	300		1.9	10
Copper	150		3.9	10
Iron	128000		51	200
Potassium	5100		130	400
Magnesium	7600		55	100
Manganese	3300		5.2	15
Sodium	21400		350	400
Nickel	57		1.9	10
Lead	62		4.9	10
Antimony	50	U	6.0	50
Selenium	30	U	9.8	30
Thallium	12	J ✓	8.1	40
Vanadium	110		1.0	5.0
Zinc	520		12	50

7470A Mercury in Liquid Waste (Manual Cold Vapor Technique)

Method: 7470A
Preparation: 7470A
Dilution: 1.0
Date Analyzed: 12/11/2007 2013
Date Prepared: 12/11/2007 1749

Analysis Batch: 220-11772
Prep Batch: 220-11768

Instrument ID: Perkin Elmer FIMS
Lab File ID: N/A
Initial Weight/Volume: 25 mL
Final Weight/Volume: 50 mL

Analyte	Result (ug/L)	Qualifier	MDL	RL
Mercury	~~0.12~~ 0.40U ✓	~~J~~ ✓	~~0.10~~ 0.20 ✓	~~0.20~~ 0.40 ✓

JAm 1/3/08

DB 1/18/08

Client: GEI Consultants, Inc.

Job Number: 220-3509-1
Sdg Number: 220-3509

Client Sample ID: EHS-GW-01

Lab Sample ID: 220-3509-1
Client Matrix: Water

Date Sampled: 11/29/2007 1100
Date Received: 11/30/2007 1855

8081A Organochlorine Pesticides by Gas Chromatography

Method: 8081A
Preparation: 3510C
Dilution: 1.0
Date Analyzed: 12/13/2007 1941
Date Prepared: 12/05/2007 1200

Analysis Batch: 220-11856
Prep Batch: 220-11600

Instrument ID: HP 5890 with dual ECD
Lab File ID: D7516037.D
Initial Weight/Volume: 1000 mL
Final Weight/Volume: 10 mL
Injection Volume: 1 uL
Column ID: PRIMARY

Analyte	Result (ug/L)	Qualifier	MDL	RL
4,4'-DDD	0.15	U	0.014	0.15
4,4'-DDE	0.10	U	0.0088	0.10
4,4'-DDT	0.10	U	0.010	0.10
Aldrin	0.050	U	0.0058	0.050
alpha-BHC	0.050	U	0.011	0.050
beta-BHC	0.050	U	0.013	0.050
delta-BHC	0.050	U	0.0022	0.050
Dieldrin	0.10	U	0.0057	0.10
Endosulfan I	0.050	U	0.0035	0.050
Endosulfan II	0.10	U	0.0035	0.10
Endosulfan sulfate	0.10	U	0.014	0.10
Endrin	0.10	U	0.025	0.10
Endrin aldehyde	0.10	~~U~~ UJ ✓	0.028	0.10
Endrin ketone	0.10	UJ ✓	0.016	0.10
gamma-BHC (Lindane)	0.050	U	0.0052	0.050
Heptachlor	0.050	UJ ✓	0.0078	0.050
Heptachlor epoxide	0.050	U	0.0057	0.050
Methoxychlor	0.50	U	0.041	0.50
Toxaphene	2.5	U	0.21	2.5
alpha-Chlordane	0.050	U	0.0055	0.050
gamma-Chlordane	0.050	U	0.0061	0.050

Surrogate	%Rec	Acceptance Limits
DCB Decachlorobiphenyl	43	29 - 156
Tetrachloro-m-xylene	84	53 - 144

Method: 8081A
Preparation: 3510C
Dilution: 1.0
Date Analyzed: 12/13/2007 1941
Date Prepared: 12/05/2007 1200

Analysis Batch: 220-11856
Prep Batch: 220-11600

Instrument ID: HP 5890 with dual ECD
Lab File ID: C7516037.D
Initial Weight/Volume: 1000 mL
Final Weight/Volume: 10 mL
Injection Volume: 1 uL
Column ID: SECONDARY

Surrogate	%Rec	Acceptance Limits
DCB Decachlorobiphenyl	38	29 - 156
Tetrachloro-m-xylene	83	53 - 144

DB 1/18/08

1/1/08

Client: GEI Consultants, Inc.

Job Number: 220-3509-1
Sdg Number: 220-3509

Client Sample ID: EHS-GW-01

Lab Sample ID: 220-3509-1
Client Matrix: Water

Date Sampled: 11/29/2007 1100
Date Received: 11/30/2007 1855

8082 Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Method: 8082
Preparation: 3510C
Dilution: 1.0
Date Analyzed: 12/06/2007 2302
Date Prepared: 12/05/2007 1200

Analysis Batch: 220-11660
Prep Batch: 220-11600

Instrument ID: HP 5890 with dual ECD
Lab File ID: D4664165.d
Initial Weight/Volume: 1000 mL
Final Weight/Volume: 10 mL
Injection Volume: 1 uL
Column ID: PRIMARY

Analyte	Result (ug/L)	Qualifier	MDL	RL
PCB-1016	0.50	U	0.072	0.50
PCB-1221	1.0	U	0.23	1.0
PCB-1232	0.50	U	0.11	0.50
PCB-1242	0.50	U	0.11	0.50
PCB-1248	0.50	U	0.15	0.50
PCB-1254	0.50	U	0.037	0.50
PCB-1260	0.50	U	0.064	0.50

Surrogate	%Rec	Acceptance Limits
Tetrachloro-m-xylene	79	53 - 144
DCB Decachlorobiphenyl	44	29 - 156

TestAmerica Connecticut

Client Sample ID: EHS-GW-01

GC Semivolatiles

Lot-Sample #...:	A7L050368-001	**Work Order #...:**	KDH4W1AA	**Matrix.....:**	WG
Date Sampled...:	11/29/07 11:00	**Date Received..:**	12/05/07		
Prep Date.....:	12/06/07	**Analysis Date..:**	12/07/07		
Prep Batch #...:	7340041				
Dilution Factor:	1	**Initial Wgt/Vol:**	500 mL	**Final Wgt/Vol..:**	100 mL
		Method.....:	SW846 8151A		

PARAMETER	RESULT	REPORTING LIMIT	UNITS	MDL
2,4,5-T	ND	1.0	ug/L	0.17
2,4-D	ND	4.0	ug/L	1.5
2,4,5-TP	ND	1.0	ug/L	0.16

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
2,4-Dichlorophenylacetic acid	71	(32 - 112)

EHM 1/9/08

DB 1/18/08

Client: GEI Consultants, Inc.

Job Number: 220-3539-1
Sdg Number: 220-3539

Client Sample ID: EHS-GW-02

Lab Sample ID: 220-3539-1
Client Matrix: Water

Date Sampled: 12/03/2007 1125
Date Received: 12/04/2007 1600

8260B Volatile Organic Compounds by GC/MS

Method: 8260B
Preparation: 5030B
Dilution: 1.0
Date Analyzed: 12/06/2007 1544
Date Prepared: 12/06/2007 1544

Analysis Batch: 220-11665

Instrument ID: HP 6890/5973 GC/MS
Lab File ID: W3041.D
Initial Weight/Volume: 5 mL
Final Weight/Volume: 5 mL

Analyte	Result (ug/L)	Qualifier	MDL	RL
Acetone	10	U	1.6	10
Benzene	2.8	J	0.23	5.0
Bromodichloromethane	5.0	U	0.24	5.0
Bromoform	5.0	U	1.2	5.0
Bromomethane	5.0	U	1.0	5.0
Methyl Ethyl Ketone	10	U	1.1	10
Carbon disulfide	5.0	U	0.14	5.0
Carbon tetrachloride	5.0	U	0.29	5.0
Chlorobenzene	5.0	U	0.15	5.0
Chloroethane	5.0	U	0.48	5.0
Chloroform	5.0	U	0.27	5.0
Chloromethane	5.0	U	0.24	5.0
Dibromochloromethane	5.0	U	0.21	5.0
1,1-Dichloroethane	5.0	U	0.23	5.0
1,2-Dichloroethane	5.0	U	0.25	5.0
1,1-Dichloroethene	5.0	U	0.25	5.0
1,2-Dichloropropane	5.0	U	0.32	5.0
cis-1,3-Dichloropropene	5.0	U	0.28	5.0
trans-1,3-Dichloropropene	5.0	U	0.28	5.0
Ethylbenzene	5.0	U UJ	0.28	5.0
2-Hexanone	10	U	0.37	10
Methylene Chloride	5.0	U	0.26	5.0
methyl isobutyl ketone	10	U	0.38	10
Styrene	5.0	U UJ	0.70	5.0
1,1,2,2-Tetrachloroethane	5.0	U	0.23	5.0
Tetrachloroethene	5.0	U	0.30	5.0
Toluene	0.23	J J	0.090	5.0
1,1,1-Trichloroethane	5.0	U	0.38	5.0
1,1,2-Trichloroethane	5.0	U	0.33	5.0
Trichloroethene	5.0	U	0.26	5.0
Vinyl chloride	5.0	U	0.30	5.0
Xylenes, Total	5.0	U	0.46	5.0
cis-1,2-Dichloroethene	5.0	U	0.33	5.0
trans-1,2-Dichloroethene	5.0	U	0.22	5.0

Surrogate	%Rec	Acceptance Limits
1,2-Dichloroethane-d4 (Surr)	111	53 - 125
4-Bromofluorobenzene	81	73 - 127
Dibromofluoromethane	102	54 - 137
Toluene-d8 (Surr)	83	63 - 121

Client: GEI Consultants, Inc.

Job Number: 220-3539-1
Sdg Number: 220-3539

Client Sample ID: EHS-GW-02

Lab Sample ID: 220-3539-1
Client Matrix: Water

Date Sampled: 12/03/2007 1125
Date Received: 12/04/2007 1600

8270C Semivolatile Compounds by Gas Chromatography/Mass Spectrometry (GC/MS)

Method: 8270C
Preparation: 3510C
Dilution: 1.0
Date Analyzed: 12/12/2007 2151
Date Prepared: 12/10/2007 1530

Analysis Batch: 220-11829
Prep Batch: 220-11706

Instrument ID: HP 6890/5975
Lab File ID: C4073.D
Initial Weight/Volume: 1000 mL
Final Weight/Volume: 1.0 mL
Injection Volume: 1 uL

Analyte	Result (ug/L)	Qualifier	MDL	RL
Acenaphthene	10	U	0.35	10
Acenaphthylene	10	U	0.35	10
Anthracene	10	U	0.32	10
Benzo[a]anthracene	10	U	0.44	10
Benzo[a]pyrene	10	U	0.32	10
Benzo[b]fluoranthene	10	U	0.45	10
Benzo[g,h,i]perylene	10	U	0.40	10
Benzo[k]fluoranthene	10	U	0.29	10
Bis(2-chloroethoxy)methane	10	U	0.51	10
Bis(2-chloroethyl)ether	10	U	2.0	10
Bis(2-ethylhexyl) phthalate	10	U	1.7	10
Butyl benzyl phthalate	10	U	0.43	10
Carbazole	10	U	0.61	10
Chrysene	10	U	0.40	10
Di-n-butyl phthalate	10	U	1.9	10
Di-n-octyl phthalate	10	U	0.35	10
4-Bromophenyl phenyl ether	10	U	0.26	10
4-Chloroaniline	10	U	0.31	10
2-Chloronaphthalene	10	U	0.46	10
4-Chlorophenyl phenyl ether	10	U	0.48	10
Dibenz(a,h)anthracene	10	U	0.39	10
Dibenzofuran	10	U	0.46	10
Diethyl phthalate	10	U	0.37	10
Dimethyl phthalate	10	U	0.29	10
1,2-Dichlorobenzene	10	U	0.43	10
1,3-Dichlorobenzene	10	U	0.49	10
1,4-Dichlorobenzene	10	U	0.38	10
3,3'-Dichlorobenzidine	10	U	0.60	10
2,4-Dinitrotoluene	10	U	0.48	10
2,6-Dinitrotoluene	10	U	0.49	10
Fluoranthene	10	U	0.51	10
Fluorene	10	U	0.35	10
Hexachlorobenzene	10	U	0.35	10
Hexachlorobutadiene	10	U	0.74	10
Hexachlorocyclopentadiene	10	U	1.3	10
Hexachloroethane	10	U	0.64	10
Indeno[1,2,3-cd]pyrene	10	U	0.51	10
Isophorone	10	U	0.54	10
2-Methylnaphthalene	10	U	0.49	10
Naphthalene	10	U	0.47	10
2-Nitroaniline	50	U	0.45	50
3-Nitroaniline	50	U	0.41	50
Nitrobenzene	10	U	0.50	10
N-Nitrosodi-n-propylamine	10	U	0.59	10

DB 1/18/08 EMM 1/8/08

Client: GEI Consultants, Inc.

Job Number: 220-3539-1
Sdg Number: 220-3539

Client Sample ID: EHS-GW-02

Lab Sample ID: 220-3539-1
Client Matrix: Water

Date Sampled: 12/03/2007 1125
Date Received: 12/04/2007 1600

8270C Semivolatile Compounds by Gas Chromatography/Mass Spectrometry (GC/MS)

Method: 8270C
Preparation: 3510C
Dilution: 1.0
Date Analyzed: 12/12/2007 2151
Date Prepared: 12/10/2007 1530

Analysis Batch: 220-11829
Prep Batch: 220-11706

Instrument ID: HP 6890/5975
Lab File ID: C4073.D
Initial Weight/Volume: 1000 mL
Final Weight/Volume: 1.0 mL
Injection Volume: 1 uL

Analyte	Result (ug/L)	Qualifier	MDL	RL
N-Nitrosodiphenylamine	10	U	0.41	10
Phenanthrene	10	U	0.28	10
Pyrene	10	U	0.40	10
1,2,4-Trichlorobenzene	10	U	0.47	10
4-Chloro-3-methylphenol	10	U	0.43	10
2-Chlorophenol	10	U	0.46	10
2-Methylphenol	10	U	0.50	10
4-Methylphenol	10	U	0.39	10
2,4-Dichlorophenol	10	U	0.30	10
2,4-Dimethylphenol	10	U	0.63	10
2,4-Dinitrophenol	50	U	1.7	50
4,6-Dinitro-2-methylphenol	50	U	3.3	50
2-Nitrophenol	10	U	0.50	10
4-Nitrophenol	50	U	1.3	50
Pentachlorophenol	50	U	4.1	50
Phenol	10	U	0.85	10
2,4,5-Trichlorophenol	50	U	0.33	50
2,4,6-Trichlorophenol	10	U	0.42	10
Benzyl alcohol	10	U	0.84	10
4-Nitroaniline	20	U	0.50	20
2,2'-oxybis[1-chloropropane]	10	U	0.54	10

Surrogate	%Rec	Acceptance Limits
2-Fluorobiphenyl	78	43 - 116
2-Fluorophenol	50	21 - 97
2,4,6-Tribromophenol	93	29 - 126
Nitrobenzene-d5	79	38 - 113
Phenol-d5	32	18 - 97
Terphenyl-d14	103	10 - 119

EMM 1/8/08 DB 1/8/08

Client: GEI Consultants, Inc.

Job Number: 220-3539-1
Sdg Number: 220-3539

Client Sample ID: EHS-GW-02

Lab Sample ID: 220-3539-1
Client Matrix: Water

Date Sampled: 12/03/2007 1125
Date Received: 12/04/2007 1600

6010B Inductively Coupled Plasma - Atomic Emission Spectrometry

Method: 6010B
Preparation: 3010A
Dilution: 1.0
Date Analyzed: 12/10/2007 1629
Date Prepared: 12/06/2007 1004

Analysis Batch: 220-11721
Prep Batch: 220-11621

Instrument ID: TJA Trace ICAP
Lab File ID: W121007
Initial Weight/Volume: 50 mL
Final Weight/Volume: 50 mL

Analyte	Result (ug/L)	Qualifier	MDL	RL
Silver	5.0	U	1.3	5.0
Aluminum	160	J	84	500
Arsenic	25	U	5.4	25
Barium	58	J	2.3	5.0
Beryllium	5.0	U	0.60	5.0
Calcium	15300		130	300
Cadmium	10	U	1.1	10
Cobalt	10	U	2.1	10
Chromium	8.7	J	1.9	10
Copper	10	U	3.9	10
Iron	410		51	200
Potassium	1400	J	130	400
Magnesium	3600	J	55	100
Manganese	520		5.2	15
Sodium	22800		350	400
Nickel	9.5	J	1.9	10
Lead	10	U	4.9	10
Antimony	50	U	6.0	50
Selenium	30	U	9.8	30
Thallium	40	U	8.1	40
Vanadium	5.0	U	1.0	5.0
Zinc	19	J	12	50

7470A Mercury in Liquid Waste (Manual Cold Vapor Technique)

Method: 7470A
Preparation: 7470A
Dilution: 1.0
Date Analyzed: 12/15/2007 1837
Date Prepared: 12/15/2007 1554

Analysis Batch: 220-11902
Prep Batch: 220-11900

Instrument ID: Perkin Elmer FIMS
Lab File ID: N/A
Initial Weight/Volume: 25 mL
Final Weight/Volume: 50 mL

Analyte	Result (ug/L)	Qualifier	MDL	RL
Mercury	~~0.20~~ 0.40	U	~~0.10~~ 0.20	~~0.20~~ 0.40

Client: GEI Consultants, Inc.

Job Number: 220-3539-1
Sdg Number: 220-3539

Client Sample ID: **EHS-GW-02**

Lab Sample ID: 220-3539-1
Client Matrix: Water

Date Sampled: 12/03/2007 1125
Date Received: 12/04/2007 1600

8081A Organochlorine Pesticides by Gas Chromatography

Method: 8081A
Preparation: 3510C
Dilution: 1.0
Date Analyzed: 12/15/2007 2100
Date Prepared: 12/10/2007 2241

Analysis Batch: 220-11916
Prep Batch: 220-11710

Instrument ID: HP 5890 with dual ECD
Lab File ID: C7518020.D
Initial Weight/Volume: 1000 mL
Final Weight/Volume: 10 mL
Injection Volume: 1 uL
Column ID: PRIMARY

Analyte	Result (ug/L)	Qualifier	MDL	RL
4,4'-DDD	0.030 J ✓	~~J M~~	0.014	0.15
4,4'-DDE	0.10	U	0.0088	0.10
4,4'-DDT	0.10	UJ ✓	0.010	0.10
Aldrin	0.050	U	0.0058	0.050
alpha-BHC	0.050	U	0.011	0.050
beta-BHC	0.050	U	0.013	0.050
delta-BHC	0.050	U	0.0022	0.050
Dieldrin	0.012 J ✓	~~J M~~	0.0057	0.10
Endosulfan I	0.050	U	0.0035	0.050
Endosulfan II	0.10	U	0.0035	0.10
Endosulfan sulfate	0.10	U	0.014	0.10
Endrin	0.10	U	0.025	0.10
Endrin aldehyde	0.10	UJ ✓	0.028	0.10
Endrin ketone	0.10	U	0.016	0.10
gamma-BHC (Lindane)	0.050	U	0.0052	0.050
Heptachlor	0.050	U	0.0078	0.050
Heptachlor epoxide	0.050	U	0.0057	0.050
Methoxychlor	0.50	U	0.041	0.50
Toxaphene	2.5	U	0.21	2.5
alpha-Chlordane	0.050	U	0.0055	0.050
gamma-Chlordane	0.050	U	0.0061	0.050

Surrogate	%Rec	Acceptance Limits
DCB Decachlorobiphenyl	57	29 - 156
Tetrachloro-m-xylene	93	53 - 144

Method: 8081A
Preparation: 3510C
Dilution: 1.0
Date Analyzed: 12/15/2007 2100
Date Prepared: 12/10/2007 2241

Analysis Batch: 220-11916
Prep Batch: 220-11710

Instrument ID: HP 5890 with dual ECD
Lab File ID: C7518020.D
Initial Weight/Volume: 1000 mL
Final Weight/Volume: 10 mL
Injection Volume: 1 uL
Column ID: SECONDARY

Surrogate	%Rec	Acceptance Limits
DCB Decachlorobiphenyl	52	29 - 156
Tetrachloro-m-xylene	95	53 - 144

DB 1/18/08

Jam 1/2/08

Client: GEI Consultants, Inc.

Job Number: 220-3539-1
Sdg Number: 220-3539

Client Sample ID: **EHS-GW-02**

Lab Sample ID: 220-3539-1
Client Matrix: Water

Date Sampled: 12/03/2007 1125
Date Received: 12/04/2007 1600

8082 Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Method: 8082
Preparation: 3510C
Dilution: 1.0
Date Analyzed: 12/14/2007 1854
Date Prepared: 12/10/2007 2241

Analysis Batch: 220-11915
Prep Batch: 220-11710

Instrument ID: HP 5890 with dual ECD
Lab File ID: D4666076.d
Initial Weight/Volume: 1000 mL
Final Weight/Volume: 10 mL
Injection Volume: 1 uL
Column ID: PRIMARY

Analyte	Result (ug/L)	Qualifier	MDL	RL
PCB-1016	0.50	U	0.072	0.50
PCB-1221	1.0	U	0.23	1.0
PCB-1232	0.50	U	0.11	0.50
PCB-1242	0.50	U	0.11	0.50
PCB-1248	0.50	U	0.15	0.50
PCB-1254	0.50	U	0.037	0.50
PCB-1260	0.16 J	~~J M~~ ✓	0.064	0.50

Surrogate	%Rec	Acceptance Limits
Tetrachloro-m-xylene	93	53 - 144
DCB Decachlorobiphenyl	55	29 - 156

Method: 8082
Preparation: 3510C
Dilution: 1.0
Date Analyzed: 12/14/2007 1854
Date Prepared: 12/10/2007 2241

Analysis Batch: 220-11915
Prep Batch: 220-11710

Instrument ID: HP 5890 with dual ECD
Lab File ID: D4666076.d
Initial Weight/Volume: 1000 mL
Final Weight/Volume: 10 mL
Injection Volume: 1 uL
Column ID: SECONDARY

Surrogate	%Rec	Acceptance Limits
Tetrachloro-m-xylene	87	53 - 144
DCB Decachlorobiphenyl	49	29 - 156

DB 1/18/08

JAM 1/1/08

TestAmerica Connecticut

Client Sample ID: EHS-GW-02

GC Semivolatiles

Lot-Sample #...: A7L060295-001	**Work Order #...:** KDLMQ1AA	**Matrix.....:** WG	
Date Sampled...: 12/03/07 11:25	**Date Received..:** 12/06/07		
Prep Date.....: 12/10/07	**Analysis Date..:** 12/11/07		
Prep Batch #...: 7344015			
Dilution Factor: 1	**Initial Wgt/Vol:** 500 mL	**Final Wgt/Vol..:** 100 mL	
	Method.....: SW846 8151A		

PARAMETER	RESULT	REPORTING LIMIT	UNITS	MDL
2,4,5-T	ND	1.0	ug/L	0.17
2,4-D	ND	4.0	ug/L	1.5
2,4,5-TP	ND	1.0	ug/L	0.16

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
2,4-Dichlorophenylacetic acid	77	(32 - 112)

EHM 1/18/08

DB 1/18/08

Duplicate of EHS-GW-02

Analytical Data

Job Number: 220-3539-1
Sdg Number: 220-3539

Client: GEI Consultants, Inc.

Client Sample ID: EHS-GW-XX-120307
Lab Sample ID: 220-3539-4
Client Matrix: Water

Date Sampled: 12/03/2007 1700
Date Received: 12/04/2007 1600

8260B Volatile Organic Compounds by GC/MS

Analysis Batch: 220-11665

Method: 8260B
Preparation: 5030B
Dilution: 1.0
Date Analyzed: 12/06/2007 1704
Date Prepared: 12/06/2007 1704

Instrument ID: HP 6890/5973 GC/MS
Lab File ID: W3044.D
Initial Weight/Volume: 5 mL
Final Weight/Volume: 5 mL

Analyte	Result (ug/L)	Qualifier	MDL	RL
Acetone	10	U	1.6	10
Benzene	0.79	J ✓	0.23	5.0
Bromodichloromethane	5.0	U	0.24	5.0
Bromoform	5.0	U	1.2	5.0
Bromomethane	5.0	U	1.0	5.0
Methyl Ethyl Ketone	10	U	1.1	10
Carbon disulfide	5.0	U ✓	0.14	5.0
Carbon tetrachloride	5.0	U	0.29	5.0
Chlorobenzene	5.0	U	0.15	5.0
Chloroethane	5.0	U	0.48	5.0
Chloroform	5.0	U	0.27	5.0
Chloromethane	5.0	U	0.24	5.0
Dibromochloromethane	5.0	U	0.21	5.0
1,1-Dichloroethane	5.0	U	0.23	5.0
1,2-Dichloroethane	5.0	U	0.25	5.0
1,1-Dichloroethene	5.0	U	0.25	5.0
1,2-Dichloropropane	5.0	U	0.32	5.0
cis-1,3-Dichloropropene	5.0	U	0.28	5.0
trans-1,3-Dichloropropene	5.0	U	0.28	5.0
Ethylbenzene	10	U	0.28	5.0
2-Hexanone	5.0	U	0.37	10
Methylene Chloride	10	U	0.26	5.0
methyl isobutyl ketone	5.0	U	0.38	10
Styrene	5.0	U	0.70	5.0
1,1,2,2-Tetrachloroethane	5.0	U	0.23	5.0
Tetrachloroethene	0.11	J J ✓	0.30	5.0
Toluene	5.0	U	0.090	5.0
1,1,1-Trichloroethane	5.0	U	0.38	5.0
1,1,2-Trichloroethane	5.0	U	0.33	5.0
Trichloroethene	5.0	U	0.26	5.0
Vinyl chloride	5.0	U	0.30	5.0
Xylenes, Total	5.0	U	0.46	5.0
cis-1,2-Dichloroethene	5.0	U	0.33	5.0
trans-1,2-Dichloroethene		U	0.22	5.0

Surrogate	%Rec	Acceptance Limits
1,2-Dichloroethane-d4 (Surr)	112	53 - 125
4-Bromofluorobenzene	80	73 - 127
Dibromofluoromethane	105	54 - 137
Toluene-d8 (Surr)	84	63 - 121

EHM 1/7/08 DB 1/18/08 12/28/2007

Duplicate of EHS-GW-62

Analytical Data

Client: GEI Consultants, Inc.

Job Number: 220-3539-1
Sdg Number: 220-3539

Client Sample ID: **EHS-GW-XX-120307**

Lab Sample ID: 220-3539-4
Client Matrix: Water

Date Sampled: 12/03/2007 1700
Date Received: 12/04/2007 1600

8270C Semivolatile Compounds by Gas Chromatography/Mass Spectrometry (GC/MS)

Method: 8270C
Preparation: 3510C
Dilution: 1.0
Date Analyzed: 12/12/2007 2303
Date Prepared: 12/10/2007 1530

Analysis Batch: 220-11829
Prep Batch: 220-11706

Instrument ID: HP 6890/5975
Lab File ID: C4076.D
Initial Weight/Volume: 1000 mL
Final Weight/Volume: 1.0 mL
Injection Volume: 1 uL

Analyte	Result (ug/L)	Qualifier	MDL	RL
Acenaphthene	10	U	0.35	10
Acenaphthylene	10	U	0.35	10
Anthracene	10	U	0.32	10
Benzo[a]anthracene	10	U	0.44	10
Benzo[a]pyrene	10	U	0.32	10
Benzo[b]fluoranthene	10	U	0.45	10
Benzo[g,h,i]perylene	10	U	0.40	10
Benzo[k]fluoranthene	10	U	0.29	10
Bis(2-chloroethoxy)methane	10	U	0.51	10
Bis(2-chloroethyl)ether	10	U	2.0	10
Bis(2-ethylhexyl) phthalate	10	U	1.7	10
Butyl benzyl phthalate	10	U	0.43	10
Carbazole	10	U	0.61	10
Chrysene	10	U	0.40	10
Di-n-butyl phthalate	10	U	1.9	10
Di-n-octyl phthalate	10	U	0.35	10
4-Bromophenyl phenyl ether	10	U	0.26	10
4-Chloroaniline	10	U	0.31	10
2-Chloronaphthalene	10	U	0.46	10
4-Chlorophenyl phenyl ether	10	U	0.48	10
Dibenz(a,h)anthracene	10	U	0.39	10
Dibenzofuran	10	U	0.46	10
Diethyl phthalate	10	U	0.37	10
Dimethyl phthalate	10	U	0.29	10
1,2-Dichlorobenzene	10	U	0.43	10
1,3-Dichlorobenzene	10	U	0.49	10
1,4-Dichlorobenzene	10	U	0.38	10
3,3'-Dichlorobenzidine	10	U	0.60	10
2,4-Dinitrotoluene	10	U	0.48	10
2,6-Dinitrotoluene	10	U	0.49	10
Fluoranthene	10	U	0.51	10
Fluorene	10	U	0.35	10
Hexachlorobenzene	10	U	0.35	10
Hexachlorobutadiene	10	U	0.74	10
Hexachlorocyclopentadiene	10	U	1.3	10
Hexachloroethane	10	U	0.64	10
Indeno[1,2,3-cd]pyrene	10	U	0.51	10
Isophorone	10	U	0.54	10
2-Methylnaphthalene	10	U	0.49	10
Naphthalene	10	U	0.47	10
2-Nitroaniline	50	U	0.45	50
3-Nitroaniline	50	U	0.41	50
Nitrobenzene	10	U	0.50	10
N-Nitrosodi-n-propylamine	10	U	0.59	10

DB 1/18/08 EMM 1/18/08

Duplicate of EHS-GW-02

Analytical Data

Client: GEI Consultants, Inc.

Job Number: 220-3539-1
Sdg Number: 220-3539

Client Sample ID: **EHS-GW-XX-120307**

Lab Sample ID: 220-3539-4
Client Matrix: Water

Date Sampled: 12/03/2007 1700
Date Received: 12/04/2007 1600

8270C Semivolatile Compounds by Gas Chromatography/Mass Spectrometry (GC/MS)

Method: 8270C
Preparation: 3510C
Dilution: 1.0
Date Analyzed: 12/12/2007 2303
Date Prepared: 12/10/2007 1530

Analysis Batch: 220-11829
Prep Batch: 220-11706

Instrument ID: HP 6890/5975
Lab File ID: C4076.D
Initial Weight/Volume: 1000 mL
Final Weight/Volume: 1.0 mL
Injection Volume: 1 uL

Analyte	Result (ug/L)	Qualifier	MDL	RL
N-Nitrosodiphenylamine	10	U	0.41	10
Phenanthrene	10	U	0.28	10
Pyrene	10	U	0.40	10
1,2,4-Trichlorobenzene	10	U	0.47	10
4-Chloro-3-methylphenol	10	U	0.43	10
2-Chlorophenol	10	U	0.46	10
2-Methylphenol	10	U	0.50	10
4-Methylphenol	10	U	0.39	10
2,4-Dichlorophenol	10	U	0.30	10
2,4-Dimethylphenol	10	U	0.63	10
2,4-Dinitrophenol	50	U	1.7	50
4,6-Dinitro-2-methylphenol	50	U	3.3	50
2-Nitrophenol	10	U	0.50	10
4-Nitrophenol	50	U	1.3	50
Pentachlorophenol	50	U	4.1	50
Phenol	10	U	0.85	10
2,4,5-Trichlorophenol	50	U	0.33	50
2,4,6-Trichlorophenol	10	U	0.42	10
Benzyl alcohol	10	U	0.84	10
4-Nitroaniline	20	U	0.50	20
2,2'-oxybis[1-chloropropane]	10	U	0.54	10

Surrogate	%Rec		Acceptance Limits
2-Fluorobiphenyl	87		43 - 116
2-Fluorophenol	52		21 - 97
2,4,6-Tribromophenol	103		29 - 126
Nitrobenzene-d5	85		38 - 113
Phenol-d5	35		18 - 97
Terphenyl-d14	120	*	10 - 119

DB 1/18/08 EHM 1/8/08

Duplicate of EHS-GW-02

Analytical Data

Client: GEI Consultants, Inc.

Job Number: 220-3539-1
Sdg Number: 220-3539

Client Sample ID: EHS-GW-XX-120307

Lab Sample ID: 220-3539-4
Client Matrix: Water

Date Sampled: 12/03/2007 1700
Date Received: 12/04/2007 1600

6010B Inductively Coupled Plasma - Atomic Emission Spectrometry

Method: 6010B
Preparation: 3010A
Dilution: 1.0
Date Analyzed: 12/10/2007 1657
Date Prepared: 12/06/2007 1004

Analysis Batch: 220-11721
Prep Batch: 220-11621

Instrument ID: TJA Trace ICAP
Lab File ID: W121007
Initial Weight/Volume: 50 mL
Final Weight/Volume: 50 mL

Analyte	Result (ug/L)	Qualifier	MDL	RL
Silver	5.0	U	1.3	5.0
Aluminum	200	J ✓	84	500
Arsenic	25	U	5.4	25
Barium	60 J ✓		2.3	5.0
Beryllium	5.0	U	0.60	5.0
Calcium	15700		130	300
Cadmium	10	U	1.1	10
Cobalt	10	U	2.1	10
Chromium	11		1.9	10
Copper	10	U	3.9	10
Iron	530		51	200
Potassium	1400 J ✓		130	400
Magnesium	3600 J ✓		55	100
Manganese	540		5.2	15
Sodium	23800		350	400
Nickel	13		1.9	10
Lead	10	U	4.9	10
Antimony	50	U	6.0	50
Selenium	30	U	9.8	30
Thallium	40	U	8.1	40
Vanadium	5.0	U	1.0	5.0
Zinc	22	J ✓	12	50

7470A Mercury in Liquid Waste (Manual Cold Vapor Technique)

Method: 7470A
Preparation: 7470A
Dilution: 1.0
Date Analyzed: 12/15/2007 1842
Date Prepared: 12/15/2007 1554

Analysis Batch: 220-11902
Prep Batch: 220-11900

Instrument ID: Perkin Elmer FIMS
Lab File ID: N/A
Initial Weight/Volume: 25 mL
Final Weight/Volume: 50 mL

Analyte	Result (ug/L)	Qualifier	MDL	RL
Mercury	~~0.20~~ 0.40 ✓	U	~~0.10~~ 0.20 ✓	~~0.20~~ 0.40 ✓

Jam 4/3/08

PB 1/18/08

Duplicate of EHS-GW-02

Analytical Data

Client: GEI Consultants, Inc.

Job Number: 220-3539-1
Sdg Number: 220-3539

Client Sample ID: **EHS-GW-XX-120307**

Lab Sample ID: 220-3539-4
Client Matrix: Water

Date Sampled: 12/03/2007 1700
Date Received: 12/04/2007 1600

8081A Organochlorine Pesticides by Gas Chromatography

Method: 8081A
Preparation: 3510C
Dilution: 1.0
Date Analyzed: 12/15/2007 2204
Date Prepared: 12/10/2007 2241

Analysis Batch: 220-11916
Prep Batch: 220-11710

Instrument ID: HP 5890 with dual ECD
Lab File ID: D7518023.D
Initial Weight/Volume: 1000 mL
Final Weight/Volume: 10 mL
Injection Volume: 1 uL
Column ID: PRIMARY

Analyte	Result (ug/L)	Qualifier	MDL	RL
4,4'-DDD	0.15	U	0.014	0.15
4,4'-DDE	0.10	U	0.0088	0.10
4,4'-DDT	0.10	UJ ✓	0.010	0.10
Aldrin	0.050	U	0.0058	0.050
alpha-BHC	0.050	U	0.011	0.050
beta-BHC	0.050	U	0.013	0.050
delta-BHC	0.050	U	0.0022	0.050
Dieldrin	0.10	U	0.0057	0.10
Endosulfan I	0.050	U	0.0035	0.050
Endosulfan II	0.10	U	0.0035	0.10
Endosulfan sulfate	0.10	U	0.014	0.10
Endrin	0.10	U	0.025	0.10
Endrin aldehyde	0.10	UJ ✓	0.028	0.10
Endrin ketone	0.10	U	0.016	0.10
gamma-BHC (Lindane)	0.050	U	0.0052	0.050
Heptachlor	0.050	U	0.0078	0.050
Heptachlor epoxide	0.050	U	0.0057	0.050
Methoxychlor	0.50	U	0.041	0.50
Toxaphene	2.5	U	0.21	2.5
alpha-Chlordane	0.050	U	0.0055	0.050
gamma-Chlordane	0.050	U	0.0061	0.050

Surrogate	%Rec	Acceptance Limits
DCB Decachlorobiphenyl	67	29 - 156
Tetrachloro-m-xylene	91	53 - 144

Method: 8081A
Preparation: 3510C
Dilution: 1.0
Date Analyzed: 12/15/2007 2204
Date Prepared: 12/10/2007 2241

Analysis Batch: 220-11916
Prep Batch: 220-11710

Instrument ID: HP 5890 with dual ECD
Lab File ID: C7518023.D
Initial Weight/Volume: 1000 mL
Final Weight/Volume: 10 mL
Injection Volume: 1 uL
Column ID: SECONDARY

Surrogate	%Rec	Acceptance Limits
DCB Decachlorobiphenyl	60	29 - 156
Tetrachloro-m-xylene	92	53 - 144

DB 1/18/08

Jam 1/1/08

Duplicate of EHS-GW-02

Analytical Data

Client: GEI Consultants, Inc.

Job Number: 220-3539-1
Sdg Number: 220-3539

Client Sample ID: **EHS-GW-XX-120307**

Lab Sample ID: 220-3539-4
Client Matrix: Water

Date Sampled: 12/03/2007 1700
Date Received: 12/04/2007 1600

8082 Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Method: 8082
Preparation: 3510C
Dilution: 1.0
Date Analyzed: 12/14/2007 2034
Date Prepared: 12/10/2007 2241

Analysis Batch: 220-11915
Prep Batch: 220-11710

Instrument ID: HP 5890 with dual ECD
Lab File ID: D4666082.d
Initial Weight/Volume: 1000 mL
Final Weight/Volume: 10 mL
Injection Volume: 1 uL
Column ID: PRIMARY

Analyte	Result (ug/L)	Qualifier	MDL	RL
PCB-1016	0.50	U	0.072	0.50
PCB-1221	1.0	U	0.23	1.0
PCB-1232	0.50	U	0.11	0.50
PCB-1242	0.50	U	0.11	0.50
PCB-1248	0.50	U	0.15	0.50
PCB-1254	0.50	U	0.037	0.50
PCB-1260	0.50	U	0.064	0.50

Surrogate	%Rec	Acceptance Limits
Tetrachloro-m-xylene	81	53 - 144
DCB Decachlorobiphenyl	59	29 - 156

DB 1/8/08

Jam 1/11/08

Duplicate of EHS-GW-02

TestAmerica Connecticut

Client Sample ID: EHS-GW-XX-120307

GC Semivolatiles

Lot-Sample #...: A7L060295-004	Work Order #...: KDLMX1AA		Matrix.....: WG
Date Sampled...: 12/03/07 17:00	Date Received..: 12/06/07		
Prep Date.....: 12/10/07	Analysis Date..: 12/11/07		
Prep Batch #...: 7344015			
Dilution Factor: 1	Initial Wgt/Vol: 500 mL		Final Wgt/Vol..: 100 mL
	Method.....: SW846 8151A		

PARAMETER	RESULT	REPORTING LIMIT	UNITS	MDL
2,4,5-T	ND	1.0	ug/L	0.17
2,4-D	ND	4.0	ug/L	1.5
2,4,5-TP	ND	1.0	ug/L	0.16

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
2,4-Dichlorophenylacetic acid	76	(32 - 112)

EHR 1/18/08. DB 1/18/08

Client: GEI Consultants, Inc.

Job Number: 220-3406-1
Sdg Number: 220-3406

Client Sample ID: EHS-GW-03

Lab Sample ID: 220-3406-1
Client Matrix: Water

Date Sampled: 11/16/2007 1100
Date Received: 11/16/2007 2100

8260B Volatile Organic Compounds by GC/MS

Method: 8260B
Preparation: 5030B
Dilution: 1.0
Date Analyzed: 11/19/2007 1627
Date Prepared: 11/19/2007 1627

Analysis Batch: 220-11235

Instrument ID: HP 5890/5971 GC/MS
Lab File ID: L2380.D
Initial Weight/Volume: 5 mL
Final Weight/Volume: 5 mL

Analyte	Result (ug/L)	Qualifier	MDL	RL
Acetone	10	U	1.6	10
Benzene	5.0	U	0.23	5.0
Bromodichloromethane	5.0	U	0.24	5.0
Bromoform	5.0	U	1.2	5.0
Bromomethane	5.0	U	1.0	5.0
Methyl Ethyl Ketone	10	U	1.1	10
Carbon disulfide	5.0	U	0.14	5.0
Carbon tetrachloride	5.0	U	0.29	5.0
Chlorobenzene	5.0	U	0.15	5.0
Chloroethane	5.0	U	0.48	5.0
Chloroform	5.0	U	0.27	5.0
Chloromethane	5.0	U	0.24	5.0
Dibromochloromethane	5.0	U	0.21	5.0
1,1-Dichloroethane	5.0	U	0.23	5.0
1,2-Dichloroethane	5.0	U	0.25	5.0
1,1-Dichloroethene	5.0	U	0.25	5.0
1,2-Dichloropropane	5.0	U	0.32	5.0
cis-1,3-Dichloropropene	5.0	U	0.28	5.0
trans-1,3-Dichloropropene	5.0	U	0.28	5.0
Ethylbenzene	5.0	U	0.28	5.0
2-Hexanone	10	U	0.37	10
Methylene Chloride	5.0	U	0.26	5.0
methyl isobutyl ketone	10	U	0.38	10
Styrene	5.0	U	0.70	5.0
1,1,2,2-Tetrachloroethane	5.0	U	0.23	5.0
Tetrachloroethene	5.0	U	0.30	5.0
Toluene	5.0	U	0.090	5.0
1,1,1-Trichloroethane	5.0	U	0.38	5.0
1,1,2-Trichloroethane	5.0	U	0.33	5.0
Trichloroethene	5.0	U	0.26	5.0
Vinyl chloride	5.0	U	0.30	5.0
Xylenes, Total	5.0	U	0.46	5.0
cis-1,2-Dichloroethene	5.0	U	0.33	5.0
trans-1,2-Dichloroethene	5.0	U	0.22	5.0

Surrogate	%Rec	Acceptance Limits
1,2-Dichloroethane-d4 (Surr)	109	53 - 125
4-Bromofluorobenzene	104	73 - 127
Dibromofluoromethane	104	54 - 137
Toluene-d8 (Surr)	83	63 - 121

EHM 1/7/08

DB 1/18/08

FORM I
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Connecticut | Job No.: 220-3406-1

SDG No.: 220-3406

Client Sample ID: EHS-GW-03 | Lab Sample ID: 220-3406-1

Matrix: Water | Lab File ID: C4351.D

Analysis Method: 8270C | Date Received: 11/16/2007 21:00

Sample wt/vol: 1000 (mL) | Date Extracted: 01/08/2008 16:00

Level: (low/med) Low | Date Analyzed: 01/09/2008 17:43

Con. Extract Vol.: 1 (mL) | Dilution Factor: 1

Injection Volume: 1 (uL) | Extract. Method: 3510C

GPC Cleanup:(Y/N) N | % Moisture:

Analy. Batch No.: 12566 | Units: ug/L

CAS No.	Compound Name	Result	Q	RL	MDL
83-32-9	Acenaphthene	~~10~~	~~U H~~	R 10	0.35
208-96-8	Acenaphthylene	~~10~~	~~U H~~	R 10	0.35
120-12-7	Anthracene	~~10~~	~~U H~~	R 10	0.32
56-55-3	Benzo[a]anthracene	~~10~~	~~U H~~	R 10	0.44
50-32-8	Benzo[a]pyrene	~~10~~	~~U H~~	R 10	0.32
205-99-2	Benzo[b]fluoranthene	~~10~~	~~U H~~	R 10	0.45
191-24-2	Benzo[g,h,i]perylene	~~10~~	~~U H~~	R 10	0.40
207-08-9	Benzo[k]fluoranthene	~~10~~	~~U H~~	R 10	0.29
111-91-1	Bis(2-chloroethoxy)methane	~~10~~	~~U H~~	R 10	0.51
111-44-4	Bis(2-chloroethyl)ether	~~10~~	~~U H~~	R 10	2.0
117-81-7	Bis(2-ethylhexyl) phthalate	~~10~~	~~U H~~	R 10	1.7
85-68-7	Butyl benzyl phthalate	~~10~~	~~U H~~	R 10	0.43
86-74-8	Carbazole	~~10~~	~~U H~~	R 10	0.61
218-01-9	Chrysene	~~10~~	~~U H~~	R 10	0.40
84-74-2	Di-n-butyl phthalate	~~10~~	~~U H~~	R 10	1.9
117-84-0	Di-n-octyl phthalate	~~10~~	~~U H~~	R 10	0.35
101-55-3	4-Bromophenyl phenyl ether	~~10~~	~~U H~~	R 10	0.26
106-47-8	4-Chloroaniline	~~10~~	~~U H~~	R 10	0.31
91-58-7	2-Chloronaphthalene	~~10~~	~~U H~~	R 10	0.46
7005-72-3	4-Chlorophenyl phenyl ether	~~10~~	~~U H~~	R 10	0.48
53-70-3	Dibenz(a,h)anthracene	~~10~~	~~U H~~	R 10	0.39
132-64-9	Dibenzofuran	~~10~~	~~U H~~	R 10	0.46
84-66-2	Diethyl phthalate	~~10~~	~~U H~~	R 10	0.37
131-11-3	Dimethyl phthalate	~~10~~	~~U H~~	R 10	0.29
95-50-1	1,2-Dichlorobenzene	~~10~~	~~U H~~	R 10	0.43
541-73-1	1,3-Dichlorobenzene	~~10~~	~~U H~~	R 10	0.49
106-46-7	1,4-Dichlorobenzene	~~10~~	~~U H~~	R 10	0.38
91-94-1	3,3'-Dichlorobenzidine	~~10~~	~~U H~~	R 10	0.60
121-14-2	2,4-Dinitrotoluene	~~10~~	~~U H~~	R 10	0.48
606-20-2	2,6-Dinitrotoluene	~~10~~	~~U H~~	R 10	0.49
206-44-0	Fluoranthene	~~10~~	~~U H~~	R 10	0.51
86-73-7	Fluorene	~~10~~	~~U H~~	R 10	0.35
118-74-1	Hexachlorobenzene	~~10~~	~~U H~~	R 10	0.35
87-68-3	Hexachlorobutadiene	~~10~~	~~U H~~	R 10	0.74
77-47-4	Hexachlorocyclopentadiene	~~10~~	~~U H~~	R 10	1.3

EMM 1/15/08 DB 1/18/08 ✓

FORM I
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Connecticut | Job No.: 220-3406-1

SDG No.: 220-3406

Client Sample ID: EHS-GW-03 | Lab Sample ID: 220-3406-1

Matrix: Water | Lab File ID: C4351.D

Analysis Method: 8270C | Date Received: 11/16/2007 21:00

Sample wt/vol: 1000 (mL) | Date Extracted: 01/08/2008 16:00

Level: (low/med) Low | Date Analyzed: 01/09/2008 17:43

Con. Extract Vol.: 1 (mL) | Dilution Factor: 1

Injection Volume: 1 (uL) | Extract. Method: 3510C

GPC Cleanup:(Y/N) N | % Moisture:

Analy. Batch No.: 12566 | Units: ug/L

CAS No.	Compound Name	Result	Q	RL	MDL
67-72-1	Hexachloroethane	~~10~~	~~U H~~	R 10	0.64
193-39-5	Indeno[1,2,3-cd]pyrene	~~10~~	~~U H~~	R 10	0.51
78-59-1	Isophorone	~~10~~	~~U H~~	R 10	0.54
91-57-6	2-Methylnaphthalene	~~10~~	~~U H~~	R 10	0.49
91-20-3	Naphthalene	~~10~~	~~U H~~	R 10	0.47
88-74-4	2-Nitroaniline	~~50~~	~~U H~~	R 50	0.45
99-09-2	3-Nitroaniline	~~50~~	~~U H~~	R 50	0.41
98-95-3	Nitrobenzene	~~10~~	~~U H~~	R 10	0.50
621-64-7	N-Nitrosodi-n-propylamine	~~10~~	~~U H~~	R 10	0.59
86-30-6	N-Nitrosodiphenylamine	~~10~~	~~U H~~	R 10	0.41
85-01-8	Phenanthrene	~~10~~	~~U H~~	R 10	0.28
129-00-0	Pyrene	~~10~~	~~U H~~	R 10	0.40
120-82-1	1,2,4-Trichlorobenzene	~~10~~	~~U H~~	R 10	0.47
59-50-7	4-Chloro-3-methylphenol	~~10~~	~~U H~~	R 10	0.43
95-57-8	2-Chlorophenol	~~10~~	~~U H~~	R 10	0.46
95-48-7	2-Methylphenol	~~10~~	~~U H~~	R 10	0.50
106-44-5	4-Methylphenol	~~10~~	~~U H~~	R 10	0.39
120-83-2	2,4-Dichlorophenol	~~10~~	~~U H~~	R 10	0.30
105-67-9	2,4-Dimethylphenol	~~10~~	~~U H~~	R 10	0.63
51-28-5	2,4-Dinitrophenol	~~50~~	~~U H~~	R 50	1.7
534-52-1	4,6-Dinitro-2-methylphenol	~~50~~	~~U H~~	R 50	3.3
88-75-5	2-Nitrophenol	~~10~~	~~U H~~	R 10	0.50
100-02-7	4-Nitrophenol	~~50~~	~~U H~~	R 50	1.3
87-86-5	Pentachlorophenol	~~50~~	~~U H~~	R 50	4.1
108-95-2	Phenol	~~10~~	~~U H~~	R 10	0.85
95-95-4	2,4,5-Trichlorophenol	~~50~~	~~U H~~	R 50	0.33
88-06-2	2,4,6-Trichlorophenol	~~10~~	~~U H~~	R 10	0.42
100-51-6	Benzyl alcohol	~~10~~	~~U H~~	R 10	0.84
100-01-6	4-Nitroaniline	~~20~~	~~U H~~	R 20	0.50
108-60-1	2,2'-oxybis[1-chloropropane]	~~10~~	~~U H~~	R 10	0.54

EMR 1/15/08 DB ✓ 1/18/08

Client: GEI Consultants, Inc.

Job Number: 220-3406-1
Sdg Number: 220-3406

Client Sample ID: EHS-GW-03

Lab Sample ID: 220-3406-1
Client Matrix: Water

Date Sampled: 11/16/2007 1100
Date Received: 11/16/2007 2100

6010B Inductively Coupled Plasma - Atomic Emission Spectrometry

Method: 6010B
Preparation: 3010A
Dilution: 1.0
Date Analyzed: 11/26/2007 1553
Date Prepared: 11/20/2007 1120

Analysis Batch: 220-11365
Prep Batch: 220-11242

Instrument ID: TJA Trace ICAP
Lab File ID: W112607
Initial Weight/Volume: 50 mL
Final Weight/Volume: 50 mL

Analyte	Result (ug/L)	Qualifier	MDL	RL
Silver	5.0	U	1.3	5.0
Aluminum	89	J	84	500
Arsenic	25	U	5.4	25
Barium	48	J	2.3	5.0
Beryllium	5.0	U	0.60	5.0
Calcium	11100		130	300
Cadmium	10	U	1.1	10
Cobalt	2.5	J	2.1	10
Chromium	3.7	J	1.9	10
Copper	10	U	3.9	10
Iron	560		51	200
Potassium	1800	J	130	400
Magnesium	2300	J	55	100
Manganese	790		5.2	15
Sodium	32700		350	400
Nickel	6.1	J	1.9	10
Lead	10	U	4.9	10
Antimony	50	U	6.0	50
Selenium	30	U	9.8	30
Thallium	40	U	8.1	40
Vanadium	5.0	U	1.0	5.0
Zinc	22	J	12	50

7470A Mercury in Liquid Waste (Manual Cold Vapor Technique)

Method: 7470A
Preparation: 7470A
Dilution: 1.0
Date Analyzed: 11/30/2007 0936
Date Prepared: 11/29/2007 1732

Analysis Batch: 220-11490
Prep Batch: 220-11475

Instrument ID: Perkin Elmer FIMS
Lab File ID: N/A
Initial Weight/Volume: 25 mL
Final Weight/Volume: 50 mL

Analyte	Result (ug/L)	Qualifier	MDL	RL
Mercury	~~0.20~~ 0.40	U	~~0.10~~ 0.20	~~0.20~~ 0.40

1/3/08

DB 1/18/08

Client: GEI Consultants, Inc.

Job Number: 220-3406-1
Sdg Number: 220-3406

Client Sample ID: **EHS-GW-03**

Lab Sample ID: 220-3406-1
Client Matrix: Water

Date Sampled: 11/16/2007 1100
Date Received: 11/16/2007 2100

8081A Organochlorine Pesticides by Gas Chromatography

Method: 8081A
Preparation: 3510C
Dilution: 1.0
Date Analyzed: 11/29/2007 1950
Date Prepared: 11/21/2007 1630

Analysis Batch: 220-11459
Prep Batch: 220-11303

Instrument ID: HP 5890 with dual ECD
Lab File ID: D7505073.D
Initial Weight/Volume: 1000 mL
Final Weight/Volume: 10 mL
Injection Volume: 1 uL
Column ID: PRIMARY

Analyte	Result (ug/L)	Qualifier	MDL	RL
4,4'-DDD	0.15	U	0.014	0.15
4,4'-DDE	0.10	U	0.0088	0.10
4,4'-DDT	0.10	U	0.010	0.10
Aldrin	0.050	U	0.0058	0.050
alpha-BHC	0.050	U	0.011	0.050
beta-BHC	0.050	U	0.013	0.050
delta-BHC	0.050	U	0.0022	0.050
Dieldrin	0.10	U	0.0057	0.10
Endosulfan I	0.050	U	0.0035	0.050
Endosulfan II	0.10	U	0.0035	0.10
Endosulfan sulfate	0.10	U	0.014	0.10
Endrin	0.10	U	0.025	0.10
Endrin aldehyde	0.10	U J	0.028	0.10
Endrin ketone	0.10	U J	0.016	0.10
gamma-BHC (Lindane)	0.050	U	0.0052	0.050
Heptachlor	0.050	U	0.0078	0.050
Heptachlor epoxide	0.050	U	0.0057	0.050
Methoxychlor	0.50	U J	0.041	0.50
Toxaphene	2.5	U	0.21	2.5
alpha-Chlordane	0.050	U	0.0055	0.050
gamma-Chlordane	0.050	U	0.0061	0.050

Surrogate	%Rec	Acceptance Limits
DCB Decachlorobiphenyl	77	29 - 156
Tetrachloro-m-xylene	83	53 - 144

Method: 8081A
Preparation: 3510C
Dilution: 1.0
Date Analyzed: 11/29/2007 1950
Date Prepared: 11/21/2007 1630

Analysis Batch: 220-11459
Prep Batch: 220-11303

Instrument ID: HP 5890 with dual ECD
Lab File ID: C7505073.D
Initial Weight/Volume: 1000 mL
Final Weight/Volume: 10 mL
Injection Volume: 1 uL
Column ID: SECONDARY

Surrogate	%Rec	Acceptance Limits
DCB Decachlorobiphenyl	76	29 - 156
Tetrachloro-m-xylene	82	53 - 144

DB 1/18/08

Nam 12/20/07

Client: GEI Consultants, Inc.

Job Number: 220-3406-1
Sdg Number: 220-3406

Client Sample ID: **EHS-GW-03**

Lab Sample ID: 220-3406-1
Client Matrix: Water

Date Sampled: 11/16/2007 1100
Date Received: 11/16/2007 2100

8082 Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Method: 8082
Preparation: 3510C
Dilution: 1.0
Date Analyzed: 11/28/2007 0310
Date Prepared: 11/21/2007 1630

Analysis Batch: 220-11444
Prep Batch: 220-11303

Instrument ID: HP 5890 with dual ECD
Lab File ID: D4663058.d
Initial Weight/Volume: 1000 mL
Final Weight/Volume: 10 mL
Injection Volume: 1 uL
Column ID: PRIMARY

Analyte	Result (ug/L)	Qualifier	MDL	RL
PCB-1016	0.50	U	0.072	0.50
PCB-1221	1.0	U	0.23	1.0
PCB-1232	0.50	U	0.11	0.50
PCB-1242	0.50	U	0.11	0.50
PCB-1248	0.50	U	0.15	0.50
PCB-1254	0.50	U	0.037	0.50
PCB-1260	0.50	U	0.064	0.50

Surrogate	%Rec	Acceptance Limits
Tetrachloro-m-xylene	68	53 - 144
DCB Decachlorobiphenyl	71	29 - 156

DB 1/18/08

Jam 12/20/07

TestAmerica Connecticut

Client Sample ID: EHS-GW-03

GC Semivolatiles

Lot-Sample #...: A7K200313-001	Work Order #...: KCNGP1AA	Matrix.....: WG	
Date Sampled...: 11/16/07 11:00	Date Received..: 11/20/07		
Prep Date.....: 11/21/07	Analysis Date..: 11/26/07		
Prep Batch #...: 7325042			
Dilution Factor: 1	Initial Wgt/Vol: 500 mL	Final Wgt/Vol..: 100 mL	
	Method.....: SW846 8151A		

PARAMETER	RESULT	REPORTING LIMIT	UNITS	MDL
2,4,5-T	ND	1.0	ug/L	0.17
2,4-D	ND	4.0	ug/L	1.5
2,4,5-TP	ND	1.0	ug/L	0.16

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
2,4-Dichlorophenylacetic acid	57	(32 - 112)

EMM 1/8/08

DB 1/18/08

Client: GEI Consultants, Inc.

Job Number: 220-3539-1
Sdg Number: 220-3539

Client Sample ID: EHS-GW-04

Lab Sample ID: 220-3539-2
Client Matrix: Water

Date Sampled: 12/03/2007 1410
Date Received: 12/04/2007 1600

8260B Volatile Organic Compounds by GC/MS

Method: 8260B
Preparation: 5030B
Dilution: 1.0
Date Analyzed: 12/06/2007 1611
Date Prepared: 12/06/2007 1611

Analysis Batch: 220-11665

Instrument ID: HP 6890/5973 GC/MS
Lab File ID: W3042.D
Initial Weight/Volume: 5 mL
Final Weight/Volume: 5 mL

Analyte	Result (ug/L)	Qualifier	MDL	RL
Acetone	10	U	1.6	10
Benzene	5.0	U	0.23	5.0
Bromodichloromethane	5.0	U	0.24	5.0
Bromoform	5.0	U	1.2	5.0
Bromomethane	5.0	U	1.0	5.0
Methyl Ethyl Ketone	10	U	1.1	10
Carbon disulfide	5.0	U	0.14	5.0
Carbon tetrachloride	5.0	U	0.29	5.0
Chlorobenzene	5.0	U	0.15	5.0
Chloroethane	5.0	U	0.48	5.0
Chloroform	5.0	U	0.27	5.0
Chloromethane	5.0	U	0.24	5.0
Dibromochloromethane	5.0	U	0.21	5.0
1,1-Dichloroethane	5.0	U	0.23	5.0
1,2-Dichloroethane	5.0	U	0.25	5.0
1,1-Dichloroethene	5.0	U	0.25	5.0
1,2-Dichloropropane	5.0	U	0.32	5.0
cis-1,3-Dichloropropene	5.0	U	0.28	5.0
trans-1,3-Dichloropropene	5.0	U	0.28	5.0
Ethylbenzene	5.0	U	0.28	5.0
2-Hexanone	10	U	0.37	10
Methylene Chloride	5.0	U	0.26	5.0
methyl isobutyl ketone	10	U	0.38	10
Styrene	5.0	U	0.70	5.0
1,1,2,2-Tetrachloroethane	5.0	U	0.23	5.0
Tetrachloroethene	0.30	J	0.30	5.0
Toluene	5.0	U	0.090	5.0
1,1,1-Trichloroethane	5.0	U	0.38	5.0
1,1,2-Trichloroethane	5.0	U	0.33	5.0
Trichloroethene	5.0	U	0.26	5.0
Vinyl chloride	5.0	U	0.30	5.0
Xylenes, Total	5.0	U	0.46	5.0
cis-1,2-Dichloroethene	5.0	U	0.33	5.0
trans-1,2-Dichloroethene	5.0	U	0.22	5.0

Surrogate	%Rec	Acceptance Limits
1,2-Dichloroethane-d4 (Surr)	111	53 - 125
4-Bromofluorobenzene	80	73 - 127
Dibromofluoromethane	102	54 - 137
Toluene-d8 (Surr)	81	63 - 121

EMM 1/7/08 DB 1/18/08

Client: GEI Consultants, Inc.

Job Number: 220-3539-1
Sdg Number: 220-3539

Client Sample ID: EHS-GW-04

Lab Sample ID: 220-3539-2
Client Matrix: Water

Date Sampled: 12/03/2007 1410
Date Received: 12/04/2007 1600

8270C Semivolatile Compounds by Gas Chromatography/Mass Spectrometry (GC/MS)

Method: 8270C
Preparation: 3510C
Dilution: 1.0
Date Analyzed: 12/12/2007 2215
Date Prepared: 12/10/2007 1530

Analysis Batch: 220-11829
Prep Batch: 220-11706

Instrument ID: HP 6890/5975
Lab File ID: C4074.D
Initial Weight/Volume: 1000 mL
Final Weight/Volume: 1.0 mL
Injection Volume: 1 uL

Analyte	Result (ug/L)	Qualifier	MDL	RL
Acenaphthene	10	U	0.35	10
Acenaphthylene	10	U	0.35	10
Anthracene	10	U	0.32	10
Benzo[a]anthracene	10	U	0.44	10
Benzo[a]pyrene	10	U	0.32	10
Benzo[b]fluoranthene	10	U	0.45	10
Benzo[g,h,i]perylene	10	U	0.40	10
Benzo[k]fluoranthene	10	U	0.29	10
Bis(2-chloroethoxy)methane	10	U	0.51	10
Bis(2-chloroethyl)ether	10	U	2.0	10
Bis(2-ethylhexyl) phthalate	10	U	1.7	10
Butyl benzyl phthalate	10	U	0.43	10
Carbazole	10	U	0.61	10
Chrysene	10	U	0.40	10
Di-n-butyl phthalate	10	U	1.9	10
Di-n-octyl phthalate	10	U	0.35	10
4-Bromophenyl phenyl ether	10	U	0.26	10
4-Chloroaniline	10	U	0.31	10
2-Chloronaphthalene	10	U	0.46	10
4-Chlorophenyl phenyl ether	10	U	0.48	10
Dibenz(a,h)anthracene	10	U	0.39	10
Dibenzofuran	10	U	0.46	10
Diethyl phthalate	10	U	0.37	10
Dimethyl phthalate	10	U	0.29	10
1,2-Dichlorobenzene	10	U	0.43	10
1,3-Dichlorobenzene	10	U	0.49	10
1,4-Dichlorobenzene	10	U	0.38	10
3,3'-Dichlorobenzidine	10	U	0.60	10
2,4-Dinitrotoluene	10	U	0.48	10
2,6-Dinitrotoluene	10	U	0.49	10
Fluoranthene	10	U	0.51	10
Fluorene	10	U	0.35	10
Hexachlorobenzene	10	U	0.35	10
Hexachlorobutadiene	10	U	0.74	10
Hexachlorocyclopentadiene	10	U	1.3	10
Hexachloroethane	10	U	0.64	10
Indeno[1,2,3-cd]pyrene	10	U	0.51	10
Isophorone	10	U	0.54	10
2-Methylnaphthalene	10	U	0.49	10
Naphthalene	10	U	0.47	10
2-Nitroaniline	50	U	0.45	50
3-Nitroaniline	50	U	0.41	50
Nitrobenzene	10	U	0.50	10
N-Nitrosodi-n-propylamine	10	U	0.59	10

DB 1/18/08

EMM 1/8/08

Client: GEI Consultants, Inc.

Job Number: 220-3539-1
Sdg Number: 220-3539

Client Sample ID: EHS-GW-04

Lab Sample ID: 220-3539-2
Client Matrix: Water

Date Sampled: 12/03/2007 1410
Date Received: 12/04/2007 1600

8270C Semivolatile Compounds by Gas Chromatography/Mass Spectrometry (GC/MS)

Method: 8270C
Preparation: 3510C
Dilution: 1.0
Date Analyzed: 12/12/2007 2215
Date Prepared: 12/10/2007 1530

Analysis Batch: 220-11829
Prep Batch: 220-11706

Instrument ID: HP 6890/5975
Lab File ID: C4074.D
Initial Weight/Volume: 1000 mL
Final Weight/Volume: 1.0 mL
Injection Volume: 1 uL

Analyte	Result (ug/L)	Qualifier	MDL	RL
N-Nitrosodiphenylamine	10	U	0.41	10
Phenanthrene	10	U	0.28	10
Pyrene	10	U	0.40	10
1,2,4-Trichlorobenzene	10	U	0.47	10
4-Chloro-3-methylphenol	10	U	0.43	10
2-Chlorophenol	10	U	0.46	10
2-Methylphenol	10	U	0.50	10
4-Methylphenol	10	U	0.39	10
2,4-Dichlorophenol	10	U	0.30	10
2,4-Dimethylphenol	10	U	0.63	10
2,4-Dinitrophenol	50	U	1.7	50
4,6-Dinitro-2-methylphenol	50	U	3.3	50
2-Nitrophenol	10	U	0.50	10
4-Nitrophenol	50	U	1.3	50
Pentachlorophenol	50	U	4.1	50
Phenol	10	U	0.85	10
2,4,5-Trichlorophenol	50	U	0.33	50
2,4,6-Trichlorophenol	10	U	0.42	10
Benzyl alcohol	10	U	0.84	10
4-Nitroaniline	20	U	0.50	20
2,2'-oxybis[1-chloropropane]	10	U	0.54	10

Surrogate	%Rec	Acceptance Limits
2-Fluorobiphenyl	93	43 - 116
2-Fluorophenol	54	21 - 97
2,4,6-Tribromophenol	99	29 - 126
Nitrobenzene-d5	89	38 - 113
Phenol-d5	35	18 - 97
Terphenyl-d14	106	10 - 119

EMM 1/8/08

DB 1/18/08

Client: GEI Consultants, Inc.

Job Number: 220-3539-1
Sdg Number: 220-3539

Client Sample ID: EHS-GW-04

Lab Sample ID: 220-3539-2
Client Matrix: Water

Date Sampled: 12/03/2007 1410
Date Received: 12/04/2007 1600

6010B Inductively Coupled Plasma - Atomic Emission Spectrometry

Method: 6010B
Preparation: 3010A
Dilution: 1.0
Date Analyzed: 12/10/2007 1647
Date Prepared: 12/06/2007 1004

Analysis Batch: 220-11721
Prep Batch: 220-11621

Instrument ID: TJA Trace ICAP
Lab File ID: W121007
Initial Weight/Volume: 50 mL
Final Weight/Volume: 50 mL

Analyte	Result (ug/L)	Qualifier	MDL	RL
Silver	5.0	U	1.3	5.0
Aluminum	93	J ✓	84	500
Arsenic	25	U	5.4	25
Barium	60 J ✓		2.3	5.0
Beryllium	5.0	U	0.60	5.0
Calcium	21300		130	300
Cadmium	10	U ✓	1.1	10
Cobalt	3.6	J ✓	2.1	10
Chromium	6.9	J ✓	1.9	10
Copper	10	U	3.9	10
Iron	350		51	200
Potassium	2600 J ✓		130	400
Magnesium	3100 J ✓		55	100
Manganese	990		5.2	15
Sodium	31000		350	400
Nickel	9.8	J ✓	1.9	10
Lead	10	U	4.9	10
Antimony	50	U	6.0	50
Selenium	30	U	9.8	30
Thallium	40	U	8.1	40
Vanadium	5.0	U	1.0	5.0
Zinc	15	J ✓	12	50

7470A Mercury in Liquid Waste (Manual Cold Vapor Technique)

Method: 7470A
Preparation: 7470A
Dilution: 1.0
Date Analyzed: 12/15/2007 1838
Date Prepared: 12/15/2007 1554

Analysis Batch: 220-11902
Prep Batch: 220-11900

Instrument ID: Perkin Elmer FIMS
Lab File ID: N/A
Initial Weight/Volume: 25 mL
Final Weight/Volume: 50 mL

Analyte	Result (ug/L)	Qualifier	MDL	RL
Mercury	~~0.20~~ 0.46 ✓	U	~~0.10~~ 0.20 ✓	~~0.20~~ 0.46 ✓

1/3/08

1/18/08

Client: GEI Consultants, Inc.

Job Number: 220-3539-1
Sdg Number: 220-3539

Client Sample ID: **EHS-GW-04**

Lab Sample ID: 220-3539-2
Client Matrix: Water

Date Sampled: 12/03/2007 1410
Date Received: 12/04/2007 1600

8081A Organochlorine Pesticides by Gas Chromatography

Method: 8081A
Preparation: 3510C
Dilution: 1.0
Date Analyzed: 12/15/2007 2122
Date Prepared: 12/10/2007 2241

Analysis Batch: 220-11916
Prep Batch: 220-11710

Instrument ID: HP 5890 with dual ECD
Lab File ID: D7518021.D
Initial Weight/Volume: 1000 mL
Final Weight/Volume: 10 mL
Injection Volume: 1 uL
Column ID: PRIMARY

Analyte	Result (ug/L)	Qualifier	MDL	RL
4,4'-DDD	0.15	U	0.014	0.15
4,4'-DDE	0.10	U	0.0088	0.10
4,4'-DDT	0.10	UJ ✓	0.010	0.10
Aldrin	0.050	U	0.0058	0.050
alpha-BHC	0.050	U	0.011	0.050
beta-BHC	0.050	U	0.013	0.050
delta-BHC	0.050	U	0.0022	0.050
Dieldrin	0.10	U	0.0057	0.10
Endosulfan I	0.050	U	0.0035	0.050
Endosulfan II	0.10	U	0.0035	0.10
Endosulfan sulfate	0.10	U	0.014	0.10
Endrin	0.10	U	0.025	0.10
Endrin aldehyde	0.10	UJ ✓	0.028	0.10
Endrin ketone	0.10	U	0.016	0.10
gamma-BHC (Lindane)	0.050	U	0.0052	0.050
Heptachlor	0.050	U	0.0078	0.050
Heptachlor epoxide	0.050	U	0.0057	0.050
Methoxychlor	0.50	U	0.041	0.50
Toxaphene	2.5	U	0.21	2.5
alpha-Chlordane	0.050	U	0.0055	0.050
gamma-Chlordane	0.050	U	0.0061	0.050

Surrogate	%Rec	Acceptance Limits
DCB Decachlorobiphenyl	71	29 - 156
Tetrachloro-m-xylene	82	53 - 144

Method: 8081A
Preparation: 3510C
Dilution: 1.0
Date Analyzed: 12/15/2007 2122
Date Prepared: 12/10/2007 2241

Analysis Batch: 220-11916
Prep Batch: 220-11710

Instrument ID: HP 5890 with dual ECD
Lab File ID: C7518021.D
Initial Weight/Volume: 1000 mL
Final Weight/Volume: 10 mL
Injection Volume: 1 uL
Column ID: SECONDARY

Surrogate	%Rec	Acceptance Limits
DCB Decachlorobiphenyl	65	29 - 156
Tetrachloro-m-xylene	81	53 - 144

DB 1/18/08 Jam 1/11/08

Client: GEI Consultants, Inc.

Job Number: 220-3539-1
Sdg Number: 220-3539

Client Sample ID: **EHS-GW-04**

Lab Sample ID: 220-3539-2
Client Matrix: Water

Date Sampled: 12/03/2007 1410
Date Received: 12/04/2007 1600

8082 Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Method: 8082
Preparation: 3510C
Dilution: 1.0
Date Analyzed: 12/14/2007 1911
Date Prepared: 12/10/2007 2241

Analysis Batch: 220-11915
Prep Batch: 220-11710

Instrument ID: HP 5890 with dual ECD
Lab File ID: D4666077.d
Initial Weight/Volume: 1000 mL
Final Weight/Volume: 10 mL
Injection Volume: 1 uL
Column ID: PRIMARY

Analyte	Result (ug/L)	Qualifier	MDL	RL
PCB-1016	0.50	U	0.072	0.50
PCB-1221	1.0	U	0.23	1.0
PCB-1232	0.50	U	0.11	0.50
PCB-1242	0.50	U	0.11	0.50
PCB-1248	0.50	U	0.15	0.50
PCB-1254	0.50	U	0.037	0.50
PCB-1260	0.50	U	0.064	0.50

Surrogate	%Rec	Acceptance Limits
Tetrachloro-m-xylene	80	53 - 144
DCB Decachlorobiphenyl	60	29 - 156

DB 1/18/08

Dam 1/18/08

TestAmerica Connecticut

Client Sample ID: EHS-GW-04

GC Semivolatiles

Lot-Sample #...: A7L060295-002	**Work Order #...:** KDLMR1AA	**Matrix.....:** WG	
Date Sampled...: 12/03/07 14:10	**Date Received..:** 12/06/07		
Prep Date.....: 12/10/07	**Analysis Date..:** 12/11/07		
Prep Batch #...: 7344015			
Dilution Factor: 1	**Initial Wgt/Vol:** 500 mL	**Final Wgt/Vol..:** 100 mL	
	Method.....: SW846 8151A		

PARAMETER	RESULT	REPORTING LIMIT	UNITS	MDL
2,4,5-T	ND	1.0	ug/L	0.17
2,4-D	ND	4.0	ug/L	1.5
2,4,5-TP	ND	1.0	ug/L	0.16

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
2,4-Dichlorophenylacetic acid	72	(32 - 112)

EM 1/18/08 DB 1/18/08

Client: GEI Consultants, Inc.

Job Number: 220-3539-1
Sdg Number: 220-3539

Client Sample ID: EHS-GW-05

Lab Sample ID: 220-3539-3
Client Matrix: Water

Date Sampled: 12/03/2007 1535
Date Received: 12/04/2007 1600

8260B Volatile Organic Compounds by GC/MS

Method: 8260B
Preparation: 5030B
Dilution: 1.0
Date Analyzed: 12/06/2007 1638
Date Prepared: 12/06/2007 1638

Analysis Batch: 220-11665

Instrument ID: HP 6890/5973 GC/MS
Lab File ID: W3043.D
Initial Weight/Volume: 5 mL
Final Weight/Volume: 5 mL

Analyte	Result (ug/L)	Qualifier	MDL	RL
Acetone	10	U	1.6	10
Benzene	5.0	U	0.23	5.0
Bromodichloromethane	5.0	U	0.24	5.0
Bromoform	5.0	U	1.2	5.0
Bromomethane	5.0	U	1.0	5.0
Methyl Ethyl Ketone	10	U	1.1	10
Carbon disulfide	5.0	U	0.14	5.0
Carbon tetrachloride	5.0	U	0.29	5.0
Chlorobenzene	5.0	U	0.15	5.0
Chloroethane	5.0	U	0.48	5.0
Chloroform	5.0	U	0.27	5.0
Chloromethane	5.0	U	0.24	5.0
Dibromochloromethane	5.0	U	0.21	5.0
1,1-Dichloroethane	5.0	U	0.23	5.0
1,2-Dichloroethane	5.0	U	0.25	5.0
1,1-Dichloroethene	5.0	U	0.25	5.0
1,2-Dichloropropane	5.0	U	0.32	5.0
cis-1,3-Dichloropropene	5.0	U	0.28	5.0
trans-1,3-Dichloropropene	5.0	U	0.28	5.0
Ethylbenzene	5.0	U	0.28	5.0
2-Hexanone	10	U	0.37	10
Methylene Chloride	5.0	U	0.26	5.0
methyl isobutyl ketone	10	U	0.38	10
Styrene	5.0	U	0.70	5.0
1,1,2,2-Tetrachloroethane	5.0	U	0.23	5.0
Tetrachloroethene	5.0	U	0.30	5.0
Toluene	5.0	U	0.090	5.0
1,1,1-Trichloroethane	5.0	U	0.38	5.0
1,1,2-Trichloroethane	5.0	U	0.33	5.0
Trichloroethene	5.0	U	0.26	5.0
Vinyl chloride	5.0	U	0.30	5.0
Xylenes, Total	5.0	U	0.46	5.0
cis-1,2-Dichloroethene	5.0	U	0.33	5.0
trans-1,2-Dichloroethene	5.0	U	0.22	5.0

Surrogate	%Rec	Acceptance Limits
1,2-Dichloroethane-d4 (Surr)	112	53 - 125
4-Bromofluorobenzene	80	73 - 127
Dibromofluoromethane	102	54 - 137
Toluene-d8 (Surr)	82	63 - 121

DB 1/8/08

EMM 1/7/08

Client: GEI Consultants, Inc.

Job Number: 220-3539-1
Sdg Number: 220-3539

Client Sample ID: EHS-GW-05

Lab Sample ID: 220-3539-3
Client Matrix: Water

Date Sampled: 12/03/2007 1535
Date Received: 12/04/2007 1600

8270C Semivolatile Compounds by Gas Chromatography/Mass Spectrometry (GC/MS)

Method: 8270C
Preparation: 3510C
Dilution: 1.0
Date Analyzed: 12/12/2007 2239
Date Prepared: 12/10/2007 1530

Analysis Batch: 220-11829
Prep Batch: 220-11706

Instrument ID: HP 6890/5975
Lab File ID: C4075.D
Initial Weight/Volume: 1000 mL
Final Weight/Volume: 1.0 mL
Injection Volume: 1 uL

Analyte	Result (ug/L)	Qualifier	MDL	RL
Acenaphthene	0.44	J J ✓	0.35	10
Acenaphthylene	0.39	J J ✓	0.35	10
Anthracene	0.43	J J ✓	0.32	10
Benzo[a]anthracene	0.45	J J ✓	0.44	10
Benzo[a]pyrene	10	U	0.32	10
Benzo[b]fluoranthene	10	U	0.45	10
Benzo[g,h,i]perylene	10	U	0.40	10
Benzo[k]fluoranthene	0.30	J J ✓	0.29	10
Bis(2-chloroethoxy)methane	10	U	0.51	10
Bis(2-chloroethyl)ether	10	U ✓ ✓	2.0	10
Bis(2-ethylhexyl) phthalate	10	U	1.7	10
Butyl benzyl phthalate	10	U	0.43	10
Carbazole	10	U	0.61	10
Chrysene	0.41	J J ✓	0.40	10
Di-n-butyl phthalate	10	U	1.9	10
Di-n-octyl phthalate	10	U	0.35	10
4-Bromophenyl phenyl ether	0.39	J J ✓	0.26	10
4-Chloroaniline	10	U	0.31	10
2-Chloronaphthalene	10	U	0.46	10
4-Chlorophenyl phenyl ether	10	U	0.48	10
Dibenz(a,h)anthracene	10	U	0.39	10
Dibenzofuran	10	U	0.46	10
Diethyl phthalate	0.52	J J ✓	0.37	10
Dimethyl phthalate	10	U	0.29	10
1,2-Dichlorobenzene	10	U	0.43	10
1,3-Dichlorobenzene	10	U	0.49	10
1,4-Dichlorobenzene	10	U	0.38	10
3,3'-Dichlorobenzidine	10	U	0.60	10
2,4-Dinitrotoluene	10	U	0.48	10
2,6-Dinitrotoluene	10	U	0.49	10
Fluoranthene	1.4	J J ✓	0.51	10
Fluorene	0.50	J J ✓	0.35	10
Hexachlorobenzene	10	U	0.35	10
Hexachlorobutadiene	10	U	0.74	10
Hexachlorocyclopentadiene	10	U	1.3	10
Hexachloroethane	10	U	0.64	10
Indeno[1,2,3-cd]pyrene	10	U	0.51	10
Isophorone	10	U	0.54	10
2-Methylnaphthalene	0.81	J J ✓	0.49	10
Naphthalene	10	U	0.47	10
2-Nitroaniline	50	U	0.45	50
3-Nitroaniline	50	U	0.41	50
Nitrobenzene	10	U	0.50	10
N-Nitrosodi-n-propylamine	10	U	0.59	10

DB 1/18/08 EMM 1/18/08

Client: GEI Consultants, Inc.

Job Number: 220-3539-1
Sdg Number: 220-3539

Client Sample ID: EHS-GW-05

Lab Sample ID: 220-3539-3
Client Matrix: Water

Date Sampled: 12/03/2007 1535
Date Received: 12/04/2007 1600

8270C Semivolatile Compounds by Gas Chromatography/Mass Spectrometry (GC/MS)

Method: 8270C
Preparation: 3510C
Dilution: 1.0
Date Analyzed: 12/12/2007 2239
Date Prepared: 12/10/2007 1530

Analysis Batch: 220-11829
Prep Batch: 220-11706

Instrument ID: HP 6890/5975
Lab File ID: C4075.D
Initial Weight/Volume: 1000 mL
Final Weight/Volume: 1.0 mL
Injection Volume: 1 uL

Analyte	Result (ug/L)	Qualifier	MDL	RL
N-Nitrosodiphenylamine	0.55	J J	0.41	10
Phenanthrene	0.71	J J	0.28	10
Pyrene	0.82	J J	0.40	10
1,2,4-Trichlorobenzene	10	U	0.47	10
4-Chloro-3-methylphenol	10	U	0.43	10
2-Chlorophenol	10	U	0.46	10
2-Methylphenol	10	U	0.50	10
4-Methylphenol	0.54	J J	0.39	10
2,4-Dichlorophenol	0.32	J J	0.30	10
2,4-Dimethylphenol	10	U	0.63	10
2,4-Dinitrophenol	50	U	1.7	50
4,6-Dinitro-2-methylphenol	50	U	3.3	50
2-Nitrophenol	10	U	0.50	10
4-Nitrophenol	50	U	1.3	50
Pentachlorophenol	50	U	4.1	50
Phenol	10	U	0.85	10
2,4,5-Trichlorophenol	50	U	0.33	50
2,4,6-Trichlorophenol	10	U	0.42	10
Benzyl alcohol	10	U	0.84	10
4-Nitroaniline	20	U	0.50	20
2,2'-oxybis[1-chloropropane]	10	U	0.54	10

Surrogate	%Rec		Acceptance Limits
2-Fluorobiphenyl	91		43 - 116
2-Fluorophenol	56		21 - 97
2,4,6-Tribromophenol	109		29 - 126
Nitrobenzene-d5	89		38 - 113
Phenol-d5	36		18 - 97
Terphenyl-d14	123	*	10 - 119

DB 1/18/08 EMM 1/18/08

Client: GEI Consultants, Inc.

Job Number: 220-3539-1
Sdg Number: 220-3539

Client Sample ID: EHS-GW-05

Lab Sample ID: 220-3539-3
Client Matrix: Water

Date Sampled: 12/03/2007 1535
Date Received: 12/04/2007 1600

6010B Inductively Coupled Plasma - Atomic Emission Spectrometry

Method: 6010B
Preparation: 3010A
Dilution: 1.0
Date Analyzed: 12/10/2007 1652
Date Prepared: 12/06/2007 1004

Analysis Batch: 220-11721
Prep Batch: 220-11621

Instrument ID: TJA Trace ICAP
Lab File ID: W121007
Initial Weight/Volume: 50 mL
Final Weight/Volume: 50 mL

Analyte	Result (ug/L)	Qualifier	MDL	RL
Silver	5.0	U	1.3	5.0
Aluminum	280	J ✓	84	500
Arsenic	25	U	5.4	25
Barium	70	J ✓	2.3	5.0
Beryllium	5.0	U	0.60	5.0
Calcium	31000		130	300
Cadmium	10	U	1.1	10
Cobalt	10	U	2.1	10
Chromium	9.7	J ✓	1.9	10
Copper	10	U	3.9	10
Iron	460		51	200
Potassium	3100	J ✓	130	400
Magnesium	5000		55	100
Manganese	970		5.2	15
Sodium	21600		350	400
Nickel	11		1.9	10
Lead	10	U	4.9	10
Antimony	50	U	6.0	50
Selenium	30	U	9.8	30
Thallium	40	U	8.1	40
Vanadium	5.0	U	1.0	5.0
Zinc	18	J ✓	12	50

7470A Mercury in Liquid Waste (Manual Cold Vapor Technique)

Method: 7470A
Preparation: 7470A
Dilution: 1.0
Date Analyzed: 12/15/2007 1839
Date Prepared: 12/15/2007 1554

Analysis Batch: 220-11902
Prep Batch: 220-11900

Instrument ID: Perkin Elmer FIMS
Lab File ID: N/A
Initial Weight/Volume: 25 mL
Final Weight/Volume: 50 mL

Analyte	Result (ug/L)	Qualifier	MDL	RL
Mercury	~~0.20~~ 0.40 ✓	U	~~0.10~~ 0.20 ✓	~~0.20~~ 0.40 ✓

Jam 1/3/08

DD 1/18/08

Client: GEI Consultants, Inc.

Job Number: 220-3539-1
Sdg Number: 220-3539

Client Sample ID: **EHS-GW-05**

Lab Sample ID: 220-3539-3
Client Matrix: Water

Date Sampled: 12/03/2007 1535
Date Received: 12/04/2007 1600

8081A Organochlorine Pesticides by Gas Chromatography

Method: 8081A
Preparation: 3510C
Dilution: 1.0
Date Analyzed: 12/15/2007 2143
Date Prepared: 12/10/2007 2241

Analysis Batch: 220-11916
Prep Batch: 220-11710

Instrument ID: HP 5890 with dual ECD
Lab File ID: D7518022.D
Initial Weight/Volume: 1000 mL
Final Weight/Volume: 10 mL
Injection Volume: 1 uL
Column ID: PRIMARY

Analyte	Result (ug/L)	Qualifier	MDL	RL
4,4'-DDD	0.15	U	0.014	0.15
4,4'-DDE	0.10	U	0.0088	0.10
4,4'-DDT	0.10	UJ ✓	0.010	0.10
Aldrin	0.050	U	0.0058	0.050
alpha-BHC	0.050	U	0.011	0.050
beta-BHC	0.050	U	0.013	0.050
delta-BHC	0.050	U	0.0022	0.050
Dieldrin	~~0.810~~ 0.10U ✓	~~JM~~ ✓	0.0057	0.10
Endosulfan I	0.050	U	0.0035	0.050
Endosulfan II	0.10	U	0.0035	0.10
Endosulfan sulfate	0.10	U	0.014	0.10
Endrin	0.10	U	0.025	0.10
Endrin aldehyde	0.10	UJ ✓	0.028	0.10
Endrin ketone	0.10	U	0.016	0.10
gamma-BHC (Lindane)	0.050	U	0.0052	0.050
Heptachlor	0.050	U	0.0078	0.050
Heptachlor epoxide	0.050	U	0.0057	0.050
Methoxychlor	0.50	U	0.041	0.50
Toxaphene	2.5	U	0.21	2.5
alpha-Chlordane	0.050	U	0.0055	0.050
gamma-Chlordane	0.019 J ✓	~~JM~~	0.0061	0.050

Surrogate	%Rec	Acceptance Limits
DCB Decachlorobiphenyl	77	29 - 156
Tetrachloro-m-xylene	97	53 - 144

Method: 8081A
Preparation: 3510C
Dilution: 1.0
Date Analyzed: 12/15/2007 2143
Date Prepared: 12/10/2007 2241

Analysis Batch: 220-11916
Prep Batch: 220-11710

Instrument ID: HP 5890 with dual ECD
Lab File ID: C7518022.D
Initial Weight/Volume: 1000 mL
Final Weight/Volume: 10 mL
Injection Volume: 1 uL
Column ID: SECONDARY

Surrogate	%Rec	Acceptance Limits
DCB Decachlorobiphenyl	71	29 - 156
Tetrachloro-m-xylene	94	53 - 144

JAM 1/11/08

DB 1/18/08

Client: GEI Consultants, Inc.

Job Number: 220-3539-1
Sdg Number: 220-3539

Client Sample ID: **EHS-GW-05**

Lab Sample ID: 220-3539-3
Client Matrix: Water

Date Sampled: 12/03/2007 1535
Date Received: 12/04/2007 1600

8082 Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Method: 8082
Preparation: 3510C
Dilution: 1.0
Date Analyzed: 12/14/2007 2017
Date Prepared: 12/10/2007 2241

Analysis Batch: 220-11915
Prep Batch: 220-11710

Instrument ID: HP 5890 with dual ECD
Lab File ID: D4666081.d
Initial Weight/Volume: 1000 mL
Final Weight/Volume: 10 mL
Injection Volume: 1 uL
Column ID: PRIMARY

Analyte	Result (ug/L)	Qualifier	MDL	RL
PCB-1016	0.50	U	0.072	0.50
PCB-1221	1.0	U	0.23	1.0
PCB-1232	0.50	U	0.11	0.50
PCB-1242	0.50	U	0.11	0.50
PCB-1248	0.50	U	0.15	0.50
PCB-1254	0.50	U	0.037	0.50
PCB-1260	0.50	U	0.064	0.50

Surrogate	%Rec	Acceptance Limits
Tetrachloro-m-xylene	86	53 - 144
DCB Decachlorobiphenyl	70	29 - 156

jam 1/11/08

DB 1/18/08

TestAmerica Connecticut

Client Sample ID: EHS-GW-05

GC Semivolatiles

Lot-Sample #...:	A7L060295-003	**Work Order #...:**	KDLMT1AA	**Matrix.....:**	WG
Date Sampled...:	12/03/07 15:35	**Date Received..:**	12/06/07		
Prep Date.....:	12/10/07	**Analysis Date..:**	12/11/07		
Prep Batch #...:	7344015				
Dilution Factor:	1	**Initial Wgt/Vol:**	500 mL	**Final Wgt/Vol..:**	100 mL
		Method.....:	SW846 8151A		

PARAMETER	RESULT	REPORTING LIMIT	UNITS	MDL
2,4,5-T	ND	1.0	ug/L	0.17
2,4-D	ND	4.0	ug/L	1.5
2,4,5-TP	ND	1.0	ug/L	0.16

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
2,4-Dichlorophenylacetic acid	78	(32 - 112)

EHM 1/8/08

DB 1/18/08

General Chemistry

Client Sample ID: **EHS-GW-01**

Lab Sample ID: 220-3509-1
Client Matrix: Water

Date Sampled: 11/29/2007 1100
Date Received: 11/30/2007 1855

Analyte	Result	Qual	Units	MDL	RL	Dil	Method
Sulfate	13.0		mg/L	0.0086	1.0	1.0	300.0
	Anly Batch: 220-11618	Date Analyzed	12/04/2007 1922				
Sulfide	1.0	U	mg/L	0.22	1.0	1.0	376.1
	Anly Batch: 220-11575	Date Analyzed	12/04/2007 1400				

DB 1/18/08

Jam 1/3/08

General Chemistry

Client Sample ID: EHS-GW-02

Lab Sample ID: 220-3539-1
Client Matrix: Water

Date Sampled: 12/03/2007 1125
Date Received: 12/04/2007 1600

Analyte	Result	Qual	Units	MDL	RL	Dil	Method
Sulfate	11.1		mg/L	0.0086	1.0	1.0	300.0
	Anly Batch: 220-11713	Date Analyzed	12/05/2007 1804				
Sulfide	1.0	U	mg/L	0.22	1.0	1.0	376.1
	Anly Batch: 220-11670	Date Analyzed	12/07/2007 1301				

Client Sample ID: EHS-GW-04

Lab Sample ID: 220-3539-2
Client Matrix: Water

Date Sampled: 12/03/2007 1410
Date Received: 12/04/2007 1600

Analyte	Result	Qual	Units	MDL	RL	Dil	Method
Sulfate	17.9		mg/L	0.0086	1.0	1.0	300.0
	Anly Batch: 220-11713	Date Analyzed	12/05/2007 1817				
Sulfide	1.0	U	mg/L	0.22	1.0	1.0	376.1
	Anly Batch: 220-11670	Date Analyzed	12/07/2007 1301				

Client Sample ID: EHS-GW-05

Lab Sample ID: 220-3539-3
Client Matrix: Water

Date Sampled: 12/03/2007 1535
Date Received: 12/04/2007 1600

Analyte	Result	Qual	Units	MDL	RL	Dil	Method
Sulfate	19.7		mg/L	0.0086	1.0	1.0	300.0
	Anly Batch: 220-11713	Date Analyzed	12/05/2007 1830				
Sulfide	1.0	U	mg/L	0.22	1.0	1.0	376.1
	Anly Batch: 220-11670	Date Analyzed	12/07/2007 1301				

Client Sample ID: EHS-GW-XX-120307

Lab Sample ID: 220-3539-4
Client Matrix: Water

Date Sampled: 12/03/2007 1700
Date Received: 12/04/2007 1600

Analyte	Result	Qual	Units	MDL	RL	Dil	Method
Sulfate	11.0		mg/L	0.0086	1.0	1.0	300.0
	Anly Batch: 220-11713	Date Analyzed	12/05/2007 1844				
Sulfide	1.0	U	mg/L	0.22	1.0	1.0	376.1
	Anly Batch: 220-11670	Date Analyzed	12/07/2007 1301				

DB 1/18/08

JAM 1/3/08

Client: GEI Consultants, Inc.

Job Number: 220-3406-1
Sdg Number: 220-3406

General Chemistry

Client Sample ID: **EHS-GW-03**

Lab Sample ID: 220-3406-1
Client Matrix: Water

Date Sampled: 11/16/2007 1100
Date Received: 11/16/2007 2100

Analyte	Result	Qual	Units	MDL	RL	Dil	Method
Sulfate	19.0		mg/L	0.0086	1.0	1.0	300.0
	Anly Batch: 220-11361	Date Analyzed	11/22/2007 0122				
Sulfide	1.0	U	mg/L	0.22	1.0	1.0	376.1
	Anly Batch: 220-11321	Date Analyzed	11/21/2007 1243				

GB 1/18/08

Jam 1/3/08

12/13/2007

Rec'd 4/3/9

Keyspan-East Hampton, Project 072710-2-1105

Site: Keyspan-East Hampton
Laboratory: Test America, CT
Report No.: 220-8107-1
Reviewer: Lisa McDonagh/GEI Consultants
Date: April 1, 2009

Samples Reviewed and Evaluation Summary

FIELD ID	LAB ID	FRACTIONS VALIDATED
Trip Blank	220-8107-1	VOC
EHS-SS-10	220-8107-3	VOC, SVOC, HERB
EHS-SS-08	220-8107-4	VOC, SVOC, HERB
EHS-SS-09	220-8107-5	VOC, SVOC, HERB
EHS-SS-07	220-8107-6	VOC, SVOC, HERB
BD-1	220-8107-7	VOC, SVOC, HERB
RB-1	220-8107-8	VOC, SVOC, HERB

Associated QC Samples(s):	Field Blanks:	Trip Blank
	Field Duplicate pair:	EHS-SS-09/BD-1

The above-listed soil samples were collected on February 18, 2009 and were analyzed for volatile organic compounds (VOCs) by SW-846 method 8260B, semivolatile organic compounds (SVOCs) by SW-846 method 8270C and herbicide organic compounds (HERBs) by SW-846 method 8151A. The data validation based on the USEPA Contract Laboratory Program National Functional Guidelines for Organic Data Review, October 1999 and the USEPA Region II Standard Operating Procedure (SOP) for the Validation of Organic Data acquired using SW-846 8260B, 8270C and 8151A, modified to accommodate the SW-846 methodologies.

The organic data were evaluated based on the following parameters:

*	• Data Completeness
*	• Holding Times and Sample Preservation
*	• Gas Chromatography/Mass Spectrometry (GC/MS) Tunes
	• Initial and Continuing Calibrations
	• Blanks
*	• Surrogate Recoveries
NA	• Matrix Spike/Matrix Spike Duplicate (MS/MSD) Results
	• Laboratory Control Sample (LCS) Results
*	• Internal Standards
	• Field Duplicate Results
	• Quantitation Limits and Data Assessment
*	• Sample Quantitation and Compound Identification

* - All criteria were met.

All results are usable for project objectives.

Qualifications applied the data as a result of sampling error are discussed below.

- The HERB positive and/or nondetect results were qualified as estimated (J/UJ) due to field duplicate %RPDs which were above the required limits: 2,4-D and 2,4,5-T in samples EHS-SS-09 and BD-1. These results can be used for project objectives as estimated values, which may have a minor impact on the data usability.

Qualifications applied to the data as a result of analytical error are discussed below.

- Potential uncertainty exists for select VOC and SVOC results, which were below the lowest calibration standard. These results were qualified as estimated (J). These results can be used for project objectives as estimated values, which may have a minor impact on the data usability.

- The positive VOC results for acetone in samples Trip Blank and RB-1 were qualified as estimated (J) due to continuing calibration nonconformances. The results can be used for project objectives as estimated values, which may have a minor impact on the data usability.

- The nondetect Herbicide results for 2,4-D in all samples 220-8107-1 and 2,4,5-T in sample RB-1 were qualified as estimated (UJ) due to continuing calibration nonconformances. The nondetect results can be used for project objectives as estimated quantitation limits. These qualifications may have a minor impact on the data usability.

- The positive VOC results for methylene chloride in samples EHS-SS-10, EHS-SS-08, EHS-SS-09, EHS-SS-07 and BD-1 were qualified as a nondetect due to method blank contamination. The results are still usable for project objectives as nondetect. These qualifications may have a minor impact on the data usability.

The validation findings were based on the following information.

Data Completeness

The data package was complete as defined under the requirements for the NYASP category B deliverables for the VOC, SVOC and HERB analyses.

Holding Times and Sample Preservation

All holding time and sample preservation criteria were met in the VOC, SVOC and HERB analyses.

GC/MS Tunes

All criteria were met in the VOC and SVOC analyses.

Initial and Continuing Calibrations

VOC

Compounds that did not meet criteria in the VOC calibrations are summarized in the following table.

Instrument ID MSV Compound	IC 02/26/09	CC 02/27/09
Acetone		XX(31.6%)
Samples Affected	All samples listed.	Trip Blank RB-1

X = Initial calibration (IC) relative standard deviation (%RSD) > 30 for GC/MS (VOC and SVOC); estimate (J) positive and blank-qualified (UJ) results only.
XX = Continuing calibration (CC) percent difference (%D) > 25; estimate (J/UJ) positive and nondetect results.
XXX = Continuing calibration (CC) percent difference (%D) > 90; estimate (J) positive results and reject (R) nondetect results.
+ = Response factor (RRF) < 0.05; Estimate (J) positive results and reject (R) nondetect results.

The positive VOC result for acetone in samples Trip Blank and RB-1 in samples was qualified as estimated (J) due to continuing calibration nonconformances.

SVOC

All criteria were met in the SVOC analyses.

HERB

Compounds that did not meet criteria in the HERB calibrations are summarized in the following tables.

Instrument ID: 0911_2 Compound	CC 03/04/09 21:33 RTX-CLP	CC 03/04/09 21:33 RTX-CLPII
2,4,5-T		XX(18.6%)
Samples Affected	RB-1	RB-1

X = Initial calibration (IC) relative standard deviation (%RSD) > 20; estimate (J) positive and (UJ) blank-qualified nondetect results.
XX = Continuing calibration (CC) percent difference (%D) > 15; estimate (J/UJ) positive and nondetect results.
XXX = The correlation coefficient for the calibration curve < 0.995; estimate (J) positive results only.

Instrument ID: 0911_2 Compound	CC 03/05/09 01:14 RTX-CLP	CC 03/05/09 01:14 RTX-CLPII
2,4-D		XX(16.0%)
2,4,5-T	XX(15.5%)	
Samples Affected	RB-1	RB-1

X = Initial calibration (IC) relative standard deviation (%RSD) > 20; estimate (J) positive and (UJ) blank-qualified nondetect results.
XX = Continuing calibration (CC) percent difference (%D) > 15; estimate (J/UJ) positive and nondetect results.
XXX = The correlation coefficient for the calibration curve < 0.995; estimate (J) positive results only.

Instrument ID: 0911_2 Compound	CC 03/05/09 04:34 RTX-CLP	CC 03/05/09 04:34 RTX-CLPII
2,4-D		XX(16.4%)
Samples Affected	EHS-SS-10 EHS-SS-08 EHS-SS-07 BD-1	EHS-SS-10 EHS-SS-08 EHS-SS-07 BD-1

X = Initial calibration (IC) relative standard deviation (%RSD) > 20; estimate (J) positive and (UJ) blank-qualified nondetect results.
XX = Continuing calibration (CC) percent difference (%D) > 15; estimate (J/UJ) positive and nondetect results.
XXX = The correlation coefficient for the calibration curve < 0.995; estimate (J) positive results only.

Instrument ID: 0911_2 Compound	CC 03/05/09 06:47 RTX-CLP	CC 03/05/09 06:47 RTX-CLPII
2,4-D		XX(18.5%)
Samples Affected	EHS-SS-10 EHS-SS-08 EHS-SS-09 EHS-SS-07 BD-1	EHS-SS-10 EHS-SS-08 EHS-SS-09 EHS-SS-07 BD-1

X = Initial calibration (IC) relative standard deviation (%RSD) > 20; estimate (J) positive and (UJ) blank-qualified nondetect results.
XX = Continuing calibration (CC) percent difference (%D) > 15; estimate (J/UJ) positive and nondetect results.
XXX = The correlation coefficient for the calibration curve < 0.995; estimate (J) positive results only.

The nondetect Herbicide results for 2,4-D in all samples 220-8107-1 and 2,4,5-T in sample RB-1 were qualified as estimated (UJ) due to continuing calibration nonconformances.

Blanks

VOC

Methylene chloride, acetone and 2-butanone were detected in the method and field blank samples. The presence of blank contamination indicates that false positives may exist for this compound in the associated samples. Action Levels (ALs) were established at 10x (for common contaminants) and 5x (for other compounds) the concentrations detected. The following table summarizes the AL.

Compound	Type of Blank	Associated Samples	Maximum Concentration	Action Level
Methylene chloride	Method Blank	EHS-SS-10 EHS-SS-08 EHS-SS-09 EHS-SS-07 BD-1	1.6 ug/Kg	16 ug/Kg
Acetone	Field Blank	All soil samples 220-8107-1.	4.8 ug/L	48 ug/L
2-butanone			5.1 ug/L	51 ug/L

Sample results were qualified as follows:

- If sample concentration was < the quantitation limit (QL) and ≤ the Action Level, qualify the result as a nondetect (U) at the QL.

- If sample concentration was > the QL and ≤ the Action Level, qualify the result as not detected (U) at the reported concentration.
- If the sample concentration was > the QL and > the Action Level, qualification of the data was not required.

The positive VOC results for methylene chloride in samples EHS-SS-10, EHS-SS-08, EHS-SS-09, EHS-SS-07 and BD-1 were qualified as a nondetect due to method blank contamination.

SVOC

Target compounds were not detected in the SVOC method and field blank samples. Qualifications were not required.

HERB

Target compounds were not detected in the HERB method and field blank samples. Qualifications were not required.

Surrogate Recoveries

VOC, SVOC and HERB

All criteria were met in the VOC, SVOC and HERB analyses.

MS/MSD Results

VOC, SVOC and HERB

Batch QC submitted with the data package.

LCS Results

VOC

All criteria were met in the VOC analyses.

SVOC

The following table lists the recoveries, which were outside of control limits in the LCS analyses and the resulting validation actions.

Compound	Recovery (%)	Control Limits	Associated Samples	Validation Actions
2,4-dinitrophenol	85	0-36	All soil samples 220-8107-1.	Qualifications were not required.

HERB

All criteria were met in the HERB analyses

Internal Standards

VOC and SVOC

All criteria were met in the VOC and SVOC analyses.

Field Duplicate Results

Samples EHS-SS-09 and BD-1 were submitted as the field duplicate pair with this sample group.

VOC

All criteria were met in the VOC analyses. Target compounds were not detected in the VOC field duplicate samples. Qualifications were not required.

SVOC

The following table summarizes the SVOC RPDs of detected analytes, all of which met criteria.

Analyte	EHS-SS-09 ug/Kg	BD-1 ug/Kg	RPD (%)
Anthracene	83	320U	118, within 2XQL.
Benzo(a)anthracene	320	170	61, within 2XQL.
Benzo(a)pyrene	320	200	46
Benzo(b)fluoranthene	330	220	40
Benzo(ghi)perylene	490	380	25
Benzo(k)fluoranthene	120	84	35
Chrysene	350	210	50
Dibenz(ah)anthracene	62	320U	135, within 2XQL.
Fluoranthene	560	300	60, within 2XQL.
Indeno(123cd)pyrene	490	380	25
Phenanthrene	480	190	86, within 2XQL.
Pyrene	560	260	73, within 2XQL.

NC-Not calculable
For soil results >5xQL and RPDs>50; estimate (J) results in the field duplicate pair.
For soil results <5xQL; the sample and duplicate results must be within 2xQL.

HERB

The following table summarizes the HERB RPDs of detected analytes, all of which met criteria, with the exception of 2,4D and 2,4,5-T.

Analyte	EHS-SS-09 ug/Kg	BD-1 ug/Kg	RPD (%)
2,4-D	270	46U	**142**
2,4,5-T	230	11U	**182**

NC-Not calculable
For soil results >5xQL and RPDs>50; estimate (J) results in the field duplicate pair.
For soil results <5xQL; the sample and duplicate results must be within 2xQL.

Quantitation Limits and Data Assessment

VOC, SVOC and HERB

Results were reported which were below the reporting limit (RL) and above the method detection limit (MDL) in the VOC and SVOC analyses. These results were qualified as estimated (J) due to uncertainty at the low end of the calibration.

All VOC, SVOC and HERB analyses were performed at a 1:1 dilution.

Sample Quantitation and Compound Identification

VOC, SVOC and HERB

Calculations were spot-checked; no discrepancies were noted in the VOC, SVOC and HERB analyses.

Site: East Hampton
Laboratory: Test America, Shelton, CT
Report No.: 220-8107
Reviewer: Lorie MacKinnon/GEI Consultants
Date: March 28, 2009

Samples Reviewed and Evaluation Summary

FIELD ID	LAB ID	FRACTIONS VALIDATED
EHS-GW-01	220-8107-02	Metals
EHS-SS-10	220-8107-03	Metals, Sulfate, Sulfide
EHS-SS-08	220-8107-04	Metals, Sulfate, Sulfide
EHS-SS-09	220-8107-05	Metals, Sulfate, Sulfide
EHS-SS-07	220-8107-06	Metals, Sulfate, Sulfide
BD-1	220-8107-07	Metals, Sulfate, Sulfide
RB-1	220-8107-08	Metals, Sulfate, Sulfide

Associated QC Samples(s):	Field Blanks:	RB-1
	Field Duplicate pair:	EHS-SS-09/BD-1

The above-listed soil samples and field blank sample were collected on February 18, 2009 and were analyzed for metals by SW-846 methods 6010B/7470/7471A, sulfate by EPA method 300.0, and sulfide by SW-846 method 9030. The data validation was performed in accordance with the *USEPA Contract Laboratory Program National Functional Guidelines for Inorganic Data Review, EPA 540/R-04/004* (October 2004) and the *USEPA Region 2 Standard Operating Procedure for the Evaluation of Metals for the Contract Laboratory Program,* SOP HW-2, Revision 13 (September 2005), modified as necessary to accommodate the non-CLP methodologies used.

The inorganic data were evaluated based on the following parameters:

* • Overall Evaluation of Data and Potential Usability Issues
* • Data Completeness
* • Holding Times and Sample Preservation
* • Instrument Calibration
* • Contract Required Quantitation Limit (CRQL) Standard Recoveries
• Blank Analysis Results
• Inductively Coupled Plasma (ICP) Interference Check Sample (ICS) Results
• Matrix Spike/Matrix Spike Duplicate (MS/MSD) Results
• Laboratory Duplicate Results
* • Field Duplicate Results
• Laboratory Control Sample (LCS) Results
• Serial Dilution Results
* • Moisture Content
• Detection Limits Results

* • Sample Quantitation Results

* - All criteria were met for this parameter.

Overall Evaluation of Data and Potential Usability Issues

All results are usable for project objectives.

Qualifications applied to the data as a result of sampling error are discussed below.

- The positive results for sodium in sample EHS-SS-10 and sulfide in samples EHS-SS-10, EHS-SS-08, and EHS-SS-07 were qualified as nondetect (U) at the reporting limit due to field blank contamination. The results are usable for project objectives as nondetects which may have a minor effect on the data usability.

Qualifications applied to the data as a result of analytical error are discussed below.

- The positive results for selenium in sample EHS-SS-10 and sulfate in all soil samples were qualified as nondetect (U) at the reporting limit due to laboratory blank contamination. The results are usable for project objectives as nondetects which may have a minor effect on the data usability.

- Potential uncertainty exists for the following results which were detected above the method detection limit (MDL) but below the low calibration check standard:

Beryllium:	All soil samples
Cobalt:	EHS-SS-10
Copper:	EHS-GW-01
Iron:	EHS-GW-01
Manganese:	EHS-GW-01
Nickel:	EHS-GW-01
Selenium:	EHS-SS-08
Silver:	EHS-SS-07
Sodium:	EHS-SS-08, RB-1
Thallium:	EHS-SS-08
Sulfate:	RB-1

These results were qualified as estimated (J) and can be used for project objectives as estimated values which may have a minor effect on the data usability.

Data Completeness

The data package was complete as defined under the requirements for the NYSDEC ASP category B laboratory deliverables for the metals and inorganic analyses.

Holding Times and Sample Preservation

All criteria were met.

Instrument Calibration

All criteria were met.

CRQL Standard Recoveries

All criteria were met.

Blank Results

Analytes were detected in the metals laboratory blank samples and field blank sample. Analytes which were detected in the project samples at levels less than five times those in the blanks were qualified as nondetect (U). The following table summarizes the contamination.

Analyte	Blank ID	Associated Samples	Maximum Concentration	Action Level
Antimony	Instrument	EHS-SS-10	23 ug/L, 4.6 mg/kg	23.0 mg/kg
Selenium	Method	EHS-SS-10, EHS-SS-08, EHS-SS-09, EHS-SS-07	0.90 mg/kg	4.5 mg/kg
Sulfate	Instrument	All samples	0.18 mg/L, 1.8 mg/kg	9.0 mg/kg
Sodium	RB-1	All soil samples	67 ug/L, 13.4 mg/kg	67 mg/kg
Sulfide	RB-1	All soil samples	5.6 mg/L, 28 mg/kg	140 mg/kg

Blank Actions

If the sample result is < QL and < action level; report the result as nondetect (U) at the QL.
If the sample result is ≥ QL and < action level; report the sample result as nondetect (U) at the reported value.
For negative blank contamination ≥2 MDL; professional judgement was taken to estimate (J/UJ) those results which were less than the action level.

The positive results for selenium in sample EHS-SS-10 and sulfate in all soil samples were qualified as nondetect (U) at the reporting limit due to laboratory blank contamination. The positive results for sodium in sample EHS-SS-10 and sulfide in samples EHS-SS-10, EHS-SS-08, and EHS-SS-07 were qualified as nondetect (U) at the reporting limit due to field blank contamination.

ICP ICS Results

All analytes were recovered within control limits in the ICSAB sample analysis.

Positive results for manganese and vanadium and negative results for cobalt and zinc were detected above the method detection limit (MDL) in the ICSA solution analysis

associated with sample EHS-SS-10. Positive results for barium, manganese, sodium, and vanadium and negative results for cobalt and zinc were detected above the method detection limit (MDL) in the ICSA solution analysis associated with samples EHS-GW-01, EHS-SS-08, EHS-SS-09, EHS-SS-07, BD-1, and RB-1. Sample interferent levels were reviewed. Validation actions were not required on this basis as sample interferents levels were less than those of the ICSA sample.

MS Results

The laboratory performed MS/MSD analyses on various non-project samples for metals, sulfide, and sulfate. Due to differences in matrix, type, etc, the results of these MS/MSDs were not used to qualify the project samples in this case number.

Laboratory Duplicate Results

The laboratory performed the duplicate analyses on various non-project samples for metals, sulfide, and sulfate. Due to differences in matrix, type, etc, the results of these duplicates were not used to qualify the project samples in this case number.

Field Duplicate Results

Samples EHS-SS-09 and BD-1 were submitted as the field duplicate pair with this sample group. The following table summarizes the RPDs of the detected analytes, all of which were within the acceptance criteria.

Analyte	EHS-SS-09 (mg/kg)	BD-1 (mg/kg)	RPD (%)
Aluminum	7580	6980	8.2
Arsenic	12.3	8.7	34.3
Barium	22.8	20.8	9.2
Beryllium	0.38	0.43	12.3
Calcium	873	721	19.1
Chromium	9.7	8.9	8.6
Cobalt	3.1	3.1	0
Copper	24.0	20.2	17.2
Iron	10500	13100	22.0
Lead	25.4	22.6	11.7
Magnesium	1490	1380	7.7
Manganese	114	124	8.4
Mercury	0.039	0.068	54.2, Within 2xQL

Analyte	EHS-SS-09 (mg/kg)	BD-1 (mg/kg)	RPD (%)
Nickel	6.2	6.0	3.3
Potassium	356	331	7.3
Sodium	262	207	23.5
Vanadium	17.1	16.7	2.4
Zinc	31.9	26.7	17.7

For soil results > 5xQL and RPDs >50; estimate (J) results in the field duplicate pair.
For soil results < 5xQL; the sample and duplicate results must be within 2xQL.

Moisture Content

All criteria were met.

LCS Results

The recovery for beryllium (121%) was above the control limits in the LCS associated with samples EHS-GW-01 and RB-01. The recovery for antimony (122%) was above the control limits in the LCS associated with samples EHS-SS-10, EHS-SS-08, EHS-SS-09, and EHS-SS-07. Validation action was not required on this basis as the results for beryllium and antimony were nondetect in the affected samples and therefore not affected by the potential high bias.

Serial Dilution Results

The laboratory performed the serial dilution analysis on various non-project samples for metals, sulfide, and sulfate. Due to differences in matrix, type, etc, the results of these serial dilutions were not used to qualify the project samples in this case number.

Detection Limits Results

Dilutions were not required.

Positive results which were above the MDL but below the reporting limit were reported by the laboratory with a "J" qualifier. These results were qualified as estimated (J) due to uncertainty at the low end of calibration.

However, in some cases the low level calibration check standard analyzed was less than the laboratory reporting limit. As analysis of the low level standard demonstrates the accuracy at that level, results which were above the method detection limit (MDL) but below the low level calibration check standard were estimated (J) by the validator. The following results were affected:

Beryllium: All soil samples

Cobalt:	EHS-SS-10
Copper:	EHS-GW-01
Iron:	EHS-GW-01
Manganese:	EHS-GW-01
Nickel:	EHS-GW-01
Selenium:	EHS-SS-08
Silver:	EHS-SS-07
Sodium:	EHS-SS-08, RB-1
Thallium:	EHS-SS-08
Sulfate:	RB-1

As the following results reported were greater than the lowest calibration standard or low level calibration check standard, the validator removed the laboratory "J" qualifiers: mercury in samples EHS-SS-09 and EHS-SS-07, nickel in sample BD-1, sodium in samples EHS-SS07 and BD-1, and zinc in sample BD-1.

The aqueous reporting limit for mercury was found to be calculated without the sample preparation factor (25 ml initial sample to 50 ml final volume). The validator edited the aqueous mercury reporting limits for the field blank sample to reflect the sample preparation dilution factor.

Sample Quantitation Results

Calculations were spot-checked; no discrepancies were noted.

recd 4/7/09

Site: East Hampton
Laboratory: Test America, Shelton, CT
Report No.: 220-8107
Reviewer: Lorie MacKinnon/GEI Consultants
Date: March 28, 2009

Samples Reviewed and Evaluation Summary

FIELD ID	LAB ID	FRACTIONS VALIDATED
EHS-SS-10	220-8107-03	Pesticide, PCBs
EHS-SS-08	220-8107-04	Pesticide, PCBs
EHS-SS-09	220-8107-05	Pesticide, PCBs
EHS-SS-07	220-8107-06	Pesticide, PCBs
BD-1	220-8107-07	Pesticide, PCBs
RB-1	220-8107-08	Pesticide, PCBs
Associated QC Samples(s):	Field Blanks:	RB-1
	Field Duplicate pair:	EHS-SS-09/BD-1

The above-listed soil samples and field blank sample were collected on February 18, 2009 and were analyzed for pesticides by SW-846 method 8081A and polychlorinated biphenyls (PCBs) by SW-846 method 8082. The data validation was performed in accordance with the *USEPA Contract Laboratory Program National Functional Guidelines for Organic Data Review, EPA 540/R-99/008* (October 1999) and the *USEPA Region II Functional Guidelines for Evaluating Organic Analyses* (March 2001), modified as necessary to accommodate the non-CLP methodology used.

The organic data were evaluated based on the following parameters:

*	•	Data Completeness
*	•	Holding Times and Sample Preservation
NA	•	Gas Chromatography/Mass Spectrometry (GC/MS) Tunes
	•	GC/Electron Capture Detector (GC/ECD) Instrument Performance Checks
	•	Initial and Continuing Calibrations
*	•	Blanks
	•	Surrogate Recoveries
	•	Matrix Spike/Matrix Spike Duplicate (MS/MSD) Results
*	•	Laboratory Control Sample (LCS) Results
*	•	Moisture Content
NA	•	Internal Standards
	•	Field Duplicate Results
	•	Quantitation Limits and Data Assessment
	•	Sample Quantitation and Compound Identification

* - All criteria were met.

NA – Not applicable to the method reviewed.

All results are usable for project objectives.

Qualifications applied to the data as a result of sampling error are discussed below.

- The positive results for 4,4'-DDE and 4,4'-DDT in samples EHS-SS-09 and BD-1 were qualified as estimated (J) due to high relative percent differences (RPDs) in the evaluation of the field duplicate pair. The direction of the bias cannot be determined from this nonconformance. The results can be used for project objectives as estimated values which may have a minor impact on the data usability.

Qualifications applied to the data as a result of analytical error are discussed below.

- Potential uncertainty exists for select pesticide and PCB results which were below the lowest calibration standard and quantitation limit. These results were qualified as estimated (J). These results can be used for project objectives as estimated values which may have a minor impact on the data usability.

- The positive and nondetect results for endrin, 4,4'-DDD, 4,4'-DDT, and methoxychlor in sample RB-1 and 4,4'-DDE, alpha-BHC, gamma-BHC, beta-BHC, delta-BHC, aldrin, heptachlor epoxide, gamma-chlordane, alpha-chlordane, endosulfan I, dieldrin, endrin, 4,4'-DDD, endosulfan II, endosulfan sulfate, and endrin ketone in all soil samples were qualified as estimated (J/UJ) due to continuing calibration nonconformances. The direction of the bias cannot be determined from these nonconformances. The results can be used for project objectives as estimated values and nondetects with estimated quantitation limits which may have a minor impact on the data usability.

- The positive results for endrin aldehyde and Aroclor 1260 in sample EHS-SS-08, 4,4'-DDD in sample EHS-SS-09, gamma-chlordane, dieldrin, 4,4'-DDD, and endrin aldehyde in sample EHS-SS-07, and 4,4'-DDD in sample BD-1 were qualified as nondetect (U) at the reporting limits due to the high dual column relative percent differences (%RPDs). The results can be used for project objectives as nondetects which may have a minor impact on the data usability.

- The positive results for 4,4'-DDD in sample EHS-SS-08, 4,4'-DDT in sample EHS-SS-07, and endosulfan sulfate in sample BD-1 were qualified as estimated (J) due to the high dual column relative percent differences (%RPDs). The direction of the bias cannot be determined. The results can be used for project objectives as estimated values which may have a minor impact on the data usability.

The validation findings were based on the following information.

Data Completeness

The data package was complete as defined under the requirements for the NYSDEC ASP category B laboratory deliverables for the pesticide and PCB analyses.

Holding Times and Sample Preservation

All holding time and sample preservation criteria were met in the pesticide and PCB analyses.

GC/ECD Instrument Performance Checks

The DDT breakdown (43.4 and 45.2) exceeded the control limit on both columns in the standard analyzed on 02/25/09 05:37 on instrument HP6890-08, associated with sample RB-1. Validation actions were not required as the affected compound results were nondetect.

Initial and Continuing Calibrations

Pesticides

Compounds that did not meet criteria in the pesticide continuing calibrations are summarized in the following tables.

Instrument ID HP6890-08 Compound	CC 02/25/09 06:03 RTX-CLP	CC 02/25/09 06:03 RTX-CLP Pest2
Endrin	XX (21.4%)	XX (22.3%)
4,4'-DDD	XX (37.1%)	XX (38.3%)
4,4'-DDT	XX (42.2%)	XX (42.2%)
Methoxychlor	XX (23.5%)	XX (21.8%)
Samples Affected	RB-1	RB-1

Instrument ID HP6890-08 Compound	CC 03/05/09 03:43 RTX-CLP Pest2	CC 03/05/09 03:43 RTX-CLP
Alpha-BHC	XX (41.2%)	XX (40.3%)
Gamma-BHC	XX (36.0%)	XX (32.7%)
Beta-BHC	XX (24.0%)	XX (23.3%)
Delta-BHC	XX (26.6%)	XX (23.1%)

Instrument ID HP6890-08 Compound	CC 03/05/09 03:43 RTX-CLP Pest2	CC 03/05/09 03:43 RTX-CLP
Aldrin	XX (23.5%)	XX (21.5%)
Heptachlor epoxide	XX (25.1%)	XX (23.6%)
Gamma-chlordane	XX (23.8%)	XX (20.6%)
Alpha-chlordane	XX (27.7%)	XX (21.3%)
4,4'-DDE		XX (15.1%)
Endosulfan I	XX (26.3%)	XX (23.2%)
Dieldrin	XX (29.5%)	XX (27.1%)
Endrin	XX (31.0%)	XX (30.5%)
4,4'-DDD	XX (32.1%)	XX (25.1%)
Endosulfan II	XX (24.9%)	XX (20.5%)
Endosulfan sulfate	XX (29.8%)	XX (24.4%)
Endrin ketone	XX (22.2%)	
Samples Affected	All soil samples	All soil samples

X = Initial calibration (IC) relative standard deviation (%RSD) > 30 for GC/MS (VOC and SVOC) and >20 for GC (pesticide/PCBs and herbicides) ; estimate (J) positive and blank-qualified (UJ) results only.

XX = Continuing calibration (CC) percent difference (%D) > 25 for GC/MS and >15 for GC; estimate (J/UJ) positive and nondetect results.

XXX = Continuing calibration (CC) percent difference (%D) > 90; estimate (J) positive results and reject (R) nondetect results.

The positive and nondetect results for endrin, 4,4'-DDD, 4,4'-DDT, and methoxychlor in sample RB-1 and 4,4'-DDE, alpha-BHC, gamma-BHC, beta-BHC, delta-BHC, aldrin, heptachlor epoxide, gamma-chlordane, alpha-chlordane, endosulfan I, dieldrin, endrin, 4,4'-DDD, endosulfan II, endosulfan sulfate, and endrin ketone in all soil samples were estimated (J/UJ) due to continuing calibration nonconformances.

PCB

The following table lists the Aroclor peak initial and continuing calibration results which were outside of control limits. No validation actions were required as the Aroclor %D averages for the standards were within control limits.

Compound	Calibration Date	Instrument ID/Column	%D
Aroclor 1016-5	02/25/09 19:24	HP5890-04/Pest2	16.9%
Average Aroclor 1016			8.1%
Aroclor 1260-5	02/25/09 19:24	HP5890-04/Pest2	17.5%
Average Aroclor 1260			6.8%

Blanks

Target compounds were not detected in the pesticide and PCB method and instrument blanks. Target compounds were not detected in the pesticide and PCB field blank sample.

Surrogate Recoveries

Pesticide

All criteria were met in the pesticide analyses.

PCB

The following table lists the surrogates recovered outside of control limits and the resulting actions.

Sample	DCB1	DCB2	TCMX1	TCMX2	Validation actions
Soil Limits	25-159	25-159	24-154	24-154	
BD-1	-	-	-	158%	Validation action was not required as the surrogate recovery was within control limits on the alternate column.

- Criteria met

MS/MSD Results

Pesticide

MS/MSD analyses were performed on a non-project sample (220-8106-3) for the pesticide analyses. The recoveries for 4,4'-DDT (136%) and endrin (129%) were above the control limits in the MS. Validation actions were not required as the sample was not included in this sample set.

PCB

An MS/MSD was not associated with this sample set.

LCS Results

All criteria were met in the pesticide and PCB analyses.

Moisture Content

All criteria were met.

Field Duplicate Results

Samples EHS-SS-09 and BD-1 were submitted as the field duplicate pair with this sample group. The following table summarizes the RPDs of the detected analytes, which were within the acceptance criteria, with the exception of 4,4'-DDE and 4,4'-DDT. The positive results for 4,4'-DDE and 4,4'-DDT in samples EHS-SS-09 and BD-1 were estimated (J).

Analyte	EHS-SS-09 (ug/kg)	BD-1 (ug/kg)	RPD (%)
4,4'-DDE	18	33	58.8
4,4'-DDT	15	31	69.6
Dieldrin	3.9 U	0.93	NC, Within 2xQL
Endosulfan sulfate	3.9 U	2.1	NC, Within 2xQL
Heptachlor	2.0 U	0.53	NC, Within 2xQL
Heptachlor epoxide	2.0 U	0.70	NC, Within 2xQL
Aroclor 1260	13	19	37.5

For soil results > 5xQL and RPDs >50; estimate (J) results in the field duplicate pair.
For soil results < 5xQL; the sample and duplicate results must be within 2xQL.

Quantitation Limits and Data Assessment

Results were reported which were below the reporting limit (RL) and above the MDL in the pesticide and PCB analyses. These results were qualified as estimated (J) by the laboratory. Dilutions were not required.

Sample Quantitation and Compound Identification

Calculations were spot-checked; no discrepancies were noted in the pesticide and PCB analyses.

It should be noted that the laboratory did not report the dual column results and RPDs for the detected pesticide compounds. The validator calculated the dual column RPDs. The following table lists the dual column RPDs which were outside of control limits and the resulting actions.

Sample	Compound	RPD (%)	Actions
EHS-SS-08	4,4'-DDD	47.7	Estimate (J) the positive result for 4,4'-DDD.
EHS-SS-08	Endrin aldehyde Aroclor 1260	98.1 97.1	Results were less than the reporting limit; qualify the results for endrin aldehyde and Aroclor 1260 as nondetect (U) at the reporting limit.
EHS-SS-09	4,4'-DDD	61.0	Result was less than the reporting limit; qualify the result for 4,4'-DDD as nondetect (U) at the reporting limit.
EHS-SS-07	Gamma-chlordane Dieldrin 4,4'-DDD Endrin aldehyde	73.9 68.2 62.2 139.8	Results were less than the reporting limit; qualify the results for gamma-chlordane, dieldrin, 4,4'-DDD, and endrin aldehyde as nondetect (U) at the reporting limit.
EHS-SS-07	4,4'-DDT	66.9	Estimate (J) the positive result for 4,4'-DDT.
BD-1	4,4-DDD	54.7	Result was less than the reporting limit; qualify the result for 4,4'-DDD as nondetect (U) at the reporting limit.
BD-1	Endosulfan sulfate	41.2	Estimate (J) the positive result for endosulfan sulfate.

For Pesticide/PCB %RPDs between 25 and 70%; estimate (J) the positive result.
For Pesticide/PCB %RPDs between 70and 100%; qualify the result as presumptively present (JN).
For pesticide/PCB %RPD >50% and the result < QL; raise the value to the QL and qualify as nondetect (U).
For pesticide/PCB %RPD > 100% and interference is present; qualify the result as presumptively present (JN).
For pesticide/PCB %RPD > 100% and interference is not present; reject (R) result.

Client: GEI Consultants, Inc.

Job Number: 220-8107-1
Sdg Number: 220-8107

Client Sample ID: EHS-SS-07

Lab Sample ID: 220-8107-6
Client Matrix: Solid

% Moisture: 19.2

Date Sampled: 02/18/2009 1105
Date Received: 02/19/2009 1000

8260B Volatile Organic Compounds (GC/MS)

Method: 8260B
Preparation: 5030B
Dilution: 1.0
Date Analyzed: 03/03/2009 1747
Date Prepared: 03/03/2009 1747

Analysis Batch: 220-24788

Instrument ID: HP 5890/5971A GC/MS
Lab File ID: N1687.D
Initial Weight/Volume: 5 g
Final Weight/Volume: 5 mL

Analyte	DryWt Corrected: Y	Result (ug/Kg)	Qualifier	MDL	RL
Acetone		25	U	2.8	25
Benzene		6.2	U	0.71	6.2
Bromodichloromethane		6.2	U	0.37	6.2
Bromoform		6.2	U	0.75	6.2
Bromomethane		6.2	U	2.6	6.2
Methyl Ethyl Ketone		12	U	2.0	12
Carbon disulfide		6.2	U	0.51	6.2
Carbon tetrachloride		6.2	U	1.2	6.2
Chlorobenzene		6.2	U	0.73	6.2
Chloroethane		6.2	U	1.2	6.2
Chloroform		6.2	U	0.42	6.2
Chloromethane		6.2	U	0.96	6.2
Dibromochloromethane		6.2	U	0.43	6.2
1,1-Dichloroethane		6.2	U	0.37	6.2
1,2-Dichloroethane		6.2	U	0.72	6.2
1,1-Dichloroethene		6.2	U	0.72	6.2
1,2-Dichloropropane		6.2	U	0.83	6.2
cis-1,3-Dichloropropene		6.2	U	0.69	6.2
trans-1,3-Dichloropropene		6.2	U	0.33	6.2
Ethylbenzene		6.2	U	0.87	6.2
2-Hexanone		12	U	1.5	12
Methylene Chloride	.25U	~~3.1~~	~~J B~~ /	1.3	25
methyl isobutyl ketone		6.2	U	0.68	6.2
Styrene		6.2	U	0.19	6.2
1,1,2,2-Tetrachloroethane		6.2	U	0.64	6.2
Tetrachloroethene		6.2	U	1.0	6.2
Toluene		6.2	U	0.092	6.2
1,1,1-Trichloroethane		6.2	U	0.66	6.2
1,1,2-Trichloroethane		6.2	U	0.46	6.2
Trichloroethene		6.2	U	1.0	6.2
Vinyl chloride		6.2	U	0.28	6.2
Xylenes, Total		6.2	U	0.60	6.2
cis-1,2-Dichloroethene		6.2	U	0.46	6.2
trans-1,2-Dichloroethene		6.2	U	0.48	6.2

Surrogate	%Rec	Acceptance Limits
1,2-Dichloroethane-d4 (Surr)	91	49 - 134
4-Bromofluorobenzene	87	36 - 133
Dibromofluoromethane	92	60 - 130
Toluene-d8 (Surr)	89	51 - 137

EHM 3/26/09 JC 4/1/09

Client: GEI Consultants, Inc.

Job Number: 220-8107-1
Sdg Number: 220-8107

Client Sample ID: **EHS-SS-07**

Lab Sample ID: 220-8107-6
Client Matrix: Solid
% Moisture: 19.2
Date Sampled: 02/18/2009 1105
Date Received: 02/19/2009 1000

8270C Semivolatile Compounds by Gas Chromatography/Mass Spectrometry (GC/MS)

Method: 8270C
Preparation: 3541
Dilution: 1.0
Date Analyzed: 03/10/2009 2211
Date Prepared: 02/21/2009 0743
Analysis Batch: 220-25046
Prep Batch: 220-24518
Instrument ID: HP 6890/5975
Lab File ID: A4209.D
Initial Weight/Volume: 15.56 g
Final Weight/Volume: 1 mL
Injection Volume: 1.0 uL

Analyte	DryWt Corrected: Y Result (ug/Kg)	Qualifier	MDL	RL
Acenaphthene	320	U	70	320
Acenaphthylene	320	U	74	320
Anthracene	320	U	71	320
Benzo[a]anthracene	180	J J✓	60	320
Benzo[a]pyrene	210	J J✓	45	320
Benzo[b]fluoranthene	240	J J✓	57	320
Benzo[g,h,i]perylene	410		45	320
Benzo[k]fluoranthene	84	J JV	52	320
Bis(2-chloroethoxy)methane	320	U	66	320
Bis(2-chloroethyl)ether	320	U	91	320
Bis(2-ethylhexyl) phthalate	320	U	64	320
Butyl benzyl phthalate	320	U	65	320
Carbazole	320	U	64	320
Chrysene	260	J J✓	68	320
Di-n-butyl phthalate	320	U	75	320
Di-n-octyl phthalate	320	U	57	320
4-Bromophenyl phenyl ether	320	U	59	320
4-Chloroaniline	320	U	52	320
2-Chloronaphthalene	320	U	68	320
4-Chlorophenyl phenyl ether	320	U	68	320
Dibenz(a,h)anthracene	320	U	41	320
Dibenzofuran	320	U	70	320
Diethyl phthalate	320	U	75	320
Dimethyl phthalate	320	U	68	320
1,2-Dichlorobenzene	320	U	64	320
1,3-Dichlorobenzene	320	U	54	320
1,4-Dichlorobenzene	320	U	69	320
3,3'-Dichlorobenzidine	800	U	66	800
2,4-Dinitrotoluene	320	U	61	320
2,6-Dinitrotoluene	320	U	53	320
Fluoranthene	300	J JV	71	320
Fluorene	320	U	73	320
Hexachlorobenzene	320	U	77	320
Hexachlorobutadiene	320	U	68	320
Hexachlorocyclopentadiene	800	U	100	800
Hexachloroethane	320	U	63	320
Indeno[1,2,3-cd]pyrene	400		44	320
Isophorone	320	U	74	320
2-Methylnaphthalene	320	U	74	320
Naphthalene	320	U	70	320
2-Nitroaniline	2000	U	63	2000
3-Nitroaniline	2000	U	61	2000
Nitrobenzene	320	U	78	320
N-Nitrosodi-n-propylamine	320	U	80	320

EHM 3/26/09 JC 4.1.09

Client: GEI Consultants, Inc.

Job Number: 220-8107-1
Sdg Number: 220-8107

Client Sample ID: EHS-SS-07

Lab Sample ID: 220-8107-6
Client Matrix: Solid

% Moisture: 19.2

Date Sampled: 02/18/2009 1105
Date Received: 02/19/2009 1000

8270C Semivolatile Compounds by Gas Chromatography/Mass Spectrometry (GC/MS)

Method: 8270C
Preparation: 3541
Dilution: 1.0
Date Analyzed: 03/10/2009 2211
Date Prepared: 02/21/2009 0743

Analysis Batch: 220-25046
Prep Batch: 220-24518

Instrument ID: HP 6890/5975
Lab File ID: A4209.D
Initial Weight/Volume: 15.56 g
Final Weight/Volume: 1 mL
Injection Volume: 1.0 uL

Analyte	DryWt Corrected: Y Result (ug/Kg)	Qualifier	MDL	RL
N-Nitrosodiphenylamine	320	U	65	320
Phenanthrene	220	J JV	70	320
Pyrene	300	J JV	79	320
1,2,4-Trichlorobenzene	320	U	65	320
4-Chloro-3-methylphenol	320	U	58	320
2-Chlorophenol	320	U	72	320
2-Methylphenol	320	U	58	320
4-Methylphenol	320	U	77	320
2,4-Dichlorophenol	320	U	67	320
2,4-Dimethylphenol	320	U	52	320
2,4-Dinitrophenol	2000	U ✓	440	2000
4,6-Dinitro-2-methylphenol	2000	U	29	2000
2-Nitrophenol	320	U	56	320
4-Nitrophenol	2000	U	72	2000
Pentachlorophenol	2000	U	40	2000
Phenol	320	U	66	320
2,4,5-Trichlorophenol	2000	U	59	2000
2,4,6-Trichlorophenol	320	U	65	320
Benzyl alcohol	320	U	56	320
4-Nitroaniline	320	U	60	320
2,2'-oxybis[1-chloropropane]	320	U	77	320
Atrazine	390	U	71	390
Simazine	390	U	16	390

Surrogate	%Rec	Acceptance Limits
2-Fluorobiphenyl	72	32 - 131
2-Fluorophenol	65	25 - 113
2,4,6-Tribromophenol	60	24 - 150
Nitrobenzene-d5	68	25 - 120
Phenol-d5	65	27 - 122
Terphenyl-d14	65	35 - 140

EMM 3/26/09 JC 4/1/09

Client: GEI Consultants, Inc.

Job Number: 220-8107-1
Sdg Number: 220-8107

Client Sample ID: **EHS-SS-07**

Lab Sample ID: 220-8107-6
Client Matrix: Solid

% Moisture: 19.2

Date Sampled: 02/18/2009 1105
Date Received: 02/19/2009 1000

8082 Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Method: 8082
Preparation: 3550B
Dilution: 1.0
Date Analyzed: 03/09/2009 1619
Date Prepared: 02/19/2009 2010

Analysis Batch: 220-25007
Prep Batch: 220-24485

Instrument ID: HP 5890 with dual ECD
Lab File ID: C4748435.d
Initial Weight/Volume: 30.20 g
Final Weight/Volume: 10 mL
Injection Volume: 1.0 uL
Column ID: PRIMARY

Analyte	DryWt Corrected: Y Result (ug/Kg)	Qualifier	MDL	RL
PCB-1016	21	U	1.6	21
PCB-1221	21	U	1.6	21
PCB-1232	21	U	1.6	21
PCB-1242	21	U	1.6	21
PCB-1248	21	U	1.6	21
PCB-1254	21	U	1.8	21
PCB-1260	180		1.8	21

Surrogate	%Rec	Acceptance Limits
Tetrachloro-m-xylene	127	24 - 154
DCB Decachlorobiphenyl	110	25 - 159

Method: 8082
Preparation: 3550B
Dilution: 1.0
Date Analyzed: 03/09/2009 1619
Date Prepared: 02/19/2009 2010

Analysis Batch: 220-25007
Prep Batch: 220-24485

Instrument ID: HP 5890 with dual ECD
Lab File ID: C4748435.d
Initial Weight/Volume: 30.20 g
Final Weight/Volume: 10 mL
Injection Volume: 1.0 uL
Column ID: SECONDARY

Surrogate	%Rec	Acceptance Limits
Tetrachloro-m-xylene	117	24 - 154
DCB Decachlorobiphenyl	81	25 - 159

Client: GEI Consultants, Inc.

Job Number: 220-8107-1
Sdg Number: 220-8107

Client Sample ID: **EHS-SS-07**

Lab Sample ID: 220-8107-6
Client Matrix: Solid

% Moisture: 19.2

Date Sampled: 02/18/2009 1105
Date Received: 02/19/2009 1000

8081A Organochlorine Pesticides (GC)

Method: 8081A
Preparation: 3550B
Dilution: 1.0
Date Analyzed: 03/05/2009 0201
Date Prepared: 02/19/2009 2010

Analysis Batch: 220-24849
Prep Batch: 220-24485

Instrument ID: HP 6890 dual ECD
Lab File ID: D8365035.D
Initial Weight/Volume: 30.20 g
Final Weight/Volume: 10 mL
Injection Volume: 1.0 uL
Column ID: PRIMARY

Analyte	DryWt Corrected: Y Result (ug/Kg)	Qualifier	MDL	RL
4,4'-DDD	~~1.1~~ 4.1 UJ	J ✓	0.73	4.1
4,4'-DDE	9.4 J ✓		0.82	4.1
4,4'-DDT	16 J ✓		1.0	4.1
Aldrin	2.1	UJ ✓	0.22	2.1
alpha-BHC	2.1	UJ ✓	0.30	2.1
beta-BHC	2.1	UJ ✓	0.46	2.1
delta-BHC	2.1	UJ ✓	0.45	2.1
Dieldrin	~~2.6~~ 4.1 UJ	J ✓	0.70	4.1
Endosulfan I	2.1	UJ ✓	0.36	2.1
Endosulfan II	4.1	UJ ✓	0.76	4.1
Endosulfan sulfate	4.1	UJ ✓	0.73	4.1
Endrin	4.1	UJ ✓	0.76	4.1
Endrin aldehyde	~~1.1~~ 4.1 U	J ✓	0.50	4.1
Endrin ketone	4.1	UJ ✓	0.75	4.1
gamma-BHC (Lindane)	2.1	UJ ✓	0.35	2.1
Heptachlor	2.1	U	0.39	2.1
Heptachlor epoxide	2.1	UJ ✓	0.37	2.1
Methoxychlor	21	U	4.5	21
Toxaphene	100	U	11	100
alpha-Chlordane	2.1	UJ ✓	0.34	2.1
gamma-Chlordane	~~1.0~~ 2.1 UJ	J ✓	0.65	2.1
Methachlor	21	U	3.7	21

Surrogate	%Rec	Acceptance Limits
DCB Decachlorobiphenyl	75	25 - 159
Tetrachloro-m-xylene	63	24 - 154

Method: 8081A
Preparation: 3550B
Dilution: 1.0
Date Analyzed: 03/05/2009 0201
Date Prepared: 02/19/2009 2010

Analysis Batch: 220-24849
Prep Batch: 220-24485

Instrument ID: HP 6890 dual ECD
Lab File ID: D8365035.D
Initial Weight/Volume: 30.20 g
Final Weight/Volume: 10 mL
Injection Volume: 1.0 uL
Column ID: SECONDARY

Surrogate	%Rec	Acceptance Limits
DCB Decachlorobiphenyl	120	25 - 159
Tetrachloro-m-xylene	60	24 - 154

JC 4/1/09

Pam 3/24/09

FORM 1
HERBICIDES ORGANICS ANALYSIS DATA SHEET

STLCTS SAMPLE NO.

EHS-SS-07

Lab Name: TESTAMERICA BURLINGTON Contract: 29001

Lab Code: STLV Case No.: RIVERGEI SAS No.: SDG No.: 22081071

Matrix: (soil/water) SOIL Lab Sample ID: 785227

Sample wt/vol: 50.0 (g/mL) G Lab File ID: 04MA091433-R341

% Moisture: 18 decanted: (Y/N) N Date Received: 02/20/09

Extraction: (SepF/Cont/Sonc) OTHER Date Extracted: 02/21/09

Concentrated Extract Volume: 10(mL) Date Analyzed: 03/05/09

Injection Volume: 1.0(uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH: ___ Sulfur Cleanup: (Y/N) N

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
94-75-7	2,4-D	46	U UJ
93-72-1	2,4,5-TP (Silvex)	4.6	U
93-76-5	2,4,5-T	12	U

FORM I HERBICIDES

EHS 3/26/09 JC 4/1/09

Client: GEI Consultants, Inc.

Job Number: 220-8107-1
Sdg Number: 220-8107

Client Sample ID: EHS-SS-07

Lab Sample ID: 220-8107-6
Client Matrix: Solid

% Moisture: 19.2

Date Sampled: 02/18/2009 1105
Date Received: 02/19/2009 1000

6010B Metals (ICP)

Method: 6010B
Preparation: 3050B
Dilution: 1.0
Date Analyzed: 03/05/2009 1506
Date Prepared: 03/02/2009 1146

Analysis Batch: 220-24866
Prep Batch: 220-24742

Instrument ID: TJA Trace ICAP
Lab File ID: W030509
Initial Weight/Volume: 1.26 g
Final Weight/Volume: 250 mL

Analyte	DryWt Corrected: Y	Result (mg/Kg)	Qualifier	MDL	RL
Silver		0.42	J ✓	0.34	3.7
Aluminum		7850		77.3	123
Arsenic		7.1		0.76	6.1
Barium		30.2		0.27	2.5
Beryllium		0.49	J ✓	0.27	2.5
Calcium		868		13.5	245
Cadmium		6.1	U	0.64	6.1
Cobalt		4.9		0.25	2.5
Chromium		10.1		0.34	3.7
Copper		136		0.74	6.1
Iron		11100		8.6	73.6
Potassium		322		20.9	245
Magnesium		1470		12.3	43.0
Manganese		119		0.25	7.4
Sodium		154	J ✓	13.5	245
Nickel		7.7		0.64	6.1
Lead		36.6		0.52	6.1
Antimony		12.3	U	1.5	12.3
Selenium		12.3	U	1.1	12.3
Thallium		8.6	U	3.8	8.6
Vanadium		19.1		0.22	4.9
Zinc		32.7		1.8	24.5

7471A Mercury (CVAA)

Method: 7471A
Preparation: 7471A
Dilution: 1.0
Date Analyzed: 02/27/2009 1453
Date Prepared: 02/26/2009 1609

Analysis Batch: 220-24727
Prep Batch: 220-24679

Instrument ID: Perkin Elmer FIMS
Lab File ID: N/A
Initial Weight/Volume: 0.62 g
Final Weight/Volume: 50 mL

Analyte	DryWt Corrected: Y	Result (mg/Kg)	Qualifier	MDL	RL
Mercury		0.051	J ✓	0.018	0.060

JC 4/1/09

JM 3/25/09

WET CHEMISTRY

Sample Report Summary

Client Sample No.

EHS-SS-07

Lab Name: TestAmerica Burlington | Contract: 220-8107-1 | SDG No.: 22081071

Lab Code: TALVT | Case No.: RIVERGEI | Lab Sample ID: 785227

Matrix: SOLID | Client: STLCTS | Date Received: 02/20/09

% Solids: 81.7

Method	Parameter	Analytical Run Date	Analytical Batch	Units	DF	RL	Conc.	Qual.
9030B/9034	Acid Soluble Sulfide	02/24/09	BLKSU022409A	mg/Kg	1	17.5	17.5 U	✓
IN623	Solids, Percent	02/23/09	N/A	%	1.0		81.7	

JS 4/1/09 JAM 3/5/09

Client: GEI Consultants, Inc.

Job Number: 220-8107-1
Sdg Number: 220-8107

Client Sample ID: EHS-SS-08

Lab Sample ID: 220-8107-4
Client Matrix: Solid
% Moisture: 23.4
Date Sampled: 02/18/2009 1045
Date Received: 02/19/2009 1000

8260B Volatile Organic Compounds (GC/MS)

Method: 8260B
Preparation: 5030B
Dilution: 1.0
Date Analyzed: 03/03/2009 1651
Date Prepared: 03/03/2009 1651
Analysis Batch: 220-24788
Instrument ID: HP 5890/5971A GC/MS
Lab File ID: N1685.D
Initial Weight/Volume: 5 g
Final Weight/Volume: 5 mL

Analyte	DryWt Corrected: Y	Result (ug/Kg)	Qualifier	MDL	RL
Acetone		26	U	2.9	26
Benzene		6.5	U	0.74	6.5
Bromodichloromethane		6.5	U	0.39	6.5
Bromoform		6.5	U	0.80	6.5
Bromomethane		6.5	U	2.7	6.5
Methyl Ethyl Ketone		13	U	2.1	13
Carbon disulfide		6.5	U	0.54	6.5
Carbon tetrachloride		6.5	U	1.2	6.5
Chlorobenzene		6.5	U	0.77	6.5
Chloroethane		6.5	U	1.3	6.5
Chloroform		6.5	U	0.44	6.5
Chloromethane		6.5	U	1.0	6.5
Dibromochloromethane		6.5	U	0.46	6.5
1,1-Dichloroethane		6.5	U	0.39	6.5
1,2-Dichloroethane		6.5	U	0.76	6.5
1,1-Dichloroethene		6.5	U	0.76	6.5
1,2-Dichloropropane		6.5	U	0.87	6.5
cis-1,3-Dichloropropene		6.5	U	0.73	6.5
trans-1,3-Dichloropropene		6.5	U	0.35	6.5
Ethylbenzene		6.5	U	0.91	6.5
2-Hexanone		13	U	1.6	13
Methylene Chloride		26U ~~2.2~~	~~JB~~ ✓	1.4	26
methyl isobutyl ketone		6.5	U	0.72	6.5
Styrene		6.5	U	0.20	6.5
1,1,2,2-Tetrachloroethane		6.5	U	0.68	6.5
Tetrachloroethene		6.5	U	1.1	6.5
Toluene		6.5	U	0.097	6.5
1,1,1-Trichloroethane		6.5	U	0.69	6.5
1,1,2-Trichloroethane		6.5	U	0.48	6.5
Trichloroethene		6.5	U	1.1	6.5
Vinyl chloride		6.5	U	0.30	6.5
Xylenes, Total		6.5	U	0.63	6.5
cis-1,2-Dichloroethene		6.5	U	0.48	6.5
trans-1,2-Dichloroethene		6.5	U	0.51	6.5

Surrogate	%Rec	Acceptance Limits
1,2-Dichloroethane-d4 (Surr)	90	49 - 134
4-Bromofluorobenzene	87	36 - 133
Dibromofluoromethane	83	60 - 130
Toluene-d8 (Surr)	85	51 - 137

EHM 3/26/09 JC 4/1/09

Client: GEI Consultants, Inc.

Job Number: 220-8107-1
Sdg Number: 220-8107

Client Sample ID: EHS-SS-08

Lab Sample ID: 220-8107-4
Client Matrix: Solid
% Moisture: 23.4
Date Sampled: 02/18/2009 1045
Date Received: 02/19/2009 1000

8270C Semivolatile Compounds by Gas Chromatography/Mass Spectrometry (GC/MS)

Method: 8270C
Preparation: 3541
Dilution: 1.0
Date Analyzed: 03/10/2009 2119
Date Prepared: 02/21/2009 0743
Analysis Batch: 220-25046
Prep Batch: 220-24518
Instrument ID: HP 6890/5975
Lab File ID: A4207.D
Initial Weight/Volume: 15.04 g
Final Weight/Volume: 1 mL
Injection Volume: 1.0 uL

Analyte	DryWt Corrected: Y Result (ug/Kg)	Qualifier	MDL	RL
Acenaphthene	350	U	76	350
Acenaphthylene	350	U	80	350
Anthracene	350	U	78	350
Benzo[a]anthracene	97	J J✓	65	350
Benzo[a]pyrene	90	J J✓	49	350
Benzo[b]fluoranthene	150	J J✓	62	350
Benzo[g,h,i]perylene	410		50	350
Benzo[k]fluoranthene	350	U	56	350
Bis(2-chloroethoxy)methane	350	U	72	350
Bis(2-chloroethyl)ether	350	U	99	350
Bis(2-ethylhexyl) phthalate	350	U	70	350
Butyl benzyl phthalate	350	U	71	350
Carbazole	350	U	70	350
Chrysene	190	J J✓	74	350
Di-n-butyl phthalate	350	U	82	350
Di-n-octyl phthalate	350	U	62	350
4-Bromophenyl phenyl ether	350	U	65	350
4-Chloroaniline	350	U	57	350
2-Chloronaphthalene	350	U	75	350
4-Chlorophenyl phenyl ether	350	U	74	350
Dibenz(a,h)anthracene	350	U	44	350
Dibenzofuran	350	U	77	350
Diethyl phthalate	350	U	82	350
Dimethyl phthalate	350	U	74	350
1,2-Dichlorobenzene	350	U	70	350
1,3-Dichlorobenzene	350	U	58	350
1,4-Dichlorobenzene	350	U	75	350
3,3'-Dichlorobenzidine	870	U	72	870
2,4-Dinitrotoluene	350	U	67	350
2,6-Dinitrotoluene	350	U	58	350
Fluoranthene	140	J J✓	78	350
Fluorene	350	U	80	350
Hexachlorobenzene	350	U	84	350
Hexachlorobutadiene	350	U	75	350
Hexachlorocyclopentadiene	870	U	110	870
Hexachloroethane	350	U	68	350
Indeno[1,2,3-cd]pyrene	390		48	350
Isophorone	350	U	80	350
2-Methylnaphthalene	350	U	80	350
Naphthalene	350	U	77	350
2-Nitroaniline	2200	U	69	2200
3-Nitroaniline	2200	U	66	2200
Nitrobenzene	350	U	85	350
N-Nitrosodi-n-propylamine	350	U	87	350

EMM 3/26/09 JC 4/1/09

Client: GEI Consultants, Inc.

Job Number: 220-8107-1
Sdg Number: 220-8107

Client Sample ID: EHS-SS-08

Lab Sample ID: 220-8107-4
Client Matrix: Solid
% Moisture: 23.4
Date Sampled: 02/18/2009 1045
Date Received: 02/19/2009 1000

8270C Semivolatile Compounds by Gas Chromatography/Mass Spectrometry (GC/MS)

Method: 8270C
Preparation: 3541
Dilution: 1.0
Date Analyzed: 03/10/2009 2119
Date Prepared: 02/21/2009 0743
Analysis Batch: 220-25046
Prep Batch: 220-24518
Instrument ID: HP 6890/5975
Lab File ID: A4207.D
Initial Weight/Volume: 15.04 g
Final Weight/Volume: 1 mL
Injection Volume: 1.0 uL

Analyte	DryWt Corrected: Y Result (ug/Kg)	Qualifier	MDL	RL
N-Nitrosodiphenylamine	350	U	70	350
Phenanthrene	120	J J ✓	76	350
Pyrene	170	J J ✓	86	350
1,2,4-Trichlorobenzene	350	U	71	350
4-Chloro-3-methylphenol	350	U	63	350
2-Chlorophenol	350	U	79	350
2-Methylphenol	350	U	64	350
4-Methylphenol	350	U	84	350
2,4-Dichlorophenol	350	U	73	350
2,4-Dimethylphenol	350	U	57	350
2,4-Dinitrophenol	2200	U ✓	480	2200
4,6-Dinitro-2-methylphenol	2200	U	32	2200
2-Nitrophenol	350	U	61	350
4-Nitrophenol	2200	U	79	2200
Pentachlorophenol	2200	U	43	2200
Phenol	350	U	72	350
2,4,5-Trichlorophenol	2200	U	64	2200
2,4,6-Trichlorophenol	350	U	71	350
Benzyl alcohol	350	U	61	350
4-Nitroaniline	350	U	66	350
2,2'-oxybis[1-chloropropane]	350	U	84	350
Atrazine	430	U	78	430
Simazine	430	U	17	430

Surrogate	%Rec	Acceptance Limits
2-Fluorobiphenyl	67	32 - 131
2-Fluorophenol	64	25 - 113
2,4,6-Tribromophenol	62	24 - 150
Nitrobenzene-d5	64	25 - 120
Phenol-d5	66	27 - 122
Terphenyl-d14	74	35 - 140

EHM 3/26/09 JC 4/1/09

Client: GEI Consultants, Inc.

Job Number: 220-8107-1
Sdg Number: 220-8107

Client Sample ID: **EHS-SS-08**

Lab Sample ID: 220-8107-4
Client Matrix: Solid

% Moisture: 23.4

Date Sampled: 02/18/2009 1045
Date Received: 02/19/2009 1000

8082 Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Method: 8082
Preparation: 3550B
Dilution: 1.0
Date Analyzed: 03/09/2009 1656
Date Prepared: 03/03/2009 0852

Analysis Batch: 220-25007
Prep Batch: 220-24759

Instrument ID: HP 5890 with dual ECD
Lab File ID: C4748437.d
Initial Weight/Volume: 30.01 g
Final Weight/Volume: 10.0 mL
Injection Volume: 1.0 uL
Column ID: PRIMARY

Analyte	DryWt Corrected: Y Result (ug/Kg)	Qualifier	MDL	RL
PCB-1016	22	U	1.7	22
PCB-1221	22	U	1.7	22
PCB-1232	22	U	1.7	22
PCB-1242	22	U	1.7	22
PCB-1248	22	U	1.7	22
PCB-1254	22	U	1.9	22
PCB-1260	~~44~~ 22U	~~J~~ U ✓	1.9	22

Surrogate	%Rec	Acceptance Limits
Tetrachloro-m-xylene	77	24 - 154
DCB Decachlorobiphenyl	77	25 - 159

Method: 8082
Preparation: 3550B
Dilution: 1.0
Date Analyzed: 03/09/2009 1656
Date Prepared: 03/03/2009 0852

Analysis Batch: 220-25007
Prep Batch: 220-24759

Instrument ID: HP 5890 with dual ECD
Lab File ID: C4748437.d
Initial Weight/Volume: 30.01 g
Final Weight/Volume: 10.0 mL
Injection Volume: 1.0 uL
Column ID: SECONDARY

Surrogate	%Rec	Acceptance Limits
Tetrachloro-m-xylene	75	24 - 154
DCB Decachlorobiphenyl	71	25 - 159

JC 4/1/09

Dam 3/24/09

Client: GEI Consultants, Inc.

Job Number: 220-8107-1
Sdg Number: 220-8107

Client Sample ID: **EHS-SS-08**

Lab Sample ID: 220-8107-4
Client Matrix: Solid

% Moisture: 23.4

Date Sampled: 02/18/2009 1045
Date Received: 02/19/2009 1000

8081A Organochlorine Pesticides (GC)

Method: 8081A
Preparation: 3550B
Dilution: 2.0
Date Analyzed: 03/05/2009 0110
Date Prepared: 02/19/2009 2010

Analysis Batch: 220-24849
Prep Batch: 220-24485

Instrument ID: HP 6890 dual ECD
Lab File ID: D8365033.D
Initial Weight/Volume: 30.75 g
Final Weight/Volume: 10 mL
Injection Volume: 1.0 uL
Column ID: PRIMARY

Analyte	DryWt Corrected: Y Result (ug/Kg)	Qualifier	MDL	RL
4,4'-DDD	5.3	J ✓	1.5	8.4
4,4'-DDE	130	J ✓	1.7	8.4
4,4'-DDT	71		2.1	8.4
Aldrin	4.3	UJ ✓	0.46	4.3
alpha-BHC	4.3	U ✓	0.62	4.3
beta-BHC	4.3	U ✓	0.95	4.3
delta-BHC	4.3	U ✓	0.93	4.3
Dieldrin	8.4	U ✓	1.5	8.4
Endosulfan I	4.3	U ✓	0.74	4.3
Endosulfan II	8.4	U ✓	1.6	8.4
Endosulfan sulfate	8.4	U ✓	1.5	8.4
Endrin	8.4	UJ ✓	1.6	8.4
Endrin aldehyde	~~2.5~~ 8.4 U	J ✓	1.0	8.4
Endrin ketone	8.4	UJ ✓	1.5	8.4
gamma-BHC (Lindane)	4.3	UJ ✓	0.73	4.3
Heptachlor	4.3	U	0.81	4.3
Heptachlor epoxide	4.3	UJ ✓	0.77	4.3
Methoxychlor	43	U	9.3	43
Toxaphene	210	U	23	210
alpha-Chlordane	4.3	UJ ✓	0.70	4.3
gamma-Chlordane	4.3	UJ ✓	1.4	4.3
Methachlor	43	U	7.7	43

Surrogate	%Rec	Acceptance Limits
DCB Decachlorobiphenyl	131	25 - 159
Tetrachloro-m-xylene	66	24 - 154

Method: 8081A
Preparation: 3550B
Dilution: 2.0
Date Analyzed: 03/05/2009 0110
Date Prepared: 02/19/2009 2010

Analysis Batch: 220-24849
Prep Batch: 220-24485

Instrument ID: HP 6890 dual ECD
Lab File ID: C8365033.D
Initial Weight/Volume: 30.75 g
Final Weight/Volume: 10 mL
Injection Volume: 1.0 uL
Column ID: SECONDARY

Surrogate	%Rec	Acceptance Limits
DCB Decachlorobiphenyl	117	25 - 159
Tetrachloro-m-xylene	61	24 - 154

JC 4/1/09

3/24/09

FORM 1
HERBICIDES ORGANICS ANALYSIS DATA SHEET

STLCTS SAMPLE NO.

EHS-SS-08

Lab Name: TESTAMERICA BURLINGTON Contract: 29001

Lab Code: STLV Case No.: RIVERGEI SAS No.: SDG No.: 22081071

Matrix: (soil/water) SOIL Lab Sample ID: 785225

Sample wt/vol: 50.0 (g/mL) G Lab File ID: 04MA091433-R321

% Moisture: 24 decanted: (Y/N) N Date Received: 02/20/09

Extraction: (SepF/Cont/Sonc) OTHER Date Extracted: 02/21/09

Concentrated Extract Volume: 10(mL) Date Analyzed: 03/05/09

Injection Volume: 1.0(uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH: ___ Sulfur Cleanup: (Y/N) N

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
94-75-7	2,4-D	50	U UJ
93-72-1	2,4,5-TP (Silvex)	5.0	U
93-76-5	2,4,5-T	12	U

FORM I HERBICIDES

EHM 3/30/09 JC 4/1/09 03/18/2009

Client: GEI Consultants, Inc.

Job Number: 220-8107-1
Sdg Number: 220-8107

Client Sample ID: EHS-SS-08

Lab Sample ID: 220-8107-4
Client Matrix: Solid

% Moisture: 23.4

Date Sampled: 02/18/2009 1045
Date Received: 02/19/2009 1000

6010B Metals (ICP)

Method: 6010B
Preparation: 3050B
Dilution: 1.0
Date Analyzed: 03/05/2009 1448
Date Prepared: 03/02/2009 1145

Analysis Batch: 220-24866
Prep Batch: 220-24742

Instrument ID: TJA Trace ICAP
Lab File ID: W030509
Initial Weight/Volume: 1.20 g
Final Weight/Volume: 250 mL

Analyte	DryWt Corrected: Y	Result (mg/Kg)	Qualifier	MDL	RL
Silver		4.1	U	0.38	4.1
Aluminum		12100		85.7	136
Arsenic		67.8		0.84	6.8
Barium		83.0		0.30	2.7
Beryllium		1.2	J ✓	0.30	2.7
Calcium		2250		15.0	272
Cadmium		6.8	U	0.71	6.8
Cobalt		4.4		0.27	2.7
Chromium		18.8		0.38	4.1
Copper		89.5		0.82	6.8
Iron		19900		9.5	81.6
Potassium		340		23.1	272
Magnesium		1220		13.6	47.6
Manganese		125		0.27	8.2
Sodium		114	J ✓	15.0	272
Nickel		12.2		0.71	6.8
Lead		193		0.57	6.8
Antimony		13.6	U	1.6	13.6
Selenium		6.7	J ✓	1.2	13.6
Thallium		4.3	J ✓	4.2	9.5
Vanadium		34.5		0.24	5.4
Zinc		117		2.0	27.2

7471A Mercury (CVAA)

Method: 7471A
Preparation: 7471A
Dilution: 1.0
Date Analyzed: 02/27/2009 1450
Date Prepared: 02/26/2009 1609

Analysis Batch: 220-24727
Prep Batch: 220-24679

Instrument ID: Perkin Elmer FIMS
Lab File ID: N/A
Initial Weight/Volume: 0.61 g
Final Weight/Volume: 50 mL

Analyte	DryWt Corrected: Y	Result (mg/Kg)	Qualifier	MDL	RL
Mercury		0.27		0.019	0.064

JC 4/1/09 03/18/2009 JAM 3/24/09

WET CHEMISTRY

Sample Report Summary

Client Sample No.

EHS-SS-08

Lab Name: TestAmerica Burlington | Contract: 220-8107-1 | SDG No.: 22081071

Lab Code: TALVT | Case No.: RIVERGEI | Lab Sample ID: 785225

Matrix: SOLID | Client: STLCTS | Date Received: 02/20/09

% Solids: 76.4

Method	Parameter	Analytical Run Date	Analytical Batch	Units	DF	RL	Conc.	Qual.
9030B/9034	Acid Soluble Sulfide	02/24/09	BLKSU022409A	mg/Kg	1	18.8	28.2 U	✓
IN623	Solids, Percent	02/23/09	N/A	%	1.0		76.4	

JK 4/1/09

Jam 3/25/09

Printed on: 02/26/09 02:24 PM 03/18/2009

Client: GEI Consultants, Inc.

Job Number: 220-8107-1
Sdg Number: 220-8107

Client Sample ID: EHS-SS-09

Lab Sample ID: 220-8107-5
Client Matrix: Solid

% Moisture: 17.2

Date Sampled: 02/18/2009 1055
Date Received: 02/19/2009 1000

8260B Volatile Organic Compounds (GC/MS)

Method: 8260B
Preparation: 5030B
Dilution: 1.0
Date Analyzed: 03/03/2009 1719
Date Prepared: 03/03/2009 1719

Analysis Batch: 220-24788

Instrument ID: HP 5890/5971A GC/MS
Lab File ID: N1686.D
Initial Weight/Volume: 5 g
Final Weight/Volume: 5 mL

Analyte	DryWt Corrected: Y	Result (ug/Kg)	Qualifier	MDL	RL
Acetone		24	U	2.7	24
Benzene		6.0	U	0.69	6.0
Bromodichloromethane		6.0	U	0.36	6.0
Bromoform		6.0	U	0.74	6.0
Bromomethane		6.0	U	2.5	6.0
Methyl Ethyl Ketone		12	U	1.9	12
Carbon disulfide		6.0	U	0.50	6.0
Carbon tetrachloride		6.0	U	1.1	6.0
Chlorobenzene		6.0	U	0.71	6.0
Chloroethane		6.0	U	1.2	6.0
Chloroform		6.0	U	0.41	6.0
Chloromethane		6.0	U	0.94	6.0
Dibromochloromethane		6.0	U	0.42	6.0
1,1-Dichloroethane		6.0	U	0.36	6.0
1,2-Dichloroethane		6.0	U	0.70	6.0
1,1-Dichloroethene		6.0	U	0.70	6.0
1,2-Dichloropropane		6.0	U	0.81	6.0
cis-1,3-Dichloropropene		6.0	U	0.68	6.0
trans-1,3-Dichloropropene		6.0	U	0.33	6.0
Ethylbenzene		6.0	U	0.85	6.0
2-Hexanone		12	U	1.4	12
Methylene Chloride	24 V	~~3.4~~	~~JB~~ ✓	1.3	24
methyl isobutyl ketone		6.0	U	0.66	6.0
Styrene		6.0	U	0.18	6.0
1,1,2,2-Tetrachloroethane		6.0	U	0.63	6.0
Tetrachloroethene		6.0	U	0.98	6.0
Toluene		6.0	U	0.089	6.0
1,1,1-Trichloroethane		6.0	U	0.64	6.0
1,1,2-Trichloroethane		6.0	U	0.45	6.0
Trichloroethene		6.0	U	0.98	6.0
Vinyl chloride		6.0	U	0.28	6.0
Xylenes, Total		6.0	U	0.59	6.0
cis-1,2-Dichloroethene		6.0	U	0.45	6.0
trans-1,2-Dichloroethene		6.0	U	0.47	6.0

Surrogate	%Rec	Acceptance Limits
1,2-Dichloroethane-d4 (Surr)	97	49 - 134
4-Bromofluorobenzene	90	36 - 133
Dibromofluoromethane	93	60 - 130
Toluene-d8 (Surr)	93	51 - 137

EMM 3/26/09 JC 4/1/09

Client: GEI Consultants, Inc.

Job Number: 220-8107-1
Sdg Number: 220-8107

Client Sample ID: EHS-SS-09

Lab Sample ID: 220-8107-5
Client Matrix: Solid

% Moisture: 17.2

Date Sampled: 02/18/2009 1055
Date Received: 02/19/2009 1000

8270C Semivolatile Compounds by Gas Chromatography/Mass Spectrometry (GC/MS)

Method: 8270C
Preparation: 3541
Dilution: 1.0
Date Analyzed: 03/10/2009 2145
Date Prepared: 02/21/2009 0743

Analysis Batch: 220-25046
Prep Batch: 220-24518

Instrument ID: HP 6890/5975
Lab File ID: A4208.D
Initial Weight/Volume: 15.13 g
Final Weight/Volume: 1 mL
Injection Volume: 1.0 uL

Analyte	DryWt Corrected: Y	Result (ug/Kg)	Qualifier	MDL	RL
Acenaphthene		320	U	70	320
Acenaphthylene		320	U	74	320
Anthracene		83	J J✓	71	320
Benzo[a]anthracene		320	J J✓	60	320
Benzo[a]pyrene		320	J J✓	45	320
Benzo[b]fluoranthene		330		57	320
Benzo[g,h,i]perylene		490		46	320
Benzo[k]fluoranthene		120	J J✓	52	320
Bis(2-chloroethoxy)methane		320	U	66	320
Bis(2-chloroethyl)ether		320	U	91	320
Bis(2-ethylhexyl) phthalate		320	U	64	320
Butyl benzyl phthalate		320	U	66	320
Carbazole		320	U	64	320
Chrysene		350		69	320
Di-n-butyl phthalate		320	U	76	320
Di-n-octyl phthalate		320	U	57	320
4-Bromophenyl phenyl ether		320	U	59	320
4-Chloroaniline		320	U	53	320
2-Chloronaphthalene		320	U	69	320
4-Chlorophenyl phenyl ether		320	U	68	320
Dibenz(a,h)anthracene		62	J J✓	41	320
Dibenzofuran		320	U	70	320
Diethyl phthalate		320	U	75	320
Dimethyl phthalate		320	U	68	320
1,2-Dichlorobenzene		320	U	65	320
1,3-Dichlorobenzene		320	U	54	320
1,4-Dichlorobenzene		320	U	69	320
3,3'-Dichlorobenzidine		800	U	66	800
2,4-Dinitrotoluene		320	U	61	320
2,6-Dinitrotoluene		320	U	53	320
Fluoranthene		560		72	320
Fluorene		320	U	73	320
Hexachlorobenzene		320	U	77	320
Hexachlorobutadiene		320	U	69	320
Hexachlorocyclopentadiene		800	U	100	800
Hexachloroethane		320	U	63	320
Indeno[1,2,3-cd]pyrene		490		44	320
Isophorone		320	U	74	320
2-Methylnaphthalene		320	U	74	320
Naphthalene		320	U	71	320
2-Nitroaniline		2000	U	63	2000
3-Nitroaniline		2000	U	61	2000
Nitrobenzene		320	U	79	320
N-Nitrosodi-n-propylamine		320	U	80	320

Emm 3/26/09 JC 4/1/09

Client: GEI Consultants, Inc.

Job Number: 220-8107-1
Sdg Number: 220-8107

Client Sample ID: EHS-SS-09

Lab Sample ID: 220-8107-5
Client Matrix: Solid
% Moisture: 17.2
Date Sampled: 02/18/2009 1055
Date Received: 02/19/2009 1000

8270C Semivolatile Compounds by Gas Chromatography/Mass Spectrometry (GC/MS)

Method: 8270C
Preparation: 3541
Dilution: 1.0
Date Analyzed: 03/10/2009 2145
Date Prepared: 02/21/2009 0743
Analysis Batch: 220-25046
Prep Batch: 220-24518
Instrument ID: HP 6890/5975
Lab File ID: A4208.D
Initial Weight/Volume: 15.13 g
Final Weight/Volume: 1 mL
Injection Volume: 1.0 uL

Analyte	DryWt Corrected: Y Result (ug/Kg)	Qualifier	MDL	RL
N-Nitrosodiphenylamine	320	U	65	320
Phenanthrene	480		70	320
Pyrene	560		79	320
1,2,4-Trichlorobenzene	320	U	66	320
4-Chloro-3-methylphenol	320	U	58	320
2-Chlorophenol	320	U	73	320
2-Methylphenol	320	U	58	320
4-Methylphenol	320	U	77	320
2,4-Dichlorophenol	320	U	67	320
2,4-Dimethylphenol	320	U	52	320
2,4-Dinitrophenol	2000	U	440	2000
4,6-Dinitro-2-methylphenol	2000	U	29	2000
2-Nitrophenol	320	U	56	320
4-Nitrophenol	2000	U	72	2000
Pentachlorophenol	2000	U	40	2000
Phenol	320	U	66	320
2,4,5-Trichlorophenol	2000	U	59	2000
2,4,6-Trichlorophenol	320	U	65	320
Benzyl alcohol	320	U	56	320
4-Nitroaniline	320	U	61	320
2,2'-oxybis[1-chloropropane]	320	U	77	320
Atrazine	400	U	72	400
Simazine	400	U	16	400

Surrogate	%Rec	Acceptance Limits
2-Fluorobiphenyl	72	32 - 131
2-Fluorophenol	64	25 - 113
2,4,6-Tribromophenol	66	24 - 150
Nitrobenzene-d5	64	25 - 120
Phenol-d5	63	27 - 122
Terphenyl-d14	72	35 - 140

Client: GEI Consultants, Inc.

Job Number: 220-8107-1
Sdg Number: 220-8107

Client Sample ID: **EHS-SS-09**

Lab Sample ID: 220-8107-5
Client Matrix: Solid

% Moisture: 17.2

Date Sampled: 02/18/2009 1055
Date Received: 02/19/2009 1000

8082 Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Method: 8082
Preparation: 3550B
Dilution: 1.0
Date Analyzed: 03/09/2009 1714
Date Prepared: 03/03/2009 0852

Analysis Batch: 220-25007
Prep Batch: 220-24759

Instrument ID: HP 5890 with dual ECD
Lab File ID: C4748438.d
Initial Weight/Volume: 30.01 g
Final Weight/Volume: 10.0 mL
Injection Volume: 1.0 uL
Column ID: PRIMARY

Analyte	DryWt Corrected: Y Result (ug/Kg)	Qualifier	MDL	RL
PCB-1016	21	U	1.6	21
PCB-1221	21	U	1.6	21
PCB-1232	21	U	1.6	21
PCB-1242	21	U	1.6	21
PCB-1248	21	U	1.6	21
PCB-1254	21	U	1.7	21
PCB-1260	13	J ✓	1.7	21

Surrogate	%Rec	Acceptance Limits
Tetrachloro-m-xylene	82	24 - 154
DCB Decachlorobiphenyl	82	25 - 159

Method: 8082
Preparation: 3550B
Dilution: 1.0
Date Analyzed: 03/09/2009 1714
Date Prepared: 03/03/2009 0852

Analysis Batch: 220-25007
Prep Batch: 220-24759

Instrument ID: HP 5890 with dual ECD
Lab File ID: C4748438.d
Initial Weight/Volume: 30.01 g
Final Weight/Volume: 10.0 mL
Injection Volume: 1.0 uL
Column ID: SECONDARY

Surrogate	%Rec	Acceptance Limits
Tetrachloro-m-xylene	63	24 - 154
DCB Decachlorobiphenyl	70	25 - 159

JAM 3/24/09

Client: GEI Consultants, Inc.

Job Number: 220-8107-1
Sdg Number: 220-8107

Client Sample ID: **EHS-SS-09**

Lab Sample ID: 220-8107-5
Client Matrix: Solid

% Moisture: 17.2

Date Sampled: 02/18/2009 1055
Date Received: 02/19/2009 1000

8081A Organochlorine Pesticides (GC)

Method: 8081A
Preparation: 3550B
Dilution: 1.0
Date Analyzed: 03/05/2009 0136
Date Prepared: 02/19/2009 2010

Analysis Batch: 220-24849
Prep Batch: 220-24485

Instrument ID: HP 6890 dual ECD
Lab File ID: D8365034.D
Initial Weight/Volume: 30.37 g
Final Weight/Volume: 10 mL
Injection Volume: 1.0 uL
Column ID: PRIMARY

Analyte	DryWt Corrected: Y Result (ug/Kg)	Qualifier	MDL	RL
4,4'-DDD	~~4.3~~ 3.9 UJ	J ✓	0.71	3.9
4,4'-DDE	18 J ✓		0.80	3.9
4,4'-DDT	15 J ✓		0.97	3.9
Aldrin	2.0	U J ✓	0.22	2.0
alpha-BHC	2.0	U ✓	0.29	2.0
beta-BHC	2.0	U ✓	0.45	2.0
delta-BHC	2.0	U ✓	0.44	2.0
Dieldrin	3.9	U ✓	0.68	3.9
Endosulfan I	2.0	U ✓	0.35	2.0
Endosulfan II	3.9	U ✓	0.74	3.9
Endosulfan sulfate	3.9	U ✓	0.71	3.9
Endrin	3.9	U J ✓	0.74	3.9
Endrin aldehyde	3.9	U	0.49	3.9
Endrin ketone	3.9	U J ✓	0.72	3.9
gamma-BHC (Lindane)	2.0	U J ✓	0.34	2.0
Heptachlor	2.0	U	0.38	2.0
Heptachlor epoxide	2.0	U J ✓	0.36	2.0
Methoxychlor	20	U	4.4	20
Toxaphene	99	U	11	99
alpha-Chlordane	2.0	U J ✓	0.33	2.0
gamma-Chlordane	2.0	U J ✓	0.63	2.0
Methachlor	20	U	3.6	20

Surrogate	%Rec	Acceptance Limits
DCB Decachlorobiphenyl	54	25 - 159
Tetrachloro-m-xylene	35	24 - 154

Method: 8081A
Preparation: 3550B
Dilution: 1.0
Date Analyzed: 03/05/2009 0136
Date Prepared: 02/19/2009 2010

Analysis Batch: 220-24849
Prep Batch: 220-24485

Instrument ID: HP 6890 dual ECD
Lab File ID: C8365034.D
Initial Weight/Volume: 30.37 g
Final Weight/Volume: 10 mL
Injection Volume: 1.0 uL
Column ID: SECONDARY

Surrogate	%Rec	Acceptance Limits
DCB Decachlorobiphenyl	40	25 - 159
Tetrachloro-m-xylene	35	24 - 154

FORM 1
HERBICIDES ORGANICS ANALYSIS DATA SHEET

STLCTS SAMPLE NO.

EHS-SS-09

Lab Name: TESTAMERICA BURLINGTON Contract: 29001

Lab Code: STLV Case No.: RIVERGEI SAS No.: SDG No.: 22081071

Matrix: (soil/water) SOIL Lab Sample ID: 785226

Sample wt/vol: 50.0 (g/mL) G Lab File ID: 11MA091318-R031

% Moisture: 18 decanted: (Y/N) N Date Received: 02/20/09

Extraction: (SepF/Cont/Sonc) OTHER Date Extracted: 02/21/09

Concentrated Extract Volume: 10(mL) Date Analyzed: 03/11/09

Injection Volume: 1.0(uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH: ___ Sulfur Cleanup: (Y/N) N

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
94-75-7	2,4-D	270	J ✓
93-72-1	2,4,5-TP (Silvex)	4.6	U
93-76-5	2,4,5-T	~~210~~	~~E~~ 230 (2x) J

FORM I HERBICIDES

EHM 3/26/09 JC 4/1/09

FORM 1
HERBICIDES ORGANICS ANALYSIS DATA SHEET

STLCTS SAMPLE NO.

EHS-SS-09DL

Lab Name: TESTAMERICA BURLINGTON Contract: 29001

Lab Code: STLV Case No.: RIVERGEI SAS No.: SDG No.: 22081071

Matrix: (soil/water) SOIL Lab Sample ID: 785226D1

Sample wt/vol: 50.0 (g/mL) G Lab File ID: 11MA091318-R041

% Moisture: 18 decanted: (Y/N) N Date Received: 02/20/09

Extraction: (SepF/Cont/Sonc) OTHER Date Extracted: 02/21/09

Concentrated Extract Volume: 10(mL) Date Analyzed: 03/11/09

Injection Volume: 1.0(uL) Dilution Factor: 2.0

GPC Cleanup: (Y/N) N pH: ___ Sulfur Cleanup: (Y/N) N

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q	
94-75-7	2,4-D	280	D J	
93-72-1	2,4,5-TP (Silvex)	9.3	U	
93-76-5	2,4,5-T	230	D J	✓

FORM I HERBICIDES

EHM 3/26/09

JC 4/1/09

Analytical Data

Client: GEI Consultants, Inc.

Job Number: 220-8107-1
Sdg Number: 220-8107

Client Sample ID: EHS-SS-09

Lab Sample ID: 220-8107-5
Client Matrix: Solid

% Moisture: 17.2

Date Sampled: 02/18/2009 1055
Date Received: 02/19/2009 1000

6010B Metals (ICP)

Method: 6010B
Preparation: 3050B
Dilution: 1.0
Date Analyzed: 03/05/2009 1500
Date Prepared: 03/02/2009 1145

Analysis Batch: 220-24866
Prep Batch: 220-24742

Instrument ID: TJA Trace ICAP
Lab File ID: W030509
Initial Weight/Volume: 1.27 g
Final Weight/Volume: 250 mL

Analyte	DryWt Corrected: Y	Result (mg/Kg)	Qualifier	MDL	RL
Silver		3.6	U	0.33	3.6
Aluminum		7580		74.9	119
Arsenic		12.3		0.74	5.9
Barium		22.8		0.26	2.4
Beryllium		0.38	J	0.26	2.4
Calcium		873		13.1	238
Cadmium		5.9	U	0.62	5.9
Cobalt		3.1		0.24	2.4
Chromium		9.7		0.33	3.6
Copper		24.0		0.71	5.9
Iron		10500		8.3	71.4
Potassium		356		20.2	238
Magnesium		1490		11.9	41.6
Manganese		114		0.24	7.1
Sodium		262		13.1	238
Nickel		6.2		0.62	5.9
Lead		25.4		0.50	5.9
Antimony		11.9	U	1.4	11.9
Selenium		11.9	U	1.1	11.9
Thallium		8.3	U	3.7	8.3
Vanadium		17.1		0.21	4.8
Zinc		31.9		1.8	23.8

7471A Mercury (CVAA)

Method: 7471A
Preparation: 7471A
Dilution: 1.0
Date Analyzed: 02/27/2009 1452
Date Prepared: 02/26/2009 1609

Analysis Batch: 220-24727
Prep Batch: 220-24679

Instrument ID: Perkin Elmer FIMS
Lab File ID: N/A
Initial Weight/Volume: 0.60 g
Final Weight/Volume: 50 mL

Analyte	DryWt Corrected: Y	Result (mg/Kg)	Qualifier	MDL	RL
Mercury		0.039	J	0.018	0.060

4/1/09 03/18/2009 3/25/09

WET CHEMISTRY

Sample Report Summary

Client Sample No.

EHS-SS-09

Lab Name: TestAmerica Burlington | Contract: 220-8107-1 | SDG No.: 22081071

Lab Code: TALVT | Case No.: RIVERGEI | Lab Sample ID: 785226

Matrix: SOLID | Client: STLCTS | Date Received: 02/20/09

% Solids: 82.5

Method	Parameter	Analytical Run Date	Analytical Batch	Units	DF	RL	Conc.	Qual.
9030B/9034	Acid Soluble Sulfide	02/24/09	BLKSU022409A	mg/Kg	1	18.0	18.0	U
IN623	Solids, Percent	02/23/09	N/A	%	1.0		82.5	

JC 4/1/09 Jam 3/25/09

Printed on: 02/26/09 02:24 PM 03/18/2009

Duplicate of
EHS-55-09

Analytical Data

Client: GEI Consultants, Inc.

Job Number: 220-8107-1
Sdg Number: 220-8107

Client Sample ID: BD-1

Lab Sample ID: 220-8107-7
Client Matrix: Solid

% Moisture: 16.4

Date Sampled: 02/18/2009 0000
Date Received: 02/19/2009 1000

8260B Volatile Organic Compounds (GC/MS)

Method: 8260B
Preparation: 5030B
Dilution: 1.0
Date Analyzed: 03/03/2009 1815
Date Prepared: 03/03/2009 1815

Analysis Batch: 220-24788

Instrument ID: HP 5890/5971A GC/MS
Lab File ID: N1688.D
Initial Weight/Volume: 5 g
Final Weight/Volume: 5 mL

Analyte	DryWt Corrected: Y	Result (ug/Kg)	Qualifier	MDL	RL
Acetone		24	U	2.7	24
Benzene		6.0	U	0.68	6.0
Bromodichloromethane		6.0	U	0.36	6.0
Bromoform		6.0	U	0.73	6.0
Bromomethane		6.0	U	2.5	6.0
Methyl Ethyl Ketone		12	U	1.9	12
Carbon disulfide		6.0	U	0.49	6.0
Carbon tetrachloride		6.0	U	1.1	6.0
Chlorobenzene		6.0	U	0.71	6.0
Chloroethane		6.0	U	1.2	6.0
Chloroform		6.0	U	0.41	6.0
Chloromethane		6.0	U	0.93	6.0
Dibromochloromethane		6.0	U	0.42	6.0
1,1-Dichloroethane		6.0	U	0.36	6.0
1,2-Dichloroethane		6.0	U	0.69	6.0
1,1-Dichloroethene		6.0	U	0.69	6.0
1,2-Dichloropropane		6.0	U	0.80	6.0
cis-1,3-Dichloropropene		6.0	U	0.67	6.0
trans-1,3-Dichloropropene		6.0	U	0.32	6.0
Ethylbenzene		6.0	U	0.84	6.0
2-Hexanone		12	U	1.4	12
Methylene Chloride		~~3.4~~ 24U	~~JB~~ ✓	1.3	24
methyl isobutyl ketone		6.0	U	0.66	6.0
Styrene		6.0	U	0.18	6.0
1,1,2,2-Tetrachloroethane		6.0	U	0.62	6.0
Tetrachloroethene		6.0	U	0.97	6.0
Toluene		6.0	U	0.089	6.0
1,1,1-Trichloroethane		6.0	U	0.63	6.0
1,1,2-Trichloroethane		6.0	U	0.44	6.0
Trichloroethene		6.0	U	0.97	6.0
Vinyl chloride		6.0	U	0.28	6.0
Xylenes, Total		6.0	U	0.58	6.0
cis-1,2-Dichloroethene		6.0	U	0.44	6.0
trans-1,2-Dichloroethene		6.0	U	0.47	6.0

Surrogate	%Rec	Acceptance Limits
1,2-Dichloroethane-d4 (Surr)	85	49 - 134
4-Bromofluorobenzene	83	36 - 133
Dibromofluoromethane	84	60 - 130
Toluene-d8 (Surr)	84	51 - 137

EMM 3/26/09 JC 4/1/09

Duplicate of
EHS-55-09

Analytical Data

Client: GEI Consultants, Inc.

Job Number: 220-8107-1
Sdg Number: 220-8107

Client Sample ID: **BD-1**

Lab Sample ID: 220-8107-7
Client Matrix: Solid
% Moisture: 16.4
Date Sampled: 02/18/2009 0000
Date Received: 02/19/2009 1000

8270C Semivolatile Compounds by Gas Chromatography/Mass Spectrometry (GC/MS)

Method: 8270C
Preparation: 3541
Dilution: 1.0
Date Analyzed: 03/10/2009 2237
Date Prepared: 02/21/2009 0743
Analysis Batch: 220-25046
Prep Batch: 220-24518
Instrument ID: HP 6890/5975
Lab File ID: A4210.D
Initial Weight/Volume: 15.19 g
Final Weight/Volume: 1 mL
Injection Volume: 1.0 uL

Analyte	DryWt Corrected: Y Result (ug/Kg)	Qualifier	MDL	RL
Acenaphthene	320	U	69	320
Acenaphthylene	320	U	73	320
Anthracene	320	U	70	320
Benzo[a]anthracene	170	J J ✓	59	320
Benzo[a]pyrene	200	J J ✓	44	320
Benzo[b]fluoranthene	220	J J ✓	57	320
Benzo[g,h,i]perylene	380		45	320
Benzo[k]fluoranthene	84	J J ✓	51	320
Bis(2-chloroethoxy)methane	320	U	66	320
Bis(2-chloroethyl)ether	320	U	90	320
Bis(2-ethylhexyl) phthalate	320	U	63	320
Butyl benzyl phthalate	320	U	65	320
Carbazole	320	U	63	320
Chrysene	210	J J ✓	68	320
Di-n-butyl phthalate	320	U	75	320
Di-n-octyl phthalate	320	U	56	320
4-Bromophenyl phenyl ether	320	U	59	320
4-Chloroaniline	320	U	52	320
2-Chloronaphthalene	320	U	68	320
4-Chlorophenyl phenyl ether	320	U	67	320
Dibenz(a,h)anthracene	320	U	40	320
Dibenzofuran	320	U	69	320
Diethyl phthalate	320	U	74	320
Dimethyl phthalate	320	U	67	320
1,2-Dichlorobenzene	320	U	64	320
1,3-Dichlorobenzene	320	U	53	320
1,4-Dichlorobenzene	320	U	68	320
3,3'-Dichlorobenzidine	790	U	66	790
2,4-Dinitrotoluene	320	U	60	320
2,6-Dinitrotoluene	320	U	53	320
Fluoranthene	300	J J ✓	71	320
Fluorene	320	U	72	320
Hexachlorobenzene	320	U	76	320
Hexachlorobutadiene	320	U	68	320
Hexachlorocyclopentadiene	790	U	99	790
Hexachloroethane	320	U	62	320
Indeno[1,2,3-cd]pyrene	380		44	320
Isophorone	320	U	73	320
2-Methylnaphthalene	320	U	73	320
Naphthalene	320	U	70	320
2-Nitroaniline	2000	U	63	2000
3-Nitroaniline	2000	U	60	2000
Nitrobenzene	320	U	78	320
N-Nitrosodi-n-propylamine	320	U	79	320

EHM 3/26/09 JC 4/1/09

Duplicate of EHS-SS-09

Analytical Data

Client: GEI Consultants, Inc.

Job Number: 220-8107-1
Sdg Number: 220-8107

Client Sample ID: BD-1

Lab Sample ID: 220-8107-7
Client Matrix: Solid

% Moisture: 16.4

Date Sampled: 02/18/2009 0000
Date Received: 02/19/2009 1000

8270C Semivolatile Compounds by Gas Chromatography/Mass Spectrometry (GC/MS)

Method: 8270C
Preparation: 3541
Dilution: 1.0
Date Analyzed: 03/10/2009 2237
Date Prepared: 02/21/2009 0743

Analysis Batch: 220-25046
Prep Batch: 220-24518

Instrument ID: HP 6890/5975
Lab File ID: A4210.D
Initial Weight/Volume: 15.19 g
Final Weight/Volume: 1 mL
Injection Volume: 1.0 uL

Analyte	DryWt Corrected: Y Result (ug/Kg)	Qualifier	MDL	RL
N-Nitrosodiphenylamine	320	U	64	320
Phenanthrene	190	J JV	69	320
Pyrene	260	J JV	78	320
1,2,4-Trichlorobenzene	320	U	65	320
4-Chloro-3-methylphenol	320	U	57	320
2-Chlorophenol	320	U	72	320
2-Methylphenol	320	U	58	320
4-Methylphenol	320	U	76	320
2,4-Dichlorophenol	320	U	66	320
2,4-Dimethylphenol	320	U	52	320
2,4-Dinitrophenol	2000	U	430	2000
4,6-Dinitro-2-methylphenol	2000	U	29	2000
2-Nitrophenol	320	U	56	320
4-Nitrophenol	2000	U	71	2000
Pentachlorophenol	2000	U	39	2000
Phenol	320	U	65	320
2,4,5-Trichlorophenol	2000	U	59	2000
2,4,6-Trichlorophenol	320	U	64	320
Benzyl alcohol	320	U	55	320
4-Nitroaniline	320	U	60	320
2,2'-oxybis[1-chloropropane]	320	U	76	320
Atrazine	390	U	71	390
Simazine	390	U	16	390

Surrogate	%Rec	Acceptance Limits
2-Fluorobiphenyl	74	32 - 131
2-Fluorophenol	67	25 - 113
2,4,6-Tribromophenol	69	24 - 150
Nitrobenzene-d5	67	25 - 120
Phenol-d5	66	27 - 122
Terphenyl-d14	65	35 - 140

Duplicate of
EHS-SS-09

Analytical Data

Client: GEI Consultants, Inc.

Job Number: 220-8107-1
Sdg Number: 220-8107

Client Sample ID: **BD-1**

Lab Sample ID: 220-8107-7
Client Matrix: Solid

% Moisture: 16.4

Date Sampled: 02/18/2009 0000
Date Received: 02/19/2009 1000

8082 Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Method: 8082
Preparation: 3550B
Dilution: 1.0
Date Analyzed: 03/09/2009 1637
Date Prepared: 02/19/2009 2010

Analysis Batch: 220-25007
Prep Batch: 220-24485

Instrument ID: HP 5890 with dual ECD
Lab File ID: C4748436.d
Initial Weight/Volume: 30.54 g
Final Weight/Volume: 10 mL
Injection Volume: 1.0 uL
Column ID: PRIMARY

Analyte	DryWt Corrected: Y Result (ug/Kg)	Qualifier	MDL	RL
PCB-1016	20	U	1.5	20
PCB-1221	20	U	1.5	20
PCB-1232	20	U	1.5	20
PCB-1242	20	U	1.5	20
PCB-1248	20	U	1.5	20
PCB-1254	20	U	1.7	20
PCB-1260	19	J ✓	1.7	20

Surrogate	%Rec	Acceptance Limits
Tetrachloro-m-xylene	158 *	24 - 154
DCB Decachlorobiphenyl	115	25 - 159

Method: 8082
Preparation: 3550B
Dilution: 1.0
Date Analyzed: 03/09/2009 1637
Date Prepared: 02/19/2009 2010

Analysis Batch: 220-25007
Prep Batch: 220-24485

Instrument ID: HP 5890 with dual ECD
Lab File ID: C4748436.d
Initial Weight/Volume: 30.54 g
Final Weight/Volume: 10 mL
Injection Volume: 1.0 uL
Column ID: SECONDARY

Surrogate	%Rec	Acceptance Limits
Tetrachloro-m-xylene	133	24 - 154
DCB Decachlorobiphenyl	108	25 - 159

JC 4/1/09

JAm 3/24/09

Duplicate of EHS-SS-09

Analytical Data

Job Number: 220-8107-1
Sdg Number: 220-8107

Client: GEI Consultants, Inc.

Client Sample ID: **BD-1**

Lab Sample ID: 220-8107-7
Client Matrix: Solid

% Moisture: 16.4

Date Sampled: 02/18/2009 0000
Date Received: 02/19/2009 1000

8081A Organochlorine Pesticides (GC)

Method: 8081A
Preparation: 3550B
Dilution: 1.0
Date Analyzed: 03/05/2009 0227
Date Prepared: 02/19/2009 2010

Analysis Batch: 220-24849
Prep Batch: 220-24485

Instrument ID: HP 6890 dual ECD
Lab File ID: D8365036.D
Initial Weight/Volume: 30.54 g
Final Weight/Volume: 10 mL
Injection Volume: 1.0 uL
Column ID: PRIMARY

Analyte	DryWt Corrected: Y Result (ug/Kg)	Qualifier	MDL	RL
4,4'-DDD	~~2.6~~ 3.9 UJ	J ✓	0.70	3.9
4,4'-DDE	33 J ✓		0.79	3.9
4,4'-DDT	31 J ✓		0.95	3.9
Aldrin	2.0	UJ ✓	0.21	2.0
alpha-BHC	2.0	UJ ✓	0.29	2.0
beta-BHC	2.0	UJ ✓	0.44	2.0
delta-BHC	2.0	UJ ✓	0.43	2.0
Dieldrin	0.93	J ✓	0.67	3.9
Endosulfan I	2.0	UJ ✓	0.34	2.0
Endosulfan II	3.9	UJ ✓	0.73	3.9
Endosulfan sulfate	2.1	J ✓	0.70	3.9
Endrin	3.9	UJ ✓	0.73	3.9
Endrin aldehyde	3.9	U	0.48	3.9
Endrin ketone	3.9	UJ ✓	0.71	3.9
gamma-BHC (Lindane)	2.0	UJ ✓	0.34	2.0
Heptachlor	0.53	J ✓	0.38	2.0
Heptachlor epoxide	0.70	J ✓	0.35	2.0
Methoxychlor	20	U	4.3	20
Toxaphene	98	U	11	98
alpha-Chlordane	2.0	UJ ✓	0.32	2.0
gamma-Chlordane	2.0	UJ ✓	0.62	2.0
Methachlor	20	U	3.5	20

Surrogate	%Rec	Acceptance Limits
DCB Decachlorobiphenyl	116	25 - 159
Tetrachloro-m-xylene	73	24 - 154

Method: 8081A
Preparation: 3550B
Dilution: 1.0
Date Analyzed: 03/05/2009 0227
Date Prepared: 02/19/2009 2010

Analysis Batch: 220-24849
Prep Batch: 220-24485

Instrument ID: HP 6890 dual ECD
Lab File ID: C8365036.D
Initial Weight/Volume: 30.54 g
Final Weight/Volume: 10 mL
Injection Volume: 1.0 uL
Column ID: SECONDARY

Surrogate	%Rec	Acceptance Limits
DCB Decachlorobiphenyl	91	25 - 159
Tetrachloro-m-xylene	72	24 - 154

Duplicate of EHS-5509

FORM 1
HERBICIDES ORGANICS ANALYSIS DATA SHEET

STLCTS SAMPLE NO.

BD-1

Lab Name: TESTAMERICA BURLINGTON Contract: 29001

Lab Code: STLV Case No.: RIVERGEI SAS No.: SDG No.: 22081071

Matrix: (soil/water) SOIL Lab Sample ID: 785228

Sample wt/vol: 50.0 (g/mL) G Lab File ID: 04MA091433-R351

% Moisture: 17 decanted: (Y/N) N Date Received: 02/20/09

Extraction: (SepF/Cont/Sonc) OTHER Date Extracted: 02/21/09

Concentrated Extract Volume: 10(mL) Date Analyzed: 03/05/09

Injection Volume: 1.0(uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH: ___ Sulfur Cleanup: (Y/N) N

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
94-75-7	2,4-D	46	U UJ
93-72-1	2,4,5-TP (Silvex)	4.6	U
93-76-5	2,4,5-T	11	U UJ

Duplicate of EHS-SS-09

Analytical Data

Client: GEI Consultants, Inc.

Job Number: 220-8107-1
Sdg Number: 220-8107

Client Sample ID: BD-1

Lab Sample ID: 220-8107-7
Client Matrix: Solid

% Moisture: 16.4

Date Sampled: 02/18/2009 0000
Date Received: 02/19/2009 1000

6010B Metals (ICP)

Method: 6010B
Preparation: 3050B
Dilution: 1.0
Date Analyzed: 03/05/2009 1342
Date Prepared: 03/03/2009 1225

Analysis Batch: 220-24866
Prep Batch: 220-24766

Instrument ID: TJA Trace ICAP
Lab File ID: W030509
Initial Weight/Volume: 1.11 g
Final Weight/Volume: 250 mL

Analyte	DryWt Corrected: Y	Result (mg/Kg)	Qualifier	MDL	RL
Silver		4.0	U	0.38	4.0
Aluminum		6980		84.9	135
Arsenic		8.7		0.84	6.7
Barium		20.8		0.30	2.7
Beryllium		0.43	J ✓	0.30	2.7
Calcium		721		14.8	270
Cadmium		6.7	U	0.70	6.7
Cobalt		3.1		0.27	2.7
Chromium		8.9		0.38	4.0
Copper		20.2		0.81	6.7
Iron		13100		9.4	80.9
Potassium		331		22.9	270
Magnesium		1380		13.5	47.2
Manganese		124		0.27	8.1
Sodium		207	✓	14.8	270
Nickel		6.0	✓	0.70	6.7
Lead		22.6		0.57	6.7
Antimony		13.5	U	1.6	13.5
Selenium		13.5	U	1.2	13.5
Thallium		9.4	U	4.2	9.4
Vanadium		16.7		0.24	5.4
Zinc		26.7	✓	2.0	27.0

7471A Mercury (CVAA)

Method: 7471A
Preparation: 7471A
Dilution: 1.0
Date Analyzed: 02/27/2009 1454
Date Prepared: 02/26/2009 1609

Analysis Batch: 220-24727
Prep Batch: 220-24679

Instrument ID: Perkin Elmer FIMS
Lab File ID: N/A
Initial Weight/Volume: 0.65 g
Final Weight/Volume: 50 mL

Analyte	DryWt Corrected: Y	Result (mg/Kg)	Qualifier	MDL	RL
Mercury		0.068		0.016	0.055

JC 4/1/09

JAM 3/26/09

Duplicate of EHS-SS-09

WET CHEMISTRY

Sample Report Summary

Client Sample No.: BD-1

Lab Name: TestAmerica Burlington | Contract: 220-8107-1 | SDG No.: 22081071

Lab Code: TALVT | Case No.: RIVERGEI | Lab Sample ID: 785228

Matrix: SOLID | Client: STLCTS | Date Received: 02/20/09

% Solids: 83.2

Method	Parameter	Analytical Run Date	Analytical Batch	Units	DF	RL	Conc.	Qual.
9030B/9034	Acid Soluble Sulfide	02/24/09	BLKSU022409A	mg/Kg	1	16.7	16.7	U
IN623	Solids, Percent	02/23/09	N/A	%	1.0		83.2	

JL 4/1/09

JM 3/25/09

Printed on: 02/26/09 02:24 PM 03/18/2009

Client: GEI Consultants, Inc.

Job Number: 220-8107-1
Sdg Number: 220-8107

Client Sample ID: EHS-SS-10

Lab Sample ID: 220-8107-3
Client Matrix: Solid

% Moisture: 18.2

Date Sampled: 02/18/2009 1035
Date Received: 02/19/2009 1000

8260B Volatile Organic Compounds (GC/MS)

Method: 8260B
Preparation: 5030B
Dilution: 1.0
Date Analyzed: 03/03/2009 1623
Date Prepared: 03/03/2009 1623

Analysis Batch: 220-24788

Instrument ID: HP 5890/5971A GC/MS
Lab File ID: N1684.D
Initial Weight/Volume: 5 g
Final Weight/Volume: 5 mL

Analyte	DryWt Corrected: Y	Result (ug/Kg)	Qualifier	MDL	RL
Acetone		24	U	2.7	24
Benzene		6.1	U	0.70	6.1
Bromodichloromethane		6.1	U	0.37	6.1
Bromoform		6.1	U	0.75	6.1
Bromomethane		6.1	U	2.5	6.1
Methyl Ethyl Ketone		12	U	1.9	12
Carbon disulfide		6.1	U	0.50	6.1
Carbon tetrachloride		6.1	U	1.2	6.1
Chlorobenzene		6.1	U	0.72	6.1
Chloroethane		6.1	U	1.2	6.1
Chloroform		6.1	U	0.42	6.1
Chloromethane		6.1	U	0.95	6.1
Dibromochloromethane		6.1	U	0.43	6.1
1,1-Dichloroethane		6.1	U	0.37	6.1
1,2-Dichloroethane		6.1	U	0.71	6.1
1,1-Dichloroethene		6.1	U	0.71	6.1
1,2-Dichloropropane		6.1	U	0.82	6.1
cis-1,3-Dichloropropene		6.1	U	0.68	6.1
trans-1,3-Dichloropropene		6.1	U	0.33	6.1
Ethylbenzene		6.1	U	0.86	6.1
2-Hexanone		12	U	1.5	12
Methylene Chloride	24 V	~~2.8~~	~~J B~~ ✓	1.3	24
methyl isobutyl ketone		6.1	U	0.67	6.1
Styrene		6.1	U	0.18	6.1
1,1,2,2-Tetrachloroethane		6.1	U	0.64	6.1
Tetrachloroethene		6.1	U	0.99	6.1
Toluene		6.1	U	0.090	6.1
1,1,1-Trichloroethane		6.1	U	0.65	6.1
1,1,2-Trichloroethane		6.1	U	0.45	6.1
Trichloroethene		6.1	U	0.99	6.1
Vinyl chloride		6.1	U	0.28	6.1
Xylenes, Total		6.1	U	0.59	6.1
cis-1,2-Dichloroethene		6.1	U	0.45	6.1
trans-1,2-Dichloroethene		6.1	U	0.48	6.1

Surrogate	%Rec	Acceptance Limits
1,2-Dichloroethane-d4 (Surr)	89	49 - 134
4-Bromofluorobenzene	83	36 - 133
Dibromofluoromethane	86	60 - 130
Toluene-d8 (Surr)	86	51 - 137

EHM 3/26/09 JC 4/1/09

Client: GEI Consultants, Inc.

Job Number: 220-8107-1
Sdg Number: 220-8107

Client Sample ID: EHS-SS-10

Lab Sample ID: 220-8107-3
Client Matrix: Solid

% Moisture: 18.2

Date Sampled: 02/18/2009 1035
Date Received: 02/19/2009 1000

8270C Semivolatile Compounds by Gas Chromatography/Mass Spectrometry (GC/MS)

Method: 8270C
Preparation: 3541
Dilution: 1.0
Date Analyzed: 03/10/2009 2053
Date Prepared: 02/21/2009 0743

Analysis Batch: 220-25046
Prep Batch: 220-24518

Instrument ID: HP 6890/5975
Lab File ID: A4206.D
Initial Weight/Volume: 15.14 g
Final Weight/Volume: 1 mL
Injection Volume: 1.0 uL

Analyte	DryWt Corrected: Y Result (ug/Kg)	Qualifier	MDL	RL
Acenaphthene	330	U	71	330
Acenaphthylene	330	U	75	330
Anthracene	330	U	72	330
Benzo[a]anthracene	81	J J✓	61	330
Benzo[a]pyrene	93	J J✓	45	330
Benzo[b]fluoranthene	110	J J✓	58	330
Benzo[g,h,i]perylene	390		46	330
Benzo[k]fluoranthene	330	U	52	330
Bis(2-chloroethoxy)methane	330	U	67	330
Bis(2-chloroethyl)ether	330	U	92	330
Bis(2-ethylhexyl) phthalate	330	U	65	330
Butyl benzyl phthalate	330	U	66	330
Carbazole	330	U	65	330
Chrysene	100	J J✓	69	330
Di-n-butyl phthalate	330	U	76	330
Di-n-octyl phthalate	330	U	58	330
4-Bromophenyl phenyl ether	330	U	60	330
4-Chloroaniline	330	U	53	330
2-Chloronaphthalene	330	U	70	330
4-Chlorophenyl phenyl ether	330	U	69	330
Dibenz(a,h)anthracene	330	U	41	330
Dibenzofuran	330	U	71	330
Diethyl phthalate	330	U	76	330
Dimethyl phthalate	330	U	69	330
1,2-Dichlorobenzene	330	U	65	330
1,3-Dichlorobenzene	330	U	54	330
1,4-Dichlorobenzene	330	U	70	330
3,3'-Dichlorobenzidine	810	U	67	810
2,4-Dinitrotoluene	330	U	62	330
2,6-Dinitrotoluene	330	U	54	330
Fluoranthene	160	J J✓	73	330
Fluorene	330	U	74	330
Hexachlorobenzene	330	U	78	330
Hexachlorobutadiene	330	U	69	330
Hexachlorocyclopentadiene	810	U	100	810
Hexachloroethane	330	U	64	330
Indeno[1,2,3-cd]pyrene	370		45	330
Isophorone	330	U	75	330
2-Methylnaphthalene	330	U	75	330
Naphthalene	330	U	71	330
2-Nitroaniline	2100	U	64	2100
3-Nitroaniline	2100	U	62	2100
Nitrobenzene	330	U	79	330
N-Nitrosodi-n-propylamine	330	U	81	330

EMM 3/26/09 JC 4/1/09

Client: GEI Consultants, Inc.

Job Number: 220-8107-1
Sdg Number: 220-8107

Client Sample ID: EHS-SS-10

Lab Sample ID: 220-8107-3
Client Matrix: Solid

% Moisture: 18.2

Date Sampled: 02/18/2009 1035
Date Received: 02/19/2009 1000

8270C Semivolatile Compounds by Gas Chromatography/Mass Spectrometry (GC/MS)

Method: 8270C
Preparation: 3541
Dilution: 1.0
Date Analyzed: 03/10/2009 2053
Date Prepared: 02/21/2009 0743

Analysis Batch: 220-25046
Prep Batch: 220-24518

Instrument ID: HP 6890/5975
Lab File ID: A4206.D
Initial Weight/Volume: 15.14 g
Final Weight/Volume: 1 mL
Injection Volume: 1.0 uL

Analyte	DryWt Corrected: Y Result (ug/Kg)	Qualifier	MDL	RL
N-Nitrosodiphenylamine	330	U	66	330
Phenanthrene	130	J J ✓	71	330
Pyrene	190	J J ✓	80	330
1,2,4-Trichlorobenzene	330	U	66	330
4-Chloro-3-methylphenol	330	U	59	330
2-Chlorophenol	330	U	74	330
2-Methylphenol	330	U	59	330
4-Methylphenol	330	U	78	330
2,4-Dichlorophenol	330	U	68	330
2,4-Dimethylphenol	330	U	53	330
2,4-Dinitrophenol	2100	U ✓	440	2100
4,6-Dinitro-2-methylphenol	2100	U	30	2100
2-Nitrophenol	330	U	57	330
4-Nitrophenol	2100	U	73	2100
Pentachlorophenol	2100	U	40	2100
Phenol	330	U	67	330
2,4,5-Trichlorophenol	2100	U	60	2100
2,4,6-Trichlorophenol	330	U	66	330
Benzyl alcohol	330	U	57	330
4-Nitroaniline	330	U	61	330
2,2'-oxybis[1-chloropropane]	330	U	78	330
Atrazine	400	U	72	400
Simazine	400	U	16	400

Surrogate	%Rec	Acceptance Limits
2-Fluorobiphenyl	61	32 - 131
2-Fluorophenol	63	25 - 113
2,4,6-Tribromophenol	61	24 - 150
Nitrobenzene-d5	60	25 - 120
Phenol-d5	63	27 - 122
Terphenyl-d14	76	35 - 140

EMM 3/26/09 JC 4/1/09

Client: GEI Consultants, Inc.

Job Number: 220-8107-1
Sdg Number: 220-8107

Client Sample ID: **EHS-SS-10**

Lab Sample ID: 220-8107-3
Client Matrix: Solid

% Moisture: 18.2

Date Sampled: 02/18/2009 1035
Date Received: 02/19/2009 1000

8082 Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Method: 8082
Preparation: 3550B
Dilution: 1.0
Date Analyzed: 03/09/2009 1601
Date Prepared: 02/19/2009 2010

Analysis Batch: 220-25007
Prep Batch: 220-24485

Instrument ID: HP 5890 with dual ECD
Lab File ID: C4748434.d
Initial Weight/Volume: 30.20 g
Final Weight/Volume: 10 mL
Injection Volume: 1.0 uL
Column ID: PRIMARY

Analyte	DryWt Corrected: Y Result (ug/Kg)	Qualifier	MDL	RL
PCB-1016	21	U	1.6	21
PCB-1221	21	U	1.6	21
PCB-1232	21	U	1.6	21
PCB-1242	21	U	1.6	21
PCB-1248	21	U	1.6	21
PCB-1254	21	U	1.7	21
PCB-1260	37		1.7	21

Surrogate	%Rec	Acceptance Limits
Tetrachloro-m-xylene	144	24 - 154
DCB Decachlorobiphenyl	140	25 - 159

Method: 8082
Preparation: 3550B
Dilution: 1.0
Date Analyzed: 03/09/2009 1601
Date Prepared: 02/19/2009 2010

Analysis Batch: 220-25007
Prep Batch: 220-24485

Instrument ID: HP 5890 with dual ECD
Lab File ID: D4748434.d
Initial Weight/Volume: 30.20 g
Final Weight/Volume: 10 mL
Injection Volume: 1.0 uL
Column ID: SECONDARY

Surrogate	%Rec	Acceptance Limits
Tetrachloro-m-xylene	149	24 - 154
DCB Decachlorobiphenyl	97	25 - 159

JC 4/1/09

03/24/09

Recd 3/30/09

Analytical Data

Client: GEI Consultants, Inc.

Job Number: 220-8107-1
Sdg Number: 220-8107

Client Sample ID: **EHS-SS-10**

Lab Sample ID: 220-8107-3
Client Matrix: Solid

% Moisture: 18.2

Date Sampled: 02/18/2009 1035
Date Received: 02/19/2009 1000

8081A Organochlorine Pesticides (GC)

Method: 8081A
Preparation: 3550B
Dilution: 1.0
Date Analyzed: 03/05/2009 0045
Date Prepared: 02/19/2009 2010

Analysis Batch: 220-24849
Prep Batch: 220-24485

Instrument ID: HP 6890 dual ECD
Lab File ID: C8365032.D
Initial Weight/Volume: 30.20 g
Final Weight/Volume: 10 mL
Injection Volume: 1.0 uL
Column ID: PRIMARY

Analyte	DryWt Corrected: Y Result (ug/Kg)	Qualifier	MDL	RL
4,4'-DDD	4.0	U J ✓	0.72	4.0
4,4'-DDE	49	J ✓	0.81	4.0
4,4'-DDT	50		0.98	4.0
Aldrin	2.1	U J ✓	0.22	2.1
alpha-BHC	2.1	U ✓	0.30	2.1
beta-BHC	2.1	U ✓	0.45	2.1
delta-BHC	2.1	U ✓	0.44	2.1
Dieldrin	4.0	U ✓	0.69	4.0
Endosulfan I	2.1	U ✓	0.35	2.1
Endosulfan II	4.0	U ✓	0.76	4.0
Endosulfan sulfate	4.0	U ✓	0.72	4.0
Endrin	4.0	U J ✓	0.75	4.0
Endrin aldehyde	4.0	U	0.49	4.0
Endrin ketone	4.0	U J ✓	0.74	4.0
gamma-BHC (Lindane)	2.1	U J ✓	0.35	2.1
Heptachlor	2.1	U	0.39	2.1
Heptachlor epoxide	2.1	U J ✓	0.37	2.1
Methoxychlor	21	U	4.4	21
Toxaphene	100	U	11	100
alpha-Chlordane	2.1	U J ✓	0.33	2.1
gamma-Chlordane	2.1	U J ✓	0.64	2.1
Methachlor	21	U	3.7	21

Surrogate	%Rec	Acceptance Limits
DCB Decachlorobiphenyl	96	25 - 159
Tetrachloro-m-xylene	86	24 - 154

Method: 8081A
Preparation: 3550B
Dilution: 1.0
Date Analyzed: 03/05/2009 0045
Date Prepared: 02/19/2009 2010

Analysis Batch: 220-24849
Prep Batch: 220-24485

Instrument ID: HP 6890 dual ECD
Lab File ID: D8365032.D
Initial Weight/Volume: 30.20 g
Final Weight/Volume: 10 mL
Injection Volume: 1.0 uL
Column ID: SECONDARY

Surrogate	%Rec	Acceptance Limits
DCB Decachlorobiphenyl	149	25 - 159
Tetrachloro-m-xylene	76	24 - 154

JC 4/1/09

3/29/09

FORM 1
HERBICIDES ORGANICS ANALYSIS DATA SHEET

STLCTS SAMPLE NO.

EHS-SS-10

Lab Name: TESTAMERICA BURLINGTON Contract: 29001

Lab Code: STLV Case No.: RIVERGEI SAS No.: SDG No.: 22081071

Matrix: (soil/water) SOIL Lab Sample ID: 785224

Sample wt/vol: 50.0 (g/mL) G Lab File ID: 04MA091433-R311

% Moisture: 18 decanted: (Y/N) N Date Received: 02/20/09

Extraction: (SepF/Cont/Sonc) OTHER Date Extracted: 02/21/09

Concentrated Extract Volume: 10(mL) Date Analyzed: 03/05/09

Injection Volume: 1.0(uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH: ___ Sulfur Cleanup: (Y/N) N

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
94-75-7	2,4-D	46	U UJ ✓
93-72-1	2,4,5-TP (Silvex)	4.6	U
93-76-5	2,4,5-T	12	U

FORM I HERBICIDES

EHM 3/26/09 JC 4/1/09

Analytical Data

Client: GEI Consultants, Inc.

Job Number: 220-8107-1
Sdg Number: 220-8107

Client Sample ID: EHS-SS-10

Lab Sample ID: 220-8107-3
Client Matrix: Solid

% Moisture: 18.2

Date Sampled: 02/18/2009 1035
Date Received: 02/19/2009 1000

6010B Metals (ICP)

Method: 6010B
Preparation: 3050B
Dilution: 1.0
Date Analyzed: 03/03/2009 1854
Date Prepared: 03/02/2009 1145

Analysis Batch: 220-24795
Prep Batch: 220-24742

Instrument ID: TJA Trace ICAP
Lab File ID: W030309
Initial Weight/Volume: 1.30 g
Final Weight/Volume: 250 mL

Analyte	DryWt Corrected: Y	Result (mg/Kg)	Qualifier	MDL	RL
Silver		3.5	U	0.33	3.5
Aluminum		9700		74.0	118
Arsenic		14.0		0.73	5.9
Barium		31.6		0.26	2.4
Beryllium		0.50	J ✓	0.26	2.4
Calcium		998		12.9	235
Cadmium		5.9	U	0.61	5.9
Cobalt		2.1	J ✓	0.24	2.4
Chromium		10.3		0.33	3.5
Copper		40.8		0.71	5.9
Iron		10300		8.2	70.5
Potassium		245		20.0	235
Magnesium		1100		11.8	41.1
Manganese		96.6		0.24	7.1
Sodium		~~54.4~~ 235 U	~~J~~ ✓	12.9	235
Nickel		5.9		0.61	5.9
Lead		82.2		0.49	5.9
Antimony		11.8	U	1.4	11.8
Selenium		~~1.4~~ 11.8 U	~~J~~ ✓	1.1	11.8
Thallium		8.2	U	3.6	8.2
Vanadium		17.7		0.21	4.7
Zinc		82.9		1.8	23.5

7471A Mercury (CVAA)

Method: 7471A
Preparation: 7471A
Dilution: 1.0
Date Analyzed: 02/27/2009 1449
Date Prepared: 02/26/2009 1609

Analysis Batch: 220-24727
Prep Batch: 220-24679

Instrument ID: Perkin Elmer FIMS
Lab File ID: N/A
Initial Weight/Volume: 0.63 g
Final Weight/Volume: 50 mL

Analyte	DryWt Corrected: Y	Result (mg/Kg)	Qualifier	MDL	RL
Mercury		0.063		0.017	0.058

JC 4/1/09

03/18/2009 3/25/09

WET CHEMISTRY

Sample Report Summary

Client Sample No.: EHS-SS-10

Lab Name: TestAmerica Burlington | Contract: 220-8107-1 | SDG No.: 22081071

Lab Code: TALVT | Case No.: RIVERGEI | Lab Sample ID: 785224

Matrix: SOLID | Client: STLCTS | Date Received: 02/20/09

% Solids: 82.1

Method	Parameter	Analytical Run Date	Analytical Batch	Units	DF	RL	Conc.	Qual.
9030B/9034	Acid Soluble Sulfide	02/24/09	BLKSU022409A	mg/Kg	1	17.3	17.3 U	✓
IN623	Solids, Percent	02/23/09	N/A	%	1.0		82.1	

JC 4/1/09

JAM 3/25/09

Printed on: 02/26/09 02:24 PM 03/18/2009

rec'd 3/30/09

Analytical Data

Client: GEI Consultants, Inc.

Job Number: 220-8107-1
Sdg Number: 220-8107

Client Sample ID: EHS-GW-01

Lab Sample ID: 220-8107-2
Client Matrix: Water

Date Sampled: 02/18/2009 0958
Date Received: 02/19/2009 1000

6010B Metals (ICP)

Method: 6010B
Preparation: 3010A
Dilution: 1.0
Date Analyzed: 03/05/2009 1529
Date Prepared: 03/04/2009 1227

Analysis Batch: 220-24866
Prep Batch: 220-24819

Instrument ID: TJA Trace ICAP
Lab File ID: W030509
Initial Weight/Volume: 50 mL
Final Weight/Volume: 50 mL

Analyte	Result (ug/L)	Qualifier	MDL	RL
Silver	10	U	1.3	10
Aluminum	500	U	47	500
Arsenic	20	U	4.4	20
Barium	43		1.2	10
Beryllium	10	U	1.1	10
Calcium	9700		62	500
Cadmium	10	U	2.8	10
Cobalt	10	U	1.4	10
Chromium	10		1.0	10
Copper	2.8	J ✓	1.4	10
Iron	180	J ✓	62	250
Potassium	1800		81	500
Magnesium	2300		49	500
Manganese	6.2	J ✓	2.3	15
Sodium	24000		50	500
Nickel	5.5	J ✓	1.4	10
Lead	30	U	3.0	30
Antimony	40	U	8.8	40
Selenium	30	U	3.2	30
Thallium	30	U	8.0	30
Vanadium	10	U	1.2	10
Zinc	50	U	7.0	50

7470A Mercury (CVAA)

Method: 7470A
Preparation: 7470A
Dilution: 1.0
Date Analyzed: 03/05/2009 1651
Date Prepared: 03/05/2009 1202

Analysis Batch: 220-24915
Prep Batch: 220-24863

Instrument ID: Perkin Elmer FIMS
Lab File ID: N/A
Initial Weight/Volume: 25 mL
Final Weight/Volume: 50 mL

Analyte	Result (ug/L)	Qualifier	MDL	RL
Mercury	~~0.20~~ 0.40 ✓	U	0.090	~~0.20~~ 0.40

JM 3/25/09

Client: GEI Consultants, Inc.

Job Number: 220-8107-1
Sdg Number: 220-8107

Client Sample ID: RB-1

Lab Sample ID: 220-8107-8RB
Client Matrix: Water

Date Sampled: 02/18/2009 1215
Date Received: 02/19/2009 1000

8260B Volatile Organic Compounds (GC/MS)

Method: 8260B
Preparation: 5030B
Dilution: 1.0
Date Analyzed: 02/27/2009 2008
Date Prepared: 02/27/2009 2008

Analysis Batch: 220-24745

Instrument ID: HP 6890/5973 GC/MS
Lab File ID: V2129.D
Initial Weight/Volume: 5 mL
Final Weight/Volume: 5 mL

Analyte	Result (ug/L)	Qualifier	MDL	RL
Acetone	4.8	J J✓	1.0	10
Benzene	5.0	U	0.74	5.0
Bromodichloromethane	5.0	U	0.48	5.0
Bromoform	5.0	U	0.46	5.0
Bromomethane	5.0	U	2.1	5.0
Methyl Ethyl Ketone	5.1	J J✓	1.1	10
Carbon disulfide	5.0	U	0.90	5.0
Carbon tetrachloride	5.0	U	1.1	5.0
Chlorobenzene	5.0	U	0.72	5.0
Chloroethane	5.0	U	1.1	5.0
Chloroform	5.0	U	0.67	5.0
Chloromethane	5.0	U	1.1	5.0
Dibromochloromethane	5.0	U	0.55	5.0
1,1-Dichloroethane	5.0	U	1.0	5.0
1,2-Dichloroethane	5.0	U	0.72	5.0
1,1-Dichloroethene	5.0	U	0.83	5.0
1,2-Dichloropropane	5.0	U	0.71	5.0
cis-1,3-Dichloropropene	5.0	U	0.28	5.0
trans-1,3-Dichloropropene	5.0	U	0.57	5.0
Ethylbenzene	5.0	U	0.87	5.0
2-Hexanone	10	U	1.1	10
Methylene Chloride	5.0	U	0.78	5.0
methyl isobutyl ketone	10	U	0.38	10
Styrene	5.0	U	0.64	5.0
1,1,2,2-Tetrachloroethane	5.0	U	0.81	5.0
Tetrachloroethene	5.0	U	0.81	5.0
Toluene	5.0	U	0.72	5.0
1,1,1-Trichloroethane	5.0	U	0.69	5.0
1,1,2-Trichloroethane	5.0	U	0.65	5.0
Trichloroethene	5.0	U	0.62	5.0
Vinyl chloride	5.0	U	0.99	5.0
Xylenes, Total	5.0	U	2.3	5.0
cis-1,2-Dichloroethene	5.0	U	0.99	5.0
trans-1,2-Dichloroethene	5.0	U	0.76	5.0

Surrogate	%Rec	Acceptance Limits
1,2-Dichloroethane-d4 (Surr)	102	53 - 125
4-Bromofluorobenzene	80	73 - 127
Dibromofluoromethane	98	54 - 137
Toluene-d8 (Surr)	88	63 - 121

EMM 3/30/09 JC 4/1/09

Client: GEI Consultants, Inc.

Job Number: 220-8107-1
Sdg Number: 220-8107

Client Sample ID: RB-1

Lab Sample ID: 220-8107-8RB
Client Matrix: Water

Date Sampled: 02/18/2009 1215
Date Received: 02/19/2009 1000

8270C Semivolatile Compounds by Gas Chromatography/Mass Spectrometry (GC/MS)

Method: 8270C
Preparation: 3510C
Dilution: 1.0
Date Analyzed: 03/10/2009 1936
Date Prepared: 02/23/2009 1216

Analysis Batch: 220-25046
Prep Batch: 220-24533

Instrument ID: HP 6890/5975
Lab File ID: A4203.D
Initial Weight/Volume: 1000 mL
Final Weight/Volume: 1.0 mL
Injection Volume: 1.0 uL

Analyte	Result (ug/L)	Qualifier	MDL	RL
Acenaphthene	4.0	U	0.38	4.0
Acenaphthylene	4.0	U	0.47	4.0
Anthracene	4.0	U	0.42	4.0
Benzo[a]anthracene	4.0	U	0.37	4.0
Benzo[a]pyrene	4.0	U	0.37	4.0
Benzo[b]fluoranthene	4.0	U	0.38	4.0
Benzo[g,h,i]perylene	4.0	U	0.29	4.0
Benzo[k]fluoranthene	4.0	U	0.43	4.0
Bis(2-chloroethoxy)methane	4.0	U	1.1	4.0
Bis(2-chloroethyl)ether	4.0	U	1.0	4.0
Bis(2-ethylhexyl) phthalate	4.0	U	0.50	4.0
Butyl benzyl phthalate	4.0	U	0.48	4.0
Carbazole	4.0	U	0.35	4.0
Chrysene	4.0	U	0.40	4.0
Di-n-butyl phthalate	4.0	U	0.49	4.0
Di-n-octyl phthalate	4.0	U	0.45	4.0
4-Bromophenyl phenyl ether	4.0	U	0.49	4.0
4-Chloroaniline	4.0	U	0.67	4.0
2-Chloronaphthalene	4.0	U	0.49	4.0
4-Chlorophenyl phenyl ether	4.0	U	0.49	4.0
Dibenz(a,h)anthracene	4.0	U	0.32	4.0
Dibenzofuran	4.0	U	0.39	4.0
Diethyl phthalate	4.0	U	0.42	4.0
Dimethyl phthalate	4.0	U	0.33	4.0
1,2-Dichlorobenzene	4.0	U	0.48	4.0
1,3-Dichlorobenzene	4.0	U	0.43	4.0
1,4-Dichlorobenzene	4.0	U	0.51	4.0
3,3'-Dichlorobenzidine	4.0	U	0.66	4.0
2,4-Dinitrotoluene	4.0	U	0.30	4.0
2,6-Dinitrotoluene	4.0	U	0.42	4.0
Fluoranthene	4.0	U	0.42	4.0
Fluorene	4.0	U	0.48	4.0
Hexachlorobenzene	4.0	U	0.48	4.0
Hexachlorobutadiene	4.0	U	0.86	4.0
Hexachlorocyclopentadiene	4.0	U	0.75	4.0
Hexachloroethane	4.0	U	0.52	4.0
Indeno[1,2,3-cd]pyrene	4.0	U	0.41	4.0
Isophorone	4.0	U	0.38	4.0
2-Methylnaphthalene	4.0	U	0.47	4.0
Naphthalene	4.0	U	0.42	4.0
2-Nitroaniline	4.0	U	0.53	4.0
3-Nitroaniline	4.0	U	0.37	4.0
Nitrobenzene	4.0	U	0.73	4.0
N-Nitrosodi-n-propylamine	4.0	U	0.41	4.0

EMM 3/26/09 JC 4/1/09

Client: GEI Consultants, Inc.

Job Number: 220-8107-1
Sdg Number: 220-8107

Client Sample ID: RB-1

Lab Sample ID: 220-8107-8RB
Client Matrix: Water

Date Sampled: 02/18/2009 1215
Date Received: 02/19/2009 1000

8270C Semivolatile Compounds by Gas Chromatography/Mass Spectrometry (GC/MS)

Method: 8270C
Preparation: 3510C
Dilution: 1.0
Date Analyzed: 03/10/2009 1936
Date Prepared: 02/23/2009 1216

Analysis Batch: 220-25046
Prep Batch: 220-24533

Instrument ID: HP 6890/5975
Lab File ID: A4203.D
Initial Weight/Volume: 1000 mL
Final Weight/Volume: 1.0 mL
Injection Volume: 1.0 uL

Analyte	Result (ug/L)	Qualifier	MDL	RL
N-Nitrosodiphenylamine	4.0	U	0.35	4.0
Phenanthrene	4.0	U	0.39	4.0
Pyrene	4.0	U	0.42	4.0
1,2,4-Trichlorobenzene	4.0	U	0.65	4.0
4-Chloro-3-methylphenol	5.0	U	1.3	5.0
2-Chlorophenol	4.0	U	0.61	4.0
2-Methylphenol	4.0	U	0.60	4.0
4-Methylphenol	4.0	U	0.39	4.0
2,4-Dichlorophenol	4.0	U	0.55	4.0
2,4-Dimethylphenol	4.0	U	0.50	4.0
2,4-Dinitrophenol	25	U	1.1	25
4,6-Dinitro-2-methylphenol	25	U	0.37	25
2-Nitrophenol	4.0	U	0.51	4.0
4-Nitrophenol	10	U	0.38	10
Pentachlorophenol	25	U	1.2	25
Phenol	4.0	U	0.29	4.0
2,4,5-Trichlorophenol	10	U	0.54	10
2,4,6-Trichlorophenol	4.0	U	0.49	4.0
Benzyl alcohol	4.0	U	0.39	4.0
4-Nitroaniline	4.0	U	0.28	4.0
2,2'-oxybis[1-chloropropane]	4.0	U	0.71	4.0
Atrazine	4.0	U	0.31	4.0
Simazine	4.0	U	0.34	4.0

Surrogate	%Rec	Acceptance Limits
2-Fluorobiphenyl	53	43 - 116
2-Fluorophenol	25	21 - 97
2,4,6-Tribromophenol	52	29 - 126
Nitrobenzene-d5	53	38 - 113
Phenol-d5	18	18 - 97
Terphenyl-d14	51	10 - 119

EMM 3/26/09 JC 4/1/09

Client: GEI Consultants, Inc.

Job Number: 220-8107-1
Sdg Number: 220-8107

Client Sample ID: RB-1

Lab Sample ID: 220-8107-8RB
Client Matrix: Water

Date Sampled: 02/18/2009 1215
Date Received: 02/19/2009 1000

8082 Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Method: 8082
Preparation: 3510C
Dilution: 1.0
Date Analyzed: 03/09/2009 1542
Date Prepared: 02/20/2009 1343

Analysis Batch: 220-25007
Prep Batch: 220-24491

Instrument ID: HP 5890 with dual ECD
Lab File ID: D4748433.d
Initial Weight/Volume: 1000 mL
Final Weight/Volume: 10.0 mL
Injection Volume: 1.0 uL
Column ID: PRIMARY

Analyte	Result (ug/L)	Qualifier	MDL	RL
PCB-1016	0.50	U	0.050	0.50
PCB-1221	0.50	U	0.050	0.50
PCB-1232	0.50	U	0.050	0.50
PCB-1242	0.50	U	0.050	0.50
PCB-1248	0.50	U	0.050	0.50
PCB-1254	0.50	U	0.082	0.50
PCB-1260	0.50	U	0.082	0.50

Surrogate	%Rec	Acceptance Limits
Tetrachloro-m-xylene	84	53 - 144
DCB Decachlorobiphenyl	33	29 - 156

JC 4/1/09

3/24/09

Client: GEI Consultants, Inc.

Job Number: 220-8107-1
Sdg Number: 220-8107

Client Sample ID: **RB-1**

Lab Sample ID: 220-8107-8RB
Client Matrix: Water

Date Sampled: 02/18/2009 1215
Date Received: 02/19/2009 1000

8081A Organochlorine Pesticides (GC)

Method: 8081A
Preparation: 3510C
Dilution: 1.0
Date Analyzed: 02/25/2009 0058
Date Prepared: 02/20/2009 1343

Analysis Batch: 220-24614
Prep Batch: 220-24491

Instrument ID: HP 6890 dual ECD
Lab File ID: C8361024.D
Initial Weight/Volume: 1000 mL
Final Weight/Volume: 10.0 mL
Injection Volume: 1.0 uL
Column ID: PRIMARY

Analyte	Result (ug/L)	Qualifier	MDL	RL
4,4'-DDD	0.10	UJ ✓	0.011	0.10
4,4'-DDE	0.10	U	0.0095	0.10
4,4'-DDT	0.10	UJ ✓	0.014	0.10
Aldrin	0.050	U	0.0082	0.050
alpha-BHC	0.050	U	0.0079	0.050
beta-BHC	0.050	U	0.0075	0.050
delta-BHC	0.050	U	0.0057	0.050
Dieldrin	0.10	U	0.0098	0.10
Endosulfan I	0.050	U	0.0046	0.050
Endosulfan II	0.10	U	0.0097	0.10
Endosulfan sulfate	0.10	U	0.014	0.10
Endrin	0.10	UJ ✓	0.014	0.10
Endrin aldehyde	0.10	U	0.0091	0.10
Endrin ketone	0.10	U	0.010	0.10
gamma-BHC (Lindane)	0.050	U	0.0053	0.050
Heptachlor	0.050	U	0.0075	0.050
Heptachlor epoxide	0.050	U	0.0058	0.050
Methoxychlor	0.50	UJ ✓	0.091	0.50
Toxaphene	2.5	U	0.21	2.5
alpha-Chlordane	0.050	U	0.0048	0.050
gamma-Chlordane	0.050	U	0.0048	0.050

Surrogate	%Rec	Acceptance Limits
DCB Decachlorobiphenyl	36	29 - 156
Tetrachloro-m-xylene	70	53 - 144

Method: 8081A
Preparation: 3510C
Dilution: 1.0
Date Analyzed: 02/25/2009 0058
Date Prepared: 02/20/2009 1343

Analysis Batch: 220-24614
Prep Batch: 220-24491

Instrument ID: HP 6890 dual ECD
Lab File ID: D8361024.D
Initial Weight/Volume: 1000 mL
Final Weight/Volume: 10.0 mL
Injection Volume: 1.0 uL
Column ID: SECONDARY

Surrogate	%Rec	Acceptance Limits
DCB Decachlorobiphenyl	36	29 - 156
Tetrachloro-m-xylene	70	53 - 144

JC 4/1/09

Jam 3/24/09

Client: GEI Consultants, Inc.

Job Number: 220-8107-1
Sdg Number: 220-8107

Client Sample ID: RB-1

Lab Sample ID: 220-8107-8RB
Client Matrix: Water

Date Sampled: 02/18/2009 1215
Date Received: 02/19/2009 1000

8081A Organochlorine Pesticides (GC)

Method: 8081A
Preparation: 3510C
Dilution: 1.0
Date Analyzed: 03/04/2009 2147
Date Prepared: 02/20/2009 1343

Analysis Batch: 220-24849
Prep Batch: 220-24491

Instrument ID: HP 6890 dual ECD
Lab File ID: C8365025.D
Initial Weight/Volume: 1000 mL
Final Weight/Volume: 10.0 mL
Injection Volume: 1.0 uL
Column ID: PRIMARY

Analyte	Result (ug/L)	Qualifier	MDL	RL
Methachlor	0.50	U	0.042	0.50

Client: GEI Consultants, Inc.

Job Number: 220-8107-1
Sdg Number: 220-8107

Client Sample ID: **RB-1**

Lab Sample ID: 220-8107-8RB
Client Matrix: Water

Date Sampled: 02/18/2009 1215
Date Received: 02/19/2009 1000

8081A Organochlorine Pesticides (GC)

Method: 8081A
Preparation: 3510C
Dilution: 1.0
Date Analyzed: 03/04/2009 2147
Date Prepared: 02/20/2009 1343

Analysis Batch: 220-24849
Prep Batch: 220-24491

Instrument ID: HP 6890 dual ECD
Lab File ID: C8365025.D
Initial Weight/Volume: 1000 mL
Final Weight/Volume: 10.0 mL
Injection Volume: 1.0 uL
Column ID: SECONDARY

Surrogate	%Rec	Acceptance Limits
DCB Decachlorobiphenyl	37	29 - 156
DCB Decachlorobiphenyl	36	29 - 156
Tetrachloro-m-xylene	70	53 - 144
Tetrachloro-m-xylene	71	53 - 144

FORM 1
HERBICIDES ORGANICS ANALYSIS DATA SHEET

STLCTS SAMPLE NO.

RB-1

Lab Name: TESTAMERICA BURLINGTON Contract: 29001

Lab Code: STLV Case No.: RIVERGEI SAS No.: SDG No.: 22081071

Matrix: (soil/water) WATER Lab Sample ID: 785229

Sample wt/vol: 940.0 (g/mL) ML Lab File ID: 04MA091433-R101

% Moisture: _____ decanted: (Y/N)___ Date Received: 02/20/09

Extraction: (SepF/Cont/Sonc) SEPF Date Extracted: 02/21/09

Concentrated Extract Volume: 10(mL) Date Analyzed: 03/04/09

Injection Volume: 1.0(uL) Dilution Factor: 1.0

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

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q	
94-75-7	2,4-D	2.0	U UJ	✓
93-72-1	2,4,5-TP (Silvex)	0.20	U	
93-76-5	2,4,5-T	0.50	U UJ	✓

FORM I HERBICIDES

EHM 3/24/09

JC 4/1/09

Client: GEI Consultants, Inc.

Job Number: 220-8107-1
Sdg Number: 220-8107

Client Sample ID: RB-1

Lab Sample ID: 220-8107-8RB
Client Matrix: Water

Date Sampled: 02/18/2009 1215
Date Received: 02/19/2009 1000

6010B Metals (ICP)

Method: 6010B
Preparation: 3010A
Dilution: 1.0
Date Analyzed: 03/05/2009 1535
Date Prepared: 03/04/2009 1227

Analysis Batch: 220-24866
Prep Batch: 220-24819

Instrument ID: TJA Trace ICAP
Lab File ID: W030509
Initial Weight/Volume: 50 mL
Final Weight/Volume: 50 mL

Analyte	Result (ug/L)	Qualifier	MDL	RL
Silver	10	U	1.3	10
Aluminum	500	U	47	500
Arsenic	20	U	4.4	20
Barium	10	U	1.2	10
Beryllium	10	U	1.1	10
Calcium	500	U	62	500
Cadmium	10	U	2.8	10
Cobalt	10	U	1.4	10
Chromium	10	U	1.0	10
Copper	10	U	1.4	10
Iron	250	U	62	250
Potassium	500	U	81	500
Magnesium	500	U	49	500
Manganese	15	U	2.3	15
Sodium	67	J ✓	50	500
Nickel	10	U	1.4	10
Lead	30	U	3.0	30
Antimony	40	U	8.8	40
Selenium	30	U	3.2	30
Thallium	30	U	8.0	30
Vanadium	10	U	1.2	10
Zinc	50	U	7.0	50

7470A Mercury (CVAA)

Method: 7470A
Preparation: 7470A
Dilution: 1.0
Date Analyzed: 03/05/2009 1654
Date Prepared: 03/05/2009 1202

Analysis Batch: 220-24915
Prep Batch: 220-24863

Instrument ID: Perkin Elmer FIMS
Lab File ID: N/A
Initial Weight/Volume: 25 mL
Final Weight/Volume: 50 mL

Analyte	Result (ug/L)	Qualifier	MDL	RL
Mercury	~~0.20~~ 0.40	U	0.090	~~0.20~~ 0.40 ✓

03/18/2009

JC 4/1/09

3/25/09

WET CHEMISTRY

Sample Report Summary

Client Sample No.: RB-1

Lab Name: TestAmerica Burlington | Contract: 220-8107-1 | SDG No.: 22081071

Lab Code: TALVT | Case No.: RIVERGEI | Lab Sample ID: 785229

Matrix: WATER | Client: STLCTS | Date Received: 02/20/09

% Solids:

Method	Parameter	Analytical Run Date	Analytical Batch	Units	DF	RL	Conc.	Qual.
9030B/9034	Acid Soluble Sulfide	02/24/09	BLKSU022409B	mg/L	1	3.20	5.6	

JC 4/1/09

Printed on: 02/26/09 02:24 PM 03/18/2009

JM 3/25/09

Client: GEI Consultants, Inc.

Job Number: 220-8107-1
Sdg Number: 220-8107

Client Sample ID: Trip Blank

Lab Sample ID: 220-8107-1TB
Client Matrix: Water

Date Sampled: 02/18/2009 0000
Date Received: 02/19/2009 1000

8260B Volatile Organic Compounds (GC/MS)

Method: 8260B
Preparation: 5030B
Dilution: 1.0
Date Analyzed: 02/27/2009 1942
Date Prepared: 02/27/2009 1942

Analysis Batch: 220-24745

Instrument ID: HP 6890/5973 GC/MS
Lab File ID: V2128.D
Initial Weight/Volume: 5 mL
Final Weight/Volume: 5 mL

Analyte	Result (ug/L)	Qualifier	MDL	RL
Acetone	10	U UJ	1.0	10
Benzene	5.0	U	0.74	5.0
Bromodichloromethane	5.0	U	0.48	5.0
Bromoform	5.0	U	0.46	5.0
Bromomethane	5.0	U	2.1	5.0
Methyl Ethyl Ketone	10	U	1.1	10
Carbon disulfide	5.0	U	0.90	5.0
Carbon tetrachloride	5.0	U	1.1	5.0
Chlorobenzene	5.0	U	0.72	5.0
Chloroethane	5.0	U	1.1	5.0
Chloroform	5.0	U	0.67	5.0
Chloromethane	5.0	U	1.1	5.0
Dibromochloromethane	5.0	U	0.55	5.0
1,1-Dichloroethane	5.0	U	1.0	5.0
1,2-Dichloroethane	5.0	U	0.72	5.0
1,1-Dichloroethene	5.0	U	0.83	5.0
1,2-Dichloropropane	5.0	U	0.71	5.0
cis-1,3-Dichloropropene	5.0	U	0.28	5.0
trans-1,3-Dichloropropene	5.0	U	0.57	5.0
Ethylbenzene	5.0	U	0.87	5.0
2-Hexanone	10	U	1.1	10
Methylene Chloride	5.0	U	0.78	5.0
methyl isobutyl ketone	10	U	0.38	10
Styrene	5.0	U	0.64	5.0
1,1,2,2-Tetrachloroethane	5.0	U	0.81	5.0
Tetrachloroethene	5.0	U	0.81	5.0
Toluene	5.0	U	0.72	5.0
1,1,1-Trichloroethane	5.0	U	0.69	5.0
1,1,2-Trichloroethane	5.0	U	0.65	5.0
Trichloroethene	5.0	U	0.62	5.0
Vinyl chloride	5.0	U	0.99	5.0
Xylenes, Total	5.0	U	2.3	5.0
cis-1,2-Dichloroethene	5.0	U	0.99	5.0
trans-1,2-Dichloroethene	5.0	U	0.76	5.0

Surrogate	%Rec	Acceptance Limits
1,2-Dichloroethane-d4 (Surr)	102	53 - 125
4-Bromofluorobenzene	81	73 - 127
Dibromofluoromethane	98	54 - 137
Toluene-d8 (Surr)	86	63 - 121

EMM 3/26/09

JC 4/1/09

General Chemistry

Client Sample ID: EHS-SS-10

Lab Sample ID: 220-8107-3
Client Matrix: Solid

% Moisture: 18.2

Date Sampled: 02/18/2009 1035
Date Received: 02/19/2009 1000

Analyte	Result	Qual	Units	MDL	RL	Dil	Method
Sulfate-S	~~4.4~~ 12.2 U	~~J~~ ✓	mg/Kg	0.23	12.2	1.0	300.0
	Anly Batch: 220-24914	Date Analyzed	02/28/2009 0153			DryWt Corrected: Y	

Analyte	Result	Qual	Units	RL	RL	Dil	Method
Percent Moisture	18.2		%	0.100	0.100	1.0	PercentMoisture
	Anly Batch: 220-24562	Date Analyzed	02/23/2009 1600				
Percent Solids	81.8		%	0.100	0.100	1.0	PercentMoisture
	Anly Batch: 220-24562	Date Analyzed	02/23/2009 1600				

Client Sample ID: EHS-SS-08

Lab Sample ID: 220-8107-4
Client Matrix: Solid

% Moisture: 23.4

Date Sampled: 02/18/2009 1045
Date Received: 02/19/2009 1000

Analyte	Result	Qual	Units	MDL	RL	Dil	Method
Sulfate-S	~~4.5~~ 13.1 U	~~J~~ ✓	mg/Kg	0.25	13.1	1.0	300.0
	Anly Batch: 220-24914	Date Analyzed	02/28/2009 0206			DryWt Corrected: Y	

Analyte	Result	Qual	Units	RL	RL	Dil	Method
Percent Moisture	23.4		%	0.100	0.100	1.0	PercentMoisture
	Anly Batch: 220-24562	Date Analyzed	02/23/2009 1600				
Percent Solids	76.6		%	0.100	0.100	1.0	PercentMoisture
	Anly Batch: 220-24562	Date Analyzed	02/23/2009 1600				

3/25/09

General Chemistry

Client Sample ID: **EHS-SS-09**

Lab Sample ID: 220-8107-5
Client Matrix: Solid

% Moisture: 17.2

Date Sampled: 02/18/2009 1055
Date Received: 02/19/2009 1000

Analyte	Result	Qual	Units	MDL	RL	Dil	Method
Sulfate-S	~~6.0~~ 12.1U ✓	~~J~~	mg/Kg	0.23	12.1	1.0	300.0
	Anly Batch: 220-24914	Date Analyzed	02/28/2009 0247			DryWt Corrected: Y	

Analyte	Result	Qual	Units	RL	RL	Dil	Method
Percent Moisture	17.2		%	0.100	0.100	1.0	PercentMoisture
	Anly Batch: 220-24562	Date Analyzed	02/23/2009 1600				
Percent Solids	82.8		%	0.100	0.100	1.0	PercentMoisture
	Anly Batch: 220-24562	Date Analyzed	02/23/2009 1600				

Client Sample ID: **EHS-SS-07**

Lab Sample ID: 220-8107-6
Client Matrix: Solid

% Moisture: 19.2

Date Sampled: 02/18/2009 1105
Date Received: 02/19/2009 1000

Analyte	Result	Qual	Units	MDL	RL	Dil	Method
Sulfate-S	~~6.3~~ 12.4U	~~J~~ ✓	mg/Kg	0.24	12.4	1.0	300.0
	Anly Batch: 220-24914	Date Analyzed	02/28/2009 0300			DryWt Corrected: Y	

Analyte	Result	Qual	Units	RL	RL	Dil	Method
Percent Moisture	19.2		%	0.100	0.100	1.0	PercentMoisture
	Anly Batch: 220-24562	Date Analyzed	02/23/2009 1600				
Percent Solids	80.8		%	0.100	0.100	1.0	PercentMoisture
	Anly Batch: 220-24562	Date Analyzed	02/23/2009 1600				

Jam 3/25/09

General Chemistry

Client Sample ID: BD-1

Lab Sample ID: 220-8107-7
Client Matrix: Solid

% Moisture: 16.4

Date Sampled: 02/18/2009 0000
Date Received: 02/19/2009 1000

Analyte	Result	Qual	Units	MDL	RL	Dil	Method
Sulfate-S	~~5.8~~ 12.0 U	J ✓	mg/Kg	0.23	12.0	1.0	300.0
	Anly Batch: 220-24914		Date Analyzed	02/28/2009 0314			DryWt Corrected: Y

Analyte	Result	Qual	Units	RL	RL	Dil	Method
Percent Moisture	16.4		%	0.100	0.100	1.0	PercentMoisture
	Anly Batch: 220-24562		Date Analyzed	02/23/2009 1600			
Percent Solids	83.6		%	0.100	0.100	1.0	PercentMoisture
	Anly Batch: 220-24562		Date Analyzed	02/23/2009 1600			

Client Sample ID: RB-1

Lab Sample ID: 220-8107-8RB
Client Matrix: Water

Date Sampled: 02/18/2009 1215
Date Received: 02/19/2009 1000

Analyte	Result	Qual	Units	MDL	RL	Dil	Method
Sulfate	0.18	J ✓	mg/L	0.046	1.0	1.0	300.0
	Anly Batch: 220-24920		Date Analyzed	02/28/2009 0557			

3/25/09

Appendix H

Decision Key

Fish and Wildlife Resources Impact Analysis Decision Key
East Hampton Hortonsphere Site
East Hampton, New York

	Yes	No
1. Is the site or area of concern a discharge or spill event?		√
2. Is the site or area of concern a point source of contamination to groundwater which will be prevented from discharging to surface water? Soil contamination is not widespread, or if widespread, is confined under buildings and paved areas?		√
3. Is the site and all adjacent property a developed area with buildings, paved surfaces and little or no vegetation?	√	
4. Does the site contain habitat of an endangered, threatened, or special concern species?		√
5. Has the contamination gone off-site?		√
6. Is there any discharge or erosion of contamination or the potential for discharge or erosion of contamination?		√
7. Are the site contaminants PCBs, pesticides, or other persistent, bioaccumulable substances?	√	
8. Does contamination exist at concentrations that could exceed SCGs or be toxic to aquatic life if discharged to surface water?	√	
9. Does the site or any adjacent or downgradient property contain any of the following resources?		
a. Any endangered, threatened, or special concern species or rare plants or their habitats	√	
b. Any NYSDEC designated significant habitats or rare NYS ecological communities	√	
c. Tidal or freshwater wetlands	√	
d. Streams, creeks, or river		√
e. Pond, lake, or lagoon		√
f. Drainage ditch or channel		√
g. Other surface water features		√
h. Other marine or freshwater habitats		√
i. Forest	√	
j. Grassland or grassy field	√	
k. Parkland or woodland	√	
l. Shrubby area	√	
m. Urban wildlife habitat	√	
n. Other terrestrial habitat	√	
10. Is the lack of resources due to contamination?	√	
11. Is the contamination a localized source which has not migrated from the source to impact any on-site or off-site resources?	√	
12. Does the site have widespread soil contamination that is not confined under and around buildings or paved areas?		√
13. Does the contamination at the site or area of concern have the potential to migrate to, erode into or otherwise impact any on-site or off-site habitat of endangered, threatened or special concern species or other fish and wildlife resources?		√
14. Fish and wildlife resource impact analysis needed?		√