



Consultants | Engineers | Contractors

May 14, 2010

Massachusetts Department of Environmental Protection
Central Regional Office
627 Main Street
Worcester, Massachusetts 01608

**RE: Immediate Response Action Plan
183 Turnpike, Westborough, Massachusetts
MassDEP RTN 2-17834
CEA Ref # RI-0112-10**

To Whom It May Concern:

Corporate Environmental Advisors, Inc. (CEA), on behalf of Brendon Properties, has prepared the attached *Immediate Response Action (IRA) Plan* for a 2-hour reportable condition observed at the property located at 183 Turnpike Road in Westborough, Massachusetts. This report is submitted in accordance with 310 CMR 40.0424 of the Massachusetts Contingency Plan (MCP).

The purpose of the *IRA Plan* is to address the presence of arsenic detected in surface soil at a concentration that exceeds the Imminent Hazard (IH) level. The IRA is required in accordance with the Massachusetts Contingency Plan (MCP) regulation 310 CMR 40.0412(1). Release Tracking Number (RTN) 2-17834 was assigned by the Massachusetts Department of Environmental Protection (MassDEP) on March 31, 2010 for the detection of arsenic in surface soil. A Release Notification Form (RNF) was submitted to the MassDEP on April 25, 2008.

If there are any questions or comments regarding this submittal, please contact our office at (401) 334-3313.

Sincerely,
Corporate Environmental Advisors, Inc.

A handwritten signature in black ink, appearing to read "Michael H. Coté".

Michael H. Coté
Assistant PM

Attachments: Transmittal Forms, Report
cc: Mr. Allen Hight, Brendon Properties



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IMMEDIATE RESPONSE ACTION (IRA) PLAN

183 Turnpike Road
Westborough MA 01581

Release Tracking Number: 2-17834
CEA Project No. RI-0112-10

May 14, 2010

Party Assuming Responsibility for the IRA:

Brendon Properties
259 Turnpike Road
Southborough, MA 01772
Contact: Mr. Allen Hight, (Director of Management)
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Prepared by:

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TABLE OF CONTENTS

1.0	INTRODUCTION	1
2.0	BACKGROUND.....	1
2.1	Environmental History	1
2.2	Regulatory History.....	2
3.0	RELEASE DESCRIPTION, SITE CONDITIONS, AND SURROUNDING RECEPTORS.....	3
3.1	Release Description	3
3.2	Site Conditions.....	3
3.3	Sensitive Receptors.....	3
4.0	REQUIREMENT OF IMMEDIATE RESPONSE ACTION	4
5.0	EVALUATION OF IMMINENT HAZARD	4
6.0	IMMEDIATE RESPONSE ACTION OBJECTIVES AND ACTIVITIES COMPLETED TO DATE AND TO ABATE AN IMMINENT HAZARD.....	5
6.1	IRA Objectives	5
6.2	IRA Activities Completed to Date to abate an Imminent Hazard.....	5
7.0	ON-GOING IRA ACTIVITIES, PROPOSED SCHEDULE, AND REPORTING.....	6
8.0	CRITICAL EXPOSURE PATHWAY EVALUATION	7
9.0	SUBSTANTIAL RELEASE MIGRATION EVALUATION	7
10.0	FEDERAL, STATE OR LOCAL PERMITS NECESSARY TO CONDUCT THE IRA.....	8
11.0	DEVIATIONS FROM VERBAL IRA NOTIFICATION	8
12.0	PUBLIC NOTIFICATION.....	8

FIGURES

- Figure 1 - Site Locus
- Figure 2 - Site Layout
- Figure 3 - MassDEP BWSC Site Scoring Map

APPENDICES

- Appendix A – Copy ECS Subsurface Assessment Report dated March 19, 2010
- Appendix B – Copies of Public Notification Letters



IMMEDIATE RESPONSE ACTION (IRA) PLAN

183 Turnpike Road
Westborough MA 01581
Release Tracking Number: 2-17834

1.0 INTRODUCTION

This Immediate Response Action (IRA) Plan is submitted in response to the discovery of arsenic in soil at 183 Turnpike Road in Westborough, Massachusetts (the “Site”). The arsenic was discovered during a Limited Subsurface Assessment (LSA), within the upper one (1) foot of soil and above the Imminent Hazard (IH) concentration. Therefore the Massachusetts Department of Environmental Protection (MassDEP) was verbally notified of the IH on March 31, 2010 who issued Release Tracking Number (RTN) **2-17834** to the occurrence of arsenic.

This plan details completed IRA activities verbally approved by the MassDEP as well as additional activities to be conducted and a schedule for implementation of these activities. The Site is shown on the Site Locus, **Figure 1**, part of the Marlborough, Massachusetts, 7.5-minute, *United States Geological Survey* (U.S.G.S) Topographic Quadrangle.

This IRA Plan and Bureau of Waste Site Cleanup (BWSC) Form 105 were submitted electronically via the MassDEP’s eDEP online filing system. A Release Notification Form (RNF) was submitted to the MassDEP on April 26, 2010.

The Potentially Responsible Party (PRP) for the Site is Brendon Properties represented by:

Mr. Allen Hight – Director of Management
259 Turnpike Road
Southborough, Massachusetts 01772

2.0 BACKGROUND

2.1 *Environmental History*

During a LSA conducted by Environmental Compliance Services (ECS) in February and March 2010, soil and groundwater samples were collected to evaluate potential environmental issues related to the historical use of the Site as a nursery. A copy of the ECS report dated March 2010 is included in **Appendix A**. Twenty six (26) soil borings were advanced and two (2) completed as groundwater monitoring wells throughout the Site in February and March 2010. **Figure 2 (Site Layout)** illustrates the boring and monitoring well locations. The borings were conducted in



areas that included former underground storage tanks (USTs), an automobile garage repair area and pesticides storage and uses. The property was decommissioned between 2006 and 2009 and these uses are no longer in operation.

Soil samples from select borings were submitted to a laboratory for analysis of volatile petroleum hydrocarbons (VPH) extractable petroleum hydrocarbons (EPH), volatile organic compounds (VOCs), polychlorinated byphenols (PCBs) and RCRA 8 metals (see **Appendix A**). Laboratory analysis indicates VPH, EPH, VOCs, PCBs and most RCRA 8 metals were either not present or at concentrations below MassDEP Reportable Concentrations (RCs).

Arsenic, chromium and endosulfan sulfate were detected in soil samples at concentrations that exceeded applicable MassDEP RCs. Arsenic was detected in some soil samples at concentrations that exceeded IH levels. Due to the presence of arsenic at concentrations exceeding IH levels, an IH evaluation was conducted. Refer to Section 5.0, Evaluation of IH.

Groundwater analysis for samples collected in February 2010 from monitoring wells MW-1 and MW-2 indicate the absence of all compounds tested except arsenic and lead in MW-1, and sec-butylbenzene in MW-2. However, these concentrations do not exceed the MassDEP reportable concentrations.

The ECS report includes tables summarizing the soil and groundwater quality data and includes a comparison of the data to MassDEP RCs. Based on the outcome of the soil and groundwater analysis, the MassDEP was notified on March 31, 2010 of the IH condition regarding arsenic in surface soil. The MassDEP will be notified within the 120-day deadline (deadline is July 31, 2010) for chromium and endosulfan sulfate identified in soil above MassDEP RCs.

2.2 *Regulatory History*

During a LSA conducted as part of a property purchase and sales, arsenic was discovered in soil at concentrations that exceeded the MassDEP RC. In addition, several soil samples exhibited arsenic concentrations above the IH concentration, and therefore the MassDEP was notified on March 31, 2010 of the condition that could pose an IH. The MassDEP verbally approved an IRA to reduce exposure to the arsenic impacted soil by installing a fence and conduct further assessment activities.

3.0 RELEASE DESCRIPTION, SITE CONDITIONS, AND SURROUNDING RECEPATORS

3.1 *Release Description*

As discussed above, an LSA was conducted in February and March 2010. Arsenic was discovered in soil at concentrations that exceed the MassDEP RC. The source of the arsenic is thought to be the historical use of the Site as a nursery and the historical use of pesticides containing arsenic. Other analysis was conducted including VPH, EPH, VOCs, PCBs and RCRA 8 metals. Chromium and endosulfan sulfite (a pesticide), were reported above RCs, a condition that requires notification within 120 days of knowledge. No other compounds or metals were detected above RCs.

The applicable 2-hour reportable conditions for this release are defined in the Massachusetts Contingency Plan (MCP) at 310 CMR 40.0311(1) and (7):

310 CMR 40.0311(7): any release of oil and/or hazardous material, in any quantity or concentration, that poses or could pose an Imminent Hazard, as described in 310 CMR 40.0321 and 40.0950;

3.2 *Site Conditions*

The Site is approximately 3.5 acres of land formerly occupied by a nursery and residence located at 183 Turnpike Road in Westborough. Refer to **Figure 1** and **Figure 2 (Site Layout)** for the Site location and pertinent Site features. The Site was previously occupied by a residential building, greenhouses and storage buildings. Former USTs were used to store fuel oil to heat the buildings and greenhouses, but were removed from the Site in 2006. The residential building and greenhouses were demolished in 2009. A storage building remains on the Site as well as concrete slabs for the former green houses, an asphalt cover between the concrete slabs, and the house foundation and cement slab. The remainder of the Site is sloped land covered by grass and brush. Numerous soil piles are located in the northwest Site corner. The origin of the soil piles was not identified as of the date of this report.

3.3 *Sensitive Receptors*

According to the MassDEP Bureau of Waste Site Cleanup (BWSC) Site Scoring Map (**Figure 3**), a small portion of the Site (northeast corner) is within an area designated as an approved Zone II. In addition, the entire Site is located within an area designated by the Town of Westborough as an Aquifer Protection District.

The Site is not located within an Interim Wellhead Protection Area (IWPA) or Zone A of a surface water supply. There are no private water supply wells located within 500 feet of the Site. There are no priority habitats of rare species or wetland habitats with rare wildlife or certified vernal pools on-Site or within 500 feet of the Site. There are no protected open spaces within 500 feet of the Site. Residences are approximately 450 feet south of the Site. The presence of basements at those residences will be verified in later documents.

4.0 REQUIREMENT OF IMMEDIATE RESPONSE ACTION

An IRA is required per section 310 CMR 40.0412(1) of the MCP, which states:

310 CMR 40.0412(1): sites or vessels where a release or threat of release of oil and/or hazardous material has occurred which requires notification to the Department under the “Two Hour” notification provisions of 310 CMR 40.0311 or 40.0312;

The Site met this requirement on March 31, 2010 when the current owner of the property was made aware of the presence of arsenic in shallow soil at concentrations that exceed IH levels.

5.0 EVALUATION OF IMMINENT HAZARD

Pursuant to 310 CMR 40.0321 of the MCP, an Imminent Hazard Evaluation shall be performed at any site where a release or threat of release could pose an Imminent Hazard, which includes:

- The presence of oil and/or hazardous (OHM) vapors within buildings, structures, or underground utility conduits at a concentration equal to or greater than 10% of the Lower Explosive Limit;
- A release to the environment of reactive or explosive material which threatens human health or safety;
- A release to a roadway that endangers public safety;
- A release to the environment of OHM which poses a significant risk to human health when present even for a short period of time;
- A release to the environment of OHM which produces immediate or acute adverse impacts to freshwater or saltwater fish populations;
- Concentrations of contaminants identified in private drinking water supply wells at concentrations greater than or equal to ten times the category RCGW-1 reportable concentration;
- Concentrations of arsenic, cadmium, chromium, cyanide, mercury, methyl mercury and PCBs detected in surficial soil above their imminent hazard concentrations within 500



- feet of a residential dwelling, school, playground, recreation area or park, unless access by children is controlled or prevented; or
- A release to the environment for which estimated long-term risk levels associated with current exposures are greater than ten times the Cumulative Risk Limits in 310 CMR 40.0993(6).

As defined in section 40.0321(2) of the MCP, the release met the following conditions that are deemed to pose an Imminent Hazard to health, safety, public welfare or the environment:

310 CMR 40.0321(2)(b): any release to the environment indicated by the measurement of concentrations of hazardous materials, equal to or greater than 40 ug/g (for arsenic) at the ground surface or within a depth of 12 inches below ground surface and within 500 feet of a residential dwelling”

The Site met the criteria for a release that could pose an Imminent Hazard on March 31, 2010 when the owner of the property was made aware that arsenic was detected in soil at a concentration of 105 ug/g and within one foot of the ground surface. The measures taken to abate the IH are discussed in **Section 6.0**.

6.0 IMMEDIATE RESPONSE ACTION OBJECTIVES AND ACTIVITIES COMPLETED TO DATE AND TO ABATE AN IMMINENT HAZARD

6.1 IRA Objectives

The primary objectives of this IRA Plan are to restrict access to the area containing arsenic at concentrations that exceed IH levels and assess the nature and extent of the arsenic in soil and groundwater beneath the Site.

6.2 IRA Activities Completed to Date to abate an Imminent Hazard

On April 8, 2010, with the approval of the MassDEP, a steel wire fence was installed in the area surrounding soil exhibiting arsenic concentrations above IH levels. Some soil exhibiting concentrations above the IH concentration (40 mg/kg) is located beneath concrete slabs and an asphalt cover. These areas were not included within the fenced area because of an asphalt or concrete cover, which limits exposure and does not meet the criteria for a condition that could pose an IH. The fencing is steel wire mesh measuring approximately 5 feet high and supported by steel posts. **Figure 2** depicts the location of soil samples that reported concentrations above IH levels, fencing, concrete slabs and asphalt covers. Additional assessment activities are scheduled and are discussed in **Section 7.0** of this report.



7.0 ON-GOING IRA ACTIVITIES, PROPOSED SCHEDULE, AND REPORTING

Future IRA activities for the Site consist of the following:

- The fencing, asphalt cover and concrete cover will be inspected monthly to ensure access to the IH area is eliminated. The monthly inspections will be conducted until the IH is eliminated.
- Composite soil samples will be collected from the existing stockpiles located in the northwest Site corner to delineate impacts between the stockpiles and native soil on which the soil is stockpiled. The samples will be submitted for analysis of arsenic. The soil samples are scheduled to be collected by the end of May 2010.
- Additional soil samples will be collected from the Site and submitted for analysis of arsenic. The previous assessment identified arsenic in soil throughout the Site, but did not identify the extent of arsenic in soil in all directions. The soil samples are scheduled to be collected by the end of May 2010.
- Additional soil samples will be collected from areas surrounding the soil with arsenic concentrations above IH levels. Soil samples were collected during past assessment activities. However, the new arsenic data will be used to accurately identify impacts above IH levels.
- Groundwater characteristics were not completely defined during past assessment activities. Two (2) groundwater monitoring wells were installed in March 2010. However, groundwater flow was not defined and downgradient groundwater quality may not have been adequately assessed. This will be accomplished by installing two (2) additional monitoring wells in an assumed downgradient location. The installation of the two (2) additional monitoring wells is scheduled to be completed by the end of May 2010. Groundwater samples will be collected using MassDEP protocol, within one week of completing the new well installations from the newly installed wells and previous wells, and submitted for analysis of arsenic.

Additional IRA activities performed will be summarized in an IRA Status report, which will be submitted to the MassDEP within 120 days of original notification (July 29, 2010) and every six (6) months thereafter until the IRA is completed or a Response Action Outcome (RAO) Statement is submitted to the MassDEP.

8.0 CRITICAL EXPOSURE PATHWAY EVALUATION

Pursuant to the Massachusetts Contingency Plan (MCP), Critical Exposure Pathways (CEP) means those routes by which oil and/or hazardous materials released at a disposal site are transported, or are likely to be transported, to human receptors via:

- a. Vapor-phase emissions of measurable concentrations of oil and/or hazardous materials into the living or working space of a pre-school, daycare, school or occupied residential dwelling; or
- b. Ingestion, dermal absorption or inhalation of measurable concentrations of oil and/or hazardous materials from drinking water supply wells located at and servicing a pre-school, daycare, school or occupied residential dwelling.

The release at the Site does not meet the criteria for a critical exposure pathway because none of the criteria listed above apply to the Site.

9.0 SUBSTANTIAL RELEASE MIGRATION EVALUATION

According to 310 CMR 40.0006 of the MCP, a condition of SRM is defined as:

- Releases that have resulted in the discharge of separate-phase oil and or hazardous material to surface waters, subsurface structures, or underground utilities or conduits;
- Releases to the groundwater surface or to the vadose zone that, if not promptly removed or contained, are likely to significantly impact the underlying groundwater, or significantly exacerbate an existing condition of groundwater pollution;
- Releases to the groundwater that have migrated or are expected to migrate more than 200 feet per year;
- Releases to the groundwater that have been or are within one year likely to be detected in a public or private water supply well;
- Releases to the groundwater that have been or are within one year likely to be detected in a surface water body, wetland, or public water supply reservoir; or
- Releases to the groundwater that have resulted or are within one year likely to result in the discharge of vapors into school buildings or occupied dwellings.

There is no separate phase liquids identified to date or impacts identified to groundwater above MassDEP RC. Therefore the Site does not meet the criteria for a condition of substantial Release Migration.

10.0 FEDERAL, STATE OR LOCAL PERMITS NECESSARY TO CONDUCT THE IRA

There are no current federal, state or local permits required to conduct the IRA activities.

11.0 DEVIATIONS FROM VERBAL IRA NOTIFICATION

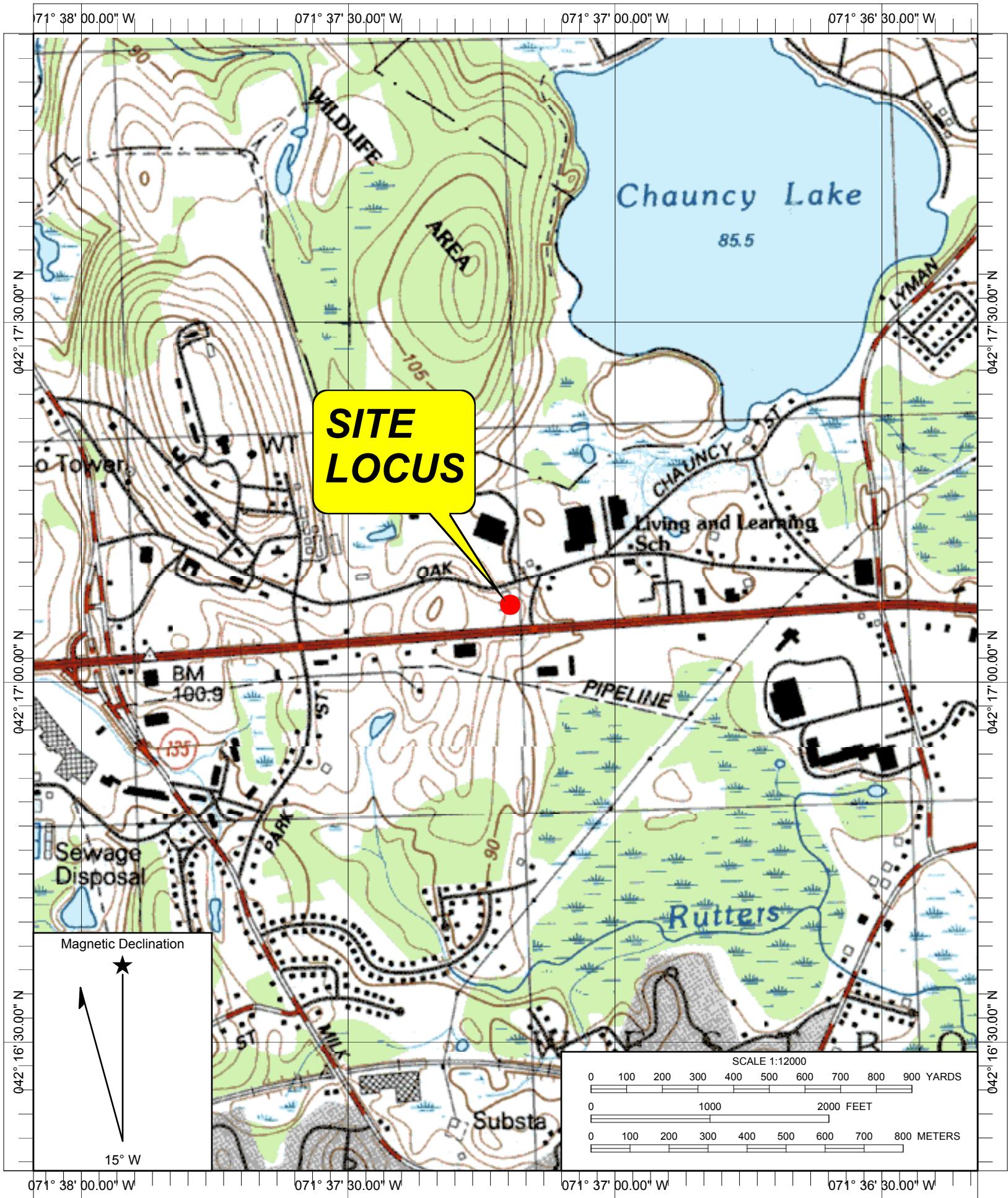
No deviations from the verbally-approved IRA Plan have occurred at the Site, and there are no current modifications proposed at this time. Should deviations from this IRA Plan become necessary, an IRA Plan Addendum will be submitted to the MassDEP.

12.0 PUBLIC NOTIFICATION

Appendix B includes copies of the notification letters submitted to the chief municipal officer and board of health.

FIGURE 1

SITE LOCUS MAP



Name: MARLBOROUGH
Date: 5/14/2010
Scale: 1 inch equals 1000 feet

Location: 042° 17' 06.73" N 071° 37' 12.41" W NAD 27
Caption: Figure 1 Site Locus Map
183 Turnpike Road (Rte 9)
Westborough, MA

FIGURE 2

SITE LAYOUT

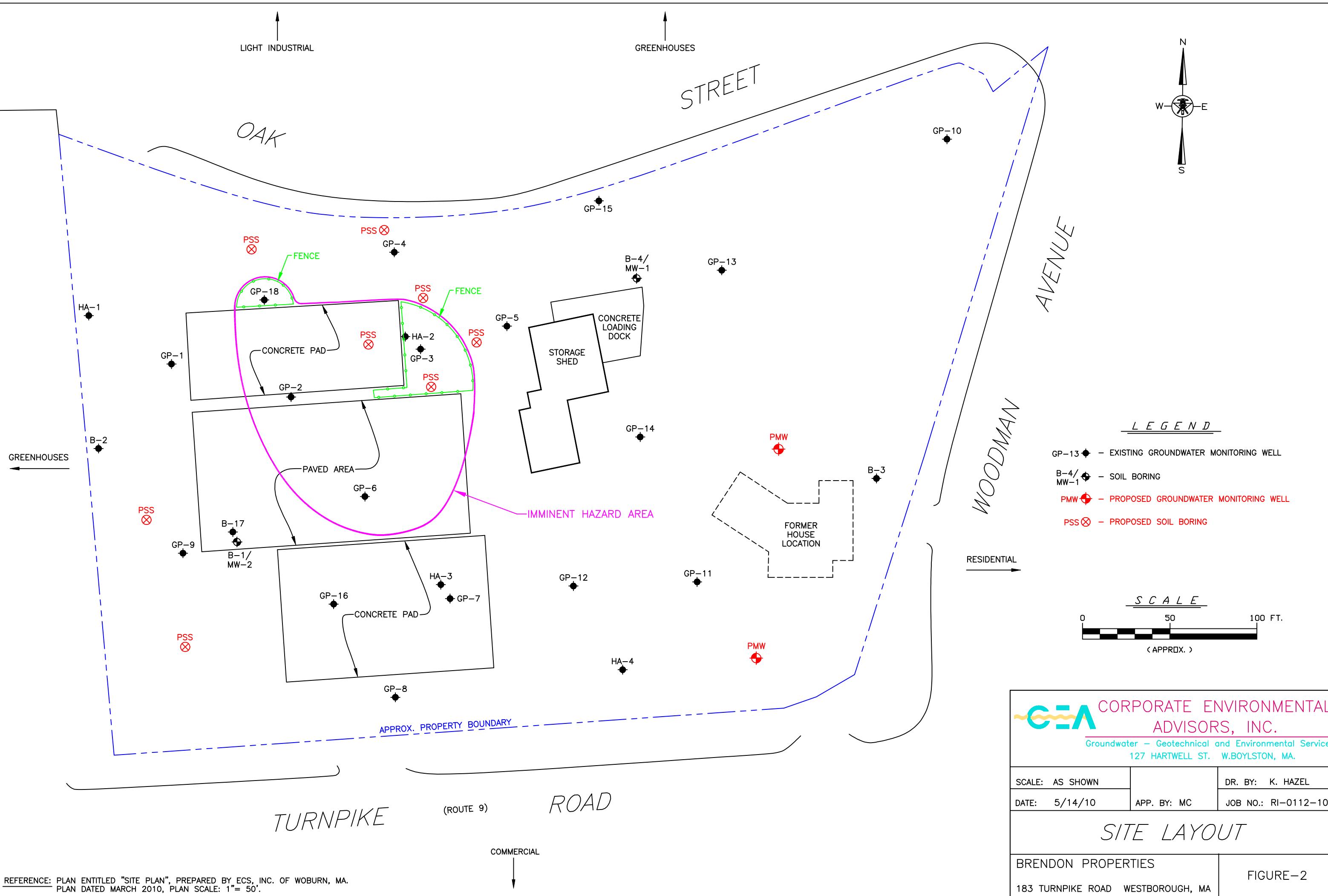
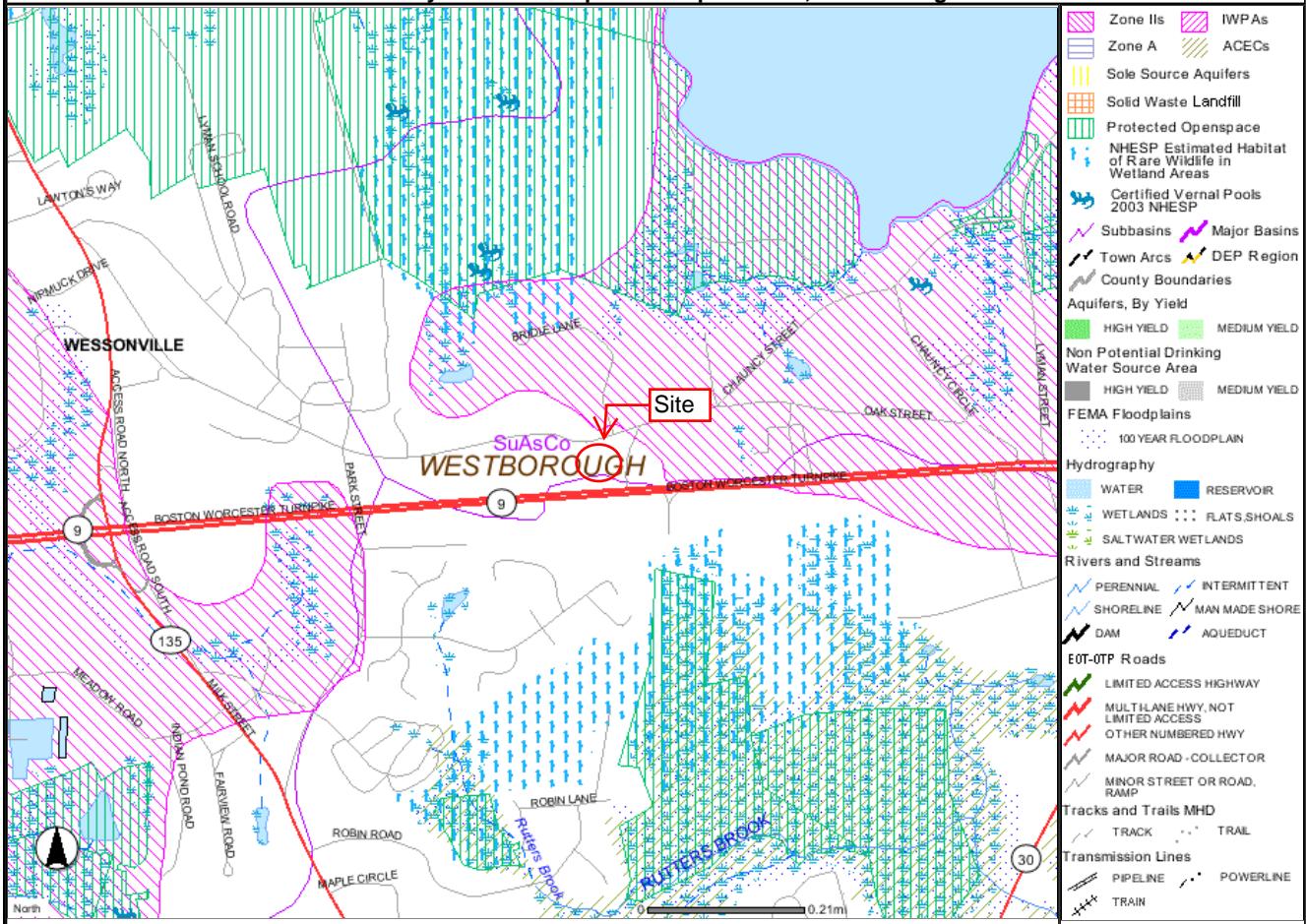


FIGURE 3

MASSDEP BWSC SITE SCORING MAP

DEP Priority Resource Map 183 Turnpike Road, Westborough MA



APPENDIX A

COPY ECS SUBSURFACE ASSESSMENT REPORT
DATED MARCH 19, 2010



**ASTM PHASE I & II
ENVIRONMENTAL SITE
ASSESSMENT**

**FORMER GREEN THUMB
NURSERY
183 TURNPIKE ROAD
WESTBOROUGH,
MASSACHUSETTS**

WHERE BUSINESS AND THE ENVIRONMENT CONVERGE

Prepared for:
Warren Equities
27 Warren Way
Providence, RI

Project No. 05-213212
March 19, 2010

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TABLE OF CONTENTS

1.0 OBJECTIVES, SCOPE, LIMITATIONS AND RELIANCE.....	1
1.1 OBJECTIVE	1
1.2 SCOPE OF WORK AND LIMITATIONS	1
1.3 RELIANCE	1
2.0 PREVIOUS REPORTS	2
3.0 CURRENT SITE CHARACTERISTICS	5
3.1 GENERAL SITE CHARACTERISTICS	5
3.2 FIRE DEPARTMENT RECORDS	6
3.3 SITE IMPROVEMENTS	7
3.4 ADJOINING PROPERTIES	8
4.0 SITE HISTORY.....	9
4.1 INTERVIEW SUMMARY.....	9
4.2 HISTORICAL DOCUMENT REVIEWS.....	10
4.3 SUMMARY OF SITE AND AREA HISTORY	12
5.0 SITE GEOLOGY AND HYDROLOGY	13
6.0 REGULATORY INFORMATION.....	13
6.1 ON-SITE DATABASE LISTINGS.....	14
6.2 ADJOINING AND SURROUNDING PROPERTY DATABASE LISTINGS	14
6.3 NON-GEOCODED PROPERTIES	15
7.0 SITE RECONNAISSANCE	16
7.1 PETROLEUM AND HAZARDOUS MATERIALS, USE, STORAGE, AND GENERATION.....	16
7.2 FLOOR DRAINS, SUMPS, PITS AND LAGOONS	17
7.3 ELECTRICAL TRANSFORMERS AND PCB RELATED EQUIPMENT	17
7.4 SOLID WASTE DISPOSAL.....	17
7.5 STAINED SURFACES AND DISTRESSED VEGETATION	17
8.0 SUBSURFACE INVESTIGATION	18
8.1 SOIL BORING ADVANCEMENT & INSTALLATION OF GROUNDWATER MONITORING WELLS....	19
8.2 SOIL SAMPLING.....	21
8.3 CHARACTERIZATION OF SUBSURFACE SOILS	21
8.4 FIELD SCREENING & LABORATORY ANALYSIS OF SOIL AND GROUNDWATER SAMPLES	21
9.0 LABORATORY ANALYTICAL RESULTS	23
9.1 SOIL SAMPLING & ANALYTICAL RESULTS	23
9.2 GROUNDWATER SAMPLING AND ANALYTICAL	24
10.0 FINDINGS AND ENVIRONMENTAL PROFESSIONAL OPINION	23
10.1 ENVIRONMENTAL SITE CONDITION FINDINGS	23
10.2 DATA GAPS AND OPINION	23
10.3 RATIONALE FOR IDENTIFICATION OF RECOGNIZED ENVIRONMENTAL CONDITIONS	23

TABLE OF CONTENTS (continued)

11.0 CONCULSIONS.....	25
12.0 REFERENCES	27
12.1 RESOURCES CONSULTED	27
12.2 AGENCIES CONTACTED	27
13.0 ENVIRONMENTAL PROFESSIONAL'S DECLARATION.....	30

FIGURES:

- | | |
|----------|------------|
| Figure 1 | Site Locus |
| Figure 2 | Site Plan |

TABLES:

Soil Analytical Tables

- | | |
|---------|--|
| Table 1 | Concentrations of Volatile Petroleum Hydrocarbons |
| Table 2 | Concentrations of Extractable Petroleum Hydrocarbons |
| Table 3 | Concentrations of Dissolved Metals |
| Table 4 | Concentrations of Volatile Organic Compounds |
| Table 5 | Concentrations of Organochlorine Pesticides |
| Table 6 | Concentrations of PCBs |

Groundwater Analytical Tables

- | | |
|----------|--|
| Table 7 | Concentrations of Volatile Petroleum Hydrocarbons |
| Table 8 | Concentrations of Extractable Petroleum Hydrocarbons |
| Table 9 | Concentrations of Volatile Organic Compounds |
| Table 10 | Concentrations of Dissolved Metals |
| Table 11 | Concentrations of Organochlorine Pesticides |

APPENDICES:

- | | |
|------------|--|
| Appendix A | Photographs |
| Appendix B | Municipal Files |
| Appendix C | User Questionaire |
| Appendix D | Sanborn Fire Insurance Maps |
| Appendix E | City Directories |
| Appendix F | Aerial Photographs/Historical Topographic Maps/Aquifer and Watershed Map |
| Appendix G | FirstSearch™ Environmental Database Report |
| Appendix H | Boring Logs |
| Appendix I | Analytical Reports |
| Appendix J | Resume of Environmental Professional and Inspector |

1.0 OBJECTIVES, SCOPE, LIMITATIONS AND RELIANCE

1.1 OBJECTIVE

Environmental Compliance Services, Inc. (ECS) performed an ASTM Phase I and Phase II Environmental Site Assessment of 183 Turnpike Road, in Westborough, Massachusetts (the Site). The purpose of ECS's investigation was to identify and record existing, potential or suspected conditions that may impose an environmental liability to, or restrict the use of the property¹ and to identify evidence of a release or a potential release of oil and hazardous materials (OHM), as defined by the Massachusetts Oil and Hazardous Materials Release Prevention and Response Act, Chapter 21E of the Massachusetts General Laws or the Massachusetts Contingency Plan (310 CMR 40.0000).

1.2 SCOPE OF WORK AND LIMITATIONS

The assessment was performed at the request of Mr. Joseph Campisi of Warren Equities, Inc. in accordance with the project Scope of Services dated January 4, 2010 and change orders dated February 4, 2010 and February 22, 2010. This assessment conforms to American Society for Testing and Materials (ASTM) Standard E1527-05 (*Standard Practice for Environmental Assessments of Commercial Properties: Phase I Assessment Process*). The scope of work has not been expanded to include business environmental risks as defined by ASTM Standard Practice E 1527-05. No air, building material, or waste sampling was performed. There were no significant deviations from the ASTM requirements.

1.3 RELIANCE

This report was prepared for Warren Equities, Inc. (the User of this report as defined by ASTM) and is not to be relied upon by any other party without the written authorization of ECS. Use and/or reliance on this report are subject to all limitations specified in ASTM Stand Practice E 1527-05 and/or as specifically noted in the report itself.

¹ This includes identifying "Recognized Environmental Conditions", as defined in ASTM E1527-05. This term will be used to mean the presence or likely presence of any hazardous substance or petroleum product on the site under conditions that indicate an existing release, a past release or a material threat of a release into structures on the site or into the ground, groundwater or surface water. The term is not intended to include de minimis conditions that generally do not present a material risk to the public health or the environment and that generally would not be the subject of an enforcement action if brought to the attention of the appropriate government agencies.

2.0 PREVIOUS REPORTS

ECS has summarized the available reports associated with the site below.

Phase I Environmental Site Assessment (ESA), IRWIN Engineers, Inc., June 13, 2006

On June 13, 2006 IRWIN Engineers Inc. prepared an ASTM Phase I Environmental Site Assessment for site, on the behalf of McCarthy Realty, LLC. The purpose of the investigation was to identify the presence and/or absence of Recognized Environmental Conditions (REC's).

According to the report, the Site has been utilized as a residence and nursery since Robert McGoldrick purchased the property in 1950. Prior to 1950 the property was agricultural land.

The Site assessed by Irwin was comprised of Parcel 13 (2.412 acres) and Parcel 13A (1.15 acres) located in the north central part of the town of Westborough, Massachusetts. The owner of record for Parcel 13 and Parcel 13 A were listed as Lawrence McGoldrick Trustee and June McGoldrick, respectively. At the time of the ESA the Site was occupied by one residential structure on Parcel 13A and, on Parcel 13, one commercial building housing a store, an office, a garage, four greenhouses and a number of storage structures.

This assessment revealed the following findings:

- The presence of one 10,000-gallon fuel oil underground storage tank (UST) and associated underground piping on the Parcel 13 portion of the Site, approximately 40-50 years old. The UST was reported to be abandoned in-place without a permit from the Westborough Fire Department. The assessment also identified evidence that the UST is currently in use for the accumulation of waste materials or fuel with the necessary design features required by Fire Prevention Regulations.
- The presence of one 2,000-gallon fuel oil UST associated with the heating system for the single family residence on the Parcel 13A portion of the Site. The UST was assumed to be single walled steel and approximately 53 years old.
- Both Parcels were reportedly serviced by septic systems; given the ages of the structures there may be cesspools associated with the septic systems.
- Documentation at the Fire Department indicated that presences of a 4,000-gallon heating oil UST dated 1976 and no closure documentation. The owner indicated that the UST was located on another parcel of land across the street from the Site.
- Documentation at the Fire Department indicated that presences of a 200-gallon gasoline UST dated 1955 with no reference to location and no closure documentation. The owner did not recall specifics regarding this UST.

The acknowledged practice of disposal of pesticide container rinse waters onto the ground at the property immediately adjacent to and up gradient from the Site.

IRWIN Engineers concluded that:

- The 10,000-gallon UST is in noncompliance with the requirements for the abandonment of an UST and associated piping, in accordance with 527 CMR 9.07(J), and constitutes a REC. IRWIN recommended that the 10,000-gallon UST and associated piping, which was reportedly abandoned in place to be removed immediately following the applicable regulations.
-
- The 2,000-gallon UST was active and the presence of an active UST indicates a potential threat release of petroleum products and may be considered a potential REC as there are no indication that the tank system has failed. IRWIN recommended that the 2,000-gallon UST and associated piping, which was reportedly abandoned in place to be removed immediately following the applicable regulations.
- Historical records from the Fire Department suggested the possible presence of 4,000-gallon oil and 200-gallon gasoline USTs at the Site maybe suspect as the Site owner had no recollection that they may or may not be on the Site. If known to be present on the Site, the abandoned USTs would be considered a REC; however, there is no confirmation that these USTs existed on the Site.
- The acknowledge practice of disposal of pesticide container rinse waters onto the ground at the property immediately adjacent to and up gradient from the Site where a migrating release might be expected to flow with groundwater onto the Site. The Site is located within 500 feet of a potential drinking water supply area and the potential for transport of hazardous materials to that receptor would have to be considered if a reportable release is discovered on the Site.

Underground Storage Tank Removal Report, IRWIN Engineers, Inc., August 2, 2006

Irwin prepared a report dated August 2, 2006 summarizing the UST removal activities at the Site. Irwin Engineers, Inc. observed the removal of a 10,000-gallon UST from the Site on July 18, 2006. The UST was reportedly used to store heating oil for the oil-fired heating system at the nursery. During the Phase I investigations performed by IRWIN Engineers, the owner of the property indicated that the UST had been abandoned in place and was not in use. United Industrial Services indicated on a work order dated May 5, 2006, that 2,400-gallons of used motor oil had been pumped out of the UST. Based on the information stated in the United Industrial Services, Mr. Bob McGoldrick (site owner) confirmed the information on the work order was correct. Irwin Engineers subsequently notified the Westborough Fire Department that the UST was not abandoned and was still in use.

At the time of the UST removal, soil samples were collected from the excavation bottom near the area beneath the fill piping, the south sidewall and from the stockpile of material excavated from around the UST. Irwin Engineers screened three soil samples for volatile organic compounds (VOCs) with a photoionization detector (PID), recording no readings higher than 0.4 parts per million (ppm). Samples were analyzed for the presence of extractable petroleum hydrocarbons (EPH), polychlorinated biphenyls (PCBs) and RCRA 8 metals, based on the information that the UST was utilized for the storage of used motor oil rather than heating oil. According to the report, no reportable concentrations of any hydrocarbons, PCBs, or metals were found based on a comparison to RCS-1 criteria.

Irwin Engineers concluded, that there was no indication of a release to the subsurface at the Site associated with the 10,000-gallon UST used for heating oil and waste oil storage. Irwin Engineers conclusion was based on the laboratory results, soils in the excavation indicate no reportable concentrations of oil or hazardous material (RCS-1) are present in the area from which the UST was removed.

3.0 CURRENT SITE CHARACTERISTICS

3.1 GENERAL SITE CHARACTERISTICS

The site characteristics, as determined at the time of this Phase I Environmental Site Assessment, are summarized below. **Figure 1** is a Site Locus. **Figure 2** is a Site Plan. Photographs are provided in **Appendix A**. A copy of the current Tax Assessor's office property card is provided in **Appendix B**.

PROJECT SUMMARY TABLE					
Site Name:			Green Thumb Nursery		
Site Address:			183 Turnpike Road		
City:	Westborough	County:	Worcester	State:	Massachusetts
Tax Map designation:		185 Turnpike Road		Map 33 Parcel 13	
		183 Turnpike Road		Map 33 Parcel 13A	
Property Area:		Building Footprint:			
Parcel 13:	2.412 Acres	Parcel 13:		25'X45' Two bay garage	
Parcel 13A:	1.15 Acres	Parcel 13A:		Vacant	
Year Built:		Renovations:			
Parcel 13:	1965	Parcel 13:		Greenhouses and attached buildings demolished 6/1/09	
Parcel 13A:	1953	Parcel 13A:		Demolished Dwelling: 6/12/09	
Number of Stories:		Basement:			
Parcel 13:	Single story	Parcel 13:		None	
Parcel 13A:	Vacant	Parcel 13A:		Cellar hole	
Land Use:		Business:			
Parcel 13:	Two bay garage	Parcel 13:		Brendon Properties Three LLC	
Parcel 13A:	Vacant	Parcel 13A:		Vacant	
Last Sale Date		Property Owner			
Parcel 13:	9/7/2006	Parcel 13:		Brendon Properties Three LLC	
Parcel 13A:	9/7/2006	Parcel 13A:		Brendon Properties Three LLC	
Site Occupants					
Parcel 13:		Brendon Properties Three LLC			
Parcel 13A:		Brendon Properties Three LLC			
Heating Source:	No Heat in the Garage building located on Parcel 13.	Heating Fuel: None		Storage:	None
Floor Drains:		No			
Site Utilities:					
Municipal Sewer		No			

On-Site Septic System		Yes,
	Parcel 13:	Unknown
	Parcel 13A:	Demolished in place;
Municipal Water		Yes
On-Site Drinking Water Well		No
ECS Personnel:		Eric Kaatz
Accompanied/Escorted By:		Unaccompanied
Inspection Date/Time:		1/15/2010 10:00 am

3.2 FIRE DEPARTMENT RECORDS

ECS searched records maintained by the Westborough Fire Department pertaining to USTs and fire department responses to the Site. No record of spills were found in the files for either property. Department records indicated that there were no issues with the removal and disposal of USTs removed from either Parcel 13 or Parcel 13A Site in July 2006 and May 2009, respectively.

Records found in the property files are summarized below:

Parcel 13:

A permit and application dated July 3, 2006 was issued to Mr. McGoldrick at the 185 Turnpike Road property for the removal of a 10,000-gallon heating oil UST. Additional remarks on the permit indicate that the UST was allegedly used for the storage of used motor oil.

A hand written note by Fire Chief Walter Perron, dated July 12, 2006 was found in the file referring to the removal of a UST at the property. No indication of the size or location of the UST was mentioned, however it was noted that there was no indication of a release associated with the tank.

On July 18, 2006, Firefighter/Inspector Chris Knight of the Westborough Fire Department visited the 185 Turnpike Road (Parcel 13) property at the request of the owner Mr. McGoldrick in order to observe the UST removal activities at the Green Thumb Nursery. Prior to the arrival of the Fire Department, D.J. Trucking had excavated an approximately 10,000-gallon heating oil UST, located in the vicinity of the garage at the southwestern corner of the property. According to the report issued by the Fire Department, Mr. McGoldrick stated that the tank had not been in use for a number of years and the fill port/connection had been removed sometime in the past. IRWIN Engineering was onsite in order to collect soil samples from the tank grave. Mr. Knight mentioned in his report that the tank was in good condition and the excavation did not exhibit signs of a release.

Parcel 13A (Residential Property):

The Westborough Fire Department issued a fuel storage permit to the 183 Turnpike Road property on November 18, 1976, for the storage of heating oil in an UST. No indications of size and location of UST is noted on the permit. At the bottom of the permit there is mention of a 1,000-gallon UST being removed and replace by a 4,000-gallon UST, November 18, 1977. Based on the previous Phase I report conducted by IRWIN, Mr. McGoldrick stated that the 4,000-gallon UST was located on the parcel of land which he owned across Oak Street from the site.

There is also a note that the property had a permit for a 200-gallon gasoline UST, February 9, 1955. Mr. Goldrick was also interview by IRWIN regarding this UST, as indicated in the IRWIN report Mr. McGoldrick indicated that an AST was used to fuel trucks.

The Westborough Fire Department had one permit (# 27328) and associated permit application on file for the removal and transportation of a UST from the 183 Turnpike Road property to JC Tombarello Tank Yard for disposal.

Firefighter/Inspector Chris Knight, Westborough Fire Department, responded to the 183 Turnpike Road property (Parcel 13A) on May 13, 2009 in order to observe the removal a 2,000-gallon UST. Prior to Mr. Knight's arrival on at the Site, the UST was reportedly unearthed and any liquid was removed by Cyn Environmental. Cyn Environmental generated a waste material profile form which indicated that approximately 300-400 gallons of Number 2 Fuel Oil was removed via a vacuum truck. Mr. Knight noted there did not appear to be any discolored dirt or smell in the excavation area around the UST. The UST was removed from the Site on May 14, 2009, and shipped to 28 Walcott Street, Readville MA. for disposal.

Oil Burner – Furnace Cards

The Westborough Fire Department had no records indicating the former use of an oil burner at either of the residential property or the former Green Thumb Nursery Site.

3.3 SITE IMPROVEMENTS

The Site consists of a two parcels of land, identified as Parcels 13 and Parcel 13A on Map 33 on the Westborough Assessor's Map.

Parcel 13:

Parcel 13 is a vacant parcel of land encompassing 2.412 acres of land which was formerly occupied by the Green Thumb Nursery. Located in the northeast corner of Parcel 13 there is a two bay garage building and attached storage building. The remaining structures associated with the nursery were removed from the Site in June 2009. The concrete slab which these structures rested on remain in place. A building permit dated June 1, 2009 indicated the structures to be removed were the greenhouses and attached buildings, the existing concrete slab were to remain.

Parcel 13A:

Parcel 13A is a vacant parcel of land encompassing 1.15 acres of vegetated land which was formerly occupied by a residential dwelling located at the southern portion of the property. A demolition permit application, dated May 11, 2009 was found at the Westborough Building Department. During the site reconnaissance, ECS observed the wood frame structure to have been removed and the concrete foundation and slab remains. Access to the site is also via a short driveway from Woodman Avenue, border the property to the east. This driveway provides access to the garage portion of the basement. The majority of the Site is vegetated with a short driveway entering the Site from the east along Woodman Avenue.

The septic tank was located to the northeast of the structured, prior to the demolition of the tank.

3.4 ADJOINING PROPERTIES

General observations of adjoining properties were performed in conjunction with ECS' site inspection on January 15, 2010. The following uses were identified on adjoining properties.

DIRECTION	DESCRIPTION
<i>North</i>	The Site is bound to the north by Oak Street Located to the north of Oak; the northern adjoining properties include: <ul style="list-style-type: none">• a vacant wooded lot located to the east of Bridle Avenue;• gravel parking lot associated with the Northstar Youth Forum ice rink;• a vacant wooded lot located to the west of the ice rink.
<i>South</i>	Turnpike Road (Route 9) borders the entire southern portion of the property. South of Turnpike road properties include: <ul style="list-style-type: none">• Curry Painting (southwest): 190 Turnpike Road;• Office building (south): 182 Turnpike Road;• Office building (southeast): 180 Turnpike Road.
<i>East</i>	Woodman Avenue, undeveloped wooded lots and residential dwellings: <ul style="list-style-type: none">• 4 Woodman Avenue;• 2 Woodman Avenue.
<i>West</i>	Green Thumb Nursery: 187 Turnpike Road

4.0 SITE HISTORY

Information pertaining to site ownership, structures, and usage and storage of oil and/or hazardous materials was obtained through interviews with knowledgeable parties, reviews of previous reports, Sanborn Fire Insurance Rate Maps, historical street directories, aerial photographs, historical topographic maps and miscellaneous site plans when such sources were readily available.

4.1 INTERVIEW SUMMARY

4.1.1 Owner or Knowledgeable Party Interview

ECS was unaccompanied during the Site inspection.

4.1.2 User Questionnaire

The Small Business Liability Relief and Brownfield Revitalization Act of 2001 requires that the user provide certain information to the environmental professional in order to qualify for one or more of the Landowner Limited Protections. Mr. Allen Hight, representative from Brendon Properties, was provided a questionnaire. No affirmative responses were made. A copy of the user questionnaire is included as **Appendix C**.

4.1.3 Occupant Interview

ECS conducted a telephone interview with Mr. Allen Hight, the Brendon Properties representative. Mr. Hight informed ECS that Brendon Properties purchased the two properties approximately three years ago. According to the Westborough Tax Assessors office the last date of purchase was on September 7, 2006, the Grantor was listed as McGoldrick.

The two bay garage building, located at the northeastern corner of Parcel 13 is occupied by several pieces of landscaping equipment owned by Brendon Properties. Mr. Hight had no knowledge of hazardous materials being stored in the building. Based on the conversation with Mr. Hight, ECS was informed that the garage building is unheated and there are no known floor drains.

Mr. Hight has no information as to the locations of the septic systems associated with the former Green Thumb Nursery. ECS contacted Mr. Michael Scott, Waterman Design Associates, Inc. for information regarding the location of the septic system. Waterman Design Associates, was contracted by Brendon Properties to conduct a survey of the two parcels, with the prospect of future development.

Waterman Designs provided ECS with an A-1 Survey Map. The detailed map of the site indicated that there was a septic manhole cover located along the western property boundary. During the site reconnaissance, ECS personnel could not locate the noted manhole cover.

4.1.4 Other Parties Interviewed

ECS interviewed representatives of the Westborough Assessors, Building, Health, and Fire Departments. Information obtained from the Fire Department is included in Section 3.2. Property tax cards were obtained from the Assessors Office.

The Building Department had permits for the following:

- Receipt of Disposal of steel UST; Tombarello & Sons disposal yard for a 1,000-gallon UST from the Green Thumb property, dated October 23, 2001.
- Receipt of Disposal of steel UST; Tombarello & Sons disposal yard for a 5,000-gallon UST from the Green Thumb property, dated October 23, 2001.
- Permit for the removal of a 10,000-gallon heating oil UST from the Green Thumb Nursery property, Parcel 13; dated August 3, 2006.
- A1 Spectrum Services asbestos removal reports for Parcel 13 and Parcel 13A dated March 24, 2009 and May 11, 2009.
- Permit for the removal of a 2,000-gallon heating oil UST from then residential property, Parcel 13A; dated May 13, 2009.
- Demolition permits for the demolition of the structures on the Green Thumb Nursery property, Parcel 13 and the Residential property, Parcel 13A, dated June 2009.

Building Department records indicate that the two Steel USTs were properly disposed of in October 2001. Based on municipal file reviews, previous environmental reports, and interviews with the current property owner, there is no indication of the former locations of these USTs. Based the disposal receipts, ECS determined that the USTs have been removed from the site and properly disposed of at Tombarello & Sons disposal yard.

ECS made an inquiry at the Board of Health for both properties for potential records including permits for septic systems, environmental issues at the Site and private drinking water wells on record in the vicinity of the property.

No files were found for the Residential property, Parcel 13A. However, the Green Thumb filed contained one complaint on record. According the Board of Health citation there was a complaint of a “odorous black smoke” being emitted from the greenhouses in 1986. The representative from the Board of Health indicated that the Green Thumb Nursery used coal to heat their greenhouses at one time.

4.2 **HISTORICAL DOCUMENT REVIEWS**

4.2.1 Sanborn Fire Insurance Maps

There is no Historical Sanborn Fire Insurance Maps coverage of the Site. A Certificate of No Coverage is included as **Appendix D**.

4.2.2 Historical Street Directories

ECS reviewed 1966 to 2007 Westborough, MA city directories in approximate five year intervals which were provided by FirstSearch™ Technology Corporation (FSTC). Copies of the city directory search are included as **Appendix E**. Listings for the Site address are provided below:

YEAR	LISTING	
	ADDRESS	BUSINESSES
2007	183 Turnpike Road	Occupant Unknown
	187 Turnpike Road	Green Thumb Garden Center
2004	183 Turnpike Road	Occupant Unknown
	187 Turnpike Road	Green Thumb Garden Center
1999	183 Turnpike Road	Residential Listing
	187 Turnpike Road	Green Thumb Garden Center
1997	183 Turnpike Road	Residential Listing
	187 Turnpike Road	Green Thumb Garden Center
1992	183 Turnpike Road	Green Thumb Retail; McGoldrick Robert P.
	187 Turnpike Road	No Listing
1968	183 Turnpike Road	No Listing
	187 Turnpike Road	No Listing
1966	183 Turnpike Road	No Listing
	187 Turnpike Road	No Listing

4.2.3 Aerial Photographs

ECS examined aerial photographs obtained from <http://terraserver.microsoft.com> for the year 1995. The site and surrounding area appears to be developed to its current extent in all of the photographs reviewed. Copies of the aerials photographs are provided as **Appendix F**.

4.2.4 Historical Topographic Maps

Historical topographic maps were viewed on-line at <http://docs.unh.edu/nhtopos/nhtopos.htm> and <http://terraserver.microsoft.com> for the years 1898, 1917, 1943 and 1953. The maps reviewed indicate that Turnpike Road, Woodman Avenue and Oak Street are present as far back as 1898. A small structure first appears on Parcel 13A on the 1943 map. Two other structures appear in the vicinity of the Parcel 13 property on the 1953 map. Copies of the historical topographic maps are provided as **Appendix F**.

4.3 SUMMARY OF SITE AND AREA HISTORY

4.3.1 Site History

Parcel 13:

This portion of the Site has been used as a nursery since the 1950's and was occupied by a commercial building, a garage utilized for maintenance, four greenhouses, and several building utilized for storage. Prior to Parcel 13 being utilized as a nursery, the property was in use as agricultural land.

Parcel 13A:

Parcel 13A was formerly occupied by a single family home, reportedly constructed in 1953. The wood frame structure was removed from the property in June 2009, at this time the concrete foundation remains. According to records at the Westborough Building Department the septic system and 2,000-gallon heating oil UST were removed from the property at the time of the demolition. Prior to Parcel 13A being occupied by the single family residence, the property was in use as agricultural land.

4.3.2 Area History

The surrounding area appears to have been developed since the 1940s.

5.0 SITE GEOLOGY AND HYDROLOGY

Information pertaining to the potential contaminant migration pathways and sensitive environmental receptors is summarized below.

GEOLOGY AND HYDROLOGY SUMMARY	
Elevation:	Approximately 325 feet above mean sea level
Site Slope:	Generally flat sloping, down to the east.
Regional Surface Drainage Patterns	North-northeasterly
Estimated Depth to Groundwater:	13-19 ft bgs
Estimated Groundwater Flow Direction:	Inferred north-northeast
State GW Criteria/Standards:	RCS-1, Method 1 GW-1, GW-2, and GW-3
Sensitive Environmental Receptors:	Chauncy Lake and Aquifer associated with the municipal drinking water wells located approximately 0.5 miles north of the site.
Flood Plain Designation:	Zone C: Areas of minimal flooding
Flood Plain Map:	250344-0002-B
Flood Plain Map Date:	May 15, 1980
Soil:	Sands with boulders over shallow bedrock.
Bedrock:	Amphibolite, gneiss, and biotite schist.
Bedrock Outcroppings	No

The northeastern portion of the property falls within 500 feet of a Zone II Aquifer Boundary, this boundary is associated with the Chauncy Lake Aquifer, located to the north of the site. The site is located within a Town of Westborough Zone III (contributing recharge area) aquifer protection district, therefore Method 1 GW-1 standards apply to the Site. A copy of the Aquifer and Watershed Protection Districts map for the Town of Westborough Massachusetts, is included as **Appendix F**.

No other sensitive environmental receptors were observed at the site or within the immediate areas surrounding the site.

6.0 REGULATORY INFORMATION

ECS obtained a commercial environmental database search from FirstSearch™ Technology Corporation (FSTC). The search distances are consistent with those specified in ASTM Phase I assessment guidelines. Databases searched and search distances are provided in **Appendix G**.

6.1 ON-SITE DATABASE LISTINGS

The Site is not listed on any of the databases listed on the FSTC databases reviewed.

6.2 ADJOINING AND SURROUNDING PROPERTY DATABASE LISTINGS

Records pertaining to nearby listed properties of concern based in close proximity to the Site are summarized below. The risk posed to the Site from these properties is discussed following the table.

Location	Database Listing	Proximity to Site	Environmental Condition	Recognized Environmental Condition (REC)
190 Turnpike Road	RCRAGN	0.09 SW	Unknown	YES
15 Bridle Lane	RCRAGN	0.14 NW	Unknown	NO
165 Turnpike Park	STATE	0.20 NE	TCE, Chlorodibromomethane, and C11 thru C22 Aromatic Hydrocarbons	NO
42 Lyman Street	STATE	0.60 NE	Gasoline	NO

Curry Printing and Copy Center located at 190 Turnpike Road is listed as a very small quantity generator (EPA ID MAD019500164) of an unknown waste. The facility has several violations for container management on March 22, 1993 issued by the State of Massachusetts. Based on the information in the FSTC report the issues were resolved on April 22, 1993. No additional information was provided in the report.

North Star Youth Forum located at 15 Bridle Lane is listed as a very small quantity generator (EPA ID MV 5083661562) of an unknown waste, since January 1, 2007. No additional information was provided in the FSTC report.

The Turnpike Park Cooperative located at 165 Turnpike Park is listed as a State Site (ID 2-0017202) based on a release of the chlorinated solvent tetrachloroethylene (PCE) and EPH in August 2008. According to the FSTC report the Phase I Report and Tier Classification have been filed with the Massachusetts Department of Environmental Protection (MassDEP) as of August 13, 2009. ECS reviewed the Phase I Report and Tier Classification for this site, prepared by O'Rielly, Talbot & Okun in August 2009. According to this report PCE and EPH concentration have been found in groundwater at concentrations which exceeded the reportable concentrations and applicable Method 1 standards. Soils were not found to exceed standards. The site has been classified as a Tier 1C based on the Tier I Inclusionary Criteria (310 CMR 40.0520 (2)(a), which states that sites located in a Zone II classified area with groundwater contamination exceeding the RCGW-1 Reportable Concentrations at the time of Tier

Classification are classified as Tier I. O'Rielly, Talbot & Okun filed a Tier IC Permit with the DEP at the time this report was completed.

Based upon distance, area topography and/or facility status of these locations, neither are likely to represent an REC with respect to the subject site.

6.3 NON-GEOCODED PROPERTIES

Fifty nine records were identified at “non-geocoded” locations. Although the exact locations of many of these incidents could not be confirmed, none appear to pertain to the site, adjoining properties or locations where releases would reasonably be expected to impact the subject site.

7.0 SITE RECONNAISSANCE

Mr. Eric Kaatz of ECS conducted a site visit on January 15, 2010. The majority of the property was vacant and the residential dwelling and greenhouses associated with the Green Thumb Nursery were demolished in 2009. At the time of the site visit the ground was by snow covered. There was a two-bay garage and storage shed still located on the northeastern portion of Parcel 13. At the time of the Site visit there were two plow trucks owned by Brendon Properties located in this building. ECS was not provided access to the interior of the building at the time of the inspection. On February 16, 2010, during the sub-surface investigation, ECS was provided access to the interior of the building by an employee of Brendon Properties. According this employee the building is not heated and there is no water supply to the building. Upon entering the building, ECS observed that the building was primarily used for vehicle storage.

ASSESSMENT CONCERNS	YES OR NO	REF. SECTION
Hazardous Materials Use, Storage, and Waste Generation	No	7.1
Floor Drains, Sumps, Pits and Lagoons	No	7.2
PCB Related Equipment and/or Electrical Transformers	Yes	7.3
Solid Waste Disposal	No	7.4
Stained Soil and Distressed Vegetation	No	7.5

7.1 PETROLEUM AND HAZARDOUS MATERIALS, USE, STORAGE, AND GENERATION

7.1.1 Hazardous Materials Use and Storage

No hazardous waste storage area was observed. The garage which houses the plow trucks for Brendon properties could not be accessed at the time of the site walk. It could not be determined if there were hazardous materials stored in this building. Based on a telephone interview with Mr. Hight, as discussed in section 4.1.3 of this report, he had no knowledge of hazardous materials stored at the facility.

7.1.2 Petroleum Use and Storage

As discussed in Section 3.1, heating oil and waste oil was formerly stored on Parcel 13 in a 10,000-gallon and heating oil was stored on Parcel 13A in a 2,000-gallon UST. These USTs were removed from the properties in 2006 and 2009, according to permits found in the Westborough Building Department files for the Site.

Fire Department records indicated the presence or former presence of a 200-gallon gasoline UST and a 4,000 gallon UST. Building department records included disposal receipts for 1,000 gallon and 5,000 gallon USTs dated October 2001, indicating that other USTs may have historically been present on the property; however, no other records or information was found regarding the location or contents related of these USTs.

Based on a telephone conversation with Mr. Allen Hight, ECS was informed that Brendon Properties does not store petroleum based materials in containers larger than five-gallons in their garage.

Observations during the site walk did not reveal evidence of any vent pipes, ASTs, USTs or indications that petroleum products were stored in bulk at the site.

7.1.3 Hazardous Waste Generation and Disposal

There is no evidence of hazardous waste generation or disposal at the property.

7.2 FLOOR DRAINS, SUMPS, PITS AND LAGOONS

Mr. Allen Hight informed ECS, to the best of his knowledge there are not any floor drains in the garage building located on Parcel 13, ECS was not provided access to the building at the time of the site inspection to confirm this.

All other buildings have been demolished leaving only the concrete foundations in place. During the Site walk the site was covered with snow, therefore the concrete slabs could not be observed for signs of floor drains. However on March 3, 2010, ECS returned to the site when it was free of snow and inspected the concrete slabs. Based on these observations perforations in the floors of these foundations, which would be indicative of floor drains, were not observed.

7.3 ELECTRICAL TRANSFORMERS AND PCB RELATED EQUIPMENT

One pole mounted transformer was observed on the western side of Woodman Avenue in the vicinity of the driveway to the residential dwelling at the 183 Turnpike property. No labels indicating the presence of PCBs were observed. There appeared to be staining down the sides of the transformer; however, no staining was observed on the ground in the vicinity of the pole.

7.4 SOLID WASTE DISPOSAL

There are no dumpsters located on the property.

Located at the northeastern portion of Parcel 13 there are several stock piles of soil. The origin of this material is unknown and could not be determined.

According to Mr. Hight the property was logged during the demolition activities in 2009, Logs and other logging debris was left on the property. The debris is located at the northwestern corner of Parcel 13A.

7.5 STAINED SURFACES AND DISTRESSED VEGETATION

No distressed vegetation or stained surfaces were observed on Site, however based on snow cover, ECS could not observe the ground surface throughout the entire Site.

8.0 SUBSURFACE INVESTIGATION

Based on the finding of the ASTM Phase I conducted for the site, ECS recommended further inquiry into the following areas on the two parcels as summarized below.

Former 10,000-gallon fuel oil UST area: The former 10,000 gallon fuel oil UST was removed from Parcel 13 on July 18, 2006. The fuel oil UST was reportedly also utilized to store waste oil as 2,400 gallons of waste oil was pumped out of the UST on May 5, 2006. At the time of UST removal three grab soil samples were collected and submitted for EPH analysis and one composite sample was submitted for RCRA 8 and PCB analysis. No reportable concentrations of target analytes were detected. As waste oil was reported to have been stored in this UST, ECS recommended this area be assessed for the presence of VOCs as the source of the waste oil is unknown.

Pesticide rinse water area: Pesticides have been used on the property in association with nursery operations. In addition, according to the ASTM Phase I the disposal of pesticide container rinse waters was conducted on the ground at the property located immediately adjacent to and inferred upgradient of Parcel 13. ECS recommended investigating the upgradient portions of the property, the leach field area and the collection of soil samples in the vicinity of the former greenhouses for pesticides, lead and arsenic.

Garage and Loading Dock Area: Parcel 13 contains a garage historically used for equipment maintenance and storage. According to various reports on the property debris including an old abandoned generator have been reported to be historically located in various areas of Parcel 13.

Former 2,000-gallon fuel oil UST and septic tank area: Located to the north of the former residential dwelling on Parcel 13A, there was a 2,000 gallon fuel oil UST and a concrete septic tank. Though the UST removal records were available at the fire department, there was no indication of an investigation to evaluate environmental conditions in the vicinity of the former UST and septic tank. ECS recommended investigating the area in the vicinity of these structures and collection of soil samples for VPH and EPH.

A Zone II boundary is located within 500' and almost immediately adjacent to the northeast corner of the Parcels, and the Parcels are located within a Town of Westborough Zone III aquifer protection district. Therefore the site subject to MCP RCS-1 and RCGW-1 soil and groundwater reportable concentrations.

Based on an evaluation of the identified RECs ECS recommended the following ASTM Phase II activities be completed:

- Advancing one boring/well in the vicinity of the former waste oil UST and former storage area and collecting soil and groundwater samples which will be assessed for volatile petroleum hydrocarbons (VPH) and EPH, RCRA 8 metals, polychlorinated biphenyls (PCBs), pesticides, arsenic, lead, and VOCs in soil;
- Advancing up two borings in the vicinity of the reported pesticide rinse water area and septic tank, and collecting soil samples which will be assessed for pesticides, arsenic, and lead in soil;
- Advancing one boring/well in the garage and loading dock area to establish a baseline of the soil and groundwater conditions proximal to these two existing potential sources. Groundwater and soil samples from the borings/wells will be evaluated for petroleum related compounds, pesticides, arsenic, and lead; and

- Advancing one boring/well in the vicinity former 2,000-gallon fuel oil UST and septic tank area associated with the residential dwelling located on Parcel 13A to establish a baseline of the soil and groundwater conditions proximal to these two existing potential sources.
- Advancing eighteen shallow boring throughout the site in order to delineate elevated arsenic concentrations.

As part of this Phase II ESA, ECS performed a limited subsurface investigation for the purpose of evaluating the soil and groundwater at the Site. Sections 8.0 and 9.0 of this report are associated with the February and March 2010 subsurface investigation.

Select soil and groundwater samples were submitted to Spectrum Analytical of Agawam, Massachusetts for laboratory analysis. The soil boring and monitoring well locations are indicated on Figure 2 (Site Plan). The results of the laboratory analyses are discussed in the following report section.

8.1 SOIL BORING ADVANCEMENT & INSTALLATION OF GROUNDWATER MONITORING WELLS

On February 2, 2010 and February 16, 2010, ECS personnel supervised the advancement of four soil borings at the Site in the locations depicted on Figure 2 (Site Plan). Soil borings B-1, B-2, B-3, and B-4 were advanced by Drilex Environmental of West Boylston, Massachusetts, using a truck-mounted hollow stem auger drill rig. Soil boring B-1 and B-4 were constructed as groundwater monitoring wells.

- Boring B-1/MW-2 was advanced in the vicinity of the former 10,000-gallon fuel oil UST and former storage area to characterized for the presence of VPH, EPH, RCRA 8 metals, PCBs, pesticides, lead, arsenic, and VOCs in soil and groundwater;
- Boring B-2 was advanced in the vicinity pesticide container rinse water dumping, to characterize for the presence of pesticides, lead, and arsenic in soil;
- Boring B-3 was advanced in the vicinity of the former 2,000-gallon fuel oil UST and septic tank area associated with the residential dwelling located on Parcel 13A, to characterize for the presence of VPH and EPH in soil;
- Boring B-4/MW-1 was advanced in the vicinity of the garage and loading dock area, to characterize for the presence of VPH, EPH, pesticides, lead, arsenic, and volatile organic compounds in soil and groundwater; and
- ECS collected surficial soil samples (HA-1, HA-2, HA-3, and HA-4) using a hand auger from various locations across Parcel 13, to characterize for the presence of pesticides, lead, and arsenic in soil.

The monitoring wells (MW-1 and MW-2) were constructed of schedule 40, 0.01 inch slot PVC well screen attached with flush-threaded joints to solid PVC riser pipe. A bentonite seal was placed above the screened portion of the wells. The boring annulus surrounding the screened interval was packed with clean No. 2 grade Jersey sand or equivalent to a depth of one foot above the screened interval in the well, which was capped by a bentonite plug. Grout was used to fill the boring annulus to the surface where a flush curb box protective casing was cemented in place. Groundwater was encountered in boring B-1/MW-2 at a depth of 19.0 feet below grade (fbg) and B-4 at a depth of 13.5 feet below grade.

Based on the detection of pesticides and arsenic in shallow soils (discussed in Section 9.0 below), ECS returned to the Site on March 3, 2010 at the request of the Warren Equities to conduct additional subsurface investigation activities consisting of the advancement of 18 soil borings to depths ranging from 4-8 fbg and the collection an analysis of soil samples.

On March 3, 2010, ECS personnel supervised the advancement of eighteen shallow soil borings at the site in the locations depicted on Figure 2 (Site Plan). Soil borings GP-1 through GP-18 were advanced by Bronson Drilling of Lexington, Massachusetts, using a track-mounted power probe direct push drill rig.

The eighteen shallow soil borings were advanced to a depth of four fbg, with the exception of GP-3 and GP-17 which were advanced to a depth of 8 fbg.

Further details about the individual borings and wells can be found in the Boring Logs, which are included in **Appendix H**.

8.2 SOIL SAMPLING

On February 2 and February 16, 2010, soil borings were advanced with the use of a hollow stem auger drill rig and soil samples were collected by a decontaminated, stainless steel, split-spoon sampler. Soil samples were collected at two or five foot intervals based on field screening results and the depth of the water table interface. The soil samples from HA-1 through HA-4 were collected by a decontaminated, stainless steel, hand auger. Soil sampling equipment was scrubbed in an Alconox solution and rinsed in deionized water between uses.

Eighteen soil borings were advanced on March 3, 2010 with the use of direct push technology. Soil samples were collected continuously from each soil boring using a 4-foot long 1.5-inch inside diameter macro-core sampler beginning at surface grade to the boring termination depth.

8.3 CHARACTERIZATION OF SUBSURFACE SOILS

The soils encountered at the site consist of fine to medium sand and gravel to a depth of 7.0 fbg to 11.5 fbg in Borings B-1 and B-4, respectively. Boring B-1 is located in the vicinity of the former 10,000-gallon UST, located in the southwestern corner of Parcel 13. Boring B-4 is located in the vicinity of the former of the garage and loading dock area, located at the northeastern portion of Parcel 13A. During the advancement of Boring B-1, below the fine to medium sand and gravel, the material encountered consisted nested boulders with sand and gravel. Apparent bedrock was not encountered during the advancement of boring B-1.

Bedrock was encountered at the boring B-4 location at a depth of 7.0 fbg. Drilex Environmental advanced the boring sequent to auger refusal with an air hammer to a depth of 25 fbg.

8.4 FIELD SCREENING & LABORATORY ANALYSIS OF SOIL AND GROUNDWATER SAMPLES

Soil samples were visually characterized, logged, and examined for abnormalities indicative of contamination as would be evidenced by an unusual odor, texture, or color. Representative portions of each soil sample were collected in 8-ounce glass jars with an aluminum-foil seal placed beneath the screw cap, and field screened for the presence of TOVs with a portable PID calibrated to a benzene response factor.

No TOVs were detected in the soil samples collected from borings B-2, B-3, B-4, GP-1, GP-2, GP-3, GP-4, GP-5, GP-6, GP-7, GP-8, GP-9, GP-10, GP-11, GP-12, GP-13, GP-14, GP-15, GP-16, GP-17, or GP-18. A PID reading of 4.8 ppm was detected in the soil sample collected from a depth of 10 to 12 fbg in boring B-1/MW-2. All other PID readings in boring B-1/MW-2 were below detection limits. Headspace screening results for each soil sample are presented in the Boring Logs, included as **Appendix H**.

9.0 LABORATORY ANALYTICAL RESULTS

This section summarizes the analytical results from the February 2, 2010 and March 3, 2010 subsurface investigations and the groundwater analytical results from the February 22, 2010 groundwater sampling event. Soil and groundwater samples from the Site were submitted to Spectrum Analytical of Agawam, Massachusetts, for laboratory analysis. The analyses performed on each sample were chosen based on the potential RECs observed within close proximity to the sampling locations. The analytical reports are included in their entirety as **Appendix I**.

9.1 SOIL SAMPLING & ANALYTICAL RESULTS

Soil samples were selected for analyses based on potential contaminant sources, PID screening and location within the saturated zone. Following the February 2, 2010 and March 3, 2003 subsurface investigations, select soil samples were submitted for laboratory analysis. The samples from B-1 (10'-12'), B-3 (5'-7'), and B-4 (5'-7') were submitted for analysis of VPH and EPH. The samples from B-1 (10'-12'), and B-4 (5'-7') were submitted for analysis of VOCs by EPA method 8260. The soil sample from B-1 (10'-12') was submitted for analysis of PCB's and RCRA 8 Metals. The soil samples from B-1 (10'-12'), B-2 (0.5'-2.5'), B-2 (1'-3'), B-4 (0.5'-2.5'), B-4 (1'-3'), HA-1 (0.5'-1'), HA-2 (0.5'-1'), HA-3 (0.5'-1'), and HA-4 (0.5'-1') were submitted for arsenic, pesticides, and lead. The soil samples collected from GP-2 (0'-1'), GP-3 (2'-4'), GP-5 (0'-1'), GP-6 (0'-1'), GP-7 (2'-4'), and GP-12 (0'-1') were submitted for pesticides and arsenic. The soil samples collected from GP-17 (0'-1'), GP-17 (2'-4'), and GP-17 (4'-6') were submitted for arsenic and chromium analysis. The remaining shallow soil samples collected from the 0 to 1 ft and/or 2 to 4 ft intervals at locations GP-1 through GP-16 were submitted for arsenic analysis only.

No VPH concentrations were detected above their applicable MCP RCS-1 Reportable Concentrations.

No VOCs, PCBs, or EPH were detected at concentrations above laboratory detection limits.

Arsenic and lead concentrations were detected in the samples collected from the boring B-1, B-2, B-3, B-4, HA-1, HA-2, HA-3, and HA-4 at concentration above laboratory detection limits. Arsenic was detected at concentrations exceeding the applicable RCS-1 reportable concentrations in the soil samples from B-4 (0.5'-1'), HA-2 (0.5'-1'), HA-3 (0.5'-1'), GP-2 (0'-1'), GP-4 (0'-1'), GP-6 (0'-1'), GP-6 (2'-4'), GP-7 (2'-4'), GP-9 (0'-1'), GP-14 (0'-1'), GP-17 (0'-1'), GP-18 (0'-1'), and GP-18 (2'-4'). Chromium was detected above the RCS-1 reportable concentration in the soil sample collected from the boring B-1 at the 10'-12' interval. It should be noted that arsenic concentrations were detected in soil samples HA-2, GP-6, and GP-18 at concentrations of 40.1 mg/Kg, 105 mg/Kg, and 51.5 mg/Kg, respectively. These samples were each collected from a depth of less than one foot below grade. These concentrations could pose an Imminent Hazard in accordance with the provisions of the MCP 310 CMR 40.0321(2) (b), and constitute a two hour Massachusetts Department of Environmental Protection (MassDEP) release notification obligation.

Organochlorine pesticide constituents were detected above the laboratory detection limits in the HA-2, HA-3, HA-4, GP-2, and GP-6 shallow soil samples, which were collected at depths of less than one-foot below grade (fbg). The compound Endosulfan sulfate exceeded the RCS-1 reportable concentration of 500 ug/l, in the HA-2 (0.5'-1') sample with a concentration of 566 ug/l. No other compounds were found to exceed the RCS-1 standards.

Soil analytical results are summarized in Tables 1 through 6 and laboratory certificates are included as **Appendix I.**

9.2 GROUNDWATER SAMPLING AND ANALYTICAL

On February 22, 2010, ECS collected groundwater samples from the newly installed wells, MW-1 and MW-2. Groundwater samples were collected from select monitoring wells via low flow sampling techniques. Prior to sampling, the depth to groundwater was measured in each monitoring well using an electronic water level indicator. Depths to water ranged from 13.31 fbg to 17.13 fbg in monitoring wells MW-1 and MW-2, respectively. Light non-aqueous phase liquid (LNAPL) was not detected in either monitoring well. During groundwater sampling events, groundwater geochemical parameters (specific conductivity, dissolved oxygen (DO), pH, temperature and oxidation reduction potential (ORP)) were measured using a YSI Model 600 XL probe from select monitoring wells.

Groundwater samples collected from MW-1 and MW-2 were submitted for VPH, EPH, pesticides, dissolved arsenic and dissolved lead. No concentrations of these analytes were detected at concentrations above laboratory detection limits in the groundwater samples collected from these monitoring wells.

The groundwater sample collected from MW-2 was also analyzed for VOCs and dissolved chromium. Dissolved chromium was not detected above the laboratory detection limits. The compound sec-butylbenzene was detected at a concentration of 1.6 1 micrograms per liter (ug/l), there is no RCGW-1 reportable concentration for this compound.

The VPH, EPH, VOCs, pesticides, dissolved arsenic, lead and chromium results are summarized in Tables 7 through 11. The groundwater laboratory certificates are included as **Appendix I.**

10.0 FINDINGS AND ENVIRONMENTAL PROFESSIONAL OPINION

10.1 ENVIRONMENTAL SITE CONDITION FINDINGS

The following known or suspect environmental conditions were identified during this Phase I ESA:

- The historic presence of USTs at the site; and,
- The historic use and reported disposal of pesticides at the site.

10.2 DATA GAPS AND OPINION

Data gaps as defined by ASTM E 1527-05 are considered to arise from a lack of or inability to obtain information required by this ASTM Standard Practice. Examples of ASTM related data gaps include the inability to conduct site reconnaissance due to access restrictions (i.e. locked doors, snow cover, inability to gain access to site), inability to conduct interviews with key site personnel or officials, or gaps in site history (i.e. missing Historical Street Directory volumes, Sanborn Maps, aerial photographs, etc.). An Opinion concerning the significance of data gaps and whether the absence of related information adversely affects the Environmental Professional's (EP) ability to determine if recognized environmental conditions exist at the site is provided below.

The following data gaps were identified and are discussed:

- The unknown location of the septic tank for Parcel 13. The location of the septic manhole cover was noted on site plan produced and provided to ECS, by Waterman Design Associates, Inc., however the location of this manhole cover could not be located in the field. ECS advanced one boring (B-2) to a depth of 9.5 fbg, in order to address the subsurface conditions in the vicinity of the septic tank.
- Absence of sufficient historical information related to the presence of historical USTs. Building Department records indicate that the two Steel USTs were properly disposed of in October 2001. Based on municipal file reviews, previous environmental reports, and interviews with the current property owner, there is no indication of the former locations of these USTs. Based the disposal receipts, ECS determined that the USTs have been removed from the site and properly disposed of at Tombarello & Sons disposal yard. ECS conducted a subsurface investigation in March 2010, based on the findings of this investigation; no indications of a release of petroleum based products were identified in the soil or groundwater samples.
- Sanborn Maps do not provide coverage of the site and surrounding area. This is not considered to be a significant data gap.

10.3 RATIONALE FOR IDENTIFICATION OF RECOGNIZED ENVIRONMENTAL CONDITIONS

In accordance with the All Appropriate Inquiry Final Rule (40 CFR Part 312) and further detailed in Section 12.6 of ASTM 1527-05, the opinion summarized below concerning the presence of recognized environmental conditions identified during the site assessment is provided by the EP supervising this assessment. The opinion has considered the usefulness and completeness of information obtained during

the course of the assessment, whether or not data gaps identified in Section 10.2 adversely affect the ability of the EP to provide an opinion.

It is the opinion of the EP for this assessment that recognized environmental conditions do exist at the site. The rationale used in considering whether a given site condition is or is not currently a recognized environmental condition is discussed below.

Historical/Former USTs: USTs have been historically located on the property. Assessment activities conducted in the vicinity of the former 10,000 gallon fuel oil/waste oil indicated the presence of chromium in soil at a concentration exceeding the RCS-1 reportable concentration. No other VPH, EPH, VOCs, metals, or PCBs were detected in soil or groundwater exceeding applicable RCs. Assessment activities conducted in the vicinity of the former 2,000 gallon fuel oil UST indicated no VPH or EPH constituents were detected above applicable RCs in soil or groundwater. However, Town of Westborough Fire Department and Building Department records indicate that other USTs may have been historically present at the site. Additional details regarding the removal, capacity, location, or contents of these USTs were not located.

Historical Pesticide Usage: Pesticides have been used on the property in association with nursery operations. According to previous reports the disposal of pesticide container rinse waters was conducted on the ground at the property located immediately adjacent to and inferred upgradient of Parcel 13. Subsurface investigations conducted in February and March 2010 have identified the presence of pesticides at concentrations exceeding applicable RCs in one soil sample, and the presence of arsenic at concentrations exceeding the applicable RCs in 13 soil samples. Additionally, the presence of arsenic in soil at depths of less than 12 inches below grade and at concentrations exceeding 40 mg/Kg is indicative that an Imminent Hazard may be present in accordance with the provisions of the MCP and constitutes a two hour MassDEP notification obligation and the need to conduct Immediate Response Actions. Impacted areas include the vicinity of the former greenhouse and the vicinity of the existing garage.

11.0 CONCULSIONS

ECS has completed a combined Phase I and Phase II Environmental Site Assessment of former Green Thumb Nursery, located at 183 and 185 Turnpike Road in Westborough, Massachusetts. The assessment was performed in accordance with ASTM Standard Practice E 1527-05. There were no exceptions or deletions from this practice.

ECS completed Phase I ESA investigations for the site in February 2010, and documented the following information about the Site:

- Former 10,000-gallon fuel oil UST area: The former 10,000 gallon fuel oil UST was removed from Parcel 13 on July 18, 2006. The fuel oil UST was reportedly also utilized to store waste oil as 2,400 gallons of waste oil was pumped out of the UST on May 5, 2006. At the time of UST removal three grab soil samples were collected and submitted for EPH analysis and one composite sample was submitted for RCRA 8 and PCB analysis. No reportable concentrations of target analytes were detected. As waste oil was reported to have been stored in this UST, ECS recommended this area be assessed for the presence of VOCs as the source of the waste oil is unknown.
- Pesticide rinse water area: Pesticides have been used on the property in association with nursery operations. In addition, according to the ASTM Phase I the disposal of pesticide container rinse waters was conducted on the ground at the property located immediately adjacent to and inferred upgradient of Parcel 13. ECS recommended investigating the upgradient portions of the property, the leach field area and the collection of soil samples in the vicinity of the former greenhouses for pesticides, lead and arsenic.
- Garage and Loading Dock Area: Parcel 13 contains a garage historically used for equipment maintenance and storage. Various debris including an old abandoned generator has been reported to be historically located in various areas of Parcel 13.
- Former 2,000-gallon fuel oil UST and septic tank area: Located to the north of the former residential dwelling on Parcel 13A, there was a 2,000 gallon fuel oil UST and a concrete septic tank. Though the UST removal records were available at the fire department, there was no indication of an investigation to evaluate environmental conditions in the vicinity of the former UST and septic tank. ECS recommended investigating the area in the vicinity of these structures and collection of soil samples for VPH and EPH.

Based on the above findings, ECS recommended subsurface investigation activities, which were completed in February and March 2010. The subsurface investigations identified the following:

- The presence of chromium in one soil sample collected from the former fuel oil/waste oil UST area at concentrations exceeding the applicable RCS-1 reportable concentration;
- The presence of pesticides in soil samples collected from five shallow soil borings, one of which exhibited concentrations exceeding applicable RCs;
- The presence of arsenic in 13 soil samples at concentrations exceeding the applicable RC;
- The presence of arsenic in three soil samples collected from the top 12 inches of soil at concentrations greater than 40 mg/Kg, indicating the potential presence of an Imminent Hazard;

- No VPH, EPH, VOC, or PCBs were detected in soil samples at concentrations exceeding applicable RCs; and
- No VPH, EPH, VOC, metals, or pesticides were detected in groundwater at concentrations exceeding applicable RCs.

Based on the findings of this ESA investigation, RECs were identified at the site, as indicated above. ECS recommends MassDEP notification of the conditions outlined above in accordance with the requirements of the MCP.

The chromium and pesticides concentrations detected in soil above the RCs constitute a 120 day Massachusetts Department of Environmental Protection (MassDEP) release notification obligation.

The arsenic concentrations could pose an Imminent Hazard in accordance with the provisions of the MCP 310 CMR 40.0321(2)(b), and constitute a two hour Massachusetts Department of Environmental Protection (MassDEP) release notification obligation.

Additional assessment and/or remedial activities will be warranted under the direction of a Licensed Site Professional (LSP) in order to address the release(s) of chromium, arsenic, and pesticides.

12.0 REFERENCES

12.1 RESOURCES CONSULTED

1. USGS Marlborough Quadrangle, 7.5-minute series
2. USGS Marlborough Quadrangle, 15-minute series
3. 1995Aerial Photographs
(<http://terraserver-usa.com/default.aspx>)
4. National Conservation Center Service Web Soil Survey
(<http://websoilsurvey.nrcs.usda.gov/app/>)
5. *FirstSearch™ Technology Corporation Environmental Database Report*; dated January 14, 2010.
6. Federal Emergency Management Agency Flood Plain Map 250277-0005-C dated Feruary 19, 1982
7. Historical USGS 1898, 1917, 1943, and 1953 Marlborough 15 minute-series Topographic Quadrangles (<http://docs.unh.edu/matopos/matopos.htm>)

12.2 AGENCIES CONTACTED

Westborough Fire Department
Westborough Assessor's Office
Westborough Building Department
Westborough Board of Health

13.0 ENVIRONMENTAL PROFESSIONAL'S DECLARATION

This assessment was reviewed by Craig Ellis, LSP of ECS. Mr. Ellis is a Licensed Site Professional with more than 18 years of Phase I environmental site assessment experience.

I declare that, to the best of my knowledge and belief, I meet the definition of Environmental Professional as defined in Part 312.10 of 40 CFR 312. I have the specific qualifications based on education, training and experience to assess a property of the nature, history and setting of the subject property. I have developed and performed the all appropriate inquiries in conformance the standards and practices set forth in 40 CFR 312



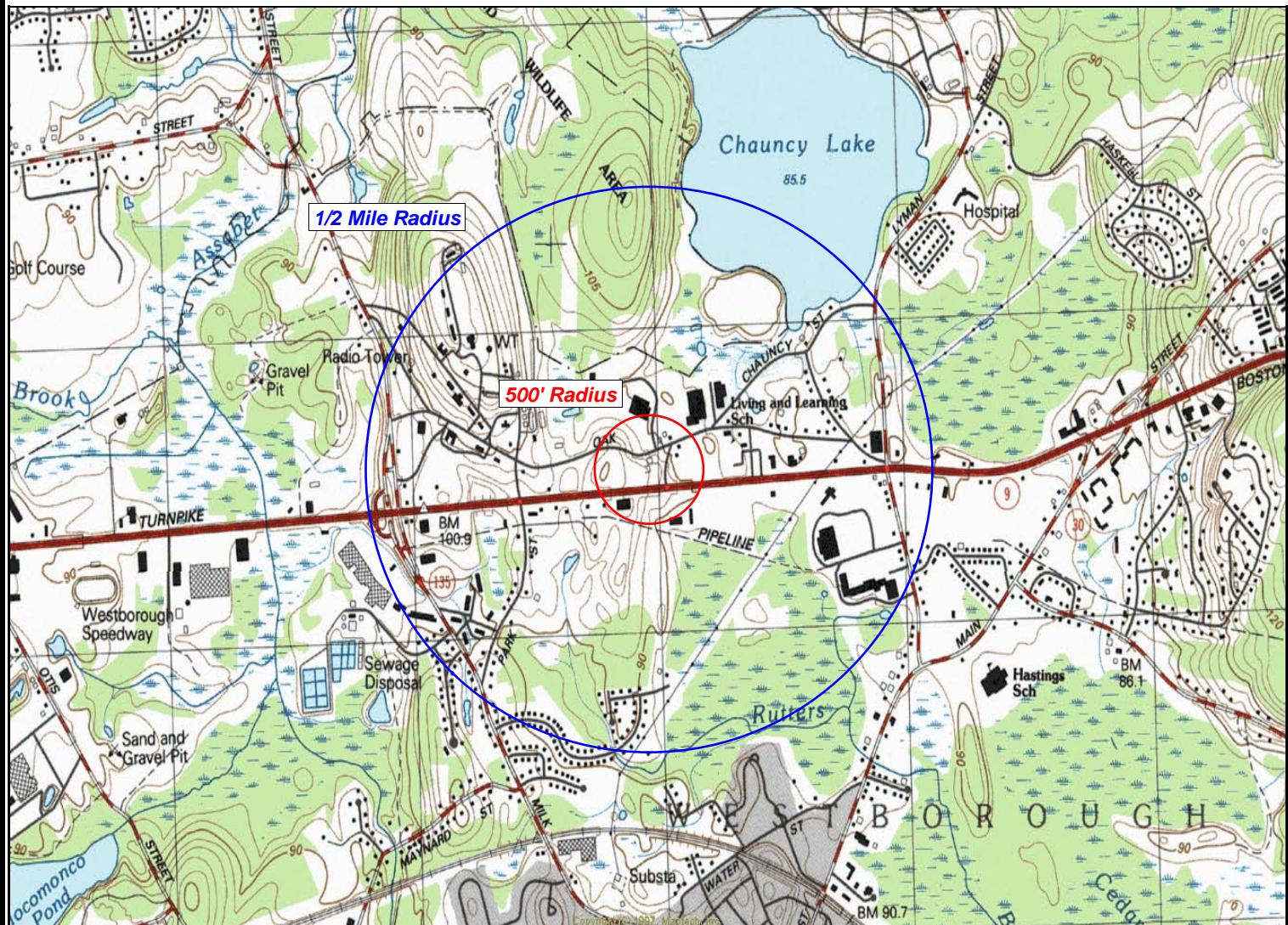
Craig Ellis, LSP
Senior Project Manager

Resumes of the EP and/or inspectors conducting the site reconnaissance portion of the assessment are included in **Appendix J**.

FIGURES

Former Green Thumb Nursery
183 Turnpike Road
Westborough, MA
01581

Job Number: 05-213212.00



1 1/2 0 1 Mile

1 inch = 1500 feet

Contour Interval: 3 Meters

North



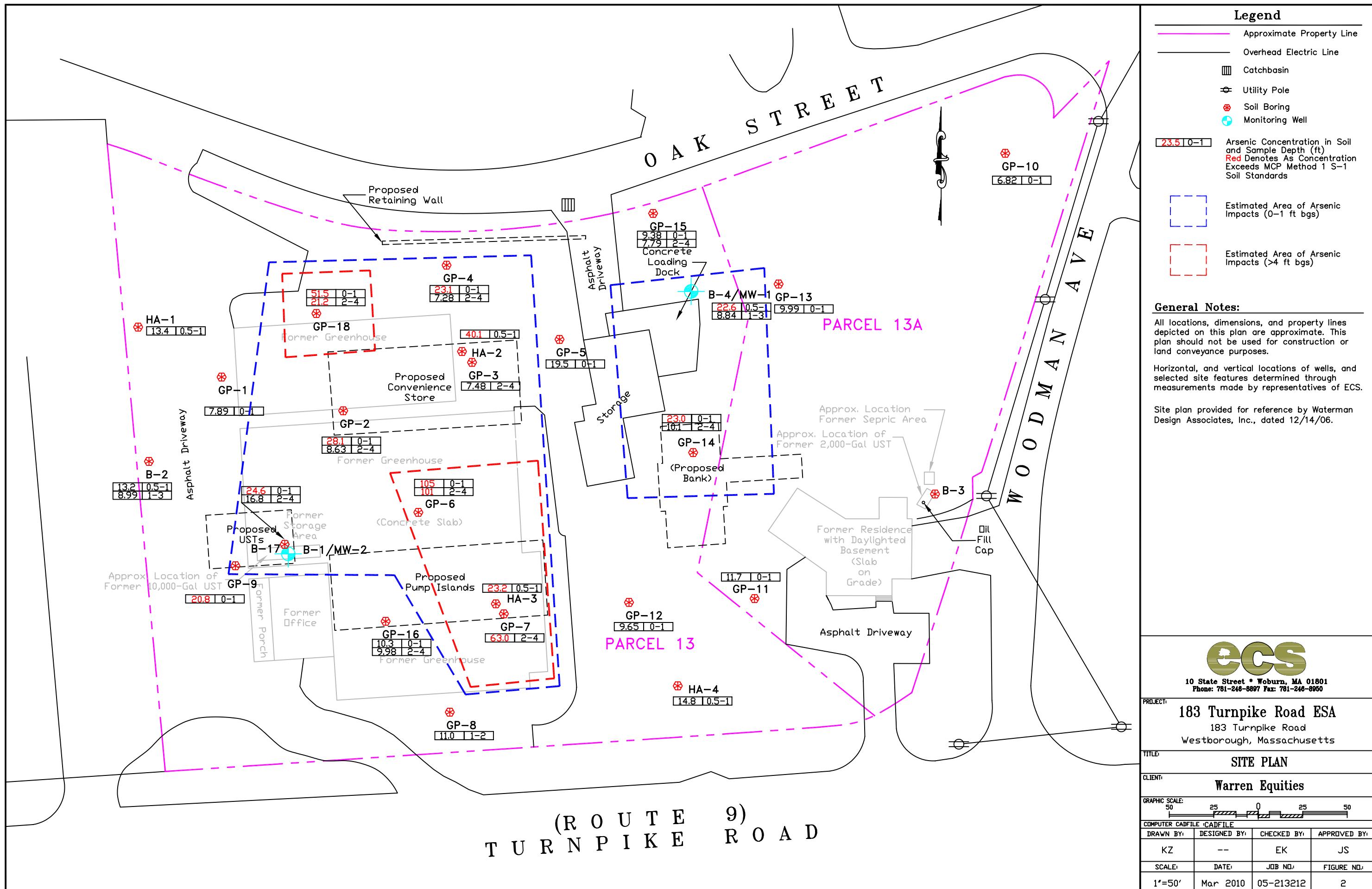
Base Map: U.S. Geological Survey; Quadrangle Location: Marlborough, MA

UTM Coordinates: 19 0283957 East / 46 84547 North

Map Edited: 1983

Map Revised: N/A

Generated By: JNS



TABLES

<p>Project # 05-213212 Warren Equities 183 Turnpike Road Westborough, MA</p>	<p>Table 1 Concentrations of Volatile Petroleum Hydrocarbons Detected in Soil Samples (MADEP Method VPH-04-1.1)</p>			
Sample Location	B-1	B-3	B-4	Reportable Concentrations
Sampling Date	2/2/2010	2/2/2010	2/2/2010	
Depth below grade (feet)	10-12'	5-7'	5-7'	RCS-1
VPH Fractions (mg/kg)	Results/Method Detection Limits			
C ₅ -C ₈ Aliphatics	ND/0.758	2.25	ND/0.894	100
C ₉ -C ₁₂ Aliphatics	ND/0.253	ND/0.313	ND/0.298	1,000
C ₉ -C ₁₀ Aromatics	0.583	ND/0.313	ND/0.298	100
Targeted VPH Analytes (ug/kg)				
Methyl-tert-butyl ether	ND/50.5	ND/62.6	ND/59.6	100
Benzene	ND/50.5	ND/62.6	ND/59.6	2,000
Toluene	ND/50.5	ND/62.6	ND/59.6	30,000
Ethylbenzene	ND/50.5	ND/62.6	ND/59.6	40,000
m,p- Xylenes	ND/101	ND/62.6	ND/59.6	300,000
o-Xylene	ND/50.5	ND/125	ND/119	
Naphthalene	ND/50.5	ND/62.6	ND/59.6	4,000
NOTES:				
NA = target analyte Not Analyzed.				
ND/5.0 = target analyte Not Detected above the noted detection limit.				
NS = No Standard.				
Bold indicates target analyte exceeds the MCP RCS-1 Reportable Concentration.				
Reportable Concentrations are excerpted from 310 CMR 40.1600 Table 1.				

<p>Project # 05-213212 Warren Equities 183 Turnpike Road Westborough, MA</p>	<p>Table 2 Concentrations of Extractable Petroleum Hydrocarbons (EPH) Detected in Soil Samples (MADEP EPH-04-1.1)</p>			
Sample Location	B-1	B-3	B-4	Reportable Concentrations
Date	2/2/2010	2/2/10	2/2/10	
Depth	10-12'	5-7'	5-7'	RCS-1
EPH Fractions (mg/kg)	Results/Method Detection Limits			
C ₉ -C ₁₈ Aliphatics	ND/10.5	ND/11.0	ND/10.3	1,000
C ₁₉ -C ₃₆ Aliphatics	ND/10.5	ND/11.0	ND/10.3	3,000
C ₁₁ -C ₂₂ Aromatics	ND/10.5	ND/11.0	ND/10.3	1,000
EPH Target Analytes (ug/kg)				
Acenaphthene	ND/349	ND/366	ND/343	4,000
Acenaphthylene	ND/349	ND/366	ND/343	1,000
Anthracene	ND/349	ND/366	ND/343	1,000,000
Benzo (a) anthracene	ND/349	ND/366	ND/343	7,000
Benzo (b) fluoranthene	ND/349	ND/366	ND/343	7,000
Benzo (k) fluoranthene	ND/349	ND/366	ND/343	70,000
Benzo (a) pyrene	ND/349	ND/366	ND/343	2,000
Benzo (g,h,i) perylene	ND/349	ND/366	ND/343	1,000,000
Chrysene	ND/349	ND/366	ND/343	70,000
Dibenzo (a,h) anthracene	ND/349	ND/366	ND/343	700
Fluoranthene	ND/349	ND/366	ND/343	1,000,000
Fluorene	ND/349	ND/366	ND/343	1,000,000
Indeno (1,2,3-cd) pyrene	ND/349	ND/366	ND/343	7,000
2-Methylnaphthalene	ND/349	ND/366	ND/343	700
Naphthalene	ND/349	ND/366	ND/343	4,000
Phenanthrene	ND/349	ND/366	ND/343	10,000
Pyrene	ND/349	ND/366	ND/343	1,000,000
NOTES:				
NA = target analyte Not Analyzed.				
ND/5.0 = target analyte Not Detected above the noted detection limit.				
NS = No Standard.				
Bold indicates target analyte exceeds the MCP RCS-1 Reportable Concentration				
Reportable Concentrations are excerpted from 310 CMR 40.1600 Table 1.				

Project # 05-213212 Warren Equities 183 Turnpike Road Westborough, MA		Table 4 Concentrations of Volatile Organic Compounds (VOCs) Detected in Soil Samples (USEPA Method 8260)		
Sample Location	B-1	B-4	Reportable Concentrations	
Sampling Date	2/2/2010	2/2/2010	10-12'	RCS-1
Sample Depth				
Volatile Organic Compounds (ug/kg)	results/Method Detection Limit			
Acetone	ND/25.8	ND/31.7	6,000	
Acrylonitrile	ND/2.6	ND/3.2	100,000	
Benzene	ND/2.6	ND/3.2	2,000	
Bromobenzene	ND/2.6	ND/3.2	100,000	
Bromochloromethane	ND/2.6	ND/3.2	NS	
Bromodichloromethane	ND/2.6	ND/3.2	100	
Bromoform	ND/2.6	ND/3.2	100	
Bromomethane	ND/5.2	ND/6.3	500	
2-Butanone (MEK)	ND/25.8	ND/31.7	4,000	
n-Butylbenzene	ND/2.6	ND/3.2	NS	
sec-Butylbenzene	ND/2.6	ND/3.2	NS	
tert-Butylbenzene	ND/2.6	ND/3.2	100,000	
Carbon disulfide	ND/12.9	ND/15.8	100,000	
Carbon tetrachloride	ND/2.6	ND/3.2	5,000	
Chlorobenzene	ND/2.6	ND/3.2	1,000	
Chloroethane	ND/5.2	ND/6.3	100,000	
Chloroform	ND/2.6	ND/3.2	300	
Chloromethane	ND/5.2	ND/6.3	100,000	
2-Chlorotoluene	ND/2.6	ND/3.2	100,000	
4-Chlorotoluene	ND/2.6	ND/3.2	NS	
1,2-Dibromo-3-chloropropane (DBCP)	ND/5.2	ND/6.3	10,000	
Dibromo-chloromethane	ND/2.6	ND/3.2	5	
1,2-Dibromoethane (EDB)	ND/2.6	ND/3.2	100	
Dibromomethane	ND/2.6	ND/3.2	500,000	
1,2-Dichlorobenzene	ND/2.6	ND/3.2	9,000	
1,3-Dichlorobenzene	ND/2.6	ND/3.2	1,000	
1,4-Dichlorobenzene	ND/2.6	ND/3.2	700	
Dichlorodifluoromethane	ND/5.2	ND/6.3	1,000,000	
1,1-Dichloroethane	ND/2.6	ND/3.2	400	
1,2-Dichloroethane	ND/2.6	ND/3.2	100	
1,1-Dichloroethene	ND/2.6	ND/3.2	3,000	
cis-1,2-dichloroethene	ND/2.6	ND/3.2	300	
trans-1,2-dichloroethene	ND/2.6	ND/3.2	1,000	
1,2-Dichloropropane	ND/2.6	ND/3.2	100	
1,3-Dichloropropane	ND/2.6	ND/3.2	500,000	
2,2-Dichloropropane	ND/2.6	ND/3.2	NS	
1,1-Dichloropropene	ND/2.6	ND/3.2	500,000	
cis-1,3-Dichloropropene	ND/2.6	ND/3.2	10	
trans-1,3-Dichloropropene	ND/2.6	ND/3.2	10	
Ethylbenzene	ND/2.6	ND/3.2	40,000	
Hexachlorobutadiene	ND/2.6	ND/3.2	6,000	
2-Hexanone (MBK)	ND/25.8	ND/31.7	100,000	
Isopropylbenzene	ND/2.6	ND/3.2	1,000,000	
4-Isopropyltoluene	ND/2.6	ND/3.2	NS	
Methyl-tert-butyl-ether (MTBE)	ND/2.6	ND/3.2	100	
4-Methyl-2-pentanone (MIBK)	ND/25.8	ND/31.7	400	
Methylene chloride	ND/25.8	ND/31.7	100	
Naphthalene	ND/5.2	ND/6.3	4,000	
n-Propylbenzene	ND/2.6	ND/3.2	NS	
Styrene	ND/2.6	ND/3.2	3,000	
1,1,1,2-Tetrachloroethane	ND/2.6	ND/3.2	100	
1,1,2,2-Tetrachloroethane	ND/2.6	ND/3.2	5	
Tetrachloroethene (PCE)	ND/2.6	ND/3.2	1,000	
Toluene	ND/2.6	ND/3.2	30,000	
1,2,3-Trichlorobenzene	ND/2.6	ND/3.2	NS	
1,2,4-Trichlorobenzene	ND/2.6	ND/3.2	2,000	
1,1,1-Trichloroethane	ND/2.6	ND/3.2	30,000	
1,1,2-Trichloroethane	ND/2.6	ND/3.2	100	
Trichloroethene (TCE)	ND/2.6	ND/3.2	300	
Trichlorofluoromethane	ND/2.6	ND/3.2	1,000,000	
1,2,2-Trichloropropane	ND/2.6	ND/3.2	100,000	
1,2,4-Trimethylbenzene	ND/2.6	ND/3.2	NS	
1,3,5-Trimethylbenzene	ND/2.6	ND/3.2	NS	
Vinyl chloride	ND/2.6	ND/3.2	3,000	
m,p-Xylenes	ND/5.2	ND/6.3	500,000	
o-Xylene	ND/2.6	ND/3.2	500,000	
1,1,2-Trichlorotrifluoroethane (Freon 113)	ND/2.6	ND/3.2	NS	
Tetrahydrofuran	ND/25.8	ND/31.7	500,000	
Ethyl ether	ND/2.6	ND/3.2	100,000	
Tert-amyl methyl ether	ND/2.6	ND/3.2	NS	
Ethyl tert-butyl ether	ND/2.6	ND/3.2	NS	
Di-isopropyl ether	ND/2.6	ND/3.2	100,000	
Tert-Butanol / butyl alcohol	ND/25.8	ND/31.7	100,000	
1,4-Dioxane	ND/51.6	ND/63.4	200	
trans-1,2-Dichloro-2-butene	ND/12.9	ND/15.8	10,000	

NOTES:

NA = target analyte Not Analyzed.

ND/5.0 = target analyte Not Detected above the noted detection limit.

NS = No Standard.

Bold indicates target analyte exceeds the MCP RCS-1 Reportable Concentration

Reportable Concentrations are excerpted from 310 CMR 40.1600 Table 1.

Project # 05-213212 Warren Equities 183 Turnpike Road Westborough, MA	Table 5 Concentrations of Organochlorine Pesticides by SW846 8081A Detected in Soil Samples															
Sample Location	B-1	B-2		B-4		HA-1	HA-2	HA-3	HA-4	GP-2	GP-3	GP-5	GP-6	GP-7	GP-12	Reportable Concentrations
Sampling Date	2/2/2010	2/2/2010	2/2/2010	2/2/2010	2/2/2010	2/2/2010	2/2/2010	2/2/2010	2/2/2010	3/3/2010	3/3/2010	3/3/2010	3/3/2010	3/3/2010	3/3/2010	RCS-1
Sample Depth (ft)	10-12'	0.5-1'	1-3'	0.5-1'	1-3'	0.5-1'	0.5-1'	0.5-1'	0.5-1'	0-1'	2-4'	0-1'	0-1'	2-4'	0-1'	
Organochlorine Pesticides Results (ug/kg)	Results/Method Detection Limits															
alpha-BHC	ND/5.14	ND/5.29	ND/5.17	ND/5.70	ND/5.81	ND/5.21	ND/5.73	ND/5.96	ND/6.55	ND/5.46	ND/5.11	ND/5.51	ND/5.28	ND/5.46	ND/6.12	50,000
beta-BHC	ND/5.14	ND/5.29	ND/5.17	ND/5.70	ND/5.81	ND/5.21	ND/5.73	ND/5.96	ND/6.55	ND/5.46	ND/5.11	ND/5.51	ND/5.28	ND/5.46	ND/6.12	10,000
delta-BHC	ND/5.14	ND/5.29	ND/5.17	ND/5.70	ND/5.81	ND/5.21	ND/5.73	ND/5.96	ND/6.55	ND/5.46	ND/5.11	ND/5.51	ND/5.28	ND/5.46	ND/6.12	10,000
gamma-BHC	ND/5.14	ND/5.29	ND/5.17	ND/5.70	ND/5.81	ND/5.21	ND/5.73	ND/5.96	ND/6.55	ND/5.46	ND/5.11	ND/5.51	ND/5.28	ND/5.46	ND/6.12	3
Heptachlor	ND/5.14	ND/5.29	ND/5.17	ND/5.70	ND/5.81	ND/5.21	ND/5.73	ND/5.96	ND/6.55	ND/5.46	ND/5.11	ND/5.51	ND/5.28	ND/5.46	ND/6.12	200
Aldrin	ND/5.14	ND/5.29	ND/5.17	ND/5.70	ND/5.81	ND/5.21	ND/5.73	ND/5.96	ND/6.55	ND/5.46	ND/5.11	ND/5.51	ND/5.28	ND/5.46	ND/6.12	40
Heptachlor epoxide	ND/5.14	ND/5.29	ND/5.17	ND/5.70	ND/5.81	ND/5.21	ND/5.73	ND/5.96	ND/6.55	ND/5.46	ND/5.11	ND/5.51	ND/5.28	ND/5.46	ND/6.12	90
Endosulfan I	ND/5.14	ND/5.29	ND/5.17	ND/5.70	ND/5.81	ND/5.21	31.3	ND/5.96	ND/6.55	ND/5.46	ND/5.11	ND/5.51	ND/5.28	ND/5.46	ND/6.12	500
Dieldrin	ND/5.14	ND/5.29	ND/5.17	ND/5.70	ND/5.81	ND/5.21	ND/5.73	ND/5.96	ND/6.55	ND/5.46	ND/5.11	ND/5.51	ND/5.28	ND/5.46	ND/6.12	50
4,4'-DDE (p,p')	ND/5.14	ND/5.29	ND/5.17	ND/5.70	ND/5.81	ND/5.21	ND/5.73	9.85	10.9	ND/5.46	ND/5.11	ND/5.51	ND/5.28	ND/5.46	ND/6.12	3,000
Endrin	ND/8.22	ND/8.47	ND/8.28	ND/9.11	ND/9.29	ND/8.33	ND/9.17	ND/9.54	ND/10.5	ND/8.74	ND/8.17	ND/8.82	ND/8.46	ND/8.73	ND/9.79	8,000
Endosulfan II	ND/8.22	ND/8.47	ND/8.28	ND/9.11	ND/9.29	ND/8.33	115	12.8	ND/10.5	ND/8.74	ND/8.17	ND/8.82	ND/8.46	ND/8.73	ND/9.79	500
4,4'-DDD (p,p')	ND/8.22	ND/8.47	ND/8.28	ND/9.11	ND/9.29	ND/8.33	ND/9.17	ND/9.54	ND/10.5	ND/8.74	ND/8.17	ND/8.82	ND/8.46	ND/8.73	ND/9.79	4,000
Endosulfan sulfate	ND/8.22	ND/8.47	ND/8.28	ND/9.11	ND/9.29	ND/8.33	566	13.9	ND/10.5	ND/8.74	ND/8.17	ND/8.82	ND/8.46	ND/8.73	ND/9.79	500
4,4'-DDT (p,p')	ND/8.22	ND/8.47	ND/8.28	ND/9.11	ND/9.29	ND/8.33	9.49	36.2	14.4	21.3	ND/8.17	ND/8.82	12.1	ND/8.73	ND/9.79	3,000
Methoxychlor	ND/8.22	ND/8.47	ND/8.28	ND/9.11	ND/9.29	ND/8.33	ND/9.17	ND/9.54	ND/10.5	ND/8.74	ND/8.17	ND/8.82	ND/8.46	ND/8.73	ND/9.79	200,000
Endrin ketone	ND/8.22	ND/8.47	ND/8.28	ND/9.11	ND/9.29	ND/8.33	ND/9.17	ND/9.54	ND/10.5	ND/8.74	ND/8.17	ND/8.82	ND/8.46	ND/8.73	ND/9.79	NS
alpha-Chlordane	ND/5.14	ND/5.29	ND/5.17	ND/5.70	ND/5.81	ND/5.21	ND/5.73	ND/5.96	ND/6.55	ND/5.46	ND/5.11	ND/5.51	ND/5.28	ND/5.46	ND/6.12	700
gamma-Chlordane	ND/5.14	ND/5.29	ND/5.17	ND/5.70	ND/5.81	ND/5.21	ND/5.73	ND/5.96	ND/6.55	ND/5.46	ND/5.11	ND/5.51	ND/5.28	ND/5.46	ND/6.12	700
Toxaphene	ND/103	ND/106	ND/103	ND/114	ND/116	ND/104	ND/115	ND/119	ND/131	ND/109	ND/102	ND/110	ND/106	ND/109	ND/122	10,000
Chlordane	ND/20.5	ND/21.2	ND/20.7	ND/22.8	ND/23.2	ND/20.8	ND/22.9	ND/23.8	ND/26.2	ND/21.8	ND/20.4	ND/22.1	ND/21.1	ND/21.8	ND/24.5	700
Diallate	ND/10.3	ND/10.6	ND/10.3	ND/11.4	ND/116	ND/10.4	ND/11.5	ND/11.9	ND/13.1	ND/10.9	ND/10.2	ND/11.0	ND/10.6	ND/10.9	ND/12.2	100,000
Alachlor	ND/5.14	ND/5.29	ND/5.17	ND/5.70	ND/5.81	ND/5.21	ND/5.73	ND/5.96	ND/6.55	ND/5.46	ND/5.11	ND/5.51	ND/5.28	ND/5.46	ND/6.12	100,000
Isodrin	ND/10.3	ND/10.6	ND/10.3	ND/11.4	ND/11.6	ND/10.4	ND/11.5	ND/11.9	ND/13.1	ND/10.9	ND/10.2	ND/11.0	ND/10.6	ND/10.9	ND/12.2	10,000
Chlorobenzilate	ND/10.3	ND/10.6	ND/10.3	ND/11.4	ND/11.6	ND/10.4	ND/11.5	ND/11.9	ND/13.1	ND/10.9	ND/10.2	ND/11.0	ND/10.6	ND/10.9	ND/12.2	50,000

NOTES:

NA = target analyte Not Analyzed.

ND/5.0 = target analyte Not Detected above the noted detection limit.

NS = No Standard.

Bold indicates target analyte exceeds the MCP RCS-1 Reportable Concentration

Reportable Concentrations are excerpted from 310 CMR 40.1600 Table 1.

Project #05-213212
Warren Equities
183 Turnpike Road
Westborough, MA

Table 6
Concentrations of
Polychlorinated Biphenyls by SW846 8082
Detected in Soil Samples

Sample Location	B-1	Reportable Concentrations
Sampling Date	2/10/2010	
Sample Depth (ft)	10-12 ft	RCS-1
Laboratory Analytical Results (mg/kg)	Results/Method Detection Limits	
PCB 1016	ND/20.5	2
PCB 1221	ND/20.5	
PCB 1232	ND/20.5	
PCB 1242	ND/20.5	
PCB 1248	ND/20.5	
PCB 1254	ND/20.5	
PCB 1260	ND/20.5	
PCB 1262	ND/20.5	
PCB 1268	ND/20.5	

NOTES:

NA = target analyte Not Analyzed.

ND/5.0 = target analyte Not Detected above the noted detection limit.

NS = No Standard.

Bold indicates target analyte exceeds the MCP RCS-1 Reportable Concentration.

Reportable Concentrations are excerpted from 310 CMR 40.1600 Table 1.

Project # 05-213212
Warren Equities
183 Turnpike Road
Westborough, MA

Table 7
Concentrations of
Volatile Petroleum Hydrocarbons (VPH)
Detected in Groundwater Samples
(MADEP Method VPH-04-1.1)

Sample Location	MW-1	MW-2	Reportable Concentrations
Sampling Date	2/22/10	2/22/10	
VPH Fractions (mg/L)	Results/Method Detection Limits		RCGW-1
C ₅ -C ₈ Aliphatics	ND/0.0750	ND/0.0750	0.3
C ₉ -C ₁₂ Aliphatics	ND/0.0250	ND/0.0250	0.7
C ₉ -C ₁₀ Aromatics	ND/0.0250	ND/0.0250	0.2
Targeted VPH Analytes (µg/L)			
Methyl-tert-butylether	ND/5.0	ND/5.0	70
Benzene	ND/5.0	ND/5.0	5
Toluene	ND/5.0	ND/5.0	1,000
Ethylbenzene	ND/5.0	ND/5.0	700
m,p- Xylenes	ND/10.0	ND/10.0	5,000
o-Xylene	ND/5.0	ND/5.0	
Naphthalene	ND/5.0	ND/5.0	140
NOTES:			
NA = target analyte Not Analyzed.			
ND/5.0 = target analyte Not Detected above the noted detection limit.			
NS = No Standard.			
Bold indicates target analyte above MCP RCGW-1 Reportable Concentration.			
Reportable Concentrations are excerpted from 310 CMR 40.1600 Table 1.			

Project # 05-213212
Warren Equities
183 Turnpike Road
Westborough, MA

Table 8
Concentrations of
Extractable Petroleum Hydrocarbons (EPH)
Detected in Groundwater Samples
(MADEP EPH-04-1.1)

Sample Location	MW-1	MW-2	Reportable Concentrations
Date	2/22/2010	2/22/10	
EPH Fractions (mg/L)	Results/Method Detection Limits		RCGW-1
C ₉ -C ₁₈ Aliphatics	ND/0.1	ND/0.1	0.7
C ₁₉ -C ₃₆ Aliphatics	ND/0.1	ND/0.1	14
C ₁₁ -C ₂₂ Aromatics	ND/0.1	ND/0.1	0.2
EPH Targeted Analytes (µg/L)			
Acenaphthene	ND/6.76	ND/5.38	20
Acenaphthylene	ND/6.76	ND/5.38	30
Anthracene	ND/6.76	ND/5.38	30
Benzo (a) anthracene	ND/6.76	ND/5.38	1
Benzo (b) fluoranthene	ND/6.76	ND/5.38	1
Benzo (k) fluoranthene	ND/6.76	ND/5.38	1
Benzo (a) pyrene	ND/6.76	ND/5.38	0
Benzo (g,h,i) perylene	ND/6.76	ND/5.38	20
Chrysene	ND/6.76	ND/5.38	2
Dibenzo (a,h) anthracene	ND/6.76	ND/5.38	1
Fluoranthene	ND/6.76	ND/5.38	90
Fluorene	ND/6.76	ND/5.38	30
Indeno (1,2,3-cd) pyrene	ND/6.76	ND/5.38	1
2-Methylnaphthalene	ND/6.76	ND/5.38	10
Naphthalene	ND/6.76	ND/5.38	140
Phenanthrene	ND/6.76	ND/5.38	40
Pyrene	ND/6.76	ND/5.38	20
NOTES:			
NA = target analyte Not Analyzed.			
ND/5.0 = target analyte Not Detected above the noted detection limit.			
NS = No Standard.			
Bold indicates target analyte above MCP RCGW-1 Reportable Concentration.			
Reportable Concentrations are excerpted from 310 CMR 40.1600 Table 1.			

Project # 05-213212 Warren Equities 183 Turnpike Road Westborough, MA	Table 9 Concentrations of Volatile Organic Compounds (VOCs) Detected in Groundwater Samples (USEPA Method 8260)	
Sample Location	MW-2	Reportable Concentrations
Sampling Date	2/22/10	RCGW-1
Volatile Organic Compounds (µg/l)		
Acetone	ND/10.0	6,300
Acrylonitrile	ND/0.5	1,000
Benzene	ND/1.0	5
Bromobenzene	ND/1.0	1,000
Bromoform	ND/1.0	NS
Bromochloromethane	ND/0.5	3
Bromodichloromethane	ND/1.0	4
Bromomethane	ND/2.0	7
2-Butanone (MEK)	ND/10.0	400
n-Butylbenzene	ND/1.0	NS
sec-Butylbenzene	1.60	NS
tert-Butylbenzene	ND/1.0	1,000
Carbon disulfide	ND/5.0	1,000
Carbon tetrachloride	ND/1.0	2
Chlorobenzene	ND/1.0	100
Chloroethane	ND/2.0	1,000
Chloroform	ND/1.0	50
Chloromethane	ND/2.0	1,000
2-Chlorotoluene	ND/1.0	NS
4-Chlorotoluene	ND/1.0	NS
1,2-Dibromo-3-chloropropane (DBCP)	ND/2.0	100
Dibromoform	ND/0.5	2
1,2-Dibromoethane (EDB)	ND/0.5	0.02
Dibromomethane	ND/1.0	5,000
1,2-Dichlorobenzene	ND/1.0	600
1,3-Dichlorobenzene	ND/1.0	40
1,4-Dichlorobenzene	ND/1.0	5
Dichlorodifluoromethane	ND/2.0	10,000
1,1-Dichloroethane	ND/1.0	70
1,2-Dichloroethane	ND/1.0	5
1,1-Dichloroethene	ND/1.0	7
cis-1,2-dichloroethene	ND/1.0	NS
trans-1,2-dichloroethene	ND/1.0	90
1,2-Dichloropropane	ND/1.0	3
1,3-Dichloropropane	ND/1.0	5,000
2,2-Dichloropropane	ND/1.0	NS
1,1-Dichloropropene	ND/1.0	5,000
cis-1,3-Dichloropropene	ND/0.5	0.4
trans-1,3-Dichloropropene	ND/0.5	700
Ethylbenzene	ND/1.0	10,000
Hexachlorobutadiene	ND/0.5	0.6
2-Hexanone (MBK)	ND/10.0	1,000
Isopropylbenzene	ND/1.0	10,000
4-Isopropyltoluene	ND/1.0	NS
Methyl-tert-butyl-ether (MTBE)	ND/1.0	70
4-Methyl-2-pentanone (MIBK)	ND/10.0	350
Methylene chloride (Dichloromethane)	ND/5.0	5
Naphthalene	ND/1.0	140
n-Propylbenzene	ND/1.0	NS
Styrene	ND/1.0	100
1,1,1,2-Tetrachloroethane	ND/1.0	5
1,1,2,2-Tetrachloroethane	ND/0.5	2
Tetrachloroethene (PCE)	ND/1.0	5
Toluene	ND/1.0	1,000
1,2,3-Trichlorobenzene	ND/1.0	NS
1,2,4-Trichlorobenzene	ND/1.0	70
1,1,1-Trichloroethane	ND/1.0	200
1,1,2-Trichloroethane	ND/1.0	5
Trichloroethene (TCE)	ND/1.0	5
Trichlorofluoromethane	ND/1.0	10,000
1,2,3-Trichloropropane	ND/1.0	1,000
1,2,4-Trimethylbenzene	ND/1.0	10,000
1,3,5-Trimethylbenzene	ND/1.0	100
Vinyl chloride	ND/1.0	2
m,p-Xylenes	ND/2.0	5,000
o-Xylene	ND/1.0	NS
1,1,2-Trichlorotrifluoroethane (Freon 113)	ND/1.0	NS
Tetrahydrofuran	ND/10.0	5,000
Ethyl ether	ND/1.0	1,000
Tert-amyl methyl ether	ND/1.0	NS
Ethyl tert-butyl ether	ND/1.0	NS
Di-isopropyl ether	ND/1.0	1,000
Tert-Butanol / butyl alcohol	ND/10.0	10,000
1,4-Dioxane	ND/20.0	3
trans-1,2-Dichloro-2-butene	ND/5.0	100
Ethanol	ND/400	1,000

NOTES:

NA = target analyte Not Analyzed.

ND/5.0 = target analyte Not Detected above the noted detection limit.

NS = No Standard.

Bold indicates target analyte above MCP RCGW-1 Reportable Concentration.

Reportable Concentrations are excerpted from 310 CMR 40.1600 Table 1.

Project # 05-213212
 Warren Equities
 183 Turnpike Road
 Westborough, MA

Table 10
Concentrations of
Dissolved Metals
Detected in Groundwater Samples
(EPA Method 6010B)

Sample Location	MW-1	MW-2	Reportable Concentrations
Date	2/22/2010	2/22/10	
Laboratory Analytical Results (mg/L)	Results/Method Detection Limits		RCGW-1
Arsenic	ND/0.0040	ND/0.0040	0.010
Chromium	NA	ND/0.0050	0.100
Lead	ND/0.0075	ND/0.0075	0.015

NOTES:

NA = target analyte Not Analyzed.

ND/5.0 = target analyte Not Detected above the noted detection limit.

NS = No Standard.

Bold indicates target analyte above MCP RCGW-1 Reportable Concentration.

Reportable Concentrations are excerpted from 310 CMR 40.1600 Table 1.

<p>Project # 05-213212 Warren Equities 183 Turnpike Road Westborough, MA</p>	<p>Table 11 Concentrations of Organochlorine Pesticides Detected in Groundwater Samples (Method 8081A)</p>		
Sample Location	MW-1	MW-2	Reportable Concentrations
Sampling Date	2/22/2010	2/22/2010	
Organochlorine Pesticides Results (ug/L)	Results/Method Detection Limits		RCGW-1
alpha-BHC	ND/0.024	ND/0.022	500
beta-BHC	ND/0.024	ND/0.022	100
delta-BHC	ND/0.024	ND/0.022	100
gamma-BHC	ND/0.024	ND/0.022	0.2
Heptachlor	ND/0.024	ND/0.022	0.4
Aldrin	ND/0.024	ND/0.022	0.5
Heptachlor epoxide	ND/0.024	ND/0.022	0.2
Endosulfan I	ND/0.024	ND/0.022	2
Dieldrin	ND/0.024	ND/0.022	0.1
4,4'-DDE (p,p')	ND/0.024	ND/0.022	0.05
Endrin	ND/0.047	ND/0.045	2
Endosulfan II	ND/0.047	ND/0.045	2
4,4'-DDD (p,p')	ND/0.047	ND/0.045	0.2
Endosulfan sulfate	ND/0.047	ND/0.045	2
4,4'-DDT (p,p')	ND/0.047	ND/0.045	0.3
Methoxychlor	ND/0.047	ND/0.045	100
Endrin ketone	ND/0.047	ND/0.045	NS
Endrin aldehyde	ND/0.047	ND/0.045	100
alpha-Chlordane	ND/0.024	ND/0.022	2
gamma-Chlordane	ND/0.024	ND/0.022	2
Toxaphene	ND/0.588	ND/0.562	100
Chlordane	ND/0.076	ND/0.073	2
Diallate	ND/0.059	ND/0.056	1,000
Alachlor	ND/0.024	ND/0.022	1000
Isodrin	ND/0.059	ND/0.056	100
Chlorobenzilate	ND/0.059	ND/0.056	500
Mirex	ND/0.059	ND/0.056	100
NOTES:			
NA = target analyte Not Analyzed.			
ND/5.0 = target analyte Not Detected above the noted detection limit.			
NS = No Standard.			
Bold indicates target analyte above MCP RCGW-1 Reportable Concentration.			
Reportable Concentrations are excerpted from 310 CMR 40.1600 Table 1.			

APPENDIX A



Photo: Subject Site, Parcel 13A portion of the site. View of the existing foundation.



Photo: Subject Site, Parcel 13 portion of the site. View of the garage and loading dock area.



Photograph: Subject Site, Parcel 13 portion of the site. Storage shed and area of former greenhouses.



Photograph: Subject Site, Parcel 13 portion of the site. View to the west across the site in the vicinity of the former 10,000 UST.



Photograph: View of the North Star Forum, located on the north adjacent property.



Photograph: The Curry Printing building, located on the south adjacent property.



Photograph: East Adjacent Property.



Photograph: View of the Green Thumb Nursery complex, located on the west adjacent Property.

APPENDIX B

33

13

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Map

Block

Lot

GREENHOUSE

1 of 1
CARDTOTAL ASSESSED: 1,011,700
13920!

Town of Westborou


Patriot
Properties Inc.

PROPERTY LOCATION

No	Alt No	Direction/Street/City
185		TURNPIKE RD, WESTBOROU

OWNERSHIP

Owner: BRENDON PROPERTIES THREE LLC

Owner:

Owner:

Street: 259 TURNPIKE ROAD

Street:

Twn/Cit: SOUTHBOROUGH

St/Prov: MA Cntr Own Oc|N

Postal: 01772 Type

PREVIOUS OWNER

Owner: MCGOLDRICK - LAWRENCE J TRUSTE

Owner: ONE EIGHTY-THREE TPKE RD TRUST -

Street: 183 TURNPIKE ROAD

Twn/Cit: WESTBOROUGH

St/Prov: MA Cntr

Postal: 01581

NARRATIVE DESCRIPTION

This Parcel contains 2.412 ACRES of land mainly classified as OTH OUT

OTHER ASSESSMENTS

Code	Descrip/No	Amount	Com. Int

IN PROCESS APPRAISAL SUMMAR

Use Code	Building Value	Yard Items	Land Size	Land Value	Total Value	Legal Description	User Acct
388	13,400		2.412	998,300	1,011,700		0
							GIS Ref
							GIS Ref
							Insp Date

PREVIOUS ASSESSMENT

Tax Yr	Use	Cat	Bldg Value	Yrd Item	Land Size	Land Valu	Total Valu	Asses'd Valu	Notes	Date
2010	388	FV		13400	2.412	898,400	911,800	911,800	Year End	11/6/2009
2009	325	10PR	34,300	14300	2.412	945,700	994,300	994,300	preliminary	5/28/2009
2009	318	FV	174,300	180900	2.412	945,700	1,300,900	1,300,900	year end	12/17/2008
2008	318	FV	174,300	188400	2.412	851,200	1,213,900	1,213,900		11/16/2007
2007	318	FV	171,000	188400	2.412	803,900	1,163,300	1,163,300		11/15/2006
2006	318	FV	171,000	188400	2.412	690,400	1,049,800	1,049,800		11/28/2005
2005	318	FV	179,400	188400	2.412	690,400	1,058,200	1,058,200	COMMITTED VALUE	11/23/2004
2004	318	FV	179,400	188400	2.412	690,400	1,058,200	1,058,200	roll	11/20/2003

Parcel ID: 33-13-0

SALES INFORMATION

Grantor	Legal Ref	Typ	Date	Sale Code	Sale Price	V	Tst	Verif	Assoc	PCL Value	Notes
MCGOLDRICK,LAW	39734-64		9/7/2006	INTRA-CORP	150000	No	No			SELLER STILL RUNS BUSINESS	
MCGOLDRICK ROB	13334 189		4/12/1991	FAMILY	100	No	No				
	3319 86		2/6/1963			0	No	No			

PAT ACCT.

Prior Id #	
ASR Map	
Fact Dist:	
Reval Dist	
Year:	
LandReas	
BldReason	

BUILDING PERMITS

Date	Number	Descrip	Amount	C/O	Last Visit	Fed Cod	F. Descrip	Comment
6/1/2009	213/2009	DEMOLITI	10,000	C	6/10/2009			

ACTIVITY INFORMATION

Date	Result	By	Name
1/8/2010	FIELDREV CHG	999	JOE WISBORO
6/10/2009	PERMIT VISIT	999	JOE WISBORO
5/12/2009	FIELDREV CHG	999	JOE WISBORO
5/8/2009	PERMIT VISIT	999	JOE WISBORO
9/22/1993	FIELDREV CHG	112	MIKE TUMULTY
5/30/1990	INFO FM PLAN	152	SCOTT BEDARD

Sign

VERIFICATION OF VISIT NOT DA / /

PROPERTY FACTORS

Itc	Code	Descrip	%	Item	Cod	Descrip
Z	BUS	BUS	100	U		
o				t		
n				I		
Census:						
Flood Haz:		xmpt				
D				Topo		
s				Stree		
t				Traffi		

LAND SECTION (First 7 lines only)

Use Code	Description	LUC Fact	No of Units	Depth / PriceUnits	Unit Type	Land Type	LT Factor	Base Value	Unit Price	Adj	Neigh	Neigh Influ	Neigh eigh	Infl 1	%	Infl 2	%	Infl 3	%	Appraised Value	Alt Class	%	Spec Land	J Code	Fact Use Value	Notes
388	OTH OUT		105081		SQUARE SITE			0	9.5	1.000	CV									998,270					998,300	

Total AC/H: 2.41233

Total SF/S: 105081.09

Parcel LU: 388 OTH OUT

Prime NB D COMM VG

Total: 998,270

Spl Cre

Total: 998,300

Disclaimer: This Information is believed to be correct but is subject to change and is not warranteed.

Database: AssessPro

apro

2011

EXTERIOR INFORMATION

BATH FEATURES

COMMENTS

SKETCH

Type:		Full Ba	Ratin
Sty Ht:		A Bath	Ratin
(Liv) Units	Total:	3/4 Bat	Ratin
Foundatio:		A 3QB	Ratin
Frame:		1/2 Bat	Ratin
Prime Wa:		A HBth	Ratin
Sec Wall:	%	Othr/Fix	Ratin

Roof Stru		OTHER FEATURES		
Roof Cov		Kits:	Ratin	
Color:		A Kits:	Ratin	
View / De		Frpl:	Ratin	
WSFlu		WSFlu	Ratin	

GENERAL INFORMATION

Grade:		CONDO INFORMATION		
Year Blt	Eff Yr Blt:	Location:		
Alt LUC	Alt %:	Total Unit		
Jurisdict	Fact:	Floor:		
Const Mod:		% Own:		
Lump Sum Adj		Name:		

INTERIOR INFORMATION

Avg Ht/FL		DEPRECIATION		
Prim Int		Phys Con	0.0	%
Sec Int W	%	Functiona		%
Partition:		Economic		%
Prim Floo		Special:	DM - DEMO	10%
Sec Floor	%	Override:		%
Bsmnt Flr		Total:	100	

CALC SUMMARY		COMPARABLE SALES		
Bsmnt Ga		Basic \$ / SQ:		Rate
Electric:		Size Adj.:	1.0000000	Parcel ID
Insulation:		Const Adj.:	8.0000000	Typ
Int vs Ext:		Adj \$ / SQ:		Date
Heat Fuel		Other Features	0	Sale Price
Heat Typ		Grade Factor:		
# Heat Sy		Neighborhood I	1.0000000	
% Heated	% AC:	LUC Factor:	1.00	
Solar HW	Central V	Adj Total:	0	
% Com	% Sprinkl	Depreciation:	0	
		Depreciated To	0	

SPEC FEATURES/YARD ITEMS

Code	Description	A	Y/	Qty	Size/Dim	Qual/Con	Year	Unit	Price	D/	Dep	LUC	Fact	NB F	Appr Value	JCo/JFac	Juris. Value
3	GARAGE	D	Y	1	25X45	F	FR	1965	21.60	T	45	388			13,400		13,400

RESIDENTIAL GRID

1st Res G	Des	# Unit
Level	FY LR DR D K FR RR BR FB HB L O	
Other		
Upp		
Lvl 2		
Lvl 1		
Low		

Total	RMs:	BR	Bath	H
Exterior	No Uni	RMS	BRS	FL
Interior:				
Addition				
Kitchen:				
Baths:				
Plumbin				
Electric:				
Heating				
General				
Totals				

SUB AREA

Code	Description	Area - SQ	Rate - AV	Undpr Value	Sub Area	% Usbl	Descrip	% Type	Qu	# Ten

IMAGE

AssessPro Patriot Properties, Inc

ZING Dpt.

DEPT. FILE COPY

BUILDING PERMIT

AMOUNT
PAID

VALIDATION

DATE June 1, 2009 PERMIT NO. 213/2009

APPLICANT Charles MacGregor ADDRESS 40 Fiske St., Natick PERMIT NO. 079409
(NO.) (STREET) (CONTR'S LICENSE)

PERMIT TO (TYPE OF IMPROVEMENT) (NO.) STORY (PROPOSED USE) NUMBER OF DWELLING UNITS

AT (LOCATION) 185 Turnpike Road ZONING DISTRICT
(NO.) (STREET)

BETWEEN AND
(CROSS STREET) (CROSS STREET)

SUBDIVISION LOT BLOCK LOT SIZE

BUILDING IS TO BE FT. WIDE BY FT. LONG BY FT. IN HEIGHT AND SHALL CONFORM IN CONSTRUCTION

TO TYPE USE GROUP BASEMENT WALLS OR FOUNDATION (TYPE)

REMARKS: demolish green houses and by attached building only
existing concrete pads remaining, no site work check # 1045

AREA OR VOLUME ESTIMATED COST \$ 10,000.00 PERMIT FEE \$ 100.00
(CUBIC/SQUARE FEET)

OWNER Brendon Properties BUILDING DEPT BY Jay J 6/1/09
ADDRESS 259 Turnpike Rd., Southboro

(Affidavit on reverse side of application to be completed by authorized agent of owner)

BUILDING PERMIT APPLICATION

Location of Building <i>185 Turnpike Rd</i>	Map <u>33</u> Parcel <u>3</u>	District Zoning <u>RHS</u>	Lot No. <u>-</u>	Subdivision <u>N/A</u>
Owner <i>Blenden Properties</i>	Name <i>259 Turnpike Rd Somers</i>	Address <i>40 FISCHER ST NACK</i>	Zip <i>07940</i>	Phone <i>584-465-3777</i>
Contractor <i>Charles McGraw</i>		License # <i>079409</i>		<u>505-726-9855</u>
Architect				

Non-residential

Type of Permit

- Construct Demolish New Building Business
 Reconstruct Relocate Existing Building Industrial
 Alteration Other (sign, etc.) Apartment Other

Description of work: DEMOLISH EXISTING GREENHOUSE AND ATTACHED BLDG

RECEIVEDResidential

Type of Permit

- Construct 1 or 2 family dwelling Swimming pool In-ground
 Reconstruct Garage Add ~~bathroom~~ WESTERNSIDE Above-ground
 Alteration Room Addition Re-side ~~BUILDING DEPARTMENT~~ No. of Smoke
 Demolish Porch open Re-roof Detectors
 Relocate Deck enclosed Woodstove Type of
 Other Familyroom Other Detectors:
JUN 01 2009

Description of work:

Type of Construction	<u>To be completed by ALL applicants</u>		Cost
<input type="radio"/> Masonry <input type="radio"/> Wood frame <input checked="" type="checkbox"/> Structural Steel <input type="radio"/> Reinf. Concrete	Type of Sewage Disposal and Water Supply	Sewer <input type="radio"/> Public <input checked="" type="checkbox"/> Septic	Bldg Const. _____
		Water <input type="radio"/> Public <input type="radio"/> Well	Electrical _____
			Plumbing _____
			Heating _____
			Other _____
			Total <u>10,000</u>

Type of Heat	Residential use only No. of bedrooms _____ No. of bathrooms _____ Full _____ Partial _____	Dimensions No. of stories _____ Sq. Ft. of all building area _____ Total sq/ft land area <u>3000</u>
--------------	---	---

Drawing Requirements: Residential - A completed plot plan with all zoning setbacks, construction plans and a copy of the septic plan must be submitted with this application.

Leslie S. Crary Non-residential - In addition to the residential requirement, submit all information for site plan review as outlined in Section 1200 of the Zoning By-Laws.

Signature of owner

Address

Date

Permit fee <u>100 -</u>	Bldg Inspector	Selectmen
Date Issued <u>1/1/11</u>	DPW Manager	CK #1045

A1 Spectrum Services

69 Wentworth Road, Revere, MA 02151-2155

43 Eight Lots Road, Sutton, MA 01590

Phone: 508-865-4525 • Fax: 508-865-5525

Email: alspec@charter.net

*BIDG Department*

March 24, 2009

Report For: Brendon Properties
Attn.: Gary Alcock
259 Turnpike Road
Southborough, MA 01772

Project: Green House
185 Turnpike Road
Westborough, MA

Date of Inspection: March 23, 2009

Scope: It was requested that a visual inspection be performed to verify the complete removal of asbestos containing materials (transite panels) from the above entitled structure. The abatement was done entirely by the whole peice method. For this reason an air test was not performed. The inspection was performed by Nicholas Gravallese, an AHERA accredited and Massachusetts licensed project monitor.

Comment: A complete and thorough abatement was performed and there was no suspect transite or suspect debris observed at the time of the inspection.

Accordingly, the abatement is deemed complete.

Robert F. Gravallese
AM # 061537
AA# 000152

c: file



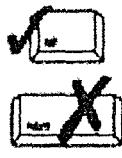
Commonwealth of Massachusetts

100088543

Decal Number

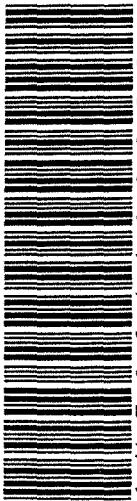
Asbestos Notification Form ANF-001

Important:
When filling out forms on the computer, use only the tab key to move your cursor - do not use the return key.



INSTRUCTIONS

1. All sections of this form must be completed in order to comply with DEP notification requirements of 310 CMR 7.15 and the Division of Occupational Safety (DOS) notification requirements of 453 CMR 6.12



A. Asbestos Abatement Description

1. a. Is this facility fee exempt - city, town, district, municipal housing authority, owner-occupied residence of four units or less? Yes No

b. Provide blanket decal number if applicable:

Blanket Decal Number

2. Facility Location:

BRENDON PROPERTIES

a. Name of Facility

Westborough

MA

c. City/Town

185 TURNPIKE RD (FORMERLY 187 TURNPIKE)

b. Street Address

01876

e. Zip Code

f. Telephone Number

3. Worksite Location:

FIRST FLOOR GREENHOUSE

a. Building Name/Building Location

b. Building #

IN HOUSE ABATEMENT

b. Address

6172925500

e. Telephone Number

c. Wing d. Floor e. Room

4. Is the facility occupied? Yes No

5. Asbestos Contractor:

DEMOLITIONS INHOUSE OR HOMEOWNERS

a. Name

INHOUSE

02108

c. City/Town

d. Zip Code

AC000000

f. DOS License Number

h. Facility Contact Person

NON LICENSED REMOVAL NON LICENSED R

a. Name of On-Site Supervisor/Foreman

A1 SPECTRUM

a. Name of Project Monitor

A1 SPECTRUM

a. Name of Asbestos Analytical Lab

3/13/2009

a. Project Start Date (mm/dd/yyyy)

8-4

c. Work hours Mon-Fri.

IN HOUSE ABATEMENT

b. Address

6172925500

e. Telephone Number

g. Contract Type: Written Verbal

i. Contact Person's Title

AS000000

b. Supervisor/Foreman DOS Certification Number

AM061537

b. Project Monitor DOS Certification Number

N/A

b. Asbestos Analytical Lab DOS Certification Number

3/23/2009

b. End Date (mm/ dd/ yyyy)

8-4

d. Work hours Sat-Sun.

10. a. What type of project is this?

 Demolition Renovation Repair Other, please specify:

b. Describe

11. a. Check abatement procedures:

 Glove bag Encapsulation Enclosure Disposal only Cleanup Other, specify: Full-containment**WHOLE PIECE METHOD**

b. Describe

12. Is the job being conducted: Indoors? Outdoors?



Commonwealth of Massachusetts

100088543

Decal Number

Asbestos Notification Form ANF-001

A. Asbestos Abatement Description (cont.)

13. Total amount of each type of Asbestos Containing Materials (ACM) to be removed, enclosed, or encapsulated:

0

a. Total pipes or ducts (linear ft)

c. Boiler, breaching, duct, tank surface coatings

e. Corrugated or layered paper pipe insulation

g. Spray-on fireproofing

i. Cloths, woven fabrics

k. Thermal, solid core pipe insulation

1280

b. Total other surfaces (square ft)

Lin. ft.

Sq. ft.

d. Insulating cement

f. Trowel/Sprayer coatings

h. Transite board, wall board

j. Other, please specify:

Lin. ft.

Sq. ft.

Lin. ft.

Sq. ft.

Lin. ft.

Sq. ft.

1280

Lin. ft.

Sq. ft.

I. Specify

14. Describe the decontamination system(s) to be used:

WHOLE PIECE METHOD

15. Describe the containerization/disposal methods to comply with 310 CMR 7.15 and 453 CMR 6.14(2)(g):

30 YARD DOUBLE LINED BLADDER BAG CONTAINER
--

16. For Emergency Asbestos Operations, the DEP and DOS officials who evaluated the emergency:

a. Name of DEP Official

b. Title

c. Date (mm/dd/yyyy) of Authorization

C-AW-09-157

e. Name of DOS Official

d. DEP Waiver #

f. DOS Official Title

N/A

g. Date (mm/dd/yyyy) of Authorization

h. DOS Waiver #

17. Do prevailing wage rates as per M.G.L. c. 149, § 26, 27 or 27A-F apply to this project? Yes No

B. Facility Description

GREEN HOUSE AND GARDEN CENTER

1. Current or prior use of facility:

2. Is the facility owner-occupied residential with 4 units or less? Yes No

BRENDON PROPERTIES

259 TURNPIKE ROAD

a. Facility Owner Name

b. Address

SOUTHBOROUGH

01772

508-485-3999

c. City/Town

d. Zip Code

e. Telephone Number (area code and extension)

4. a. Name of Facility Owner's On-Site Manager

b. On-Site Manager Address

c. City/Town

d. Zip Code

e. Telephone Number (area code and extension)



Asbestos Notification Form ANF-001**B. Facility Description (cont.)**

5. a. Name of General Contractor	b. Address
<input type="text"/>	<input type="text"/>
c. City/Town	d. Zip Code
<input type="text"/>	<input type="text"/>
f. Contractor's Worker's Comp. Insurer	
6. What is the size of this facility?	e. Telephone Number (area code and extension)
	<input type="text"/>
	g. Policy Number
	<input type="text"/>
	h. Exp. Date (mm/dd/yyyy)
	<input type="text"/>
a. Square Feet	b. Number of floors

C. Asbestos Transportation and Disposal

1. Transporter of asbestos-containing material from site to temporary storage site (if necessary):

Note: Transfer Stations must comply with the Solid Waste Division Regulations 310 CMR 19.000

RED TECHNOLOGIES, LLC	173 PICKERING STREET
a. Name of Transporter	b. Address
<input type="text"/>	<input type="text"/>
PORTLAND, CT	8603421022
c. City/Town	d. Zip Code
<input type="text"/>	<input type="text"/>
a. Name of Transporter	b. Address
<input type="text"/>	<input type="text"/>
c. City/Town	d. Zip Code
<input type="text"/>	<input type="text"/>
a. Refuse Transfer Station and Owner	b. Address
<input type="text"/>	<input type="text"/>
c. City/Town	d. Zip Code
<input type="text"/>	<input type="text"/>
3.	e. Telephone Number
4. MINERVA ENTERPRISES INC	<input type="text"/>
a. Final Disposal Site Location Name	b. Final Disposal Site Location Owner's Name
<input type="text"/>	<input type="text"/>
c. Final Disposal Site Address	WAYNESBURG
OH	d. City/Town
e. State	<input type="text"/>
	g. Telephone Number
44688	<input type="text"/>
f. Zip Code	<input type="text"/>

D. Certification

The undersigned hereby states, under the penalties of perjury, that he/she has read the Commonwealth of Massachusetts regulations for the Removal, Containment or Encapsulation of Asbestos, 453 CMR 6.00 and 310 CMR 7.15, and that the information contained in this notification is true and correct to the best of his/her knowledge and belief.

CHARLES MACGREGOR	<input type="text"/>
a. Name	b. Authorized Signature
PROJECT MANAGER	<input type="text"/>
c. Position/Title	d. Date (mm/dd/yyyy)
5084853999	<input type="text"/>
e. Telephone Number	BRENDON PROPERTIES
259 TURNPIKE ROAD	<input type="text"/>
g. Address	f. Representing
SOUTHBOROUGH	<input type="text"/>
h. City/Town	01772
	i. Zip Code



E.P.A. AGENCY

27484

173 Pickering Street
Portland, CT 06480
(860) 342-1022
Fax: (860) 342-1042

CT, MA RI, VT, NH, ME
GENERATORS
EPA New England
1 Congress Street
Boston, MA 02114-2023
(617) 918-1111

NY GENERATORS
EPA Region 2
290 Broadway, 26th Floor
New York, NY 10007-1866
(212) 264-6770

TK# 27484 ASBESTOS DISPOSAL & DOCUMENTATION FORM

Job Number	P.O. #	GENERATOR/BUILDING OWNER							
Contractor	Brendan Properties								
Address	259 Turnpike Rd Suite 110								
City	Southboro	State	MA	Zip					
Telephone Number	508 485 3999								
Date Container Del.	3.13.09	Date of Pickup	3.13.09						
Type of Container	Open Top								
VOLUME	30	CY	Friable	<input checked="" type="checkbox"/>					
MUST BE IN CUBIC YARDS									
RQ, Asbestos, 9, NA2212, PG, 111									
Bag	<input type="checkbox"/>	Drum	<input type="checkbox"/>	T-Pack	<input type="checkbox"/>	Wrapped	<input checked="" type="checkbox"/>	Other	<input type="checkbox"/>

I certify the above named material does not contain free liquid as defined by 40 CFR part 260.10 or any applicable state law, is not a hazardous waste as defined by 40 CFR part 261 or any applicable state law, has been properly described, classified and packaged, and is in proper condition for transportation according to NESHAP standards for asbestos waste disposal found in 40 CFR part 61.150.

Shipper's Certification: I hereby declare that the contents of this consignment are fully and accurately described above by the proper shipping name, and are classified, packaged, marked and labeled/placarded, and are in all respects in proper condition for transport according to applicable international and national government regulations.

AUTHORIZED SIGNATURE Mary Alcock

Transporter 1:	<u>Mary Alcock</u>	Name	Address	Telephone #
Driver:	<u>N/A</u>	Signature	Registration #:	Date:
State / #				

Acknowledgement of receipt of materials

Transporter 2:	RED Technologies LLC, 10 Northwood Drive Bloomfield, CT 06002	860-218-2428		
Driver:	<u>Centro</u>	Name	Address	Telephone #
	<u>Signature</u>	Registration #:	<u>476917ct</u>	Date: <u>3/13/09</u>
State / #				

Acknowledgement of receipt of materials

Transfer Facility:	Charles M. Gordon & Sons, Inc. 203 Pickering Street, Portland, CT 06480	860-342-1022
By:	<u>Lindsay Kelly</u>	Telephone #
	Transfer Date:	Permit #

Discrepancy:

Certification of transfer of materials covered by this manifest

Transporter 3:	<u>Bumpus</u>	Name	Address	Telephone #
Driver:	<u>D. Deagon</u>	Signature	Registration #:	Date:
State / #				

Acknowledgement of receipt of materials

Landfill Name:	Minerva Enterprises	O Landfill Name:	
Location:	9000 Minerva Rd. Waynesburg, OH 44688	T Location:	
Ph:	330-866-3435	E Ph:	
Permit #		Permit #	

Approximate Volume of Asbestos Received:

Discrepancy If Any:

Commonwealth of Massachusetts
Department of Fire Services - Board of Fire Prevention

F.D.
Cxt#0965 7/3/06
Fee: \$20 -

APPLICATION and PERMIT

for storage tank removal and transportation to approved tank disposal yard in accordance with the provisions of M.G.L. Chapter 148, Section 38A, 527 CMR 9.00, application is hereby made by:

Tank Owner

Tank Owner Name (please print) Bob McGoldrick Robert P. McGoldrick
 Signature (if applying for permit)

Address 187 Turnpike Rd Street Westboro City MA State 01581 Zip

Removal Contractor

Company Name Nuvak Tank Removal
 Address _____ Print _____
 Signature (if applying for permit) _____

IFCI Certified Other _____

Contamination Assessment

Matthew Dziubleniuk
 Co. or Individual Irwin Engineers, Inc. Print
 Address 33 West Central St. Natick, MA
 Signature (if applying for permit) _____

IFCI Certified LSP # _____ Other _____

Tank Information

Tank Location 187 Turnpike Rd Street Address Westboro City
 Tank Capacity (gallons) 10,000 Substance Last Stored heating oil
 Tank Dimensions (diameter x length) ≈ 8.5 x 26'
 Remarks: originally indicated as heating oil.

July 18, 2006 - 1455 hrs. Irwin Engineers called and said that the oil that had been in the tank was used motoroil. Matthew Dziubleniuk, C.R.

Disposal Information:

Firm transporting waste Univer Industrial Services State Lic. # 243 TAR MUNIF. DOCT. # 400003
 Hazardous waste manifest# MAQ 854369 E.P.A. # MP50B3421524
 Approved tank disposal yard Reisner's Tank yard # D.J. Trucking
 Type of inert gas _____ Tank yard address 33 Elm St. Clinton, MA Transporting tank to yard

Approvals

City or Town Westboro FDID# 27328 Permit# 06-16
 Date of issue 7-3-06 Date of expiration 8-3-06
 Dig safe approval number: 20062700702 Dig Safe Toll Free Tel. Number - 800-322-4844
 Signature / Title of Officer granting permit J. M. Peterson

After removal(s) send Form FP-290R signed by Local Fire Dept. to UST Regulatory Compliance Unit, One Ashburton Place, Room 1310, Boston, MA 02108-1618.

NAME AND ADDRESS JOHN C. TOMBARELLO & SONS
 OF 207 MARSTON ST.
 APPROVED TANK YARD LAWRENCE, MASS. 01841

1,000
Green Thumb



APPROVED TANK YARD NO. 1 4 9 0 1

Tank Yard Ledger 502 CMR 3.03(4) Number: 8 7 0 3 0 5 0

I certify under penalty of law I have personally examined the underground steel storage tank delivered to this "approved tank yard" by firm, corporation or partnership Zecco and accepted same in conformance with Massachusetts Fire Prevention Regulation 502 CMR 3.00 Provisions for Approving Underground Steel Storage Tank dismantling yards. A valid permit was issued by LOCAL Head of Fire Department FDID# 27348 to transport this tank to this yard.

Name and official title of approved tank yard owner or owners authorized representative:

COV

10/23/07

TITLE

DATE SIGNED

SIGNATURE

This signed receipt of disposal must be returned to the local head of the fire department FDID# 27348 pursuant to 502 CMR 3:00. (EACH TANK MUST HAVE A RECEIPT OF DISPOSAL)

FORM F.P. 291

(OVER)

MASSACHUSETTS STATE FIRE MARSHAL'S OFFICE

RECEIPT OF DISPOSAL OF UNDERGROUND STEEL STORAGE TANK

NAME AND ADDRESS JOHN C. TOMBARELLO & SONS
 OF 207 MARSTON ST.
 APPROVED TANK YARD LAWRENCE, MASS. 01841

5/00
Green Thumb



APPROVED TANK YARD NO. 1 4 9 0 1

Tank Yard Ledger 502 CMR 3.03(4) Number: 8 7 0 3 0 4 8

I certify under penalty of law I have personally examined the underground steel storage tank delivered to this "approved tank yard" by firm, corporation or partnership Zecco and accepted same in conformance with Massachusetts Fire Prevention Regulation 502 CMR 3.00 Provisions for Approving Underground Steel Storage Tank dismantling yards. A valid permit was issued by LOCAL Head of Fire Department FDID# 27328 to transport this tank to this yard.

Name and official title of approved tank yard owner or owners authorized representative:

COV

10/23/07

TITLE

DATE SIGNED

This signed receipt of disposal must be returned to the local head of the fire department FDID# 27225 pursuant to 502 CMR 3:00. (EACH TANK MUST HAVE A RECEIPT OF DISPOSAL)

FORM F.P. 291

(OVER)

MASSACHUSETTS STATE FIRE MARSHAL'S OFFICE

ZECO, INC.
 345 WEST MAIN ST.
 NORTHBORO, MA 01532

REMITTANCE ADVICE

DETACH BEFORE DEPOSITING

VENDOR NO.

VENDOR NAME

TRANSACTION DATE	REFERENCE	GROSS AMOUNT	DISCOUNTS/RETENTIONS	NET AMOUNT
	501			
	Tank Removal Permit			
	Green Thumb			
	Rte 9			
	Westboro, Ma.			
CHECK DATE	CHECK NO.	TOTAL GROSS	TOTAL DEDUCTIONS	CHECK AMOUNT

TANK DATA

ON 7-12-06, Lt. Romano and I went to this site at the request of owner, Robert McGoldrick, to look at tank. Tank was 3/4 unearthed. There was no evidence of any leakage. Tank will be completely removed tomorrow. we will go back to the site tomorrow.

W. A. Flan



TOWN OF WESTBOROUGH

FIRE - RESCUE - EMERGENCY MEDICAL SERVICES

Walter N. Perron, Chief

Captains:

Calvin A. Lawrence

Philip M. Kittredge

Joseph R. Lawrence

Norman D. Beausoleil

42 MILK STREET

WESTBOROUGH, MA 01581-1208

TELEPHONE (508) 366 3040

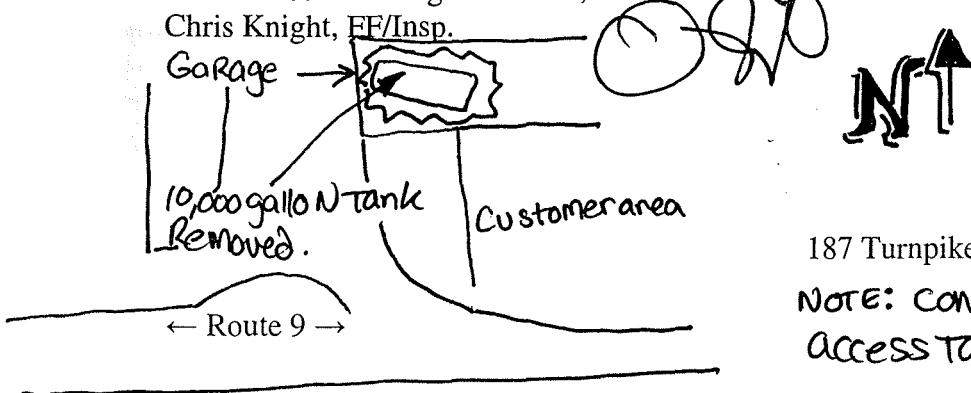
FAX (508) 366-0079

BUREAU OF FIRE PREVENTION

July 18, 2006

On 7/18/2006 I went to 187 Turnpike Road at the request of the owner Mr. McGolderick. I arrived at about 0900 hours to find D.J. Trucking on site with a backhoe, trailer, and dump truck. Mr. McGolderick was also present. They had excavated previously around a 10,000 gallon heating oil tank and were getting ready to pull it out. The tank had not been used for a number of years and the fill port/connection had been removed sometime in the past. There was not any odor or discoloration around the tank or in the hole excavated. Shortly after our arrival a representative from Irwin Engineering arrived to represent the buyer to observe the pull. At approximately 0915 I had to leave for another inspection and indicated that they could pull the tank. At about 1030 I arrived again and the contractor had the tank out and on the flatbed trailer. The contractor asked if we wanted to look in the tank and I said yes. He unbolted the manhole and removed the cover. At this time I was called away for a first alarm investigation. At about 1130 hours I arrived again and was able to climb the ladder on the side of the tank and look in. There were no holes noted and the tank had been cleaned out. An attempt was made by the owner to get dry ice but was unable to obtain any. The Tank had been cleaned well and there did not seem to be a strong odor in the tank. The representative from Irwin Engineering indicated that they would be testing samples taken from the hole. The permit was issued . Documentation on waste removal and cleaning was also given to us. Refer to location diagram below, not to scale.

Chris Knight, FF/Insp.



187 Turnpike Road

NOTE: concrete slab cut away to
access tank. CIR

NORTHBOROUGH YOUTH
PROGRAM INC.

PROPOSED CONCRETE
PAD 28' x 9'



ZONE: INDUSTRIAL B

PLOT
PLAN OF L.
IN WESTBOROUGH,
PREPARED FOR:
ROBERT McGOLDRI

GreenThumb - in zone III

GreenThumb

10,000 gal fuel oil w/ permit only

Propose install (1) 10,000 gal above ground tank

Remove (1) 10,000 gal underground.

Retain permit only if only 1 tank

Secondary confinement per Aquifer Plan
must contain spill of tank's entire
capacity

33

13A

0

Map

Block

Lot

RESIDENTIAL

1 of 1

CARD

TOTAL ASSESSED: 420,300

13921!

Town of Westborou


Patriot
Properties Inc.

PROPERTY LOCATION

No	Alt No	Direction/Street/City
183		TURNPIKE RD, WESTBOROU

OWNERSHIP

Owner: BRENDON PROPERTIES THREE LLC

Owner:		
Owner:		
Owner:		
Street:	259 TURNPIKE ROAD	
Street:		
Twn/Cit:	SOUTHBOROUGH	
St/Prov:	MA	Cntr
Postal:	01772	Type

PREVIOUS OWNER

Owner: MCGOLDRICK - JUNE D

Owner:		
Street:	183 TURNPIKE RD	
Twn/Cit:	WESTBOROUGH	
St/Prov:	MA	Cntr
Postal:	01581	

NARRATIVE DESCRIPTION

This Parcel contains 1.15 ACRES of land mainly classified as LAND-C

OTHER ASSESSMENTS

Code	Descrip/No	Amount	Com. Int.

IN PROCESS APPRAISAL SUMMAR

Use Code	Building Value	Yard Items	Land Size	Land Value	Total Value	Legal Description	User Acct
390			1.150	420,300	420,300		0
							GIS Ref
Total Card			1.150	420,300	420,300	Entered Lot Size	GIS Ref
Total Parcel			1.150	420,300	420,300	Total Land:	Insp Date
Source:	Market Adj Co	Total Value per SQ unit /Car	N/A	/Parc	N/A	Land Unit Type	

PREVIOUS ASSESSMENT

Tax Yr	Use	Cat	Bldg Value	Yrd Item	Land Size	Land Valu	Total Valu	Asses'd Valu	Notes	Date
2010	101	FV	58,800	0	1.15	202,700	261,500	261,500	Year End	11/6/2009
2009	101	10PR	67,000	0	1.15	202,700	269,700	269,700	preliminary	5/28/2009
2009	101	FV	120,700	0	1.15	202,700	323,400	323,400	year end	12/17/2008
2008	101	FV	131,300	0	1.15	202,700	334,000	334,000		11/16/2007
2007	101	FV	131,300	0	1.15	202,700	334,000	334,000		11/15/2006
2006	101	FV	131,300	0	1.15	202,700	334,000	334,000		11/28/2005
2005	101	FV	136,000	0	1.15	156,100	292,100	292,100	COMMITTED VALUE	11/23/2004
2004	101	FV	148,400	0	1.15	136,500	284,900	284,900	roll	11/20/2003

SALES INFORMATION

Grantor	Legal Ref	Typ	Date	Sale Code	Sale Price	V	Tst	Verif	Assoc PCL Value	PAT ACCT.	Notes
MCGOLDRICK,JUN	39734-68		9/7/2006	INTRA-CORP	650000	No	No	No		3921	SEE DEED FOR 33-13, COMB
MCGOLDRICK,JUN	39734-66		9/7/2006	CONVIENCE	100	No	No	No			RELEASE OF INTEREST BY LAWRENCE MCG
ONE EIGHTY-THRE	13700 359		10/16/19	FAMILY	100	No	No	No			Year.

BUILDING PERMITS

Date	Number	Descrip	Amount	C/O	Last Visit	Fed Cod	F. Descrip	Comment	Date	Result	By	Name
6/12/2009	214/2009	DEMOLITI	15,000	C	9/9/2009			INT. DEMO STARTED	9/9/2009	PERMIT VISIT	999	JOE WISBORO

AssessPro Patriot Properties, Inc.

SKETCH

COMMENTS

301-1991

Type:		Full Ba	Ratin
Sty Ht:		A Bath	Ratin
(Liv) Units	Total:	3/4 Bat	Ratin
Foundatio		A 3QB	Ratin
Frame:		1/2 Bat	Ratin
Prime Wa		A HBth	Ratin
Sec Wall:	%	OthrFix	Ratin

OTHER FEATURES

1st Res G	Des	# Unit
Level	FY LR DR D K FR RR BR FB HB L C	
Other		
Upper		
LVL 2		
LVL 1		
Low		
Total	RMS	RR Bath H

CONDO INFORMATION

Grade:		CONDO INFORMATION	
Year Blt	Eff Yr Blt:	Location:	
Alt LUC	Alt %:	Total Unit	
Jurisdict	Fact:.	Floor:	
Const Mod:		% Own:	
Lump Sum Adj		Name:	

INTERIOR INFORMATION

DEPRECIATION

Avg Ht/FL		Phys Con	0.0
Prim Int		Functiona	
Sec Int W	%	Economic	
Partition:		Special:	DM - DEMO
Prim Floo		Override:	
Sec Floor	%	Total:	0

CALC SUMMARY

CALC SUMMARY	
Bsmnt Flr	Basic \$ / SQ:
Bsmnt Ga	Size Adj.: 1.0000000
Electric:	Const Adj.: 8.0000000
Insulation:	Adj \$ / SQ:
Int vs Ext:	Other Features: 0
Heat Fuel	Grade Factor:
Heat Typ	Neighborhood: 1.0000000
# Heat Sy	LUC Factor: 1.00
% Heated	Adj Total: 0
Solar HW	Depreciation: 0
% Com	Depreciated To: 0

COMPARABLE SALES

SUB AREA

SUB AREA DETAIL

Sub Area	% Usbl	Descrip	% Type	Qu	# Ter
----------	--------	---------	--------	----	-------

IMAGE

PARCEL ID 33-13A-0

More N

Total Yardage

Total Special Features

Total:

Building Dept.

DEPT. FILE COPY

BUILDING PERMIT

AMOUNT
PAID

VALIDATION

DATE June 12, 2009

PERMIT NO. 214/2009

APPLICANT Charles MacGregor ADDRESS 40 Fiske Street, Natick PERMIT NO. 170409
(NO.) (STREET) (CONTR'S LICENSE)

PERMIT TO () STORY NUMBER OF DWELLING UNITS
(TYPE OF IMPROVEMENT) NO. (PROPOSED USE)

AT (LOCATION) 183 ZONING DISTRICT Turnpike Road
(NO.) (STREET)

BETWEEN AND
(CROSS STREET) (CROSS STREET)

SUBDIVISION LOT BLOCK LOT SIZE

BUILDING IS TO BE FT. WIDE BY FT. LONG BY FT. IN HEIGHT AND SHALL CONFORM IN CONSTRUCTION

TO TYPE USE GROUP BASEMENT WALLS OR FOUNDATION
(TYPE)

REMARKS: demolish house

check # 1044

AREA OR VOLUME (CUBIC/SQUARE FEET) ESTIMATED COST \$ 15,000.00 PERMIT FEE \$ 150.00

OWNER Brendon Properties BUILDING BY 7/30/09
ADDRESS 259 Turnpike Rd., Southboro

(Affidavit on reverse side of application to be completed by authorized agent of owner)

BIDY Dpt

BUILDING PERMIT APPLICATION

Location of Building	Map _____ Parcel _____	District Zoning _____	Lot No. _____	Subdivision _____
Owner	Name _____	Address _____		Zip _____ Phone _____
Contractor	BRONSON Properties	289 Turnpike Rd		01772 508-485-3809
Architect	Charles MacLennan	40 Fiske St Natick	License # 079407	01760 508-726-9165

Non-residential

Type of Permit

- Construct Demolish New Building Business
 Reconstruct Relocate Existing Building Industrial
 Alteration Other (sign, etc.) Apartment Other

Description of work:

Residential

Type of Permit

- Construct 1 or 2 family dwelling Swimming pool Inground
 Reconstruct Garage Add bathroom Aboveground
 Alteration Room Addition Re-side No. of Smoke
 Demolish Porch open Detectors
 Relocate Deck enclosed Re-roof
 Other Familyroom Woodstove
RECEIVED

Description of work:

*House*TOWN OF WESTBOROUGH
BUILDING DEPARTMENT

To be completed by ALL applicants		Cost
Type of Construction	Type of Sewage Disposal and Water Supply	Bldg. Const. _____ Electrical _____ Plumbing _____ Heating _____ Other _____ Total <u>15,000</u>
<input type="radio"/> Masonry <input checked="" type="radio"/> Wood frame <input type="radio"/> Structural Steel <input type="radio"/> Reinf. Concrete	Sewer <input type="radio"/> Public <input checked="" type="radio"/> Public <input checked="" type="radio"/> Septic <input type="radio"/> Well	

Type of Heat	Residential use only No. of bedrooms <u>4</u> No. of bathrooms <u>2.5</u> Full <u>✓</u> Partial <u>1</u>	Dimensions No. of stories <u>1</u> Sq. Ft. of all building area <u>1600</u> Total sq/ft land area _____
--------------	---	--

Drawing Requirements: Residential - A completed plot plan with all zoning setbacks, construction plans and a copy of the septic plan must be submitted with this application.
Leslie S. Carey Non-residential - In addition to the residential requirement, submit all information for site plan review as outlined in Section 1200 of the Zoning By-Laws.

See back of page Signature of owner 289 Turnpike Rd Somerville Date 5/11/09

Permit fee <u>150</u>	Bldg Inspector _____	Selectmen _____
Date Issued <u>1</u>	DPW Manager _____	C.K.# <u>1044</u>

A1 Spectrum Services

69 Wentworth Road, Revere, MA 02151-2155
43 Eight Lots Road, Sutton, MA 01590
Phone: 508-865-4525 • Fax: 508-865-5525
Email: alspec@charter.net



May 11, 2009

Report For: Brendon Properties, Inc.
Attn.: Charlie
259 Turnpike Rd
Southborough MA 01772

Project: Residence
183 Turnpike Road
Westborough, MA

Date of Sampling: May 10, 2009

Date of Analysis: May 10, 2009

Scope: It was requested that a visual inspection be performed and a final air sample be collected and analyzed for fiber content. The inspection and air sampling were performed by Robert Gravallese, an AHERA accredited and Massachusetts licensed project monitor.

Methodology: The air sample was collected in accordance with 453 CMR 6.00. The sample was analyzed by the NIOSH 7400 method for Phase Contrast Microscopy.

Results:

Sample ID	Location	Start	Stop	Type	Result F/cc	LOD
5.10.9.187tur1	Kitchen/LR	9:45	10:55 AM	Final	F0.006	<0.003
5.10.9.187tur2	LR	9:45	10:55 AM	Final	F0.007	<0.003

Comment: The current clearance standard in the State of Massachusetts is 0.01 fibers/cc of air. The airborne fiber level in this area was below this level.


Robert F. Gravallese
AM # 061537
AA# 000152



Commonwealth of Massachusetts

100088270

Decal Number

Asbestos Notification Form ANF-001

Important:
When filling out
forms on the
computer, use
only the tab key
to move your
cursor - do not
use the return
key.

**INSTRUCTIONS**

1. All sections of this form must be completed in order to comply with DEP notification requirements of 310 CMR 7.16 and the Division of Occupational Safety (DOS) notification requirements of 453 CMR 6.12

A. Asbestos Abatement Description

1. a. Is this facility fee exempt - city, town, district, municipal housing authority, owner-occupied residence of four units or less? Yes No

b. Provide blanket decal number if applicable:

Blanket Decal Number

2. Facility Location:

BRENDA PROPERTIES

a. Name of Facility

Westborough

MA

c. City/Town

d. State

163 TURNPIKE RD

b. Street Address

01876

e. Zip Code

f. Telephone Number

3. Worksite Location:

FIRST FLOOR

a. Building Name/Building Location

b. Building #

c. Wing

d. Floor

e. Room

4. Is the facility occupied? Yes No

5. Asbestos Contractor:

CLEAN AIR SERVICES INC

a. Name

MEDFORD

d. Zip Code

c. City/Town

128 FORREST ST

b. Address

6176050405

e. Telephone Number

f. DOS License Number

g. Contract Type: Written Verbal

h. Facility Contact Person

OMAR A. PINEDA

6. a. Name of On-Site Supervisor/Foreman

A1SPECTRUM

7. a. Name of Project Monitor

A1SPECTRUM

8. a. Name of Asbestos Analytical Lab

5/9/2009

9. a. Project Start Date (mm/dd/yyyy)

8-4

- c. Work hours Mon-Fri.

i. Contact Person's Title

AS040852

b. Supervisor/Foreman DOS Certification Number

NA

b. Project Monitor DOS Certification Number

NA

b. Asbestos Analytical Lab DOS Certification Number

5/11/2009

b. End Date (mm/dd/yyyy)

8-4

d. Work hours Sat-Sun.

10. a. What type of project is this?

 Demolition Renovation Repair Other, please specify:

b. Describe

11. a. Check abatement procedures:

 Glove bag Encapsulation Enclosure Disposal only Cleanup Other, specify: Full containment

b. Describe

12. Is the job being conducted: Indoors? Outdoors?





Commonwealth of Massachusetts

Asbestos Notification Form ANF-001

100088270
Decal Number

A. Asbestos Abatement Description (cont.)

13. Total amount of each type of Asbestos Containing Materials (ACM) to be removed, enclosed, or encapsulated:

0	750
a. Total pipes or ducts (linear ft)	b. Total other surfaces (square ft)
Lin. ft.	Sq. ft.
c. Boiler, breaching, duct, tank surface coatings	d. Insulating cement
Lin. ft.	Sq. ft.
e. Corrugated or layered paper pipe insulation	f. Trowel/Sprayer coatings
Lin. ft.	Sq. ft.
g. Spray-on fireproofing	h. Transite board, wall board
Lin. ft.	Sq. ft.
i. Cloths, woven fabrics	j. Other, please specify:
Lin. ft.	Sq. ft.
	VAT LIN
k. Thermal, solid core pipe insulation	i. Specify
Lin. ft.	Sq. ft.

14. Describe the decontamination system(s) to be used:

MINI CHAMBER

15. Describe the containerization/disposal methods to comply with 310 CMR 7.15 and 453 CMR 6.14(2)(g):

POLY CRITICALS NEG AIR HEPA WET TO DOUBLE BAG

16. For Emergency Asbestos Operations, the DEP and DOS officials who evaluated the emergency:

a. Name of DEP Official	b. Title
C-AW09144	
c. Date (mm/dd/yyyy) of Authorization	d. DEP Waiver #
e. Name of DOS Official	f. DOS Official Title
NA	
g. Date (mm/dd/yyyy) of Authorization	h. DOS Waiver #

17. Do prevailing wage rates as per M.G.L. c. 149, § 26, 27 or 27A-F apply to this project? Yes No

B. Facility Description

1. Current or prior use of facility:

RESIDENCE

2. Is the facility owner-occupied residential with 4 units or less? Yes No

BRENDE PROPERTIES

3. a. Facility Owner Name

c. City/Town

4. a. Name of Facility Owner's On-Site Manager

c. City/Town

d. Zip Code

d. Zip Code

- b. Address

e. Telephone Number (area code and extension)

b. On-Site Manager Address

e. Telephone Number (area code and extension)



TOWN OF WESTBOROUGH
FIRE – RESCUE – EMERGENCY – EMERGENCY MEDICAL SERVICES

Walter N. Perron, Chief
 Captains:
 Calvin A. Lawrence
 Philip M. Kittredge
 Joseph R. Lawrence
 Norman D. Beausoleil

42 MILK STREET
 WESTBOROUGH, MA 01581-1208
 TELEPHONE: (508) 366 3040
 FAX : (508) 366-0079

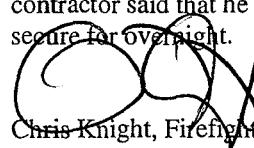
Bureau of Fire Prevention
 May 13, 2009

Subject: Tank removal permit # 2009-06
 Location: 183 Turnpike Road
 Contact: Dixon General Contracting, Rick Wojtkowski
Tank size: 2,000 gallons Last liquid held: #
2 Home heating oil.

Discussion: Dixon General Contracting came in yesterday and applied for a permit to remove a 2,000 gallon #2 home heating fuel oil tank located at 183 Turnpike Road. This was said to have been found during preparations for demolition of the house. Ken Milligan from Westborough Fire and myself, Chris Knight were called this am by Dixon Contracting and requested to the location to witness the tank removal. Upon arrival we found an excavator, Haz Mat vacuum truck, and general contractor on scene. They had unearthed the tank about ¾ of the way and had cut a hole in the top and was sucking out the oil in it. The tank was partially under the concrete foundation. There did not appear to be any discolored dirt or smell in the excavated area around the tank. There was a hole where they had cut into it to clean it and a puncture near the end of the tank which looked new and the contractor said they it was punctured while they were excavating the earth. We told them it was ok to pull the tank (we had already asked the question about the integrity of the foundation and they said it was ok to pull the tank) but to leave the excavated area around and below it without backfilling for us to look at. They were also told to leave the tank so we could look at it. At approximately 11:30am we went back and did look at the excavated area and tank. There was only 3 breeches in the tank which had all occurred during removal and cleaning and there did not appear to be any discolored or oil smelling dirt in the excavated dirt. Piping had also been removed. The excavator operator said that someone would stop by to finish the paperwork. Please refer to attached documentation including a GIS photo/diagram of the removal site.

1500hours received a call from Dixon contracting they said that they could not remove the tank from site today but would do it first thing tomorrow. They were told that they need to make the tank safe and secured for overnight.

The demolition contractor stopped in this afternoon at approximately 1515 hours and gave us copies of the hazardous waste manifest documentation. The permit was issued and he was given a copy. The demolition contractor said that he will secure the tank to the truck tonight. He was also told to make the tank safe and secure for overnight.


 Chris Knight, Firefighter/Inspector.

FD.

No.

WASTE MATERIAL PROFILE FORM

CYN
ENVIRONMENTAL
SERVICES

MAIL: 259 TURNPIKE RD. SOUTHBORO, MA 01772

Generator Name BRENDON PROPERTIES THREE
Facility Address 183 TURNPIKE RD. LLC
City/State/Zip WESTBORO, MA 01581
Technical Contact
Telephone # 508/485-3999
Facility EPA ID# MP5083667918

Date: 5/13/09
Salesperson:

Billing Address NEW ENGLAND DISPOSAL TECHNOLOGIES, INC.
83 GILMORE DRIVE
City/State/Zip SUTTON, MA 01590
Business Contact MICHAEL ROBERTSON
Telephone # (508)234-4440
(508)234-4441 Fax

Common Name of Waste #2 OIL TANK Bottoms

Process Generating Waste

CLEANING OF UNDERGROUND
STORAGE TANK

EPA Waste Code(s) MA98

DOT Shipping Name MASSACHUSETTS
STATE REGULATED OIL WASTE

Hazard Class

UN/NA No. RQ

CHEMICAL COMPOSITION (TOTALS TO 100%)

#2 Fuel oil	80-90%
WATER	10-20%
	%
	%
	%
	%
	%
	%

Physical State: Solid Liquid Sludge % Solids:

Layering: Uniform Bilayered Multilayered % H₂O:

pH: <2 2-4 4-6 6-8 8-10 10-12.5 >12.5

Flash Pt.: <60 60-100 100-140 >140 N/A

Odor: None Mild Strong Type: PETROLEUM

Color: TAN

Comments:

Container Type Bulk Liq. Roll-off T-pack Drum

Drum Size 5gal 15gal 30gal 55gal 85gal

Quantity: 300-400 GALS.

Frequency Once Year Quarter Month Week

METALS (mg/l or ppm) TCLP Total (check one)

Arsenic (D004)	<input checked="" type="checkbox"/> BRL	Selenium (D010)	<input type="checkbox"/>
Barium (D005)	<input type="checkbox"/>	Silver (D011)	<input type="checkbox"/>
Cadmium (D006)	<input type="checkbox"/>	Copper	<input type="checkbox"/>
Chromium (D007)	<input type="checkbox"/>	Nickel	<input type="checkbox"/>
Lead (D008)	<input type="checkbox"/>	Zinc	<input type="checkbox"/>
Mercury (D009)	<input type="checkbox"/>	Thallium	<input type="checkbox"/>
Other	<input type="checkbox"/>		<input checked="" type="checkbox"/> BRL

ORGANICS (mg/l or ppm) TCLP

Benzene (D018)	<input checked="" type="checkbox"/> BRL
Carbon Tetrachloride (D019)	<input type="checkbox"/>
Chlordane (D020)	<input type="checkbox"/>
Chlorobenzene (D021)	<input type="checkbox"/>
Chloroform (D022)	<input type="checkbox"/>
o-Cresol (D023)	<input type="checkbox"/>
m-Cresol (D024)	<input type="checkbox"/>
p-Cresol (D025)	<input type="checkbox"/>
Cresol (D026)	<input type="checkbox"/>
2,4-D (D016)	<input type="checkbox"/>

1,4-Dichlorobenzene (D027)	<input type="checkbox"/> BRL
1,2-Dichloroethane (D028)	<input type="checkbox"/>
1,1-Dichloroethylene (D029)	<input type="checkbox"/>
2,4-Dinitrotoluene (D030)	<input type="checkbox"/>
Endrin (D012)	<input type="checkbox"/>
Heptachlor (D031)	<input type="checkbox"/>
Hexachlorobenzene (D032)	<input type="checkbox"/>
Hexachlorobutadiene (D033)	<input type="checkbox"/>
Hexachloroethane (D034)	<input type="checkbox"/>
Lindane (D013)	<input type="checkbox"/>
Methoxychlor (D014)	<input type="checkbox"/>

Methyl Ethyl Ketone (D035)	<input type="checkbox"/> BRL
Nitrobenzene (D036)	<input type="checkbox"/>
Pentachlorophenol (D037)	<input type="checkbox"/>
Pyridine (D038)	<input type="checkbox"/>
Tetrachloroethylene (D039)	<input type="checkbox"/>
Toxaphene (D015)	<input type="checkbox"/>
Trichloroethylene (D040)	<input type="checkbox"/>
2,4,5-Trichlorophenol (D041)	<input type="checkbox"/>
2,4,6-Trichlorophenol (D042)	<input type="checkbox"/>
2,4,5-TP (Silvex) (D017)	<input type="checkbox"/>
Vinyl Chloride (D043)	<input type="checkbox"/>

OTHER COMPONENTS AND HAZARDOUS CHARACTERISTICS

PCB's	<input checked="" type="checkbox"/> No	<input type="checkbox"/> Yes	ppm
Cyanides	<input checked="" type="checkbox"/> No	<input type="checkbox"/> Yes	ppm
Sulfides	<input checked="" type="checkbox"/> No	<input type="checkbox"/> Yes	ppm
Reactives	<input checked="" type="checkbox"/> No	<input type="checkbox"/> Yes	ppm

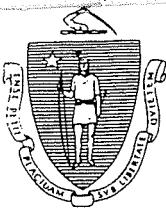
Pesticides	<input checked="" type="checkbox"/> No	<input type="checkbox"/> Yes	ppm
Phenolics	<input checked="" type="checkbox"/> No	<input type="checkbox"/> Yes	ppm
Dioxins	<input checked="" type="checkbox"/> No	<input type="checkbox"/> Yes	ppm
Radioactives	<input checked="" type="checkbox"/> No	<input type="checkbox"/> Yes	ppm

I hereby certify that the submitted information is true, accurate, and complete to the best of my knowledge and that all known and suspected hazards have been disclosed. I further authorize Cyn Environmental Services to transmit the above information to regulatory or TSD facilities as required for approvals.

Date _____ By _____ Name (Please Print) _____ Title (Duly Authorized) _____ Signature _____

Wednesday, May 13, 2009 *****

- Dennis, National Fire, Testing at numbers 4 & 8 Tech Drive. Central Station off line (774-275-0532) (Capt. Beausoleil)
- 06:26 2 Tech Drive off line for demo/construction. John 508-733-4903 (Capt. Beausoleil)
- 06:27 Jack, Nappa Elec., has Genzyme, 3400 Computer Drive, alarms off line for testing
- 06:27 - Sprinkler and 1st floor pulls/smokes (781-552-9415) (Capt. Beausoleil)
- 06:52 Astra buuildings 1 & 3 off line (Capt. Beausoleil)
- 07:00 EMC, 440 Computer Drive, Data Center Smokes off line. Simon 508-898-5010
- 07:00 (Capt. Beausoleil)
- 07:30 Oldham Road project has 4 - 5 crews doing driveways. All passable. (Capt.
- 07:30 Beausoleil)
- 07:59 Group 4 off duty. (Capt. Beausoleil)
- 08:35 CK and KM to 183 Turnpike Road at the request of Dixon Contracting to witness a tank removal. A permit had already been applied for previously, permit# 2009-06.
- 08:35 This was a 2,000 gallon home heating oil tank. The tank was found during
- 08:35 preparations to demolish the house. We arrived to find the excavator, general
- 08:35 contractor, and hazmat suction trucks all on scene working to unearth the tank.
- 08:35 The tank was about 3/4 excavated. The tank sat partially into the concrete wall on
- 08:35 the Woodman Avenue side of the house to the right of the garage. There did not
- 08:35 appear to by any dark soil or evidence of leakage. Dixon was authorized to pull the
- 08:35 tank and told we would have to look at the tank and hole prior to the hole being
- 08:35 filled back in. CK (Shift 3)
- 11:30 CK and KM went back to 183 Turnpike Road to look at the site excavation where
- 11:30 the 2,000 gallon tank was removed and to look at the tank. There did not appear to
- 11:30 be any darker soil or smell from the excavated area. The tank had been removed
- 11:30 to another site on the same property. There were 3 holes noted on the tank but
- 11:30 they were all new and created when pulling and or cleaning the tank. The
- 11:30 remaining tank appeared intact. The excavator operator said that someone would
- 11:30 follow up with the paperwork.CK (HQ Shift 3)
- 13:52 1300 - 1345 CSS installation X 2.
- 13:52 JW (HQ Shift 2)



Commonwealth of Massachusetts

Department of Fire Services - Office of the State Fire Marshal

Money order
CK # 029326c**APPLICATION and PERMIT**Fee: 20.00

for storage tank removal and transportation to approved tank disposal yard in accordance with the provisions of M.G.L. Chapter 148, Section 38A, 527 CMR 9.00, application is hereby made by:

Tank Owner 503842 3922

Tank Owner Name (please print) Brendan Development X _____
 Signature (if applying for permit)

Address 183 Turnpike Rd.
Street Westboro
City MA
State 01585
Zip

Removal Contractor**Contamination Assessment**Company Name Dixie, Inc.Co. or Individual _____
PrintAddress 697 Hartford Tpke, Shrewsbury
PrintAddress _____
Print

Signature (if applying for permit)

Signature (if applying for permit)

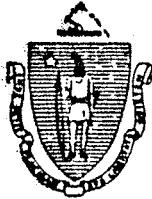
 IFCI* Certified

Other _____

 IFCI* Certified LSP # _____ Other _____**Tank Information**Tank Location 183 Turnpike Rd. Street Address Westboro City MATank Capacity (gallons) 2,600 Substance Last Stored #2 fuel oilTank Dimensions (diameter x length) 64"Remarks: ~ 300-400 gallons removed* Must have tank secured and "safe" overnight**Disposal Information**Firm transporting waste New England Disposal Tech State Lic. # 427Hazardous waste manifest# 005657285JK E.P.A. # MAC 300068059Approved tank disposal yard James G. Grant Tank yard # #8Type of inert gas Dry Ice Tank yard address 28 Walcott St., Readville, MA**Approvals**City or Town WESTBOROUGH FDID# 27328 Permit# 2009-06Date of issue 5/13/09 Date of expiration 5/13/09 1800 hrs.Dig safe approval number: 20091402800 Extended until 5/14/09 1800 hrs. CRSignature / Title of Officer granting permit CJG Dig Safe Toll Free Tel. Number - 800-322-4844FP 71NSP 5/13/09

After removal(s) ("Consumptive Use" fuel oil tanks exempted) send Form FP-290R signed by Local Fire Dept. to UST Regulatory Compliance Unit, Department of Fire Services, P.O. Box 1025, State Road, Stow, MA 01775.

F.D.



The Commonwealth of Massachusetts

Department of Public Safety—Division of Fire Prevention

APPLICATION FOR PERMIT FOR REMOVAL AND TRANSPORTATION TO APPROVED TANK YARD

10/23 1987

To: HEAD OF FIRE DEPARTMENT
WESTBOROUGH
City or Town

C.82 S.40 M.G.L.

DIG SAFE NUMBER
<u>87431322</u>
Start Date <u>10/23/87</u>

In accordance with the provisions of Chapter 148, G.L. as provided in
Section 38A Application is hereby made by

Zocco Inc
(Name of Person, Firm or Corporation)
347 W MAIN ST
NORTHBOROUGH MA

Address

For permission to remove and transport underground steel storage tank(s) from
183 TURNPIKE RD
WESTBOROUGH MA
Street address (city or town)

FDID# 27328 to approved Tank Yard# 14901 1-5000

State clearly type of
inert gas used in
steel storage tank

Ory Tie
Type of inert gas used

Name of Person, Firm, Corporation disposing tank Zocco Inc

Date issued - Oct 23 1987

By: John P. Lee

Date of expiration Nov 5 1987

Signature of Applicant

820.00



The Commonwealth of Massachusetts

DEPARTMENT OF PUBLIC SAFETY—DIVISION OF FIRE PREVENTION

PERMIT

FOR REMOVAL AND TRANSPORTATION TO APPROVED TANK YARD

In accordance with the provisions of Chapter 148, G.L. as provided in
Section 38A this permit is granted to

Name: Zocco Inc

Full name of person, firm or Corporation

To transport underground steel storage tank(s)

to Approved tank yard# 14901

10/23 1987

C.82 S.40 M.G.L.

DIG SAFE NUMBER
<u>87431322</u>
Start Date <u>10/23/87</u>

State clearly type of
inert gas used in
steel storage tank

steel tank: Ory Tie Co

method

Name and address of contractor

disposing tank Zocco Inc

Location to which tank will

be transported JC TOMBARILLE

MARSTON ST

LAWRENCE, MA 14901

Approved tank yard#

James Parker Jr.

Signature of official granting permit (TITLE)
(Head of Fire Dept.)

This permit will expire Nov 5 1987

ZECCO, INC.
345 WEST MAIN ST.
NORTHBORO, MA 01532

REMITTANCE ADVICE

VENDOR NO.

DETACH BEFORE DEPOSITING

VENDOR NAME

TRANSACTION DATE	REFERENCE	GROSS AMOUNT	DISCOUNTS/RETENTIONS	NET AMOUNT
	Tank Removal Permit Green Thumb Rte 9 Westboro, Ma. 501			
CHECK DATE	CHECK NO.	TOTAL GROSS	TOTAL DEDUCTIONS	CHECK AMOUNT

F.P. 292



The Commonwealth of Massachusetts

Department of Public Safety—Division of Fire Prevention

APPLICATION FOR PERMIT FOR REMOVAL AND TRANSPORTATION TO APPROVED TANK YARD

10/23/87
Date

C.82 S.40 M.G.L.

DIG SAFE NUMBER

87431322Start Date 10/23/87To: HEAD OF FIRE DEPARTMENT
WESTBOROUGH
City or TownIn accordance with the provisions of Chapter 148, G.L. as provided in
Section 38A Application is hereby made by Zecco Inc

(Name of Person, Firm or Corporation)

345 W MAIN STNORTHBORO MA

Address

For permission to remove and transport underground steel storage tank(s) from

183 TURNPIKE RDWESTBORO MA

Street address (city or town)

FDID# 27328 to approved Tank Yard# 14901 1-50001-1200State clearly type of
inert gas used in
steel storage tankDry Ice
Type of inert gas usedName of Person, Firm, Corporation disposing tank Zecco IncDate issued - Oct 23 1987 By: John P. Lee
Date of expiration Nov 5 1988 Paid/due Signature of ApplicantCost \$820.00 + check # 2110

F.D.



FIRE DEPARTMENT

Town of Westborough

MASSACHUSETTS 01581

FUEL STORAGE

ADDRESS: 183 TURNPIKE ROAD

NAME: ROBERT MC GOLDRICK (GREEN THUMB)

DATE OF ISSUE: 11-18-76

AMOUNT: 4000 GALLONS

TYPE OF FUEL: FUEL OIL

LOCATION: UNDERGROUND

USE: HEATING

PERMIT XX; LICENSE _____; EXPIRES: ANNUALLY _____;

VALID UNTIL REVOKED OR ABANDONED XX; OTHER _____;

RENEWED _____ EXPIRES _____

RENEWED _____ EXPIRES _____

RENEWED _____ EXPIRES _____

NOTES:

11-18-77 Removed an existing 1000 gallon tank and replaced it with this 4000 gal. tank.

2-9-55 Issued a permit for 200 gal. gasoline (underground)

PROPERTY OWNER

BRENDON PROPERTIES

BUILDING PERMIT NO.....

DEMO ONLY
TOWN OF WESTBOROUGH

APPLICATION FOR PERMIT TO BUILD INSTRUCTIONS

183 TURNPIKE RD

The applicant must contact the Town Departments listed below regarding the following:

DEPARTMENT	SUBJECT/APPROVAL	DATE	INITIALS
Assessors	Street No Assignment 183 TURNPIKE	5-14-09	
Assessors	Map and Parcel 33-13-A	5-14-09	
Tax Collector	Paid taxes.....	5-14-09	KR
Conservation Com.	Wetlands Filing and requirements.....		
D.P.W.	Subdivision requirements N/A	PCIT	5/12/09
D.P.W.	Water Connection Permit # W2009-13 DISCONNECTED	FCID	5/12/09
D.P.W.	Sewer Connection Permit # NO.TOWN.SEWER	PCIT	5/12/09
D.P.W.	Water Meter Installation METER STOLEN	PCIT	5/12/09
D.P.W.	Driveway / Curb Cut/and requirements NOT RECEIVED BY DPW	PCIT	5/12/09
— Health Department	Septic/Food Permits/Flood Plain/and requirements...	5-27-09	DR. HRC.
— Fire Department	Detection System/Oil Burner/and requirements...	5/27/09	CD
Planning Board	Lot Release/or ANR/and requirements.....		
— Historical Com.	Demolition of a structure built before 1950.....		

BUILDING PERMIT APPLICATION INSTRUCTIONS

1. Site Plan must be drawn to scale.
2. Show all lot dimensions and area.
3. Show dimensions of all existing and proposed structures on the lot. Include all decks and porches.
4. Existing and proposed structures shall be distinguished by contrasting colors, or crosshatching existing structures.
5. Show front, rear, and side yard setback dimensions.
6. Show width of street right of way indicating whether it is public or private.
7. Note any zoning district lines within 100 feet of property.
8. Site plans shall be submitted in duplicate.
9. Floor plans, foundation plans and framing sections are required for all new construction (2 sets of plans).
10. Fee is required with application.

NO CONSTRUCTION ALLOWED PRIOR TO PROCUREMENT OF A BUILDING PERMIT

INSPECTIONS REQUIRED

1. Site and excavation inspection.
2. Foundation and footing – prior to commencing superstructure and prior to backfill.
3. Rough framing before insulation, after plumbing and electrical inspections have been endorsed on permit. All fire stopping and firewalls must be in place.
4. Notify Building Official for final inspection after endorsement of final Wiring, Plumbing, Gas, Board of Health, Fire Department, DPW water meter, and DPW requirements on field card. Bring field card to office and obtain written occupancy.

REQUEST FOR INSPECTIONS MUST BE MADE 24 HOURS IN ADVANCE BY CALLING THE BUILDING DEPARTMENT AT 508-366-3015.

APPENDIX C

ASTM E1527-05 User Questionnaire

Site Address: 183 Turnpike Road, Westborough MA.

The Small Business Liability Relief and Brownfield Revitalization Act of 2001 requires that the user provide certain information to the environmental professional in order to qualify for one or more of the Landowner Limited Protections. ECS asked _____ the following questions to address these requirements:

Question #1: Are you aware of any environmental cleanup liens that are filed against the site?

Response to Question #1:

NO

Question #2: Are you aware of any activity or land use restrictions, such as engineering controls, land use restrictions or institutional controls that are in place at the site and/or have been filed or recorded in a registry under federal, tribal, state or local law?

Response to Question #2:

NO

Question #3: As the user of the environmental site assessment, do you have any specialized knowledge or experience related to the property or nearby properties? For example, are you involved in the same line of business as the current or former occupants of the site or any adjoining property so that you would have specialized knowledge of the chemicals and processes used by this type of operation?

Response to Question #3:

NO

Question #4: Does the purchase price being paid for the site reasonably reflect the fair market value of the site? If you conclude that there is a difference, have you considered whether the lower purchase price is because contamination is known or believed to be present at the site?

Response to Question #4:

The price reflects the current status of the economy.

Question #5: Are you aware of commonly known or reasonably ascertainable information about the site that would help the environmental professional identify conditions indicative of releases or threatened releases? For example, as the user,

- a) **Do you know the past uses of the site?**

Response to Question 5a: See attached

- b) Do you know of specific chemicals that are present or once were present on the site?**

Response to Question 5b: Typical gardening supplies.

- c) Do you know of spills or other chemical releases that have taken place on the site?**

Response to Question 5c: See attached

- d) Do you know of any environmental cleanups that have occurred on-site?**

Response to Question 5d: See attached

Reason for Performing the Phase I Assessment: Sale of property

**User Questionnaire Completed By: Allen Hight-Director of Real Estate
Name and Title**

Date: January 26, 2010

APPENDIX D



HISTORICAL FIRE INSURANCE MAPS

NO MAPS AVAILABLE

1/15/2010

05-213212

**183 TURNPIKE ROAD
WESTBOROUGH, MA 01581**

A search of FirstSearch Technology Corporation's proprietary database of historical fire insurance map availability confirmed that there are NO MAPS AVAILABLE for the Subject Location as shown above.

FirstSearch Technology Corporation's proprietary database of historical fire insurance map availability represents abstracted information from the Sanborn® Map Company LLC obtained through online access to the Library of Congress as well as the result of a review of the other fire insurance map microfilm collections available via various local libraries.

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FirstSearch Technology Corporation

*10 Cottage Street, Norwood, MA 02062
Tel: 781-551-0470 Fax: 781-551-0471*

APPENDIX E

CITY DIRECTORY REVIEW

Report Date: January 20, 2010
 Client Job Number: 05-213212
 FirstSearch Index Number: 219919
 Site Address(es): 183 Turnpike Road
 Westborough, MA 01581

A search was conducted for the subject area noted above to identify any Historical City Directory coverage/tenant information maintained at national repositories, local city/town libraries and/or various public sources.

The following information is the result of the search:

YEAR / SOURCE	CLOSEST LOWER ADDRESS LISTINGS	SUBJECT ADDRESS(ES)	CLOSEST UPPER ADDRESS LISTINGS
2007/Cole Directory	178 Turnpike Road Suburban Fire Protection 180 Turnpike Road Aldorsio Laurene Academy Dance Dukane Metrowest Martial Arts & Welln 182 Turnpike Road Belden Cdt Inc Concord Hill Development LLC Conover & Co Communications In Executel Communications Inc Female Leadership Interest Cou Flanagan Insurance Agency Massmirror Inc Penta Communications Sager & Schaffer Solveit Inc Topaz Corp Venturi Staffing Partners	Occupant Unknown	185 Turnpike Road Residential Listing 187 Turnpike Road Green Thumb Garden Center Green Thumb Inc 190 Turnpike Road Northland Engineered Products 196 Turnpike Road Carriage House Kitchens Decks Plus Outdoor Accents Inc
2004/Cole Directory	170 Turnpike Road Residential Listing 178 Turnpike Road A1 II Shim Taekwondo Inc Progressive Search Assocs Sonitrol Of Central Mschst Cor Sonitrol Security Stone Temple Consulting Corp 180 Turnpike Road Bel Power Products Inc Dukane Corp McCarthy Industries	Occupant Unknown	187 Turnpike Road Greenthumb 190 Turnpike Road Epi Inc Northland Engineered Products 196 Turnpike Road Carriage House Decks Plus Occupant Unknown 198 Turnpike Road Occupant Unknown

Continued on next page

CONTINUED

2004/Cole Directory (Continued)	182 Turnpike Road David Kurla & Assocs Inc Flanagan Susan C Insrnc Agncy Integrity Technical Services Objective Management Group Inc Ocean Front Realty Inc Paine Consulting Sager & Sager Atty At Law Tuv Rheinland Of North America		
1999/Polk Directory	165 Turnpike Road Wayside Service Center auto rpr Multiple Residential Listings 178 Turnpike Road Suburban Fire Protection plumb- htg-ac 180 Turnpike Road Associated Credit Services adjsmnt clctn svc McCarthy Industries apmnt bldg oprtrs S B Linen Warehouse Outlet misc hmfrnshngs str 182 Turnpike Road Hospital Rentals of America medical eqpt rental Totally Mobile misc rtl str	Residential Listing	187 Turnpike Road Green Thumb ornmntl nurs prdcts 190 Turnpike Road Engineering Plastics vlv ppe fttngs 196 Turnpike Road Carriage House Kitchens spcl trd cntrs 198 Turnpike Road Residential Listing
1997/Polk Directory	165 Turnpike Road Door To Door VCR Repair Svc Wayside Mobile Home Park Wayside Service Ctr Multiple Residential Listings 178 Turnpike Road Forever Green Landscape Mgmt Massachusetts Gymnastics Suburban Fire Protection 180 Turnpike Road Application Development Trends Boston Bay Traders Linen Warehouse Outlet 182 Turnpike Road Beers Associates Inc Hospital Rentals of America Nexar Technologies	Residential Listing	187 Turnpike Road Green Thumb 190 Turnpike Road Engineering Plastics Inc Northland Engineered Products 196 Turnpike Road Carriage House Kitchens 198 Turnpike Road Residential Listing
1992/Cole Directory	160 Turnpike Road Honolulu Restaurant 161 Turnpike Road All Rolls Royce Limousines Goodall Enterprises Goodall's Auto Sound & Communication Million Mile Muffler Rolls Rental Sir Tux Bridal Boutique	Green Thumb Retail McGoldrick Robt P	190 Turnpike Road Epi 198 Turnpike Road Multiple Residential Listings 200 Turnpike Road Residential Listing 204 Turnpike Road Angels In The Attic Coffman H

Continued on next page

CONTINUED

1992/Cole Directory (Continued)	165 Turnpike Road Multiple Residential Listings Door To Door VCR Repair Service Wayside Service Center 180 Turnpike Road Boston Bay Traders Computer Point Corp Lafe Computer Linen Warehouse Outlet McCarthy International Venturing Worldwide		
1968/Polk Directory	102 Turnpike Road Kaprelian Turkey Farm 104 Turnpike Road Bonfire Lounge The cocktail lounge 105 Turnpike Road Vacant Otis Street Intersects 106 Turnpike Road Residential Listing	Not Listed	No Higher Listings
1966/Polk Directory	(No Address Numbers) Turnpike Road Kaprelian Turkey Farm Bonfire Lounge The Residential Listing Residential Listing Otis Street Intersects Residential Listing	Not Listed	No Higher Listings

Notes: No further coverage available

GLOSSARY OF TERMS

“No Listing/Not Listed” - address not listed in the directory

“Vacant” or “No Current Listing” - status of address in directory

“Residential Listing” - one residential listing located at address

“Multiple Residential Listings” - more than one residential listing located at address

“Multiple Retail Listings” - more than one retail facility located at address

“Multiple Business Listings” - more than one business listing at address

“Multiple Government Offices” - more than one federal listing at an address

“Multiple Municipal Listings” - more than one municipal listing at an address

“Multiple Military Listings” - more than one military listing at an address

“Street Not Listed” - street not listed in directory

When multiple tenants/facilities are observed for one address, the information may be summarized as shown in the following examples:

- An apartment building will be represented by “Multiple Residential Listings”
- A retail shopping center will be represented by “Multiple Retail Listings” followed by a separate listing of sites, if present, which may contain the use of regulated/chemical/hazardous materials such as dry cleaners, photo finishers, hair salons, auto repair shops, etc.
- An office building consisting of attorneys, insurance, firms, or other facilities which do not indicate the use of regulated/chemical/hazardous materials will be represented by “Multiple Business Listings”

Residential addresses, including individual houses and apartment buildings, are listed as residential. Names of tenants can be provided if needed.

Unless otherwise noted, the subject address(es) plus four adjacent addresses up from the subject property and four addresses down from the subject property are included in the report, if available.

Although great care has been taken by FirstSearch Technology Corporation in compiling and verifying the information contained in this report to insure that it is accurate, FirstSearch Technology Corporation disclaims any and all liability for any errors, omissions, or inaccuracies in such information and data.

APPENDIX F



Mapped, edited, and published by the Geological Survey

Control by USGS, USC&GS, and Mass. Geodetic Survey

Topography by plane-table surveys 1941. Revised 1953

Polyconic projection. 1927 North American datum
10,000-foot grid based on Massachusetts (Mainland)
coordinate system

Red tint indicates area in which only
landmark buildings are shown

APPROXIMATE MEAN
DECLINATION, 1953

1 1000 0 1000 2000 3000 4000 5000 6000 7000

1 5 0 1 KILOMETERS

CONTOUR INTERVAL 10 FEET

DATUM IS MEAN SEA LEVEL

THIS MAP COMPLIES WITH NATIONAL MAP ACCURACY STANDARDS
FOR SALE BY U. S. GEOLOGICAL SURVEY, WASHINGTON 25, D. C.
A FOLDER DESCRIBING TOPOGRAPHIC MAPS AND SYMBOLS IS AVAILABLE ON REQUEST





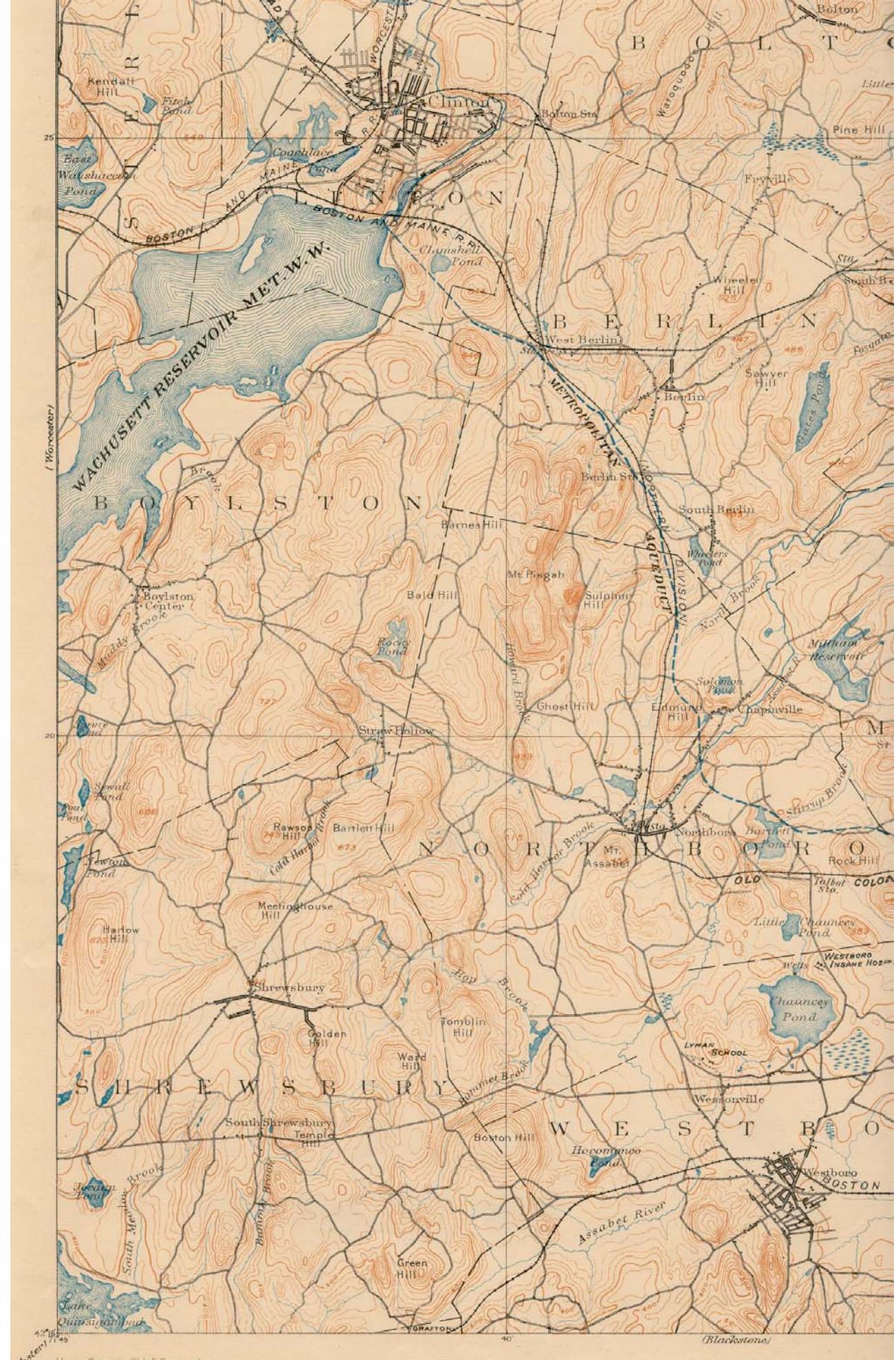
Henry Gannett, Chief Geographer.
Marcus Baker, Geographer in charge.
Triangulation by R. U. Goode.
Topography by R. D. Cummin,
under direction of W. D. Johnson.

Surveyed in 1886-87 in cooperation with the state of Massachusetts

Scale 1:62,500

1 2 3 4
1 2 3 4
Contour interval 20 feet

Datum is mean sea level



Henry Gannett, Chief Geographer.
Marcus Baker, Geographer in charge.
Triangulation by R. D. Goode.
Topography by R. D. Cummin,
under direction of W. D. Johnson,

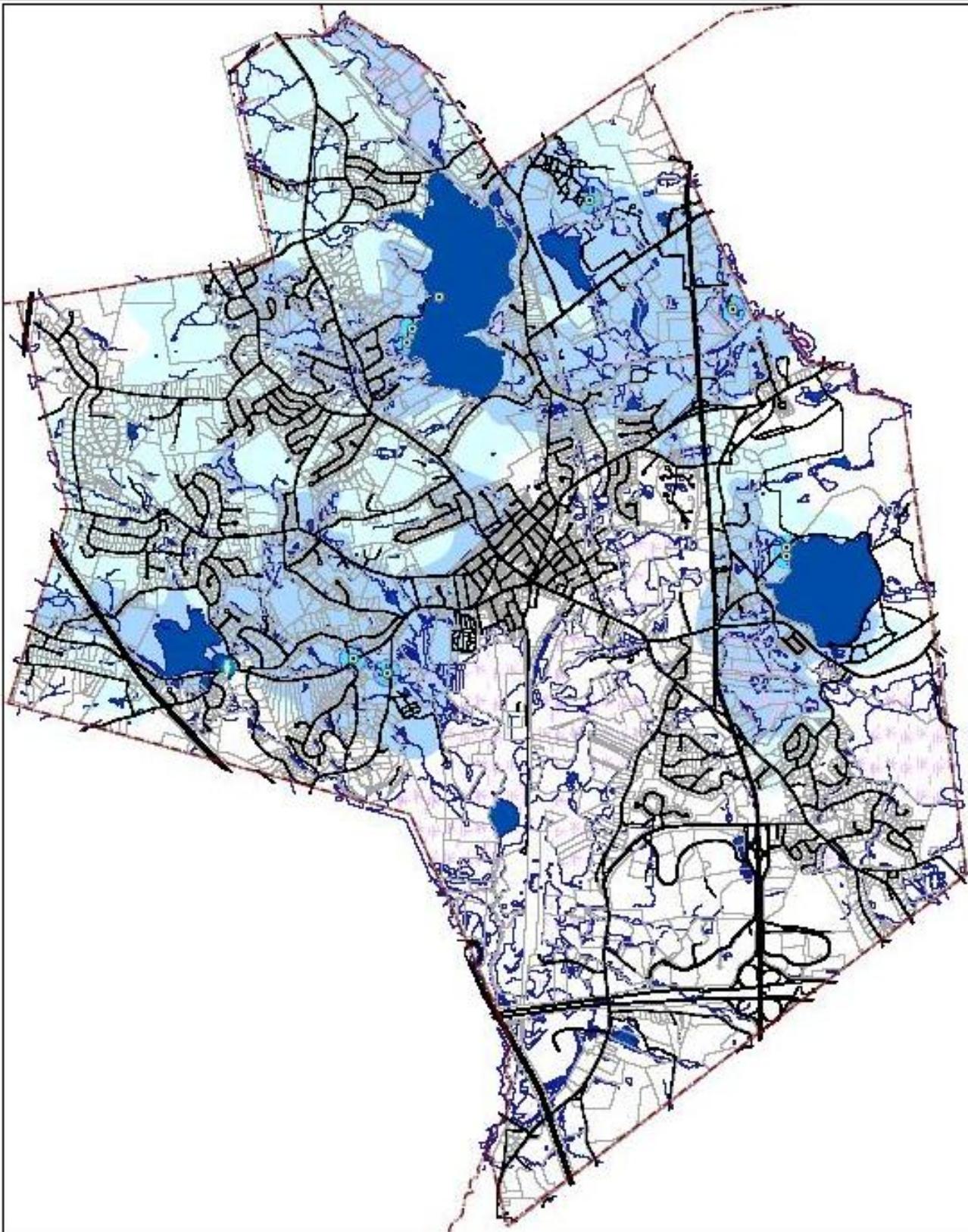
Surveyed in 1886-87 in cooperation with the state of Massachusetts.

Scale 1:62,500
Contour Interval 20 feet.

Datum is mean sea level.



Aquifer and Watershed Protection Districts Town of Westborough Massachusetts



Aquifers

- Zone I** 400 foot protective radius
- Zone II** direct recharge area
- Zone III** contributing recharge area

Public Water Supply Sources

- Municipal Well
- Surface Water

Town Lines

Parcels

Roads

Stream & Shoreline

Surface Water

Pond/Lake/River

Wetland



0 0.5 1 Miles

Scale 1:24,000

APPENDIX G

FirstSearch Technology Corporation

Environmental FirstSearch™ Report

Target Property:

183 TURNPIKE ROAD

WESTBOROUGH MA 01581

Job Number: 05-213212

PREPARED FOR:

ECS

10 State Street

Woburn, MA 01801

01-14-10



Tel: (781) 551-0470

Fax: (781) 551-0471

***Environmental FirstSearch
Search Summary Report***

Target Site: 183 TURNPIKE ROAD
WESTBOROUGH MA 01581

FirstSearch Summary

Database	Sel	Updated	Radius	Site	1/8	1/4	1/2	1/2>	ZIP	TOTALS
NPL	Y	11-11-09	1.00	0	0	0	0	0	0	0
NPL Delisted	Y	11-11-09	0.50	0	0	0	0	-	0	0
CERCLIS	Y	12-01-09	0.50	0	0	0	0	-	0	0
NFRAP	Y	12-01-09	0.50	0	0	0	0	-	0	0
RCRA COR ACT	Y	10-14-09	1.00	0	0	0	0	0	0	0
RCRA TSD	Y	10-14-09	0.50	0	0	0	0	-	0	0
RCRA GEN	Y	10-14-09	0.25	0	1	1	-	-	1	3
Federal IC / EC	Y	10-01-09	0.25	0	0	0	-	-	0	0
ERNS	Y	12-10-09	0.12	0	0	-	-	-	11	11
Tribal Lands	Y	12-01-05	1.00	0	0	0	0	0	1	1
State/Tribal Sites	Y	12-15-09	1.00	0	0	1	0	15	3	19
State Spills 90	Y	12-15-09	0.12	0	0	-	-	-	39	39
State/Tribal SWL	Y	04-01-09	0.50	0	0	0	0	-	3	3
State/Tribal LUST	Y	12-15-09	0.50	0	0	0	0	-	0	0
State/Tribal UST/AST	Y	12-11-09	0.25	0	0	0	-	-	1	1
State/Tribal EC	Y	NA	0.25	0	0	0	-	-	0	0
State/Tribal IC	Y	12-15-09	0.25	0	0	0	-	-	0	0
State/Tribal VCP	Y	NA	0.50	0	0	0	0	-	0	0
State/Tribal Brownfields	Y	NA	0.50	0	0	0	0	-	0	0
State Other	Y	01-01-07	0.25	0	0	0	-	-	0	0
FI Map Coverage	Y	12-10-09	0.12	0	0	-	-	-	0	0
- TOTALS -				0	1	2	0	15	59	77

Notice of Disclaimer

Due to the limitations, constraints, inaccuracies and incompleteness of government information and computer mapping data currently available to FirstSearch Technology Corp., certain conventions have been utilized in preparing the locations of all federal, state and local agency sites residing in FirstSearch Technology Corp.'s databases. All EPA NPL and state landfill sites are depicted by a rectangle approximating their location and size. The boundaries of the rectangles represent the eastern and western most longitudes; the northern and southern most latitudes. As such, the mapped areas may exceed the actual areas and do not represent the actual boundaries of these properties. All other sites are depicted by a point representing their approximate address location and make no attempt to represent the actual areas of the associated property. Actual boundaries and locations of individual properties can be found in the files residing at the agency responsible for such information.

Waiver of Liability

Although FirstSearch Technology Corp. uses its best efforts to research the actual location of each site, FirstSearch Technology Corp. does not and can not warrant the accuracy of these sites with regard to exact location and size. All authorized users of FirstSearch Technology Corp.'s services proceeding are signifying an understanding of FirstSearch Technology Corp.'s searching and mapping conventions, and agree to waive any and all liability claims associated with search and map results showing incomplete and or inaccurate site locations.

Environmental FirstSearch
Site Information Report

Request Date: 01-14-10
Requestor Name: Cinthya
Standard: ASTM-05

Search Type: COORD
Job Number: 05-213212

Target Site: 183 TURNPIKE ROAD
WESTBOROUGH MA 01581

Demographics

Sites: 77	Non-Geocoded: 59	Population: 3174
Radon: 5 - 16.8 PCI/L		

Site Location

	<u>Degrees (Decimal)</u>	<u>Degrees (Min/Sec)</u>	<u>UTMs</u>
Longitude:	-71.6203	-71:37:13	Easting: 283949.453
Latitude:	42.28462	42:17:5	Northing: 4684489.196
Elevation:	325		Zone: 19

Comment

Comment:

Additional Requests/Services

Adjacent ZIP Codes: 0 Mile(s)

Services:

ZIP Code	City Name	ST	Dist/Dir	Sel

	Requested?	Date
Fire Insurance Maps	Yes	01-14-10
Aerial Photographs	No	
Historical Topos	No	
City Directories	Yes	01-14-10
Title Search/Env Liens	No	
Municipal Reports	No	
Online Topos	No	

Environmental FirstSearch
Sites Summary Report

Target Property: 183 TURNPIKE ROAD
WESTBOROUGH MA 01581

JOB: 05-213212

TOTAL: 77 **GEOCODED:** 18 **NON GEOCODED:** 59 **SELECTED:** 0

Map ID	DB Type	Site Name/ID/Status	Address	Dist/Dir	ElevDiff	Page No.
1	RCRAGN	CURRY PRINTING and COPY CENTER MAD019500164/VGN	190 TURNPIKE RD WESTBOROUGH MA 01581	0.09 SW	+ 11	1
2	RCRAGN	NORTH STAR YOUTH FORUM MV5083661562/SQG-MA	15 BRIDLE LN WESTBOROUGH MA 01581	0.14 NW	- 18	3
3	STATE	TURNPIKE PARK COOPERATIVE 2-0017202/TIER1C	165 TURNPIKE PARK WESTBOROUGH MA 01581	0.20 NE	- 40	4
4	STATE	MOBIL STATION 06 E5F 2-0000885/TIER1C	42 LYMAN ST WESTBOROUGH MA 01581	0.60 NE	- 31	6
4	STATE	MOBIL STATION 2-0012762/TIER1C	42 LYMAN ST WESTBOROUGH MA 01581	0.60 NE	- 31	9
5	STATE	SHELL STATION 2-0000733/REMOPS	128 TURNPIKE RD WESTBOROUGH MA 01581	0.64 NE	- 29	12
6	STATE	CORRUGATED PAPER CO 2-0000151/RAO	111 MILK ST WESTBOROUGH MA 01581	0.76 SW	- 13	15
6	STATE	CORRUGATED PAPER CO 2-0011308/RAONR	111 MILK ST WESTBOROUGH MA 01581	0.76 SW	- 13	18
7	STATE	RTE 9 2-0011284/RAO	233 TNPK RD WESTBOROUGH MA 01581	0.77 SW	- 51	20
8	STATE	TEXACO STATION 2-0014952/TIER1C	240 TURNPIKE RD WESTBOROUGH MA 01581	0.84 SW	- 48	23
8	STATE	DEBLOIS OIL 2-0000865/TIER1C	240 TURNPIKE RD WESTBOROUGH MA 01581	0.84 SW	- 48	25
9	STATE	NORTHBOROUGH OIL CO 2-0015496/TIERII	3 BAYLOR AVE WESTBOROUGH MA 01581	0.87 NE	- 33	27
10	STATE	FIBA TECHNOLOGIES 2-0013978/TIER1C	97 TURNPIKE RD WESTBOROUGH MA 01581	0.88 NE	- 41	29
11	STATE	MALDONADO RESIDENCE 2-0015782/TIERII	15 SHEPHERD RD WESTBOROUGH MA 01581	0.88 SE	- 34	31
12	STATE	SUNSHINE CLEANERS 2-0000878/RAO	45 E MAIN ST WESTBOROUGH MA 01581	0.91 SE	- 43	34
13	STATE	EXXON STATION FMR 2-0000850/REMOPS	42 E MAIN ST WESTBOROUGH MA 01581	0.95 SE	- 26	37
14	STATE	NYNEX FACILITY 2-0010895/RAO	25 SUMMER ST WESTBOROUGH MA 01581	0.97 SE	- 10	40
15	STATE	FORMER VEE ARC BUILDING 2-0016312/TIERII	50 MILK ST WESTBOROUGH MA 01581	1.00 SE	- 16	42

Environmental FirstSearch
Sites Summary Report

Target Property: 183 TURNPIKE ROAD
WESTBOROUGH MA 01581

JOB: 05-213212

TOTAL: 77 **GEOCODED:** 18 **NON GEOCODED:** 59 **SELECTED:** 0

Map ID	DB Type	Site Name/ID/Status	Address	Dist/Dir	ElevDiff	Page No.
ERNS		NRC-829841/RAILROAD NON-RELEASE	MILEPOST 2B 31.99 WESTBOROUGH MA 01581	NON GC	N/A	N/A
STATE		MA DEPT MENTAL HEALTH 2-0016896/TIER1D	LYMAN ST WESTBOROUGH MA 01581	NON GC	N/A	N/A
STATE		MA TPK W EXIT 6A 2-0013588/RAO	MA TPKE WESTBOROUGH MA 01581	NON GC	N/A	N/A
STATE		SOUTH OF 189 2-0013381/RAO	RUGGLES ST WESTBOROUGH MA 01581	NON GC	N/A	N/A
SPILLS		A-C MOTOR EXPRESS C93-0002/CLOSED	MASS PIKE, MILE MARKER 103E WESTBOROUGH MA 01581	NON GC	N/A	N/A
SPILLS		ASTRO CRANE 2-0016136/RAO	I-495 S WESTBOROUGH MA 01581	NON GC	N/A	N/A
SPILLS		BETWEEN EXIT 11A AND 11 2-0011921/RAO	MA TPKE WESTBOROUGH MA 01581	NON GC	N/A	N/A
ERNS		304754/HIGHWAY RELATED	I-90 WESTBOROUGH MA 01581	NON GC	N/A	N/A
RCRAGN		WESTBORO STATE HOSP MV5083664401/SQG-MA	LYMAN ST WESTBOROUGH MA 01581	NON GC	N/A	N/A
SPILLS		BandB EXPRESS ROADWAY REL 2-0016203/RAO	MASSACHUSETTS TPKE MM 107 WESTBOROUGH MA 01581	NON GC	N/A	N/A
ERNS		D30530/HIGHWAY	UNKNOWN WESTBOROUGH MA 01581	NON GC	N/A	N/A
ERNS		UNKNOWN 424941/HIGHWAY RELATED	I-90, BETWEEN EXIT 11 and E WESTBOROUGH MA 01581	NON GC	N/A	N/A
ERNS		UNKNOWN 050796/HIGHWAY	UNKNOWN WESTBOROUGH MA 01581	NON GC	N/A	N/A
ERNS		ROUTE 9 NRC-783753/MOBILE	UNKNOWN WESTBOROUGH MA 01581	NON GC	N/A	N/A
ERNS		MP: QB34 NRC-879591/RAILROAD NON-RELEASE	MP: QB34 WESTBOROUGH MA 01581	NON GC	N/A	N/A
ERNS		MOBIL OIL CORP 423951/FIXED FAC./UST	WESTBORO LN I-90 WESTBOROUGH MA 01581	NON GC	N/A	N/A
ERNS		MASSACHUSETTS ELECTRIC 284178/FIXED FACILITY	UNKNOWN WESTBOROUGH MA 01581	NON GC	N/A	N/A
ERNS		EAST ON ROUTE 9 NRC-783767/MOBILE	UNKNOWN WESTBOROUGH MA 01581	NON GC	N/A	N/A
SPILLS		D and G TRUCKING 2-0015646/RAO	I-90 E-MM 102 WESTBOROUGH MA 01581	NON GC	N/A	N/A
ERNS		GARELICK FARMS 239430/HIGHWAY RELATED	I-90 W NEAR MILE MARKER 106 WESTBOROUGH MA 01581	NON GC	N/A	N/A

Environmental FirstSearch
Sites Summary Report

Target Property: 183 TURNPIKE ROAD
WESTBOROUGH MA 01581

JOB: 05-213212

TOTAL: 77 **GEOCODED:** 18 **NON GEOCODED:** 59 **SELECTED:** 0

Map ID	DB Type	Site Name/ID/Status	Address	Dist/Dir	ElevDiff	Page No.
	SPILLS	WEBCO ENGINEERING 2-0017637/RAO	45 HOPKINTON RD WESTBOROUGH MA 01581	NON GC	N/A	N/A
	SPILLS	POND 2-0013627/ADQREG	THOMAS NEWTON DR WESTBOROUGH MA 01581	NON GC	N/A	N/A
	SPILLS	RESIDENCE 2-0017540/UNCLSS	67 ADAMS ST WESTBOROUGH MA 01581	NON GC	N/A	N/A
	SPILLS	ROADWAY RELEASE 2-0013442/RAO	RUGGLES RD WESTBOROUGH MA 01581	NON GC	N/A	N/A
	SPILLS	RT 495 INTERCHANGE 2-0014874/RAO	MASSACHUSETTS TPKE EASTBOUN WESTBOROUGH MA 01581	NON GC	N/A	N/A
	SPILLS	SERVICE AREA 6W 2-0017035/RAO	I-90 WESTBOROUGH MA 01581	NON GC	N/A	N/A
	SPILLS	SHREWSBURY NURSERY 2-0012255/RAO	WEST ROUTE 30 AT MAIN WESTBOROUGH MA 01581	NON GC	N/A	N/A
	SPILLS	SOUTH OF 189 2-0013381/RAO	RUGGLES ST WESTBOROUGH MA 01581	NON GC	N/A	N/A
	SPILLS	BLACK WATER AT BALL PARK C92-0199/CLOSED	NEAR OLD AGE HOME WESTBOROUGH MA 01581	NON GC	N/A	N/A
	SPILLS	TRANSFORMER RELEASE 2-0017247/RAO	95 TURNPIKE RD WESTBOROUGH MA 01581	NON GC	N/A	N/A
	SPILLS	MIDWEST COAST TRANSPORT 2-0013513/RAO	RTE 9 WESTBOROUGH MA 01581	NON GC	N/A	N/A
	SPILLS	WESTBOROUGH AQUISITION LLC 2-0016037/RAO	E MAIN ST WESTBOROUGH MA 01581	NON GC	N/A	N/A
	SPILLS	WESTBOROUGH FIRE DEPT 2-0017670/UNCLSS	42 MILK ST WESTBOROUGH MA 01581	NON GC	N/A	N/A
	SPILLS	WESTBOROUGH SERVICE PLAZA 2-0016266/RAO	MASSACHUSETTS TPKE AREA 6AW NON GC WESTBOROUGH MA 01581	N/A	N/A	N/A
	SWL	EL HARVEY and SONS COMPOST SITE CO0328.006/ACTIVE	HOPKINTON ROAD WESTBOROUGH MA	NON GC	N/A	N/A
	SWL	WESTBOROUGH LANDFILL SL0328.004/INACTIVE	UNION ST WESTBOROUGH MA 01581	NON GC	N/A	N/A
	SWL	WESTBOROUGH SLUDGE LANDFILL SG0328.003/ACTIVE	MEADOW ROAD WESTBOROUGH MA 01851	NON GC	N/A	N/A
	UST	HMS REALTY TRUST 0-018132/REMOVED	LYONS ST WESTBOROUGH MA 01581	NON GC	N/A	N/A
	SPILLS	TANK REMOVAL C92-0165/CLOSED	ELI WHITNEY ST WESTBOROUGH MA 01581	NON GC	N/A	N/A
	SPILLS	MA TPK ON RAMP AT RT 495 RT 90 2-0014684/RAO	RTS 495 AND MA PIKE INTERCH WESTBOROUGH MA 01581	NON GC	N/A	N/A

Environmental FirstSearch
Sites Summary Report

Target Property: 183 TURNPIKE ROAD
WESTBOROUGH MA 01581

JOB: 05-213212

TOTAL: 77

GEOCODED: 18

NON GEOCODED: 59

SELECTED: 0

Map ID	DB Type	Site Name/ID/Status	Address	Dist/Dir	ElevDiff	Page No.
TRIBALLAND	BUREAU OF INDIAN AFFAIRS CONTACT I BIA-01581		UNKNOWN MA 01581	NON GC	N/A	N/A
SPILLS	FREEHOLD CARTAGE INC REL 2-0016285/RAO		MASSACHUSETTS TURNPIKE REST NON GC WESTBOROUGH MA 01581	NON GC	N/A	N/A
SPILLS	FRS McNAMARA 2-0015076/RAO		MA TURNPIKE-WESTBOUND WESTBOROUGH MA 01581	NON GC	N/A	N/A
SPILLS	GARELICK FARMS INC 2-0016681/RAO		MA TPKE AREA 6W WESTBOROUGH MA 01581	NON GC	N/A	N/A
SPILLS	GOLDEN CARRIERS 2-0015015/RAO		2200 RESEARCH DR WESTBOROUGH MA 01581	NON GC	N/A	N/A
SPILLS	GREEN ALGAE IN LAKE C92-0506/CLOSED		LAKE CHAUNCEY WESTBOROUGH MA 01581	NON GC	N/A	N/A
SPILLS	GULF OIL LP 2-0015661/RAO		I-90 -MM105 WESTBOROUGH MA 01581	NON GC	N/A	N/A
SPILLS	OWENS AND MINOR DISTRIBUTORS INC 2-0014456/RAO		RTE495N AT FLANDERS RD WESTBOROUGH MA 01581	NON GC	N/A	N/A
SPILLS	LANITA TRANSPORTATION LLC RAODWAY 2-0015869/RAO		NORTH RT 495 1 M MASS WESTBOROUGH MA 01581	NON GC	N/A	N/A
SPILLS	MULCH SPILL 2-0011692/RAO		RTE 495N WESTBOROUGH MA 01581	NON GC	N/A	N/A
SPILLS	MA TPKE W EXIT 6A 2-0013588/RAO		MA TPKE WESTBOROUGH MA 01581	NON GC	N/A	N/A
SPILLS	MASS HIGHWAY DEPT 2-0010715/RAO		RTE 495N WESTBOROUGH MA 01581	NON GC	N/A	N/A
SPILLS	MASS PIKE C93-0102/CLOSED		MASS PIKE (MM103 EAST) WESTBOROUGH MA 01581	NON GC	N/A	N/A
SPILLS	MASS. ELECTRIC C92-0276/CLOSED		COMPUTER DR WESTBOROUGH MA 01581	NON GC	N/A	N/A
SPILLS	MECO SUBSTATION 2-0014177/RAO		E MAIN ST WESTBOROUGH MA 01581	NON GC	N/A	N/A
SPILLS	MI MARKER 105 2-0010836/RAO		MA TPKE WESTBOROUGH MA 01581	NON GC	N/A	N/A
SPILLS	MI MARKER 106.6 ON HOPKINTON LINE 2-0010496/RAO		EAST MA TPKE WESTBOROUGH MA 01581	NON GC	N/A	N/A
SPILLS	CONTAINER SPILL C93-0175/CLOSED		NORTH RTE 495 WESTBOROUGH MA 01581	NON GC	N/A	N/A
SPILLS	GULF STATION 2-0017604/RAO		I-90 AREA 6AW WESTBOROUGH MA 01581	NON GC	N/A	N/A

Environmental FirstSearch
Site Detail Report

Target Property: 183 TURNPIKE ROAD
WESTBOROUGH MA 01581

JOB: 05-213212

RCRAGN

SEARCH ID:	DIST/DIR:	ELEVATION:	MAP ID:
1	0.09 SW	336	1

NAME: CURRY PRINTING and COPY CENTER	REV: 10/14/09
ADDRESS: 190 TURNPIKE RD	ID1: MAD019500164
WESTBOROUGH MA 01581	ID2:
	STATUS: VGN
	PHONE:
CONTACT:	
SOURCE: EPA	

SITE INFORMATION

CONTACT INFORMATION:	JAMES MORSE PO BOX 179 WESTBOROUGH MA 01581
PHONE:	5083664425

UNIVERSE INFORMATION:

NAIC INFORMATION

311225 - FATS AND OILS REFINING AND BLENDING

ENFORCEMENT INFORMATION:

AGENCY:	DATE:	
TYPE:	120 - WRITTEN INFORMAL	3/26/1993
AGENCY:	DATE:	
TYPE:	120 - WRITTEN INFORMAL	3/26/1993

VIOLATION INFORMATION:

VIOLATION NUMBER:	RESPONSIBLE:	
DETERMINED:	0001	DETERMINED BY:
CITATION:	3/22/1993	S - STATE
RESOLVED:	340(1)(b)	
TYPE:	4/22/1993	
	CONTAINER MGT=SAT LITE ACCUMS/CONTAINER	
VIOLATION NUMBER:	RESPONSIBLE:	S - STATE
DETERMINED:	0002	DETERMINED BY:
CITATION:	3/22/1993	S - STATE
RESOLVED:	340(1)(k)	
TYPE:	4/22/1993	
	CONTAINER MGT=SAT LITE ACCUMS/CONTAINER	
VIOLATION NUMBER:	RESPONSIBLE:	S - STATE
DETERMINED:	0003	DETERMINED BY:
CITATION:	3/22/1993	S - STATE
RESOLVED:	340(1)(j)	
TYPE:	4/22/1993	
	CONTAINER MGT=SAT LITE ACCUMS/CONTAINER	
VIOLATION NUMBER:	RESPONSIBLE:	S - STATE
DETERMINED:	0004	DETERMINED BY:
CITATION:	3/22/1993	S - STATE
RESOLVED:	685(4)	
	4/22/1993	

- Continued on next page -

Environmental FirstSearch
Site Detail Report

Target Property: 183 TURNPIKE ROAD
WESTBOROUGH MA 01581

JOB: 05-213212

RCRAGN

SEARCH ID: 1 **DIST/DIR:** 0.09 SW **ELEVATION:** 336 **MAP ID:** 1

NAME: CURRY PRINTING and COPY CENTER **REV:** 10/14/09
ADDRESS: 190 TURNPIKE RD **ID1:** MAD019500164
WESTBOROUGH MA 01581 **ID2:**
CONTACT: **STATUS:** VGN
SOURCE: EPA **PHONE:**

TYPE: CONTAINER MGT=SAT LITE ACCUMS/CONTAINER

VIOLATION NUMBER: 0005 **RESPONSIBLE:** S - STATE
DETERMINED: 3/22/1993 **DETERMINED BY:** S - STATE
CITATION: 340(1)(g)
RESOLVED: 4/22/1993
TYPE: CONTAINER MGT=SAT LITE ACCUMS/CONTAINER

VIOLATION NUMBER: 0006 **RESPONSIBLE:** S - STATE
DETERMINED: 3/22/1993 **DETERMINED BY:** S - STATE
CITATION: 682
RESOLVED: 4/22/1993
TYPE: CONTAINER MGT=SAT LITE ACCUMS/CONTAINER

VIOLATION NUMBER: 0007 **RESPONSIBLE:** S - STATE
DETERMINED: 3/22/1993 **DETERMINED BY:** S - STATE
CITATION: 351(9)
RESOLVED: 4/22/1993
TYPE: PREPARDNESS AND PREVENTION

Environmental FirstSearch
Site Detail Report

Target Property: 183 TURNPIKE ROAD
WESTBOROUGH MA 01581

JOB: 05-213212

RCRAGN

SEARCH ID: 2 **DIST/DIR:** 0.14 NW **ELEVATION:** 307 **MAP ID:** 2

NAME: NORTH STAR YOUTH FORUM
ADDRESS: 15 BRIDLE LN
WESTBOROUGH MA 01581
WORCESTER
CONTACT:
SOURCE: MA DEP

REV: 1/1/07
ID1: MV5083661562
ID2: MA HAZ WASTE GENERATOR
STATUS: SQG-MA
PHONE:

SITE INFORMATION

MASSACHUSETTS DEPARTMENT OF ENVIRONMENTAL PROTECTION, BUREAU OF WASTE PREVENTION - HAZARDOUS WASTE GENERATOR

VQG-MA= Very Small Quantity Generator of hazardous waste or waste oil (Less than 220 pounds or 27 gallons/month)

SQN-MA = Small Quantity Generator of waste oil (220 to 2,200 ponds or 27 to 270 gallons/month)

Environmental FirstSearch
Site Detail Report

Target Property: 183 TURNPIKE ROAD
WESTBOROUGH MA 01581

JOB: 05-213212

STATE

SEARCH ID: 18	DIST/DIR: 0.20 NE	ELEVATION: 285	MAP ID: 3
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NAME: TURNPIKE PARK COOPERATIVE	REV: 12/15/09
ADDRESS: 165 TURNPIKE PARK	ID1: 2-0017202
WESTBOROUGH MA 01581	ID2:
WORCESTER	STATUS: TIER1C
CONTACT:	PHONE:
SOURCE: MA DEP	

SITE INFORMATION

STATUS: TIER 1C - A site/release receiving a total NRS score less than 450 and equal to or greater than 350. A site/release receiving a total NRS score of less than 350, but which meets any of the Tier 1 Inclusionary Criteria specified in 310 CMR 40.0520(2)(a), is also classified a Tier 1C. These sites/releases also require a permit, but response actions may be performed under the supervision of an LPS without prior DEP approval.

STATUS: TIER 1C - A site/release receiving a total NRS score less than 450 and equal to or greater than 350. A site/release receiving a total NRS score of less than 350, but which meets any of the Tier 1 Inclusionary Criteria specified in 310 CMR 40.0520(2)(a), is also classified a Tier 1C. These sites/releases also require a permit, but response actions may be performed under the supervision of an LPS without prior DEP approval.

LOCATION TYPE: COMMERCIAL,
SOURCE:
SITE DESCRIPTION:

CHEMICALS

TETRACHLOROETHYLENE 15.9 UG/L
CHLORODIBROMOMETHANE 2 UG/L
C11 THRU C22 AROMATIC HYDROCARBONS 205 UG/L

SITE ACTIONS

ACT DATE:	8/11/2008
ACT USE LIMITATION:	REPORTABLE RELEASE UNDER MGL 21E
ACT STATUS:	APPROV
ACT TYPE:	BWS03
RAO CLASS:	
ACT DATE:	8/11/2008
ACT USE LIMITATION:	RELEASE DISPOSITION
ACT STATUS:	
ACT TYPE:	
RAO CLASS:	
ACT DATE:	8/11/2008
ACT USE LIMITATION:	REPORTABLE RELEASE UNDER MGL 21E
ACT STATUS:	RELEASE NOTIFICATION
ACT TYPE:	
RAO CLASS:	
ACT DATE:	8/26/2008
ACT USE LIMITATION:	NOTICE OF RESPONSIBILITY
ACT STATUS:	ISSUED
ACT TYPE:	
RAO CLASS:	
ACT DATE:	6/10/2009
ACT USE LIMITATION:	NOTICE OF RESPONSIBILITY
ACT STATUS:	ALSENT
ACT TYPE:	

- *Continued on next page* -

Environmental FirstSearch
Site Detail Report

Target Property: 183 TURNPIKE ROAD
WESTBOROUGH MA 01581

JOB: 05-213212

STATE

SEARCH ID: 18 **DIST/DIR:** 0.20 NE **ELEVATION:** 285 **MAP ID:** 3

NAME: TURNPIKE PARK COOPERATIVE
ADDRESS: 165 TURNPIKE PARK
WESTBOROUGH MA 01581
WORCESTER
CONTACT:
SOURCE: MA DEP

REV: 12/15/09
ID1: 2-0017202
ID2:
STATUS: TIER1C
PHONE:

RAO CLASS:

ACT DATE: 8/13/2009

ACT USE LIMITATION:

ACT STATUS: SCOPE OF WORK RECEIVED

ACT TYPE: PHASE 2

RAO CLASS:

ACT DATE: 8/13/2009

ACT USE LIMITATION:

ACT STATUS: COMPLETION STATEMENT RECEIVED

ACT TYPE: PHASE 1

RAO CLASS:

ACT DATE: 8/13/2009

ACT USE LIMITATION:

ACT STATUS: TIER 1C CLASSIFICATION

ACT TYPE: TIER CLASSIFICATION

RAO CLASS:

ACT DATE: 8/13/2009

ACT USE LIMITATION:

ACT STATUS: TRANSMITTAL RECEIVED

ACT TYPE: TIER CLASSIFICATION

RAO CLASS:

ACT DATE: 9/2/2009

ACT USE LIMITATION:

ACT STATUS: TECHNICAL SCREEN AUDIT

ACT TYPE: PHASE 1

RAO CLASS:

ACT DATE: 9/22/2009

ACT USE LIMITATION:

ACT STATUS: PERMIT EFFECTIVE DATE

ACT TYPE: TIER CLASSIFICATION

RAO CLASS:

Environmental FirstSearch
Site Detail Report

Target Property: 183 TURNPIKE ROAD
WESTBOROUGH MA 01581

JOB: 05-213212

STATE

SEARCH ID: 11 **DIST/DIR:** 0.60 NE **ELEVATION:** 294 **MAP ID:** 4

NAME: MOBIL STATION 06 E5F **REV:** 8/7/06
ADDRESS: 42 LYMAN ST **ID1:** 2-0000885
WESTBOROUGH MA 01581 **ID2:**
CONTACT: **STATUS:** TIER1C
SOURCE: MA DEP **PHONE:**

SITE INFORMATION

STATUS: TIER 1C - A site/release receiving a total NRS score less than 450 and equal to or greater than 350. A site/release receiving a total NRS score of less than 350, but which meets any of the Tier 1 Inclusionary Criteria specified in 310 CMR 40.0520(2)(a), is also classified a Tier 1C. These sites/releases also require a permit, but response actions may be performed under the supervision of an LPS without prior DEP approval.

LTBI: **CONFIRMED:**
DELETED: **REMOVED:**

LTBI: 4/15/1992 **CONFIRMED:** 4/15/1992
DELETED: **REMOVED:**

LOCATION TYPE: GASSTATION,
SOURCE:
SITE DESCRIPTION: GROUNDWATER RELEASE; GASOLINE PRESENT; GAS STATION; RELEASE TO SOIL;

OTHER CONTAMINATION:
OTHER RELEASES:
OTHER PROBLEMS:
OTHER TYPE OF SITE:

CHEMICALS

UNKNOWN CHEMICAL OF UNKNOWN TYPE

SITE ACTIONS

TS DATE: 3/10/2000
AUL RESTRICTION:
LSP:
RA STATUS: DNT2EX
RAS TYPE: TIER2EXT
RAO CLASS:

TS DATE: 1/3/2000
AUL RESTRICTION:
LSP: JAMES YOUNG
RA STATUS: COMPLETION STATEMENT RECEIVED
RAS TYPE: PHASEIII
RAO CLASS:

TS DATE: 2/11/2000
AUL RESTRICTION:
LSP: CHRISTOPHE HENRY
RA STATUS: TRANSMITTAL RECEIVED
RAS TYPE: TIER2EXT

- *Continued on next page* -

Environmental FirstSearch
Site Detail Report

Target Property: 183 TURNPIKE ROAD
WESTBOROUGH MA 01581

JOB: 05-213212

STATE

SEARCH ID: 11	DIST/DIR: 0.60 NE	ELEVATION: 294	MAP ID: 4
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NAME: MOBIL STATION 06 E5F	REV: 8/7/06
ADDRESS: 42 LYMAN ST	ID1: 2-0000885
WESTBOROUGH MA 01581	ID2:

CONTACT:	STATUS: TIER1C
SOURCE: MA DEP	PHONE:

RAO CLASS:

TS DATE: 1/4/1999

AUL RESTRICTION:

LSP: JAMES YOUNG

RA STATUS: COMPLETION STATEMENT RECEIVED

RAS TYPE: PHASEII

RAO CLASS:

TS DATE: 11/6/1998

AUL RESTRICTION:

LSP: JAMES YOUNG

RA STATUS: SCOPE OF WORK RECEIVED

RAS TYPE: PHASEII

RAO CLASS:

TS DATE: 3/9/2001

AUL RESTRICTION:

LSP: BRUCE ROSS

RA STATUS: COMPLETION STATEMENT RECEIVED

RAS TYPE: RELEASE ABATEMENT MEASURE

RAO CLASS:

TS DATE: 2/12/1999

AUL RESTRICTION:

LSP: JAMES YOUNG

RA STATUS:

RAS TYPE: TIER2EXT

RAO CLASS:

ACT DATE: 11/15/2001

ACT USE LIMITATION:

LSP: ANDREA SEWAL

ACT STATUS: COMPLETION STATEMENT RECEIVED

ACT TYPE: PHASE 4

RAO CLASS:

ACT DATE: 7/14/2005

ACT USE LIMITATION:

LSP: ANDREA SEWAL

ACT STATUS: TIER 1C CLASSIFICATION

ACT TYPE: TIER CLASSIFICATION

RAO CLASS:

ACT DATE: 4/19/2006

ACT USE LIMITATION:

- Continued on next page -

Environmental FirstSearch
Site Detail Report

Target Property: 183 TURNPIKE ROAD
WESTBOROUGH MA 01581

JOB: 05-213212

STATE

SEARCH ID: 11 **DIST/DIR:** 0.60 NE **ELEVATION:** 294 **MAP ID:** 4

NAME: MOBIL STATION 06 E5F **REV:** 8/7/06
ADDRESS: 42 LYMAN ST **ID1:** 2-0000885
WESTBOROUGH MA 01581 **ID2:**
CONTACT: **STATUS:** TIER1C
SOURCE: MA DEP **PHONE:**

LSP: ANDREA SEWAL
ACT STATUS: TECHNICAL SCREEN AUDIT
ACT TYPE: RELEASE ABATEMENT MEASURE
RAO CLASS:

ACT DATE: 5/19/2006
ACT USE LIMITATION:
LSP: ANDREA SEWAL
ACT STATUS: TECHNICAL SCREEN AUDIT
ACT TYPE: PHASE 5
RAO CLASS:

ACT DATE: 1/4/1999
ACT USE LIMITATION:
LSP:
ACT STATUS: COMPLETION STATEMENT RECEIVED
ACT TYPE: PHASE 2
RAO CLASS:

ACT DATE: 4/15/1992
ACT USE LIMITATION:
LSP:
ACT STATUS: VALID TRANSITION SITE
ACT TYPE: RELEASE DISPOSITION
RAO CLASS:

ACT DATE: 1/3/2000
ACT USE LIMITATION:
LSP:
ACT STATUS: COMPLETION STATEMENT RECEIVED
ACT TYPE: PHASE 3
RAO CLASS:

Environmental FirstSearch
Site Detail Report

Target Property: 183 TURNPIKE ROAD
WESTBOROUGH MA 01581

JOB: 05-213212

STATE

SEARCH ID: 10	DIST/DIR: 0.60 NE	ELEVATION: 294	MAP ID: 4
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NAME: MOBIL STATION	REV: 12/15/09
ADDRESS: 42 LYMAN ST	ID1: 2-0012762
WESTBOROUGH MA 01581	ID2:
	STATUS: TIER1C
CONTACT:	PHONE:
SOURCE: MA DEP	

SITE INFORMATION

STATUS: TIER 1C - A site/release receiving a total NRS score less than 450 and equal to or greater than 350. A site/release receiving a total NRS score of less than 350, but which meets any of the Tier 1 Inclusionary Criteria specified in 310 CMR 40.0520(2)(a), is also classified a Tier 1C. These sites/releases also require a permit, but response actions may be performed under the supervision of an LPS without prior DEP approval.

STATUS: TIER 1C - A site/release receiving a total NRS score less than 450 and equal to or greater than 350. A site/release receiving a total NRS score of less than 350, but which meets any of the Tier 1 Inclusionary Criteria specified in 310 CMR 40.0520(2)(a), is also classified a Tier 1C. These sites/releases also require a permit, but response actions may be performed under the supervision of an LPS without prior DEP approval.

LTBI:	CONFIRMED:
DELETED:	REMOVED:

LOCATION TYPE:	COMMERCIAL,
SOURCE:	UNKNOWN;
SITE DESCRIPTION:	

CHEMICALS

METHYL TERT-BUTYL ETHER 281 PPM
TOLUENE 8100 UG/L
C9 THRU C12 ALIPHATIC HYDROCARBONS 16700 UG/L
C9 THRU C10 AROMATIC HYDROCARBONS 21900 UG/L
BENZENE 3830 UG/L
TOTAL XYLENES 268400 UG/L

SITE ACTIONS

LSP INVOLVED:	ANDREA SEWALL
LSP INVOLVED:	CHRISTOPHE HENRY
ACT DATE:	2/11/2000
ACT USE LIMITATION:	
LSP:	
ACT STATUS:	LINKED TO A TIER CLASSIFIED SITE
LINKED SITE ID:	2-0000885
ACT TYPE:	RAO NOT REQUIRED
RAO CLASS:	

ACT DATE:	4/14/1994
ACT USE LIMITATION:	
ACT STATUS:	TRANSMITTAL RECEIVED
ACT TYPE:	TIER CLASSIFICATION
RAO CLASS:	

ACT DATE:	2/12/1999
ACT USE LIMITATION:	
ACT STATUS:	TIER 2 EXTENSION

- Continued on next page -

Environmental FirstSearch
Site Detail Report

Target Property: 183 TURNPIKE ROAD
WESTBOROUGH MA 01581

JOB: 05-213212

STATE

SEARCH ID: 10	DIST/DIR: 0.60 NE	ELEVATION: 294	MAP ID: 4
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NAME: MOBIL STATION	REV: 12/15/09
ADDRESS: 42 LYMAN ST	ID1: 2-0012762
WESTBOROUGH MA 01581	ID2:
	STATUS: TIER1C
CONTACT:	PHONE:
SOURCE: MA DEP	

ACT TYPE: TIER CLASSIFICATION
RAO CLASS:

ACT DATE: 4/14/1999

ACT USE LIMITATION:
ACT STATUS: TIER 2 CLASSIFICATION
ACT TYPE: TIER CLASSIFICATION
RAO CLASS:

ACT DATE: 4/23/1999

ACT USE LIMITATION:
ACT STATUS: FOLLOW UP OFFICE RESPONSE
ACT TYPE: SITE VISIT OR COMPLIANCE INSPECTION
RAO CLASS:

ACT DATE: 4/23/1999

ACT USE LIMITATION:
ACT STATUS: REPORTABLE RELEASE UNDER MGL 21E
ACT TYPE: RELEASE DISPOSITION
RAO CLASS:

ACT DATE: 4/23/1999

ACT USE LIMITATION:
ACT STATUS: IRA ASSESSMENT ONLY
ACT TYPE: IMMEDIATE RESPONSE ACTION
RAO CLASS:

ACT DATE: 6/7/1999

ACT USE LIMITATION:
ACT STATUS: ISSUED
ACT TYPE: NOTICE OF RESPONSIBILITY
RAO CLASS:

ACT DATE: 6/22/1999

ACT USE LIMITATION:
ACT STATUS: REPORTABLE RELEASE UNDER MGL 21E
ACT TYPE: RELEASE NOTIFICATION
RAO CLASS:

ACT DATE: 6/22/1999

ACT USE LIMITATION:
ACT STATUS: RETRAC
ACT TYPE: RELEASE DISPOSITION
RAO CLASS:

ACT DATE: 8/5/1999

ACT USE LIMITATION:
ACT STATUS: REPORTABLE RELEASE UNDER MGL 21E
ACT TYPE: RELEASE DISPOSITION
RAO CLASS:

ACT DATE: 2/11/2000

ACT USE LIMITATION:

- Continued on next page -

Environmental FirstSearch
Site Detail Report

Target Property: 183 TURNPIKE ROAD
WESTBOROUGH MA 01581

JOB: 05-213212

STATE

SEARCH ID: 10	DIST/DIR: 0.60 NE	ELEVATION: 294	MAP ID: 4
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NAME: MOBIL STATION	REV: 12/15/09
ADDRESS: 42 LYMAN ST	ID1: 2-0012762
WESTBOROUGH MA 01581	ID2:
	STATUS: TIER1C
CONTACT:	PHONE:
SOURCE: MA DEP	

ACT STATUS:	TIER 2 EXTENSION
ACT TYPE:	TIER CLASSIFICATION
RAO CLASS:	
ACT DATE:	2/11/2000
ACT USE LIMITATION:	RTN LINKED TO TCLASS VIA TIER CLASSIFICATION SUBMITTAL
ACT STATUS:	TIER CLASSIFICATION
ACT TYPE:	
RAO CLASS:	
ACT DATE:	2/11/2000
ACT USE LIMITATION:	LINKED TO A TIER CLASSIFIED SITE
ACT STATUS:	RAO NOT REQUIRED
ACT TYPE:	
RAO CLASS:	
ACT DATE:	3/10/2000
ACT USE LIMITATION:	PERMIT OR TIER 2 EXTENSION DENIED
ACT STATUS:	TIER CLASSIFICATION
ACT TYPE:	
RAO CLASS:	
ACT DATE:	10/12/2000
ACT USE LIMITATION:	ACO
ACT STATUS:	COMPLIANCE AND ENFORCEMENT
ACT TYPE:	
RAO CLASS:	
ACT DATE:	5/8/2002
ACT USE LIMITATION:	TIER 2 EXTENSION
ACT STATUS:	TIER CLASSIFICATION
ACT TYPE:	
RAO CLASS:	
ACT DATE:	5/24/2002
ACT USE LIMITATION:	TIER 2 EXTENSION
ACT STATUS:	TIER CLASSIFICATION
ACT TYPE:	
RAO CLASS:	
ACT DATE:	7/14/2005
ACT USE LIMITATION:	TIER 1C CLASSIFICATION
ACT STATUS:	TIER CLASSIFICATION
ACT TYPE:	
RAO CLASS:	

Environmental FirstSearch
Site Detail Report

Target Property: 183 TURNPIKE ROAD
WESTBOROUGH MA 01581

JOB: 05-213212

STATE

SEARCH ID: 15	DIST/DIR: 0.64 NE	ELEVATION: 296	MAP ID: 5
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NAME: SHELL STATION	REV: 10/23/02
ADDRESS: 128 TURNPIKE RD	ID1: 2-0000733
WESTBOROUGH MA 01581	ID2:
	STATUS: REMOPS
CONTACT:	PHONE:
SOURCE: MA DEP	

SITE INFORMATION

STATUS: TIER 1C - A site/release receiving a total NRS score less than 450 and equal to or greater than 350. A site/release receiving a total NRS score of less than 350, but which meets any of the Tier 1 Inclusionary Criteria specified in 310 CMR 40.0520(2)(a), is also classified a Tier 1C. These sites/releases also require a permit, but response actions may be performed under the supervision of an LPS without prior DEP approval.

LTBI:	7/15/1990	CONFIRMED:	7/15/1990
DELETED:		REMOVED:	

CATEGORY:	NONE	21E STATUS:	TIER 1C
DATE:	3/26/1990	21E DATE:	8/28/2002
PHASE:	PHASE V	HAZMAT TYPE:	

RAO CLASS:

LOCATION TYPE:	GASSTATION,
SOURCE:	UST;
SITE DESCRIPTION:	RELEASE TO SOIL; GAS STATION; GROUNDWATER RELEASE; GASOLINE PRESENT; CONTAINED IN A LUST;

OTHER CONTAMINATION:

OTHER RELEASES:

OTHER PROBLEMS:

OTHER TYPE OF SITE:

CHEMICALS

UNKNOWN CHEMICAL OF UNKNOWN TYPE
UNKNOWN CHEMICAL OF UNKNOWN TYPE

SITE ACTIONS

TS DATE:	11/12/1993
AUL RESTRICTION:	
LSP:	JOSEPH LANDYN
RA STATUS:	WRITTEN PLAN RECEIVED
RAS TYPE:	RELEASE ABATEMENT MEASURE
RAO CLASS:	

TS DATE:	9/15/2000
AUL RESTRICTION:	
LSP:	THOMAS WILLIAMSON
RA STATUS:	RIPRCVD
RAS TYPE:	PHASEIV
RAO CLASS:	

TS DATE:	10/16/1998
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- Continued on next page -

Environmental FirstSearch
Site Detail Report

Target Property: 183 TURNPIKE ROAD
WESTBOROUGH MA 01581

JOB: 05-213212

STATE

SEARCH ID: 15	DIST/DIR: 0.64 NE	ELEVATION: 296	MAP ID: 5
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NAME: SHELL STATION	REV: 10/23/02
ADDRESS: 128 TURNPIKE RD	ID1: 2-0000733
WESTBOROUGH MA 01581	ID2:
	STATUS: REMOPS
CONTACT:	PHONE:
SOURCE: MA DEP	

AUL RESTRICTION:

LSP:	GEORGE CAMPBELL
RA STATUS:	TRANSMITTAL RECEIVED
RAS TYPE:	TIER2EXT
RAO CLASS:	

TS DATE: 10/30/1997

AUL RESTRICTION:	
LSP:	GEORGE CAMPBELL
RA STATUS:	
RAS TYPE:	TIER2EXT
RAO CLASS:	

TS DATE: 7/17/2000

AUL RESTRICTION:	
LSP:	THOMAS WILLIAMSON
RA STATUS:	COMPLETION STATEMENT RECEIVED
RAS TYPE:	PHASEII
RAO CLASS:	

TS DATE: 12/18/2000

AUL RESTRICTION:	NON
LSP:	THOMAS WILLIAMSON
RA STATUS:	RAO STATEMENT RECEIVED
RAS TYPE:	RESPONSE ACTION OUTCOME - RAO
RAO CLASS:	C - A TEMPORARY SOLUTION, WHICH ENSURES THE ELIMINATION OF ANY SUBSTANTIAL HAZARD, HAS BEEN ACHIEVED AT THE DISPOSAL SITE.

TS DATE: 12/16/1998

AUL RESTRICTION:	
LSP:	GEORGE CAMPBELL
RA STATUS:	SCOPE OF WORK RECEIVED
RAS TYPE:	PHASEII
RAO CLASS:	

TS DATE: 11/22/2000

AUL RESTRICTION:	
LSP:	THOMAS WILLIAMSON
RA STATUS:	COMPLETION STATEMENT RECEIVED
RAS TYPE:	RELEASE ABATEMENT MEASURE
RAO CLASS:	

TS DATE: 7/17/2000

AUL RESTRICTION:	
LSP:	THOMAS WILLIAMSON
RA STATUS:	COMPLETION STATEMENT RECEIVED
RAS TYPE:	PHASEIII

- Continued on next page -

Environmental FirstSearch
Site Detail Report

Target Property: 183 TURNPIKE ROAD
WESTBOROUGH MA 01581

JOB: 05-213212

STATE

SEARCH ID: 15	DIST/DIR: 0.64 NE	ELEVATION: 296	MAP ID: 5
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NAME: SHELL STATION	REV: 10/23/02
ADDRESS: 128 TURNPIKE RD	ID1: 2-0000733
WESTBOROUGH MA 01581	ID2:

CONTACT:	STATUS: REMOPS
SOURCE: MA DEP	PHONE:

RAO CLASS:

TS DATE: 10/15/1998	
AUL RESTRICTION:	
LSP: GEORGE CAMPBELL	
RA STATUS: WRITTEN PLAN RECEIVED	
RAS TYPE: RELEASE ABATEMENT MEASURE	
RAO CLASS:	

ACT DATE: 07/17/2000	
ACT USE LIMITATION:	
LSP:	
ACT STATUS: COMPLETION STATEMENT RECEIVED	
ACT TYPE: PHASE 3	
RAO TYPE:	

ACT DATE: 09/15/2000	
ACT USE LIMITATION:	
LSP:	
ACT STATUS: WRITTEN PLAN RECEIVED	
ACT TYPE: PHASE 4	
RAO TYPE:	

ACT DATE: 03/26/1990	
ACT USE LIMITATION:	
LSP:	
ACT STATUS: VALID TRANSITION SITE	
ACT TYPE: RELEASE DISPOSITION	
RAO TYPE:	

ACT DATE: 11/22/2000	
ACT USE LIMITATION:	
LSP:	
ACT STATUS: COMPLETION STATEMENT RECEIVED	
ACT TYPE: RELEASE ABATEMENT MEASURE	
RAO TYPE:	

ACT DATE: 11/12/1993	
ACT USE LIMITATION:	
LSP:	
ACT STATUS: WRITTEN PLAN RECEIVED	
ACT TYPE: RELEASE ABATEMENT MEASURE	
RAO TYPE:	

ACT DATE: 08/28/2002	
ACT USE LIMITATION:	

- More Details Exist For This Site; Max Page Limit Reached -

Environmental FirstSearch
Site Detail Report

Target Property: 183 TURNPIKE ROAD
WESTBOROUGH MA 01581

JOB: 05-213212

STATE

SEARCH ID: 3 **DIST/DIR:** 0.76 SW **ELEVATION:** 312 **MAP ID:** 6

NAME: CORRUGATED PAPER CO **REV:** 3/12/04
ADDRESS: 111 MILK ST **ID1:** 2-0000151
WESTBOROUGH MA 01581 **ID2:**
CONTACT: **STATUS:** RAO
SOURCE: MA DEP **PHONE:**

SITE INFORMATION

LTBI: 1/15/1989 **CONFIRMED:**
DELETED: **REMOVED:**

CATEGORY: NONE **21E STATUS:** REMOPS
DATE: 1/15/1989 **21E DATE:** 11/26/2003
PHASE: PHASE V **HAZMAT TYPE:**

RAO CLASS:

LOCATION TYPE:

SOURCE:

SITE DESCRIPTION:

CHEMICALS

UNKNOWN CHEMICAL OF UNKNOWN TYPE

SITE ACTIONS

TS DATE: 12/20/1996
AUL RESTRICTION:
LSP: THOMAS LUBY
RA STATUS: STATUS REPORT RECEIVED
RAS TYPE: IMMEDIATE RESPONSE ACTION
RAO CLASS:

TS DATE: 9/6/1996
AUL RESTRICTION:
LSP: THOMAS LUBY
RA STATUS: COMPLETION STATEMENT RECEIVED
RAS TYPE: PHASE 1
RAO CLASS:

TS DATE: 4/8/1999
AUL RESTRICTION:
LSP: THOMAS LUBY
RA STATUS: STATUS REPORT RECEIVED
RAS TYPE: IMMEDIATE RESPONSE ACTION
RAO CLASS:

TS DATE: 1/26/1998
AUL RESTRICTION:
LSP: THOMAS LUBY

- *Continued on next page* -

Environmental FirstSearch
Site Detail Report

Target Property: 183 TURNPIKE ROAD
WESTBOROUGH MA 01581

JOB: 05-213212

STATE

SEARCH ID: 3	DIST/DIR: 0.76 SW	ELEVATION: 312	MAP ID: 6
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NAME: CORRUGATED PAPER CO	REV: 3/12/04
ADDRESS: 111 MILK ST	ID1: 2-0000151
WESTBOROUGH MA 01581	ID2:
	STATUS: RAO
CONTACT:	PHONE:
SOURCE: MA DEP	

RA STATUS:	STATUS REPORT RECEIVED
RAS TYPE:	IMMEDIATE RESPONSE ACTION
RAO CLASS:	

TS DATE:	7/7/1997
AUL RESTRICTION:	
LSP:	THOMAS LUBY
RA STATUS:	STATUS REPORT RECEIVED
RAS TYPE:	IMMEDIATE RESPONSE ACTION
RAO CLASS:	

TS DATE:	9/14/1998
AUL RESTRICTION:	
LSP:	THOMAS LUBY
RA STATUS:	STATUS REPORT RECEIVED
RAS TYPE:	IMMEDIATE RESPONSE ACTION
RAO CLASS:	

TS DATE:	9/6/1996
AUL RESTRICTION:	
LSP:	THOMAS LUBY
RA STATUS:	TIER CLASSIFICATION
RAS TYPE:	
RAO CLASS:	

ACT DATE:	2/25/2004
ACT USE LIMITATION:	
LSP:	
ACT STATUS:	SNAUDI
ACT TYPE:	AUDIT INSPECTION
RAO TYPE:	

ACT DATE:	12/18/2003
ACT USE LIMITATION:	
LSP:	RICHARD KOWA
ACT STATUS:	TSAUD
ACT TYPE:	TECHNICAL SCREEN AUDIT
RAO TYPE:	

ACT DATE:	12/18/2003
ACT USE LIMITATION:	NONE
LSP:	RICHARD KOWA
ACT STATUS:	TSAUD
ACT TYPE:	TECHNICAL SCREEN AUDIT
RAO TYPE:	C - A TEMPORARY SOLUTION, WHIC

- *Continued on next page* -

Environmental FirstSearch
Site Detail Report

Target Property: 183 TURNPIKE ROAD
WESTBOROUGH MA 01581

JOB: 05-213212

STATE

SEARCH ID: 3 **DIST/DIR:** 0.76 SW **ELEVATION:** 312 **MAP ID:** 6

NAME: CORRUGATED PAPER CO **REV:** 3/12/04
ADDRESS: 111 MILK ST **ID1:** 2-0000151
WESTBOROUGH MA 01581 **ID2:**
CONTACT: **STATUS:** RAO
SOURCE: MA DEP **PHONE:**

ACT DATE: 3/31/2003
ACT USE LIMITATION:
LSP: RICHARD KOWA
ACT STATUS: T2EXT
ACT TYPE: TIER 2 EXTENSION
RAO TYPE:

ACT DATE: 9/6/1996
ACT USE LIMITATION:
LSP:
ACT STATUS: CSRCVD
ACT TYPE: COMPLETION STATEMENT RECEIVED
RAO TYPE:

ACT DATE: 6/26/2003
ACT USE LIMITATION:
LSP:
ACT STATUS: TSAUD
ACT TYPE: TECHNICAL SCREEN AUDIT
RAO TYPE:

ACT DATE: 1/15/1989
ACT USE LIMITATION:
LSP:
ACT STATUS: TCTRNS
ACT TYPE: VALID TRANSITION SITE
RAO TYPE:

ACT DATE: 6/26/2003
ACT USE LIMITATION:
LSP:
ACT STATUS: TSAUD
ACT TYPE: TECHNICAL SCREEN AUDIT
RAO TYPE:

Environmental FirstSearch
Site Detail Report

Target Property: 183 TURNPIKE ROAD
WESTBOROUGH MA 01581

JOB: 05-213212

STATE

SEARCH ID: 4 **DIST/DIR:** 0.76 SW **ELEVATION:** 312 **MAP ID:** 6

NAME: CORRUGATED PAPER CO **REV:** 8/13/04
ADDRESS: 111 MILK ST **ID1:** 2-0011308
WESTBOROUGH MA 01581 **ID2:**
CONTACT: **STATUS:** RAONR
SOURCE: MA DEP **PHONE:**

SITE INFORMATION

STATUS: TIER 2 - A site/release receiving a total NRS score less than 350, unless the site meets any of the Tier 1 Inclusionary Criteria (CMR 40.0520(2)(a)). Permits are not required at Tier 2 sites/releases and response actions may be performed under the supervision of an LSP without prior DEP approval. All pre-1993 transition sites that have accepted waivers are categorically Tier 2 sites.

LOCATION TYPE: COMMERCIAL,
SOURCE: UST;
SITE DESCRIPTION:

CHEMICALS

FUEL OIL 6 12 INCH
FUEL OIL 6 2700 MG/KG

SITE ACTIONS

ACT DATE: 8/27/1996
ACT USE LIMITATION:
LSP:
ACT STATUS: REPORTABLE RELEASE UNDER MGL 21E
ACT TYPE: RELEASE NOTIFICATION
RAO CLASS:

ACT DATE: 3/31/2003
ACT USE LIMITATION:
LSP:
ACT STATUS: TIER 2 EXTENSION
ACT TYPE: TIER CLASSIFICATION
RAO CLASS:

ACT DATE: 9/6/1996
ACT USE LIMITATION:
LSP:
ACT STATUS: RTN LINKED TO TCLASS VIA TIER CLASSIFICATION SUBMITTAL
ACT TYPE: RAO NOT REQUIRED
RAO CLASS:

ACT DATE: 7/15/1996
ACT USE LIMITATION:
LSP:
ACT STATUS: REPORTABLE RELEASE UNDER MGL 21E
ACT TYPE: RELEASE DISPOSITION
RAO CLASS:

ACT DATE: 11/26/2003

- Continued on next page -

Environmental FirstSearch
Site Detail Report

Target Property: 183 TURNPIKE ROAD
WESTBOROUGH MA 01581

JOB: 05-213212

STATE

SEARCH ID: 4 **DIST/DIR:** 0.76 SW **ELEVATION:** 312 **MAP ID:** 6

NAME: CORRUGATED PAPER CO **REV:** 8/13/04
ADDRESS: 111 MILK ST **ID1:** 2-0011308
WESTBOROUGH MA 01581 **ID2:**
CONTACT: **STATUS:** RAONR
SOURCE: MA DEP **PHONE:**

ACT USE LIMITATION:
LSP: RICHARD KOWA
ACT STATUS: COMPLETION STATEMENT RECEIVED
ACT TYPE: IMMEDIATE RESPONSE ACTION
RAO CLASS:

ACT DATE: 2/25/2004

ACT USE LIMITATION:

LSP:
ACT STATUS: AUDIT INSPECTION
ACT TYPE: PHASE 5
RAO CLASS:

ACT DATE: 9/6/1996

ACT USE LIMITATION:
LSP: THOMAS LUBY
ACT STATUS: TIER 2 CLASSIFICATION
ACT TYPE: TIER CLASSIFICATION
RAO CLASS:

ACT DATE: 9/6/1996

ACT USE LIMITATION:
LSP: THOMAS LUBY
ACT STATUS: COMPLETION STATEMENT RECEIVED
ACT TYPE: PHASE 1
RAO CLASS:

ACT DATE: 1/22/2002

ACT USE LIMITATION:
LSP: RICHARD KOWA
ACT STATUS: SCOPE OF WORK RECEIVED
ACT TYPE: PHASE 2
RAO CLASS:

Environmental FirstSearch
Site Detail Report

Target Property: 183 TURNPIKE ROAD
WESTBOROUGH MA 01581

JOB: 05-213212

STATE

SEARCH ID: 14 **DIST/DIR:** 0.77 SW **ELEVATION:** 274 **MAP ID:** 7

NAME: RTE 9 **REV:** 4/8/02
ADDRESS: 233 TNPK RD **ID1:** 2-0011284
WESTBOROUGH MA 01581 **ID2:**
CONTACT: **STATUS:** RAO
SOURCE: MA DEP **PHONE:**

SITE INFORMATION

LTBI: **CONFIRMED:**
DELETED: **REMOVED:**

CATEGORY: 120 DY **21E STATUS:** TIER 1C
DATE: 6/14/1996 **21E DATE:** 6/17/1997
PHASE: PHASE V **HAZMAT TYPE:** OIL AND HAZARDOUS MATERIAL

RAO CLASS:

LOCATION TYPE:

SOURCE:
SITE DESCRIPTION: V.O.C. S PRESENT; GROUNDWATER RELEASE; CHLORINATED SOLVENTS PRESENT; RELEASE TO SOIL; PETROLEUM PRESENT;

OTHER CONTAMINATION:

OTHER RELEASES:
OTHER PROBLEMS:
OTHER TYPE OF SITE:

CHEMICALS

BENZENE, 1,2,4-TRICHLORO- 320 UG/L
TOTAL PETROLEUM HYDROCARBONS (TPH) 19 MG/L
UNKNOWN CHEMICAL OF TYPE - OIL
BENZENE, 1,3,5-TRIMETHYL- 24 MG/KG
NAPHTHALENE 15 MG/KG
BENZENE, 1,4-DICHLORO- 10 MG/KG
BENZENE, 1,4-DICHLORO- 82 UG/L
BENZENE, 1,2-DICHLORO- 780 UG/L
NAPHTHALENE 120 UG/L
BENZENE, 1,3,5-TRIMETHYL- 130 UG/L
TOTAL PETROLEUM HYDROCARBONS (TPH) 6300 MG/KG

SITE ACTIONS

TS DATE: 6/17/1997
AUL RESTRICTION:
LSP: THOMAS LUBY
RA STATUS: TRANSMITTAL RECEIVED
RAS TYPE: TCLASS: TIER CLASSIFICATION
RAO CLASS:

TS DATE: 6/17/1997
AUL RESTRICTION:
LSP:
RA STATUS: RELATED TO A TRANSITION SITE (NOT TIER CLASSIFIED)

- *Continued on next page* -

Environmental FirstSearch
Site Detail Report

Target Property: 183 TURNPIKE ROAD
WESTBOROUGH MA 01581

JOB: 05-213212

STATE

SEARCH ID: 14	DIST/DIR: 0.77 SW	ELEVATION: 274	MAP ID: 7
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NAME: RTE 9	REV: 4/8/02
ADDRESS: 233 TNPK RD	ID1: 2-0011284
WESTBOROUGH MA 01581	ID2:
	STATUS: RAO
CONTACT:	PHONE:
SOURCE: MA DEP	

RAS TYPE:	FEND
RAO CLASS:	

ACT DATE:	04/27/2000
ACT USE LIMITATION:	
LSP:	DENIS DAMORE
ACT STATUS:	COMPLETION STATEMENT RECEIVED
ACT TYPE:	RAM: RELEASE ABATEMENT MEASURE
RAO TYPE:	

ACT DATE:	02/16/1999
ACT USE LIMITATION:	
LSP:	THOMAS LUBY
ACT STATUS:	STATUS REPORT RECEIVED
ACT TYPE:	RAM: RELEASE ABATEMENT MEASURE
RAO TYPE:	

ACT DATE:	06/05/2001
ACT USE LIMITATION:	
LSP:	DENIS DAMORE
ACT STATUS:	INSPECTION AND MONITORING REPORT RECEIVED
ACT TYPE:	PHASEV: PHASE V
RAO TYPE:	

ACT DATE:	04/27/2000
ACT USE LIMITATION:	
LSP:	DENIS DAMORE
ACT STATUS:	COMPLETION STATEMENT RECEIVED
ACT TYPE:	PHASIV: PHASE IV
RAO TYPE:	

ACT DATE:	04/27/2000
ACT USE LIMITATION:	
LSP:	DENIS DAMORE
ACT STATUS:	COMPLETION STATEMENT RECEIVED
ACT TYPE:	PHSIII: PHASE III
RAO TYPE:	

ACT DATE:	06/14/1996
ACT USE LIMITATION:	
LSP:	
ACT STATUS:	REPORT
ACT TYPE:	RNF
RAO TYPE:	

ACT DATE:	09/09/1997
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Environmental FirstSearch
Site Detail Report

Target Property: 183 TURNPIKE ROAD
WESTBOROUGH MA 01581

JOB: 05-213212

STATE

SEARCH ID: 14 **DIST/DIR:** 0.77 SW **ELEVATION:** 274 **MAP ID:** 7

NAME: RTE 9 **REV:** 4/8/02
ADDRESS: 233 TNPK RD **ID1:** 2-0011284
WESTBOROUGH MA 01581 **ID2:**
CONTACT: **STATUS:** RAO
SOURCE: MA DEP **PHONE:**

ACT USE LIMITATION:
LSP: THOMAS LUBY
ACT STATUS: PEREFF
ACT TYPE: TCLASS: TIER CLASSIFICATION
RAO TYPE:

ACT DATE: 04/27/2000
ACT USE LIMITATION:
LSP: DENIS DAMORE
ACT STATUS: COMPLETION STATEMENT RECEIVED
ACT TYPE: PHASI: PHASE II
RAO TYPE:

ACT DATE: 06/17/1997
ACT USE LIMITATION:
LSP: THOMAS LUBY
ACT STATUS: COMPLETION STATEMENT RECEIVED
ACT TYPE: PHASEI: PHASE I
RAO TYPE:

Environmental FirstSearch
Site Detail Report

Target Property: 183 TURNPIKE ROAD
WESTBOROUGH MA 01581

JOB: 05-213212

STATE

SEARCH ID: 17	DIST/DIR: 0.84 SW	ELEVATION: 277	MAP ID: 8
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NAME: TEXACO STATION	REV: 10/30/06
ADDRESS: 240 TURNPIKE RD	ID1: 2-0014952
WESTBOROUGH MA 01581	ID2:
	STATUS: TIER1C
CONTACT:	PHONE:
SOURCE: MA DEP	

SITE INFORMATION

STATUS: TIER 1C - A site/release receiving a total NRS score less than 450 and equal to or greater than 350. A site/release receiving a total NRS score of less than 350, but which meets any of the Tier 1 Inclusionary Criteria specified in 310 CMR 40.0520(2)(a), is also classified a Tier 1C. These sites/releases also require a permit, but response actions may be performed under the supervision of an LPS without prior DEP approval.

LTBI:	CONFIRMED:
DELETED:	REMOVED:

LOCATION TYPE:	COMMERCIAL,
SOURCE:	UST;
SITE DESCRIPTION:	

CHEMICALS

GASOLINE 2.4 INCH

SITE ACTIONS

ACT DATE:	2/10/2004
ACT USE LIMITATION:	
LSP:	RICHARD KOWA
ACT STATUS:	TECHNICAL SCREEN AUDIT
ACT TYPE:	IMMEDIATE RESPONSE ACTION
RAO CLASS:	

ACT DATE:	10/10/2003
ACT USE LIMITATION:	
LSP:	RICHARD KOWA
ACT STATUS:	REPORTABLE RELEASE UNDER MGL 21E
ACT TYPE:	RELEASE DISPOSITION
RAO CLASS:	

ACT DATE:	11/5/2003
ACT USE LIMITATION:	
LSP:	
ACT STATUS:	PERMIT EFFECTIVE DATE
ACT TYPE:	TIER CLASSIFICATION
RAO CLASS:	

ACT DATE:	10/31/2003
ACT USE LIMITATION:	
LSP:	RICHARD KOWA
ACT STATUS:	LINKED TO A TIER CLASSIFIED SITE
ACT TYPE:	RAO NOT REQUIRED
RAO CLASS:	

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Environmental FirstSearch
Site Detail Report

Target Property: 183 TURNPIKE ROAD
WESTBOROUGH MA 01581

JOB: 05-213212

STATE

SEARCH ID: 17 **DIST/DIR:** 0.84 SW **ELEVATION:** 277 **MAP ID:** 8

NAME: TEXACO STATION	REV: 10/30/06
ADDRESS: 240 TURNPIKE RD	ID1: 2-0014952
WESTBOROUGH MA 01581	ID2:
	STATUS: TIER1C
CONTACT:	PHONE:
SOURCE: MA DEP	

ACT DATE:	10/31/2003
ACT USE LIMITATION:	
LSP:	RICHARD KOWA
ACT STATUS:	REPORTABLE RELEASE UNDER MGL 21E
ACT TYPE:	RELEASE NOTIFICATION
RAO CLASS:	

ACT DATE:	10/31/2003
ACT USE LIMITATION:	
LSP:	RICHARD KOWA
ACT STATUS:	LINKED TO A TIER CLASSIFIED SITE
LINKED SITE ID:	2-0000865
ACT TYPE:	RAO NOT REQUIRED
RAO CLASS:	

Environmental FirstSearch
Site Detail Report

Target Property: 183 TURNPIKE ROAD
WESTBOROUGH MA 01581

JOB: 05-213212

STATE

SEARCH ID: 5	DIST/DIR: 0.84 SW	ELEVATION: 277	MAP ID: 8
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NAME: DEBLOIS OIL	REV: 10/30/06
ADDRESS: 240 TURNPIKE RD	ID1: 2-0000865
WESTBOROUGH MA 01581	ID2:
	STATUS: TIER1C
CONTACT:	PHONE:
SOURCE: MA DEP	

SITE INFORMATION

STATUS: TIER 1C - A site/release receiving a total NRS score less than 450 and equal to or greater than 350. A site/release receiving a total NRS score of less than 350, but which meets any of the Tier 1 Inclusionary Criteria specified in 310 CMR 40.0520(2)(a), is also classified a Tier 1C. These sites/releases also require a permit, but response actions may be performed under the supervision of an LPS without prior DEP approval.

LTBI:	CONFIRMED:
DELETED:	REMOVED:

LTBI:	1/15/1992	CONFIRMED:	7/15/1993
DELETED:		REMOVED:	

LOCATION TYPE:	GASSTATION,
SOURCE:	UNKNOWN;
SITE DESCRIPTION:	GAS STATION; UNKNOWN AS TO WHAT IS CONTAINED IN; RELEASE TO SOIL; PETROLEUM PRESENT; GROUNDWATER RELEASE; GASOLINE PRESENT;

OTHER CONTAMINATION:
OTHER RELEASES:
OTHER PROBLEMS:
OTHER TYPE OF SITE:

CHEMICALS

PETROLEUM BASED OIL

SITE ACTIONS

TS DATE:	8/18/1998
AUL RESTRICTION:	
LSP:	MATTHEW ROBBINS
RA STATUS:	TRANSMITTAL RECEIVED
RAS TYPE:	TIER2EXT
RAO CLASS:	

ACT DATE:	4/10/2006
ACT USE LIMITATION:	
LSP:	RICHARD KOWA
ACT STATUS:	TECHNICAL SCREEN AUDIT
ACT TYPE:	RELEASE ABATEMENT MEASURE
RAO CLASS:	

ACT DATE:	10/31/2003
ACT USE LIMITATION:	
LSP:	RICHARD KOWA
ACT STATUS:	COMPLETION STATEMENT RECEIVED

- *Continued on next page* -

Environmental FirstSearch
Site Detail Report

Target Property: 183 TURNPIKE ROAD
WESTBOROUGH MA 01581

JOB: 05-213212

STATE

SEARCH ID: 5 **DIST/DIR:** 0.84 SW **ELEVATION:** 277 **MAP ID:** 8

NAME: DEBLOIS OIL **REV:** 10/30/06
ADDRESS: 240 TURNPIKE RD **ID1:** 2-0000865
WESTBOROUGH MA 01581 **ID2:**
CONTACT: **STATUS:** TIER1C
SOURCE: MA DEP **PHONE:**

ACT TYPE: PHASE 3
RAO CLASS:

ACT DATE: 5/11/1993
ACT USE LIMITATION:
LSP:
ACT STATUS: COMPLETION STATEMENT RECEIVED
ACT TYPE: PHASE 1
RAO CLASS:

ACT DATE: 1/15/1992
ACT USE LIMITATION:
LSP:
ACT STATUS: VALID TRANSITION SITE
ACT TYPE: RELEASE DISPOSITION
RAO CLASS:

ACT DATE: 11/5/2003
ACT USE LIMITATION:
LSP: RICHARD KOWA
ACT STATUS: PUBLIC COMMENT PERIOD INITIATED ON SUBMITTAL
ACT TYPE: TIER CLASSIFICATION
RAO CLASS:

ACT DATE: 11/18/2004
ACT USE LIMITATION:
LSP: RICHARD KOWA
ACT STATUS: REVISED STATEMENT OR TRANSMITTAL RECEIVED
ACT TYPE: PHASE 2
RAO CLASS:

ACT DATE: 2/26/2004
ACT USE LIMITATION:
LSP: RICHARD KOWA
ACT STATUS: WRITTEN PLAN RECEIVED
ACT TYPE: PHASE 4
RAO CLASS:

Environmental FirstSearch
Site Detail Report

Target Property: 183 TURNPIKE ROAD
WESTBOROUGH MA 01581

JOB: 05-213212

STATE

SEARCH ID: 12 **DIST/DIR:** 0.87 NE **ELEVATION:** 292 **MAP ID:** 9

NAME: NORTHBOROUGH OIL CO **REV:** 10/30/06
ADDRESS: 3 BAYLOR AVE **ID1:** 2-0015496
WESTBOROUGH MA 01581 **ID2:**
CONTACT: **STATUS:** TIERII
SOURCE: MA DEP **PHONE:**

SITE INFORMATION

STATUS: TIER 2 - A site/release receiving a total NRS score less than 350, unless the site meets any of the Tier 1 Inclusionary Criteria (CMR 40.0520(2)(a)). Permits are not required at Tier 2 sites/releases and response actions may be performed under the supervision of an LSP without prior DEP approval. All pre-1993 transition sites that have accepted waivers are categorically Tier 2 sites.

LTBI: **CONFIRMED:**
DELETED: **REMOVED:**

LOCATION TYPE: RESIDNTIAL,
SOURCE: AST;
SITE DESCRIPTION:

CHEMICALS

FUEL OIL 2 250 GAL

SITE ACTIONS

ACT DATE: 6/14/2006
ACT USE LIMITATION:
LSP: PHILIP MCBAI
ACT STATUS: TECHNICAL SCREEN AUDIT
ACT TYPE: IMMEDIATE RESPONSE ACTION
RAO CLASS:

ACT DATE: 12/30/2005
ACT USE LIMITATION:
LSP: PHILIP MCBAI
ACT STATUS: TECHNICAL SCREEN AUDIT
ACT TYPE: TIER CLASSIFICATION
RAO CLASS:

ACT DATE: 12/30/2005
ACT USE LIMITATION:
LSP: PHILIP MCBAI
ACT STATUS: TECHNICAL SCREEN AUDIT
ACT TYPE: PHASE 1
RAO CLASS:

ACT DATE: 2/1/2005
ACT USE LIMITATION:
LSP:
ACT STATUS: REPORTABLE RELEASE UNDER MGL 21E
ACT TYPE: RELEASE NOTIFICATION
RAO CLASS:

- *Continued on next page* -

Environmental FirstSearch
Site Detail Report

Target Property: 183 TURNPIKE ROAD
WESTBOROUGH MA 01581

JOB: 05-213212

STATE

SEARCH ID: 12 **DIST/DIR:** 0.87 NE **ELEVATION:** 292 **MAP ID:** 9

NAME:	NORTHBOROUGH OIL CO	REV:	10/30/06
ADDRESS:	3 BAYLOR AVE	ID1:	2-0015496
	WESTBOROUGH MA 01581	ID2:	
CONTACT:		STATUS:	TIERII
SOURCE:	MA DEP	PHONE:	

ACT DATE:	11/26/2004
ACT USE LIMITATION:	
LSP:	
ACT STATUS:	REPORTABLE RELEASE UNDER MGL 21E
ACT TYPE:	RELEASE DISPOSITION
RAO CLASS:	

Environmental FirstSearch
Site Detail Report

Target Property: 183 TURNPIKE ROAD
WESTBOROUGH MA 01581

JOB: 05-213212

STATE

SEARCH ID: 7	DIST/DIR: 0.88 NE	ELEVATION: 284	MAP ID: 10
NAME: FIBA TECHNOLOGIES	REV: 10/30/06		
ADDRESS: 97 TURNPIKE RD	ID1: 2-0013978		
WESTBOROUGH MA 01581	ID2:		
WORCESTER	STATUS: TIER1C		
CONTACT:	PHONE:		
SOURCE: MA DEP			

SITE INFORMATION

STATUS: TIER 1C - A site/release receiving a total NRS score less than 450 and equal to or greater than 350. A site/release receiving a total NRS score of less than 350, but which meets any of the Tier 1 Inclusionary Criteria specified in 310 CMR 40.0520(2)(a), is also classified a Tier 1C. These sites/releases also require a permit, but response actions may be performed under the supervision of an LPS without prior DEP approval.

LTBI:	CONFIRMED:
DELETED:	REMOVED:

LOCATION TYPE:	COMMERCIAL,
SOURCE:	DRUMS;
SITE DESCRIPTION:	

CHEMICALS

UNKNOWN CHEMICAL OF UNKNOWN TYPE 55 GAL

SITE ACTIONS

ACT DATE: 3/20/2006

ACT USE LIMITATION:

LSP: 4589

ACT STATUS: AUDIT INSPECTION

ACT TYPE: PHASE 4

RAO CLASS:

ACT DATE: 11/30/2005

ACT USE LIMITATION:

LSP: 4589

ACT STATUS: COMPLETION STATEMENT RECEIVED

ACT TYPE: PHASE 3

RAO CLASS:

ACT DATE: 9/24/2004

ACT USE LIMITATION:

LSP: THOMAS LUBY

ACT STATUS: TECHNICAL SCREEN AUDIT

ACT TYPE: PHASE 1

RAO CLASS:

ACT DATE: 9/24/2004

ACT USE LIMITATION:

LSP: THOMAS LUBY

ACT STATUS: TECHNICAL SCREEN AUDIT

ACT TYPE: TIER CLASSIFICATION

RAO CLASS:

- Continued on next page -

Environmental FirstSearch
Site Detail Report

Target Property: 183 TURNPIKE ROAD
WESTBOROUGH MA 01581

JOB: 05-213212

STATE

SEARCH ID: 7 **DIST/DIR:** 0.88 NE **ELEVATION:** 284 **MAP ID:** 10

NAME: FIBA TECHNOLOGIES **REV:** 10/30/06
ADDRESS: 97 TURNPIKE RD **ID1:** 2-0013978
WESTBOROUGH MA 01581 **ID2:**
WORCESTER **STATUS:** TIER1C
CONTACT: **PHONE:**
SOURCE: MA DEP

ACT DATE: 4/17/2002
ACT USE LIMITATION:
LSP: THOMAS LUBY
ACT STATUS: COMPLETION STATEMENT RECEIVED
ACT TYPE: IMMEDIATE RESPONSE ACTION
RAO CLASS:

ACT DATE: 11/30/2005
ACT USE LIMITATION:
LSP: 4589
ACT STATUS: COMPLETION STATEMENT RECEIVED
ACT TYPE: PHASE 2
RAO CLASS:

ACT DATE: 9/6/2001
ACT USE LIMITATION:
LSP: THOMAS LUBY
ACT STATUS: REPORTABLE RELEASE UNDER MGL 21E
ACT TYPE: RELEASE DISPOSITION
RAO CLASS:

ACT DATE: 10/18/2001
ACT USE LIMITATION:
LSP:
ACT STATUS: REPORTABLE RELEASE UNDER MGL 21E
ACT TYPE: RELEASE NOTIFICATION
RAO CLASS:

Environmental FirstSearch
Site Detail Report

Target Property: 183 TURNPIKE ROAD
WESTBOROUGH MA 01581

JOB: 05-213212

STATE

SEARCH ID: 9	DIST/DIR: 0.88 SE	ELEVATION: 291	MAP ID: 11
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NAME: MALDONADO RESIDENCE	REV: 12/15/09
ADDRESS: 15 SHEPHERD RD	ID1: 2-0015782
WESTBOROUGH MA 01581	ID2:
	STATUS: TIERII
CONTACT:	PHONE:
SOURCE: MA DEP	

SITE INFORMATION

STATUS: TIER 2 - A site/release receiving a total NRS score less than 350, unless the site meets any of the Tier 1 Inclusionary Criteria (CMR 40.0520(2)(a)). Permits are not required at Tier 2 sites/releases and response actions may be performed under the supervision of an LSP without prior DEP approval. All pre-1993 transition sites that have accepted waivers are categorically Tier 2 sites.

STATUS: TIER 2 - A site/release receiving a total NRS score less than 350, unless the site meets any of the Tier 1 Inclusionary Criteria (CMR 40.0520(2)(a)). Permits are not required at Tier 2 sites/releases and response actions may be performed under the supervision of an LSP without prior DEP approval. All pre-1993 transition sites that have accepted waivers are categorically Tier 2 sites.

LTBI:	CONFIRMED:
DELETED:	REMOVED:

LOCATION TYPE:	RESIDNTIAL,
SOURCE:	AST;
SITE DESCRIPTION:	

CHEMICALS

FUEL OIL 200 GAL

SITE ACTIONS

LSP INVOLVED:	5448
ACT DATE:	6/11/2005
ACT USE LIMITATION:	
ACT STATUS:	FLDD1A
ACT TYPE:	SITE VISIT OR COMPLIANCE INSPECTION
RAO CLASS:	
ACT DATE:	6/11/2005
ACT USE LIMITATION:	REPORTABLE RELEASE UNDER MGL 21E
ACT STATUS:	RELEASE NOTIFICATION
ACT TYPE:	
RAO CLASS:	
ACT DATE:	6/11/2005
ACT USE LIMITATION:	REPORTABLE RELEASE UNDER MGL 21E
ACT STATUS:	RELEASE DISPOSITION
ACT TYPE:	
RAO CLASS:	
ACT DATE:	6/11/2005
ACT USE LIMITATION:	ORAL APPROVAL OF PLAN
ACT STATUS:	IMMEDIATE RESPONSE ACTION
ACT TYPE:	
RAO CLASS:	

- *Continued on next page* -

Environmental FirstSearch
Site Detail Report

Target Property: 183 TURNPIKE ROAD
WESTBOROUGH MA 01581

JOB: 05-213212

STATE

SEARCH ID: 9	DIST/DIR: 0.88 SE	ELEVATION: 291	MAP ID: 11
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NAME: MALDONADO RESIDENCE	REV: 12/15/09
ADDRESS: 15 SHEPHERD RD	ID1: 2-0015782
WESTBOROUGH MA 01581	ID2:
	STATUS: TIERII
CONTACT:	PHONE:
SOURCE: MA DEP	

ACT DATE:	6/11/2005
ACT USE LIMITATION:	
ACT STATUS:	FLDISS
ACT TYPE:	NOTICE OF RESPONSIBILITY
RAO CLASS:	
ACT DATE:	7/14/2005
ACT USE LIMITATION:	
ACT STATUS:	ISSUED
ACT TYPE:	NOTICE OF RESPONSIBILITY
RAO CLASS:	
ACT DATE:	8/12/2005
ACT USE LIMITATION:	
ACT STATUS:	WRITTEN PLAN RECEIVED
ACT TYPE:	IMMEDIATE RESPONSE ACTION
RAO CLASS:	
ACT DATE:	9/6/2005
ACT USE LIMITATION:	
ACT STATUS:	WRITTEN APPROVAL OF PLAN
ACT TYPE:	IMMEDIATE RESPONSE ACTION
RAO CLASS:	
ACT DATE:	10/5/2005
ACT USE LIMITATION:	
ACT STATUS:	STATUS REPORT RECEIVED
ACT TYPE:	IMMEDIATE RESPONSE ACTION
RAO CLASS:	
ACT DATE:	12/16/2005
ACT USE LIMITATION:	
ACT STATUS:	TECHNICAL SCREEN AUDIT
ACT TYPE:	IMMEDIATE RESPONSE ACTION
RAO CLASS:	
ACT DATE:	2/10/2006
ACT USE LIMITATION:	
ACT STATUS:	FLDRAN
ACT TYPE:	SITE VISIT OR COMPLIANCE INSPECTION
RAO CLASS:	
ACT DATE:	3/20/2006
ACT USE LIMITATION:	
ACT STATUS:	STATUS REPORT RECEIVED
ACT TYPE:	IMMEDIATE RESPONSE ACTION
RAO CLASS:	
ACT DATE:	3/24/2006
ACT USE LIMITATION:	
ACT STATUS:	TECHNICAL SCREEN AUDIT
ACT TYPE:	IMMEDIATE RESPONSE ACTION
RAO CLASS:	

- *Continued on next page* -

Environmental FirstSearch
Site Detail Report

Target Property: 183 TURNPIKE ROAD
WESTBOROUGH MA 01581

JOB: 05-213212

STATE

SEARCH ID: 9	DIST/DIR: 0.88 SE	ELEVATION: 291	MAP ID: 11
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NAME: MALDONADO RESIDENCE	REV: 12/15/09
ADDRESS: 15 SHEPHERD RD	ID1: 2-0015782
WESTBOROUGH MA 01581	ID2:
	STATUS: TIERII
CONTACT:	PHONE:
SOURCE: MA DEP	

ACT DATE: 3/27/2006

ACT USE LIMITATION:

ACT STATUS: FOLLOW UP OFFICE RESPONSE

ACT TYPE: SITE VISIT OR COMPLIANCE INSPECTION

RAO CLASS:

ACT DATE: 4/11/2006

ACT USE LIMITATION:

ACT STATUS: ALSENT

ACT TYPE: NOTICE OF RESPONSIBILITY

RAO CLASS:

ACT DATE: 7/6/2006

ACT USE LIMITATION:

ACT STATUS: FOLLOW UP OFFICE RESPONSE

ACT TYPE: SITE VISIT OR COMPLIANCE INSPECTION

RAO CLASS:

ACT DATE: 8/2/2006

ACT USE LIMITATION:

ACT STATUS: STATUS REPORT RECEIVED

ACT TYPE: IMMEDIATE RESPONSE ACTION

RAO CLASS:

ACT DATE: 8/2/2006

ACT USE LIMITATION:

ACT STATUS: MODIFIED REVISED OR UPDATED PLAN RECEIVED

ACT TYPE: IMMEDIATE RESPONSE ACTION

RAO CLASS:

ACT DATE: 8/8/2006

ACT USE LIMITATION:

ACT STATUS: TECHNICAL SCREEN AUDIT

ACT TYPE: IMMEDIATE RESPONSE ACTION

RAO CLASS:

ACT DATE: 8/17/2006

ACT USE LIMITATION:

ACT STATUS: COMPLETION STATEMENT RECEIVED

ACT TYPE: PHASE 1

RAO CLASS:

ACT DATE: 8/17/2006

ACT USE LIMITATION:

ACT STATUS: TIER 2 CLASSIFICATION

ACT TYPE: TIER CLASSIFICATION

RAO CLASS:

ACT DATE: 8/17/2006

ACT USE LIMITATION:

ACT STATUS: SCOPE OF WORK RECEIVED

ACT TYPE: PHASE 2

- More Details Exist For This Site; Max Page Limit Reached -

Environmental FirstSearch
Site Detail Report

Target Property: 183 TURNPIKE ROAD
WESTBOROUGH MA 01581

JOB: 05-213212

STATE

SEARCH ID: 16	DIST/DIR: 0.91 SE	ELEVATION: 282	MAP ID: 12
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NAME: SUNSHINE CLEANERS	REV: 1/29/03
ADDRESS: 45 E MAIN ST	ID1: 2-0000878
WESTBOROUGH MA 01581	ID2:
	STATUS: RAO
CONTACT:	PHONE:
SOURCE: MA DEP	

SITE INFORMATION

STATUS: TIER 2 - A site/release receiving a total NRS score less than 350, unless the site meets any of the Tier 1 Inclusionary Criteria (CMR 40.0520(2)(a)). Permits are not required at Tier 2 sites/releases and response actions may be performed under the supervision of an LSP without prior DEP approval. All pre-1993 transition sites that have accepted waivers are categorically Tier 2 sites.

LTBI:	10/15/1992	CONFIRMED:	10/15/1992
DELETED:		REMOVED:	

CATEGORY:	NONE	21E STATUS:	TIER 2
DATE:	10/15/1992	21E DATE:	6/5/2000
PHASE:	PHASE IV	HAZMAT TYPE:	

RAO CLASS:

LOCATION TYPE:	DRYCLEANER,
SOURCE:	UNKNOWN;
SITE DESCRIPTION:	CHLORINATED SOLVENTS PRESENT; GROUNDWATER RELEASE; RELEASE TO SOIL;

OTHER CONTAMINATION: POTENTIAL DUMPING OR DRY WELL

OTHER RELEASES:

OTHER PROBLEMS:

OTHER TYPE OF SITE: DRY CLEANER

CHEMICALS

UNKNOWN CHEMICAL OF UNKNOWN TYPE

SITE ACTIONS

TS DATE:	10/17/2000
AUL RESTRICTION:	
LSP:	JAMES D O'BRIEN
RA STATUS:	COMPLETION STATEMENT RECEIVED
RAS TYPE:	PHASEIII
RAO CLASS:	

TS DATE:	1/18/2001
AUL RESTRICTION:	
LSP:	JAMES D O'BRIEN
RA STATUS:	RIPRCVD
RAS TYPE:	PHASEIV
RAO CLASS:	

TS DATE:	8/17/2000
AUL RESTRICTION:	

- Continued on next page -

Environmental FirstSearch
Site Detail Report

Target Property: 183 TURNPIKE ROAD
WESTBOROUGH MA 01581

JOB: 05-213212

STATE

SEARCH ID: 16	DIST/DIR: 0.91 SE	ELEVATION: 282	MAP ID: 12
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NAME: SUNSHINE CLEANERS	REV: 1/29/03
ADDRESS: 45 E MAIN ST	ID1: 2-0000878
WESTBOROUGH MA 01581	ID2:
	STATUS: RAO
CONTACT:	PHONE:
SOURCE: MA DEP	

LSP:	JAMES D O'BRIEN
RA STATUS:	SCOPE OF WORK RECEIVED
RAS TYPE:	PHASEII
RAO CLASS:	

TS DATE:	6/5/2000
AUL RESTRICTION:	
LSP:	JAMES D O'BRIEN
RA STATUS:	
RAS TYPE:	TIER2EXT
RAO CLASS:	

TS DATE:	6/5/2000
AUL RESTRICTION:	
LSP:	JAMES D O'BRIEN
RA STATUS:	TRANSMITTAL RECEIVED
RAS TYPE:	TIER2TRANS
RAO CLASS:	

TS DATE:	10/10/2000
AUL RESTRICTION:	
LSP:	JAMES D O'BRIEN
RA STATUS:	COMPLETION STATEMENT RECEIVED
RAS TYPE:	PHASEII
RAO CLASS:	

TS DATE:	10/10/1996
AUL RESTRICTION:	
LSP:	THOMAS WILLIAMSON
RA STATUS:	TRANSMITTAL RECEIVED
RAS TYPE:	LSP-FA
RAO CLASS:	

ACT DATE:	10/10/2000
ACT USE LIMITATION:	
LSP:	
ACT STATUS:	COMPLETION STATEMENT RECEIVED
ACT TYPE:	PHASE 2
RAO TYPE:	

ACT DATE:	10/17/2000
ACT USE LIMITATION:	
LSP:	
ACT STATUS:	COMPLETION STATEMENT RECEIVED
ACT TYPE:	PHASE 3
RAO TYPE:	

- *Continued on next page* -

Environmental FirstSearch
Site Detail Report

Target Property: 183 TURNPIKE ROAD
WESTBOROUGH MA 01581

JOB: 05-213212

STATE

SEARCH ID: 16 **DIST/DIR:** 0.91 SE **ELEVATION:** 282 **MAP ID:** 12

NAME: SUNSHINE CLEANERS **REV:** 1/29/03
ADDRESS: 45 E MAIN ST **ID1:** 2-0000878
WESTBOROUGH MA 01581 **ID2:**
CONTACT: **STATUS:** RAO
SOURCE: MA DEP **PHONE:**

ACT DATE: 06/05/2000
ACT USE LIMITATION:
LSP:
ACT STATUS: TIER 2 CLASSIFICATION
ACT TYPE: TIER CLASSIFICATION
RAO TYPE:

ACT DATE: 07/02/1992
ACT USE LIMITATION:
LSP:
ACT STATUS: VALID TRANSITION SITE
ACT TYPE: RELEASE DISPOSITION
RAO TYPE:

ACT DATE: 01/18/2001
ACT USE LIMITATION:
LSP:
ACT STATUS: WRITTEN PLAN RECEIVED
ACT TYPE: PHASE 4
RAO TYPE:

Environmental FirstSearch
Site Detail Report

Target Property: 183 TURNPIKE ROAD
WESTBOROUGH MA 01581

JOB: 05-213212

STATE

SEARCH ID: 6	DIST/DIR: 0.95 SE	ELEVATION: 299	MAP ID: 13
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NAME: EXXON STATION FMR	REV: 1/29/01
ADDRESS: 42 E MAIN ST	ID1: 2-0000850
WESTBOROUGH MA 01581	ID2:
	STATUS: REMOPS
CONTACT:	PHONE:
SOURCE: MA DEP	

SITE INFORMATION

LTBI:	4/15/92	CONFIRMED:	4/15/92
DELETED:		REMOVED:	

CATEGORY:		21E STATUS:	RAORETRACT
DATE:	4/15/92	21E DATE:	2/18/00
PHASE:	PHASE V	HAZMAT TYPE:	OIL

RAO CLASS:

LOCATION TYPE:

SOURCE:

SITE DESCRIPTION: GROUNDWATER RELEASE; CONTAINED IN A LUST; FORMER; GASOLINE PRESENT; GAS STATION; RELEASE TO SOIL;

OTHER CONTAMINATION:

OTHER RELEASES:

OTHER PROBLEMS:

OTHER TYPE OF SITE:

SITE ACTIONS

TS DATE: 19971125 00:00:00

AUL RESTRICTION:

LSP: DONALD POMEROY

RA STATUS: TRANSMITTAL RECEIVED

RAS TYPE: TIER2EXT

RAO CLASS:

TS DATE: 19980528 00:00:00

AUL RESTRICTION:

LSP: DONALD POMEROY

RA STATUS: COMPLETION STATEMENT RECEIVED

RAS TYPE: PHASEIII

RAO CLASS:

TS DATE: 19980528 00:00:00

AUL RESTRICTION:

LSP: DONALD POMEROY

RA STATUS: RIPRCVD

RAS TYPE: PHASEIV

RAO CLASS:

TS DATE: 19980528 00:00:00

AUL RESTRICTION:

NON

- Continued on next page -

Environmental FirstSearch
Site Detail Report

Target Property: 183 TURNPIKE ROAD
 WESTBOROUGH MA 01581

JOB: 05-213212

STATE

SEARCH ID: 6	DIST/DIR: 0.95 SE	ELEVATION: 299	MAP ID: 13
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NAME: EXXON STATION FMR	REV: 1/29/01
ADDRESS: 42 E MAIN ST	ID1: 2-0000850
WESTBOROUGH MA 01581	ID2:
	STATUS: REMOPS
	PHONE:

CONTACT:	
SOURCE: MA DEP	

LSP:	DONALD POMEROY
RA STATUS:	RAO STATEMENT RECEIVED
RAS TYPE:	RAO: RESPONSE ACTION OUTCOME
RAO CLASS:	C - A TEMPORARY SOLUTION, WHICH ENSURES THE ELIMINATION OF ANY SUBSTANTIAL HAZARD, HAS BEEN ACHIEVED AT THE DISPOSAL SITE.

TS DATE: 19970804 00:00:00

AUL RESTRICTION:

LSP:	DONALD POMEROY
RA STATUS:	COMPLETION STATEMENT RECEIVED
RAS TYPE:	PHASEII
RAO CLASS:	

TS DATE: 20000218 00:00:00

AUL RESTRICTION:

LSP:	BRUCE ROSS
RA STATUS:	REMEDY OPERATION STATUS SUBMITTAL RECEIVED
RAS TYPE:	PHASEV: PHASE V
RAO CLASS:	

TS DATE: 20000218 00:00:00

AUL RESTRICTION:

LSP:	BRUCE ROSS
RA STATUS:	COMPLETION STATEMENT RECEIVED
RAS TYPE:	PHASEIV
RAO CLASS:	

TS DATE: 20000218 00:00:00

AUL RESTRICTION:

LSP:	BRUCE ROSS
RA STATUS:	ASBLT
RAS TYPE:	PHASEIV
RAO CLASS:	

TS DATE: 20000218 00:00:00

AUL RESTRICTION:

LSP:	RETRACT
RA STATUS:	RAO: RESPONSE ACTION OUTCOME
RAS TYPE:	
RAO CLASS:	

TS DATE: 19950926 00:00:00

AUL RESTRICTION:

LSP:	DONALD POMEROY
RA STATUS:	STATUS REPORT RECEIVED
RAS TYPE:	IRA: IMMEDIATE RESPONSE ACTION
RAO CLASS:	

- Continued on next page -

Environmental FirstSearch
Site Detail Report

Target Property: 183 TURNPIKE ROAD
WESTBOROUGH MA 01581

JOB: 05-213212

STATE

SEARCH ID: 6 **DIST/DIR:** 0.95 SE **ELEVATION:** 299 **MAP ID:** 13

NAME:	EXXON STATION FMR	REV:	1/29/01
ADDRESS:	42 E MAIN ST WESTBOROUGH MA 01581	ID1:	2-0000850
CONTACT:		ID2:	
SOURCE:	MA DEP	STATUS:	REMOPS
		PHONE:	

Environmental FirstSearch
Site Detail Report

Target Property: 183 TURNPIKE ROAD
WESTBOROUGH MA 01581

JOB: 05-213212

STATE

SEARCH ID: 13	DIST/DIR: 0.97 SE	ELEVATION: 315	MAP ID: 14
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NAME: NYNEX FACILITY	REV: 1/29/01
ADDRESS: 25 SUMMER ST	ID1: 2-0010895
WESTBOROUGH MA 01581	ID2:
	STATUS: RAO
CONTACT:	PHONE:
SOURCE: MA DEP	

SITE INFORMATION

LTBI:	CONFIRMED:
DELETED:	REMOVED:

CATEGORY:	TWO HR	21E STATUS:	RAO
DATE:	8/25/95	21E DATE:	8/26/97
PHASE:	PHASE II	HAZMAT TYPE:	OIL

RAO CLASS: A3 - A PERMANENT SOLUTION HAS BEEN ACHIEVED: CONTAMINATION HAS NOT BEEN REDUCED TO BACKGROUND AND AN ACTIVITY AND USE LIMITATION (AUL) HAS BEEN IMPLEMENTED

LOCATION TYPE:	COMMERCIAL,
SOURCE:	UST;
SITE DESCRIPTION:	CONTAINED IN A LUST; COMMERCIAL SITE; RESIDENTIAL SITE;

OTHER CONTAMINATION:	
OTHER RELEASES:	DIESEL FUEL
OTHER PROBLEMS:	STORM DRAIN AND PAVED SURFACE RELEASE
OTHER TYPE OF SITE:	

SITE ACTIONS

TS DATE:	19961206 00:00:00
AUL RESTRICTION:	
LSP:	
RA STATUS:	RELATED TO A TRANSITION SITE (NOT TIER CLASSIFIED)
RAS TYPE:	FEND
RAO CLASS:	

TS DATE:	19960830 00:00:00
AUL RESTRICTION:	
LSP:	MARK WORTHINGTON
RA STATUS:	TRANSMITTAL RECEIVED
RAS TYPE:	TCLASS: TIER CLASSIFICATION
RAO CLASS:	

ACT DATE:	07/31/2000
ACT USE LIMITATION:	NOTICE
LSP:	MARK WORTHINGTON
ACT STATUS:	ACTION AUDITED
ACT TYPE:	RAO: RESPONSE ACTION OUTCOME
RAO TYPE:	A3 - A PERMANENT SOLUTION HAS BEEN ACHIEVED: CONTAMINATION HAS NOT BEEN REDUCED TO BACKGROUND AND AN ACTIVITY AND USE LIMITATION (AUL) HAS BEEN IMPLEMENTED

ACT DATE: 07/31/2000

- Continued on next page -

Environmental FirstSearch
Site Detail Report

Target Property: 183 TURNPIKE ROAD
WESTBOROUGH MA 01581

JOB: 05-213212

STATE

SEARCH ID: 13 **DIST/DIR:** 0.97 SE **ELEVATION:** 315 **MAP ID:** 14

NAME: NYNEX FACILITY **REV:** 1/29/01
ADDRESS: 25 SUMMER ST **ID1:** 2-0010895
WESTBOROUGH MA 01581 **ID2:**
CONTACT: **STATUS:** RAO
SOURCE: MA DEP **PHONE:**

ACT USE LIMITATION:
LSP: MARK WORTHINGTON
ACT STATUS: ACTION AUDITED
ACT TYPE: AUL: ACTIVITY AND USE LIMITATION
RAO TYPE:

ACT DATE: 07/31/2000
ACT USE LIMITATION:
LSP: MARK WORTHINGTON
ACT STATUS: ACTION AUDITED
ACT TYPE: TCLASS: TIER CLASSIFICATION
RAO TYPE:

ACT DATE: 07/31/2000
ACT USE LIMITATION:
LSP: MARK WORTHINGTON
ACT STATUS: ACTION AUDITED
ACT TYPE: PHASEI: PHASE I
RAO TYPE:

ACT DATE: 07/31/2000
ACT USE LIMITATION:
LSP: MARK WORTHINGTON
ACT STATUS: ACTION AUDITED
ACT TYPE: IRA: IMMEDIATE RESPONSE ACTION
RAO TYPE:

Environmental FirstSearch
Site Detail Report

Target Property: 183 TURNPIKE ROAD
WESTBOROUGH MA 01581

JOB: 05-213212

STATE

SEARCH ID:	8	DIST/DIR:	1.00 SE	ELEVATION:	309	MAP ID:	15
NAME:	FORMER VEE ARC BUILDING	REV:	12/15/09				
ADDRESS:	50 MILK ST WESTBOROUGH MA 01581 WORCESTER	ID1:	2-0016312				
CONTACT:		ID2:					
SOURCE:	MA DEP	STATUS:	TIERII				
		PHONE:					

SITE INFORMATION

STATUS: TIER 2 - A site/release receiving a total NRS score less than 350, unless the site meets any of the Tier 1 Inclusionary Criteria (CMR 40.0520(2)(a)). Permits are not required at Tier 2 sites/releases and response actions may be performed under the supervision of an LSP without prior DEP approval. All pre-1993 transition sites that have accepted waivers are categorically Tier 2 sites.

STATUS: TIER 2 - A site/release receiving a total NRS score less than 350, unless the site meets any of the Tier 1 Inclusionary Criteria (CMR 40.0520(2)(a)). Permits are not required at Tier 2 sites/releases and response actions may be performed under the supervision of an LSP without prior DEP approval. All pre-1993 transition sites that have accepted waivers are categorically Tier 2 sites.

LOCATION TYPE:

SOURCE:

SITE DESCRIPTION:

CHEMICALS

TRICHLOROETHENE 1800 MG/KG
TRICHLOROETHENE 37 UG/L

SITE ACTIONS

LSP INVOLVED: SCOTT PARKER

ACT DATE: 7/24/2006

ACT USE LIMITATION:

ACT STATUS: REPORTABLE RELEASE UNDER MGL 21E
ACT TYPE: RELEASE DISPOSITION
RAO CLASS:

ACT DATE: 7/24/2006

ACT USE LIMITATION:

ACT STATUS: REPORTABLE RELEASE UNDER MGL 21E
ACT TYPE: RELEASE NOTIFICATION
RAO CLASS:

ACT DATE: 8/15/2006

ACT USE LIMITATION:

ACT STATUS: ISSUED
ACT TYPE: NOTICE OF RESPONSIBILITY
RAO CLASS:

ACT DATE: 6/1/2007

ACT USE LIMITATION:

ACT STATUS: ALSENT
ACT TYPE: NOTICE OF RESPONSIBILITY
RAO CLASS:

ACT DATE: 7/24/2007

ACT USE LIMITATION:

ACT STATUS: SCOPE OF WORK RECEIVED

- Continued on next page -

Environmental FirstSearch
Site Detail Report

Target Property: 183 TURNPIKE ROAD
WESTBOROUGH MA 01581

JOB: 05-213212

STATE

SEARCH ID: 8 **DIST/DIR:** 1.00 SE **ELEVATION:** 309 **MAP ID:** 15

NAME: FORMER VEE ARC BUILDING
ADDRESS: 50 MILK ST
WESTBOROUGH MA 01581
WORCESTER
CONTACT:
SOURCE: MA DEP

REV: 12/15/09
ID1: 2-0016312
ID2:
STATUS: TIERII
PHONE:

ACT TYPE: PHASE 2
RAO CLASS:

ACT DATE: 7/24/2007
ACT USE LIMITATION:
ACT STATUS: COMPLETION STATEMENT RECEIVED
ACT TYPE: PHASE 1
RAO CLASS:

ACT DATE: 7/24/2007
ACT USE LIMITATION:
ACT STATUS: TIER 2 CLASSIFICATION
ACT TYPE: TIER CLASSIFICATION
RAO CLASS:

ACT DATE: 7/24/2007
ACT USE LIMITATION:
ACT STATUS: TRANSMITTAL RECEIVED
ACT TYPE: TIER CLASSIFICATION
RAO CLASS:

ACT DATE: 9/26/2007
ACT USE LIMITATION:
ACT STATUS: TECHNICAL SCREEN AUDIT
ACT TYPE: PHASE 1
RAO CLASS:

ACT DATE: 7/28/2009
ACT USE LIMITATION:
ACT STATUS: COMPLETION STATEMENT RECEIVED
ACT TYPE: PHASE 2
RAO CLASS:

Environmental FirstSearch
Street Name Report for Streets within .25 Mile(s) of Target Property

Target Property: 183 TURNPIKE ROAD
WESTBOROUGH MA 01581

JOB: 05-213212

Street Name	Dist/Dir	Street Name	Dist/Dir
Ashley Way	0.18 SW		
Boston Worcester Tpk	0.01 SE		
Bridle Ln	0.08 NW		
Chauncy St	0.22 NE		
Deerfield Way	0.16 SW		
Oak St	0.06 NE		
State Highway 9	0.01 SE		
Turnpike Rd	0.01 SE		
Woodman Ave	0.06 SE		



HISTORICAL FIRE INSURANCE MAPS

NO MAPS AVAILABLE

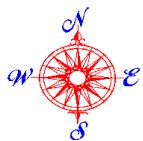
**01-14-10
05-213212
183 TURNPIKE ROAD
WESTBOROUGH MA 01581**

A search of FirstSearch Technology Corporation's proprietary database of historical fire insurance map availability confirmed that there are NO MAPS AVAILABLE for the Subject Location as shown above.

FirstSearch Technology Corporation's proprietary database of historical fire insurance map availability represents abstracted information from the Sanborn® Map Company obtained through online access to the U.S. Library of Congress via local libraries.

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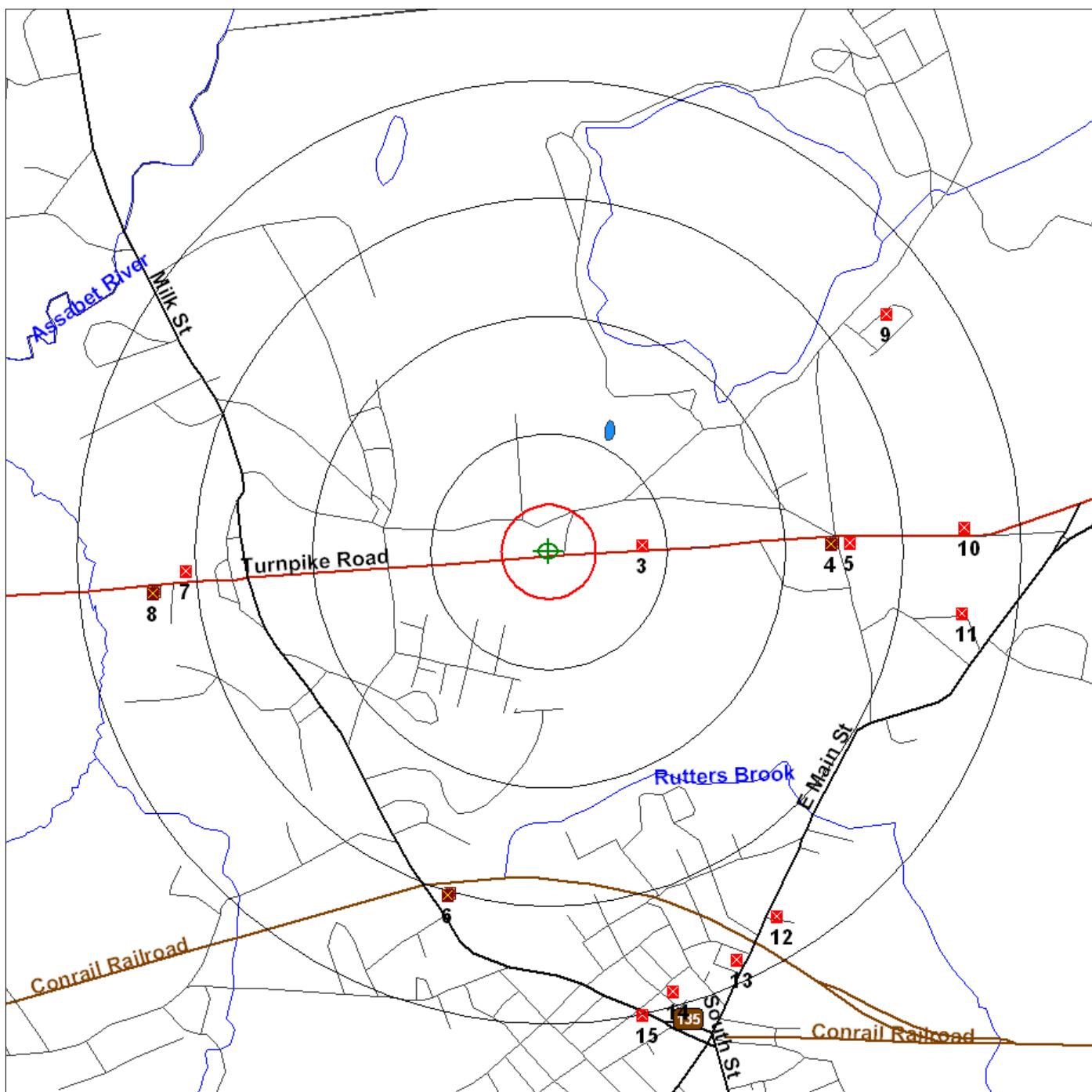
Environmental FirstSearch

1 Mile Radius

ASTM Map: NPL, RCRACOR, STATE Sites



183 TURNPIKE ROAD, WESTBOROUGH MA 01581



Source: 2005 U.S. Census TIGER Files





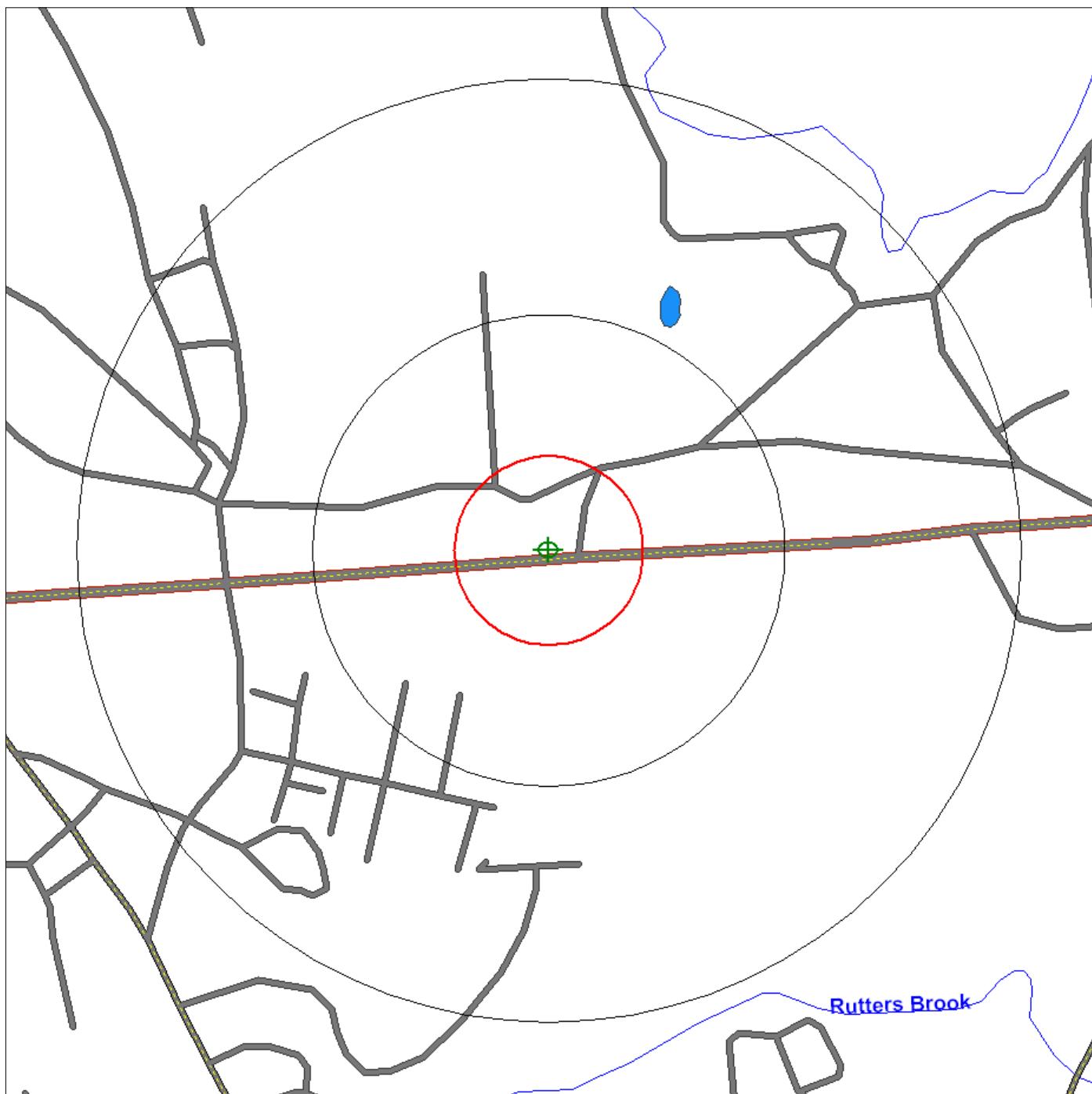
Environmental FirstSearch

.5 Mile Radius

ASTM Map: CERCLIS, RCRATSD, LUST, SWL

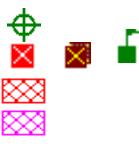


183 TURNPIKE ROAD, WESTBOROUGH MA 01581



Source: 2005 U.S. Census TIGER Files

Target Site (Latitude: 42.28462 Longitude: -71.6203)



Identified Site, Multiple Sites, Receptor

NPL, DELNPL, Brownfield, Solid Waste Landfill (SWL), Hazardous Waste

Triballand.....

Railroads

Black Rings Represent 1/4 Mile Radius; Red Ring Represents 500 ft. Radius

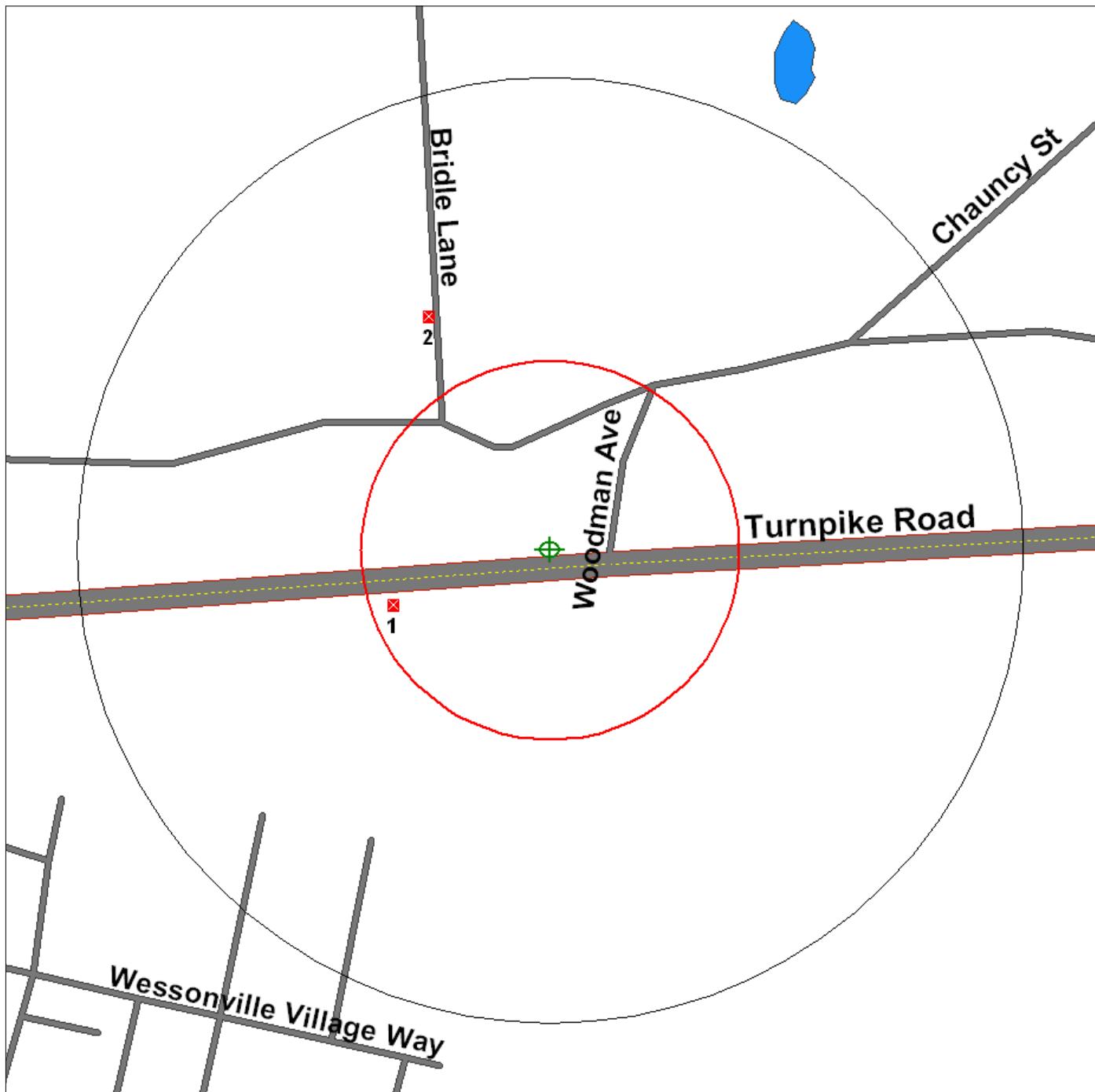


Environmental FirstSearch

.25 Mile Radius
ASTM Map: RCRAGEN, ERNS, UST



183 TURNPIKE ROAD, WESTBOROUGH MA 01581



Source: 2005 U.S. Census TIGER Files

Target Site (Latitude: 42.28462 Longitude: -71.6203)



Identified Site, Multiple Sites, Receptor

NPL, DELNPL, Brownfield, Solid Waste Landfill (SWL), Hazardous Waste

Triballand.....

Railroads

Black Rings Represent 1/4 Mile Radius; Red Ring Represents 500 ft. Radius

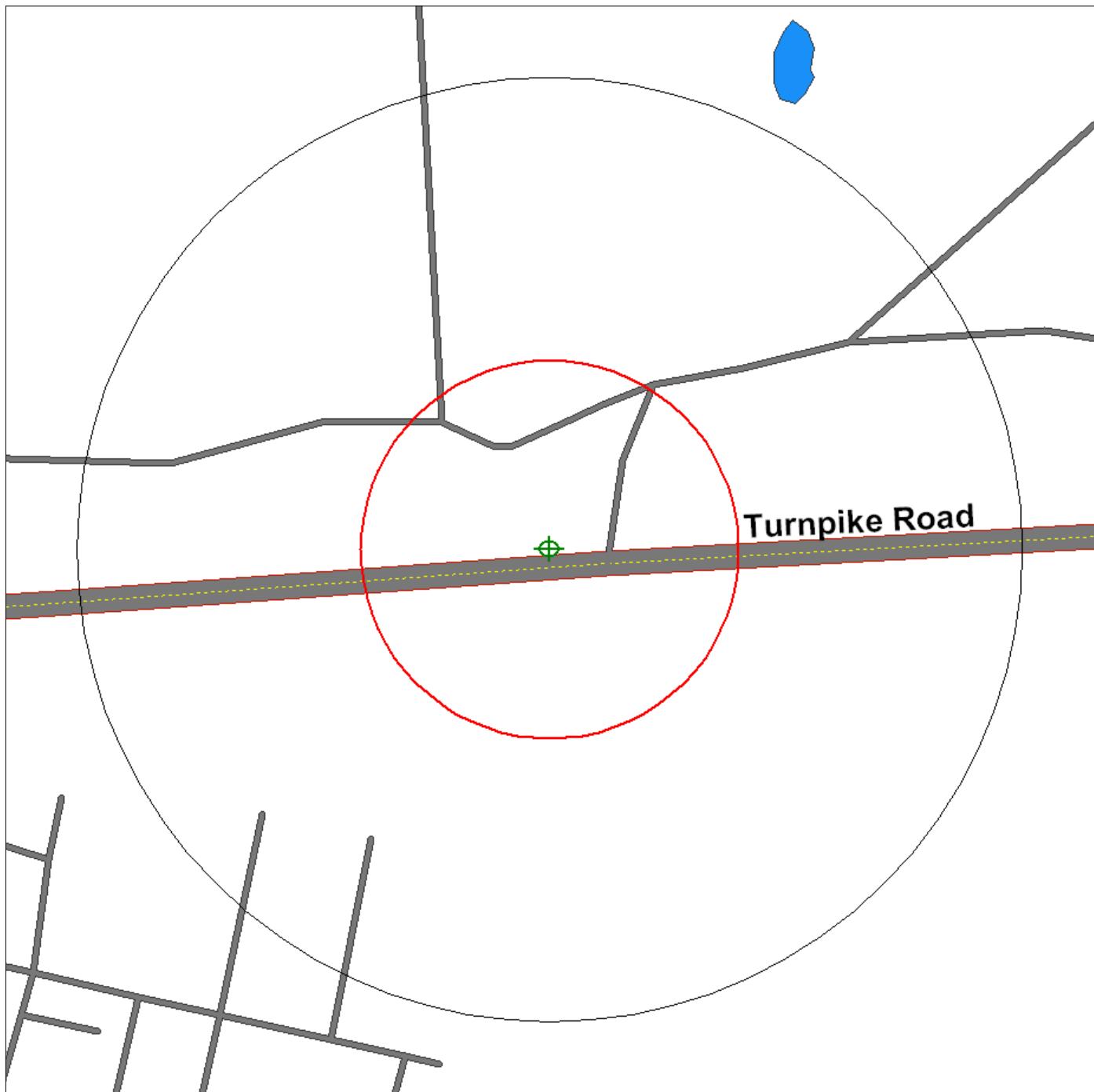


Environmental FirstSearch

.25 Mile Radius
Non-ASTM Map: No Sites Found



183 TURNPIKE ROAD, WESTBOROUGH MA 01581



Source: 2005 U.S. Census TIGER Files

Target Site (Latitude: 42.28462 Longitude: -71.6203)

Identified Site, Multiple Sites, Receptor

NPL, DELNPL, Brownfield, Solid Waste Landfill (SWL), Hazardous Waste

Triballand.....

National Historic Sites and Landmark Sites

Railroads

Black Rings Represent 1/4 Mile Radius; Red Ring Represents 500 ft. Radius



APPENDIX H



*10 State Street
Woburn, Ma. 01801*

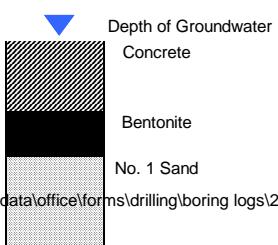
SOIL BORING and MONITORING WELL INSTALLATION LOG

BORING NO.:	B-1/MW-2		
DOCUMENT NO.:			
SHEET	1	OF	1

LOCATION

BORING COMPANY:	Drilllex	JOB NUMBER:	05-213212.00	SEE SITE PLAN					
BORING COMPANY ADDRESS:	West Boylston, MA.	PROJECT NAME:	Former Green Thumb Nursery						
FOREMAN:	Chris	2/2/2010	PROJECT ADDRESS:						
FOREMAN:	Jeremiah	2/16/2010	CLIENT NAME:						
ECS INSPECTOR:	E. Kaatz								
Groundwater		CASING	SAMPLER	CORE BARREL					
Date	Depth	Stabilization Time	TYPE						
2/2/2010	NA	NA	INSIDE DIAMETER	H.S.A. Split Spoon					
			HAMMER WEIGHT	1.5"					
			HAMMER FALL						
			NOTES:	Returned on 2/16/2010; with air hammer.					
Depth	Sample Number	Sample Depths	Penetration/ Recovery	Blows per 6" penetration	Strata Changes	Soil Descriptions	Well As Built	Field Testing (ppm)	Notes
0	S-1	0.5-2.5		NA	FINE SAND	Brown, Dry, FINE SAND, some gravel, trace silt. -No odor or staining.		0.0	
						Brown, dry, medium dense (frozen), FINE SAND, some medium sand, some silt, trace gravel. -No odor or staining.		0.0	
						Brown, dry, dense, MEDIUM SAND, some fine sand, some silt, trace medium to coarse gravel. H.S.A. refusal at 11.5 fbg.		4.8	
						Air hammer from 11.5 fbg to 13 fbg.			
10	S-3	10-12	24/12	13-15-17-51	BOULDER				
15						H.S.A. from 13 fbg to 17 fbg.			
15						Air hammer from 17 fbg to 18.5 fbg.			
15						H.S.A. from 18.5 fbg to 20 fbg. -groundwater encountered at 19.0 fbg			
20					BOULDER	Air hammer from 20 fbg to 24 fbg.			
						B.O.H. @ 24 fbg			

1. Field testing values represent total volatile organic vapors (referenced to a benzene standard) measured in the headspace of a 8 oz. drillers jar , with a Phocheck 1000+. Results reported in parts per million by volume (ppmv).
 2. Soil samples collected by using a truck-mounted hollow stem auger drill rig with a 24-inch stainless steel split spoon sampler with a 1.5-inch inside diameter.
 3. Groundwater encountered at approximately 19 feet below grade.





*10 State Street
Woburn, Ma. 01801*

SOIL BORING and MONITORING WELL INSTALLATION LOG

BORING NO.:	B-2		
DOCUMENT NO.:			
SHEET	1	OF	1
LOCATION			

LOCATION

BORING COMPANY:	Drilllex	JOB NUMBER:	05-213212.00
BORING COMPANY ADDRESS:	West Boylston, MA.	PROJECT NAME:	Former Green Thumb Nursery
FOREMAN:	Chris	PROJECT ADDRESS:	183 Turnpike Road
ECS INSPECTOR:	E. Kaatz	CLIENT NAME:	Warren Equities

Groundwater Casing Sampler Core Bar

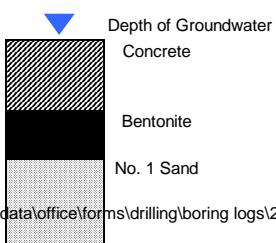
Date Depth Stabilization Time TYPE H.S.A. Split Spoon

6/2/2012 NA NA INSIDE DIAMETER 1.5"

Groundwater				CASING	SAMPLER	CORE BARRELS
Date	Depth	Stabilization Time	TYPE	H.S.A.	Split Spoon	
2010	NA	NA	INSIDE DIAMETER		1.5"	
			HAMMER WEIGHT			
			HAMMER FALL			
			NOTES:	Returned on 2/16/2010; with air hammer.		

SEE SITE PLAN

1. Field testing values represent total volatile organic vapors (referenced to a benzene standard) measured in the headspace of a 8 oz. drillers jar , with a Phocheck 1000+. Results reported in parts per million by volume (ppmv).
 2. Soil samples collected by using a truck-mounted hollow stem auger drill rig with a 24-inch stainless steel split spoon sampler with a 1.5-inch inside diameter.
 3. Groundwater was not encountered.

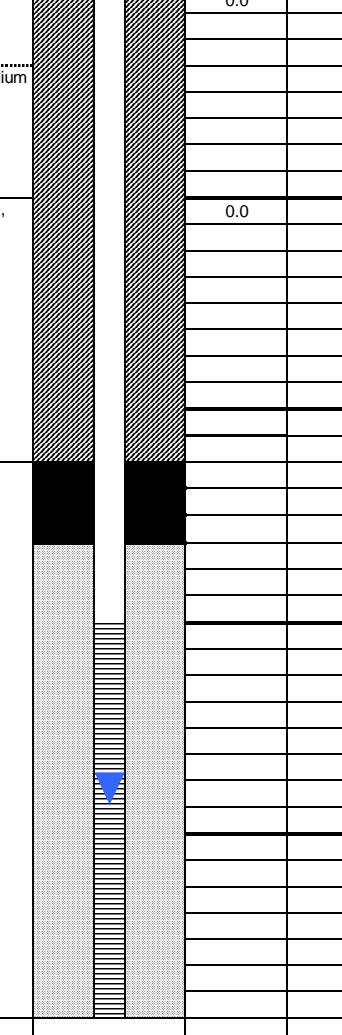


 <i>10 State Street</i> <i>Woburn, Ma. 01801</i>			SOIL BORING and MONITORING WELL INSTALLATION LOG			BORING NO.:	B-3																																				
						DOCUMENT NO.:																																					
			SHEET	1	OF	1	LOCATION																																				
			SEE SITE PLAN																																								
BORING COMPANY: Drillex BORING COMPANY ADDRESS: West Boylston, MA. FOREMAN: Chris ECS INSPECTOR: E. Kaatz			JOB NUMBER:	05-213212.00		Groundwater <table border="1"> <tr> <th>Date</th> <th>Depth</th> <th>Stabilization Time</th> <th>TYPE</th> <th>H.S.A.</th> <th>SAMPLER</th> <th>CORE BARREL</th> </tr> <tr> <td>2/2/2010</td> <td>NA</td> <td>NA</td> <td>INSIDE DIAMETER</td> <td></td> <td>1.5"</td> <td></td> </tr> <tr> <td></td> <td></td> <td></td> <td>HAMMER WEIGHT</td> <td></td> <td></td> <td></td> </tr> <tr> <td></td> <td></td> <td></td> <td>HAMMER FALL</td> <td></td> <td></td> <td></td> </tr> <tr> <td></td> <td></td> <td></td> <td>NOTES:</td> <td></td> <td></td> <td></td> </tr> </table>			Date	Depth	Stabilization Time	TYPE	H.S.A.	SAMPLER	CORE BARREL	2/2/2010	NA	NA	INSIDE DIAMETER		1.5"					HAMMER WEIGHT							HAMMER FALL							NOTES:			
Date	Depth	Stabilization Time	TYPE	H.S.A.	SAMPLER				CORE BARREL																																		
2/2/2010	NA	NA	INSIDE DIAMETER		1.5"																																						
			HAMMER WEIGHT																																								
			HAMMER FALL																																								
			NOTES:																																								
			PROJECT NAME:	Former Green Thumb Nursery																																							
			PROJECT ADDRESS:	183 Turnpike Road																																							
			CLIENT NAME:	Warren Equities																																							
			CASING	SAMPLER	CORE BARREL	Casing Elevation (ft.)	NA																																				
						PVC Elevation (ft.)	NA																																				
						Surface Elevation (ft.)	NA																																				
						Date Started																																					
						Date Completed																																					
Depth	Sample Number	Sample Depths	Penetration/ Recovery	Blows per 6" penetration	Strata Changes	Soil Descriptions		Well As Built	Field Testing (ppm)	Notes																																	
0	S-1	0.5-2.5	24/4	8-12-14-12	SILTY FINE SAND	Brown, dry, medium dense, SILTY FINE SAND, some fine to medium gravel. -no odor or staining. H.S.A. refusal at 7.0 fbg.			0.0																																		
5	S-2	5-7	24/4	11-13-10-12	SILT	Brown, dry, medium dense, SILT, some fine sand, some medium gravel. -no odor or staining. H.S.A. refusal at 7.0 fbg.			0.0																																		
10																																											
15																																											
20																																											

1. Field testing values represent total volatile organic vapors (referenced to a benzene standard) measured in the headspace of a 8 oz. driller's jar, with a Phocheck 1000+. Results reported in parts per million by volume (ppmv).
 2. Soil samples collected by using a truck-mounted hollow stem auger drill rig with a 24-inch stainless steel split spoon sampler with a 1.5-inch inside diameter.
 3. Groundwater was not encountered.

 Depth of Groundwater
 Concrete
 Bentonite
 No. 1 Sand

data\office\forms\drilling\boring logs\2'EP

 <i>10 State Street</i> <i>Woburn, Ma. 01801</i>		SOIL BORING and MONITORING WELL INSTALLATION LOG				BORING NO.:	B-4/MW-1				
						DOCUMENT NO.:					
		SHEET	1	OF	1	LOCATION					
		SEE SITE PLAN									
BORING COMPANY: Drilllex		JOB NUMBER:	05-213212.00				SEE SITE PLAN				
BORING COMPANY ADDRESS: West Boylston, MA.		PROJECT NAME:	Former Green Thumb Nursery								
FOREMAN: Chris 2/2/2010		PROJECT ADDRESS:	183 Turnpike Road								
FOREMAN: Jeremiah 2/16/2010		CLIENT NAME:	Warren Equities								
ECS INSPECTOR: E. Kaatz				CASING	SAMPLER	CORE BARREL					
Groundwater											
Date	Depth	Stabilization Time	TYPE	H.S.A.	Split Spoon		Casing Elevation (ft.)	NA			
2/2/2010	NA	NA	INSIDE DIAMETER		1.5"		PVC Elevation (ft.)	NA			
2/16/2010	13.5	1 hour	HAMMER WEIGHT				Surface Elevation (ft.)	NA			
			HAMMER FALL				Date Started				
			NOTES:	Returned on 2/16/2010; with air hammer.			Date Completed				
Depth	Sample Number	Sample Depths	Penetration/ Recovery	Blows per 6" penetration	Strata Changes	Soil Descriptions		Well As Built	Field Testing (ppm)	Notes	
0	S-1	0.5-2.5	24/12	12-8-10-6	FINE SAND	Gravel Cover					
						Brown, dry, medium dense, FINE SAND, some silt, trace medium sand, trace gravel. -no odor or staining.			0.0		
		S-2	2.5-4.5	24/20		7-4-5-6				Brown, dry, loose, FINE SAND, some silt, trace medium sand, trace gravel. -no odor or staining.	
		S-3	5-7	24/20		5-11-14-13				Brown, dry, medium dense, FINE to MEDIUM SAND, some coarse sand, trace silt. -no odor or staining.	
										H.S.A. resistance at 7.0 fbg. Possible weather bedrock	
5	S-3	10-12	24/12	13-15-17-51	BEDROCK	Air hammer from 12 fbg to 25 fbg.					
10						B.O.H. @ 25 fbg					
15											
20											

1. Field testing values represent total volatile organic vapors (referenced to a benzene standard) measured in the headspace of a 8 oz. driller's jar, with a Phocheck 1000+. Results reported in parts per million by volume (ppmv).

2. Soil samples collected by using a truck-mounted hollow stem auger drill rig with a 24-inch stainless steel split spoon sampler with a 1.5-inch inside diameter.

3. Groundwater encountered at approximately 18 feet below grade. After 1 hour of stabilization groundwater was measured at 13.5 feet below grade.

Depth of Groundwater
Concrete
Bentonite
No. 1 Sand

data\office\forms\drilling\boring logs\2'EP



*10 State Street
Woburn, Ma. 01801*

SOIL BORING and MONITORING WELL INSTALLATION LOG

BORING NO.:	GP-1		
DOCUMENT NO.:			
SHEET	1	OF	1
LOCATION			

LOCATION

1. Field testing values represent total volatile organic vapors (referenced to a benzene standard) measured in the headspace of a 8 oz. drillers jar, with a OVM 580B. Results reported in parts per million by volume (ppmv).

2. Soil samples collected by using a track-mounted probe drive system with a 48-inch LARGE BORE sampler fitted with a dedicated 1.5-inch inside diameter PETG liner.

3. Groundwater encountered was not encountered.



Depth of Groundwater



10 State Street
Woburn, Ma. 01801

**SOIL BORING and MONITORING WELL
INSTALLATION LOG**

BORING NO.:	GP-2		
DOCUMENT NO.:			
SHEET	1	OF	1
LOCATION			

BORING COMPANY:	Bronson Drilling			JOB NUMBER:	05-213212.00					
BORING COMPANY ADDRESS:	Lexington, MA			PROJECT NAME:	Former Green Thumb Nursery					
FOREMAN:	Dan Bronson			PROJECT ADDRESS:	183 Turnpike Road					
FOREMAN:				CLIENT NAME:	Warren Equities					
ECS INSPECTOR:	Eric Kaatz									
Groundwater				CASING	SAMPLER	CORE BARREL				
Date	Depth	Stabilization Time	TYPE		L.B.		Casing Elevation (ft.)			
			INSIDE DIAMETER		1.5"		PVC Elevation (ft.)			
			HAMMER WEIGHT		Direct Drive		Surface Elevation (ft.)			
			HAMMER FALL				Date Started			
			NOTES:	Earthprobe sampling method			Date Completed			
Depth	Sample Number	Sample Depths	Penetration/ Recovery	Blows per 6" penetration	Strata Changes	Soil Descriptions	Well As Built	Field Testing (ppm)	Notes	
0	S-1	0-4	48/24	NA	SILTY FINE SAND	Brown, dry, SILTY FINE SAND, some gravel.				
						BOH @ 4.0 fbg		0.0 ppm		
5										
10										
15										
20										

1. Field testing values represent total volatile organic vapors (referenced to a benzene standard) measured in the headspace of a 8 oz. driller's jar, with a OVM 580B. Results reported in parts per million by volume (ppmv).

2. Soil samples collected by using a track-mounted probe drive system with a 48-inch LARGE BORE sampler fitted with a dedicated 1.5-inch inside diameter PETG liner.
3. Groundwater encountered was not encountered.



Depth of Groundwater

 10 State Street <i>Woburn, Ma. 01801</i>			SOIL BORING and MONITORING WELL INSTALLATION LOG			BORING NO.: GP-3 DOCUMENT NO.: SHEET 1 OF 1							
						LOCATION							
BORING COMPANY: Bronson Drilling			JOB NUMBER: 05-213212.00			SEE SITE PLAN							
BORING COMPANY ADDRESS: Lexington, MA			PROJECT NAME: Former Green Thumb Nursery										
FOREMAN: Dan Bronson			PROJECT ADDRESS: 183 Turnpike Road										
FOREMAN:			CLIENT NAME: Warren Equities										
ECS INSPECTOR: Eric Kaatz													
Groundwater			CASING	SAMPLER	CORE BARREL								
Date	Depth	Stabilization Time	TYPE	L.B.	Casing Elevation (ft.)	NA							
			INSIDE DIAMETER	1.5"	PVC Elevation (ft.)	NA							
			HAMMER WEIGHT	Direct Drive	Surface Elevation (ft.)	NA							
			HAMMER FALL		Date Started								
			NOTES:	Earthprobe sampling method		Date Completed							
Depth	Sample Number	Sample Depths	Penetration/ Recovery	Blows per 6" penetration	Strata Changes	Soil Descriptions		Well As Built	Field Testing (ppm)	Notes			
0	S-1	0-4	48/24	NA	COARSE SAND	Brown, dry, COARSE SAND and gravel, some fine			0.0 ppm				
					MEDIUM SAND	Dark brown, dry, MEDIUM SAND, some gravel, trace							
	5	S-2	4-8	48/36		NA	FINE SAND			Light brown, dry, FINE SAND, some silt, trace gravel.			0.0 ppm
10							BOH @ 8.0 fbg						
	15												
20													

1. Field testing values represent total volatile organic vapors (referenced to a benzene standard) measured in the headspace of a 8 oz. driller's jar, with a OVM 580B. Results reported in parts per million by volume (ppmv).

2. Soil samples collected by using a track-mounted probe drive system with a 48-inch LARGE BORE sampler fitted with a dedicated 1.5-inch inside diameter PETG liner.

3. Groundwater encountered was not encountered.

▼ Depth of Groundwater

 10 State Street <i>Woburn, Ma. 01801</i>			SOIL BORING and MONITORING WELL INSTALLATION LOG			BORING NO.: GP-4 DOCUMENT NO.: SHEET 1 OF 1						
						LOCATION						
BORING COMPANY: Bronson Drilling BORING COMPANY ADDRESS: Lexington, MA FOREMAN: Dan Bronson FOREMAN: ECS INSPECTOR: Eric Kaatz			JOB NUMBER: 05-213212.00 PROJECT NAME: Former Green Thumb Nursery PROJECT ADDRESS: 183 Turnpike Road CLIENT NAME: Warren Equities			SEE SITE PLAN						
Groundwater			CASING	SAMPLER	CORE BARREL							
Date	Depth	Stabilization Time	TYPE	L.B.	Casing Elevation (ft.)			NA				
			INSIDE DIAMETER	1.5"	PVC Elevation (ft.)			NA				
			HAMMER WEIGHT	Direct Drive	Surface Elevation (ft.)			NA				
			HAMMER FALL		Date Started							
			NOTES:	Earthprobe sampling method		Date Completed						
Depth	Sample Number	Sample Depths	Penetration/ Recovery	Blows per 6" penetration	Strata Changes	Soil Descriptions		Well As Built	Field Testing (ppm)	Notes		
0	S-1	0-4	48/36	NA	FINE to MEDIUM SAND	Brown, dry, FINE to MEDIUM SAND, some fine gravel, trace silt.			0.0 ppm			
						BOH @ 4.0 fbg						
	5											
	10											
	15											
	20											
	1. Field testing values represent total volatile organic vapors (referenced to a benzene standard) measured in the headspace of a 8 oz. driller's jar, with a OVM 580B. Results reported in parts per million by volume (ppmv). 2. Soil samples collected by using a track-mounted probe drive system with a 48-inch LARGE BORE sampler fitted with a dedicated 1.5-inch inside diameter PETG liner. 3. Groundwater encountered was not encountered.											
	▼ Depth of Groundwater											



*10 State Street
Woburn, Ma. 01801*

SOIL BORING and MONITORING WELL INSTALLATION LOG

BORING NO.:	GP-5		
DOCUMENT NO.:			
SHEET	1	OF	1
LOCATION			

LOCATION

1. Field testing values represent total volatile organic vapors (referenced to a benzene standard) measured in the headspace of a 8 oz. drillers jar, with a OVM 580B. Results reported in parts per million by volume (ppmv).

2. Soil samples collected by using a track-mounted probe drive system with a 48-inch LARGE BORE sampler fitted with a dedicated 1.5-inch inside diameter PETG liner.

3. Groundwater encountered was not encountered.



Depth of Groundwater



*10 State Street
Woburn, Ma. 01801*

SOIL BORING and MONITORING WELL INSTALLATION LOG

BORING NO.:	GP-6		
DOCUMENT NO.:			
SHEET	1	OF	1
LOCATION			

LOCATION

1. Field testing values represent total volatile organic vapors (referenced to a benzene standard) measured in the headspace of a 8 oz. drillers jar, with a OVM 580B. Results reported in parts per million by volume (ppmv).

2. Soil samples collected by using a track-mounted probe drive system with a 48-inch LARGE BORE sampler fitted with a dedicated 1.5-inch inside diameter PETG liner.

3. Groundwater encountered was not encountered.



Depth of Groundwater



10 State Street
Woburn, Ma. 01801

**SOIL BORING and MONITORING WELL
INSTALLATION LOG**

BORING NO.:	GP-7		
DOCUMENT NO.:			
SHEET	1	OF	1
LOCATION			

BORING COMPANY:	Bronson Drilling			JOB NUMBER:	05-213212.00				
BORING COMPANY ADDRESS:	Lexington, MA			PROJECT NAME:	Former Green Thumb Nursery				
FOREMAN:	Dan Bronson			PROJECT ADDRESS:	183 Turnpike Road				
FOREMAN:				CLIENT NAME:	Warren Equities				
ECS INSPECTOR:	Eric Kaatz								
Groundwater				CASING	SAMPLER	CORE BARREL			
Date	Depth	Stabilization Time	TYPE		L.B.	Casing Elevation (ft.)	NA		
			INSIDE DIAMETER		1.5"	PVC Elevation (ft.)	NA		
			HAMMER WEIGHT		Direct Drive	Surface Elevation (ft.)	NA		
			HAMMER FALL			Date Started			
			NOTES:	Earthprobe sampling method			Date Completed		
Depth	Sample Number	Sample Depths	Penetration/ Recovery	Blows per 6" penetration	Strata Changes	Soil Descriptions	Well As Built	Field Testing (ppm)	Notes
0	S-1	0-4	48/24	NA	FINE to MEDIUM SAND	Brown, dry, FINE to MEDIUM SAND, some silt, trace gravel.		0.0 ppm	
5						BOH @ 4.0 fbg			
10									
15									
20									

1. Field testing values represent total volatile organic vapors (referenced to a benzene standard) measured in the headspace of a 8 oz. driller's jar, with a OVM 580B. Results reported in parts per million by volume (ppmv).

2. Soil samples collected by using a track-mounted probe drive system with a 48-inch LARGE BORE sampler fitted with a dedicated 1.5-inch inside diameter PETG liner.
3. Groundwater encountered was not encountered.



Depth of Groundwater



10 State Street
Woburn, Ma. 01801

**SOIL BORING and MONITORING WELL
INSTALLATION LOG**

BORING NO.:	GP-8		
DOCUMENT NO.:			
SHEET	1	OF	1
LOCATION			

BORING COMPANY:	Bronson Drilling			JOB NUMBER:	05-213212.00					
BORING COMPANY ADDRESS:	Lexington, MA			PROJECT NAME:	Former Green Thumb Nursery					
FOREMAN:	Dan Bronson			PROJECT ADDRESS:	183 Turnpike Road					
FOREMAN:				CLIENT NAME:	Warren Equities					
ECS INSPECTOR:	Eric Kaatz									
Groundwater				CASING	SAMPLER	CORE BARREL				
Date	Depth	Stabilization Time	TYPE		L.B.	Casing Elevation (ft.)	NA			
			INSIDE DIAMETER		1.5"	PVC Elevation (ft.)	NA			
			HAMMER WEIGHT		Direct Drive	Surface Elevation (ft.)	NA			
			HAMMER FALL			Date Started				
			NOTES:	Earthprobe sampling method			Date Completed			
Depth	Sample Number	Sample Depths	Penetration/ Recovery	Blows per 6" penetration	Strata Changes	Soil Descriptions	Well As Built	Field Testing (ppm)	Notes	
0	S-1	0-4	48/40	NA	SILTY FINE SAND	Brown, moist (surface water), SILTY FINE SAND, some fine sand, trace gravel.		0.0 ppm		
						BOH @ 4.0 fbg				
5										
10										
15										
20										

1. Field testing values represent total volatile organic vapors (referenced to a benzene standard) measured in the headspace of a 8 oz. driller's jar, with a OVM 580B. Results reported in parts per million by volume (ppmv).

2. Soil samples collected by using a track-mounted probe drive system with a 48-inch LARGE BORE sampler fitted with a dedicated 1.5-inch inside diameter PETG liner.
3. Groundwater encountered was not encountered.



Depth of Groundwater



*10 State Street
Woburn, Ma. 01801*

SOIL BORING and MONITORING WELL INSTALLATION LOG

BORING NO.:	GP-9		
DOCUMENT NO.:			
SHEET	1	OF	1
LOCATION			

LOCATION

1. Field testing values represent total volatile organic vapors (referenced to a benzene standard) measured in the headspace of a 8 oz. drillers jar, with a OVM 580B. Results reported in parts per million by volume (ppmv).

2. Soil samples collected by using a track-mounted probe drive system with a 48-inch LARGE BORE sampler fitted with a dedicated 1.5-inch inside diameter PETG liner.

3. Groundwater encountered was not encountered.



Depth of Groundwater



*10 State Street
Woburn, Ma. 01801*

SOIL BORING and MONITORING WELL INSTALLATION LOG

BORING NO.:	GP-10		
DOCUMENT NO.:			
SHEET	1	OF	1
LOCATION			

LOCATION

1. Field testing values represent total volatile organic vapors (referenced to a benzene standard) measured in the headspace of a 8 oz. drillers jar, with a OVM 580B. Results reported in parts per million by volume (ppmv).

2. Soil samples collected by using a track-mounted probe drive system with a 48-inch LARGE BORE sampler fitted with a dedicated 1.5-inch inside diameter PETG liner.

3. Groundwater encountered was not encountered.



Depth of Groundwater



*10 State Street
Woburn, Ma. 01801*

SOIL BORING and MONITORING WELL INSTALLATION LOG

BORING NO.:	GP-11		
DOCUMENT NO.:			
SHEET	1	OF	1
LOCATION			

LOCATION

1. Field testing values represent total volatile organic vapors (referenced to a benzene standard) measured in the headspace of a 8 oz. drillers jar, with a OVM 580B. Results reported in parts per million by volume (ppmv).

2. Soil samples collected by using a track-mounted probe drive system with a 48-inch LARGE BORE sampler fitted with a dedicated 1.5-inch inside diameter PETG liner.

3. Groundwater encountered was not encountered.



Depth of Groundwater



*10 State Street
Woburn, Ma. 01801*

SOIL BORING and MONITORING WELL INSTALLATION LOG

BORING NO.:	GP-12		
DOCUMENT NO.:			
SHEET	1	OF	1
LOCATION			

LOCATION

BORING COMPANY: BORING COMPANY ADDRESS:	Bronson Drilling Lexington, MA			JOB NUMBER:	05-213212.00		SEE SITE PLAN		
FOREMAN:	Dan Bronson			PROJECT NAME:	Former Green Thumb Nursery				
FOREMAN:				PROJECT ADDRESS:	183 Turnpike Road				
ECS INSPECTOR:	Eric Kaatz			CLIENT NAME:	Warren Equities				
Groundwater				CASING	SAMPLER	CORE BARREL			
Date	Depth	Stabilization Time	TYPE		L.B.		Casing Elevation (ft.)	NA	
			INSIDE DIAMETER		1.5"		PVC Elevation (ft.)	NA	
			HAMMER WEIGHT		Direct Drive		Surface Elevation (ft.)	NA	
			HAMMER FALL				Date Started		
			NOTES:	Earthprobe sampling method			Date Completed		
Depth	Sample Number	Sample Depths	Penetration/ Recovery	Blows per 6" penetration	Strata Changes	Soil Descriptions	Well As Built	Field Testing (ppm)	Notes
0	S-1	0-4	48/36	NA	MEDIUM to COARSE SAND	Brown, dry, MEDIUM to COARSE SAND, some fine sand, trace silt.	BOH @ 4.0 fbg	0.0 ppm	
5									
10									
15									
20									

1. Field testing values represent total volatile organic vapors (referenced to a benzene standard) measured in the headspace of a 8 oz. drillers jar, with a OVM 580B. Results reported in parts per million by volume (ppmv).

2. Soil samples collected by using a track-mounted probe drive system with a 48-inch LARGE BORE sampler fitted with a dedicated 1.5-inch inside diameter PETG liner.

3. Groundwater encountered was not encountered.



Depth of Groundwater



10 State Street
Woburn, Ma. 01801

**SOIL BORING and MONITORING WELL
INSTALLATION LOG**

BORING NO.:	GP-13		
DOCUMENT NO.:			
SHEET	1	OF	1
LOCATION			

BORING COMPANY:	Bronson Drilling			JOB NUMBER:	05-213212.00				
BORING COMPANY ADDRESS:	Lexington, MA			PROJECT NAME:	Former Green Thumb Nursery				
FOREMAN:	Dan Bronson			PROJECT ADDRESS:	183 Turnpike Road				
FOREMAN:				CLIENT NAME:	Warren Equities				
ECS INSPECTOR:	Eric Kaatz								
Groundwater				CASING	SAMPLER	CORE BARREL			
Date	Depth	Stabilization Time	TYPE		L.B.		Casing Elevation (ft.)		
			INSIDE DIAMETER		1.5"		PVC Elevation (ft.)		
			HAMMER WEIGHT		Direct Drive		Surface Elevation (ft.)		
			HAMMER FALL				Date Started		
			NOTES:	Earthprobe sampling method			Date Completed		
Depth	Sample Number	Sample Depths	Penetration/ Recovery	Blows per 6" penetration	Strata Changes	Soil Descriptions	Well As Built	Field Testing (ppm)	Notes
0	S-1	0-4	48/36	NA	FINE SAND	Brown, dry, FINE SAND, some silt, some fine gravel		0.0 ppm	
						BOH @ 4.0 fbg			
5									
10									
15									
20									

1. Field testing values represent total volatile organic vapors (referenced to a benzene standard) measured in the headspace of a 8 oz. driller's jar, with a OVM 580B. Results reported in parts per million by volume (ppmv).

2. Soil samples collected by using a track-mounted probe drive system with a 48-inch LARGE BORE sampler fitted with a dedicated 1.5-inch inside diameter PETG liner.

3. Groundwater encountered was not encountered.



Depth of Groundwater



*10 State Street
Woburn, Ma. 01801*

SOIL BORING and MONITORING WELL INSTALLATION LOG

BORING NO.:	GP-14		
DOCUMENT NO.:			
SHEET	1	OF	1
LOCATION			

LOCATION

1. Field testing values represent total volatile organic vapors (referenced to a benzene standard) measured in the headspace of a 8 oz. drillers jar, with a OVM 580B. Results reported in parts per million by volume (ppmv).

2. Soil samples collected by using a track-mounted probe drive system with a 48-inch LARGE BORE sampler fitted with a dedicated 1.5-inch inside diameter PETG liner.

3. Groundwater encountered was not encountered.



Depth of Groundwater



*10 State Street
Woburn, Ma. 01801*

SOIL BORING and MONITORING WELL INSTALLATION LOG

BORING NO.:	GP-15		
DOCUMENT NO.:			
SHEET	1	OF	1
LOCATION			

LOCATION

1. Field testing values represent total volatile organic vapors (referenced to a benzene standard) measured in the headspace of a 8 oz. drillers jar, with a OVM 580B. Results reported in parts per million by volume (ppmv).

2. Soil samples collected by using a track-mounted probe drive system with a 48-inch LARGE BORE sampler fitted with a dedicated 1.5-inch inside diameter PETG liner.

3. Groundwater encountered was not encountered.



Depth of Groundwater



10 State Street
Woburn, Ma. 01801

**SOIL BORING and MONITORING WELL
INSTALLATION LOG**

BORING NO.:	GP-16		
DOCUMENT NO.:			
SHEET	1	OF	1
LOCATION			

BORING COMPANY:	Bronson Drilling			JOB NUMBER:	05-213212.00				
BORING COMPANY ADDRESS:	Lexington, MA			PROJECT NAME:	Former Green Thumb Nursery				
FOREMAN:	Dan Bronson			PROJECT ADDRESS:	183 Turnpike Road				
FOREMAN:				CLIENT NAME:	Warren Equities				
ECS INSPECTOR:	Eric Kaatz								
Groundwater				CASING	SAMPLER	CORE BARREL			
Date	Depth	Stabilization Time	TYPE		L.B.		Casing Elevation (ft.)		
			INSIDE DIAMETER		1.5"		PVC Elevation (ft.)		
			HAMMER WEIGHT		Direct Drive		Surface Elevation (ft.)		
			HAMMER FALL				Date Started		
			NOTES:	Earthprobe sampling method			Date Completed		
Depth	Sample Number	Sample Depths	Penetration/ Recovery	Blows per 6" penetration	Strata Changes	Soil Descriptions	Well As Built	Field Testing (ppm)	Notes
0	S-1	0-4	48/36	NA	FINE SAND	Brown, moist, FINE SAND, some silt, trace gravel.		0.0 ppm	
						BOH @ 4.0 fbg			
5									
10									
15									
20									

1. Field testing values represent total volatile organic vapors (referenced to a benzene standard) measured in the headspace of a 8 oz. driller's jar, with a OVM 580B. Results reported in parts per million by volume (ppmv).

2. Soil samples collected by using a track-mounted probe drive system with a 48-inch LARGE BORE sampler fitted with a dedicated 1.5-inch inside diameter PETG liner.
3. Groundwater encountered was not encountered.



Depth of Groundwater



10 State Street
Woburn, Ma. 01801

**SOIL BORING and MONITORING WELL
INSTALLATION LOG**

BORING NO.:	GP-17		
DOCUMENT NO.:			
SHEET	1	OF	1
LOCATION			

BORING COMPANY: Bronson Drilling				JOB NUMBER: 05-213212.00	SEE SITE PLAN				
BORING COMPANY ADDRESS:	Lexington, MA			PROJECT NAME: Former Green Thumb Nursery					
FOREMAN:	Dan Bronson			PROJECT ADDRESS: 183 Turnpike Road					
FOREMAN:				CLIENT NAME: Warren Equities					
ECS INSPECTOR:	Eric Kaatz								
Groundwater			CASING	SAMPLER	CORE BARREL				
Date	Depth	Stabilization Time	TYPE	L.B.	Casing Elevation (ft.)	NA			
			INSIDE DIAMETER	1.5"	PVC Elevation (ft.)	NA			
			HAMMER WEIGHT	Direct Drive	Surface Elevation (ft.)	NA			
			HAMMER FALL		Date Started				
			NOTES:	Earthprobe sampling method		Date Completed			
Depth	Sample Number	Sample Depths	Penetration/ Recovery	Blows per 6" penetration	Strata Changes	Soil Descriptions	Well As Built	Field Testing (ppm)	Notes
0	S-1	0-4	48/30	NA	FINE SAND	Gray-Black debris, Dark brown, dry, MEDIUM SAND, some silt, trace gravel.		0.0 ppm	
	S-2	4-8	48/24	NA		Brown, dry, FINE to MEDIUM SAND, some gravel,		0.0 ppm	
5					FINE to MEDIUM SAND	Brown, dry, FINE to MEDIUM SAND, some gravel,		0.0 ppm	
10									
15						BOH @ 8.0 fbg			
20									

1. Field testing values represent total volatile organic vapors (referenced to a benzene standard) measured in the headspace of a 8 oz. driller's jar, with a OVM 580B. Results reported in parts per million by volume (ppmv).

2. Soil samples collected by using a track-mounted probe drive system with a 48-inch LARGE BORE sampler fitted with a dedicated 1.5-inch inside diameter PETG liner.

3. Groundwater encountered was not encountered.



Depth of Groundwater



10 State Street
Woburn, Ma. 01801

**SOIL BORING and MONITORING WELL
INSTALLATION LOG**

BORING NO.:	GP-18		
DOCUMENT NO.:			
SHEET	1	OF	1
LOCATION			

BORING COMPANY:	Bronson Drilling			JOB NUMBER:	05-213212.00				
BORING COMPANY ADDRESS:	Lexington, MA			PROJECT NAME:	Former Green Thumb Nursery				
FOREMAN:	Dan Bronson			PROJECT ADDRESS:	183 Turnpike Road				
FOREMAN:				CLIENT NAME:	Warren Equities				
ECS INSPECTOR:	Eric Kaatz								
Groundwater				CASING	SAMPLER	CORE BARREL			
Date	Depth	Stabilization Time	TYPE		L.B.	Casing Elevation (ft.)	NA		
			INSIDE DIAMETER		1.5"	PVC Elevation (ft.)	NA		
			HAMMER WEIGHT		Direct Drive	Surface Elevation (ft.)	NA		
			HAMMER FALL			Date Started			
			NOTES:	Earthprobe sampling method			Date Completed		
Depth	Sample Number	Sample Depths	Penetration/ Recovery	Blows per 6" penetration	Strata Changes	Soil Descriptions	Well As Built	Field Testing (ppm)	Notes
0	S-1	0-4	48/36	NA	FINE to MEDIUM SAND	Brown, dry, FINE to MEDIUM SAND, some gravel. Brownish black, dry, COARSE SAND, some medium sand, some gravel, trace silt.		0.0 ppm	
5						BOH @ 4.0 fbg			
10									
15									
20									

1. Field testing values represent total volatile organic vapors (referenced to a benzene standard) measured in the headspace of a 8 oz. driller's jar, with a OVM 580B. Results reported in parts per million by volume (ppmv).

2. Soil samples collected by using a track-mounted probe drive system with a 48-inch LARGE BORE sampler fitted with a dedicated 1.5-inch inside diameter PETG liner.

3. Groundwater encountered was not encountered.



Depth of Groundwater

SEE SITE PLAN

APPENDIX I

Report Date:
18-Feb-10 14:22



- Final Report
 Re-Issued Report
 Revised Report

SPECTRUM ANALYTICAL, INC.
Featuring
HANIBAL TECHNOLOGY

Laboratory Report

Environmental Compliance Services
10 State Street
Woburn, MA 01801
Attn: Jamie Smith

Project: Warren Equities - Westborough, MA
Project #: 05-213212

Laboratory ID	Client Sample ID	Matrix	Date Sampled	Date Received
SB07646-01	B-1 (10-12)	Soil	02-Feb-10 08:30	04-Feb-10 15:30
SB07646-02	B-2 (0.5-1)	Soil	02-Feb-10 09:30	04-Feb-10 15:30
SB07646-03	B-2 (1-3)	Soil	02-Feb-10 09:45	04-Feb-10 15:30
SB07646-04	B-3 (5-7)	Soil	02-Feb-10 13:15	04-Feb-10 15:30
SB07646-05	B-4 (0.5-1)	Soil	02-Feb-10 10:10	04-Feb-10 15:30
SB07646-06	B-4 (1-3)	Soil	02-Feb-10 10:35	04-Feb-10 15:30
SB07646-07	B-4 (5-7)	Soil	02-Feb-10 11:00	04-Feb-10 15:30
SB07646-08	HA-1 (0.5-1)	Soil	02-Feb-10 14:30	04-Feb-10 15:30
SB07646-09	HA-2 (0.5-1)	Soil	02-Feb-10 14:45	04-Feb-10 15:30
SB07646-10	HA-3 (0.5-1)	Soil	02-Feb-10 15:05	04-Feb-10 15:30
SB07646-11	HA-4 (0.5-1)	Soil	02-Feb-10 15:30	04-Feb-10 15:30

I attest that the information contained within the report has been reviewed for accuracy and checked against the quality control requirements for each method. These results relate only to the sample(s) as received.

All applicable NELAC requirements have been met.

Massachusetts # M-MA138/MA1110

Connecticut # PH-0777

Florida # E87600/E87936

Maine # MA138

New Hampshire # 2538

New Jersey # MA011/MA012

New York # 11393/11840

Pennsylvania # 68-04426/68-02924

Rhode Island # 98

USDA # S-51435

Vermont # VT-11393



Authorized by:

Hanibal C. Tayeh, Ph.D.
President/Laboratory Director

Technical Reviewer's Initial:

Spectrum Analytical holds certification in the State of Massachusetts for the analytes as indicated with an X in the "Cert." column within this report. Please note that the State of Massachusetts does not offer certification for all analytes.

Please note that this report contains 62 pages of analytical data plus Chain of Custody document(s). When the Laboratory Report is indicated as revised, this report supercedes any previously dated reports for the laboratory ID(s) referenced above. Where this report identifies subcontracted analyses, copies of the subcontractor's test report is available upon request. This report may not be reproduced, except in full, without written approval from Spectrum Analytical, Inc.

Spectrum Analytical, Inc. is a NELAC accredited laboratory organization and meets NELAC testing standards. Use of the NELAC logo however does not insure that Spectrum is currently accredited for the specific method or analyte indicated. Please refer to our "Quality" web page at www.spectrum-analytical.com for a full listing of our current certifications and fields of accreditation. States in which Spectrum Analytical, Inc. holds NELAC certification are New York, New Hampshire, New Jersey and Florida. All analytical work for Volatile Organic and Air analysis are transferred to and conducted at our 830 Silver Street location (NY-11840, FL-E87936 and NJ-MA012).

Please contact the Laboratory or Technical Director at 800-789-9115 with any questions regarding the data contained in this laboratory report.

CASE NARRATIVE:

The sample temperature upon receipt by Spectrum Analytical courier was recorded as 3.6 degrees Celsius. The condition of these samples was further noted as refrigerated. The samples were transported on ice to the laboratory facility and the temperature was recorded at 3.0 degrees Celsius upon receipt at the laboratory. Please refer to the Chain of Custody for details specific to sample receipt times.

An infrared thermometer with a tolerance of +/- 2.0 degrees Celsius was used immediately upon receipt of the samples.

If a Matrix Spike (MS), Matrix Spike Duplicate (MSD) or Duplicate (DUP) was not requested on the Chain of Custody, method criteria may have been fulfilled with a source sample not of this Sample Delivery Group.

MADEP has published a list of analytical methods (CAM) which provides a series of recommended protocols for the acquisition, analysis and reporting of analytical data in support of MCP decisions. "Presumptive Certainty" can be established only for those methods published by the MADEP in the MCP CAM. The compounds and/or elements reported were specifically requested by the client on the Chain of Custody and in some cases may not include the full analyte list as defined in the method.

According to WSC-CAM 5/2004 Rev.4, Table 11 A-1, recovery for some VOC analytes have been deemed potentially difficult. Although they may still be within the recommended 70%-130% recovery range, a range has been set based on historical control limits.

All VOC soils samples submitted and analyzed in methanol will have a minimum dilution factor of 50. This is the minimum amount of solvent allowed on the instrumentation without causing interference. Additional dilution factors may be required to keep analyte concentration within instrument calibration.

See below for any non-conformances and issues relating to quality control samples and/or sample analysis/matrix.

SW846 6010B

Duplicates:

1003678-DUP1 *Source: SB07646-01*

The RPD exceeded the QC control limits; however precision is demonstrated with acceptable RPD values for MS/MSD.

Arsenic
Chromium
Lead

SW846 8081A

Spikes:

1003462-MS1 *Source: SB07646-01*

The spike recovery was outside acceptance limits for the MS and/or MSD. The batch was accepted based on acceptable LCS recovery.

gamma-Chlordane

1003462-MSD1 *Source: SB07646-01*

The spike recovery was outside acceptance limits for the MS and/or MSD. The batch was accepted based on acceptable LCS recovery.

gamma-Chlordane

Samples:

SB07646-09 *HA-2 (0.5-l)*

The concentration indicated for this analyte is an estimated value. This value is considered an estimate (CLP E-flag).

Endosulfan sulfate [2C]

SW846 8260B

This laboratory report is not valid without an authorized signature on the cover page.

Blanks:

1003324-BLK1

Analyte quantified by quadratic equation type calibration.

1,2,3-Trichlorobenzene

1,2,4-Trichlorobenzene

Naphthalene

Laboratory Control Samples:

1003324 BS/BSD

1,1,2-Trichlorotrifluoroethane (Freon 113) percent recoveries 100/134 (70-130) are outside individual acceptance criteria, but within overall method allowances. All reported results of the following samples are considered to have a potentially high bias:

B-1 (10-12)
B-4 (5-7)

2,2-Dichloropropane percent recoveries 15/95 (70-130) are outside individual acceptance criteria, but within overall method allowances. All reported results of the following samples are considered to have a potentially low bias:

B-1 (10-12)
B-4 (5-7)

cis-1,3-Dichloropropene percent recoveries 62/84 (70-130) are outside individual acceptance criteria, but within overall method allowances. All reported results of the following samples are considered to have a potentially low bias:

B-1 (10-12)
B-4 (5-7)

Styrene percent recoveries 3/90 (70-130) are outside individual acceptance criteria, but within overall method allowances. All reported results of the following samples are considered to have a potentially low bias:

B-1 (10-12)
B-4 (5-7)

trans-1,3-Dichloropropene percent recoveries 53/76 (70-130) are outside individual acceptance criteria, but within overall method allowances. All reported results of the following samples are considered to have a potentially low bias:

B-1 (10-12)
B-4 (5-7)

trans-1,4-Dichloro-2-butene percent recoveries 55/99 (70-130) are outside individual acceptance criteria, but within overall method allowances. All reported results of the following samples are considered to have a potentially low bias:

B-1 (10-12)
B-4 (5-7)

1003324 BSD

1,1,2-Trichlorotrifluoroethane (Freon 113) RPD 29% (25%) is outside individual acceptance criteria, but within overall method allowances.

1,4-Dioxane RPD 56% (25%) is outside individual acceptance criteria, but within overall method allowances.

2,2-Dichloropropane RPD 145% (25%) is outside individual acceptance criteria, but within overall method allowances.

Acetone RPD 101% (50%) is outside individual acceptance criteria, but within overall method allowances.

cis-1,3-Dichloropropene RPD 30% (25%) is outside individual acceptance criteria, but within overall method allowances.

Styrene RPD 186% (25%) is outside individual acceptance criteria, but within overall method allowances.

Tetrahydrofuran RPD 30% (25%) is outside individual acceptance criteria, but within overall method allowances.

trans-1,3-Dichloropropene RPD 36% (25%) is outside individual acceptance criteria, but within overall method allowances.

trans-1,4-Dichloro-2-butene RPD 57% (25%) is outside individual acceptance criteria, but within overall method allowances.

SW846 8260B**Laboratory Control Samples:**

1003324-BS1

Analyte quantified by quadratic equation type calibration.

1,2,3-Trichlorobenzene

1,2,4-Trichlorobenzene

Naphthalene

1003324-BSD1

Analyte quantified by quadratic equation type calibration.

1,2,3-Trichlorobenzene

1,2,4-Trichlorobenzene

Naphthalene

Samples:

S001075-CCV1

Analyte percent drift/percent difference is greater than 30%, data is accepted due to all CCC analytes passing within the 20% Drift/Difference criteria

1,4-Dioxane (-41.5%)

2,2-Dichloropropane (-84.8%)

2-Butanone (MEK) (-30.8%)

Acetone (-59.1%)

cis-1,3-Dichloropropene (-38.3%)

Styrene (-96.8%)

trans-1,3-Dichloropropene (-46.6%)

trans-1,4-Dichloro-2-butene (-44.8%)

Analyte quantified by quadratic equation type calibration.

1,2,3-Trichlorobenzene

1,2,4-Trichlorobenzene

Naphthalene

This affected the following samples:

B-1 (10-12)

B-4 (5-7)

SB07646-01*B-1 (10-12)*

Analyte quantified by quadratic equation type calibration.

1,2,3-Trichlorobenzene

1,2,4-Trichlorobenzene

Naphthalene

SB07646-07*B-4 (5-7)*

Analyte quantified by quadratic equation type calibration.

1,2,3-Trichlorobenzene

1,2,4-Trichlorobenzene

Naphthalene

Sample IdentificationB-1 (10-12)
SB07646-01Client Project #

05-213212

Matrix

Soil

Collection Date/Time

02-Feb-10 08:30

Received

04-Feb-10

<u>CAS No.</u>	<u>Analyte(s)</u>	<u>Result</u>	<u>Flag</u>	<u>Units</u>	<u>*RDL</u>	<u>Dilution</u>	<u>Method Ref.</u>	<u>Prepared</u>	<u>Analyzed</u>	<u>Batch</u>	<u>Cert.</u>
Volatile Organic Compounds											
	VOC Extraction	Field extracted		N/A		1	VOC Soil Extraction	05-Feb-10	05-Feb-10	1003187	
Volatile Organic Compounds											
Prepared by method SW846 5035A Soil (low level)											
76-13-1	1,1,2-Trichlorotrifluoroethane (Freon 113)	BRL		µg/kg dry	2.6	1	SW846 8260B	09-Feb-10	10-Feb-10	1003324	
67-64-1	Acetone	BRL		µg/kg dry	25.8	1	"	"	"	"	"
107-13-1	Acrylonitrile	BRL		µg/kg dry	2.6	1	"	"	"	"	"
71-43-2	Benzene	BRL		µg/kg dry	2.6	1	"	"	"	"	"
108-86-1	Bromobenzene	BRL		µg/kg dry	2.6	1	"	"	"	"	"
74-97-5	Bromoform	BRL		µg/kg dry	2.6	1	"	"	"	"	"
75-27-4	Bromochloromethane	BRL		µg/kg dry	2.6	1	"	"	"	"	"
75-25-2	Bromodichloromethane	BRL		µg/kg dry	2.6	1	"	"	"	"	"
74-83-9	Bromomethane	BRL		µg/kg dry	5.2	1	"	"	"	"	"
78-93-3	2-Butanone (MEK)	BRL		µg/kg dry	25.8	1	"	"	"	"	"
104-51-8	n-Butylbenzene	BRL		µg/kg dry	2.6	1	"	"	"	"	"
135-98-8	sec-Butylbenzene	BRL		µg/kg dry	2.6	1	"	"	"	"	"
98-06-6	tert-Butylbenzene	BRL		µg/kg dry	2.6	1	"	"	"	"	"
75-15-0	Carbon disulfide	BRL		µg/kg dry	12.9	1	"	"	"	"	"
56-23-5	Carbon tetrachloride	BRL		µg/kg dry	2.6	1	"	"	"	"	"
108-90-7	Chlorobenzene	BRL		µg/kg dry	2.6	1	"	"	"	"	"
75-00-3	Chloroethane	BRL		µg/kg dry	5.2	1	"	"	"	"	"
67-66-3	Chloroform	BRL		µg/kg dry	2.6	1	"	"	"	"	"
74-87-3	Chloromethane	BRL		µg/kg dry	5.2	1	"	"	"	"	"
95-49-8	2-Chlorotoluene	BRL		µg/kg dry	2.6	1	"	"	"	"	"
106-43-4	4-Chlorotoluene	BRL		µg/kg dry	2.6	1	"	"	"	"	"
96-12-8	1,2-Dibromo-3-chloropropane	BRL		µg/kg dry	5.2	1	"	"	"	"	"
124-48-1	Dibromochloromethane	BRL		µg/kg dry	2.6	1	"	"	"	"	"
106-93-4	1,2-Dibromoethane (EDB)	BRL		µg/kg dry	2.6	1	"	"	"	"	"
74-95-3	Dibromomethane	BRL		µg/kg dry	2.6	1	"	"	"	"	"
95-50-1	1,2-Dichlorobenzene	BRL		µg/kg dry	2.6	1	"	"	"	"	"
541-73-1	1,3-Dichlorobenzene	BRL		µg/kg dry	2.6	1	"	"	"	"	"
106-46-7	1,4-Dichlorobenzene	BRL		µg/kg dry	2.6	1	"	"	"	"	"
75-71-8	Dichlorodifluoromethane (Freon12)	BRL		µg/kg dry	5.2	1	"	"	"	"	"
75-34-3	1,1-Dichloroethane	BRL		µg/kg dry	2.6	1	"	"	"	"	"
107-06-2	1,2-Dichloroethane	BRL		µg/kg dry	2.6	1	"	"	"	"	"
75-35-4	1,1-Dichloroethene	BRL		µg/kg dry	2.6	1	"	"	"	"	"
156-59-2	cis-1,2-Dichloroethene	BRL		µg/kg dry	2.6	1	"	"	"	"	"
156-60-5	trans-1,2-Dichloroethene	BRL		µg/kg dry	2.6	1	"	"	"	"	"
78-87-5	1,2-Dichloropropane	BRL		µg/kg dry	2.6	1	"	"	"	"	"
142-28-9	1,3-Dichloropropane	BRL		µg/kg dry	2.6	1	"	"	"	"	"
594-20-7	2,2-Dichloropropane	BRL		µg/kg dry	2.6	1	"	"	"	"	"
563-58-6	1,1-Dichloropropene	BRL		µg/kg dry	2.6	1	"	"	"	"	"
10061-01-5	cis-1,3-Dichloropropene	BRL		µg/kg dry	2.6	1	"	"	"	"	"
10061-02-6	trans-1,3-Dichloropropene	BRL		µg/kg dry	2.6	1	"	"	"	"	"
100-41-4	Ethylbenzene	BRL		µg/kg dry	2.6	1	"	"	"	"	"
87-68-3	Hexachlorobutadiene	BRL		µg/kg dry	2.6	1	"	"	"	"	"
591-78-6	2-Hexanone (MBK)	BRL		µg/kg dry	25.8	1	"	"	"	"	"
98-82-8	Isopropylbenzene	BRL		µg/kg dry	2.6	1	"	"	"	"	"
99-87-6	4-Isopropyltoluene	BRL		µg/kg dry	2.6	1	"	"	"	"	"
1634-04-4	Methyl tert-butyl ether	BRL		µg/kg dry	2.6	1	"	"	"	"	"
108-10-1	4-Methyl-2-pentanone (MIBK)	BRL		µg/kg dry	25.8	1	"	"	"	"	"
75-09-2	Methylene chloride	BRL		µg/kg dry	25.8	1	"	"	"	"	"

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* Reportable Detection Limit

BRL = Below Reporting Limit

Page 6 of 62

Sample Identification

B-1 (10-12)
SB07646-01

Client Project #

05-213212

Matrix

Soil

Collection Date/Time

02-Feb-10 08:30

Received

04-Feb-10

CAS No.	Analyte(s)	Result	Flag	Units	*RDL	Dilution	Method Ref.	Prepared	Analyzed	Batch	Cert.		
Volatile Organic Compounds													
<u>Volatile Organic Compounds</u>													
Prepared by method SW846 5035A Soil (low level)													
Initial weight: 11.33 g													
91-20-3	Naphthalene	BRL	CAL1	µg/kg dry	5.2	1	SW846 8260B	09-Feb-10	10-Feb-10	1003324			
103-65-1	n-Propylbenzene	BRL		µg/kg dry	2.6	1	"	"	"	"			
100-42-5	Styrene	BRL		µg/kg dry	2.6	1	"	"	"	"			
630-20-6	1,1,1,2-Tetrachloroethane	BRL		µg/kg dry	2.6	1	"	"	"	"			
79-34-5	1,1,2,2-Tetrachloroethane	BRL		µg/kg dry	2.6	1	"	"	"	"			
127-18-4	Tetrachloroethene	BRL		µg/kg dry	2.6	1	"	"	"	"			
108-88-3	Toluene	BRL		µg/kg dry	2.6	1	"	"	"	"			
87-61-6	1,2,3-Trichlorobenzene	BRL	CAL1	µg/kg dry	2.6	1	"	"	"	"			
120-82-1	1,2,4-Trichlorobenzene	BRL	CAL1	µg/kg dry	2.6	1	"	"	"	"			
108-70-3	1,3,5-Trichlorobenzene	BRL		µg/kg dry	2.6	1	"	"	"	"			
71-55-6	1,1,1-Trichloroethane	BRL		µg/kg dry	2.6	1	"	"	"	"			
79-00-5	1,1,2-Trichloroethane	BRL		µg/kg dry	2.6	1	"	"	"	"			
79-01-6	Trichloroethene	BRL		µg/kg dry	2.6	1	"	"	"	"			
75-69-4	Trichlorofluoromethane (Freon 11)	BRL		µg/kg dry	2.6	1	"	"	"	"			
96-18-4	1,2,3-Trichloropropane	BRL		µg/kg dry	2.6	1	"	"	"	"			
95-63-6	1,2,4-Trimethylbenzene	BRL		µg/kg dry	2.6	1	"	"	"	"			
108-67-8	1,3,5-Trimethylbenzene	BRL		µg/kg dry	2.6	1	"	"	"	"			
75-01-4	Vinyl chloride	BRL		µg/kg dry	2.6	1	"	"	"	"			
179601-23-1	m,p-Xylene	BRL		µg/kg dry	5.2	1	"	"	"	"			
95-47-6	o-Xylene	BRL		µg/kg dry	2.6	1	"	"	"	"			
109-99-9	Tetrahydrofuran	BRL		µg/kg dry	25.8	1	"	"	"	"			
60-29-7	Ethyl ether	BRL		µg/kg dry	2.6	1	"	"	"	"			
994-05-8	Tert-amyl methyl ether	BRL		µg/kg dry	2.6	1	"	"	"	"			
637-92-3	Ethyl tert-butyl ether	BRL		µg/kg dry	2.6	1	"	"	"	"			
108-20-3	Di-isopropyl ether	BRL		µg/kg dry	2.6	1	"	"	"	"			
75-65-0	Tert-Butanol / butyl alcohol	BRL		µg/kg dry	25.8	1	"	"	"	"			
123-91-1	1,4-Dioxane	BRL		µg/kg dry	51.6	1	"	"	"	"			
110-57-6	trans-1,4-Dichloro-2-butene	BRL		µg/kg dry	12.9	1	"	"	"	"			
64-17-5	Ethanol	BRL		µg/kg dry	1030	1	"	"	"	"			
<i>Surrogate recoveries:</i>													
460-00-4	4-Bromofluorobenzene	89		70-130 %			"	"	"	"			
2037-26-5	Toluene-d8	99		70-130 %			"	"	"	"			
17060-07-0	1,2-Dichloroethane-d4	125		70-130 %			"	"	"	"			
1868-53-7	Dibromofluoromethane	109		70-130 %			"	"	"	"			
<u>VPH Aliphatic/Aromatic Carbon Ranges</u>													
Prepared by method VPH - EPA 5030B													
Initial weight: 16.45 g													
C5-C8 Aliphatic Hydrocarbons													
	BRL			mg/kg dry	0.758	50	+MADEP VPH 5/2004 Rev. 1.1	10-Feb-10	10-Feb-10	1003387			
C9-C12 Aliphatic Hydrocarbons													
	BRL			mg/kg dry	0.253	50	"	"	"	"			
C9-C10 Aromatic Hydrocarbons													
	0.583			mg/kg dry	0.253	50	"	"	"	"			
Unadjusted C5-C8 Aliphatic Hydrocarbons													
	BRL			mg/kg dry	0.758	50	"	"	"	"			
Unadjusted C9-C12 Aliphatic Hydrocarbons													
	0.704			mg/kg dry	0.253	50	"	"	"	"			
<u>VPH Target Analytes</u>													
Prepared by method VPH - EPA 5030B													
Initial weight: 16.45 g													
71-43-2	Benzene	BRL		µg/kg dry	50.5	50	"	"	"	"			
100-41-4	Ethylbenzene	BRL		µg/kg dry	50.5	50	"	"	"	"			
1634-04-4	Methyl tert-butyl ether	BRL		µg/kg dry	50.5	50	"	"	"	"			
91-20-3	Naphthalene	BRL		µg/kg dry	50.5	50	"	"	"	"			

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Sample IdentificationB-1 (10-12)
SB07646-01Client Project #

05-213212

Matrix

Soil

Collection Date/Time

02-Feb-10 08:30

Received

04-Feb-10

<u>CAS No.</u>	<u>Analyte(s)</u>	<u>Result</u>	<u>Flag</u>	<u>Units</u>	<u>*RDL</u>	<u>Dilution</u>	<u>Method Ref.</u>	<u>Prepared</u>	<u>Analyzed</u>	<u>Batch</u>	<u>Cert.</u>		
Volatile Organic Compounds													
VPH Target Analytes													
Prepared by method VPH - EPA 5030B													
108-88-3	Toluene	BRL		µg/kg dry	50.5	50	+MADEP VPH 5/2004 Rev. 1.1	10-Feb-10	10-Feb-10	1003387			
179601-23-1	m,p-Xylene	BRL		µg/kg dry	101	50	"	"	"	"			
95-47-6	o-Xylene	BRL		µg/kg dry	50.5	50	"	"	"	"			
Surrogate recoveries:													
615-59-8	2,5-Dibromotoluene (FID)	89		70-130 %			"	"	"	"			
615-59-8	2,5-Dibromotoluene (PID)	91		70-130 %			"	"	"	"			
Semivolatile Organic Compounds by GC													
Organochlorine Pesticides SW846 8081A													
Prepared by method SW846 3545A													
319-84-6	alpha-BHC	BRL		µg/kg dry	5.14	1	SW846 8081A	11-Feb-10	12-Feb-10	1003462			
319-85-7	beta-BHC	BRL		µg/kg dry	5.14	1	"	"	"	"			
319-86-8	delta-BHC	BRL		µg/kg dry	5.14	1	"	"	"	"			
58-89-9	gamma-BHC (Lindane)	BRL		µg/kg dry	5.14	1	"	"	"	"			
76-44-8	Heptachlor	BRL		µg/kg dry	5.14	1	"	"	"	"			
309-00-2	Aldrin	BRL		µg/kg dry	5.14	1	"	"	"	"			
1024-57-3	Heptachlor epoxide	BRL		µg/kg dry	5.14	1	"	"	"	"			
959-98-8	Endosulfan I	BRL		µg/kg dry	5.14	1	"	"	"	"			
60-57-1	Dieldrin	BRL		µg/kg dry	5.14	1	"	"	"	"			
72-55-9	4,4'-DDE (p,p')	BRL		µg/kg dry	5.14	1	"	"	"	"			
72-20-8	Endrin	BRL		µg/kg dry	8.22	1	"	"	"	"			
33213-65-9	Endosulfan II	BRL		µg/kg dry	8.22	1	"	"	"	"			
72-54-8	4,4'-DDD (p,p')	BRL		µg/kg dry	8.22	1	"	"	"	"			
1031-07-8	Endosulfan sulfate	BRL		µg/kg dry	8.22	1	"	"	"	"			
50-29-3	4,4'-DDT (p,p')	BRL		µg/kg dry	8.22	1	"	"	"	"			
72-43-5	Methoxychlor	BRL		µg/kg dry	8.22	1	"	"	"	"			
53494-70-5	Endrin ketone	BRL		µg/kg dry	8.22	1	"	"	"	"			
7421-93-4	Endrin aldehyde	BRL		µg/kg dry	8.22	1	"	"	"	"			
5103-71-9	alpha-Chlordane	BRL		µg/kg dry	5.14	1	"	"	"	"			
5566-34-7	gamma-Chlordane	BRL		µg/kg dry	5.14	1	"	"	"	"			
8001-35-2	Toxaphene	BRL		µg/kg dry	103	1	"	"	"	"			
57-74-9	Chlordane	BRL		µg/kg dry	20.5	1	"	"	"	"			
2303-16-4	Diallate	BRL		µg/kg dry	10.3	1	"	"	"	"			
15972-60-8	Alachlor	BRL		µg/kg dry	5.14	1	"	"	"	"			
465-73-6	Isodrin	BRL		µg/kg dry	10.3	1	"	"	"	"			
510-15-6	Chlorobenzilate	BRL		µg/kg dry	10.3	1	"	"	"	"			
Surrogate recoveries:													
10386-84-2	4,4-DB-Octafluorobiphenyl (Sr)	47		30-150 %			"	"	"	"			
10386-84-2	4,4-DB-Octafluorobiphenyl (Sr) [2C]	47		30-150 %			"	"	"	"			
2051-24-3	Decachlorobiphenyl (Sr)	78		30-150 %			"	"	"	"			
2051-24-3	Decachlorobiphenyl (Sr) [2C]	95		30-150 %			"	"	"	"			
Polychlorinated Biphenyls by SW846 8082													
Prepared by method SW846 3545A													
12674-11-2	Aroclor-1016	BRL		µg/kg dry	20.5	1	SW846 8082	11-Feb-10	12-Feb-10	1003463			
11104-28-2	Aroclor-1221	BRL		µg/kg dry	20.5	1	"	"	"	"			
11141-16-5	Aroclor-1232	BRL		µg/kg dry	20.5	1	"	"	"	"			
53469-21-9	Aroclor-1242	BRL		µg/kg dry	20.5	1	"	"	"	"			
12672-29-6	Aroclor-1248	BRL		µg/kg dry	20.5	1	"	"	"	"			
11097-69-1	Aroclor-1254	BRL		µg/kg dry	20.5	1	"	"	"	"			

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Page 8 of 62

Sample IdentificationB-1 (10-12)
SB07646-01Client Project #

05-213212

Matrix

Soil

Collection Date/Time

02-Feb-10 08:30

Received

04-Feb-10

<u>CAS No.</u>	<u>Analyte(s)</u>	<u>Result</u>	<u>Flag</u>	<u>Units</u>	<u>*RDL</u>	<u>Dilution</u>	<u>Method Ref.</u>	<u>Prepared</u>	<u>Analyzed</u>	<u>Batch</u>	<u>Cert.</u>
Semivolatile Organic Compounds by GC											
Polychlorinated Biphenyls by SW846 8082											
Prepared by method SW846 3545A											
11096-82-5	Aroclor-1260	BRL		µg/kg dry	20.5	1	SW846 8082	11-Feb-10	12-Feb-10	1003463	
37324-23-5	Aroclor-1262	BRL		µg/kg dry	20.5	1	"	"	"	"	"
11100-14-4	Aroclor-1268	BRL		µg/kg dry	20.5	1	"	"	"	"	"
Surrogate recoveries:											
10386-84-2	4,4-DB-Octafluorobiphenyl (Sr)	54		30-150 %			"	"	"	"	"
10386-84-2	4,4-DB-Octafluorobiphenyl (Sr) [2C]	68		30-150 %			"	"	"	"	"
2051-24-3	Decachlorobiphenyl (Sr)	101		30-150 %			"	"	"	"	"
2051-24-3	Decachlorobiphenyl (Sr) [2C]	99		30-150 %			"	"	"	"	"
Extractable Petroleum Hydrocarbons											
EPH Aliphatic/Aromatic Ranges											
Prepared by method SW846 3545A											
	C9-C18 Aliphatic Hydrocarbons	BRL		mg/kg dry	10.5	1	+MADEP EPH 5/2004 R	09-Feb-10	12-Feb-10	1003308	
	C19-C36 Aliphatic Hydrocarbons	BRL		mg/kg dry	10.5	1	"	"	"	"	"
	C11-C22 Aromatic Hydrocarbons	BRL		mg/kg dry	10.5	1	"	"	"	"	"
	Unadjusted C11-C22 Aromatic Hydrocarbons	BRL		mg/kg dry	10.5	1	"	"	"	"	"
	Total Petroleum Hydrocarbons	BRL		mg/kg dry	10.5	1	"	"	"	"	"
	Unadjusted Total Petroleum Hydrocarbons	BRL		mg/kg dry	10.5	1	"	"	"	"	"
EPH Target PAH Analytes											
Prepared by method SW846 3545A											
91-20-3	Naphthalene	BRL		µg/kg dry	349	1	"	"	"	"	"
91-57-6	2-Methylnaphthalene	BRL		µg/kg dry	349	1	"	"	"	"	"
208-96-8	Acenaphthylene	BRL		µg/kg dry	349	1	"	"	"	"	"
83-32-9	Acenaphthene	BRL		µg/kg dry	349	1	"	"	"	"	"
86-73-7	Fluorene	BRL		µg/kg dry	349	1	"	"	"	"	"
85-01-8	Phenanthrene	BRL		µg/kg dry	349	1	"	"	"	"	"
120-12-7	Anthracene	BRL		µg/kg dry	349	1	"	"	"	"	"
206-44-0	Fluoranthene	BRL		µg/kg dry	349	1	"	"	"	"	"
129-00-0	Pyrene	BRL		µg/kg dry	349	1	"	"	"	"	"
56-55-3	Benzo (a) anthracene	BRL		µg/kg dry	349	1	"	"	"	"	"
218-01-9	Chrysene	BRL		µg/kg dry	349	1	"	"	"	"	"
205-99-2	Benzo (b) fluoranthene	BRL		µg/kg dry	349	1	"	"	"	"	"
207-08-9	Benzo (k) fluoranthene	BRL		µg/kg dry	349	1	"	"	"	"	"
50-32-8	Benzo (a) pyrene	BRL		µg/kg dry	349	1	"	"	"	"	"
193-39-5	Indeno (1,2,3-cd) pyrene	BRL		µg/kg dry	349	1	"	"	"	"	"
53-70-3	Dibenzo (a,h) anthracene	BRL		µg/kg dry	349	1	"	"	"	"	"
191-24-2	Benzo (g,h,i) perylene	BRL		µg/kg dry	349	1	"	"	"	"	"
Surrogate recoveries:											
3386-33-2	1-Chlorooctadecane	75		40-140 %			"	"	"	"	"
84-15-1	Ortho-Terphenyl	57		40-140 %			"	"	"	"	"
321-60-8	2-Fluorobiphenyl	66		40-140 %			"	"	"	"	"
Total Metals by EPA 6000/7000 Series Methods											
7440-22-4	Silver	BRL		mg/kg dry	1.57	1	SW846 6010B	16-Feb-10	17-Feb-10	1003678	
7440-38-2	Arsenic	4.65		mg/kg dry	1.57	1	"	"	"	"	"
7440-39-3	Barium	83.3		mg/kg dry	1.05	1	"	"	"	"	"
7440-43-9	Cadmium	BRL		mg/kg dry	0.524	1	"	"	"	"	"
7440-47-3	Chromium	41.2		mg/kg dry	1.05	1	"	"	"	"	"
7439-97-6	Mercury	BRL		mg/kg dry	0.0310	1	SW846 7471A	"	17-Feb-10	1003679	

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* Reportable Detection Limit

BRL = Below Reporting Limit

Page 9 of 62

Sample Identification

B-1 (10-12)
SB07646-01

Client Project #

05-213212

Matrix

Soil

Collection Date/Time

02-Feb-10 08:30

Received

04-Feb-10

CAS No.	Analyte(s)	Result	Flag	Units	*RDL	Dilution	Method Ref.	Prepared	Analyzed	Batch	Cert.
Total Metals by EPA 6000/7000 Series Methods											
7439-92-1	Lead	5.41		mg/kg dry	1.57	1	SW846 6010B	16-Feb-10	17-Feb-10	1003678	
7782-49-2	Selenium	3.17		mg/kg dry	1.57	1	"	"	"	"	
General Chemistry Parameters											
	% Solids	95.1		%		1	SM2540 G Mod.	09-Feb-10	10-Feb-10	1003360	

Sample IdentificationB-2 (0.5-1)
SB07646-02Client Project #
05-213212Matrix
SoilCollection Date/Time
02-Feb-10 09:30Received
04-Feb-10

CAS No.	Analyte(s)	Result	Flag	Units	*RDL	Dilution	Method Ref.	Prepared	Analyzed	Batch	Cert.
Semivolatile Organic Compounds by GC											
<u>Organochlorine Pesticides SW846 8081A</u>											
Prepared by method SW846 3545A											
319-84-6	alpha-BHC	BRL		µg/kg dry	5.29	1	SW846 8081A	11-Feb-10	12-Feb-10	1003462	
319-85-7	beta-BHC	BRL		µg/kg dry	5.29	1	"	"	"	"	
319-86-8	delta-BHC	BRL		µg/kg dry	5.29	1	"	"	"	"	
58-89-9	gamma-BHC (Lindane)	BRL		µg/kg dry	5.29	1	"	"	"	"	
76-44-8	Heptachlor	BRL		µg/kg dry	5.29	1	"	"	"	"	
309-00-2	Aldrin	BRL		µg/kg dry	5.29	1	"	"	"	"	
1024-57-3	Heptachlor epoxide	BRL		µg/kg dry	5.29	1	"	"	"	"	
959-98-8	Endosulfan I	BRL		µg/kg dry	5.29	1	"	"	"	"	
60-57-1	Dieldrin	BRL		µg/kg dry	5.29	1	"	"	"	"	
72-55-9	4,4'-DDE (p,p')	BRL		µg/kg dry	5.29	1	"	"	"	"	
72-20-8	Endrin	BRL		µg/kg dry	8.47	1	"	"	"	"	
33213-65-9	Endosulfan II	BRL		µg/kg dry	8.47	1	"	"	"	"	
72-54-8	4,4'-DDD (p,p')	BRL		µg/kg dry	8.47	1	"	"	"	"	
1031-07-8	Endosulfan sulfate	BRL		µg/kg dry	8.47	1	"	"	"	"	
50-29-3	4,4'-DDT (p,p')	BRL		µg/kg dry	8.47	1	"	"	"	"	
72-43-5	Methoxychlor	BRL		µg/kg dry	8.47	1	"	"	"	"	
53494-70-5	Endrin ketone	BRL		µg/kg dry	8.47	1	"	"	"	"	
7421-93-4	Endrin aldehyde	BRL		µg/kg dry	8.47	1	"	"	"	"	
5103-71-9	alpha-Chlordane	BRL		µg/kg dry	5.29	1	"	"	"	"	
5566-34-7	gamma-Chlordane	BRL		µg/kg dry	5.29	1	"	"	"	"	
8001-35-2	Toxaphene	BRL		µg/kg dry	106	1	"	"	"	"	
57-74-9	Chlordane	BRL		µg/kg dry	21.2	1	"	"	"	"	
2303-16-4	Diallate	BRL		µg/kg dry	10.6	1	"	"	"	"	
15972-60-8	Alachlor	BRL		µg/kg dry	5.29	1	"	"	"	"	
465-73-6	Isodrin	BRL		µg/kg dry	10.6	1	"	"	"	"	
510-15-6	Chlorobenzilate	BRL		µg/kg dry	10.6	1	"	"	"	"	
<i>Surrogate recoveries:</i>											
10386-84-2	4,4-DB-Octafluorobiphenyl (Sr)	59		30-150 %			"	"	"	"	
10386-84-2	4,4-DB-Octafluorobiphenyl (Sr) [2C]	52		30-150 %			"	"	"	"	
2051-24-3	Decachlorobiphenyl (Sr)	78		30-150 %			"	"	"	"	
2051-24-3	Decachlorobiphenyl (Sr) [2C]	97		30-150 %			"	"	"	"	
Total Metals by EPA 6000/7000 Series Methods											
7440-38-2	Arsenic	13.2		mg/kg dry	1.36	1	SW846 6010B	16-Feb-10	17-Feb-10	1003678	
7439-92-1	Lead	17.4		mg/kg dry	1.36	1	"	"	"	"	
General Chemistry Parameters											
% Solids		92.2		%		1	SM2540 G Mod.	09-Feb-10	10-Feb-10	1003360	

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* Reportable Detection Limit

BRL = Below Reporting Limit

Page 11 of 62

Sample Identification

B-2 (1-3)

SB07646-03

Client Project #

05-213212

Matrix

Soil

Collection Date/Time

02-Feb-10 09:45

Received

04-Feb-10

CAS No.	Analyte(s)	Result	Flag	Units	*RDL	Dilution	Method Ref.	Prepared	Analyzed	Batch	Cert.
Semivolatile Organic Compounds by GC											
<u>Organochlorine Pesticides SW846 8081A</u>											
Prepared by method SW846 3545A											
319-84-6	alpha-BHC	BRL		µg/kg dry	5.17	1	SW846 8081A	11-Feb-10	12-Feb-10	1003462	
319-85-7	beta-BHC	BRL		µg/kg dry	5.17	1	"	"	"	"	
319-86-8	delta-BHC	BRL		µg/kg dry	5.17	1	"	"	"	"	
58-89-9	gamma-BHC (Lindane)	BRL		µg/kg dry	5.17	1	"	"	"	"	
76-44-8	Heptachlor	BRL		µg/kg dry	5.17	1	"	"	"	"	
309-00-2	Aldrin	BRL		µg/kg dry	5.17	1	"	"	"	"	
1024-57-3	Heptachlor epoxide	BRL		µg/kg dry	5.17	1	"	"	"	"	
959-98-8	Endosulfan I	BRL		µg/kg dry	5.17	1	"	"	"	"	
60-57-1	Dieldrin	BRL		µg/kg dry	5.17	1	"	"	"	"	
72-55-9	4,4'-DDE (p,p')	BRL		µg/kg dry	5.17	1	"	"	"	"	
72-20-8	Endrin	BRL		µg/kg dry	8.28	1	"	"	"	"	
33213-65-9	Endosulfan II	BRL		µg/kg dry	8.28	1	"	"	"	"	
72-54-8	4,4'-DDD (p,p')	BRL		µg/kg dry	8.28	1	"	"	"	"	
1031-07-8	Endosulfan sulfate	BRL		µg/kg dry	8.28	1	"	"	"	"	
50-29-3	4,4'-DDT (p,p')	BRL		µg/kg dry	8.28	1	"	"	"	"	
72-43-5	Methoxychlor	BRL		µg/kg dry	8.28	1	"	"	"	"	
53494-70-5	Endrin ketone	BRL		µg/kg dry	8.28	1	"	"	"	"	
7421-93-4	Endrin aldehyde	BRL		µg/kg dry	8.28	1	"	"	"	"	
5103-71-9	alpha-Chlordane	BRL		µg/kg dry	5.17	1	"	"	"	"	
5566-34-7	gamma-Chlordane	BRL		µg/kg dry	5.17	1	"	"	"	"	
8001-35-2	Toxaphene	BRL		µg/kg dry	103	1	"	"	"	"	
57-74-9	Chlordane	BRL		µg/kg dry	20.7	1	"	"	"	"	
2303-16-4	Diallate	BRL		µg/kg dry	10.3	1	"	"	"	"	
15972-60-8	Alachlor	BRL		µg/kg dry	5.17	1	"	"	"	"	
465-73-6	Isodrin	BRL		µg/kg dry	10.3	1	"	"	"	"	
510-15-6	Chlorobenzilate	BRL		µg/kg dry	10.3	1	"	"	"	"	
<i>Surrogate recoveries:</i>											
10386-84-2	4,4-DB-Octafluorobiphenyl (Sr)	48		30-150 %			"	"	"	"	
10386-84-2	4,4-DB-Octafluorobiphenyl (Sr) [2C]	43		30-150 %			"	"	"	"	
2051-24-3	Decachlorobiphenyl (Sr)	70		30-150 %			"	"	"	"	
2051-24-3	Decachlorobiphenyl (Sr) [2C]	90		30-150 %			"	"	"	"	
Total Metals by EPA 6000/7000 Series Methods											
7440-38-2	Arsenic	8.99		mg/kg dry	1.54	1	SW846 6010B	16-Feb-10	17-Feb-10	1003678	
7439-92-1	Lead	8.53		mg/kg dry	1.54	1	"	"	"	"	
General Chemistry Parameters											
% Solids		89.1		%		1	SM2540 G Mod.	09-Feb-10	10-Feb-10	1003360	

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* Reportable Detection Limit

BRL = Below Reporting Limit

Page 12 of 62

Sample Identification

B-3 (5-7)

SB07646-04

Client Project #

05-213212

Matrix

Soil

Collection Date/Time

02-Feb-10 13:15

Received

04-Feb-10

<u>CAS No.</u>	<u>Analyte(s)</u>	<u>Result</u>	<u>Flag</u>	<u>Units</u>	<u>*RDL</u>	<u>Dilution</u>	<u>Method Ref.</u>	<u>Prepared</u>	<u>Analyzed</u>	<u>Batch</u>	<u>Cert.</u>		
Volatile Organic Compounds													
	VOC Extraction	Field extracted		N/A		1	VOC Soil Extraction	05-Feb-10	05-Feb-10	1003187			
VPH Aliphatic/Aromatic Carbon Ranges													
Prepared by method VPH - EPA 5030B													
	C5-C8 Aliphatic Hydrocarbons	2.25		mg/kg dry	0.940	50	+MADEP VPH 5/2004 Rev. 1.1	10-Feb-10	10-Feb-10	1003387			
	C9-C12 Aliphatic Hydrocarbons	BRL		mg/kg dry	0.313	50	"	"	"	"			
	C9-C10 Aromatic Hydrocarbons	BRL		mg/kg dry	0.313	50	"	"	"	"			
	Unadjusted C5-C8 Aliphatic Hydrocarbons	2.30		mg/kg dry	0.940	50	"	"	"	"			
	Unadjusted C9-C12 Aliphatic Hydrocarbons	BRL		mg/kg dry	0.313	50	"	"	"	"			
VPH Target Analytes													
Prepared by method VPH - EPA 5030B													
71-43-2	Benzene	BRL		µg/kg dry	62.6	50	"	"	"	"			
100-41-4	Ethylbenzene	BRL		µg/kg dry	62.6	50	"	"	"	"			
1634-04-4	Methyl tert-butyl ether	BRL		µg/kg dry	62.6	50	"	"	"	"			
91-20-3	Naphthalene	BRL		µg/kg dry	62.6	50	"	"	"	"			
108-88-3	Toluene	BRL		µg/kg dry	62.6	50	"	"	"	"			
179601-23-1	m,p-Xylene	BRL		µg/kg dry	125	50	"	"	"	"			
95-47-6	o-Xylene	BRL		µg/kg dry	62.6	50	"	"	"	"			
<i>Surrogate recoveries:</i>													
615-59-8	2,5-Dibromotoluene (FID)	84		70-130 %			"	"	"	"			
615-59-8	2,5-Dibromotoluene (PID)	86		70-130 %			"	"	"	"			
Extractable Petroleum Hydrocarbons													
EPH Aliphatic/Aromatic Ranges													
Prepared by method SW846 3545A													
	C9-C18 Aliphatic Hydrocarbons	BRL		mg/kg dry	11.0	1	+MADEP EPH 5/2004 R	09-Feb-10	12-Feb-10	1003308			
	C19-C36 Aliphatic Hydrocarbons	BRL		mg/kg dry	11.0	1	"	"	"	"			
	C11-C22 Aromatic Hydrocarbons	BRL		mg/kg dry	11.0	1	"	"	"	"			
	Unadjusted C11-C22 Aromatic Hydrocarbons	BRL		mg/kg dry	11.0	1	"	"	"	"			
	Total Petroleum Hydrocarbons	BRL		mg/kg dry	11.0	1	"	"	"	"			
	Unadjusted Total Petroleum Hydrocarbons	BRL		mg/kg dry	11.0	1	"	"	"	"			
EPH Target PAH Analytes													
Prepared by method SW846 3545A													
91-20-3	Naphthalene	BRL		µg/kg dry	366	1	"	"	"	"			
91-57-6	2-Methylnaphthalene	BRL		µg/kg dry	366	1	"	"	"	"			
208-96-8	Acenaphthylene	BRL		µg/kg dry	366	1	"	"	"	"			
83-32-9	Acenaphthene	BRL		µg/kg dry	366	1	"	"	"	"			
86-73-7	Fluorene	BRL		µg/kg dry	366	1	"	"	"	"			
85-01-8	Phenanthrene	BRL		µg/kg dry	366	1	"	"	"	"			
120-12-7	Anthracene	BRL		µg/kg dry	366	1	"	"	"	"			
206-44-0	Fluoranthene	BRL		µg/kg dry	366	1	"	"	"	"			
129-00-0	Pyrene	BRL		µg/kg dry	366	1	"	"	"	"			
56-55-3	Benzo (a) anthracene	BRL		µg/kg dry	366	1	"	"	"	"			
218-01-9	Chrysene	BRL		µg/kg dry	366	1	"	"	"	"			
205-99-2	Benzo (b) fluoranthene	BRL		µg/kg dry	366	1	"	"	"	"			
207-08-9	Benzo (k) fluoranthene	BRL		µg/kg dry	366	1	"	"	"	"			
50-32-8	Benzo (a) pyrene	BRL		µg/kg dry	366	1	"	"	"	"			
193-39-5	Indeno (1,2,3-cd) pyrene	BRL		µg/kg dry	366	1	"	"	"	"			
53-70-3	Dibenzo (a,h) anthracene	BRL		µg/kg dry	366	1	"	"	"	"			

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* Reportable Detection Limit

BRL = Below Reporting Limit

Page 13 of 62

Sample Identification

B-3 (5-7)

SB07646-04

Client Project #

05-213212

Matrix

Soil

Collection Date/Time

02-Feb-10 13:15

Received

04-Feb-10

<u>CAS No.</u>	<u>Analyte(s)</u>	<u>Result</u>	<u>Flag</u>	<u>Units</u>	<u>*RDL</u>	<u>Dilution</u>	<u>Method Ref.</u>	<u>Prepared</u>	<u>Analyzed</u>	<u>Batch</u>	<u>Cert.</u>
Extractable Petroleum Hydrocarbons											
EPH Target PAH Analytes											
Prepared by method SW846 3545A											
191-24-2	Benzo (g,h,i) perylene	BRL		µg/kg dry	366	1	+MADEP EPH 5/2004 R	09-Feb-10	12-Feb-10	1003308	
<i>Surrogate recoveries:</i>											
3386-33-2	1-Chlorooctadecane	65		40-140 %			"	"	"	"	"
84-15-1	Ortho-Terphenyl	61		40-140 %			"	"	"	"	"
321-60-8	2-Fluorobiphenyl	70		40-140 %			"	"	"	"	"
General Chemistry Parameters											
% Solids		90.7		%		1	SM2540 G Mod.	09-Feb-10	10-Feb-10	1003360	

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* Reportable Detection Limit

BRL = Below Reporting Limit

Page 14 of 62

Sample IdentificationB-4 (0.5-1)
SB07646-05Client Project #
05-213212Matrix
SoilCollection Date/Time
02-Feb-10 10:10Received
04-Feb-10

CAS No.	Analyte(s)	Result	Flag	Units	*RDL	Dilution	Method Ref.	Prepared	Analyzed	Batch	Cert.
Semivolatile Organic Compounds by GC											
<u>Organochlorine Pesticides SW846 8081A</u>											
Prepared by method SW846 3545A											
319-84-6	alpha-BHC	BRL		µg/kg dry	5.70	1	SW846 8081A	11-Feb-10	12-Feb-10	1003462	
319-85-7	beta-BHC	BRL		µg/kg dry	5.70	1	"	"	"	"	
319-86-8	delta-BHC	BRL		µg/kg dry	5.70	1	"	"	"	"	
58-89-9	gamma-BHC (Lindane)	BRL		µg/kg dry	5.70	1	"	"	"	"	
76-44-8	Heptachlor	BRL		µg/kg dry	5.70	1	"	"	"	"	
309-00-2	Aldrin	BRL		µg/kg dry	5.70	1	"	"	"	"	
1024-57-3	Heptachlor epoxide	BRL		µg/kg dry	5.70	1	"	"	"	"	
959-98-8	Endosulfan I	BRL		µg/kg dry	5.70	1	"	"	"	"	
60-57-1	Dieldrin	BRL		µg/kg dry	5.70	1	"	"	"	"	
72-55-9	4,4'-DDE (p,p')	BRL		µg/kg dry	5.70	1	"	"	"	"	
72-20-8	Endrin	BRL		µg/kg dry	9.11	1	"	"	"	"	
33213-65-9	Endosulfan II	BRL		µg/kg dry	9.11	1	"	"	"	"	
72-54-8	4,4'-DDD (p,p')	BRL		µg/kg dry	9.11	1	"	"	"	"	
1031-07-8	Endosulfan sulfate	BRL		µg/kg dry	9.11	1	"	"	"	"	
50-29-3	4,4'-DDT (p,p')	BRL		µg/kg dry	9.11	1	"	"	"	"	
72-43-5	Methoxychlor	BRL		µg/kg dry	9.11	1	"	"	"	"	
53494-70-5	Endrin ketone	BRL		µg/kg dry	9.11	1	"	"	"	"	
7421-93-4	Endrin aldehyde	BRL		µg/kg dry	9.11	1	"	"	"	"	
5103-71-9	alpha-Chlordane	BRL		µg/kg dry	5.70	1	"	"	"	"	
5566-34-7	gamma-Chlordane	BRL		µg/kg dry	5.70	1	"	"	"	"	
8001-35-2	Toxaphene	BRL		µg/kg dry	114	1	"	"	"	"	
57-74-9	Chlordane	BRL		µg/kg dry	22.8	1	"	"	"	"	
2303-16-4	Diallate	BRL		µg/kg dry	11.4	1	"	"	"	"	
15972-60-8	Alachlor	BRL		µg/kg dry	5.70	1	"	"	"	"	
465-73-6	Isodrin	BRL		µg/kg dry	11.4	1	"	"	"	"	
510-15-6	Chlorobenzilate	BRL		µg/kg dry	11.4	1	"	"	"	"	
<i>Surrogate recoveries:</i>											
10386-84-2	4,4-DB-Octafluorobiphenyl (Sr)	49		30-150 %			"	"	"	"	
10386-84-2	4,4-DB-Octafluorobiphenyl (Sr) [2C]	43		30-150 %			"	"	"	"	
2051-24-3	Decachlorobiphenyl (Sr)	74		30-150 %			"	"	"	"	
2051-24-3	Decachlorobiphenyl (Sr) [2C]	86		30-150 %			"	"	"	"	
Total Metals by EPA 6000/7000 Series Methods											
7440-38-2	Arsenic	22.6		mg/kg dry	1.67	1	SW846 6010B	16-Feb-10	17-Feb-10	1003678	
7439-92-1	Lead	23.4		mg/kg dry	1.67	1	"	"	"	"	
General Chemistry Parameters											
% Solids	83.9		%		1		SM2540 G Mod.	11-Feb-10	11-Feb-10	1003494	

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* Reportable Detection Limit

BRL = Below Reporting Limit

Page 15 of 62

Sample Identification

B-4 (1-3)

SB07646-06

Client Project #

05-213212

Matrix

Soil

Collection Date/Time

02-Feb-10 10:35

Received

04-Feb-10

CAS No.	Analyte(s)	Result	Flag	Units	*RDL	Dilution	Method Ref.	Prepared	Analyzed	Batch	Cert.
Semivolatile Organic Compounds by GC											
<u>Organochlorine Pesticides SW846 8081A</u>											
Prepared by method SW846 3545A											
319-84-6	alpha-BHC	BRL		µg/kg dry	5.81	1	SW846 8081A	11-Feb-10	12-Feb-10	1003462	
319-85-7	beta-BHC	BRL		µg/kg dry	5.81	1	"	"	"	"	
319-86-8	delta-BHC	BRL		µg/kg dry	5.81	1	"	"	"	"	
58-89-9	gamma-BHC (Lindane)	BRL		µg/kg dry	5.81	1	"	"	"	"	
76-44-8	Heptachlor	BRL		µg/kg dry	5.81	1	"	"	"	"	
309-00-2	Aldrin	BRL		µg/kg dry	5.81	1	"	"	"	"	
1024-57-3	Heptachlor epoxide	BRL		µg/kg dry	5.81	1	"	"	"	"	
959-98-8	Endosulfan I	BRL		µg/kg dry	5.81	1	"	"	"	"	
60-57-1	Dieldrin	BRL		µg/kg dry	5.81	1	"	"	"	"	
72-55-9	4,4'-DDE (p,p')	BRL		µg/kg dry	5.81	1	"	"	"	"	
72-20-8	Endrin	BRL		µg/kg dry	9.29	1	"	"	"	"	
33213-65-9	Endosulfan II	BRL		µg/kg dry	9.29	1	"	"	"	"	
72-54-8	4,4'-DDD (p,p')	BRL		µg/kg dry	9.29	1	"	"	"	"	
1031-07-8	Endosulfan sulfate	BRL		µg/kg dry	9.29	1	"	"	"	"	
50-29-3	4,4'-DDT (p,p')	BRL		µg/kg dry	9.29	1	"	"	"	"	
72-43-5	Methoxychlor	BRL		µg/kg dry	9.29	1	"	"	"	"	
53494-70-5	Endrin ketone	BRL		µg/kg dry	9.29	1	"	"	"	"	
7421-93-4	Endrin aldehyde	BRL		µg/kg dry	9.29	1	"	"	"	"	
5103-71-9	alpha-Chlordane	BRL		µg/kg dry	5.81	1	"	"	"	"	
5566-34-7	gamma-Chlordane	BRL		µg/kg dry	5.81	1	"	"	"	"	
8001-35-2	Toxaphene	BRL		µg/kg dry	116	1	"	"	"	"	
57-74-9	Chlordane	BRL		µg/kg dry	23.2	1	"	"	"	"	
2303-16-4	Diallate	BRL		µg/kg dry	11.6	1	"	"	"	"	
15972-60-8	Alachlor	BRL		µg/kg dry	5.81	1	"	"	"	"	
465-73-6	Isodrin	BRL		µg/kg dry	11.6	1	"	"	"	"	
510-15-6	Chlorobenzilate	BRL		µg/kg dry	11.6	1	"	"	"	"	
<i>Surrogate recoveries:</i>											
10386-84-2	4,4-DB-Octafluorobiphenyl (Sr)	56		30-150 %			"	"	"	"	
10386-84-2	4,4-DB-Octafluorobiphenyl (Sr) [2C]	56		30-150 %			"	"	"	"	
2051-24-3	Decachlorobiphenyl (Sr)	85		30-150 %			"	"	"	"	
2051-24-3	Decachlorobiphenyl (Sr) [2C]	109		30-150 %			"	"	"	"	
Total Metals by EPA 6000/7000 Series Methods											
7440-38-2	Arsenic	8.84		mg/kg dry	1.61	1	SW846 6010B	16-Feb-10	17-Feb-10	1003678	
7439-92-1	Lead	6.04		mg/kg dry	1.61	1	"	"	"	"	
General Chemistry Parameters											
% Solids		84.7		%		1	SM2540 G Mod.	11-Feb-10	11-Feb-10	1003494	

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* Reportable Detection Limit

BRL = Below Reporting Limit

Page 16 of 62

Sample Identification

B-4 (5-7)

SB07646-07

Client Project #

05-213212

Matrix

Soil

Collection Date/Time

02-Feb-10 11:00

Received

04-Feb-10

<u>CAS No.</u>	<u>Analyte(s)</u>	<u>Result</u>	<u>Flag</u>	<u>Units</u>	<u>*RDL</u>	<u>Dilution</u>	<u>Method Ref.</u>	<u>Prepared</u>	<u>Analyzed</u>	<u>Batch</u>	<u>Cert.</u>
Volatile Organic Compounds											
	VOC Extraction	Field extracted		N/A		1	VOC Soil Extraction	05-Feb-10	05-Feb-10	1003187	
Volatile Organic Compounds											
Prepared by method SW846 5035A Soil (low level)											
76-13-1	1,1,2-Trichlorotrifluoroethane (Freon 113)	BRL		µg/kg dry	3.2	1	SW846 8260B	09-Feb-10	10-Feb-10	1003324	
67-64-1	Acetone	BRL		µg/kg dry	31.7	1	"	"	"	"	"
107-13-1	Acrylonitrile	BRL		µg/kg dry	3.2	1	"	"	"	"	"
71-43-2	Benzene	BRL		µg/kg dry	3.2	1	"	"	"	"	"
108-86-1	Bromobenzene	BRL		µg/kg dry	3.2	1	"	"	"	"	"
74-97-5	Bromochloromethane	BRL		µg/kg dry	3.2	1	"	"	"	"	"
75-27-4	Bromodichloromethane	BRL		µg/kg dry	3.2	1	"	"	"	"	"
75-25-2	Bromoform	BRL		µg/kg dry	3.2	1	"	"	"	"	"
74-83-9	Bromomethane	BRL		µg/kg dry	6.3	1	"	"	"	"	"
78-93-3	2-Butanone (MEK)	BRL		µg/kg dry	31.7	1	"	"	"	"	"
104-51-8	n-Butylbenzene	BRL		µg/kg dry	3.2	1	"	"	"	"	"
135-98-8	sec-Butylbenzene	BRL		µg/kg dry	3.2	1	"	"	"	"	"
98-06-6	tert-Butylbenzene	BRL		µg/kg dry	3.2	1	"	"	"	"	"
75-15-0	Carbon disulfide	BRL		µg/kg dry	15.8	1	"	"	"	"	"
56-23-5	Carbon tetrachloride	BRL		µg/kg dry	3.2	1	"	"	"	"	"
108-90-7	Chlorobenzene	BRL		µg/kg dry	3.2	1	"	"	"	"	"
75-00-3	Chloroethane	BRL		µg/kg dry	6.3	1	"	"	"	"	"
67-66-3	Chloroform	BRL		µg/kg dry	3.2	1	"	"	"	"	"
74-87-3	Chloromethane	BRL		µg/kg dry	6.3	1	"	"	"	"	"
95-49-8	2-Chlorotoluene	BRL		µg/kg dry	3.2	1	"	"	"	"	"
106-43-4	4-Chlorotoluene	BRL		µg/kg dry	3.2	1	"	"	"	"	"
96-12-8	1,2-Dibromo-3-chloropropane	BRL		µg/kg dry	6.3	1	"	"	"	"	"
124-48-1	Dibromochloromethane	BRL		µg/kg dry	3.2	1	"	"	"	"	"
106-93-4	1,2-Dibromoethane (EDB)	BRL		µg/kg dry	3.2	1	"	"	"	"	"
74-95-3	Dibromomethane	BRL		µg/kg dry	3.2	1	"	"	"	"	"
95-50-1	1,2-Dichlorobenzene	BRL		µg/kg dry	3.2	1	"	"	"	"	"
541-73-1	1,3-Dichlorobenzene	BRL		µg/kg dry	3.2	1	"	"	"	"	"
106-46-7	1,4-Dichlorobenzene	BRL		µg/kg dry	3.2	1	"	"	"	"	"
75-71-8	Dichlorodifluoromethane (Freon12)	BRL		µg/kg dry	6.3	1	"	"	"	"	"
75-34-3	1,1-Dichloroethane	BRL		µg/kg dry	3.2	1	"	"	"	"	"
107-06-2	1,2-Dichloroethane	BRL		µg/kg dry	3.2	1	"	"	"	"	"
75-35-4	1,1-Dichloroethene	BRL		µg/kg dry	3.2	1	"	"	"	"	"
156-59-2	cis-1,2-Dichloroethene	BRL		µg/kg dry	3.2	1	"	"	"	"	"
156-60-5	trans-1,2-Dichloroethene	BRL		µg/kg dry	3.2	1	"	"	"	"	"
78-87-5	1,2-Dichloropropane	BRL		µg/kg dry	3.2	1	"	"	"	"	"
142-28-9	1,3-Dichloropropane	BRL		µg/kg dry	3.2	1	"	"	"	"	"
594-20-7	2,2-Dichloropropane	BRL		µg/kg dry	3.2	1	"	"	"	"	"
563-58-6	1,1-Dichloropropene	BRL		µg/kg dry	3.2	1	"	"	"	"	"
10061-01-5	cis-1,3-Dichloropropene	BRL		µg/kg dry	3.2	1	"	"	"	"	"
10061-02-6	trans-1,3-Dichloropropene	BRL		µg/kg dry	3.2	1	"	"	"	"	"
100-41-4	Ethylbenzene	BRL		µg/kg dry	3.2	1	"	"	"	"	"
87-68-3	Hexachlorobutadiene	BRL		µg/kg dry	3.2	1	"	"	"	"	"
591-78-6	2-Hexanone (MBK)	BRL		µg/kg dry	31.7	1	"	"	"	"	"
98-82-8	Isopropylbenzene	BRL		µg/kg dry	3.2	1	"	"	"	"	"
99-87-6	4-Isopropyltoluene	BRL		µg/kg dry	3.2	1	"	"	"	"	"
1634-04-4	Methyl tert-butyl ether	BRL		µg/kg dry	3.2	1	"	"	"	"	"
108-10-1	4-Methyl-2-pentanone (MIBK)	BRL		µg/kg dry	31.7	1	"	"	"	"	"
75-09-2	Methylene chloride	BRL		µg/kg dry	31.7	1	"	"	"	"	"

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* Reportable Detection Limit

BRL = Below Reporting Limit

Page 17 of 62

Sample Identification

B-4 (5-7)

SB07646-07

Client Project #

05-213212

Matrix

Soil

Collection Date/Time

02-Feb-10 11:00

Received

04-Feb-10

<u>CAS No.</u>	<u>Analyte(s)</u>	<u>Result</u>	<u>Flag</u>	<u>Units</u>	<u>*RDL</u>	<u>Dilution</u>	<u>Method Ref.</u>	<u>Prepared</u>	<u>Analyzed</u>	<u>Batch</u>	<u>Cert.</u>			
Volatile Organic Compounds														
Volatile Organic Compounds														
Prepared by method SW846 5035A Soil (low level)														
Initial weight: 9.24 g														
91-20-3	Naphthalene	BRL	CAL1	µg/kg dry	6.3	1	SW846 8260B	09-Feb-10	10-Feb-10	1003324				
103-65-1	n-Propylbenzene	BRL		µg/kg dry	3.2	1	"	"	"	"				
100-42-5	Styrene	BRL		µg/kg dry	3.2	1	"	"	"	"				
630-20-6	1,1,1,2-Tetrachloroethane	BRL		µg/kg dry	3.2	1	"	"	"	"				
79-34-5	1,1,2,2-Tetrachloroethane	BRL		µg/kg dry	3.2	1	"	"	"	"				
127-18-4	Tetrachloroethene	BRL		µg/kg dry	3.2	1	"	"	"	"				
108-88-3	Toluene	BRL		µg/kg dry	3.2	1	"	"	"	"				
87-61-6	1,2,3-Trichlorobenzene	BRL	CAL1	µg/kg dry	3.2	1	"	"	"	"				
120-82-1	1,2,4-Trichlorobenzene	BRL	CAL1	µg/kg dry	3.2	1	"	"	"	"				
108-70-3	1,3,5-Trichlorobenzene	BRL		µg/kg dry	3.2	1	"	"	"	"				
71-55-6	1,1,1-Trichloroethane	BRL		µg/kg dry	3.2	1	"	"	"	"				
79-00-5	1,1,2-Trichloroethane	BRL		µg/kg dry	3.2	1	"	"	"	"				
79-01-6	Trichloroethene	BRL		µg/kg dry	3.2	1	"	"	"	"				
75-69-4	Trichlorofluoromethane (Freon 11)	BRL		µg/kg dry	3.2	1	"	"	"	"				
96-18-4	1,2,3-Trichloropropane	BRL		µg/kg dry	3.2	1	"	"	"	"				
95-63-6	1,2,4-Trimethylbenzene	BRL		µg/kg dry	3.2	1	"	"	"	"				
108-67-8	1,3,5-Trimethylbenzene	BRL		µg/kg dry	3.2	1	"	"	"	"				
75-01-4	Vinyl chloride	BRL		µg/kg dry	3.2	1	"	"	"	"				
179601-23-1	m,p-Xylene	BRL		µg/kg dry	6.3	1	"	"	"	"				
95-47-6	o-Xylene	BRL		µg/kg dry	3.2	1	"	"	"	"				
109-99-9	Tetrahydrofuran	BRL		µg/kg dry	31.7	1	"	"	"	"				
60-29-7	Ethyl ether	BRL		µg/kg dry	3.2	1	"	"	"	"				
994-05-8	Tert-amyl methyl ether	BRL		µg/kg dry	3.2	1	"	"	"	"				
637-92-3	Ethyl tert-butyl ether	BRL		µg/kg dry	3.2	1	"	"	"	"				
108-20-3	Di-isopropyl ether	BRL		µg/kg dry	3.2	1	"	"	"	"				
75-65-0	Tert-Butanol / butyl alcohol	BRL		µg/kg dry	31.7	1	"	"	"	"				
123-91-1	1,4-Dioxane	BRL		µg/kg dry	63.4	1	"	"	"	"				
110-57-6	trans-1,4-Dichloro-2-butene	BRL		µg/kg dry	15.8	1	"	"	"	"				
64-17-5	Ethanol	BRL		µg/kg dry	1270	1	"	"	"	"				
<i>Surrogate recoveries:</i>														
460-00-4	4-Bromofluorobenzene	85		70-130 %			"	"	"	"				
2037-26-5	Toluene-d8	99		70-130 %			"	"	"	"				
17060-07-0	1,2-Dichloroethane-d4	123		70-130 %			"	"	"	"				
1868-53-7	Dibromofluoromethane	109		70-130 %			"	"	"	"				
VPH Aliphatic/Aromatic Carbon Ranges														
Prepared by method VPH - EPA 5030B														
Initial weight: 14.05 g														
C5-C8 Aliphatic Hydrocarbons														
	BRL			mg/kg dry	0.894	50	+MADEP VPH 5/2004 Rev. 1.1	10-Feb-10	10-Feb-10	1003387				
C9-C12 Aliphatic Hydrocarbons														
	BRL			mg/kg dry	0.298	50	"	"	"	"				
C9-C10 Aromatic Hydrocarbons														
	BRL			mg/kg dry	0.298	50	"	"	"	"				
Unadjusted C5-C8 Aliphatic Hydrocarbons														
	BRL			mg/kg dry	0.894	50	"	"	"	"				
Unadjusted C9-C12 Aliphatic Hydrocarbons														
	BRL			mg/kg dry	0.298	50	"	"	"	"				
VPH Target Analytes														
Prepared by method VPH - EPA 5030B														
Initial weight: 14.05 g														
71-43-2	Benzene	BRL		µg/kg dry	59.6	50	"	"	"	"				
100-41-4	Ethylbenzene	BRL		µg/kg dry	59.6	50	"	"	"	"				
1634-04-4	Methyl tert-butyl ether	BRL		µg/kg dry	59.6	50	"	"	"	"				
91-20-3	Naphthalene	BRL		µg/kg dry	59.6	50	"	"	"	"				

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* Reportable Detection Limit

BRL = Below Reporting Limit

Page 18 of 62

Sample IdentificationB-4 (5-7)
SB07646-07Client Project #
05-213212Matrix
SoilCollection Date/Time
02-Feb-10 11:00Received
04-Feb-10

CAS No.	Analyte(s)	Result	Flag	Units	*RDL	Dilution	Method Ref.	Prepared	Analyzed	Batch	Cert.		
Volatile Organic Compounds													
VPH Target Analytes													
Prepared by method VPH - EPA 5030B													
108-88-3	Toluene	BRL		µg/kg dry	59.6	50	+MADEP VPH 5/2004 Rev. 1.1	10-Feb-10	10-Feb-10	1003387			
179601-23-1	m,p-Xylene	BRL		µg/kg dry	119	50	"	"	"	"			
95-47-6	o-Xylene	BRL		µg/kg dry	59.6	50	"	"	"	"			
Surrogate recoveries:													
615-59-8	2,5-Dibromotoluene (FID)	81		70-130 %			"	"	"	"			
615-59-8	2,5-Dibromotoluene (PID)	82		70-130 %			"	"	"	"			
Extractable Petroleum Hydrocarbons													
EPH Aliphatic/Aromatic Ranges													
Prepared by method SW846 3545A													
	C9-C18 Aliphatic Hydrocarbons	BRL		mg/kg dry	10.3	1	+MADEP EPH 5/2004 R	09-Feb-10	12-Feb-10	1003308			
	C19-C36 Aliphatic Hydrocarbons	BRL		mg/kg dry	10.3	1	"	"	"	"			
	C11-C22 Aromatic Hydrocarbons	BRL		mg/kg dry	10.3	1	"	"	"	"			
	Unadjusted C11-C22 Aromatic Hydrocarbons	BRL		mg/kg dry	10.3	1	"	"	"	"			
	Total Petroleum Hydrocarbons	BRL		mg/kg dry	10.3	1	"	"	"	"			
	Unadjusted Total Petroleum Hydrocarbons	BRL		mg/kg dry	10.3	1	"	"	"	"			
EPH Target PAH Analytes													
Prepared by method SW846 3545A													
91-20-3	Naphthalene	BRL		µg/kg dry	343	1	"	"	"	"			
91-57-6	2-Methylnaphthalene	BRL		µg/kg dry	343	1	"	"	"	"			
208-96-8	Acenaphthylene	BRL		µg/kg dry	343	1	"	"	"	"			
83-32-9	Acenaphthene	BRL		µg/kg dry	343	1	"	"	"	"			
86-73-7	Fluorene	BRL		µg/kg dry	343	1	"	"	"	"			
85-01-8	Phenanthrene	BRL		µg/kg dry	343	1	"	"	"	"			
120-12-7	Anthracene	BRL		µg/kg dry	343	1	"	"	"	"			
206-44-0	Fluoranthene	BRL		µg/kg dry	343	1	"	"	"	"			
129-00-0	Pyrene	BRL		µg/kg dry	343	1	"	"	"	"			
56-55-3	Benzo (a) anthracene	BRL		µg/kg dry	343	1	"	"	"	"			
218-01-9	Chrysene	BRL		µg/kg dry	343	1	"	"	"	"			
205-99-2	Benzo (b) fluoranthene	BRL		µg/kg dry	343	1	"	"	"	"			
207-08-9	Benzo (k) fluoranthene	BRL		µg/kg dry	343	1	"	"	"	"			
50-32-8	Benzo (a) pyrene	BRL		µg/kg dry	343	1	"	"	"	"			
193-39-5	Indeno (1,2,3-cd) pyrene	BRL		µg/kg dry	343	1	"	"	"	"			
53-70-3	Dibenzo (a,h) anthracene	BRL		µg/kg dry	343	1	"	"	"	"			
191-24-2	Benzo (g,h,i) perylene	BRL		µg/kg dry	343	1	"	"	"	"			
Surrogate recoveries:													
3386-33-2	1-Chlorooctadecane	72		40-140 %			"	"	"	"			
84-15-1	Ortho-Terphenyl	62		40-140 %			"	"	"	"			
321-60-8	2-Fluorobiphenyl	62		40-140 %			"	"	"	"			
General Chemistry Parameters													
% Solids	94.3		%		1		SM2540 G Mod.	11-Feb-10	11-Feb-10	1003494			

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* Reportable Detection Limit

BRL = Below Reporting Limit

Page 19 of 62

Sample IdentificationHA-1 (0.5-1)
SB07646-08Client Project #
05-213212Matrix
SoilCollection Date/Time
02-Feb-10 14:30Received
04-Feb-10

CAS No.	Analyte(s)	Result	Flag	Units	*RDL	Dilution	Method Ref.	Prepared	Analyzed	Batch	Cert.
Semivolatile Organic Compounds by GC											
<u>Organochlorine Pesticides SW846 8081A</u>											
Prepared by method SW846 3545A											
319-84-6	alpha-BHC	BRL		µg/kg dry	5.21	1	SW846 8081A	11-Feb-10	12-Feb-10	1003462	
319-85-7	beta-BHC	BRL		µg/kg dry	5.21	1	"	"	"	"	
319-86-8	delta-BHC	BRL		µg/kg dry	5.21	1	"	"	"	"	
58-89-9	gamma-BHC (Lindane)	BRL		µg/kg dry	5.21	1	"	"	"	"	
76-44-8	Heptachlor	BRL		µg/kg dry	5.21	1	"	"	"	"	
309-00-2	Aldrin	BRL		µg/kg dry	5.21	1	"	"	"	"	
1024-57-3	Heptachlor epoxide	BRL		µg/kg dry	5.21	1	"	"	"	"	
959-98-8	Endosulfan I	BRL		µg/kg dry	5.21	1	"	"	"	"	
60-57-1	Dieldrin	BRL		µg/kg dry	5.21	1	"	"	"	"	
72-55-9	4,4'-DDE (p,p')	BRL		µg/kg dry	5.21	1	"	"	"	"	
72-20-8	Endrin	BRL		µg/kg dry	8.33	1	"	"	"	"	
33213-65-9	Endosulfan II	BRL		µg/kg dry	8.33	1	"	"	"	"	
72-54-8	4,4'-DDD (p,p')	BRL		µg/kg dry	8.33	1	"	"	"	"	
1031-07-8	Endosulfan sulfate	BRL		µg/kg dry	8.33	1	"	"	"	"	
50-29-3	4,4'-DDT (p,p')	BRL		µg/kg dry	8.33	1	"	"	"	"	
72-43-5	Methoxychlor	BRL		µg/kg dry	8.33	1	"	"	"	"	
53494-70-5	Endrin ketone	BRL		µg/kg dry	8.33	1	"	"	"	"	
7421-93-4	Endrin aldehyde	BRL		µg/kg dry	8.33	1	"	"	"	"	
5103-71-9	alpha-Chlordane	BRL		µg/kg dry	5.21	1	"	"	"	"	
5566-34-7	gamma-Chlordane	BRL		µg/kg dry	5.21	1	"	"	"	"	
8001-35-2	Toxaphene	BRL		µg/kg dry	104	1	"	"	"	"	
57-74-9	Chlordane	BRL		µg/kg dry	20.8	1	"	"	"	"	
2303-16-4	Diallate	BRL		µg/kg dry	10.4	1	"	"	"	"	
15972-60-8	Alachlor	BRL		µg/kg dry	5.21	1	"	"	"	"	
465-73-6	Isodrin	BRL		µg/kg dry	10.4	1	"	"	"	"	
510-15-6	Chlorobenzilate	BRL		µg/kg dry	10.4	1	"	"	"	"	
<i>Surrogate recoveries:</i>											
10386-84-2	4,4-DB-Octafluorobiphenyl (Sr)	47		30-150 %			"	"	"	"	
10386-84-2	4,4-DB-Octafluorobiphenyl (Sr) [2C]	54		30-150 %			"	"	"	"	
2051-24-3	Decachlorobiphenyl (Sr)	78		30-150 %			"	"	"	"	
2051-24-3	Decachlorobiphenyl (Sr) [2C]	104		30-150 %			"	"	"	"	
Total Metals by EPA 6000/7000 Series Methods											
7440-38-2	Arsenic	13.4		mg/kg dry	1.61	1	SW846 6010B	16-Feb-10	17-Feb-10	1003678	
7439-92-1	Lead	13.4		mg/kg dry	1.61	1	"	"	"	"	
General Chemistry Parameters											
% Solids		87.7		%		1	SM2540 G Mod.	11-Feb-10	11-Feb-10	1003494	

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Sample Identification

HA-2 (0.5-1)

SB07646-09

Client Project #

05-213212

Matrix

Soil

Collection Date/Time

02-Feb-10 14:45

Received

04-Feb-10

<u>CAS No.</u>	<u>Analyte(s)</u>	<u>Result</u>	<u>Flag</u>	<u>Units</u>	<u>*RDL</u>	<u>Dilution</u>	<u>Method Ref.</u>	<u>Prepared</u>	<u>Analyzed</u>	<u>Batch</u>	<u>Cert.</u>		
Semivolatile Organic Compounds by GC													
<u>Organochlorine Pesticides SW846 8081A</u>													
Prepared by method SW846 3545A													
319-84-6	alpha-BHC	BRL		µg/kg dry	5.73	1	SW846 8081A	11-Feb-10	12-Feb-10	1003462			
319-85-7	beta-BHC	BRL		µg/kg dry	5.73	1	"	"	"	"			
319-86-8	delta-BHC	BRL		µg/kg dry	5.73	1	"	"	"	"			
58-89-9	gamma-BHC (Lindane)	BRL		µg/kg dry	5.73	1	"	"	"	"			
76-44-8	Heptachlor	BRL		µg/kg dry	5.73	1	"	"	"	"			
309-00-2	Aldrin	BRL		µg/kg dry	5.73	1	"	"	"	"			
1024-57-3	Heptachlor epoxide	BRL		µg/kg dry	5.73	1	"	"	"	"			
959-98-8	Endosulfan I	31.3		µg/kg dry	5.73	1	"	"	"	"			
60-57-1	Dieldrin	BRL		µg/kg dry	5.73	1	"	"	"	"			
72-55-9	4,4'-DDE (p,p')	BRL		µg/kg dry	5.73	1	"	"	"	"			
72-20-8	Endrin	BRL		µg/kg dry	9.17	1	"	"	"	"			
33213-65-9	Endosulfan II	115		µg/kg dry	9.17	1	"	"	"	"			
72-54-8	4,4'-DDD (p,p')	BRL		µg/kg dry	9.17	1	"	"	"	"			
1031-07-8	Endosulfan sulfate	615	E	µg/kg dry	9.17	1	"	"	"	"			
50-29-3	4,4'-DDT (p,p')	9.49		µg/kg dry	9.17	1	"	"	"	"			
72-43-5	Methoxychlor	BRL		µg/kg dry	9.17	1	"	"	"	"			
53494-70-5	Endrin ketone	BRL		µg/kg dry	9.17	1	"	"	"	"			
7421-93-4	Endrin aldehyde	BRL		µg/kg dry	9.17	1	"	"	"	"			
5103-71-9	alpha-Chlordane	BRL		µg/kg dry	5.73	1	"	"	"	"			
5566-34-7	gamma-Chlordane	BRL		µg/kg dry	5.73	1	"	"	"	"			
8001-35-2	Toxaphene	BRL		µg/kg dry	115	1	"	"	"	"			
57-74-9	Chlordane	BRL		µg/kg dry	22.9	1	"	"	"	"			
2303-16-4	Diallate	BRL		µg/kg dry	11.5	1	"	"	"	"			
15972-60-8	Alachlor	BRL		µg/kg dry	5.73	1	"	"	"	"			
465-73-6	Isodrin	BRL		µg/kg dry	11.5	1	"	"	"	"			
510-15-6	Chlorobenzilate	BRL		µg/kg dry	11.5	1	"	"	"	"			
<i>Surrogate recoveries:</i>													
10386-84-2	4,4-DB-Octafluorobiphenyl (Sr)	53		30-150 %			"	"	"	"			
10386-84-2	4,4-DB-Octafluorobiphenyl (Sr) [2C]	47		30-150 %			"	"	"	"			
2051-24-3	Decachlorobiphenyl (Sr)	71		30-150 %			"	"	"	"			
2051-24-3	Decachlorobiphenyl (Sr) [2C]	105		30-150 %			"	"	"	"			
<u>Re-analysis of Organochlorine Pesticides SW846 8081A</u>													
Prepared by method SW846 3545A													
319-84-6	alpha-BHC	BRL		µg/kg dry	28.7	5	SW846 8081A	11-Feb-10	16-Feb-10	1003462			
319-85-7	beta-BHC	BRL		µg/kg dry	28.7	5	"	"	"	"			
319-86-8	delta-BHC	BRL		µg/kg dry	28.7	5	"	"	"	"			
58-89-9	gamma-BHC (Lindane)	BRL		µg/kg dry	28.7	5	"	"	"	"			
76-44-8	Heptachlor	BRL		µg/kg dry	28.7	5	"	"	"	"			
309-00-2	Aldrin	BRL		µg/kg dry	28.7	5	"	"	"	"			
1024-57-3	Heptachlor epoxide	BRL		µg/kg dry	28.7	5	"	"	"	"			
959-98-8	Endosulfan I	32.3		µg/kg dry	28.7	5	"	"	"	"			
60-57-1	Dieldrin	BRL		µg/kg dry	28.7	5	"	"	"	"			
72-55-9	4,4'-DDE (p,p')	BRL		µg/kg dry	28.7	5	"	"	"	"			
72-20-8	Endrin	BRL		µg/kg dry	45.9	5	"	"	"	"			
33213-65-9	Endosulfan II	112		µg/kg dry	45.9	5	"	"	"	"			
72-54-8	4,4'-DDD (p,p')	BRL		µg/kg dry	45.9	5	"	"	"	"			
1031-07-8	Endosulfan sulfate	566		µg/kg dry	45.9	5	"	"	"	"			
50-29-3	4,4'-DDT (p,p')	BRL		µg/kg dry	45.9	5	"	"	"	"			
72-43-5	Methoxychlor	BRL		µg/kg dry	45.9	5	"	"	"	"			

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* Reportable Detection Limit

BRL = Below Reporting Limit

Page 21 of 62

Sample Identification

HA-2 (0.5-1)

SB07646-09

Client Project #

05-213212

Matrix

Soil

Collection Date/Time

02-Feb-10 14:45

Received

04-Feb-10

<u>CAS No.</u>	<u>Analyte(s)</u>	<u>Result</u>	<u>Flag</u>	<u>Units</u>	<u>*RDL</u>	<u>Dilution</u>	<u>Method Ref.</u>	<u>Prepared</u>	<u>Analyzed</u>	<u>Batch</u>	<u>Cert.</u>
Semivolatile Organic Compounds by GC											
<u>Organochlorine Pesticides SW846 8081A</u>											
Prepared by method SW846 3545A											
Re-analysis of Organochlorine Pesticides SW846 8081A											
Prepared by method SW846 3545A											
53494-70-5	Endrin ketone	BRL		µg/kg dry	45.9	5	SW846 8081A	11-Feb-10	16-Feb-10	1003462	
7421-93-4	Endrin aldehyde	BRL		µg/kg dry	45.9	5	"	"	"	"	
5103-71-9	alpha-Chlordane	BRL		µg/kg dry	28.7	5	"	"	"	"	
5566-34-7	gamma-Chlordane	BRL		µg/kg dry	28.7	5	"	"	"	"	
8001-35-2	Toxaphene	BRL		µg/kg dry	573	5	"	"	"	"	
57-74-9	Chlordane	BRL		µg/kg dry	115	5	"	"	"	"	
2303-16-4	Diallate	BRL		µg/kg dry	57.3	5	"	"	"	"	
15972-60-8	Alachlor	BRL		µg/kg dry	28.7	5	"	"	"	"	
465-73-6	Isodrin	BRL		µg/kg dry	57.3	5	"	"	"	"	
510-15-6	Chlorobenzilate	BRL		µg/kg dry	57.3	5	"	"	"	"	
<i>Surrogate recoveries:</i>											
10386-84-2	4,4-DB-Octafluorobiphenyl (Sr)	51		30-150 %			"	"	"	"	
10386-84-2	4,4-DB-Octafluorobiphenyl (Sr) [2C]	47		30-150 %			"	"	"	"	
2051-24-3	Decachlorobiphenyl (Sr)	72		30-150 %			"	"	"	"	
2051-24-3	Decachlorobiphenyl (Sr) [2C]	117		30-150 %			"	"	"	"	
Total Metals by EPA 6000/7000 Series Methods											
7440-38-2	Arsenic	40.1		mg/kg dry	1.66	1	SW846 6010B	16-Feb-10	17-Feb-10	1003678	
7439-92-1	Lead	69.5		mg/kg dry	1.66	1	"	"	"	"	
General Chemistry Parameters											
% Solids		81.4		%		1	SM2540 G Mod.	11-Feb-10	11-Feb-10	1003494	

Sample IdentificationHA-3 (0.5-1)
SB07646-10Client Project #

05-213212

Matrix

Soil

Collection Date/Time

02-Feb-10 15:05

Received

04-Feb-10

<u>CAS No.</u>	<u>Analyte(s)</u>	<u>Result</u>	<u>Flag</u>	<u>Units</u>	<u>*RDL</u>	<u>Dilution</u>	<u>Method Ref.</u>	<u>Prepared</u>	<u>Analyzed</u>	<u>Batch</u>	<u>Cert.</u>
Semivolatile Organic Compounds by GC											
<u>Organochlorine Pesticides SW846 8081A</u>											
Prepared by method SW846 3545A											
319-84-6	alpha-BHC	BRL		µg/kg dry	5.96	1	SW846 8081A	11-Feb-10	12-Feb-10	1003462	
319-85-7	beta-BHC	BRL		µg/kg dry	5.96	1	"	"	"	"	"
319-86-8	delta-BHC	BRL		µg/kg dry	5.96	1	"	"	"	"	"
58-89-9	gamma-BHC (Lindane)	BRL		µg/kg dry	5.96	1	"	"	"	"	"
76-44-8	Heptachlor	BRL		µg/kg dry	5.96	1	"	"	"	"	"
309-00-2	Aldrin	BRL		µg/kg dry	5.96	1	"	"	"	"	"
1024-57-3	Heptachlor epoxide	BRL		µg/kg dry	5.96	1	"	"	"	"	"
959-98-8	Endosulfan I	BRL		µg/kg dry	5.96	1	"	"	"	"	"
60-57-1	Dieldrin	BRL		µg/kg dry	5.96	1	"	"	"	"	"
72-55-9	4,4'-DDE (p,p')	9.85		µg/kg dry	5.96	1	"	"	"	"	"
72-20-8	Endrin	BRL		µg/kg dry	9.54	1	"	"	"	"	"
33213-65-9	Endosulfan II	12.8		µg/kg dry	9.54	1	"	"	"	"	"
72-54-8	4,4'-DDD (p,p')	BRL		µg/kg dry	9.54	1	"	"	"	"	"
1031-07-8	Endosulfan sulfate	13.9		µg/kg dry	9.54	1	"	"	"	"	"
50-29-3	4,4'-DDT (p,p')	36.2		µg/kg dry	9.54	1	"	"	"	"	"
72-43-5	Methoxychlor	BRL		µg/kg dry	9.54	1	"	"	"	"	"
53494-70-5	Endrin ketone	BRL		µg/kg dry	9.54	1	"	"	"	"	"
7421-93-4	Endrin aldehyde	BRL		µg/kg dry	9.54	1	"	"	"	"	"
5103-71-9	alpha-Chlordane	BRL		µg/kg dry	5.96	1	"	"	"	"	"
5566-34-7	gamma-Chlordane	BRL		µg/kg dry	5.96	1	"	"	"	"	"
8001-35-2	Toxaphene	BRL		µg/kg dry	119	1	"	"	"	"	"
57-74-9	Chlordane	BRL		µg/kg dry	23.8	1	"	"	"	"	"
2303-16-4	Diallate	BRL		µg/kg dry	11.9	1	"	"	"	"	"
15972-60-8	Alachlor	BRL		µg/kg dry	5.96	1	"	"	"	"	"
465-73-6	Isodrin	BRL		µg/kg dry	11.9	1	"	"	"	"	"
510-15-6	Chlorobenzilate	BRL		µg/kg dry	11.9	1	"	"	"	"	"
<i>Surrogate recoveries:</i>											
10386-84-2	4,4-DB-Octafluorobiphenyl (Sr)	47		30-150 %			"	"	"	"	"
10386-84-2	4,4-DB-Octafluorobiphenyl (Sr) [2C]	43		30-150 %			"	"	"	"	"
2051-24-3	Decachlorobiphenyl (Sr)	66		30-150 %			"	"	"	"	"
2051-24-3	Decachlorobiphenyl (Sr) [2C]	94		30-150 %			"	"	"	"	"
Total Metals by EPA 6000/7000 Series Methods											
7440-38-2	Arsenic	23.2		mg/kg dry	1.55	1	SW846 6010B	16-Feb-10	17-Feb-10	1003678	
7439-92-1	Lead	196		mg/kg dry	1.55	1	"	"	"	"	"
General Chemistry Parameters											
% Solids		81.3		%		1	SM2540 G Mod.	11-Feb-10	11-Feb-10	1003494	

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* Reportable Detection Limit

BRL = Below Reporting Limit

Page 23 of 62

Sample Identification

HA-4 (0.5-1)

SB07646-11

Client Project #

05-213212

Matrix

Soil

Collection Date/Time

02-Feb-10 15:30

Received

04-Feb-10

<u>CAS No.</u>	<u>Analyte(s)</u>	<u>Result</u>	<u>Flag</u>	<u>Units</u>	<u>*RDL</u>	<u>Dilution</u>	<u>Method Ref.</u>	<u>Prepared</u>	<u>Analyzed</u>	<u>Batch</u>	<u>Cert.</u>
Semivolatile Organic Compounds by GC											
<u>Organochlorine Pesticides SW846 8081A</u>											
Prepared by method SW846 3545A											
319-84-6	alpha-BHC	BRL		µg/kg dry	6.55	1	SW846 8081A	11-Feb-10	12-Feb-10	1003462	
319-85-7	beta-BHC	BRL		µg/kg dry	6.55	1	"	"	"	"	
319-86-8	delta-BHC	BRL		µg/kg dry	6.55	1	"	"	"	"	
58-89-9	gamma-BHC (Lindane)	BRL		µg/kg dry	6.55	1	"	"	"	"	
76-44-8	Heptachlor	BRL		µg/kg dry	6.55	1	"	"	"	"	
309-00-2	Aldrin	BRL		µg/kg dry	6.55	1	"	"	"	"	
1024-57-3	Heptachlor epoxide	BRL		µg/kg dry	6.55	1	"	"	"	"	
959-98-8	Endosulfan I	BRL		µg/kg dry	6.55	1	"	"	"	"	
60-57-1	Dieldrin	BRL		µg/kg dry	6.55	1	"	"	"	"	
72-55-9	4,4'-DDE (p,p')	10.9		µg/kg dry	6.55	1	"	"	"	"	
72-20-8	Endrin	BRL		µg/kg dry	10.5	1	"	"	"	"	
33213-65-9	Endosulfan II	BRL		µg/kg dry	10.5	1	"	"	"	"	
72-54-8	4,4'-DDD (p,p')	BRL		µg/kg dry	10.5	1	"	"	"	"	
1031-07-8	Endosulfan sulfate	BRL		µg/kg dry	10.5	1	"	"	"	"	
50-29-3	4,4'-DDT (p,p')	14.4		µg/kg dry	10.5	1	"	"	"	"	
72-43-5	Methoxychlor	BRL		µg/kg dry	10.5	1	"	"	"	"	
53494-70-5	Endrin ketone	BRL		µg/kg dry	10.5	1	"	"	"	"	
7421-93-4	Endrin aldehyde	BRL		µg/kg dry	10.5	1	"	"	"	"	
5103-71-9	alpha-Chlordane	BRL		µg/kg dry	6.55	1	"	"	"	"	
5566-34-7	gamma-Chlordane	BRL		µg/kg dry	6.55	1	"	"	"	"	
8001-35-2	Toxaphene	BRL		µg/kg dry	131	1	"	"	"	"	
57-74-9	Chlordane	BRL		µg/kg dry	26.2	1	"	"	"	"	
2303-16-4	Diallate	BRL		µg/kg dry	13.1	1	"	"	"	"	
15972-60-8	Alachlor	BRL		µg/kg dry	6.55	1	"	"	"	"	
465-73-6	Isodrin	BRL		µg/kg dry	13.1	1	"	"	"	"	
510-15-6	Chlorobenzilate	BRL		µg/kg dry	13.1	1	"	"	"	"	
<i>Surrogate recoveries:</i>											
10386-84-2	4,4-DB-Octafluorobiphenyl (Sr)	32		30-150 %			"	"	"	"	
10386-84-2	4,4-DB-Octafluorobiphenyl (Sr) [2C]	38		30-150 %			"	"	"	"	
2051-24-3	Decachlorobiphenyl (Sr)	53		30-150 %			"	"	"	"	
2051-24-3	Decachlorobiphenyl (Sr) [2C]	80		30-150 %			"	"	"	"	
Total Metals by EPA 6000/7000 Series Methods											
7440-38-2	Arsenic	14.8		mg/kg dry	1.91	1	SW846 6010B	16-Feb-10	17-Feb-10	1003678	
7439-92-1	Lead	109		mg/kg dry	1.91	1	"	"	"	"	
General Chemistry Parameters											
% Solids		73.5		%		1	SM2540 G Mod.	11-Feb-10	11-Feb-10	1003494	

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* Reportable Detection Limit

BRL = Below Reporting Limit

Page 24 of 62

Volatile Organic Compounds - Quality Control

Analyte(s)	Result	Flag	Units	*RDL	Spike Level	Source Result	%REC	%REC Limits	RPD RPD	RPD Limit
Batch 1003324 - SW846 5035A Soil (low level)										
Blank (1003324-BLK1)										
Prepared & Analyzed: 09-Feb-10										
1,1,2-Trichlorotrifluoroethane (Freon 113)	BRL		µg/kg wet we	5.0						
Acetone	BRL		µg/kg wet we	50.0						
Acrylonitrile	BRL		µg/kg wet we	5.0						
Benzene	BRL		µg/kg wet we	5.0						
Bromobenzene	BRL		µg/kg wet we	5.0						
Bromochloromethane	BRL		µg/kg wet we	5.0						
Bromodichloromethane	BRL		µg/kg wet we	5.0						
Bromoform	BRL		µg/kg wet we	5.0						
Bromomethane	BRL		µg/kg wet we	10.0						
2-Butanone (MEK)	BRL		µg/kg wet we	50.0						
n-Butylbenzene	BRL		µg/kg wet we	5.0						
sec-Butylbenzene	BRL		µg/kg wet we	5.0						
tert-Butylbenzene	BRL		µg/kg wet we	5.0						
Carbon disulfide	BRL		µg/kg wet we	25.0						
Carbon tetrachloride	BRL		µg/kg wet we	5.0						
Chlorobenzene	BRL		µg/kg wet we	5.0						
Chloroethane	BRL		µg/kg wet we	10.0						
Chloroform	BRL		µg/kg wet we	5.0						
Chloromethane	BRL		µg/kg wet we	10.0						
2-Chlorotoluene	BRL		µg/kg wet we	5.0						
4-Chlorotoluene	BRL		µg/kg wet we	5.0						
1,2-Dibromo-3-chloropropane	BRL		µg/kg wet we	10.0						
Dibromochloromethane	BRL		µg/kg wet we	5.0						
1,2-Dibromoethane (EDB)	BRL		µg/kg wet we	5.0						
Dibromomethane	BRL		µg/kg wet we	5.0						
1,2-Dichlorobenzene	BRL		µg/kg wet we	5.0						
1,3-Dichlorobenzene	BRL		µg/kg wet we	5.0						
1,4-Dichlorobenzene	BRL		µg/kg wet we	5.0						
Dichlorodifluoromethane (Freon12)	BRL		µg/kg wet we	10.0						
1,1-Dichloroethane	BRL		µg/kg wet we	5.0						
1,2-Dichloroethane	BRL		µg/kg wet we	5.0						
1,1-Dichloroethene	BRL		µg/kg wet we	5.0						
cis-1,2-Dichloroethene	BRL		µg/kg wet we	5.0						
trans-1,2-Dichloroethene	BRL		µg/kg wet we	5.0						
1,2-Dichloropropane	BRL		µg/kg wet we	5.0						
1,3-Dichloropropane	BRL		µg/kg wet we	5.0						
2,2-Dichloropropane	BRL		µg/kg wet we	5.0						
1,1-Dichloropropene	BRL		µg/kg wet we	5.0						
cis-1,3-Dichloropropene	BRL		µg/kg wet we	5.0						
trans-1,3-Dichloropropene	BRL		µg/kg wet we	5.0						
Ethylbenzene	BRL		µg/kg wet we	5.0						
Hexachlorobutadiene	BRL		µg/kg wet we	5.0						
2-Hexanone (MBK)	BRL		µg/kg wet we	50.0						
Isopropylbenzene	BRL		µg/kg wet we	5.0						
4-Isopropyltoluene	BRL		µg/kg wet we	5.0						
Methyl tert-butyl ether	BRL		µg/kg wet we	5.0						
4-Methyl-2-pentanone (MIBK)	BRL		µg/kg wet we	50.0						
Methylene chloride	BRL		µg/kg wet we	50.0						
Naphthalene	BRL	CAL1	µg/kg wet we	10.0						

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* Reportable Detection Limit BRL = Below Reporting Limit

Page 25 of 62

Volatile Organic Compounds - Quality Control

Analyte(s)	Result	Flag	Units	*RDL	Spike Level	Source Result	%REC	%REC Limits	RPD RPD	RPD Limit
Batch 1003324 - SW846 5035A Soil (low level)										
<u>Blank (1003324-BLK1)</u>										
Prepared & Analyzed: 09-Feb-10										
n-Propylbenzene	BRL		µg/kg wet we	5.0						
Styrene	BRL		µg/kg wet we	5.0						
1,1,1,2-Tetrachloroethane	BRL		µg/kg wet we	5.0						
1,1,2,2-Tetrachloroethane	BRL		µg/kg wet we	5.0						
Tetrachloroethene	BRL		µg/kg wet we	5.0						
Toluene	BRL		µg/kg wet we	5.0						
1,2,3-Trichlorobenzene	BRL	CAL1	µg/kg wet we	5.0						
1,2,4-Trichlorobenzene	BRL	CAL1	µg/kg wet we	5.0						
1,3,5-Trichlorobenzene	BRL		µg/kg wet we	5.0						
1,1,1-Trichloroethane	BRL		µg/kg wet we	5.0						
1,1,2-Trichloroethane	BRL		µg/kg wet we	5.0						
Trichloroethene	BRL		µg/kg wet we	5.0						
Trichlorofluoromethane (Freon 11)	BRL		µg/kg wet we	5.0						
1,2,3-Trichloropropane	BRL		µg/kg wet we	5.0						
1,2,4-Trimethylbenzene	BRL		µg/kg wet we	5.0						
1,3,5-Trimethylbenzene	BRL		µg/kg wet we	5.0						
Vinyl chloride	BRL		µg/kg wet we	5.0						
m,p-Xylene	BRL		µg/kg wet we	10.0						
o-Xylene	BRL		µg/kg wet we	5.0						
Tetrahydrofuran	BRL		µg/kg wet we	50.0						
Ethyl ether	BRL		µg/kg wet we	5.0						
Tert-amyl methyl ether	BRL		µg/kg wet we	5.0						
Ethyl tert-butyl ether	BRL		µg/kg wet we	5.0						
Di-isopropyl ether	BRL		µg/kg wet we	5.0						
Tert-Butanol / butyl alcohol	BRL		µg/kg wet we	50.0						
1,4-Dioxane	BRL		µg/kg wet we	100						
trans-1,4-Dichloro-2-butene	BRL		µg/kg wet we	25.0						
Ethanol	BRL		µg/kg wet we	2000						
Surrogate: 4-Bromofluorobenzene	43.3		µg/kg wet	50.0		87	70-130			
Surrogate: Toluene-d8	49.3		µg/kg wet	50.0		99	70-130			
Surrogate: 1,2-Dichloroethane-d4	62.1		µg/kg wet	50.0		124	70-130			
Surrogate: Dibromofluoromethane	53.3		µg/kg wet	50.0		107	70-130			
<u>LCS (1003324-BS1)</u>										
Prepared & Analyzed: 09-Feb-10										
1,1,2-Trichlorotrifluoroethane (Freon 113)	20.0		µg/kg wet		20.0		100	70-130		
Acetone	8.2		µg/kg wet		20.0		41	40-144		
Acrylonitrile	18.5		µg/kg wet		20.0		93	70-130		
Benzene	16.3		µg/kg wet		20.0		82	70-130		
Bromobenzene	18.6		µg/kg wet		20.0		93	70-130		
Bromochloromethane	18.4		µg/kg wet		20.0		92	70-130		
Bromodichloromethane	17.9		µg/kg wet		20.0		90	70-130		
Bromoform	18.6		µg/kg wet		20.0		93	70-130		
Bromomethane	16.0		µg/kg wet		20.0		80	54.4-131		
2-Butanone (MEK)	13.8		µg/kg wet		20.0		69	62.1-141		
n-Butylbenzene	16.3		µg/kg wet		20.0		82	70-130		
sec-Butylbenzene	17.0		µg/kg wet		20.0		85	70-130		
tert-Butylbenzene	17.1		µg/kg wet		20.0		85	70-130		
Carbon disulfide	17.7		µg/kg wet		20.0		89	70-130		
Carbon tetrachloride	17.8		µg/kg wet		20.0		89	70-130		

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* Reportable Detection Limit BRL = Below Reporting Limit

Page 26 of 62

Volatile Organic Compounds - Quality Control

Analyte(s)	Result	Flag	Units	*RDL	Spike Level	Source Result	%REC	%REC Limits	RPD RPD	RPD Limit
Batch 1003324 - SW846 5035A Soil (low level)										
LCS (1003324-BS1)										
Prepared & Analyzed: 09-Feb-10										
Chlorobenzene	18.5		µg/kg wet		20.0	93	70-130			
Chloroethane	15.6		µg/kg wet		20.0	78	56.7-131			
Chloroform	16.7		µg/kg wet		20.0	83	70-130			
Chloromethane	16.4		µg/kg wet		20.0	82	70-130			
2-Chlorotoluene	19.3		µg/kg wet		20.0	96	70-130			
4-Chlorotoluene	17.0		µg/kg wet		20.0	85	70-130			
1,2-Dibromo-3-chloropropane	19.8		µg/kg wet		20.0	99	70-130			
Dibromochloromethane	16.2		µg/kg wet		20.0	81	49-138			
1,2-Dibromoethane (EDB)	18.7		µg/kg wet		20.0	94	70-130			
Dibromomethane	17.5		µg/kg wet		20.0	88	70-130			
1,2-Dichlorobenzene	18.7		µg/kg wet		20.0	93	70-130			
1,3-Dichlorobenzene	18.6		µg/kg wet		20.0	93	70-130			
1,4-Dichlorobenzene	18.0		µg/kg wet		20.0	90	70-130			
Dichlorodifluoromethane (Freon12)	18.7		µg/kg wet		20.0	94	50.8-145			
1,1-Dichloroethane	16.3		µg/kg wet		20.0	81	70-130			
1,2-Dichloroethane	17.1		µg/kg wet		20.0	86	70-130			
1,1-Dichloroethene	16.9		µg/kg wet		20.0	84	70-130			
cis-1,2-Dichloroethene	17.6		µg/kg wet		20.0	88	70-130			
trans-1,2-Dichloroethene	16.5		µg/kg wet		20.0	82	70-130			
1,2-Dichloropropane	18.0		µg/kg wet		20.0	90	70-130			
1,3-Dichloropropane	17.7		µg/kg wet		20.0	89	70-130			
2,2-Dichloropropane	3.0	QM9	µg/kg wet		20.0	15	70-130			
1,1-Dichloropropene	17.2		µg/kg wet		20.0	86	70-130			
cis-1,3-Dichloropropene	12.3	QM9	µg/kg wet		20.0	62	70-130			
trans-1,3-Dichloropropene	10.7	QM9	µg/kg wet		20.0	53	70-130			
Ethylbenzene	17.5		µg/kg wet		20.0	88	70-130			
Hexachlorobutadiene	15.4		µg/kg wet		20.0	77	70-135			
2-Hexanone (MBK)	16.9		µg/kg wet		20.0	85	70-130			
Isopropylbenzene	14.4		µg/kg wet		20.0	72	70-130			
4-Isopropyltoluene	18.4		µg/kg wet		20.0	92	70-130			
Methyl tert-butyl ether	17.7		µg/kg wet		20.0	89	70-130			
4-Methyl-2-pentanone (MIBK)	15.3		µg/kg wet		20.0	76	64.2-130			
Methylene chloride	16.5		µg/kg wet		20.0	82	70-130			
Naphthalene	15.8	CAL1	µg/kg wet		20.0	79	70-130			
n-Propylbenzene	15.4		µg/kg wet		20.0	77	70-130			
Styrene	0.6	QM9	µg/kg wet		20.0	3	70-130			
1,1,1,2-Tetrachloroethane	19.0		µg/kg wet		20.0	95	70-130			
1,1,2,2-Tetrachloroethane	19.0		µg/kg wet		20.0	95	70-130			
Tetrachloroethene	16.7		µg/kg wet		20.0	84	70-130			
Toluene	16.5		µg/kg wet		20.0	82	70-130			
1,2,3-Trichlorobenzene	17.0	CAL1	µg/kg wet		20.0	85	70-130			
1,2,4-Trichlorobenzene	16.7	CAL1	µg/kg wet		20.0	84	70-130			
1,3,5-Trichlorobenzene	16.7		µg/kg wet		20.0	84	70-130			
1,1,1-Trichloroethane	17.4		µg/kg wet		20.0	87	70-130			
1,1,2-Trichloroethane	18.4		µg/kg wet		20.0	92	70-130			
Trichloroethene	17.5		µg/kg wet		20.0	87	70-130			
Trichlorofluoromethane (Freon 11)	20.0		µg/kg wet		20.0	100	55.3-174			
1,2,3-Trichloropropane	22.1		µg/kg wet		20.0	110	70-130			
1,2,4-Trimethylbenzene	16.4		µg/kg wet		20.0	82	70-130			

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Volatile Organic Compounds - Quality Control

Analyte(s)	Result	Flag	Units	*RDL	Spike Level	Source Result	%REC	%REC Limits	RPD RPD	RPD Limit
Batch 1003324 - SW846 5035A Soil (low level)										
LCS (1003324-BS1)										
Prepared & Analyzed: 09-Feb-10										
1,3,5-Trimethylbenzene	16.2		µg/kg wet		20.0	81	70-130			
Vinyl chloride	17.4		µg/kg wet		20.0	87	70-130			
m,p-Xylene	35.0		µg/kg wet		40.0	87	70-130			
o-Xylene	16.7		µg/kg wet		20.0	83	70-130			
Tetrahydrofuran	15.2		µg/kg wet		20.0	76	70-130			
Ethyl ether	17.3		µg/kg wet		20.0	86	70-130			
Tert-amyl methyl ether	17.1		µg/kg wet		20.0	86	70-130			
Ethyl tert-butyl ether	16.2		µg/kg wet		20.0	81	70-130			
Di-isopropyl ether	16.2		µg/kg wet		20.0	81	70-130			
Tert-Butanol / butyl alcohol	178		µg/kg wet		200	89	70-130			
1,4-Dioxane	117		µg/kg wet		200	59	44.2-151			
trans-1,4-Dichloro-2-butene	11.0	QM9	µg/kg wet		20.0	55	70-130			
Ethanol	355		µg/kg wet		400	89	70-130			
<i>Surrogate: 4-Bromofluorobenzene</i>	49.7		µg/kg wet		50.0	99	70-130			
<i>Surrogate: Toluene-d8</i>	46.9		µg/kg wet		50.0	94	70-130			
<i>Surrogate: 1,2-Dichloroethane-d4</i>	51.0		µg/kg wet		50.0	102	70-130			
<i>Surrogate: Dibromofluoromethane</i>	49.2		µg/kg wet		50.0	98	70-130			
LCS Dup (1003324-BSD1)										
Prepared: 09-Feb-10 Analyzed: 10-Feb-10										
1,1,2-Trichlorotrifluoroethane (Freon 113)	26.9	QM9, QR5	µg/kg wet		20.0	134	70-130	29	25	
Acetone	25.0	QR2	µg/kg wet		20.0	125	40-144	101	50	
Acrylonitrile	20.7		µg/kg wet		20.0	103	70-130	11	25	
Benzene	17.8		µg/kg wet		20.0	89	70-130	9	25	
Bromobenzene	19.3		µg/kg wet		20.0	96	70-130	4	25	
Bromoform	18.9		µg/kg wet		20.0	95	70-130	3	25	
Bromochloromethane	18.6		µg/kg wet		20.0	93	70-130	3	25	
Bromodichloromethane	18.6		µg/kg wet		20.0	94	70-130	1	25	
Bromoform	18.8		µg/kg wet		20.0	89	54.4-131	10	50	
Bromomethane	17.7		µg/kg wet		20.0	98	70-130			
2-Butanone (MEK)	21.1		µg/kg wet		20.0	106	62.1-141	42	50	
n-Butylbenzene	19.7		µg/kg wet		20.0	98	70-130	19	25	
sec-Butylbenzene	20.1		µg/kg wet		20.0	101	70-130	17	25	
tert-Butylbenzene	19.1		µg/kg wet		20.0	95	70-130	11	25	
Carbon disulfide	18.2		µg/kg wet		20.0	91	70-130	3	25	
Carbon tetrachloride	20.5		µg/kg wet		20.0	103	70-130	15	25	
Chlorobenzene	19.5		µg/kg wet		20.0	98	70-130	5	25	
Chloroethane	18.0		µg/kg wet		20.0	90	56.7-131	14	50	
Chloroform	17.3		µg/kg wet		20.0	87	70-130	4	25	
Chloromethane	19.2		µg/kg wet		20.0	96	70-130	15	25	
2-Chlorotoluene	21.1		µg/kg wet		20.0	106	70-130	9	25	
4-Chlorotoluene	18.2		µg/kg wet		20.0	91	70-130	7	25	
1,2-Dibromo-3-chloropropane	20.3		µg/kg wet		20.0	102	70-130	3	25	
Dibromochloromethane	17.3		µg/kg wet		20.0	86	49-138	7	50	
1,2-Dibromoethane (EDB)	20.1		µg/kg wet		20.0	100	70-130	7	25	
Dibromomethane	18.9		µg/kg wet		20.0	95	70-130	8	25	
1,2-Dichlorobenzene	19.6		µg/kg wet		20.0	98	70-130	5	25	
1,3-Dichlorobenzene	20.2		µg/kg wet		20.0	101	70-130	8	25	
1,4-Dichlorobenzene	18.9		µg/kg wet		20.0	94	70-130	5	25	
Dichlorodifluoromethane (Freon12)	26.4		µg/kg wet		20.0	132	50.8-145	34	50	
1,1-Dichloroethane	18.6		µg/kg wet		20.0	93	70-130	13	25	

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Volatile Organic Compounds - Quality Control

Analyte(s)	Result	Flag	Units	*RDL	Spike Level	Source Result	%REC	%REC Limits	RPD RPD	RPD Limit
Batch 1003324 - SW846 5035A Soil (low level)										
LCS Dup (1003324-BSD1)										
Prepared: 09-Feb-10 Analyzed: 10-Feb-10										
1,2-Dichloroethane	18.2		µg/kg wet		20.0	91	70-130	6	25	
1,1-Dichloroethene	20.7		µg/kg wet		20.0	103	70-130	20	25	
cis-1,2-Dichloroethene	18.6		µg/kg wet		20.0	93	70-130	5	25	
trans-1,2-Dichloroethene	17.4		µg/kg wet		20.0	87	70-130	6	25	
1,2-Dichloropropane	18.6		µg/kg wet		20.0	93	70-130	3	25	
1,3-Dichloropropane	19.1		µg/kg wet		20.0	96	70-130	8	25	
2,2-Dichloropropane	19.1	QR5	µg/kg wet		20.0	95	70-130	145	25	
1,1-Dichloropropene	20.5		µg/kg wet		20.0	103	70-130	18	25	
cis-1,3-Dichloropropene	16.8	QR5	µg/kg wet		20.0	84	70-130	30	25	
trans-1,3-Dichloropropene	15.3	QR5	µg/kg wet		20.0	76	70-130	36	25	
Ethylbenzene	19.1		µg/kg wet		20.0	96	70-130	9	25	
Hexachlorobutadiene	18.9		µg/kg wet		20.0	94	70-135	20	50	
2-Hexanone (MBK)	21.5		µg/kg wet		20.0	108	70-130	24	25	
Isopropylbenzene	16.2		µg/kg wet		20.0	81	70-130	12	25	
4-Isopropyltoluene	20.7		µg/kg wet		20.0	103	70-130	12	25	
Methyl tert-butyl ether	18.0		µg/kg wet		20.0	90	70-130	2	25	
4-Methyl-2-pentanone (MIBK)	18.6		µg/kg wet		20.0	93	64.2-130	19	50	
Methylene chloride	17.0		µg/kg wet		20.0	85	70-130	3	25	
Naphthalene	17.4	CAL1	µg/kg wet		20.0	87	70-130	9	25	
n-Propylbenzene	18.5		µg/kg wet		20.0	92	70-130	18	25	
Styrene	18.0	QR5	µg/kg wet		20.0	90	70-130	186	25	
1,1,1,2-Tetrachloroethane	20.2		µg/kg wet		20.0	101	70-130	6	25	
1,1,2,2-Tetrachloroethane	20.8		µg/kg wet		20.0	104	70-130	9	25	
Tetrachloroethene	21.1		µg/kg wet		20.0	106	70-130	23	25	
Toluene	18.0		µg/kg wet		20.0	90	70-130	9	25	
1,2,3-Trichlorobenzene	18.4	CAL1	µg/kg wet		20.0	92	70-130	8	25	
1,2,4-Trichlorobenzene	18.5	CAL1	µg/kg wet		20.0	92	70-130	10	25	
1,3,5-Trichlorobenzene	18.3		µg/kg wet		20.0	91	70-130	9	25	
1,1,1-Trichloroethane	20.6		µg/kg wet		20.0	103	70-130	17	25	
1,1,2-Trichloroethane	19.5		µg/kg wet		20.0	97	70-130	6	25	
Trichloroethene	19.4		µg/kg wet		20.0	97	70-130	10	25	
Trichlorofluoromethane (Freon 11)	24.7		µg/kg wet		20.0	124	55.3-174	21	50	
1,2,3-Trichloropropane	23.0		µg/kg wet		20.0	115	70-130	4	25	
1,2,4-Trimethylbenzene	17.7		µg/kg wet		20.0	89	70-130	8	25	
1,3,5-Trimethylbenzene	17.9		µg/kg wet		20.0	90	70-130	10	25	
Vinyl chloride	20.8		µg/kg wet		20.0	104	70-130	18	25	
m,p-Xylene	37.4		µg/kg wet		40.0	93	70-130	7	25	
o-Xylene	19.0		µg/kg wet		20.0	95	70-130	13	25	
Tetrahydrofuran	20.6	QR2	µg/kg wet		20.0	103	70-130	30	25	
Ethyl ether	18.6		µg/kg wet		20.0	93	70-130	8	50	
Tert-amyl methyl ether	18.0		µg/kg wet		20.0	90	70-130	5	25	
Ethyl tert-butyl ether	17.1		µg/kg wet		20.0	85	70-130	5	25	
Di-isopropyl ether	17.1		µg/kg wet		20.0	85	70-130	5	25	
Tert-Butanol / butyl alcohol	206		µg/kg wet		200	103	70-130	15	25	
1,4-Dioxane	208	QR2	µg/kg wet		200	104	44.2-151	56	25	
trans-1,4-Dichloro-2-butene	19.8	QR5	µg/kg wet		20.0	99	70-130	57	25	
Ethanol	449		µg/kg wet		400	112	70-130	24	30	
Surrogate: 4-Bromofluorobenzene	53.0		µg/kg wet		50.0	106	70-130			
Surrogate: Toluene-d8	48.8		µg/kg wet		50.0	98	70-130			
Surrogate: 1,2-Dichloroethane-d4	50.5		µg/kg wet		50.0	101	70-130			

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Volatile Organic Compounds - Quality Control

Analyte(s)	Result	Flag	Units	*RDL	Spike Level	Source Result	%REC	%REC Limits	RPD RPD	RPD Limit
Batch 1003324 - SW846 5035A Soil (low level)										
LCS Dup (1003324-BSD1)										
Prepared: 09-Feb-10 Analyzed: 10-Feb-10										
Surrogate: Dibromofluoromethane	49.6		µg/kg wet		50.0		99	70-130		
Batch 1003387 - VPH - EPA 5030B										
Blank (1003387-BLK1)										
Prepared & Analyzed: 10-Feb-10										
C5-C8 Aliphatic Hydrocarbons	BRL		µg/kg wet we	0.750						
C9-C12 Aliphatic Hydrocarbons	BRL		µg/kg wet we	0.250						
C9-C10 Aromatic Hydrocarbons	BRL		µg/kg wet we	0.250						
Unadjusted C5-C8 Aliphatic Hydrocarbons	BRL		µg/kg wet we	0.750						
Unadjusted C9-C12 Aliphatic Hydrocarbons	BRL		µg/kg wet we	0.250						
Benzene	BRL		µg/kg wet we	50.0						
Ethylbenzene	BRL		µg/kg wet we	50.0						
Methyl tert-butyl ether	BRL		µg/kg wet we	50.0						
Naphthalene	BRL		µg/kg wet we	50.0						
Toluene	BRL		µg/kg wet we	50.0						
m,p-Xylene	BRL		µg/kg wet we	100						
o-Xylene	BRL		µg/kg wet we	50.0						
2-Methylpentane	BRL		µg/kg wet we	50.0						
n-Nonane	BRL		µg/kg wet we	100						
n-Pentane	BRL		µg/kg wet we	100						
1,2,4-Trimethylbenzene	BRL		µg/kg wet we	50.0						
2,2,4-Trimethylpentane	BRL		µg/kg wet we	50.0						
n-Butylcyclohexane	BRL		µg/kg wet we	50.0						
n-Decane	BRL		µg/kg wet we	50.0						
Surrogate: 2,5-Dibromotoluene (FID)	57.9		µg/kg wet		50.0		116	70-130		
Surrogate: 2,5-Dibromotoluene (PID)	60.5		µg/kg wet		50.0		121	70-130		
LCS (1003387-BS1)										
Prepared & Analyzed: 10-Feb-10										
C5-C8 Aliphatic Hydrocarbons	45.2		µg/kg wet		60.0		75	70-130		
C9-C12 Aliphatic Hydrocarbons	58.1		µg/kg wet		60.0		97	70-130		
C9-C10 Aromatic Hydrocarbons	23.6		µg/kg wet		20.0		118	70-130		
Unadjusted C5-C8 Aliphatic Hydrocarbons	189		µg/kg wet		200		95	70-130		
Unadjusted C9-C12 Aliphatic Hydrocarbons	81.7		µg/kg wet		80.0		102	70-130		
Benzene	25.8		µg/kg wet		20.0		129	70-130		
Ethylbenzene	23.1		µg/kg wet		20.0		116	70-130		
Methyl tert-butyl ether	25.8		µg/kg wet		20.0		129	70-130		
Naphthalene	19.9		µg/kg wet		20.0		100	70-130		
Toluene	25.8		µg/kg wet		20.0		129	70-130		
m,p-Xylene	43.6		µg/kg wet		40.0		109	70-130		
o-Xylene	21.5		µg/kg wet		20.0		107	70-130		
2-Methylpentane	25.7		µg/kg wet		20.0		128	70-130		
n-Nonane	23.5		µg/kg wet		20.0		118	70-130		
n-Pentane	25.6		µg/kg wet		20.0		128	70-130		
1,2,4-Trimethylbenzene	20.3		µg/kg wet		20.0		102	70-130		
2,2,4-Trimethylpentane	25.2		µg/kg wet		20.0		126	70-130		
n-Butylcyclohexane	20.5		µg/kg wet		20.0		102	70-130		
n-Decane	20.6		µg/kg wet		20.0		103	70-130		

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* Reportable Detection Limit

BRL = Below Reporting Limit

Page 30 of 62

Volatile Organic Compounds - Quality Control

Analyte(s)	Result	Flag	Units	*RDL	Spike Level	Source Result	%REC	%REC Limits	RPD RPD	RPD Limit
Batch 1003387 - VPH - EPA 5030B										
LCS (1003387-BS1)										
Prepared & Analyzed: 10-Feb-10										
<i>Surrogate: 2,5-Dibromotoluene (FID)</i> 39.8 µg/kg wet 50.0 80 70-130										
<i>Surrogate: 2,5-Dibromotoluene (PID)</i> 42.0 µg/kg wet 50.0 84 70-130										
LCS Dup (1003387-BSD1)										
Prepared & Analyzed: 10-Feb-10										
C5-C8 Aliphatic Hydrocarbons	43.6		µg/kg wet		60.0	73	70-130	4	25	
C9-C12 Aliphatic Hydrocarbons	58.6		µg/kg wet		60.0	98	70-130	0.8	25	
C9-C10 Aromatic Hydrocarbons	23.6		µg/kg wet		20.0	118	70-130	0.008	25	
Unadjusted C5-C8 Aliphatic Hydrocarbons	185		µg/kg wet		200	93	70-130	2	25	
Unadjusted C9-C12 Aliphatic Hydrocarbons	82.2		µg/kg wet		80.0	103	70-130	0.6	25	
Benzene	23.6		µg/kg wet		20.0	118	70-130	9	25	
Ethylbenzene	23.6		µg/kg wet		20.0	118	70-130	2	25	
Methyl tert-butyl ether	23.7		µg/kg wet		20.0	118	70-130	8	25	
Naphthalene	21.9		µg/kg wet		20.0	110	70-130	10	25	
Toluene	24.0		µg/kg wet		20.0	120	70-130	7	25	
m,p-Xylene	46.8		µg/kg wet		40.0	117	70-130	7	25	
o-Xylene	23.8		µg/kg wet		20.0	119	70-130	10	25	
2-Methylpentane	24.7		µg/kg wet		20.0	124	70-130	4	25	
n-Nonane	21.3		µg/kg wet		20.0	106	70-130	10	25	
n-Pentane	24.1		µg/kg wet		20.0	121	70-130	6	25	
1,2,4-Trimethylbenzene	23.2		µg/kg wet		20.0	116	70-130	13	25	
2,2,4-Trimethylpentane	23.5		µg/kg wet		20.0	118	70-130	7	25	
n-Butylcyclohexane	21.7		µg/kg wet		20.0	108	70-130	6	25	
n-Decane	21.0		µg/kg wet		20.0	105	70-130	2	25	
<i>Surrogate: 2,5-Dibromotoluene (FID)</i> 50.3 µg/kg wet 50.0 101 70-130										
<i>Surrogate: 2,5-Dibromotoluene (PID)</i> 51.6 µg/kg wet 50.0 103 70-130										

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Semivolatile Organic Compounds by GC - Quality Control

Analyte(s)	Result	Flag	Units	*RDL	Spike Level	Source Result	%REC	%REC Limits	RPD RPD	RPD Limit
Batch 1003462 - SW846 3545A										
<u>Blank (1003462-BLK1)</u>										
Prepared: 11-Feb-10 Analyzed: 12-Feb-10										
alpha-BHC	BRL		µg/kg wet we	5.00						
alpha-BHC [2C]	BRL		µg/kg wet we	5.00						
beta-BHC	BRL		µg/kg wet we	5.00						
beta-BHC [2C]	BRL		µg/kg wet we	5.00						
delta-BHC	BRL		µg/kg wet we	5.00						
delta-BHC [2C]	BRL		µg/kg wet we	5.00						
gamma-BHC (Lindane)	BRL		µg/kg wet we	5.00						
gamma-BHC (Lindane) [2C]	BRL		µg/kg wet we	5.00						
Heptachlor	BRL		µg/kg wet we	5.00						
Heptachlor [2C]	BRL		µg/kg wet we	5.00						
Aldrin	BRL		µg/kg wet we	5.00						
Aldrin [2C]	BRL		µg/kg wet we	5.00						
Heptachlor epoxide	BRL		µg/kg wet we	5.00						
Heptachlor epoxide [2C]	BRL		µg/kg wet we	5.00						
Endosulfan I	BRL		µg/kg wet we	5.00						
Endosulfan I [2C]	BRL		µg/kg wet we	5.00						
Dieldrin	BRL		µg/kg wet we	5.00						
Dieldrin [2C]	BRL		µg/kg wet we	5.00						
4,4'-DDE (p,p')	BRL		µg/kg wet we	5.00						
4,4'-DDE (p,p') [2C]	BRL		µg/kg wet we	5.00						
Endrin	BRL		µg/kg wet we	8.00						
Endrin [2C]	BRL		µg/kg wet we	8.00						
Endosulfan II	BRL		µg/kg wet we	8.00						
Endosulfan II [2C]	BRL		µg/kg wet we	8.00						
4,4'-DDD (p,p')	BRL		µg/kg wet we	8.00						
4,4'-DDD (p,p') [2C]	BRL		µg/kg wet we	8.00						
Endosulfan sulfate	BRL		µg/kg wet we	8.00						
Endosulfan sulfate [2C]	BRL		µg/kg wet we	8.00						
4,4'-DDT (p,p')	BRL		µg/kg wet we	8.00						
4,4'-DDT (p,p') [2C]	BRL		µg/kg wet we	8.00						
Methoxychlor	BRL		µg/kg wet we	8.00						
Methoxychlor [2C]	BRL		µg/kg wet we	8.00						
Endrin ketone	BRL		µg/kg wet we	8.00						
Endrin ketone [2C]	BRL		µg/kg wet we	8.00						
Endrin aldehyde	BRL		µg/kg wet we	8.00						
Endrin aldehyde [2C]	BRL		µg/kg wet we	8.00						
alpha-Chlordane	BRL		µg/kg wet we	5.00						
alpha-Chlordane [2C]	BRL		µg/kg wet we	5.00						
gamma-Chlordane	BRL		µg/kg wet we	5.00						
gamma-Chlordane [2C]	BRL		µg/kg wet we	5.00						
Toxaphene	BRL		µg/kg wet we	100						
Toxaphene [2C]	BRL		µg/kg wet we	100						
Chlordane	BRL		µg/kg wet we	20.0						
Chlordane [2C]	BRL		µg/kg wet we	20.0						
Alachlor	BRL		µg/kg wet we	5.00						
Alachlor [2C]	BRL		µg/kg wet we	5.00						
Surrogate: 4,4-DB-Octafluorobiphenyl (Sr)	8.29		µg/kg wet we		20.0		41	30-150		
Surrogate: 4,4-DB-Octafluorobiphenyl (Sr) [2C]	8.02		µg/kg wet we		20.0		40	30-150		

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* Reportable Detection Limit BRL = Below Reporting Limit

Page 32 of 62

Semivolatile Organic Compounds by GC - Quality Control

Analyte(s)	Result	Flag	Units	*RDL	Spike Level	Source Result	%REC	%REC Limits	RPD RPD	RPD Limit
Batch 1003462 - SW846 3545A										
<u>Blank (1003462-BLK1)</u>										
Prepared: 11-Feb-10 Analyzed: 12-Feb-10										
Surrogate: Decachlorobiphenyl (Sr)	11.4		µg/kg wet we		20.0		57	30-150		
Surrogate: Decachlorobiphenyl (Sr) [2C]	12.3		µg/kg wet we		20.0		61	30-150		
<u>LCS (1003462-BS1)</u>										
Prepared: 11-Feb-10 Analyzed: 12-Feb-10										
alpha-BHC	38.1		µg/kg wet we	5.00	50.0		76	40-140		
alpha-BHC [2C]	37.8		µg/kg wet we	5.00	50.0		76	40-140		
beta-BHC	40.5		µg/kg wet we	5.00	50.0		81	40-140		
beta-BHC [2C]	41.4		µg/kg wet we	5.00	50.0		83	40-140		
delta-BHC	37.5		µg/kg wet we	5.00	50.0		75	40-140		
delta-BHC [2C]	33.8		µg/kg wet we	5.00	50.0		68	40-140		
gamma-BHC (Lindane)	41.4		µg/kg wet we	5.00	50.0		83	50-120		
gamma-BHC (Lindane) [2C]	39.7		µg/kg wet we	5.00	50.0		79	50-120		
Heptachlor	39.3		µg/kg wet we	5.00	50.0		79	40-140		
Heptachlor [2C]	36.6		µg/kg wet we	5.00	50.0		73	40-140		
Aldrin	36.4		µg/kg wet we	5.00	50.0		73	40-140		
Aldrin [2C]	33.9		µg/kg wet we	5.00	50.0		68	40-140		
Heptachlor epoxide	38.5		µg/kg wet we	5.00	50.0		77	50-140		
Heptachlor epoxide [2C]	36.7		µg/kg wet we	5.00	50.0		73	50-140		
Endosulfan I	36.7		µg/kg wet we	5.00	50.0		73	40-140		
Endosulfan I [2C]	35.6		µg/kg wet we	5.00	50.0		71	40-140		
Dieldrin	37.3		µg/kg wet we	5.00	50.0		75	40-130		
Dieldrin [2C]	38.6		µg/kg wet we	5.00	50.0		77	40-130		
4,4'-DDE (p,p')	36.9		µg/kg wet we	5.00	50.0		74	50-140		
4,4'-DDE (p,p') [2C]	34.7		µg/kg wet we	5.00	50.0		69	50-140		
Endrin	35.6		µg/kg wet we	8.00	50.0		71	50-120		
Endrin [2C]	35.5		µg/kg wet we	8.00	50.0		71	50-120		
Endosulfan II	37.8		µg/kg wet we	8.00	50.0		76	40-140		
Endosulfan II [2C]	37.9		µg/kg wet we	8.00	50.0		76	40-140		
4,4'-DDD (p,p')	36.0		µg/kg wet we	8.00	50.0		72	40-140		
4,4'-DDD (p,p') [2C]	35.6		µg/kg wet we	8.00	50.0		71	40-140		
Endosulfan sulfate	35.2		µg/kg wet we	8.00	50.0		70	50-120		
Endosulfan sulfate [2C]	34.6		µg/kg wet we	8.00	50.0		69	50-120		
4,4'-DDT (p,p')	41.3		µg/kg wet we	8.00	50.0		83	40-140		
4,4'-DDT (p,p') [2C]	38.8		µg/kg wet we	8.00	50.0		78	40-140		
Methoxychlor	38.9		µg/kg wet we	8.00	50.0		78	40-140		
Methoxychlor [2C]	36.7		µg/kg wet we	8.00	50.0		73	40-140		
Endrin ketone	39.2		µg/kg wet we	8.00	50.0		78	40-140		
Endrin ketone [2C]	39.4		µg/kg wet we	8.00	50.0		79	40-140		
Endrin aldehyde	40.8		µg/kg wet we	8.00	50.0		82	40-140		
Endrin aldehyde [2C]	25.3		µg/kg wet we	8.00	50.0		51	40-140		
alpha-Chlordane	38.2		µg/kg wet we	5.00	50.0		76	40-140		
alpha-Chlordane [2C]	36.4		µg/kg wet we	5.00	50.0		73	40-140		
gamma-Chlordane	38.3		µg/kg wet we	5.00	50.0		77	40-130		
gamma-Chlordane [2C]	35.9		µg/kg wet we	5.00	50.0		72	40-130		
Alachlor	41.1		µg/kg wet we	5.00	50.0		82	40-140		
Alachlor [2C]	36.6		µg/kg wet we	5.00	50.0		73	40-140		
Surrogate: 4,4-DB-Octafluorobiphenyl (Sr)	8.55		µg/kg wet we		20.0		43	30-150		

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Semivolatile Organic Compounds by GC - Quality Control

Analyte(s)	Result	Flag	Units	*RDL	Spike Level	Source Result	%REC	%REC Limits	RPD RPD	RPD Limit
Batch 1003462 - SW846 3545A										
LCS (1003462-BS1)										
Prepared: 11-Feb-10 Analyzed: 12-Feb-10										
Surrogate: 4,4-DB-Octafluorobiphenyl (Sr) [2C]	8.48		µg/kg wet we		20.0		42	30-150		
Surrogate: Decachlorobiphenyl (Sr)	11.5		µg/kg wet we		20.0		58	30-150		
Surrogate: Decachlorobiphenyl (Sr) [2C]	12.0		µg/kg wet we		20.0		60	30-150		
LCS Dup (1003462-BSD1)										
Prepared: 11-Feb-10 Analyzed: 12-Feb-10										
alpha-BHC	38.0		µg/kg wet we	5.00	50.0		76	40-140	0.2	20
alpha-BHC [2C]	37.3		µg/kg wet we	5.00	50.0		75	40-140	1	20
beta-BHC	40.8		µg/kg wet we	5.00	50.0		82	40-140	0.9	20
beta-BHC [2C]	41.3		µg/kg wet we	5.00	50.0		83	40-140	0.3	20
delta-BHC	37.4		µg/kg wet we	5.00	50.0		75	40-140	0.1	20
delta-BHC [2C]	33.7		µg/kg wet we	5.00	50.0		67	40-140	0.5	20
gamma-BHC (Lindane)	41.6		µg/kg wet we	5.00	50.0		83	50-120	0.4	20
gamma-BHC (Lindane) [2C]	39.4		µg/kg wet we	5.00	50.0		79	50-120	0.8	20
Heptachlor	39.5		µg/kg wet we	5.00	50.0		79	40-140	0.4	20
Heptachlor [2C]	36.2		µg/kg wet we	5.00	50.0		72	40-140	1	20
Aldrin	36.3		µg/kg wet we	5.00	50.0		73	40-140	0.3	20
Aldrin [2C]	33.4		µg/kg wet we	5.00	50.0		67	40-140	1	20
Heptachlor epoxide	38.4		µg/kg wet we	5.00	50.0		77	50-140	0.1	20
Heptachlor epoxide [2C]	36.4		µg/kg wet we	5.00	50.0		73	50-140	0.8	20
Endosulfan I	36.3		µg/kg wet we	5.00	50.0		73	40-140	1	20
Endosulfan I [2C]	35.1		µg/kg wet we	5.00	50.0		70	40-140	1	20
Dieldrin	36.7		µg/kg wet we	5.00	50.0		73	40-130	2	20
Dieldrin [2C]	38.2		µg/kg wet we	5.00	50.0		76	40-130	1	20
4,4'-DDE (p,p')	36.1		µg/kg wet we	5.00	50.0		72	50-140	2	20
4,4'-DDE (p,p') [2C]	34.1		µg/kg wet we	5.00	50.0		68	50-140	2	20
Endrin	35.0		µg/kg wet we	8.00	50.0		70	50-120	2	20
Endrin [2C]	41.0		µg/kg wet we	8.00	50.0		82	50-120	14	20
Endosulfan II	37.2		µg/kg wet we	8.00	50.0		74	40-140	1	20
Endosulfan II [2C]	37.3		µg/kg wet we	8.00	50.0		75	40-140	2	20
4,4'-DDD (p,p')	35.3		µg/kg wet we	8.00	50.0		71	40-140	2	20
4,4'-DDD (p,p') [2C]	35.0		µg/kg wet we	8.00	50.0		70	40-140	2	20
Endosulfan sulfate	34.6		µg/kg wet we	8.00	50.0		69	50-120	2	20
Endosulfan sulfate [2C]	33.9		µg/kg wet we	8.00	50.0		68	50-120	2	20
4,4'-DDT (p,p')	45.4		µg/kg wet we	8.00	50.0		91	40-140	9	20
4,4'-DDT (p,p') [2C]	37.8		µg/kg wet we	8.00	50.0		76	40-140	2	20
Methoxychlor	38.4		µg/kg wet we	8.00	50.0		77	40-140	1	20
Methoxychlor [2C]	36.1		µg/kg wet we	8.00	50.0		72	40-140	2	20
Endrin ketone	38.6		µg/kg wet we	8.00	50.0		77	40-140	1	20
Endrin ketone [2C]	38.8		µg/kg wet we	8.00	50.0		78	40-140	2	20
Endrin aldehyde	40.0		µg/kg wet we	8.00	50.0		80	40-140	2	20
Endrin aldehyde [2C]	25.1		µg/kg wet we	8.00	50.0		50	40-140	0.6	20
alpha-Chlordane	37.7		µg/kg wet we	5.00	50.0		75	40-140	1	20
alpha-Chlordane [2C]	35.9		µg/kg wet we	5.00	50.0		72	40-140	1	20
gamma-Chlordane	37.9		µg/kg wet we	5.00	50.0		76	40-130	0.9	20
gamma-Chlordane [2C]	35.5		µg/kg wet we	5.00	50.0		71	40-130	1	20
Alachlor	41.0		µg/kg wet we	5.00	50.0		82	40-140	0.3	20
Alachlor [2C]	36.3		µg/kg wet we	5.00	50.0		73	40-140	0.6	20

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Semivolatile Organic Compounds by GC - Quality Control

Analyte(s)	Result	Flag	Units	*RDL	Spike Level	Source Result	%REC	%REC Limits	RPD RPD	RPD Limit
Batch 1003462 - SW846 3545A										
LCS Dup (1003462-BSD1)										
Prepared: 11-Feb-10 Analyzed: 12-Feb-10										
Surrogate: 4,4-DB-Octafluorobiphenyl (Sr)	8.31		µg/kg wet we		20.0		42	30-150		
Surrogate: 4,4-DB-Octafluorobiphenyl (Sr) [2C]	8.39		µg/kg wet we		20.0		42	30-150		
Surrogate: Decachlorobiphenyl (Sr)	11.3		µg/kg wet we		20.0		56	30-150		
Surrogate: Decachlorobiphenyl (Sr) [2C]	11.5		µg/kg wet we		20.0		57	30-150		
Duplicate (1003462-DUP1)		Source: SB07646-01								
Prepared: 11-Feb-10 Analyzed: 12-Feb-10										
alpha-BHC	BRL		µg/kg dry dry	5.10		BRL				30
alpha-BHC [2C]	BRL		µg/kg dry dry	5.10		BRL				30
beta-BHC	BRL		µg/kg dry dry	5.10		BRL				30
beta-BHC [2C]	BRL		µg/kg dry dry	5.10		BRL				30
delta-BHC	BRL		µg/kg dry dry	5.10		BRL				30
delta-BHC [2C]	BRL		µg/kg dry dry	5.10		BRL				30
gamma-BHC (Lindane)	BRL		µg/kg dry dry	5.10		BRL				30
gamma-BHC (Lindane) [2C]	BRL		µg/kg dry dry	5.10		BRL				30
Heptachlor	BRL		µg/kg dry dry	5.10		BRL				30
Heptachlor [2C]	BRL		µg/kg dry dry	5.10		BRL				30
Aldrin	BRL		µg/kg dry dry	5.10		BRL				30
Aldrin [2C]	BRL		µg/kg dry dry	5.10		BRL				30
Heptachlor epoxide	BRL		µg/kg dry dry	5.10		BRL				30
Heptachlor epoxide [2C]	BRL		µg/kg dry dry	5.10		BRL				30
Endosulfan I	BRL		µg/kg dry dry	5.10		BRL				30
Endosulfan I [2C]	BRL		µg/kg dry dry	5.10		BRL				30
Dieldrin	BRL		µg/kg dry dry	5.10		BRL				30
Dieldrin [2C]	BRL		µg/kg dry dry	5.10		BRL				30
4,4'-DDE (p,p')	BRL		µg/kg dry dry	5.10		BRL				30
4,4'-DDE (p,p') [2C]	BRL		µg/kg dry dry	5.10		BRL				30
Endrin	BRL		µg/kg dry dry	8.15		BRL				30
Endrin [2C]	BRL		µg/kg dry dry	8.15		BRL				30
Endosulfan II	BRL		µg/kg dry dry	8.15		BRL				30
Endosulfan II [2C]	BRL		µg/kg dry dry	8.15		BRL				30
4,4'-DDD (p,p')	BRL		µg/kg dry dry	8.15		BRL				30
4,4'-DDD (p,p') [2C]	BRL		µg/kg dry dry	8.15		BRL				30
Endosulfan sulfate	BRL		µg/kg dry dry	8.15		BRL				30
Endosulfan sulfate [2C]	BRL		µg/kg dry dry	8.15		BRL				30
4,4'-DDT (p,p')	BRL		µg/kg dry dry	8.15		BRL				30
4,4'-DDT (p,p') [2C]	BRL		µg/kg dry dry	8.15		BRL				30
Methoxychlor	BRL		µg/kg dry dry	8.15		BRL				30
Methoxychlor [2C]	BRL		µg/kg dry dry	8.15		BRL				30
Endrin ketone	BRL		µg/kg dry dry	8.15		BRL				30
Endrin ketone [2C]	BRL		µg/kg dry dry	8.15		BRL				30
Endrin aldehyde	BRL		µg/kg dry dry	8.15		BRL				30
Endrin aldehyde [2C]	BRL		µg/kg dry dry	8.15		BRL				30
alpha-Chlordane	BRL		µg/kg dry dry	5.10		BRL				30
alpha-Chlordane [2C]	BRL		µg/kg dry dry	5.10		BRL				30
gamma-Chlordane	BRL		µg/kg dry dry	5.10		BRL				30
gamma-Chlordane [2C]	BRL		µg/kg dry dry	5.10		BRL				30
Toxaphene	BRL		µg/kg dry dry	102		BRL				30

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* Reportable Detection Limit BRL = Below Reporting Limit

Page 35 of 62

Semivolatile Organic Compounds by GC - Quality Control

Analyte(s)	Result	Flag	Units	*RDL	Spike Level	Source Result	%REC	%REC Limits	RPD RPD	RPD Limit
Batch 1003462 - SW846 3545A										
<u>Duplicate (1003462-DUP1)</u>	Source: SB07646-01									
Prepared: 11-Feb-10 Analyzed: 12-Feb-10										
Toxaphene [2C]	BRL		µg/kg dry dry	102		BRL				30
Chlordane	BRL		µg/kg dry dry	20.4		BRL				30
Chlordane [2C]	BRL		µg/kg dry dry	20.4		BRL				30
Aalachlor	BRL		µg/kg dry dry	5.10		BRL				30
Aalachlor [2C]	BRL		µg/kg dry dry	5.10		BRL				30
<i>Surrogate: 4,4-DB-Octafluorobiphenyl (Sr)</i>	11.7		µg/kg dry dry		20.4		57	30-150		
<i>Surrogate: 4,4-DB-Octafluorobiphenyl (Sr) [2C]</i>	9.73		µg/kg dry dry		20.4		48	30-150		
<i>Surrogate: Decachlorobiphenyl (Sr)</i>	15.8		µg/kg dry dry		20.4		78	30-150		
<i>Surrogate: Decachlorobiphenyl (Sr) [2C]</i>	20.5		µg/kg dry dry		20.4		101	30-150		
Matrix Spike (1003462-MS1)										
Source: SB07646-01										
Prepared: 11-Feb-10 Analyzed: 12-Feb-10										
alpha-BHC	46.3		µg/kg dry dry	4.98	49.8	BRL	93	30-150		
alpha-BHC [2C]	46.7		µg/kg dry dry	4.98	49.8	BRL	94	30-150		
beta-BHC	49.8		µg/kg dry dry	4.98	49.8	BRL	100	30-150		
beta-BHC [2C]	52.9		µg/kg dry dry	4.98	49.8	BRL	106	30-150		
delta-BHC	46.8		µg/kg dry dry	4.98	49.8	BRL	94	30-150		
delta-BHC [2C]	44.8		µg/kg dry dry	4.98	49.8	BRL	90	30-150		
gamma-BHC (Lindane)	50.7		µg/kg dry dry	4.98	49.8	BRL	102	46-127		
gamma-BHC (Lindane) [2C]	52.8		µg/kg dry dry	4.98	49.8	BRL	106	46-127		
Heptachlor	51.3		µg/kg dry dry	4.98	49.8	BRL	103	35-130		
Heptachlor [2C]	48.4		µg/kg dry dry	4.98	49.8	BRL	97	35-130		
Aldrin	46.8		µg/kg dry dry	4.98	49.8	BRL	94	34-132		
Aldrin [2C]	46.1		µg/kg dry dry	4.98	49.8	BRL	93	34-132		
Heptachlor epoxide	48.9		µg/kg dry dry	4.98	49.8	BRL	98	30-150		
Heptachlor epoxide [2C]	48.6		µg/kg dry dry	4.98	49.8	BRL	98	30-150		
Endosulfan I	47.8		µg/kg dry dry	4.98	49.8	BRL	96	30-150		
Endosulfan I [2C]	49.0		µg/kg dry dry	4.98	49.8	BRL	98	30-150		
Dieldrin	48.3		µg/kg dry dry	4.98	49.8	BRL	97	31-134		
Dieldrin [2C]	49.3		µg/kg dry dry	4.98	49.8	BRL	99	31-134		
4,4'-DDE (p,p')	48.5		µg/kg dry dry	4.98	49.8	BRL	97	30-150		
4,4'-DDE (p,p') [2C]	49.2		µg/kg dry dry	4.98	49.8	BRL	99	30-150		
Endrin	45.3		µg/kg dry dry	7.96	49.8	BRL	91	42-139		
Endrin [2C]	48.2		µg/kg dry dry	7.96	49.8	BRL	97	42-139		
Endosulfan II	48.1		µg/kg dry dry	7.96	49.8	BRL	97	30-150		
Endosulfan II [2C]	51.3		µg/kg dry dry	7.96	49.8	BRL	103	30-150		
4,4'-DDD (p,p')	46.8		µg/kg dry dry	7.96	49.8	BRL	94	30-150		
4,4'-DDD (p,p') [2C]	49.0		µg/kg dry dry	7.96	49.8	BRL	98	30-150		
Endosulfan sulfate	43.4		µg/kg dry dry	7.96	49.8	BRL	87	30-150		
Endosulfan sulfate [2C]	45.4		µg/kg dry dry	7.96	49.8	BRL	91	30-150		
4,4'-DDT (p,p')	55.3		µg/kg dry dry	7.96	49.8	BRL	111	23-134		
4,4'-DDT (p,p') [2C]	54.7		µg/kg dry dry	7.96	49.8	BRL	110	23-134		
Methoxychlor	50.0		µg/kg dry dry	7.96	49.8	BRL	100	30-150		
Methoxychlor [2C]	48.4		µg/kg dry dry	7.96	49.8	BRL	97	30-150		
Endrin ketone	49.2		µg/kg dry dry	7.96	49.8	BRL	99	30-150		
Endrin ketone [2C]	53.6		µg/kg dry dry	7.96	49.8	BRL	108	30-150		
Endrin aldehyde	48.8		µg/kg dry dry	7.96	49.8	BRL	98	30-150		
Endrin aldehyde [2C]	54.0		µg/kg dry dry	7.96	49.8	BRL	108	30-150		

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* Reportable Detection Limit

BRL = Below Reporting Limit

Page 36 of 62

Semivolatile Organic Compounds by GC - Quality Control

Analyte(s)	Result	Flag	Units	*RDL	Spike Level	Source Result	%REC	%REC Limits	RPD RPD	RPD Limit
Batch 1003462 - SW846 3545A										
Matrix Spike (1003462-MS1) Source: SB07646-01										
Prepared: 11-Feb-10 Analyzed: 12-Feb-10										
alpha-Chlordane	49.5		µg/kg dry dry	4.98	49.8	BRL	99	30-150		
alpha-Chlordane [2C]	50.2		µg/kg dry dry	4.98	49.8	BRL	101	30-150		
gamma-Chlordane	274	QM7	µg/kg dry dry	4.98	49.8	BRL	551	30-150		
gamma-Chlordane [2C]	51.9		µg/kg dry dry	4.98	49.8	BRL	104	30-150		
Alachlor	45.4		µg/kg dry dry	4.98	49.8	BRL	91	30-150		
Alachlor [2C]	48.1		µg/kg dry dry	4.98	49.8	BRL	97	30-150		
<i>Surrogate: 4,4-DB-Octafluorobiphenyl (Sr)</i>	11.3		µg/kg dry dry		19.9		57	30-150		
<i>Surrogate: 4,4-DB-Octafluorobiphenyl (Sr) [2C]</i>	10.1		µg/kg dry dry		19.9		51	30-150		
<i>Surrogate: Decachlorobiphenyl (Sr)</i>	15.3		µg/kg dry dry		19.9		77	30-150		
<i>Surrogate: Decachlorobiphenyl (Sr) [2C]</i>	20.6		µg/kg dry dry		19.9		103	30-150		
Matrix Spike Dup (1003462-MSD1) Source: SB07646-01										
Prepared: 11-Feb-10 Analyzed: 12-Feb-10										
alpha-BHC	43.0		µg/kg dry dry	4.90	49.0	BRL	88	30-150	6	30
alpha-BHC [2C]	43.6		µg/kg dry dry	4.90	49.0	BRL	89	30-150	5	30
beta-BHC	46.4		µg/kg dry dry	4.90	49.0	BRL	95	30-150	6	30
beta-BHC [2C]	48.7		µg/kg dry dry	4.90	49.0	BRL	99	30-150	7	30
delta-BHC	41.7		µg/kg dry dry	4.90	49.0	BRL	85	30-150	10	30
delta-BHC [2C]	40.4		µg/kg dry dry	4.90	49.0	BRL	82	30-150	9	30
gamma-BHC (Lindane)	46.8		µg/kg dry dry	4.90	49.0	BRL	95	46-127	7	50
gamma-BHC (Lindane) [2C]	48.5		µg/kg dry dry	4.90	49.0	BRL	99	46-127	7	50
Heptachlor	47.7		µg/kg dry dry	4.90	49.0	BRL	97	35-130	6	31
Heptachlor [2C]	45.4		µg/kg dry dry	4.90	49.0	BRL	93	35-130	5	31
Aldrin	43.6		µg/kg dry dry	4.90	49.0	BRL	89	34-132	6	43
Aldrin [2C]	43.8		µg/kg dry dry	4.90	49.0	BRL	89	34-132	4	43
Heptachlor epoxide	45.5		µg/kg dry dry	4.90	49.0	BRL	93	30-150	6	30
Heptachlor epoxide [2C]	45.5		µg/kg dry dry	4.90	49.0	BRL	93	30-150	5	30
Endosulfan I	44.3		µg/kg dry dry	4.90	49.0	BRL	90	30-150	6	30
Endosulfan I [2C]	45.5		µg/kg dry dry	4.90	49.0	BRL	93	30-150	6	30
Dieldrin	44.5		µg/kg dry dry	4.90	49.0	BRL	91	31-134	7	38
Dieldrin [2C]	46.2		µg/kg dry dry	4.90	49.0	BRL	94	31-134	5	38
4,4'-DDE (p,p')	44.8		µg/kg dry dry	4.90	49.0	BRL	91	30-150	7	30
4,4'-DDE (p,p') [2C]	45.8		µg/kg dry dry	4.90	49.0	BRL	93	30-150	6	30
Endrin	41.9		µg/kg dry dry	7.85	49.0	BRL	85	42-139	6	45
Endrin [2C]	44.8		µg/kg dry dry	7.85	49.0	BRL	91	42-139	6	45
Endosulfan II	44.8		µg/kg dry dry	7.85	49.0	BRL	91	30-150	6	30
Endosulfan II [2C]	47.7		µg/kg dry dry	7.85	49.0	BRL	97	30-150	6	30
4,4'-DDD (p,p')	43.8		µg/kg dry dry	7.85	49.0	BRL	89	30-150	5	30
4,4'-DDD (p,p') [2C]	45.6		µg/kg dry dry	7.85	49.0	BRL	93	30-150	6	30
Endosulfan sulfate	41.1		µg/kg dry dry	7.85	49.0	BRL	84	30-150	4	30
Endosulfan sulfate [2C]	42.5		µg/kg dry dry	7.85	49.0	BRL	87	30-150	5	30
4,4'-DDT (p,p')	51.6		µg/kg dry dry	7.85	49.0	BRL	105	23-134	5	50
4,4'-DDT (p,p') [2C]	50.6		µg/kg dry dry	7.85	49.0	BRL	103	23-134	6	50
Methoxychlor	48.1		µg/kg dry dry	7.85	49.0	BRL	98	30-150	2	30
Methoxychlor [2C]	45.4		µg/kg dry dry	7.85	49.0	BRL	93	30-150	5	30
Endrin ketone	46.7		µg/kg dry dry	7.85	49.0	BRL	95	30-150	4	30
Endrin ketone [2C]	50.2		µg/kg dry dry	7.85	49.0	BRL	102	30-150	5	30
Endrin aldehyde	43.6		µg/kg dry dry	7.85	49.0	BRL	89	30-150	10	30

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Semivolatile Organic Compounds by GC - Quality Control

Analyte(s)	Result	Flag	Units	*RDL	Spike Level	Source Result	%REC	%REC Limits	RPD RPD	RPD Limit
Batch 1003462 - SW846 3545A										
<u>Matrix Spike Dup (1003462-MSD1)</u> Source: SB07646-01										
Prepared: 11-Feb-10 Analyzed: 12-Feb-10										
Endrin aldehyde [2C]	44.8		µg/kg dry dry	7.85	49.0	BRL	91	30-150	17	30
alpha-Chlordane	46.0		µg/kg dry dry	4.90	49.0	BRL	94	30-150	6	30
alpha-Chlordane [2C]	47.0		µg/kg dry dry	4.90	49.0	BRL	96	30-150	5	30
gamma-Chlordane	126	QM7	µg/kg dry dry	4.90	49.0	BRL	256	30-150	73	30
gamma-Chlordane [2C]	48.7		µg/kg dry dry	4.90	49.0	BRL	99	30-150	5	30
Alachlor	42.6		µg/kg dry dry	4.90	49.0	BRL	87	30-150	5	50
Alachlor [2C]	45.9		µg/kg dry dry	4.90	49.0	BRL	94	30-150	3	50
Surrogate: 4,4-DB-Octafluorobiphenyl (Sr)	8.69		µg/kg dry dry		19.6		44	30-150		
Surrogate: 4,4-DB-Octafluorobiphenyl (Sr) [2C]	9.44		µg/kg dry dry		19.6		48	30-150		
Surrogate: Decachlorobiphenyl (Sr)	14.9		µg/kg dry dry		19.6		76	30-150		
Surrogate: Decachlorobiphenyl (Sr) [2C]	19.4		µg/kg dry dry		19.6		99	30-150		
Batch 1003463 - SW846 3545A										
<u>Blank (1003463-BLK1)</u>										
Prepared: 11-Feb-10 Analyzed: 12-Feb-10										
Aroclor-1016	BRL		µg/kg wet we	20.0						
Aroclor-1016 [2C]	BRL		µg/kg wet we	20.0						
Aroclor-1221	BRL		µg/kg wet we	20.0						
Aroclor-1221 [2C]	BRL		µg/kg wet we	20.0						
Aroclor-1232	BRL		µg/kg wet we	20.0						
Aroclor-1232 [2C]	BRL		µg/kg wet we	20.0						
Aroclor-1242	BRL		µg/kg wet we	20.0						
Aroclor-1242 [2C]	BRL		µg/kg wet we	20.0						
Aroclor-1248	BRL		µg/kg wet we	20.0						
Aroclor-1248 [2C]	BRL		µg/kg wet we	20.0						
Aroclor-1254	BRL		µg/kg wet we	20.0						
Aroclor-1254 [2C]	BRL		µg/kg wet we	20.0						
Aroclor-1260	BRL		µg/kg wet we	20.0						
Aroclor-1260 [2C]	BRL		µg/kg wet we	20.0						
Aroclor-1262	BRL		µg/kg wet we	20.0						
Aroclor-1262 [2C]	BRL		µg/kg wet we	20.0						
Aroclor-1268	BRL		µg/kg wet we	20.0						
Aroclor-1268 [2C]	BRL		µg/kg wet we	20.0						
Surrogate: 4,4-DB-Octafluorobiphenyl (Sr)	11.8		µg/kg wet we		20.0		59	30-150		
Surrogate: 4,4-DB-Octafluorobiphenyl (Sr) [2C]	11.4		µg/kg wet we		20.0		57	30-150		
Surrogate: Decachlorobiphenyl (Sr)	21.6		µg/kg wet we		20.0		108	30-150		
Surrogate: Decachlorobiphenyl (Sr) [2C]	21.5		µg/kg wet we		20.0		108	30-150		
<u>LCS (1003463-BS1)</u>										
Prepared: 11-Feb-10 Analyzed: 12-Feb-10										
Aroclor-1016	229		µg/kg wet we	20.0	250		91	50-140		
Aroclor-1016 [2C]	234		µg/kg wet we	20.0	250		93	50-140		
Aroclor-1260	227		µg/kg wet we	20.0	250		91	50-140		
Aroclor-1260 [2C]	228		µg/kg wet we	20.0	250		91	50-140		
Surrogate: 4,4-DB-Octafluorobiphenyl (Sr)	11.7		µg/kg wet we		20.0		58	30-150		
Surrogate: 4,4-DB-Octafluorobiphenyl (Sr) [2C]	11.6		µg/kg wet we		20.0		58	30-150		

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Semivolatile Organic Compounds by GC - Quality Control

Analyte(s)	Result	Flag	Units	*RDL	Spike Level	Source Result	%REC	%REC Limits	RPD RPD	RPD Limit
Batch 1003463 - SW846 3545A										
LCS (1003463-BS1)										
Prepared: 11-Feb-10 Analyzed: 12-Feb-10										
Surrogate: Decachlorobiphenyl (Sr)	19.5		µg/kg wet we		20.0		98	30-150		
Surrogate: Decachlorobiphenyl (Sr) [2C]	22.0		µg/kg wet we		20.0		110	30-150		
LCS Dup (1003463-BSD1)										
Prepared: 11-Feb-10 Analyzed: 12-Feb-10										
Aroclor-1016	232		µg/kg wet we	20.0	250		93	50-140	1	30
Aroclor-1016 [2C]	231		µg/kg wet we	20.0	250		92	50-140	1	30
Aroclor-1260	216		µg/kg wet we	20.0	250		86	50-140	5	30
Aroclor-1260 [2C]	224		µg/kg wet we	20.0	250		89	50-140	2	30
Surrogate: 4,4-DB-Octafluorobiphenyl (Sr)	11.8		µg/kg wet we		20.0		59	30-150		
Surrogate: 4,4-DB-Octafluorobiphenyl (Sr) [2C]	11.7		µg/kg wet we		20.0		58	30-150		
Surrogate: Decachlorobiphenyl (Sr)	18.3		µg/kg wet we		20.0		92	30-150		
Surrogate: Decachlorobiphenyl (Sr) [2C]	22.2		µg/kg wet we		20.0		111	30-150		
Duplicate (1003463-DUP1)										
Source: SB07646-01										
Prepared: 11-Feb-10 Analyzed: 12-Feb-10										
Aroclor-1016	BRL		µg/kg dry dry	20.4		BRL				40
Aroclor-1016 [2C]	BRL		µg/kg dry dry	20.4		BRL				40
Aroclor-1221	BRL		µg/kg dry dry	20.4		BRL				40
Aroclor-1221 [2C]	BRL		µg/kg dry dry	20.4		BRL				40
Aroclor-1232	BRL		µg/kg dry dry	20.4		BRL				40
Aroclor-1232 [2C]	BRL		µg/kg dry dry	20.4		BRL				40
Aroclor-1242	BRL		µg/kg dry dry	20.4		BRL				40
Aroclor-1242 [2C]	BRL		µg/kg dry dry	20.4		BRL				40
Aroclor-1248	BRL		µg/kg dry dry	20.4		BRL				40
Aroclor-1248 [2C]	BRL		µg/kg dry dry	20.4		BRL				40
Aroclor-1254	BRL		µg/kg dry dry	20.4		BRL				40
Aroclor-1254 [2C]	BRL		µg/kg dry dry	20.4		BRL				40
Aroclor-1260	BRL		µg/kg dry dry	20.4		BRL				40
Aroclor-1260 [2C]	BRL		µg/kg dry dry	20.4		BRL				40
Aroclor-1262	BRL		µg/kg dry dry	20.4		BRL				40
Aroclor-1262 [2C]	BRL		µg/kg dry dry	20.4		BRL				40
Aroclor-1268	BRL		µg/kg dry dry	20.4		BRL				40
Aroclor-1268 [2C]	BRL		µg/kg dry dry	20.4		BRL				40
Surrogate: 4,4-DB-Octafluorobiphenyl (Sr)	11.1		µg/kg dry dry		20.4		54	30-150		
Surrogate: 4,4-DB-Octafluorobiphenyl (Sr) [2C]	16.0		µg/kg dry dry		20.4		78	30-150		
Surrogate: Decachlorobiphenyl (Sr)	20.0		µg/kg dry dry		20.4		98	30-150		
Surrogate: Decachlorobiphenyl (Sr) [2C]	22.2		µg/kg dry dry		20.4		109	30-150		
Matrix Spike (1003463-MS1)										
Source: SB07646-01										
Prepared: 11-Feb-10 Analyzed: 12-Feb-10										
Aroclor-1016	233		µg/kg dry dry	19.7	247	BRL	95	40-135		
Aroclor-1016 [2C]	212		µg/kg dry dry	19.7	247	BRL	86	40-135		
Aroclor-1260	225		µg/kg dry dry	19.7	247	BRL	91	40-135		
Aroclor-1260 [2C]	217		µg/kg dry dry	19.7	247	BRL	88	40-135		
Surrogate: 4,4-DB-Octafluorobiphenyl (Sr)	10.9		µg/kg dry dry		19.7		55	30-150		

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* Reportable Detection Limit BRL = Below Reporting Limit

Page 39 of 62

Semivolatile Organic Compounds by GC - Quality Control

Analyte(s)	Result	Flag	Units	*RDL	Spike Level	Source Result	%REC	%REC Limits	RPD RPD	RPD Limit
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Batch 1003463 - SW846 3545A
Matrix Spike (1003463-MS1) **Source: SB07646-01**

Prepared: 11-Feb-10 Analyzed: 12-Feb-10

Surrogate: 4,4-DB-Octafluorobiphenyl (Sr) [2C]	13.0	µg/kg dry dry	19.7		66	30-150				
Surrogate: Decachlorobiphenyl (Sr)	19.1	µg/kg dry dry	19.7		97	30-150				
Surrogate: Decachlorobiphenyl (Sr) [2C]	19.3	µg/kg dry dry	19.7		98	30-150				
Matrix Spike Dup (1003463-MSD1)	Source: SB07646-01									
Prepared: 11-Feb-10 Analyzed: 12-Feb-10										
Aroclor-1016	240	µg/kg dry dry	20.7	259	BRL	93	40-135	2	15	
Aroclor-1016 [2C]	254	µg/kg dry dry	20.7	259	BRL	98	40-135	13	15	
Aroclor-1260	222	µg/kg dry dry	20.7	259	BRL	86	40-135	7	20	
Aroclor-1260 [2C]	229	µg/kg dry dry	20.7	259	BRL	88	40-135	0.4	20	
Surrogate: 4,4-DB-Octafluorobiphenyl (Sr) [2C]	10.8	µg/kg dry dry	20.7		52	30-150				
Surrogate: 4,4-DB-Octafluorobiphenyl (Sr) [2C]	11.9	µg/kg dry dry	20.7		58	30-150				
Surrogate: Decachlorobiphenyl (Sr)	19.3	µg/kg dry dry	20.7		93	30-150				
Surrogate: Decachlorobiphenyl (Sr) [2C]	20.1	µg/kg dry dry	20.7		97	30-150				

Extractable Petroleum Hydrocarbons - Quality Control

Analyte(s)	Result	Flag	Units	*RDL	Spike Level	Source Result	%REC	%REC Limits	RPD RPD	RPD Limit
Batch 1003308 - SW846 3545A										
<u>Blank (1003308-BLK1)</u>										
Prepared: 09-Feb-10 Analyzed: 10-Feb-10										
C9-C18 Aliphatic Hydrocarbons	BRL		mg/kg wet we	5.00						
C19-C36 Aliphatic Hydrocarbons	BRL		mg/kg wet we	5.00						
C11-C22 Aromatic Hydrocarbons	BRL		mg/kg wet we	5.00						
Unadjusted C11-C22 Aromatic Hydrocarbons	BRL		mg/kg wet we	5.00						
Total Petroleum Hydrocarbons	BRL		mg/kg wet we	5.00						
Unadjusted Total Petroleum Hydrocarbons	BRL		mg/kg wet we	5.00						
Naphthalene	BRL		µg/kg wet we	166						
2-Methylnaphthalene	BRL		µg/kg wet we	166						
Acenaphthylene	BRL		µg/kg wet we	166						
Acenaphthene	BRL		µg/kg wet we	166						
Fluorene	BRL		µg/kg wet we	166						
Phenanthrene	BRL		µg/kg wet we	166						
Anthracene	BRL		µg/kg wet we	166						
Fluoranthene	BRL		µg/kg wet we	166						
Pyrene	BRL		µg/kg wet we	166						
Benzo (a) anthracene	BRL		µg/kg wet we	166						
Chrysene	BRL		µg/kg wet we	166						
Benzo (b) fluoranthene	BRL		µg/kg wet we	166						
Benzo (k) fluoranthene	BRL		µg/kg wet we	166						
Benzo (a) pyrene	BRL		µg/kg wet we	166						
Indeno (1,2,3-cd) pyrene	BRL		µg/kg wet we	166						
Dibenzo (a,h) anthracene	BRL		µg/kg wet we	166						
Benzo (g,h,i) perylene	BRL		µg/kg wet we	166						
<i>Surrogate: 1-Chlorooctadecane</i>	2370		µg/kg wet we		3330		71	40-140		
<i>Surrogate: Ortho-Terphenyl</i>	1900		µg/kg wet we		3330		57	40-140		
<i>Surrogate: 2-Fluorobiphenyl</i>	1710		µg/kg wet we		2670		64	40-140		
<u>LCS (1003308-BS1)</u>										
Prepared: 09-Feb-10 Analyzed: 10-Feb-10										
C9-C18 Aliphatic Hydrocarbons	20.3		mg/kg wet we	5.00	40.0		51	40-140		
C19-C36 Aliphatic Hydrocarbons	32.1		mg/kg wet we	5.00	53.3		60	40-140		
C11-C22 Aromatic Hydrocarbons	74.7		mg/kg wet we	5.00	113		66	40-140		
Naphthalene	3530		µg/kg wet we	166	6670		53	40-140		
2-Methylnaphthalene	3660		µg/kg wet we	166	6670		55	40-140		
Acenaphthylene	3880		µg/kg wet we	166	6670		58	40-140		
Acenaphthene	3990		µg/kg wet we	166	6670		60	40-140		
Fluorene	4280		µg/kg wet we	166	6670		64	40-140		
Phenanthrene	4430		µg/kg wet we	166	6670		66	40-140		
Anthracene	4380		µg/kg wet we	166	6670		66	40-140		
Fluoranthene	4580		µg/kg wet we	166	6670		69	40-140		
Pyrene	4650		µg/kg wet we	166	6670		70	40-140		
Benzo (a) anthracene	4560		µg/kg wet we	166	6670		68	40-140		
Chrysene	4790		µg/kg wet we	166	6670		72	40-140		
Benzo (b) fluoranthene	3810		µg/kg wet we	166	6670		57	40-140		
Benzo (k) fluoranthene	5050		µg/kg wet we	166	6670		76	40-140		
Benzo (a) pyrene	4100		µg/kg wet we	166	6670		62	40-140		
Indeno (1,2,3-cd) pyrene	4480		µg/kg wet we	166	6670		67	40-140		
Dibenzo (a,h) anthracene	4380		µg/kg wet we	166	6670		66	40-140		
Benzo (g,h,i) perylene	4530		µg/kg wet we	166	6670		68	40-140		

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* Reportable Detection Limit BRL = Below Reporting Limit

Page 41 of 62

Extractable Petroleum Hydrocarbons - Quality Control

Analyte(s)	Result	Flag	Units	*RDL	Spike Level	Source Result	%REC	%REC Limits	RPD RPD	RPD Limit
Batch 1003308 - SW846 3545A										
LCS (1003308-BS1)										
Prepared: 09-Feb-10 Analyzed: 10-Feb-10										
Naphthalene (aliphatic fraction)	0.00667		µg/kg wet we		6670		0.0001	0-200		
2-Methylnaphthalene (aliphatic fraction)	0.00667		µg/kg wet we		6670		0.0001	0-200		
<i>Surrogate: 1-Chlorooctadecane</i>	1910		µg/kg wet we		3330		57	40-140		
<i>Surrogate: Ortho-Terphenyl</i>	2190		µg/kg wet we		3330		66	40-140		
<i>Surrogate: 2-Fluorobiphenyl</i>	2080		µg/kg wet we		2670		78	40-140		
Naphthalene Breakthrough	0.00		%					0-5		
2-Methylnaphthalene Breakthrough	0.00		%					0-5		
LCS (1003308-BS2)										
Prepared: 09-Feb-10 Analyzed: 10-Feb-10										
C9-C18 Aliphatic Hydrocarbons	24.1		mg/kg wet we	5.00	40.0		60	40-140		
C19-C36 Aliphatic Hydrocarbons	32.4		mg/kg wet we	5.00	53.3		61	40-140		
C11-C22 Aromatic Hydrocarbons	79.3		mg/kg wet we	5.00	113		70	40-140		
Naphthalene	3580		µg/kg wet we	166	6670		54	40-140		
2-Methylnaphthalene	3780		µg/kg wet we	166	6670		57	40-140		
Acenaphthylene	4200		µg/kg wet we	166	6670		63	40-140		
Acenaphthene	4250		µg/kg wet we	166	6670		64	40-140		
Fluorene	4460		µg/kg wet we	166	6670		67	40-140		
Phenanthrene	4710		µg/kg wet we	166	6670		71	40-140		
Anthracene	4740		µg/kg wet we	166	6670		71	40-140		
Fluoranthene	4990		µg/kg wet we	166	6670		75	40-140		
Pyrene	5060		µg/kg wet we	166	6670		76	40-140		
Benzo (a) anthracene	5030		µg/kg wet we	166	6670		75	40-140		
Chrysene	5170		µg/kg wet we	166	6670		78	40-140		
Benzo (b) fluoranthene	4980		µg/kg wet we	166	6670		75	40-140		
Benzo (k) fluoranthene	4760		µg/kg wet we	166	6670		71	40-140		
Benzo (a) pyrene	4730		µg/kg wet we	166	6670		71	40-140		
Indeno (1,2,3-cd) pyrene	4820		µg/kg wet we	166	6670		72	40-140		
Dibenzo (a,h) anthracene	4730		µg/kg wet we	166	6670		71	40-140		
Benzo (g,h,i) perlylene	5030		µg/kg wet we	166	6670		75	40-140		
Naphthalene (aliphatic fraction)	0.00		µg/kg wet we		6670			0-200		
2-Methylnaphthalene (aliphatic fraction)	0.00		µg/kg wet we		6670			0-200		
<i>Surrogate: 1-Chlorooctadecane</i>	2030		µg/kg wet we		3330		61	40-140		
<i>Surrogate: Ortho-Terphenyl</i>	2360		µg/kg wet we		3330		71	40-140		
<i>Surrogate: 2-Fluorobiphenyl</i>	1870		µg/kg wet we		2670		70	40-140		
Naphthalene Breakthrough	0.00		%					0-5		
2-Methylnaphthalene Breakthrough	0.00		%					0-5		
LCS Dup (1003308-BSD1)										
Prepared: 09-Feb-10 Analyzed: 10-Feb-10										
C9-C18 Aliphatic Hydrocarbons	23.3		mg/kg wet we	5.00	40.0		58	40-140	14	25
C19-C36 Aliphatic Hydrocarbons	33.5		mg/kg wet we	5.00	53.3		63	40-140	4	25
C11-C22 Aromatic Hydrocarbons	76.0		mg/kg wet we	5.00	113		67	40-140	2	25
Naphthalene	3490		µg/kg wet we	166	6670		52	40-140	1	30
2-Methylnaphthalene	3670		µg/kg wet we	166	6670		55	40-140	0.2	30
Acenaphthylene	3850		µg/kg wet we	166	6670		58	40-140	0.9	30
Acenaphthene	4050		µg/kg wet we	166	6670		61	40-140	1	30
Fluorene	4260		µg/kg wet we	166	6670		64	40-140	0.5	30
Phenanthrene	4530		µg/kg wet we	166	6670		68	40-140	2	30
Anthracene	4500		µg/kg wet we	166	6670		67	40-140	3	30
Fluoranthene	4800		µg/kg wet we	166	6670		72	40-140	5	30

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Extractable Petroleum Hydrocarbons - Quality Control

Analyte(s)	Result	Flag	Units	*RDL	Spike Level	Source Result	%REC	%REC Limits	RPD RPD	RPD Limit
Batch 1003308 - SW846 3545A										
LCS Dup (1003308-BSD1)										
Prepared: 09-Feb-10 Analyzed: 10-Feb-10										
Pyrene	4870		µg/kg wet we	166	6670	73	40-140	4	30	
Benzo (a) anthracene	4830		µg/kg wet we	166	6670	72	40-140	6	30	
Chrysene	5020		µg/kg wet we	166	6670	75	40-140	5	30	
Benzo (b) fluoranthene	4140		µg/kg wet we	166	6670	62	40-140	8	30	
Benzo (k) fluoranthene	5130		µg/kg wet we	166	6670	77	40-140	1	30	
Benzo (a) pyrene	4320		µg/kg wet we	166	6670	65	40-140	5	30	
Indeno (1,2,3-cd) pyrene	4580		µg/kg wet we	166	6670	69	40-140	2	30	
Dibenzo (a,h) anthracene	4360		µg/kg wet we	166	6670	65	40-140	0.6	30	
Benzo (g,h,i) perylene	4680		µg/kg wet we	166	6670	70	40-140	3	30	
Naphthalene (aliphatic fraction)	0.00667		µg/kg wet we		6670	0.0001	0-200	0	200	
2-Methylnaphthalene (aliphatic fraction)	0.00667		µg/kg wet we		6670	0.0001	0-200	0	200	
<i>Surrogate: 1-Chlorooctadecane</i>	2130		µg/kg wet we		3330	64	40-140			
<i>Surrogate: Ortho-Terphenyl</i>	2240		µg/kg wet we		3330	67	40-140			
<i>Surrogate: 2-Fluorobiphenyl</i>	2110		µg/kg wet we		2670	79	40-140			
Naphthalene Breakthrough	0.00		%				0-5			
2-Methylnaphthalene Breakthrough	0.00		%				0-5			

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Total Metals by EPA 6000/7000 Series Methods - Quality Control

Analyte(s)	Result	Flag	Units	*RDL	Spike Level	Source Result	%REC	%REC Limits	RPD RPD	RPD Limit
Batch 1003678 - SW846 3050B										
<u>Blank (1003678-BLK1)</u>										
Prepared: 16-Feb-10 Analyzed: 17-Feb-10										
Selenium	BRL		mg/kg wet we	1.49						
Lead	BRL		mg/kg wet we	1.49						
Arsenic	BRL		mg/kg wet we	1.49						
Cadmium	BRL		mg/kg wet we	0.498						
Silver	BRL		mg/kg wet we	1.49						
Chromium	BRL		mg/kg wet we	0.996						
Barium	BRL		mg/kg wet we	0.996						
Duplicate (1003678-DUP1)	Source: SB07646-01									
Prepared: 16-Feb-10 Analyzed: 17-Feb-10										
Selenium	3.23		mg/kg dry dry	1.57		3.17			2	20
Lead	7.82	QR6	mg/kg dry dry	1.57		5.41			36	20
Arsenic	8.29	QR6	mg/kg dry dry	1.57		4.65			56	20
Silver	BRL		mg/kg dry dry	1.57		BRL				20
Chromium	28.4	QR6	mg/kg dry dry	1.04		41.2			37	20
Cadmium	0.345	J	mg/kg dry dry	0.522		0.304			13	20
Barium	70.7		mg/kg dry dry	1.04		83.3			16	20
Matrix Spike (1003678-MS1)	Source: SB07646-02									
Prepared: 16-Feb-10 Analyzed: 17-Feb-10										
Selenium	131		mg/kg dry dry	1.56	130	3.34	98	75-125		
Lead	141		mg/kg dry dry	1.56	130	17.4	95	75-125		
Cadmium	129		mg/kg dry dry	0.520	130	0.273	99	75-125		
Silver	120		mg/kg dry dry	1.56	130	BRL	92	75-125		
Chromium	164		mg/kg dry dry	1.04	130	24.8	107	75-125		
Arsenic	137		mg/kg dry dry	1.56	130	13.2	96	75-125		
Barium	206		mg/kg dry dry	1.04	130	59.6	113	75-125		
Matrix Spike Dup (1003678-MSD1)	Source: SB07646-02									
Prepared: 16-Feb-10 Analyzed: 17-Feb-10										
Lead	151		mg/kg dry dry	1.62	135	17.4	99	75-125	7	20
Selenium	135		mg/kg dry dry	1.62	135	3.34	97	75-125	4	20
Arsenic	143		mg/kg dry dry	1.62	135	13.2	96	75-125	4	20
Silver	125		mg/kg dry dry	1.62	135	BRL	92	75-125	4	20
Cadmium	133		mg/kg dry dry	0.541	135	0.273	98	75-125	3	20
Chromium	173		mg/kg dry dry	1.08	135	24.8	109	75-125	5	20
Barium	210		mg/kg dry dry	1.08	135	59.6	111	75-125	2	20
Post Spike (1003678-PS1)	Source: SB07646-02									
Prepared: 16-Feb-10 Analyzed: 17-Feb-10										
Lead	130		mg/kg dry dry	1.44	120	17.4	94	80-120		
Selenium	122		mg/kg dry dry	1.44	120	3.34	99	80-120		
Arsenic	130		mg/kg dry dry	1.44	120	13.2	97	80-120		
Chromium	145		mg/kg dry dry	0.959	120	24.8	100	80-120		
Silver	114		mg/kg dry dry	1.44	120	BRL	95	80-120		
Cadmium	121		mg/kg dry dry	0.480	120	0.273	101	80-120		
Barium	174		mg/kg dry dry	0.959	120	59.6	96	80-120		
Reference (1003678-SRM1)										
Prepared: 16-Feb-10 Analyzed: 17-Feb-10										
Selenium	101		mg/kg wet we	1.50	97.8		104	80.2-119.8		
Lead	53.8		mg/kg wet we	1.50	53.0		102	79-121.2		

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* Reportable Detection Limit BRL = Below Reporting Limit

Page 44 of 62

Total Metals by EPA 6000/7000 Series Methods - Quality Control

Analyte(s)	Result	Flag	Units	*RDL	Spike Level	Source Result	%REC	%REC Limits	RPD RPD	RPD Limit
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Batch 1003678 - SW846 3050B
Reference (1003678-SRM1)

Prepared: 16-Feb-10 Analyzed: 17-Feb-10

Arsenic	46.1	mg/kg wet we	1.50	45.0		102	78.1-122.3
Cadmium	47.0	mg/kg wet we	0.500	46.3		101	81.4-118.7
Chromium	78.4	mg/kg wet we	1.00	73.3		107	80.6-119.4
Silver	38.2	mg/kg wet we	1.50	38.9		98	66.2-133.5
Barium	223	mg/kg wet we	1.00	220		101	81.2-118.8

Reference (1003678-SRM2)

Prepared: 16-Feb-10 Analyzed: 17-Feb-10

Selenium	103	mg/kg wet we	1.50	100		103	80.2-119.8
Lead	55.5	mg/kg wet we	1.50	54.2		102	79-121.2
Cadmium	49.0	mg/kg wet we	0.500	47.4		103	81.4-118.7
Arsenic	47.1	mg/kg wet we	1.50	46.0		102	78.1-122.3
Chromium	77.8	mg/kg wet we	1.00	75.0		104	80.6-119.4
Silver	38.8	mg/kg wet we	1.50	39.8		97	66.2-133.5
Barium	222	mg/kg wet we	1.00	225		99	81.2-118.8

Batch 1003679 - EPA200/SW7000 Series
Blank (1003679-BLK1)

Prepared: 16-Feb-10 Analyzed: 17-Feb-10

Mercury	BRL	mg/kg wet we	0.0292
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Duplicate (1003679-DUP1) Source: SB07646-01

Prepared: 16-Feb-10 Analyzed: 17-Feb-10

Mercury	BRL	mg/kg dry dry	0.0315	BRL	20
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Reference (1003679-SRM1)

Prepared: 16-Feb-10 Analyzed: 17-Feb-10

Mercury	1.17	mg/kg wet we	0.0600	1.16		100	71.8-128.2
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General Chemistry Parameters - Quality Control

Analyte(s)	Result	Flag	Units	*RDL	Spike Level	Source Result	%REC	%REC Limits	RPD RPD	RPD Limit
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Batch 1003360 - General Preparation
Duplicate (1003360-DUP1) Source: SB07646-01

Prepared: 09-Feb-10 Analyzed: 10-Feb-10

% Solids	94.9	%		95.1	0.2	20
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Batch 1003494 - General Preparation
Duplicate (1003494-DUP1) Source: SB07646-05

Prepared & Analyzed: 11-Feb-10

% Solids	84.2	%		83.9	0.4	20
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Extractable Petroleum Hydrocarbons - CCV Evaluation Report

Analyte	Average RF	CCRF	% D	Limit
Batch S001128				
Calibration Check (S001128-CCV1)				
C9-C18 Aliphatic Hydrocarbons	1.315332E+11	1.113479E+08	-12.0	25.00
C19-C36 Aliphatic Hydrocarbons	1.475897E+11	1.030764E+08	-16.4	25.00
C11-C22 Aromatic Hydrocarbons	16239.01	16.6026	-6.5	25.00
Naphthalene	7.391994	7.733857	4.6	20.00
2-Methylnaphthalene	4.974413	5.049086	1.5	20.00
Acenaphthylene	6.795248	6.762926	-0.5	20.00
Acenaphthene	4.673663	4.713608	0.9	20.00
Fluorene	5.06442	5.014365	-1.0	20.00
Phenanthrene	6.590575	6.363782	-3.4	20.00
Anthracene	7.028505	6.846612	-2.6	20.00
Fluoranthene	6.813848	6.560886	-3.7	20.00
Pyrene	6.922813	6.730045	-2.8	20.00
Benzo (a) anthracene	5.79222	5.287424	-8.7	20.00
Chrysene	5.829036	5.38887	-7.6	20.00
Benzo (b) fluoranthene	5.318473	4.826672	-9.2	20.00
Benzo (k) fluoranthene	5.556533	5.101175	-8.2	20.00
Benzo (a) pyrene	5.153106	4.820567	-6.5	20.00
Indeno (1,2,3-cd) pyrene	5.256555	5.380074	2.3	20.00
Dibenzo (a,h) anthracene	4.4385	4.355189	-1.9	20.00
Benzo (g,h,i) perylene	4.493644	4.846821	7.9	20.00
5-alpha-Androstane	6216.83	1	-100	
5-alpha-Androstane	6216830	1	-100	

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Page 46 of 62

Extractable Petroleum Hydrocarbons - CCV Evaluation Report

Analyte	Average RF	CCRF	% D	Limit
Batch S001128				
Calibration Check (S001128-CCV2)				
C9-C18 Aliphatic Hydrocarbons	1.315332E+11	1.220377E+08	-3.7	25.00
C19-C36 Aliphatic Hydrocarbons	1.475897E+11	1.207155E+08	-0.2	25.00
C11-C22 Aromatic Hydrocarbons	16239.01	18.41614	3.5	25.00
Naphthalene	7.391994	7.355611	-0.5	20.00
2-Methylnaphthalene	4.974413	4.81822	-3.1	20.00
Acenaphthylene	6.795248	6.578413	-3.2	20.00
Acenaphthene	4.673663	4.552617	-2.6	20.00
Fluorene	5.06442	4.853546	-4.2	20.00
Phenanthrene	6.590575	6.192215	-6.0	20.00
Anthracene	7.028505	6.645044	-5.5	20.00
Fluoranthene	6.813848	6.635042	-2.6	20.00
Pyrene	6.922813	6.70139	-3.2	20.00
Benzo (a) anthracene	5.79222	5.480197	-5.4	20.00
Chrysene	5.829036	5.428097	-6.9	20.00
Benzo (b) fluoranthene	5.318473	5.267079	-1.0	20.00
Benzo (k) fluoranthene	5.556533	4.840871	-12.9	20.00
Benzo (a) pyrene	5.153106	4.930157	-4.3	20.00
Indeno (1,2,3-cd) pyrene	5.256555	6.0602	15.3	20.00
Dibenzo (a,h) anthracene	4.4385	4.895242	10.3	20.00
Benzo (g,h,i) perylene	4.493644	5.332918	18.7	20.00
5-alpha-Androstane	6216.83	1	-100	
5-alpha-Androstane	6216830	1	-100	

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Page 47 of 62

Extractable Petroleum Hydrocarbons - CCV Evaluation Report

Analyte	Average			
	RF	CCRF	% D	Limit
Batch S001232				
Calibration Check (S001232-CCV1)				
C9-C18 Aliphatic Hydrocarbons	1.315332E+11	1.331538E+08	5.2	25.00
C19-C36 Aliphatic Hydrocarbons	1.475897E+11	1.222157E+08	1.1	25.00
C11-C22 Aromatic Hydrocarbons	16239.01	16.72177	-5.9	25.00
Naphthalene	7.391994	6.728894	-9.0	20.00
2-Methylnaphthalene	4.974413	4.425962	-11.0	20.00
Acenaphthylene	6.795248	5.948086	-12.5	20.00
Acenaphthene	4.673663	4.216909	-9.8	20.00
Fluorene	5.06442	4.6576	-8.0	20.00
Phenanthrene	6.590575	6.057242	-8.1	20.00
Anthracene	7.028505	6.521948	-7.2	20.00
Fluoranthene	6.813848	6.498364	-4.6	20.00
Pyrene	6.922813	6.585123	-4.9	20.00
Benzo (a) anthracene	5.79222	5.521693	-4.7	20.00
Chrysene	5.829036	5.395116	-7.4	20.00
Benzo (b) fluoranthene	5.318473	5.181404	-2.6	20.00
Benzo (k) fluoranthene	5.556533	5.262996	-5.3	20.00
Benzo (a) pyrene	5.153106	5.140578	-0.2	20.00
Indeno (1,2,3-cd) pyrene	5.256555	5.65948	7.7	20.00
Dibenzo (a,h) anthracene	4.4385	4.580344	3.2	20.00
Benzo (g,h,i) perylene	4.493644	4.931009	9.7	20.00
5-alpha-Androstane	6216.83	1	-100	
5-alpha-Androstane	6216830	1	-100	

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Page 48 of 62

Extractable Petroleum Hydrocarbons - CCV Evaluation Report

Analyte	Average RF	CCRF	% D	Limit
Semivolatile Organic Compounds by GC - CCV Evaluation Report				
Analyte	Average RF	CCRF	% D	Limit
Batch S001218				
Calibration Check (S001218-CCV1)				
Aroclor-1016 (1)	0.0207572	2.052588E-02	-1.1	15.00
Aroclor-1016 (2)	4.259077E-02	0.0415748	-2.4	15.00
Aroclor-1016 (3)	2.706428E-02	2.735312E-02	1.1	15.00
Aroclor-1016 (4)	2.962569E-02	3.101151E-02	4.7	15.00
Aroclor-1016 (5)	3.395221E-02	3.692308E-02	8.8	15.00
Aroclor-1016 (1) [2C]	0.023112	2.209853E-02	-4.4	15.00
Aroclor-1016 (2) [2C]	0.0438012	4.392856E-02	0.3	15.00
Aroclor-1016 (3) [2C]	2.871976E-02	2.993925E-02	4.2	15.00
Aroclor-1016 (4) [2C]	3.625411E-02	3.881059E-02	7.1	15.00
Aroclor-1016 (5) [2C]	0.0377981	4.067478E-02	7.6	15.00
Aroclor-1260 (1)	3.145074E-02	0.0316172	0.5	15.00
Aroclor-1260 (2)	8.923124E-02	9.112053E-02	2.1	15.00
Aroclor-1260 (3)	5.233721E-02	5.526348E-02	5.6	15.00
Aroclor-1260 (4)	6.471484E-02	6.878256E-02	6.3	15.00
Aroclor-1260 (5)	3.659074E-02	0.0392974	7.4	15.00
Aroclor-1260 (1) [2C]	2.801148E-02	3.083518E-02	10.1	15.00
Aroclor-1260 (2) [2C]	8.804485E-02	9.017505E-02	2.4	15.00
Aroclor-1260 (3) [2C]	5.771527E-02	6.154373E-02	6.6	15.00
Aroclor-1260 (4) [2C]	0.0651403	6.636689E-02	1.9	15.00
Aroclor-1260 (5) [2C]	3.618382E-02	3.890345E-02	7.5	15.00
Decachlorobiphenyl (Sr)	0.6552589	0.8740157	33.4	
Decachlorobiphenyl (Sr) [2C]	0.7779835	1.066774	37.1	
4,4-DB-Octafluorobiphenyl (Sr)	1.151694	1.38825	20.5	
4,4-DB-Octafluorobiphenyl (Sr) [2C]	1.11494	1.287447	15.5	
2,4,5,6-TC-M-Xylene (IS)	1	1	0.0	
2,4,5,6-TC-M-Xylene (IS) [2C]	1	1	0.0	

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* Reportable Detection Limit BRL = Below Reporting Limit

Page 49 of 62

Semivolatile Organic Compounds by GC - CCV Evaluation Report

Analyte	Average		% D	Limit		
	RF	CCRF				
Batch S001218						
Calibration Check (S001218-CCV2)						
Aroclor-1016 (1)	0.0207572	2.057093E-02	-0.9	15.00		
Aroclor-1016 (2)	4.259077E-02	4.172068E-02	-2.0	15.00		
Aroclor-1016 (3)	2.706428E-02	0.0273188	0.9	15.00		
Aroclor-1016 (4)	2.962569E-02	3.099588E-02	4.6	15.00		
Aroclor-1016 (5)	3.395221E-02	3.688863E-02	8.6	15.00		
Aroclor-1016 (1) [2C]	0.023112	2.560156E-02	10.8	15.00		
Aroclor-1016 (2) [2C]	0.0438012	4.373143E-02	-0.2	15.00		
Aroclor-1016 (3) [2C]	2.871976E-02	3.013287E-02	4.9	15.00		
Aroclor-1016 (4) [2C]	3.625411E-02	3.860127E-02	6.5	15.00		
Aroclor-1016 (5) [2C]	0.0377981	4.026187E-02	6.5	15.00		
Aroclor-1260 (1)	3.145074E-02	3.255156E-02	3.5	15.00		
Aroclor-1260 (2)	8.923124E-02	8.964054E-02	0.5	15.00		
Aroclor-1260 (3)	5.233721E-02	5.232764E-02	-0.02	15.00		
Aroclor-1260 (4)	6.471484E-02	6.689452E-02	3.4	15.00		
Aroclor-1260 (5)	3.659074E-02	3.538008E-02	-3.3	15.00		
Aroclor-1260 (1) [2C]	2.801148E-02	3.059245E-02	9.2	15.00		
Aroclor-1260 (2) [2C]	8.804485E-02	9.320512E-02	5.9	15.00		
Aroclor-1260 (3) [2C]	5.771527E-02	6.095396E-02	5.6	15.00		
Aroclor-1260 (4) [2C]	0.0651403	0.064334	-1.2	15.00		
Aroclor-1260 (5) [2C]	3.618382E-02	3.845003E-02	6.3	15.00		
Decachlorobiphenyl (Sr)	0.6552589	0.8503241	29.8			
Decachlorobiphenyl (Sr) [2C]	0.7779835	1.068714	37.4			
4,4-DB-Octafluorobiphenyl (Sr)	1.151694	1.377136	19.6			
4,4-DB-Octafluorobiphenyl (Sr) [2C]	1.11494	1.288655	15.6			
2,4,5,6-TC-M-Xylene (IS)	1	1	0.0			
2,4,5,6-TC-M-Xylene (IS) [2C]	1	1	0.0			

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* Reportable Detection Limit BRL = Below Reporting Limit

Page 50 of 62

Semivolatile Organic Compounds by GC - CCV Evaluation Report

Analyte	Average RF	CCRF	% D	Limit
Batch S001226				
Calibration Check (S001226-CCV1)				
alpha-BHC	1.354213	1.473592	8.8	15.00
alpha-BHC [2C]	1.429927	1.459429	2.1	15.00
beta-BHC	0.6185299	0.637042	3.0	15.00
beta-BHC [2C]	0.6487855	0.6486547	-0.02	15.00
delta-BHC	1.256979	1.366693	8.7	15.00
delta-BHC [2C]	1.340415	1.379119	2.9	15.00
gamma-BHC (Lindane)	1.254347	1.365577	8.9	15.00
gamma-BHC (Lindane) [2C]	1.324069	1.367584	3.3	15.00
Heptachlor	1.219925	1.329392	9.0	15.00
Heptachlor [2C]	1.30846	1.298175	-0.8	15.00
Aldrin	1.111679	1.150616	3.5	15.00
Aldrin [2C]	1.165945	1.139402	-2.3	15.00
Heptachlor epoxide	1.111684	1.156817	4.1	15.00
Heptachlor epoxide [2C]	1.159289	1.131393	-2.4	15.00
Endosulfan I	1.032721	1.064296	3.1	15.00
Endosulfan I [2C]	1.068983	1.05303	-1.5	15.00
Dieldrin	1.089873	1.127344	3.4	15.00
Dieldrin [2C]	1.13823	1.106099	-2.8	15.00
4,4'-DDE (p,p')	1.008468	1.033489	2.5	15.00
4,4'-DDE (p,p') [2C]	1.065937	1.030679	-3.3	15.00
Endrin	1.044551	0.9775972	-6.4	15.00
Endrin [2C]	1.071196	0.9970463	-6.9	15.00
Endosulfan II	1.01201	1.006244	-0.6	15.00
Endosulfan II [2C]	1.011755	1.000375	-1.1	15.00
4,4'-DDD (p,p')	0.9018101	0.8929669	-1.0	15.00
4,4'-DDD (p,p') [2C]	0.916703	0.8732762	-4.7	15.00
Endosulfan sulfate	1.02572	1.001832	-2.3	15.00
Endosulfan sulfate [2C]	1.042881	1.00526	-3.6	15.00
4,4'-DDT (p,p')	0.8584947	0.9013883	5.0	15.00
4,4'-DDT (p,p') [2C]	0.9306792	0.8960633	-3.7	15.00
Methoxychlor	0.5815592	0.5688567	-2.2	15.00
Methoxychlor [2C]	0.6225198	0.5689264	-8.6	15.00
Endrin ketone	1.187463	1.18847	0.08	15.00
Endrin ketone [2C]	1.211979	1.235227	1.9	15.00
Endrin aldehyde	0.7322403	0.7229083	-1.3	15.00
Endrin aldehyde [2C]	0.7621807	0.7282684	-4.4	15.00
alpha-Chlordane	1.103173	1.126292	2.1	15.00
alpha-Chlordane [2C]	1.134963	1.100513	-3.0	15.00
gamma-Chlordane	1.128295	1.13637	0.7	15.00
gamma-Chlordane [2C]	1.164808	1.125707	-3.4	15.00
Alachlor	0.1910912	0.1894966	-0.8	15.00
Alachlor [2C]	0.1973142	0.1924935	-2.4	15.00
4,4-DB-Octafluorobiphenyl (Sr)	1.197246	1.051097	-12.2	
4,4-DB-Octafluorobiphenyl (Sr) [2C]	1.135297	0.9755626	-14.1	
Decachlorobiphenyl (Sr)	0.8732022	0.6834688	-21.7	
Decachlorobiphenyl (Sr) [2C]	0.7484322	0.7403041	-1.1	
2,4,5,6-TC-M-Xylene (IS)	1	1	0.0	
2,4,5,6-TC-M-Xylene (IS) [2C]	1	1	0.0	

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Semivolatile Organic Compounds by GC - CCV Evaluation Report

Analyte	Average RF	CCRF	% D	Limit
Batch S001226				
Calibration Check (S001226-CCV2)				
alpha-BHC	1.354213	1.464039	8.1	15.00
alpha-BHC [2C]	1.429927	1.460343	2.1	15.00
beta-BHC	0.6185299	0.661563	7.0	15.00
beta-BHC [2C]	0.6487855	0.6629094	2.2	15.00
delta-BHC	1.256979	1.417664	12.8	15.00
delta-BHC [2C]	1.340415	1.418392	5.8	15.00
gamma-BHC (Lindane)	1.254347	1.367089	9.0	15.00
gamma-BHC (Lindane) [2C]	1.324069	1.373638	3.7	15.00
Heptachlor	1.219925	1.324179	8.5	15.00
Heptachlor [2C]	1.30846	1.298844	-0.7	15.00
Aldrin	1.111679	1.147396	3.2	15.00
Aldrin [2C]	1.165945	1.144198	-1.9	15.00
Heptachlor epoxide	1.111684	1.165113	4.8	15.00
Heptachlor epoxide [2C]	1.159289	1.147573	-1.0	15.00
Endosulfan I	1.032721	1.086031	5.2	15.00
Endosulfan I [2C]	1.068983	1.072825	0.4	15.00
Dieldrin	1.089873	1.146231	5.2	15.00
Dieldrin [2C]	1.13823	1.131491	-0.6	15.00
4,4'-DDE (p,p')	1.008468	1.051762	4.3	15.00
4,4'-DDE (p,p') [2C]	1.065937	1.055433	-1.0	15.00
Endrin	1.044551	0.9977642	-4.5	15.00
Endrin [2C]	1.071196	1.024665	-4.3	15.00
Endosulfan II	1.01201	1.036596	2.4	15.00
Endosulfan II [2C]	1.011755	1.030903	1.9	15.00
4,4'-DDD (p,p')	0.9018101	0.9233468	2.4	15.00
4,4'-DDD (p,p') [2C]	0.916703	0.9028701	-1.5	15.00
Endosulfan sulfate	1.02572	1.042101	1.6	15.00
Endosulfan sulfate [2C]	1.042881	1.033933	-0.9	15.00
4,4'-DDT (p,p')	0.8584947	0.8906557	3.7	15.00
4,4'-DDT (p,p') [2C]	0.9306792	0.8913002	-4.2	15.00
Methoxychlor	0.5815592	0.5662269	-2.6	15.00
Methoxychlor [2C]	0.6225198	0.5657024	-9.1	15.00
Endrin ketone	1.187463	1.226449	3.3	15.00
Endrin ketone [2C]	1.211979	1.259226	3.9	15.00
Endrin aldehyde	0.7322403	0.7317952	-0.06	15.00
Endrin aldehyde [2C]	0.7621807	0.7331306	-3.8	15.00
alpha-Chlordane	1.103173	1.149199	4.2	15.00
alpha-Chlordane [2C]	1.134963	1.128814	-0.5	15.00
gamma-Chlordane	1.128295	1.160638	2.9	15.00
gamma-Chlordane [2C]	1.164808	1.148899	-1.4	15.00
Alachlor	0.1910912	0.1895189	-0.8	15.00
Alachlor [2C]	0.1973142	0.1938261	-1.8	15.00
4,4-DB-Octafluorobiphenyl (Sr)	1.197246	1.055916	-11.8	
4,4-DB-Octafluorobiphenyl (Sr) [2C]	1.135297	0.9701906	-14.5	
Decachlorobiphenyl (Sr)	0.8732022	0.6932383	-20.6	
Decachlorobiphenyl (Sr) [2C]	0.7484322	0.7290093	-2.6	
2,4,5,6-TC-M-Xylene (IS)	1	1	0.0	
2,4,5,6-TC-M-Xylene (IS) [2C]	1	1	0.0	

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Semivolatile Organic Compounds by GC - CCV Evaluation Report

Analyte	Average			
	RF	CCRF	% D	Limit
Batch S001240				
Calibration Check (S001240-CCV1)				
alpha-BHC	1.354213	1.495149	10.4	15.00
alpha-BHC [2C]	1.429927	1.499174	4.8	15.00
beta-BHC	0.6185299	0.6495585	5.0	15.00
beta-BHC [2C]	0.6487855	0.6602853	1.8	15.00
delta-BHC	1.256979	1.439946	14.6	15.00
delta-BHC [2C]	1.340415	1.45591	8.6	15.00
gamma-BHC (Lindane)	1.254347	1.379432	10.0	15.00
gamma-BHC (Lindane) [2C]	1.324069	1.403734	6.0	15.00
Heptachlor	1.219925	1.341284	9.9	15.00
Heptachlor [2C]	1.30846	1.329195	1.6	15.00
Aldrin	1.111679	1.151911	3.6	15.00
Aldrin [2C]	1.165945	1.168648	0.2	15.00
Heptachlor epoxide	1.111684	1.152062	3.6	15.00
Heptachlor epoxide [2C]	1.159289	1.170648	1.0	15.00
Endosulfan I	1.032721	1.072929	3.9	15.00
Endosulfan I [2C]	1.068983	1.095423	2.5	15.00
Dieldrin	1.089873	1.146524	5.2	15.00
Dieldrin [2C]	1.13823	1.165194	2.4	15.00
4,4'-DDE (p,p')	1.008468	1.060776	5.2	15.00
4,4'-DDE (p,p') [2C]	1.065937	1.090779	2.3	15.00
Endrin	1.044551	1.006141	-3.7	15.00
Endrin [2C]	1.071196	1.055156	-1.5	15.00
Endosulfan II	1.01201	1.029581	1.7	15.00
Endosulfan II [2C]	1.011755	1.067831	5.5	15.00
4,4'-DDD (p,p')	0.9018101	0.9261853	2.7	15.00
4,4'-DDD (p,p') [2C]	0.916703	0.9279584	1.2	15.00
Endosulfan sulfate	1.02572	1.035519	1.0	15.00
Endosulfan sulfate [2C]	1.042881	1.069323	2.5	15.00
4,4'-DDT (p,p')	0.8584947	0.9386503	9.3	15.00
4,4'-DDT (p,p') [2C]	0.9306792	0.9587365	3.0	15.00
Methoxychlor	0.5815592	0.5764139	-0.9	15.00
Methoxychlor [2C]	0.6225198	0.5805007	-6.7	15.00
Endrin ketone	1.187463	1.215513	2.4	15.00
Endrin ketone [2C]	1.211979	1.306748	7.8	15.00
Endrin aldehyde	0.7322403	0.7250585	-1.0	15.00
Endrin aldehyde [2C]	0.7621807	0.7625478	0.05	15.00
alpha-Chlordane	1.103173	1.133366	2.7	15.00
alpha-Chlordane [2C]	1.134963	1.149225	1.3	15.00
gamma-Chlordane	1.128295	1.151463	2.1	15.00
gamma-Chlordane [2C]	1.164808	1.171145	0.5	15.00
Alachlor	0.1910912	0.1886668	-1.3	15.00
Alachlor [2C]	0.1973142	0.1966734	-0.3	15.00
4,4-DB-Octafluorobiphenyl (Sr)	1.197246	1.054966	-11.9	
4,4-DB-Octafluorobiphenyl (Sr) [2C]	1.135297	0.9832094	-13.4	
Decachlorobiphenyl (Sr)	0.8732022	0.6938788	-20.5	
Decachlorobiphenyl (Sr) [2C]	0.7484322	0.751209	0.4	
2,4,5,6-TC-M-Xylene (IS)	1	1	0.0	
2,4,5,6-TC-M-Xylene (IS) [2C]	1	1	0.0	

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Semivolatile Organic Compounds by GC - CCV Evaluation Report

Analyte	Average RF	CCRF	% D	Limit
Batch S001240				
Calibration Check (S001240-CCV2)				
alpha-BHC	1.354213	1.50565	11.2	15.00
alpha-BHC [2C]	1.429927	1.499442	4.9	15.00
beta-BHC	0.6185299	0.644511	4.2	15.00
beta-BHC [2C]	0.6487855	0.6567673	1.2	15.00
delta-BHC	1.256979	1.433522	14.0	15.00
delta-BHC [2C]	1.340415	1.447892	8.0	15.00
gamma-BHC (Lindane)	1.254347	1.384867	10.4	15.00
gamma-BHC (Lindane) [2C]	1.324069	1.403573	6.0	15.00
Heptachlor	1.219925	1.336135	9.5	15.00
Heptachlor [2C]	1.30846	1.304203	-0.3	15.00
Aldrin	1.111679	1.158056	4.2	15.00
Aldrin [2C]	1.165945	1.169907	0.3	15.00
Heptachlor epoxide	1.111684	1.156565	4.0	15.00
Heptachlor epoxide [2C]	1.159289	1.168183	0.8	15.00
Endosulfan I	1.032721	1.076209	4.2	15.00
Endosulfan I [2C]	1.068983	1.091449	2.1	15.00
Dieldrin	1.089873	1.150888	5.6	15.00
Dieldrin [2C]	1.13823	1.159447	1.9	15.00
4,4'-DDE (p,p')	1.008468	1.06067	5.2	15.00
4,4'-DDE (p,p') [2C]	1.065937	1.087592	2.0	15.00
Endrin	1.044551	0.998079	-4.4	15.00
Endrin [2C]	1.071196	1.006355	-6.1	15.00
Endosulfan II	1.01201	1.030063	1.8	15.00
Endosulfan II [2C]	1.011755	1.06397	5.2	15.00
4,4'-DDD (p,p')	0.9018101	0.9307908	3.2	15.00
4,4'-DDD (p,p') [2C]	0.916703	0.9369218	2.2	15.00
Endosulfan sulfate	1.02572	1.027288	0.2	15.00
Endosulfan sulfate [2C]	1.042881	1.061635	1.8	15.00
4,4'-DDT (p,p')	0.8584947	0.9128246	6.3	15.00
4,4'-DDT (p,p') [2C]	0.9306792	0.9037479	-2.9	15.00
Methoxychlor	0.5815592	0.5630961	-3.2	15.00
Methoxychlor [2C]	0.6225198	0.5579875	-10.4	15.00
Endrin ketone	1.187463	1.218451	2.6	15.00
Endrin ketone [2C]	1.211979	1.313155	8.3	15.00
Endrin aldehyde	0.7322403	0.7243439	-1.1	15.00
Endrin aldehyde [2C]	0.7621807	0.7577907	-0.6	15.00
alpha-Chlordane	1.103173	1.134858	2.9	15.00
alpha-Chlordane [2C]	1.134963	1.144397	0.8	15.00
gamma-Chlordane	1.128295	1.152864	2.2	15.00
gamma-Chlordane [2C]	1.164808	1.165078	0.02	15.00
Alachlor	0.1910912	0.187324	-2.0	15.00
Alachlor [2C]	0.1973142	0.1935299	-1.9	15.00
4,4-DB-Octafluorobiphenyl (Sr)	1.197246	1.051651	-12.2	
4,4-DB-Octafluorobiphenyl (Sr) [2C]	1.135297	0.9819886	-13.5	
Decachlorobiphenyl (Sr)	0.8732022	0.6904724	-20.9	
Decachlorobiphenyl (Sr) [2C]	0.7484322	0.7542957	0.8	
2,4,5,6-TC-M-Xylene (IS)	1	1	0.0	
2,4,5,6-TC-M-Xylene (IS) [2C]	1	1	0.0	

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Semivolatile Organic Compounds by GC - CCV Evaluation Report

Analyte	Average RF	CCRF	% D	Limit
Volatile Organic Compounds - CCV Evaluation Report				
Analyte	Average RF	CCRF	% D	Limit
Batch S001075				
Calibration Check (S001075-CCV1)				
1,1,2-Trichlorotrifluoroethane (Freon 113)	0.1600352	0.1598724	-0.1	30.00
Acetone	2.451616E-02	1.953307E-02	#	30.00
Acrylonitrile	5.890314E-02	5.450638E-02	-7.5	30.00
Benzene	0.762964	0.6226529	-18.4	30.00
Bromobenzene	0.6965025	0.6473044	-7.1	30.00
Bromoform	0.1216779	0.1116314	-8.3	30.00
Bromochloromethane	0.2424237	0.217463	-10.3	30.00
Bromodichloromethane	0.2549682	0.2370985	-7.0	30.00
Bromomethane	0.1749189	0.1396411	-20.2	30.00
2-Butanone (MEK)	0.0498689	3.450777E-02	-30.8	#
n-Butylbenzene	1.403455	1.158788	#	30.00
sec-Butylbenzene	2.487899	2.114966	-15.0	30.00
tert-Butylbenzene	1.757354	1.502022	-14.5	30.00
Carbon disulfide	0.576575	0.5110409	-11.4	30.00
Carbon tetrachloride	0.2332191	0.2070272	-11.2	30.00
Chlorobenzene	1.589285	1.471087	-7.4	30.00
Chloroethane	0.1743026	0.1360332	-22.0	30.00
Chloroform	0.4360809	0.3639125	-16.5	20.00
Chloromethane	0.3149665	0.2589344	-17.8	30.00
2-Chlorotoluene	1.434383	1.381924	-3.7	30.00
4-Chlorotoluene	1.597771	1.3586	-15.0	30.00
1,2-Dibromo-3-chloropropane	0.0358599	3.753054E-02	#	30.00
Dibromochloromethane	0.1781639	0.1440443	-19.2	30.00
1,2-Dibromoethane (EDB)	0.1350884	0.1265285	-6.3	30.00
Dibromomethane	0.1140715	9.997362E-02	-12.4	30.00
1,2-Dichlorobenzene	1.156533	1.07943	-6.7	30.00
1,3-Dichlorobenzene	1.284268	1.197508	-6.8	30.00
1,4-Dichlorobenzene	1.261933	1.133112	-10.2	30.00
Dichlorodifluoromethane (Freon12)	0.1595001	0.1491651	-6.5	30.00
1,1-Dichloroethane	0.4254616	0.3460282	-18.7	30.00
1,2-Dichloroethane	0.2563612	0.2196355	-14.3	30.00
1,1-Dichloroethene	0.192782	0.1625687	-15.7	20.00
cis-1,2-Dichloroethene	0.2327913	0.2052427	-11.8	30.00
trans-1,2-Dichloroethene	0.2358339	0.1944772	-17.5	30.00
1,2-Dichloropropane	0.1926829	0.1733148	-10.1	20.00
1,3-Dichloropropane	0.2428504	0.2150771	-11.4	30.00
2,2-Dichloropropane	0.190988	2.901834E-02	-84.8	#
1,1-Dichloropropene	0.2034338	0.1745756	-14.2	30.00
cis-1,3-Dichloropropene	0.2169954	0.1339383	-38.3	#
trans-1,3-Dichloropropene	0.1588988	9.811148E-02	#	30.00
Ethylbenzene	2.181053	1.911848	-12.3	20.00
Hexachlorobutadiene	0.4271858	0.3291817	-22.9	30.00
2-Hexanone (MBK)	5.991727E-02	4.397365E-02	#	30.00
Isopropylbenzene	2.351111	1.693398	-28.0	30.00
4-Isopropyltoluene	1.890846	1.736344	-8.2	30.00
Methyl tert-butyl ether	0.4401884	0.3898079	-11.4	30.00
4-Methyl-2-pentanone (MIBK)	1.440571E-02	9.562863E-03	#	30.00

This laboratory report is not valid without an authorized signature on the cover page.

Volatile Organic Compounds - CCV Evaluation Report

Analyte	Average RF	CCRF	% D	Limit	
Batch S001075					
Calibration Check (S001075-CCV1)					
Methylene chloride	0.2715243	0.2234374	-17.7	30.00	
Naphthalene	0.3562142	0.1807678	#	30.00	
n-Propylbenzene	2.540817	1.960127	-22.9	30.00	
Styrene	1.420791	4.469043E-02	-96.9	#	30.00
1,1,1,2-Tetrachloroethane	0.5176359	0.4928452	-4.8	30.00	
1,1,2,2-Tetrachloroethane	0.4306713	0.408738	-5.1	30.00	
Tetrachloroethene	0.1833423	0.1534325	-16.3	30.00	
Toluene	0.5117046	0.4212703	-17.7	20.00	
1,2,3-Trichlorobenzene	0.2634172	0.2014225	#	30.00	
1,2,4-Trichlorobenzene	0.3192399	0.23476	#	30.00	
1,3,5-Trichlorobenzene	0.6091959	0.6004887	#	30.00	
1,1,1-Trichloroethane	0.2734592	0.2372676	-13.2	30.00	
1,1,2-Trichloroethane	0.1170677	0.1076549	-8.0	30.00	
Trichloroethene	0.197151	0.1722673	-12.6	30.00	
Trichlorofluoromethane (Freon 11)	0.285709	0.286013	0.1	30.00	
1,2,3-Trichloropropane	0.2701839	0.2985342	10.5	30.00	
1,2,4-Trimethylbenzene	1.938419	1.586075	-18.2	30.00	
1,3,5-Trimethylbenzene	1.900648	1.543668	-18.8	30.00	
Vinyl chloride	0.2517447	0.2194609	-12.8	20.00	
m,p-Xylene	0.9341284	0.8170411	-12.5	30.00	
o-Xylene	0.9982344	0.8323185	-16.6	30.00	
Tetrahydrofuran	3.270702E-02	2.482853E-02	-24.1	30.00	
Ethyl ether	0.1088134	9.388287E-02	-13.7	30.00	
Tert-amyl methyl ether	0.1686556	0.14418	-14.5	30.00	
Ethyl tert-butyl ether	0.4755358	0.386103	-18.8	30.00	
Di-isopropyl ether	0.592949	0.4812855	-18.8	30.00	
Tert-Butanol / butyl alcohol	1.335137E-02	1.186726E-02	-11.1	30.00	
trans-1,4-Dichloro-2-butene	5.540871E-02	2.582476E-02	#	30.00	
1,4-Dioxane	1.083779E-03	6.342913E-04	-41.5	#	30.00
Ethanol	2.183203E-03	1.893175E-03	#	30.00	
4-Bromofluorobenzene	0.8329889	0.8282626	-0.6	30.00	
Toluene-d8	0.9675033	0.9066913	-6.3	30.00	
1,2-Dichloroethane-d4	0.2265428	0.231076	2.0	30.00	
Dibromofluoromethane	0.2884184	0.2841082	-1.5	30.00	
Fluorobenzene	1	1	0.0	30.00	
Chlorobenzene-d5	1	1	0.0	30.00	
1,4-Dichlorobenzene-d4	1	1	0.0	30.00	

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Volatile Organic Compounds - CCV Evaluation Report

Analyte	Average			
	RF	CCRF	% D	Limit
Batch S001113				
Calibration Check (S001113-CCV1)				
Benzene	294951.3	340636.8	15.5	25.00
Ethylbenzene	128035.4	153031.8	19.5	25.00
Methyl tert-butyl ether	164997.1	185365.8	12.3	25.00
Naphthalene	120006.2	135357.6	12.8	25.00
Toluene	183154.7	215778.2	17.8	25.00
m,p-Xylene	141771.6	168669.8	19.0	25.00
o-Xylene	117212.7	139137.6	18.7	25.00
2-Methylpentane	55335.88	67047.16	21.2	25.00
n-Pentane	44513.02	54184.98	21.7	25.00
1,2,4-Trimethylbenzene	120458.4	142212.5	18.1	25.00
2,2,4-Trimethylpentane	56249.57	67887.18	20.7	25.00
n-Butylcyclohexane	27384.43	33777.9	23.3	25.00
n-Decane	22362.01	26947.9	20.5	25.00
2,5-Dibromotoluene (FID)	12939.71	27341.62	111	
2,5-Dibromotoluene (PID)	123035.3	269070.4	119	

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* Reportable Detection Limit BRL = Below Reporting Limit

Page 57 of 62

Semivolatile Organic Compounds by GC - Pesticide Breakdown Report

Analyte	Column	% Breakdown	Limit
Batch S001226			
Performance Mix (S001226-PEM1)			
4,4'-DDT (p,p')	1	2.0	15.0
Endrin	1	4.7	15.0
4,4'-DDT (p,p')	2	1.8	15.0
Endrin	2	5.1	15.0
Performance Mix (S001226-PEM2)			
4,4'-DDT (p,p')	1	3.1	15.0
Endrin	1	5.5	15.0
4,4'-DDT (p,p')	2	2.6	15.0
Endrin	2	5.4	15.0
Batch S001240			
Performance Mix (S001240-PEM1)			
4,4'-DDT (p,p')	1	2.1	15.0
Endrin	1	4.4	15.0
4,4'-DDT (p,p')	2	1.4	15.0
Endrin	2	4.0	15.0
Performance Mix (S001240-PEM2)			
4,4'-DDT (p,p')	1	2.8	15.0
Endrin	1	5.1	15.0
4,4'-DDT (p,p')	2	2.5	15.0
Endrin	2	5.4	15.0

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* Reportable Detection Limit BRL = Below Reporting Limit

Page 58 of 62

Notes and Definitions

CAL1	Analyte quantified by quadratic equation type calibration.
CAL2	Analyte percent drift/percent difference is greater than 30%, data is accepted due to all CCC analytes passing within the 20% Drift/Difference criteria
E	The concentration indicated for this analyte is an estimated value. This value is considered an estimate (CLP E-flag).
QM7	The spike recovery was outside acceptance limits for the MS and/or MSD. The batch was accepted based on acceptable LCS recovery.
QM9	The spike recovery for this QC sample is outside the established control limits. The sample results for the QC batch were accepted based on LCS/LCSD or SRM recoveries within the control limits.
QR2	The RPD result exceeded the QC control limits; however, both percent recoveries were acceptable. Sample results for the QC batch were accepted based on percent recoveries and completeness of QC data.
QR5	RPD out of acceptance range.
QR6	The RPD exceeded the QC control limits; however precision is demonstrated with acceptable RPD values for MS/MSD.
BRL	Below Reporting Limit - Analyte NOT DETECTED at or above the reporting limit
dry	Sample results reported on a dry weight basis
NR	Not Reported
RPD	Relative Percent Difference
J	Detected but below the Reporting Limit; therefore, result is an estimated concentration (CLP J-Flag).

A plus sign (+) in the Method Reference column indicates the method is not accredited by NELAC.

A Matrix Spike and Matrix Spike Duplicate (MS/MSD) for MADEP EPH CAM may not have been analyzed with the samples in this work order. According to the method these spikes are performed only when requested by the client. If requested the spike recoveries are included in the batch QC data.

Laboratory Control Sample (LCS): A known matrix spiked with compound(s) representative of the target analytes, which is used to document laboratory performance.

Matrix Duplicate: An intra-laboratory split sample which is used to document the precision of a method in a given sample matrix.

Matrix Spike: An aliquot of a sample spiked with a known concentration of target analyte(s). The spiking occurs prior to sample preparation and analysis. A matrix spike is used to document the bias of a method in a given sample matrix.

Method Blank: An analyte-free matrix to which all reagents are added in the same volumes or proportions as used in sample processing. The method blank should be carried through the complete sample preparation and analytical procedure. The method blank is used to document contamination resulting from the analytical process.

Method Detection Limit (MDL): The minimum concentration of a substance that can be measured and reported with 99% confidence that the analyte concentration is greater than zero and is determined from analysis of a sample in a given matrix type containing the analyte.

Reportable Detection Limit (RDL): The lowest concentration that can be reliably achieved within specified limits of precision and accuracy during routine laboratory operating conditions. For many analytes the RDL analyte concentration is selected as the lowest non-zero standard in the calibration curve. While the RDL is approximately 5 to 10 times the MDL, the RDL for each sample takes into account the sample volume/weight, extract/digestate volume, cleanup procedures and, if applicable, dry weight correction. Sample RDLs are highly matrix-dependent.

Surrogate: An organic compound which is similar to the target analyte(s) in chemical composition and behavior in the analytical process, but which is not normally found in environmental samples. These compounds are spiked into all blanks, standards, and samples prior to analysis. Percent recoveries are calculated for each surrogate.

Validated by:
Hanibal C. Tayeh, Ph.D.
June O'Connor
Nicole Leja

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* Reportable Detection Limit BRL = Below Reporting Limit

Page 60 of 62

The following outlines the condition of all VPH samples contained within this report upon laboratory receipt.

Matrix	Soil				
Containers	<input checked="" type="checkbox"/> Satisfactory <input type="checkbox"/> Broken <input type="checkbox"/> Leaking				
Sample Preservative	Aqueous (acid-preserved)	<input checked="" type="checkbox"/> N/A <input type="checkbox"/> pH≤2 <input type="checkbox"/> pH>2 Comment:			
	Soil or Sediment	<input type="checkbox"/> N/A <input type="checkbox"/> Samples not received in Methanol			ml Methanol/g soil <input checked="" type="checkbox"/> 1:1 +/-25% <input type="checkbox"/> Other:
		<input checked="" type="checkbox"/> Samples received in Methanol: <input checked="" type="checkbox"/> covering soil/sediment <input type="checkbox"/> not covering soil/sediment			
	<input checked="" type="checkbox"/> Samples received in air-tight container:				
Temperature	<input type="checkbox"/> Received on ice <input checked="" type="checkbox"/> Received at 4 ± 2 °C <input type="checkbox"/> Other: °C				

Were all QA/QC procedures followed as required by the VPH method? Yes

Were any significant modifications made to the VPH method as specified in section 11.3? No *see below

Were all performance/acceptance standards for required QA/QC procedures achieved? Yes

* Yes, if PID and FID surrogate recoveries are listed as n/a, then that sample was run via GCMS using all QC criteria specified in the method

The following outlines the condition of all EPH samples contained within this report upon laboratory receipt.

Matrix	Soil				
Containers	<input checked="" type="checkbox"/> Satisfactory <input type="checkbox"/> Broken <input type="checkbox"/> Leaking				
Aqueous Preservative	<input checked="" type="checkbox"/> N/A	<input type="checkbox"/> pH≤2	<input type="checkbox"/> pH>2	<input type="checkbox"/> pH adjusted to <2 in lab	Comment:
Temperature	<input type="checkbox"/> Received on ice <input checked="" type="checkbox"/> Received at 4 ± 2 °C <input type="checkbox"/> Other: °C				

Were all QA/QC procedures followed as required by the EPH method? Yes

Were any significant modifications made to the EPH method as specified in Section 11.3? No

Were all performance/acceptance standards for required QA/QC procedures achieved? Yes

I attest that based upon my inquiry of those individuals immediately responsible for obtaining the information, the material contained in this report is, to the best of my knowledge and belief, accurate and complete.

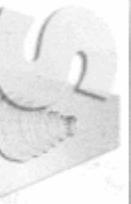
Authorized by:

Hanibal C. Tayeh, Ph.D.
President/Laboratory Director

MADEP MCP ANALYTICAL METHOD REPORT CERTIFICATION FORM

Laboratory Name: Spectrum Analytical, Inc. - Agawam, MA	Project #: 05-213212				
Project Location: Warren Equities - Westborough, MA	MADEP RTN ¹ :				
This form provides certifications for the following data set: SB07646-01 through SB07646-11					
Sample matrices:	Soil				
MCP SW-846 Methods Used	<input checked="" type="checkbox"/> 8260B	<input type="checkbox"/> 8151A	<input type="checkbox"/> 8330	<input checked="" type="checkbox"/> 6010B	<input checked="" type="checkbox"/> 7470A/1A
	<input type="checkbox"/> 8270C	<input checked="" type="checkbox"/> 8081A	<input checked="" type="checkbox"/> VPH	<input type="checkbox"/> 6020	<input type="checkbox"/> 9014M ²
	<input checked="" type="checkbox"/> 8082	<input type="checkbox"/> 8021B	<input checked="" type="checkbox"/> EPH	<input type="checkbox"/> 7000S ³	<input type="checkbox"/> 7196A
1 List Release Tracking Number (RTN), if known 2 M - SW-846 Method 9014 or MADEP Physiologically Available Cyanide (PAC) Method 3 S - SW-846 Methods 7000 Series List individual method and analyte					
<i>An affirmative response to questions A, B, C and D is required for "Presumptive Certainty" status</i>					
A	Were all samples received by the laboratory in a condition consistent with that described on the Chain of Custody documentation for the data set?				<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No
B	Were all QA/QC procedures required for the specified analytical method(s) included in this report followed, including the requirement to note and discuss in a narrative QC data that did not meet appropriate performance standards or guidelines?				<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No
C	Does the data included in this report meet all the analytical requirements for "Presumptive Certainty", as described in Section 2.0 (a), (b), (c) and (d) of the MADEP document CAM VII A, "Quality Assurance and Quality Control Guidelines for the Acquisition and Reporting of Analytical Data"?				<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No
D	<u>VPH and EPH methods only:</u> Was the VPH or EPH method conducted without significant modifications (see Section 11.3 of respective methods)?				<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No
<i>A response to questions E and F below is required for "Presumptive Certainty" status</i>					
E	Were all analytical QC performance standards and recommendations for the specified methods achieved?				<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
F	Were results for all analyte-list compounds/elements for the specified method(s) reported?				<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
<i>All negative responses are addressed in a case narrative on the cover page of this report.</i>					
I, the undersigned, attest under the pains and penalties of perjury that, based upon my personal inquiry of those responsible for obtaining the information, the material contained in this analytical report is, to the best of my knowledge and belief, accurate and complete.					
 Hanibal C. Tayeh, Ph.D. President/Laboratory Director					
					Date: 2/18/2010

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S36764

Special Handling:
 Standard TAT - 7 to 10 business days
 Rush TAT - Date Needed:
 All TATs subject to laboratory approval.
 Min. 24-hour notification needed for rush.
 Samples disposed of after 60 days unless otherwise instructed.





SPECTRUM ANALYTICAL, INC.
Flemington
HANIBAL TECHNOLOGY

CHAIN OF CUSTODY RECORD

67646

EDD Formatt

EDD Format
E-mail to JSMITH@ECS-CONSULT.COM

Condition upon receipt: Iced Ambient

Report Date:
09-Mar-10 15:17

- Final Report
 Re-Issued Report
 Revised Report



SPECTRUM ANALYTICAL, INC.
Featuring
HANIBAL TECHNOLOGY
Laboratory Report

Environmental Compliance Services
10 State Street
Woburn, MA 01801
Attn: Jamie Smith

Project: 183 Turnpike Rd - Westborough, MA
Project #: 05-213212

<u>Laboratory ID</u>	<u>Client Sample ID</u>	<u>Matrix</u>	<u>Date Sampled</u>	<u>Date Received</u>
SB08728-01	GP-1 (0-1)	Soil	03-Mar-10 08:30	04-Mar-10 17:00
SB08728-02	GP-2 (0-1)	Soil	03-Mar-10 08:45	04-Mar-10 17:00
SB08728-03	GP-3 (2-4)	Soil	03-Mar-10 08:55	04-Mar-10 17:00
SB08728-04	GP-4 (0-1)	Soil	03-Mar-10 09:05	04-Mar-10 17:00
SB08728-05	GP-5 (0-1)	Soil	03-Mar-10 09:20	04-Mar-10 17:00
SB08728-06	GP-6 (0-1)	Soil	03-Mar-10 09:35	04-Mar-10 17:00
SB08728-07	GP-7 (2-4)	Soil	03-Mar-10 09:45	04-Mar-10 17:00
SB08728-08	GP-8 (0-1)	Soil	03-Mar-10 09:55	04-Mar-10 17:00
SB08728-09	GP-9 (0-1)	Soil	03-Mar-10 10:05	04-Mar-10 17:00
SB08728-10	GP-10 (0-1)	Soil	03-Mar-10 10:10	04-Mar-10 17:00
SB08728-11	GP-11 (0-1)	Soil	03-Mar-10 10:15	04-Mar-10 17:00
SB08728-12	GP-12 (0-1)	Soil	03-Mar-10 10:20	04-Mar-10 17:00
SB08728-13	GP-13 (0-1)	Soil	03-Mar-10 10:25	04-Mar-10 17:00
SB08728-14	GP-14 (0-1)	Soil	03-Mar-10 10:30	04-Mar-10 17:00

I attest that the information contained within the report has been reviewed for accuracy and checked against the quality control requirements for each method. These results relate only to the sample(s) as received.

All applicable NELAC requirements have been met.

Massachusetts # M-MA138/MA1110

Connecticut # PH-0777

Florida # E87600/E87936

Maine # MA138

New Hampshire # 2538

New Jersey # MA011/MA012

New York # 11393/11840

Pennsylvania # 68-04426/68-02924

Rhode Island # 98

USDA # S-51435

Vermont # VT-11393



Authorized by:

A handwritten signature in black ink, appearing to read "HANIBAL C. TAYEH".

Hanibal C. Tayeh, Ph.D.
President/Laboratory Director

Technical Reviewer's Initial:

A handwritten initial "N" enclosed in a small circle.

Spectrum Analytical holds certification in the State of Massachusetts for the analytes as indicated with an X in the "Cert." column within this report. Please note that the State of Massachusetts does not offer certification for all analytes.

Please note that this report contains 24 pages of analytical data plus Chain of Custody document(s). When the Laboratory Report is indicated as revised, this report supersedes any previously dated reports for the laboratory ID(s) referenced above. Where this report identifies subcontracted analyses, copies of the subcontractor's test report are available upon request. This report may not be reproduced, except in full, without written approval from Spectrum Analytical, Inc.

Spectrum Analytical, Inc. is a NELAC accredited laboratory organization and meets NELAC testing standards. Use of the NELAC logo however does not insure that Spectrum is currently accredited for the specific method or analyte indicated. Please refer to our "Quality" web page at www.spectrum-analytical.com for a full listing of our current certifications and fields of accreditation. States in which Spectrum Analytical, Inc. holds NELAC certification are New York, New Hampshire, New Jersey and Florida. All analytical work for Volatile Organic and Air analysis are transferred to and conducted at our 830 Silver Street location (NY-11840, FL-E87936 and NJ-MA012).

Please contact the Laboratory or Technical Director at 800-789-9115 with any questions regarding the data contained in this laboratory report.

CASE NARRATIVE:

The sample temperature upon receipt by Spectrum Analytical courier was recorded as 4.7 degrees Celsius. The condition of these samples was further noted as received on ice. The samples were transported on ice to the laboratory facility and the temperature was recorded at degrees Celsius upon receipt at the laboratory. Please refer to the Chain of Custody for details specific to sample receipt times.

An infrared thermometer with a tolerance of +/- 2.0 degrees Celsius was used immediately upon receipt of the samples.

If a Matrix Spike (MS), Matrix Spike Duplicate (MSD) or Duplicate (DUP) was not requested on the Chain of Custody, method criteria may have been fulfilled with a source sample not of this Sample Delivery Group.

MADEP has published a list of analytical methods (CAM) which provides a series of recommended protocols for the acquisition, analysis and reporting of analytical data in support of MCP decisions. "Presumptive Certainty" can be established only for those methods published by the MADEP in the MCP CAM. The compounds and/or elements reported were specifically requested by the client on the Chain of Custody and in some cases may not include the full analyte list as defined in the method.

According to WSC-CAM 5/2009 Rev.1, Table 11 A-1, recovery for some VOC analytes have been deemed potentially difficult. Although they may still be within the recommended recovery range, a range has been set based on historical control limits.

See below for any non-conformances and issues relating to quality control samples and/or sample analysis/matrix.

SW846 8081A

Samples:

S001947-CCV1

Analyte percent difference is outside individual acceptance criteria, but within overall method allowances.

Methoxychlor [2C] (-17.7%)

S001947-CCV2

Analyte percent difference is outside individual acceptance criteria, but within overall method allowances.

Methoxychlor [2C] (-19.5%)

S001947-CCV3

Analyte percent difference is outside individual acceptance criteria, but within overall method allowances.

Methoxychlor [2C] (-24.1%)

The analyte result for the confirmation column was outside of the acceptance limits. The result from the primary column was used. The analyte was not detected in the associated samples.

Methoxychlor [2C]

S001947-CCV4

Analyte percent difference is outside individual acceptance criteria, but within overall method allowances.

Methoxychlor [2C] (-19.4%)

S001972-CCV2

Analyte percent difference is outside individual acceptance criteria, but within overall method allowances.

Methoxychlor (-15.4%)

Methoxychlor [2C] (-23.6%)

The analyte result for the confirmation column was outside of the acceptance limits. The result from the primary column was used. The analyte was not detected in the associated samples.

Methoxychlor [2C]

Sample Identification

GP-1 (0-1)

SB08728-01

Client Project #

05-213212

Matrix

Soil

Collection Date/Time

03-Mar-10 08:30

Received

04-Mar-10

CAS No.	Analyte(s)	Result	Flag	Units	*RDL	Dilution	Method Ref.	Prepared	Analyzed	Analyst	Batch	Cert.
Total Metals by EPA 6000/7000 Series Methods												
7440-38-2	Arsenic	7.89		mg/kg dry	1.59	1	SW846 6010B	05-Mar-10	08-Mar-10	LR	1004958	
General Chemistry Parameters												
	% Solids	93.5		%		1	SM2540 G Mod.	08-Mar-10	08-Mar-10	BD	1005098	

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* Reportable Detection Limit

BRL = Below Reporting Limit

Page 4 of 24

Sample IdentificationGP-2 (0-1)
SB08728-02Client Project #

05-213212

Matrix

Soil

Collection Date/Time

03-Mar-10 08:45

Received

04-Mar-10

<u>CAS No.</u>	<u>Analyte(s)</u>	<u>Result</u>	<u>Flag</u>	<u>Units</u>	<u>*RDL</u>	<u>Dilution</u>	<u>Method Ref.</u>	<u>Prepared</u>	<u>Analyzed</u>	<u>Analyst</u>	<u>Batch</u>	<u>Cert.</u>
Semivolatile Organic Compounds by GC												
<u>Organochlorine Pesticides SW846 8081A</u>												
<u>Prepared by method SW846 3545A</u>												
319-84-6	alpha-BHC	BRL		µg/kg dry	5.46	1	SW846 8081A	08-Mar-10	08-Mar-10	DS	1005060	
319-85-7	beta-BHC	BRL		µg/kg dry	5.46	1	"	"	"	"	"	"
319-86-8	delta-BHC	BRL		µg/kg dry	5.46	1	"	"	"	"	"	"
58-89-9	gamma-BHC (Lindane)	BRL		µg/kg dry	5.46	1	"	"	"	"	"	"
76-44-8	Heptachlor	BRL		µg/kg dry	5.46	1	"	"	"	"	"	"
309-00-2	Aldrin	BRL		µg/kg dry	5.46	1	"	"	"	"	"	"
1024-57-3	Heptachlor epoxide	BRL		µg/kg dry	5.46	1	"	"	"	"	"	"
959-98-8	Endosulfan I	BRL		µg/kg dry	5.46	1	"	"	"	"	"	"
60-57-1	Dieldrin	BRL		µg/kg dry	5.46	1	"	"	"	"	"	"
72-55-9	4,4'-DDE (p,p')	8.48		µg/kg dry	5.46	1	"	"	"	"	"	"
72-20-8	Endrin	BRL		µg/kg dry	8.74	1	"	"	"	"	"	"
33213-65-9	Endosulfan II	BRL		µg/kg dry	8.74	1	"	"	"	"	"	"
72-54-8	4,4'-DDD (p,p')	BRL		µg/kg dry	8.74	1	"	"	"	"	"	"
1031-07-8	Endosulfan sulfate	BRL		µg/kg dry	8.74	1	"	"	"	"	"	"
50-29-3	4,4'-DDT (p,p')	21.3		µg/kg dry	8.74	1	"	"	"	"	"	"
72-43-5	Methoxychlor	BRL		µg/kg dry	8.74	1	"	"	"	"	"	"
53494-70-5	Endrin ketone	BRL		µg/kg dry	8.74	1	"	"	"	"	"	"
7421-93-4	Endrin aldehyde	BRL		µg/kg dry	8.74	1	"	"	"	"	"	"
5103-71-9	alpha-Chlordane	BRL		µg/kg dry	5.46	1	"	"	"	"	"	"
5566-34-7	gamma-Chlordane	BRL		µg/kg dry	5.46	1	"	"	"	"	"	"
8001-35-2	Toxaphene	BRL		µg/kg dry	109	1	"	"	"	"	"	"
57-74-9	Chlordane	BRL		µg/kg dry	21.8	1	"	"	"	"	"	"
2303-16-4	Diallate	BRL		µg/kg dry	10.9	1	"	"	"	"	"	"
15972-60-8	Alachlor	BRL		µg/kg dry	5.46	1	"	"	"	"	"	"
465-73-6	Isodrin	BRL		µg/kg dry	10.9	1	"	"	"	"	"	"
510-15-6	Chlorobenzilate	BRL		µg/kg dry	10.9	1	"	"	"	"	"	"
<u>Surrogate recoveries:</u>												
10386-84-2	4,4-DB-Octafluorobiphenyl (Sr)	59			30-150 %		"	"	"	"	"	"
10386-84-2	4,4-DB-Octafluorobiphenyl (Sr) [2C]	50			30-150 %		"	"	"	"	"	"
2051-24-3	Decachlorobiphenyl (Sr)	58			30-150 %		"	"	"	"	"	"
2051-24-3	Decachlorobiphenyl (Sr) [2C]	74			30-150 %		"	"	"	"	"	"
Total Metals by EPA 6000/7000 Series Methods												
7440-38-2	Arsenic	28.1		mg/kg dry	1.59	1	SW846 6010B	05-Mar-10	08-Mar-10	LR	1004958	
General Chemistry Parameters												
% Solids		86.8		%		1	SM2540 G Mod.	08-Mar-10	08-Mar-10	BD	1005098	

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Sample IdentificationGP-3 (2-4)
SB08728-03Client Project #

05-213212

Matrix

Soil

Collection Date/Time

03-Mar-10 08:55

Received

04-Mar-10

<u>CAS No.</u>	<u>Analyte(s)</u>	<u>Result</u>	<u>Flag</u>	<u>Units</u>	<u>*RDL</u>	<u>Dilution</u>	<u>Method Ref.</u>	<u>Prepared</u>	<u>Analyzed</u>	<u>Analyst</u>	<u>Batch</u>	<u>Cert.</u>
Semivolatile Organic Compounds by GC												
<u>Organochlorine Pesticides SW846 8081A</u>												
<u>Prepared by method SW846 3545A</u>												
319-84-6	alpha-BHC	BRL		µg/kg dry	5.11	1	SW846 8081A	08-Mar-10	08-Mar-10	DS	1005060	
319-85-7	beta-BHC	BRL		µg/kg dry	5.11	1	"	"	"	"	"	"
319-86-8	delta-BHC	BRL		µg/kg dry	5.11	1	"	"	"	"	"	"
58-89-9	gamma-BHC (Lindane)	BRL		µg/kg dry	5.11	1	"	"	"	"	"	"
76-44-8	Heptachlor	BRL		µg/kg dry	5.11	1	"	"	"	"	"	"
309-00-2	Aldrin	BRL		µg/kg dry	5.11	1	"	"	"	"	"	"
1024-57-3	Heptachlor epoxide	BRL		µg/kg dry	5.11	1	"	"	"	"	"	"
959-98-8	Endosulfan I	BRL		µg/kg dry	5.11	1	"	"	"	"	"	"
60-57-1	Dieldrin	BRL		µg/kg dry	5.11	1	"	"	"	"	"	"
72-55-9	4,4'-DDE (p,p')	BRL		µg/kg dry	5.11	1	"	"	"	"	"	"
72-20-8	Endrin	BRL		µg/kg dry	8.17	1	"	"	"	"	"	"
33213-65-9	Endosulfan II	BRL		µg/kg dry	8.17	1	"	"	"	"	"	"
72-54-8	4,4'-DDD (p,p')	BRL		µg/kg dry	8.17	1	"	"	"	"	"	"
1031-07-8	Endosulfan sulfate	BRL		µg/kg dry	8.17	1	"	"	"	"	"	"
50-29-3	4,4'-DDT (p,p')	BRL		µg/kg dry	8.17	1	"	"	"	"	"	"
72-43-5	Methoxychlor	BRL		µg/kg dry	8.17	1	"	"	"	"	"	"
53494-70-5	Endrin ketone	BRL		µg/kg dry	8.17	1	"	"	"	"	"	"
7421-93-4	Endrin aldehyde	BRL		µg/kg dry	8.17	1	"	"	"	"	"	"
5103-71-9	alpha-Chlordane	BRL		µg/kg dry	5.11	1	"	"	"	"	"	"
5566-34-7	gamma-Chlordane	BRL		µg/kg dry	5.11	1	"	"	"	"	"	"
8001-35-2	Toxaphene	BRL		µg/kg dry	102	1	"	"	"	"	"	"
57-74-9	Chlordane	BRL		µg/kg dry	20.4	1	"	"	"	"	"	"
2303-16-4	Diallate	BRL		µg/kg dry	10.2	1	"	"	"	"	"	"
15972-60-8	Alachlor	BRL		µg/kg dry	5.11	1	"	"	"	"	"	"
465-73-6	Isodrin	BRL		µg/kg dry	10.2	1	"	"	"	"	"	"
510-15-6	Chlorobenzilate	BRL		µg/kg dry	10.2	1	"	"	"	"	"	"
<u>Surrogate recoveries:</u>												
10386-84-2	4,4-DB-Octafluorobiphenyl (Sr)	61			30-150 %		"	"	"	"	"	"
10386-84-2	4,4-DB-Octafluorobiphenyl (Sr) [2C]	48			30-150 %		"	"	"	"	"	"
2051-24-3	Decachlorobiphenyl (Sr)	62			30-150 %		"	"	"	"	"	"
2051-24-3	Decachlorobiphenyl (Sr) [2C]	140			30-150 %		"	"	"	"	"	"
Total Metals by EPA 6000/7000 Series Methods												
7440-38-2	Arsenic	7.48		mg/kg dry	1.53	1	SW846 6010B	05-Mar-10	08-Mar-10	LR	1004958	
General Chemistry Parameters												
% Solids		91.8		%		1	SM2540 G Mod.	08-Mar-10	08-Mar-10	BD	1005098	

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Sample Identification

GP-4 (0-1)

SB08728-04

Client Project #

05-213212

Matrix

Soil

Collection Date/Time

03-Mar-10 09:05

Received

04-Mar-10

CAS No.	Analyte(s)	Result	Flag	Units	*RDL	Dilution	Method Ref.	Prepared	Analyzed	Analyst	Batch	Cert.
Total Metals by EPA 6000/7000 Series Methods												
7440-38-2	Arsenic	23.1		mg/kg dry	1.56	1	SW846 6010B	05-Mar-10	08-Mar-10	LR	1004958	
General Chemistry Parameters												
	% Solids	92.9		%		1	SM2540 G Mod.	08-Mar-10	08-Mar-10	BD	1005098	

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* Reportable Detection Limit

BRL = Below Reporting Limit

Page 7 of 24

Sample IdentificationGP-5 (0-1)
SB08728-05Client Project #

05-213212

Matrix

Soil

Collection Date/Time

03-Mar-10 09:20

Received

04-Mar-10

<u>CAS No.</u>	<u>Analyte(s)</u>	<u>Result</u>	<u>Flag</u>	<u>Units</u>	<u>*RDL</u>	<u>Dilution</u>	<u>Method Ref.</u>	<u>Prepared</u>	<u>Analyzed</u>	<u>Analyst</u>	<u>Batch</u>	<u>Cert.</u>
Semivolatile Organic Compounds by GC												
<u>Organochlorine Pesticides SW846 8081A</u>												
<u>Prepared by method SW846 3545A</u>												
319-84-6	alpha-BHC	BRL		µg/kg dry	5.51	1	SW846 8081A	08-Mar-10	08-Mar-10	DS	1005060	
319-85-7	beta-BHC	BRL		µg/kg dry	5.51	1	"	"	"	"	"	"
319-86-8	delta-BHC	BRL		µg/kg dry	5.51	1	"	"	"	"	"	"
58-89-9	gamma-BHC (Lindane)	BRL		µg/kg dry	5.51	1	"	"	"	"	"	"
76-44-8	Heptachlor	BRL		µg/kg dry	5.51	1	"	"	"	"	"	"
309-00-2	Aldrin	BRL		µg/kg dry	5.51	1	"	"	"	"	"	"
1024-57-3	Heptachlor epoxide	BRL		µg/kg dry	5.51	1	"	"	"	"	"	"
959-98-8	Endosulfan I	BRL		µg/kg dry	5.51	1	"	"	"	"	"	"
60-57-1	Dieldrin	BRL		µg/kg dry	5.51	1	"	"	"	"	"	"
72-55-9	4,4'-DDE (p,p')	BRL		µg/kg dry	5.51	1	"	"	"	"	"	"
72-20-8	Endrin	BRL		µg/kg dry	8.82	1	"	"	"	"	"	"
33213-65-9	Endosulfan II	BRL		µg/kg dry	8.82	1	"	"	"	"	"	"
72-54-8	4,4'-DDD (p,p')	BRL		µg/kg dry	8.82	1	"	"	"	"	"	"
1031-07-8	Endosulfan sulfate	BRL		µg/kg dry	8.82	1	"	"	"	"	"	"
50-29-3	4,4'-DDT (p,p')	BRL		µg/kg dry	8.82	1	"	"	"	"	"	"
72-43-5	Methoxychlor	BRL		µg/kg dry	8.82	1	"	"	"	"	"	"
53494-70-5	Endrin ketone	BRL		µg/kg dry	8.82	1	"	"	"	"	"	"
7421-93-4	Endrin aldehyde	BRL		µg/kg dry	8.82	1	"	"	"	"	"	"
5103-71-9	alpha-Chlordane	BRL		µg/kg dry	5.51	1	"	"	"	"	"	"
5566-34-7	gamma-Chlordane	BRL		µg/kg dry	5.51	1	"	"	"	"	"	"
8001-35-2	Toxaphene	BRL		µg/kg dry	110	1	"	"	"	"	"	"
57-74-9	Chlordane	BRL		µg/kg dry	22.1	1	"	"	"	"	"	"
2303-16-4	Diallate	BRL		µg/kg dry	11.0	1	"	"	"	"	"	"
15972-60-8	Alachlor	BRL		µg/kg dry	5.51	1	"	"	"	"	"	"
465-73-6	Isodrin	BRL		µg/kg dry	11.0	1	"	"	"	"	"	"
510-15-6	Chlorobenzilate	BRL		µg/kg dry	11.0	1	"	"	"	"	"	"
<u>Surrogate recoveries:</u>												
10386-84-2	4,4-DB-Octafluorobiphenyl (Sr)	63			30-150 %		"	"	"	"	"	"
10386-84-2	4,4-DB-Octafluorobiphenyl (Sr) [2C]	53			30-150 %		"	"	"	"	"	"
2051-24-3	Decachlorobiphenyl (Sr)	68			30-150 %		"	"	"	"	"	"
2051-24-3	Decachlorobiphenyl (Sr) [2C]	116			30-150 %		"	"	"	"	"	"
Total Metals by EPA 6000/7000 Series Methods												
7440-38-2	Arsenic	19.5		mg/kg dry	1.64	1	SW846 6010B	05-Mar-10	08-Mar-10	LR	1004958	
General Chemistry Parameters												
% Solids		88.9		%		1	SM2540 G Mod.	08-Mar-10	08-Mar-10	BD	1005098	

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Sample IdentificationGP-6 (0-1)
SB08728-06Client Project #

05-213212

Matrix

Soil

Collection Date/Time

03-Mar-10 09:35

Received

04-Mar-10

<u>CAS No.</u>	<u>Analyte(s)</u>	<u>Result</u>	<u>Flag</u>	<u>Units</u>	<u>*RDL</u>	<u>Dilution</u>	<u>Method Ref.</u>	<u>Prepared</u>	<u>Analyzed</u>	<u>Analyst</u>	<u>Batch</u>	<u>Cert.</u>
Semivolatile Organic Compounds by GC												
<u>Organochlorine Pesticides SW846 8081A</u>												
<u>Prepared by method SW846 3545A</u>												
319-84-6	alpha-BHC	BRL		µg/kg dry	5.28	1	SW846 8081A	08-Mar-10	08-Mar-10	DS	1005060	
319-85-7	beta-BHC	BRL		µg/kg dry	5.28	1	"	"	"	"	"	"
319-86-8	delta-BHC	BRL		µg/kg dry	5.28	1	"	"	"	"	"	"
58-89-9	gamma-BHC (Lindane)	BRL		µg/kg dry	5.28	1	"	"	"	"	"	"
76-44-8	Heptachlor	BRL		µg/kg dry	5.28	1	"	"	"	"	"	"
309-00-2	Aldrin	BRL		µg/kg dry	5.28	1	"	"	"	"	"	"
1024-57-3	Heptachlor epoxide	BRL		µg/kg dry	5.28	1	"	"	"	"	"	"
959-98-8	Endosulfan I	BRL		µg/kg dry	5.28	1	"	"	"	"	"	"
60-57-1	Dieldrin	BRL		µg/kg dry	5.28	1	"	"	"	"	"	"
72-55-9	4,4'-DDE (p,p')	BRL		µg/kg dry	5.28	1	"	"	"	"	"	"
72-20-8	Endrin	BRL		µg/kg dry	8.46	1	"	"	"	"	"	"
33213-65-9	Endosulfan II	BRL		µg/kg dry	8.46	1	"	"	"	"	"	"
72-54-8	4,4'-DDD (p,p')	BRL		µg/kg dry	8.46	1	"	"	"	"	"	"
1031-07-8	Endosulfan sulfate	BRL		µg/kg dry	8.46	1	"	"	"	"	"	"
50-29-3	4,4'-DDT (p,p')	12.1		µg/kg dry	8.46	1	"	"	"	"	"	"
72-43-5	Methoxychlor	BRL		µg/kg dry	8.46	1	"	"	"	"	"	"
53494-70-5	Endrin ketone	BRL		µg/kg dry	8.46	1	"	"	"	"	"	"
7421-93-4	Endrin aldehyde	BRL		µg/kg dry	8.46	1	"	"	"	"	"	"
5103-71-9	alpha-Chlordane	BRL		µg/kg dry	5.28	1	"	"	"	"	"	"
5566-34-7	gamma-Chlordane	BRL		µg/kg dry	5.28	1	"	"	"	"	"	"
8001-35-2	Toxaphene	BRL		µg/kg dry	106	1	"	"	"	"	"	"
57-74-9	Chlordane	BRL		µg/kg dry	21.1	1	"	"	"	"	"	"
2303-16-4	Diallate	BRL		µg/kg dry	10.6	1	"	"	"	"	"	"
15972-60-8	Alachlor	BRL		µg/kg dry	5.28	1	"	"	"	"	"	"
465-73-6	Isodrin	BRL		µg/kg dry	10.6	1	"	"	"	"	"	"
510-15-6	Chlorobenzilate	BRL		µg/kg dry	10.6	1	"	"	"	"	"	"
<u>Surrogate recoveries:</u>												
10386-84-2	4,4-DB-Octafluorobiphenyl (Sr)	51			30-150 %		"	"	"	"	"	"
10386-84-2	4,4-DB-Octafluorobiphenyl (Sr) [2C]	44			30-150 %		"	"	"	"	"	"
2051-24-3	Decachlorobiphenyl (Sr)	48			30-150 %		"	"	"	"	"	"
2051-24-3	Decachlorobiphenyl (Sr) [2C]	62			30-150 %		"	"	"	"	"	"
Total Metals by EPA 6000/7000 Series Methods												
7440-38-2	Arsenic	105		mg/kg dry	1.58	1	SW846 6010B	05-Mar-10	08-Mar-10	LR	1004958	
General Chemistry Parameters												
% Solids		88.0		%		1	SM2540 G Mod.	08-Mar-10	08-Mar-10	BD	1005098	

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Sample IdentificationGP-7 (2-4)
SB08728-07Client Project #

05-213212

Matrix

Soil

Collection Date/Time

03-Mar-10 09:45

Received

04-Mar-10

<u>CAS No.</u>	<u>Analyte(s)</u>	<u>Result</u>	<u>Flag</u>	<u>Units</u>	<u>*RDL</u>	<u>Dilution</u>	<u>Method Ref.</u>	<u>Prepared</u>	<u>Analyzed</u>	<u>Analyst</u>	<u>Batch</u>	<u>Cert.</u>
Semivolatile Organic Compounds by GC												
<u>Organochlorine Pesticides SW846 8081A</u>												
<u>Prepared by method SW846 3545A</u>												
319-84-6	alpha-BHC	BRL		µg/kg dry	5.46	1	SW846 8081A	08-Mar-10	08-Mar-10	DS	1005060	
319-85-7	beta-BHC	BRL		µg/kg dry	5.46	1	"	"	"	"	"	"
319-86-8	delta-BHC	BRL		µg/kg dry	5.46	1	"	"	"	"	"	"
58-89-9	gamma-BHC (Lindane)	BRL		µg/kg dry	5.46	1	"	"	"	"	"	"
76-44-8	Heptachlor	BRL		µg/kg dry	5.46	1	"	"	"	"	"	"
309-00-2	Aldrin	BRL		µg/kg dry	5.46	1	"	"	"	"	"	"
1024-57-3	Heptachlor epoxide	BRL		µg/kg dry	5.46	1	"	"	"	"	"	"
959-98-8	Endosulfan I	BRL		µg/kg dry	5.46	1	"	"	"	"	"	"
60-57-1	Dieldrin	BRL		µg/kg dry	5.46	1	"	"	"	"	"	"
72-55-9	4,4'-DDE (p,p')	BRL		µg/kg dry	5.46	1	"	"	"	"	"	"
72-20-8	Endrin	BRL		µg/kg dry	8.73	1	"	"	"	"	"	"
33213-65-9	Endosulfan II	BRL		µg/kg dry	8.73	1	"	"	"	"	"	"
72-54-8	4,4'-DDD (p,p')	BRL		µg/kg dry	8.73	1	"	"	"	"	"	"
1031-07-8	Endosulfan sulfate	BRL		µg/kg dry	8.73	1	"	"	"	"	"	"
50-29-3	4,4'-DDT (p,p')	BRL		µg/kg dry	8.73	1	"	"	"	"	"	"
72-43-5	Methoxychlor	BRL		µg/kg dry	8.73	1	"	"	"	"	"	"
53494-70-5	Endrin ketone	BRL		µg/kg dry	8.73	1	"	"	"	"	"	"
7421-93-4	Endrin aldehyde	BRL		µg/kg dry	8.73	1	"	"	"	"	"	"
5103-71-9	alpha-Chlordane	BRL		µg/kg dry	5.46	1	"	"	"	"	"	"
5566-34-7	gamma-Chlordane	BRL		µg/kg dry	5.46	1	"	"	"	"	"	"
8001-35-2	Toxaphene	BRL		µg/kg dry	109	1	"	"	"	"	"	"
57-74-9	Chlordane	BRL		µg/kg dry	21.8	1	"	"	"	"	"	"
2303-16-4	Diallate	BRL		µg/kg dry	10.9	1	"	"	"	"	"	"
15972-60-8	Alachlor	BRL		µg/kg dry	5.46	1	"	"	"	"	"	"
465-73-6	Isodrin	BRL		µg/kg dry	10.9	1	"	"	"	"	"	"
510-15-6	Chlorobenzilate	BRL		µg/kg dry	10.9	1	"	"	"	"	"	"
<u>Surrogate recoveries:</u>												
10386-84-2	4,4-DB-Octafluorobiphenyl (Sr)	44			30-150 %		"	"	"	"	"	"
10386-84-2	4,4-DB-Octafluorobiphenyl (Sr) [2C]	39			30-150 %		"	"	"	"	"	"
2051-24-3	Decachlorobiphenyl (Sr)	48			30-150 %		"	"	"	"	"	"
2051-24-3	Decachlorobiphenyl (Sr) [2C]	60			30-150 %		"	"	"	"	"	"
Total Metals by EPA 6000/7000 Series Methods												
7440-38-2	Arsenic	63.0		mg/kg dry	1.61	1	SW846 6010B	05-Mar-10	08-Mar-10	LR	1004958	
General Chemistry Parameters												
% Solids		84.5		%		1	SM2540 G Mod.	08-Mar-10	08-Mar-10	BD	1005098	

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Sample IdentificationGP-8 (0-1)
SB08728-08Client Project #

05-213212

Matrix

Soil

Collection Date/Time

03-Mar-10 09:55

Received

04-Mar-10

<u>CAS No.</u>	<u>Analyte(s)</u>	<u>Result</u>	<u>Flag</u>	<u>Units</u>	<u>*RDL</u>	<u>Dilution</u>	<u>Method Ref.</u>	<u>Prepared</u>	<u>Analyzed</u>	<u>Analyst</u>	<u>Batch</u>	<u>Cert.</u>
Total Metals by EPA 6000/7000 Series Methods												
7440-38-2	Arsenic	11.0		mg/kg dry	1.61	1	SW846 6010B	05-Mar-10	08-Mar-10	LR	1004958	
General Chemistry Parameters												
	% Solids	88.1		%		1	SM2540 G Mod.	08-Mar-10	08-Mar-10	BD	1005098	

Sample IdentificationGP-9 (0-1)
SB08728-09Client Project #

05-213212

Matrix

Soil

Collection Date/Time

03-Mar-10 10:05

Received

04-Mar-10

<u>CAS No.</u>	<u>Analyte(s)</u>	<u>Result</u>	<u>Flag</u>	<u>Units</u>	<u>*RDL</u>	<u>Dilution</u>	<u>Method Ref.</u>	<u>Prepared</u>	<u>Analyzed</u>	<u>Analyst</u>	<u>Batch</u>	<u>Cert.</u>
Total Metals by EPA 6000/7000 Series Methods												
7440-38-2	Arsenic	20.8		mg/kg dry	1.56	1	SW846 6010B	05-Mar-10	08-Mar-10	LR	1004958	
General Chemistry Parameters												
	% Solids	95.4		%		1	SM2540 G Mod.	08-Mar-10	08-Mar-10	BD	1005098	

Sample IdentificationGP-10 (0-1)
SB08728-10Client Project #

05-213212

Matrix

Soil

Collection Date/Time

03-Mar-10 10:10

Received

04-Mar-10

<u>CAS No.</u>	<u>Analyte(s)</u>	<u>Result</u>	<u>Flag</u>	<u>Units</u>	<u>*RDL</u>	<u>Dilution</u>	<u>Method Ref.</u>	<u>Prepared</u>	<u>Analyzed</u>	<u>Analyst</u>	<u>Batch</u>	<u>Cert.</u>
Total Metals by EPA 6000/7000 Series Methods												
7440-38-2	Arsenic	6.82		mg/kg dry	1.72	1	SW846 6010B	05-Mar-10	08-Mar-10	LR	1004958	
General Chemistry Parameters												
	% Solids	84.1		%		1	SM2540 G Mod.	08-Mar-10	08-Mar-10	BD	1005099	

Sample IdentificationGP-11 (0-1)
SB08728-11Client Project #

05-213212

Matrix

Soil

Collection Date/Time

03-Mar-10 10:15

Received

04-Mar-10

<u>CAS No.</u>	<u>Analyte(s)</u>	<u>Result</u>	<u>Flag</u>	<u>Units</u>	<u>*RDL</u>	<u>Dilution</u>	<u>Method Ref.</u>	<u>Prepared</u>	<u>Analyzed</u>	<u>Analyst</u>	<u>Batch</u>	<u>Cert.</u>
Total Metals by EPA 6000/7000 Series Methods												
7440-38-2	Arsenic	11.7		mg/kg dry	1.69	1	SW846 6010B	05-Mar-10	08-Mar-10	LR	1004958	
General Chemistry Parameters												
	% Solids	83.5		%		1	SM2540 G Mod.	08-Mar-10	08-Mar-10	BD	1005099	

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Page 11 of 24

Sample Identification

GP-12 (0-1)

SB08728-12

Client Project #

05-213212

Matrix

Soil

Collection Date/Time

03-Mar-10 10:20

Received

04-Mar-10

<u>CAS No.</u>	<u>Analyte(s)</u>	<u>Result</u>	<u>Flag</u>	<u>Units</u>	<u>*RDL</u>	<u>Dilution</u>	<u>Method Ref.</u>	<u>Prepared</u>	<u>Analyzed</u>	<u>Analyst</u>	<u>Batch</u>	<u>Cert.</u>
Semivolatile Organic Compounds by GC												
<u>Organochlorine Pesticides SW846 8081A</u>												
<u>Prepared by method SW846 3545A</u>												
319-84-6	alpha-BHC	BRL		µg/kg dry	6.12	1	SW846 8081A	08-Mar-10	08-Mar-10	DS	1005060	
319-85-7	beta-BHC	BRL		µg/kg dry	6.12	1	"	"	"	"	"	
319-86-8	delta-BHC	BRL		µg/kg dry	6.12	1	"	"	"	"	"	
58-89-9	gamma-BHC (Lindane)	BRL		µg/kg dry	6.12	1	"	"	"	"	"	
76-44-8	Heptachlor	BRL		µg/kg dry	6.12	1	"	"	"	"	"	
309-00-2	Aldrin	BRL		µg/kg dry	6.12	1	"	"	"	"	"	
1024-57-3	Heptachlor epoxide	BRL		µg/kg dry	6.12	1	"	"	"	"	"	
959-98-8	Endosulfan I	BRL		µg/kg dry	6.12	1	"	"	"	"	"	
60-57-1	Dieldrin	BRL		µg/kg dry	6.12	1	"	"	"	"	"	
72-55-9	4,4'-DDE (p,p')	BRL		µg/kg dry	6.12	1	"	"	"	"	"	
72-20-8	Endrin	BRL		µg/kg dry	9.79	1	"	"	"	"	"	
33213-65-9	Endosulfan II	BRL		µg/kg dry	9.79	1	"	"	"	"	"	
72-54-8	4,4'-DDD (p,p')	BRL		µg/kg dry	9.79	1	"	"	"	"	"	
1031-07-8	Endosulfan sulfate	BRL		µg/kg dry	9.79	1	"	"	"	"	"	
50-29-3	4,4'-DDT (p,p')	BRL		µg/kg dry	9.79	1	"	"	"	"	"	
72-43-5	Methoxychlor	BRL		µg/kg dry	9.79	1	"	"	"	"	"	
53494-70-5	Endrin ketone	BRL		µg/kg dry	9.79	1	"	"	"	"	"	
7421-93-4	Endrin aldehyde	BRL		µg/kg dry	9.79	1	"	"	"	"	"	
5103-71-9	alpha-Chlordane	BRL		µg/kg dry	6.12	1	"	"	"	"	"	
5566-34-7	gamma-Chlordane	BRL		µg/kg dry	6.12	1	"	"	"	"	"	
8001-35-2	Toxaphene	BRL		µg/kg dry	122	1	"	"	"	"	"	
57-74-9	Chlordane	BRL		µg/kg dry	24.5	1	"	"	"	"	"	
2303-16-4	Diallate	BRL		µg/kg dry	12.2	1	"	"	"	"	"	
15972-60-8	Alachlor	BRL		µg/kg dry	6.12	1	"	"	"	"	"	
465-73-6	Isodrin	BRL		µg/kg dry	12.2	1	"	"	"	"	"	
510-15-6	Chlorobenzilate	BRL		µg/kg dry	12.2	1	"	"	"	"	"	
<u>Surrogate recoveries:</u>												
10386-84-2	4,4-DB-Octafluorobiphenyl (Sr)	49			30-150 %		"	"	"	"	"	
10386-84-2	4,4-DB-Octafluorobiphenyl (Sr) [2C]	50			30-150 %		"	"	"	"	"	
2051-24-3	Decachlorobiphenyl (Sr)	49			30-150 %		"	"	"	"	"	
2051-24-3	Decachlorobiphenyl (Sr) [2C]	63			30-150 %		"	"	"	"	"	
Total Metals by EPA 6000/7000 Series Methods												
7440-38-2	Arsenic	9.65		mg/kg dry	1.84	1	SW846 6010B	05-Mar-10	08-Mar-10	LR	1004958	
General Chemistry Parameters												
% Solids		79.9		%		1	SM2540 G Mod.	08-Mar-10	08-Mar-10	BD	1005099	

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Page 12 of 24

Sample Identification

GP-13 (0-1)

SB08728-13

Client Project #

05-213212

Matrix

Soil

Collection Date/Time

03-Mar-10 10:25

Received

04-Mar-10

CAS No. Analyte(s)ResultFlagUnits*RDLDilutionMethod Ref.PreparedAnalyzedAnalystBatchCert.**Total Metals by EPA 6000/7000 Series Methods**

7440-38-2 Arsenic 9.99 mg/kg dry 1.74 1 SW846 6010B 05-Mar-10 08-Mar-10 LR 1004958

General Chemistry Parameters

% Solids 81.3 % 1 SM2540 G Mod. 08-Mar-10 08-Mar-10 BD 1005099

Sample Identification

GP-14 (0-1)

SB08728-14

Client Project #

05-213212

Matrix

Soil

Collection Date/Time

03-Mar-10 10:30

Received

04-Mar-10

CAS No. Analyte(s)ResultFlagUnits*RDLDilutionMethod Ref.PreparedAnalyzedAnalystBatchCert.**Total Metals by EPA 6000/7000 Series Methods**

7440-38-2 Arsenic 23.0 mg/kg dry 1.83 1 SW846 6010B 05-Mar-10 08-Mar-10 LR 1004958

General Chemistry Parameters

% Solids 78.8 % 1 SM2540 G Mod. 08-Mar-10 08-Mar-10 BD 1005099

Semivolatile Organic Compounds by GC - Quality Control

Analyte(s)	Result	Flag	Units	*RDL	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
Batch 1005060 - SW846 3545A										
<u>Blank (1005060-BLK1)</u>										
<u>Prepared & Analyzed: 08-Mar-10</u>										
alpha-BHC	BRL		µg/kg wet	5.00						
alpha-BHC [2C]	BRL		µg/kg wet	5.00						
beta-BHC	BRL		µg/kg wet	5.00						
beta-BHC [2C]	BRL		µg/kg wet	5.00						
delta-BHC	BRL		µg/kg wet	5.00						
delta-BHC [2C]	BRL		µg/kg wet	5.00						
gamma-BHC (Lindane)	BRL		µg/kg wet	5.00						
gamma-BHC (Lindane) [2C]	BRL		µg/kg wet	5.00						
Heptachlor	BRL		µg/kg wet	5.00						
Heptachlor [2C]	BRL		µg/kg wet	5.00						
Aldrin	BRL		µg/kg wet	5.00						
Aldrin [2C]	BRL		µg/kg wet	5.00						
Heptachlor epoxide	BRL		µg/kg wet	5.00						
Heptachlor epoxide [2C]	BRL		µg/kg wet	5.00						
Endosulfan I	BRL		µg/kg wet	5.00						
Endosulfan I [2C]	BRL		µg/kg wet	5.00						
Dieldrin	BRL		µg/kg wet	5.00						
Dieldrin [2C]	BRL		µg/kg wet	5.00						
4,4'-DDE (p,p')	BRL		µg/kg wet	5.00						
4,4'-DDE (p,p') [2C]	BRL		µg/kg wet	5.00						
Endrin	BRL		µg/kg wet	8.00						
Endrin [2C]	BRL		µg/kg wet	8.00						
Endosulfan II	BRL		µg/kg wet	8.00						
Endosulfan II [2C]	BRL		µg/kg wet	8.00						
4,4'-DDD (p,p')	BRL		µg/kg wet	8.00						
4,4'-DDD (p,p') [2C]	BRL		µg/kg wet	8.00						
Endosulfan sulfate	BRL		µg/kg wet	8.00						
Endosulfan sulfate [2C]	BRL		µg/kg wet	8.00						
4,4'-DDT (p,p')	BRL		µg/kg wet	8.00						
4,4'-DDT (p,p') [2C]	BRL		µg/kg wet	8.00						
Methoxychlor	BRL		µg/kg wet	8.00						
Methoxychlor [2C]	BRL		µg/kg wet	8.00						
Endrin ketone	BRL		µg/kg wet	8.00						
Endrin ketone [2C]	BRL		µg/kg wet	8.00						
Endrin aldehyde	BRL		µg/kg wet	8.00						
Endrin aldehyde [2C]	BRL		µg/kg wet	8.00						
alpha-Chlordane	BRL		µg/kg wet	5.00						
alpha-Chlordane [2C]	BRL		µg/kg wet	5.00						
gamma-Chlordane	BRL		µg/kg wet	5.00						
gamma-Chlordane [2C]	BRL		µg/kg wet	5.00						
Toxaphene	BRL		µg/kg wet	100						
Toxaphene [2C]	BRL		µg/kg wet	100						
Chlordane	BRL		µg/kg wet	20.0						
Chlordane [2C]	BRL		µg/kg wet	20.0						
Alachlor	BRL		µg/kg wet	5.00						
Alachlor [2C]	BRL		µg/kg wet	5.00						
Surrogate: 4,4-DB-Octafluorobiphenyl (Sr)	11.2		µg/kg wet	20.0		56	30-150			
Surrogate: 4,4-DB-Octafluorobiphenyl (Sr) [2C]	10.9		µg/kg wet	20.0		55	30-150			
Surrogate: Decachlorobiphenyl (Sr)	11.5		µg/kg wet	20.0		58	30-150			
Surrogate: Decachlorobiphenyl (Sr) [2C]	14.7		µg/kg wet	20.0		73	30-150			

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* Reportable Detection Limit

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Page 14 of 24

Semivolatile Organic Compounds by GC - Quality Control

Analyte(s)	Result	Flag	Units	*RDL	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
Batch 1005060 - SW846 3545A										
<u>LCS (1005060-BS1)</u>										
						<u>Prepared & Analyzed: 08-Mar-10</u>				
alpha-BHC	37.8		µg/kg wet	5.00	50.0	76	40-140			
alpha-BHC [2C]	36.6		µg/kg wet	5.00	50.0	73	40-140			
beta-BHC	37.8		µg/kg wet	5.00	50.0	76	40-140			
beta-BHC [2C]	39.1		µg/kg wet	5.00	50.0	78	40-140			
delta-BHC	34.2		µg/kg wet	5.00	50.0	68	40-140			
delta-BHC [2C]	33.6		µg/kg wet	5.00	50.0	67	40-140			
gamma-BHC (Lindane)	39.4		µg/kg wet	5.00	50.0	79	50-120			
gamma-BHC (Lindane) [2C]	38.6		µg/kg wet	5.00	50.0	77	50-120			
Heptachlor	39.6		µg/kg wet	5.00	50.0	79	40-140			
Heptachlor [2C]	37.3		µg/kg wet	5.00	50.0	75	40-140			
Aldrin	37.5		µg/kg wet	5.00	50.0	75	40-140			
Aldrin [2C]	36.5		µg/kg wet	5.00	50.0	73	40-140			
Heptachlor epoxide	37.4		µg/kg wet	5.00	50.0	75	50-140			
Heptachlor epoxide [2C]	36.4		µg/kg wet	5.00	50.0	73	50-140			
Endosulfan I	35.8		µg/kg wet	5.00	50.0	72	40-140			
Endosulfan I [2C]	36.6		µg/kg wet	5.00	50.0	73	40-140			
Dieldrin	36.7		µg/kg wet	5.00	50.0	73	40-130			
Dieldrin [2C]	36.8		µg/kg wet	5.00	50.0	74	40-130			
4,4'-DDE (p,p')	36.9		µg/kg wet	5.00	50.0	74	50-140			
4,4'-DDE (p,p') [2C]	36.8		µg/kg wet	5.00	50.0	74	50-140			
Endrin	33.8		µg/kg wet	8.00	50.0	68	50-120			
Endrin [2C]	34.8		µg/kg wet	8.00	50.0	70	50-120			
Endosulfan II	35.8		µg/kg wet	8.00	50.0	72	40-140			
Endosulfan II [2C]	38.0		µg/kg wet	8.00	50.0	76	40-140			
4,4'-DDD (p,p')	36.5		µg/kg wet	8.00	50.0	73	40-140			
4,4'-DDD (p,p') [2C]	37.1		µg/kg wet	8.00	50.0	74	40-140			
Endosulfan sulfate	32.7		µg/kg wet	8.00	50.0	65	50-120			
Endosulfan sulfate [2C]	34.1		µg/kg wet	8.00	50.0	68	50-120			
4,4'-DDT (p,p')	40.0		µg/kg wet	8.00	50.0	80	40-140			
4,4'-DDT (p,p') [2C]	36.6		µg/kg wet	8.00	50.0	73	40-140			
Methoxychlor	33.8		µg/kg wet	8.00	50.0	68	40-140			
Methoxychlor [2C]	32.5		µg/kg wet	8.00	50.0	65	40-140			
Endrin ketone	36.7		µg/kg wet	8.00	50.0	73	40-140			
Endrin ketone [2C]	39.7		µg/kg wet	8.00	50.0	79	40-140			
Endrin aldehyde	37.8		µg/kg wet	8.00	50.0	76	40-140			
Endrin aldehyde [2C]	33.5		µg/kg wet	8.00	50.0	67	40-140			
alpha-Chlordane	37.3		µg/kg wet	5.00	50.0	75	40-140			
alpha-Chlordane [2C]	37.7		µg/kg wet	5.00	50.0	75	40-140			
gamma-Chlordane	36.4		µg/kg wet	5.00	50.0	73	40-130			
gamma-Chlordane [2C]	37.0		µg/kg wet	5.00	50.0	74	40-130			
Alachlor	36.1		µg/kg wet	5.00	50.0	72	40-140			
Alachlor [2C]	36.7		µg/kg wet	5.00	50.0	73	40-140			
<i>Surrogate: 4,4-DB-Octafluorobiphenyl (Sr)</i>	11.1		µg/kg wet		20.0	55	30-150			
<i>Surrogate: 4,4-DB-Octafluorobiphenyl (Sr) [2C]</i>	11.0		µg/kg wet		20.0	55	30-150			
<i>Surrogate: Decachlorobiphenyl (Sr)</i>	11.5		µg/kg wet		20.0	57	30-150			
<i>Surrogate: Decachlorobiphenyl (Sr) [2C]</i>	15.4		µg/kg wet		20.0	77	30-150			
<u>LCS Dup (1005060-BSD1)</u>										
						<u>Prepared & Analyzed: 08-Mar-10</u>				
alpha-BHC	37.4		µg/kg wet	5.00	50.0	75	40-140	1	30	
alpha-BHC [2C]	36.5		µg/kg wet	5.00	50.0	73	40-140	0.5	30	
beta-BHC	37.9		µg/kg wet	5.00	50.0	76	40-140	0.2	30	

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Semivolatile Organic Compounds by GC - Quality Control

Analyte(s)	Result	Flag	Units	*RDL	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
Batch 1005060 - SW846 3545A										
<u>LCS Dup (1005060-BSD1)</u>										
<u>Prepared & Analyzed: 08-Mar-10</u>										
beta-BHC [2C]	39.5		µg/kg wet	5.00	50.0	79	40-140	0.9	30	
delta-BHC	34.0		µg/kg wet	5.00	50.0	68	40-140	0.6	30	
delta-BHC [2C]	33.9		µg/kg wet	5.00	50.0	68	40-140	0.9	30	
gamma-BHC (Lindane)	39.2		µg/kg wet	5.00	50.0	78	50-120	0.5	30	
gamma-BHC (Lindane) [2C]	38.7		µg/kg wet	5.00	50.0	77	50-120	0.2	30	
Heptachlor	39.5		µg/kg wet	5.00	50.0	79	40-140	0.1	30	
Heptachlor [2C]	37.8		µg/kg wet	5.00	50.0	76	40-140	1	30	
Aldrin	37.4		µg/kg wet	5.00	50.0	75	40-140	0.2	30	
Aldrin [2C]	36.8		µg/kg wet	5.00	50.0	74	40-140	0.7	30	
Heptachlor epoxide	37.6		µg/kg wet	5.00	50.0	75	50-140	0.4	30	
Heptachlor epoxide [2C]	36.7		µg/kg wet	5.00	50.0	73	50-140	0.7	30	
Endosulfan I	36.0		µg/kg wet	5.00	50.0	72	40-140	0.6	30	
Endosulfan I [2C]	37.0		µg/kg wet	5.00	50.0	74	40-140	1	30	
Dieldrin	36.8		µg/kg wet	5.00	50.0	74	40-130	0.1	30	
Dieldrin [2C]	37.5		µg/kg wet	5.00	50.0	75	40-130	2	30	
4,4'-DDE (p,p')	37.0		µg/kg wet	5.00	50.0	74	50-140	0.2	30	
4,4'-DDE (p,p') [2C]	37.4		µg/kg wet	5.00	50.0	75	50-140	2	30	
Endrin	33.7		µg/kg wet	8.00	50.0	67	50-120	0.09	30	
Endrin [2C]	35.4		µg/kg wet	8.00	50.0	71	50-120	2	30	
Endosulfan II	36.2		µg/kg wet	8.00	50.0	72	40-140	1	30	
Endosulfan II [2C]	38.7		µg/kg wet	8.00	50.0	77	40-140	2	30	
4,4'-DDD (p,p')	36.8		µg/kg wet	8.00	50.0	74	40-140	0.8	30	
4,4'-DDD (p,p') [2C]	37.9		µg/kg wet	8.00	50.0	76	40-140	2	30	
Endosulfan sulfate	33.1		µg/kg wet	8.00	50.0	66	50-120	1	30	
Endosulfan sulfate [2C]	35.0		µg/kg wet	8.00	50.0	70	50-120	3	30	
4,4'-DDT (p,p')	41.1		µg/kg wet	8.00	50.0	82	40-140	3	30	
4,4'-DDT (p,p') [2C]	37.6		µg/kg wet	8.00	50.0	75	40-140	3	30	
Methoxychlor	34.9		µg/kg wet	8.00	50.0	70	40-140	3	30	
Methoxychlor [2C]	33.7		µg/kg wet	8.00	50.0	67	40-140	4	30	
Endrin ketone	37.8		µg/kg wet	8.00	50.0	76	40-140	3	30	
Endrin ketone [2C]	40.9		µg/kg wet	8.00	50.0	82	40-140	3	30	
Endrin aldehyde	38.3		µg/kg wet	8.00	50.0	77	40-140	1	30	
Endrin aldehyde [2C]	33.5		µg/kg wet	8.00	50.0	67	40-140	0.1	30	
alpha-Chlordane	37.6		µg/kg wet	5.00	50.0	75	40-140	0.8	30	
alpha-Chlordane [2C]	38.3		µg/kg wet	5.00	50.0	77	40-140	2	30	
gamma-Chlordane	36.8		µg/kg wet	5.00	50.0	74	40-130	1	30	
gamma-Chlordane [2C]	37.4		µg/kg wet	5.00	50.0	75	40-130	1	30	
Alachlor	36.1		µg/kg wet	5.00	50.0	72	40-140	0.07	30	
Alachlor [2C]	37.1		µg/kg wet	5.00	50.0	74	40-140	0.9	30	
Surrogate: 4,4-DB-Octafluorobiphenyl (Sr)	11.0		µg/kg wet		20.0	55	30-150			
Surrogate: 4,4-DB-Octafluorobiphenyl (Sr) [2C]	11.0		µg/kg wet		20.0	55	30-150			
Surrogate: Decachlorobiphenyl (Sr)	12.0		µg/kg wet		20.0	60	30-150			
Surrogate: Decachlorobiphenyl (Sr) [2C]	16.0		µg/kg wet		20.0	80	30-150			
<u>Duplicate (1005060-DUP1)</u>										
<u>Source: SB08728-12</u> <u>Prepared & Analyzed: 08-Mar-10</u>										
alpha-BHC	BRL		µg/kg dry	5.74		BRL				30
alpha-BHC [2C]	BRL		µg/kg dry	5.74		BRL				30
beta-BHC	BRL		µg/kg dry	5.74		BRL				30
beta-BHC [2C]	BRL		µg/kg dry	5.74		BRL				30
delta-BHC	BRL		µg/kg dry	5.74		BRL				30
delta-BHC [2C]	BRL		µg/kg dry	5.74		BRL				30

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* Reportable Detection Limit

BRL = Below Reporting Limit

Page 16 of 24

Semivolatile Organic Compounds by GC - Quality Control

Analyte(s)	Result	Flag	Units	*RDL	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
Batch 1005060 - SW846 3545A										
Duplicate (1005060-DUP1)										
Source: SB08728-12										
Prepared & Analyzed: 08-Mar-10										
gamma-BHC (Lindane)	BRL		µg/kg dry	5.74		BRL				30
gamma-BHC (Lindane) [2C]	BRL		µg/kg dry	5.74		BRL				30
Heptachlor	BRL		µg/kg dry	5.74		BRL				30
Heptachlor [2C]	BRL		µg/kg dry	5.74		BRL				30
Aldrin	BRL		µg/kg dry	5.74		BRL				30
Aldrin [2C]	BRL		µg/kg dry	5.74		BRL				30
Heptachlor epoxide	BRL		µg/kg dry	5.74		BRL				30
Heptachlor epoxide [2C]	BRL		µg/kg dry	5.74		BRL				30
Endosulfan I	BRL		µg/kg dry	5.74		BRL				30
Endosulfan I [2C]	BRL		µg/kg dry	5.74		BRL				30
Dieldrin	BRL		µg/kg dry	5.74		BRL				30
Dieldrin [2C]	BRL		µg/kg dry	5.74		BRL				30
4,4'-DDE (p,p')	BRL		µg/kg dry	5.74		BRL				30
4,4'-DDE (p,p') [2C]	BRL		µg/kg dry	5.74		BRL				30
Endrin	BRL		µg/kg dry	9.18		BRL				30
Endrin [2C]	BRL		µg/kg dry	9.18		BRL				30
Endosulfan II	BRL		µg/kg dry	9.18		BRL				30
Endosulfan II [2C]	BRL		µg/kg dry	9.18		BRL				30
4,4'-DDD (p,p')	BRL		µg/kg dry	9.18		BRL				30
4,4'-DDD (p,p') [2C]	BRL		µg/kg dry	9.18		BRL				30
Endosulfan sulfate	BRL		µg/kg dry	9.18		BRL				30
Endosulfan sulfate [2C]	BRL		µg/kg dry	9.18		BRL				30
4,4'-DDT (p,p')	BRL		µg/kg dry	9.18		BRL				30
4,4'-DDT (p,p') [2C]	BRL		µg/kg dry	9.18		BRL				30
Methoxychlor	BRL		µg/kg dry	9.18		BRL				30
Methoxychlor [2C]	BRL		µg/kg dry	9.18		BRL				30
Endrin ketone	BRL		µg/kg dry	9.18		BRL				30
Endrin ketone [2C]	BRL		µg/kg dry	9.18		BRL				30
Endrin aldehyde	BRL		µg/kg dry	9.18		BRL				30
Endrin aldehyde [2C]	BRL		µg/kg dry	9.18		BRL				30
alpha-Chlordane	BRL		µg/kg dry	5.74		BRL				30
alpha-Chlordane [2C]	BRL		µg/kg dry	5.74		BRL				30
gamma-Chlordane	BRL		µg/kg dry	5.74		BRL				30
gamma-Chlordane [2C]	BRL		µg/kg dry	5.74		BRL				30
Toxaphene	BRL		µg/kg dry	115		BRL				30
Toxaphene [2C]	BRL		µg/kg dry	115		BRL				30
Chlordane	BRL		µg/kg dry	23.0		BRL				30
Chlordane [2C]	BRL		µg/kg dry	23.0		BRL				30
Alachlor	BRL		µg/kg dry	5.74		BRL				30
Alachlor [2C]	BRL		µg/kg dry	5.74		BRL				30
Surrogate: 4,4-DB-Octafluorobiphenyl (Sr)	9.52		µg/kg dry		23.0		41	30-150		
Surrogate: 4,4-DB-Octafluorobiphenyl (Sr) [2C]	9.37		µg/kg dry		23.0		41	30-150		
Surrogate: Decachlorobiphenyl (Sr)	10.7		µg/kg dry		23.0		47	30-150		
Surrogate: Decachlorobiphenyl (Sr) [2C]	14.2		µg/kg dry		23.0		62	30-150		
Matrix Spike (1005060-MS1)										
Source: SB08728-12										
Prepared: 08-Mar-10 Analyzed: 09-Mar-10										
alpha-BHC	38.7		µg/kg dry	5.69	56.9	BRL	68	30-150		
alpha-BHC [2C]	37.3		µg/kg dry	5.69	56.9	BRL	65	30-150		
beta-BHC	40.0		µg/kg dry	5.69	56.9	BRL	70	30-150		
beta-BHC [2C]	43.0		µg/kg dry	5.69	56.9	BRL	75	30-150		
delta-BHC	38.7		µg/kg dry	5.69	56.9	BRL	68	30-150		

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* Reportable Detection Limit BRL = Below Reporting Limit

Page 17 of 24

Semivolatile Organic Compounds by GC - Quality Control

Analyte(s)	Result	Flag	Units	*RDL	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
Batch 1005060 - SW846 3545A										
Matrix Spike (1005060-MS1)										
Source: SB08728-12 Prepared: 08-Mar-10 Analyzed: 09-Mar-10										
delta-BHC [2C]	35.8		µg/kg dry	5.69	56.9	BRL	63	30-150		
gamma-BHC (Lindane)	42.3		µg/kg dry	5.69	56.9	BRL	74	46-127		
gamma-BHC (Lindane) [2C]	39.9		µg/kg dry	5.69	56.9	BRL	70	46-127		
Heptachlor	42.0		µg/kg dry	5.69	56.9	BRL	74	35-130		
Heptachlor [2C]	37.8		µg/kg dry	5.69	56.9	BRL	66	35-130		
Aldrin	38.9		µg/kg dry	5.69	56.9	BRL	68	34-132		
Aldrin [2C]	36.7		µg/kg dry	5.69	56.9	BRL	64	34-132		
Heptachlor epoxide	38.9		µg/kg dry	5.69	56.9	BRL	68	30-150		
Heptachlor epoxide [2C]	38.0		µg/kg dry	5.69	56.9	BRL	67	30-150		
Endosulfan I	38.4		µg/kg dry	5.69	56.9	BRL	67	30-150		
Endosulfan I [2C]	37.9		µg/kg dry	5.69	56.9	BRL	67	30-150		
Dieldrin	39.3		µg/kg dry	5.69	56.9	BRL	69	31-134		
Dieldrin [2C]	37.7		µg/kg dry	5.69	56.9	BRL	66	31-134		
4,4'-DDE (p,p')	41.1		µg/kg dry	5.69	56.9	BRL	72	30-150		
4,4'-DDE (p,p') [2C]	39.4		µg/kg dry	5.69	56.9	BRL	69	30-150		
Endrin	35.7		µg/kg dry	9.11	56.9	BRL	63	42-139		
Endrin [2C]	37.1		µg/kg dry	9.11	56.9	BRL	65	42-139		
Endosulfan II	39.1		µg/kg dry	9.11	56.9	BRL	69	30-150		
Endosulfan II [2C]	40.3		µg/kg dry	9.11	56.9	BRL	71	30-150		
4,4'-DDD (p,p')	39.8		µg/kg dry	9.11	56.9	BRL	70	30-150		
4,4'-DDD (p,p') [2C]	37.6		µg/kg dry	9.11	56.9	BRL	66	30-150		
Endosulfan sulfate	35.4		µg/kg dry	9.11	56.9	BRL	62	30-150		
Endosulfan sulfate [2C]	35.0		µg/kg dry	9.11	56.9	BRL	61	30-150		
4,4'-DDT (p,p')	45.3		µg/kg dry	9.11	56.9	BRL	80	23-134		
4,4'-DDT (p,p') [2C]	41.7		µg/kg dry	9.11	56.9	BRL	73	23-134		
Methoxychlor	39.7		µg/kg dry	9.11	56.9	BRL	70	30-150		
Methoxychlor [2C]	34.5		µg/kg dry	9.11	56.9	BRL	61	30-150		
Endrin ketone	39.8		µg/kg dry	9.11	56.9	BRL	70	30-150		
Endrin ketone [2C]	39.3		µg/kg dry	9.11	56.9	BRL	69	30-150		
Endrin aldehyde	41.5		µg/kg dry	9.11	56.9	BRL	73	30-150		
Endrin aldehyde [2C]	36.6		µg/kg dry	9.11	56.9	BRL	64	30-150		
alpha-Chlordane	39.1		µg/kg dry	5.69	56.9	BRL	69	30-150		
alpha-Chlordane [2C]	39.5		µg/kg dry	5.69	56.9	BRL	69	30-150		
gamma-Chlordane	37.9		µg/kg dry	5.69	56.9	BRL	67	30-150		
gamma-Chlordane [2C]	38.3		µg/kg dry	5.69	56.9	BRL	67	30-150		
Alachlor	38.2		µg/kg dry	5.69	56.9	BRL	67	30-150		
Alachlor [2C]	49.9		µg/kg dry	5.69	56.9	BRL	88	30-150		
Surrogate: 4,4-DB-Octafluorobiphenyl (Sr)	11.0		µg/kg dry		22.8		48	30-150		
Surrogate: 4,4-DB-Octafluorobiphenyl (Sr) [2C]	11.0		µg/kg dry		22.8		48	30-150		
Surrogate: Decachlorobiphenyl (Sr)	14.1		µg/kg dry		22.8		62	30-150		
Surrogate: Decachlorobiphenyl (Sr) [2C]	17.3		µg/kg dry		22.8		76	30-150		
Matrix Spike Dup (1005060-MSD1)										
Source: SB08728-12 Prepared: 08-Mar-10 Analyzed: 09-Mar-10										
alpha-BHC	34.7		µg/kg dry	5.99	59.9	BRL	58	30-150	16	30
alpha-BHC [2C]	31.4		µg/kg dry	5.99	59.9	BRL	52	30-150	22	30
beta-BHC	35.5		µg/kg dry	5.99	59.9	BRL	59	30-150	17	30
beta-BHC [2C]	74.6	QR2	µg/kg dry	5.99	59.9	BRL	125	30-150	49	30
delta-BHC	34.3		µg/kg dry	5.99	59.9	BRL	57	30-150	17	30
delta-BHC [2C]	30.6		µg/kg dry	5.99	59.9	BRL	51	30-150	21	30
gamma-BHC (Lindane)	38.1		µg/kg dry	5.99	59.9	BRL	64	46-127	16	30
gamma-BHC (Lindane) [2C]	34.0		µg/kg dry	5.99	59.9	BRL	57	46-127	21	30

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* Reportable Detection Limit

BRL = Below Reporting Limit

Page 18 of 24

Semivolatile Organic Compounds by GC - Quality Control

Analyte(s)	Result	Flag	Units	*RDL	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
Batch 1005060 - SW846 3545A										
Matrix Spike Dup (1005060-MSD1)										
Source: SB08728-12 Prepared: 08-Mar-10 Analyzed: 09-Mar-10										
Heptachlor	34.9		µg/kg dry	5.99	59.9	BRL	58	35-130	23	30
Heptachlor [2C]	30.1		µg/kg dry	5.99	59.9	BRL	50	35-130	27	30
Aldrin	32.5		µg/kg dry	5.99	59.9	BRL	54	34-132	23	30
Aldrin [2C]	28.9		µg/kg dry	5.99	59.9	BRL	48	34-132	29	30
Heptachlor epoxide	33.8		µg/kg dry	5.99	59.9	BRL	56	30-150	19	30
Heptachlor epoxide [2C]	31.1		µg/kg dry	5.99	59.9	BRL	52	30-150	25	30
Endosulfan I	33.4		µg/kg dry	5.99	59.9	BRL	56	30-150	19	30
Endosulfan I [2C]	30.5		µg/kg dry	5.99	59.9	BRL	51	30-150	27	30
Dieldrin	33.8		µg/kg dry	5.99	59.9	BRL	56	31-134	20	30
Dieldrin [2C]	30.9		µg/kg dry	5.99	59.9	BRL	52	31-134	25	30
4,4'-DDE (p,p')	34.7		µg/kg dry	5.99	59.9	BRL	58	30-150	22	30
4,4'-DDE (p,p') [2C]	31.2		µg/kg dry	5.99	59.9	BRL	52	30-150	28	30
Endrin	31.2		µg/kg dry	9.59	59.9	BRL	52	42-139	18	30
Endrin [2C]	30.7		µg/kg dry	9.59	59.9	BRL	51	42-139	24	30
Endosulfan II	34.2		µg/kg dry	9.59	59.9	BRL	57	30-150	18	30
Endosulfan II [2C]	33.1		µg/kg dry	9.59	59.9	BRL	55	30-150	24	30
4,4'-DDD (p,p')	32.7		µg/kg dry	9.59	59.9	BRL	55	30-150	24	30
4,4'-DDD (p,p') [2C]	29.7		µg/kg dry	9.59	59.9	BRL	50	30-150	28	30
Endosulfan sulfate	31.2		µg/kg dry	9.59	59.9	BRL	52	30-150	18	30
Endosulfan sulfate [2C]	29.0		µg/kg dry	9.59	59.9	BRL	48	30-150	24	30
4,4'-DDT (p,p')	38.4		µg/kg dry	9.59	59.9	BRL	64	23-134	22	30
4,4'-DDT (p,p') [2C]	34.2		µg/kg dry	9.59	59.9	BRL	57	23-134	25	30
Methoxychlor	37.4		µg/kg dry	9.59	59.9	BRL	62	30-150	11	30
Methoxychlor [2C]	28.7		µg/kg dry	9.59	59.9	BRL	48	30-150	23	30
Endrin ketone	35.3		µg/kg dry	9.59	59.9	BRL	59	30-150	17	30
Endrin ketone [2C]	34.8		µg/kg dry	9.59	59.9	BRL	58	30-150	17	30
Endrin aldehyde	37.2		µg/kg dry	9.59	59.9	BRL	62	30-150	16	30
Endrin aldehyde [2C]	29.6		µg/kg dry	9.59	59.9	BRL	49	30-150	26	30
alpha-Chlordane	33.3		µg/kg dry	5.99	59.9	BRL	56	30-150	21	30
alpha-Chlordane [2C]	31.5		µg/kg dry	5.99	59.9	BRL	53	30-150	27	30
gamma-Chlordane	32.3		µg/kg dry	5.99	59.9	BRL	54	30-150	21	30
gamma-Chlordane [2C]	30.7		µg/kg dry	5.99	59.9	BRL	51	30-150	27	30
Alachlor	36.9		µg/kg dry	5.99	59.9	BRL	62	30-150	9	30
Alachlor [2C]	35.9	QR2	µg/kg dry	5.99	59.9	BRL	60	30-150	38	30
Surrogate: 4,4-DB-Octafluorobiphenyl (Sr)	10.1		µg/kg dry		24.0		42	30-150		
Surrogate: 4,4-DB-Octafluorobiphenyl (Sr) [2C]	11.5		µg/kg dry		24.0		48	30-150		
Surrogate: Decachlorobiphenyl (Sr)	12.3		µg/kg dry		24.0		51	30-150		
Surrogate: Decachlorobiphenyl (Sr) [2C]	14.9		µg/kg dry		24.0		62	30-150		

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Total Metals by EPA 6000/7000 Series Methods - Quality Control

Analyte(s)	Result	Flag	Units	*RDL	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
Batch 1004958 - SW846 3050B										
<u>Blank (1004958-BLK1)</u>										
Arsenic	BRL		mg/kg wet	1.42						
<u>Reference (1004958-SRM1)</u>										
Arsenic	44.5		mg/kg wet	1.50	44.5	100	78.1-122.3			
<u>Reference (1004958-SRM2)</u>										
Arsenic	45.7		mg/kg wet	1.50	44.3	103	78.1-122.3			

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* Reportable Detection Limit BRL = Below Reporting Limit

Page 20 of 24

General Chemistry Parameters - Quality Control

Analyte(s)	Result	Flag	Units	*RDL	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
Batch 1005099 - General Preparation										
Duplicate (1005099-DUP1)					Source: SB08728-10		Prepared & Analyzed: 08-Mar-10			
% Solids	79.3		%			84.1			6	20

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Page 21 of 24

Semivolatile Organic Compounds by GC - Pesticide Breakdown Report

Analyte(s)	Column	% Breakdown	Limit
Batch S001947			
<u>Performance Mix (S001947-PEM1)</u>			
4,4'-DDT (p,p')	1	4.8	15.0
Endrin	1	6.0	15.0
4,4'-DDT (p,p')	2	5.3	15.0
Endrin	2	7.3	15.0
<u>Performance Mix (S001947-PEM2)</u>			
4,4'-DDT (p,p')	1	6.5	15.0
Endrin	1	7.3	15.0
4,4'-DDT (p,p')	2	9.7	15.0
Endrin	2	9.7	15.0
Batch S001972			
<u>Performance Mix (S001972-PEM1)</u>			
4,4'-DDT (p,p')	1	5.2	15.0
Endrin	1	6.1	15.0
4,4'-DDT (p,p')	2	6.3	15.0
Endrin	2	7.4	15.0

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* Reportable Detection Limit

BRL = Below Reporting Limit

Page 22 of 24

Notes and Definitions

DC1	The analyte result for the confirmation column was outside of the acceptance limits. The result from the primary column was used. The analyte was not detected in the associated samples.
QR2	The RPD result exceeded the QC control limits; however, both percent recoveries were acceptable. Sample results for the QC batch were accepted based on percent recoveries and completeness of QC data.
BRL	Below Reporting Limit - Analyte NOT DETECTED at or above the reporting limit
dry	Sample results reported on a dry weight basis
NR	Not Reported
RPD	Relative Percent Difference

A plus sign (+) in the Method Reference column indicates the method is not accredited by NELAC.

Laboratory Control Sample (LCS): A known matrix spiked with compound(s) representative of the target analytes, which is used to document laboratory performance.

Matrix Duplicate: An intra-laboratory split sample which is used to document the precision of a method in a given sample matrix.

Matrix Spike: An aliquot of a sample spiked with a known concentration of target analyte(s). The spiking occurs prior to sample preparation and analysis. A matrix spike is used to document the bias of a method in a given sample matrix.

Method Blank: An analyte-free matrix to which all reagents are added in the same volumes or proportions as used in sample processing. The method blank should be carried through the complete sample preparation and analytical procedure. The method blank is used to document contamination resulting from the analytical process.

Method Detection Limit (MDL): The minimum concentration of a substance that can be measured and reported with 99% confidence that the analyte concentration is greater than zero and is determined from analysis of a sample in a given matrix type containing the analyte.

Reportable Detection Limit (RDL): The lowest concentration that can be reliably achieved within specified limits of precision and accuracy during routine laboratory operating conditions. For many analytes the RDL analyte concentration is selected as the lowest non-zero standard in the calibration curve. While the RDL is approximately 5 to 10 times the MDL, the RDL for each sample takes into account the sample volume/weight, extract/digestate volume, cleanup procedures and, if applicable, dry weight correction. Sample RDLs are highly matrix-dependent.

Surrogate: An organic compound which is similar to the target analyte(s) in chemical composition and behavior in the analytical process, but which is not normally found in environmental samples. These compounds are spiked into all blanks, standards, and samples prior to analysis. Percent recoveries are calculated for each surrogate.

Validated by:
Hanibal C. Tayeh, Ph.D.

MassDEP Analytical Protocol Certification Form

Laboratory Name: Spectrum Analytical, Inc.		Project #: 05-213212			
Project Location: 183 Turnpike Rd - Westborough, MA		RTN:			
This form provides certifications for the following data set:		SB08728-01 through SB08728-14			
Matrices: Soil					
CAM Protocol					
8260 VOC CAM II A	7470/7471 Hg CAM III B	MassDEP VPH CAM IV A	<input checked="" type="checkbox"/> 8081 Pesticides CAM V B	7196 Hex Cr CAM VI B	MassDEP APH CAM IX A
8270 SVOC CAM II B	7010 Metals CAM III C	MassDEP EPH CAM IV B	8151 Herbicides CAM V C	8330 Explosives CAM VIII A	TO-15 VOC CAM IX B
<input checked="" type="checkbox"/> 6010 Metals CAM III A	6020 Metals CAM III D	8082 PCB CAM V A	9014 Total Cyanide/PAC CAM VI A	6860 Perchlorate CAM VIII B	
<i>Affirmative responses to questions A through F are required for "Presumptive Certainty" status</i>					
A	Were all samples received in a condition consistent with those described on the Chain of Custody, properly preserved (including temperature) in the field or laboratory, and prepared/analyzed within method holding times?			<input checked="" type="checkbox"/> Yes	No
B	Were the analytical method(s) and all associated QC requirements specified in the selected CAM protocol(s) followed?			<input checked="" type="checkbox"/> Yes	No
C	Were all required corrective actions and analytical response actions specified in the selected CAM protocol(s) implemented for all identified performance standard non-conformances?			<input checked="" type="checkbox"/> Yes	No
D	Does the laboratory report comply with all the reporting requirements specified in CAM VII A, "Quality Assurance and Quality Control Guidelines for the Acquisition and Reporting of Analytical Data"?			<input checked="" type="checkbox"/> Yes	No
E	a. VPH, EPH, and APH Methods only: Was each method conducted without significant modification(s)? b. APH and TO-15 Methods only: Was the complete analyte list reported for each method?			Yes	No
F	Were all applicable CAM protocol QC and performance standard non-conformances identified and evaluated in a laboratory narrative (including all "No" responses to questions A through E)?			<input checked="" type="checkbox"/> Yes	No
<i>Responses to questions G, H and I below are required for "Presumptive Certainty" status</i>					
G	Were the reporting limits at or below all CAM reporting limits specified in the selected CAM protocol(s)?			Yes	<input checked="" type="checkbox"/> No
<i>Data User Note: Data that achieve "Presumptive Certainty" status may not necessarily meet the data usability and representativeness requirements described in 310 CMR 40. 1056 (2)(k) and WSC-07-350.</i>					
H	Were all QC performance standards specified in the CAM protocol(s) achieved?			Yes	<input checked="" type="checkbox"/> No
I	Were results reported for the complete analyte list specified in the selected CAM protocol(s)?			Yes	<input checked="" type="checkbox"/> No
<i>All negative responses are addressed in a case narrative on the cover page of this report.</i>					
<i>I, the undersigned, attest under the pains and penalties of perjury that, based upon my personal inquiry of those responsible for obtaining the information, the material contained in this analytical report is, to the best of my knowledge and belief, accurate and complete.</i>					
					
Hanibal C. Tayeh, Ph.D. President/Laboratory Director Date: 3/9/2010					

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SPECTRUM ANALYTICAL, INC.

Farothing

HANIBAL TECHNOLOGY

Farothing

CHAIN OF CUSTODY RECORD

Report To: ECS evergreen

10 STATE St.

Woburn MA

01801

Project Mgr.: Tonie Smeth1=Na₂SO₃ 2=HCl 3=H₂SO₄ 4=HNO₃ 5=NaOH 6=Ascorbic Acid7=CH₃OH 8=NaHSO₄ 9=None 10=

DW=Drinking Water GW=Groundwater WW=Wastewater

O=Oil SW=Surface Water SO=Soil SL=Sludge A=Air

X1= X2= X3= X4=

Invoice To: ECS Agawam
 Page 1 of 2
 P.O. No.: RQN: Egyttes
 Project No.: 05-21322
 Site Name: I-93 Turnpike Road
 Location: WEST Brookline State: MA
 Sampler(s): Eric Klatz

G=Grab C=Composite

Lab Id:	Sample Id:	Date:	Time:	Type	Matrix	Containers:	Analyses:	QA Reporting Notes: (check if needed)
05728-01	GP-1 (0-1)	3/3/200	0830	G	Soil	1	ARSENIC	<input checked="" type="checkbox"/> Standard TAT - 7 to 10 business days <input checked="" type="checkbox"/> Rush TAT - Date Needed: <u>3/9/10</u> All TATs subject to laboratory approval. Min. 24-hour notification needed for rushes. Samples disposed of after 60 days unless otherwise instructed.
-02	GP-2 (0-1)		0845	G	Soil	1	X	
-03	GP-3 (2-4)		0855	G	Soil	1	X	
-04	GP-4 (0-1)		0905	G	Soil	1	X	
-05	GP-5 (0-1)		0920	G	Soil	1	X	
-06	GP-6 (0-1)		0935	G	Soil	1	X	
-07	GP-7 (2-4)		0945	G	Soil	1	X	
-08	GP-8 (0-1)		0955	G	Soil	1	X	
-09	GP-9 (0-1)		1005	G	Soil	1	X	
-10	GP-10 (0-1)		1010	G	Soil	1	X	

Relinquished by: Jamie LufordReceived by: Eric KlatzDate: 3/4/10Time: 10:37

Fax results when available to ()

E-mail to Jamie@evergreeninc.com

EDD Format

Condition upon receipt: Iced AmbientTemp 41.7

Report Date:
15-Mar-10 16:32

- Final Report
 Re-Issued Report
 Revised Report



SPECTRUM ANALYTICAL, INC.
Featuring
HANIBAL TECHNOLOGY
Laboratory Report

Environmental Compliance Services
10 State Street
Woburn, MA 01801
Attn: Jamie Smith

Project: Westborough, MA
Project #: 05-213212

<u>Laboratory ID</u>	<u>Client Sample ID</u>	<u>Matrix</u>	<u>Date Sampled</u>	<u>Date Received</u>
SB09000-01	GP-2 (2-4)	Soil	03-Mar-10 08:45	10-Mar-10 19:00
SB09000-02	GP-4 (2-4)	Soil	03-Mar-10 09:05	10-Mar-10 19:00
SB09000-03	GP-6 (2-4)	Soil	03-Mar-10 09:35	10-Mar-10 19:00
SB09000-04	GP-14 (2-4)	Soil	03-Mar-10 10:30	10-Mar-10 19:00
SB09000-05	GP-15 (0-1)	Soil	03-Mar-10 10:40	10-Mar-10 19:00
SB09000-06	GP-15 (2-4)	Soil	03-Mar-10 10:40	10-Mar-10 19:00
SB09000-07	GP-16 (0-1)	Soil	03-Mar-10 10:50	10-Mar-10 19:00
SB09000-08	GP-16 (2-4)	Soil	03-Mar-10 10:50	10-Mar-10 19:00
SB09000-09	GP-18 (0-1)	Soil	03-Mar-10 11:20	10-Mar-10 19:00
SB09000-10	GP-18 (2-4)	Soil	03-Mar-10 11:20	10-Mar-10 19:00
SB09000-11	GP-17 (0-1)	Soil	03-Mar-10 11:05	10-Mar-10 19:00
SB09000-12	GP-17 (2-4)	Soil	03-Mar-10 11:05	10-Mar-10 19:00
SB09000-13	GP-17 (4-6)	Soil	03-Mar-10 11:05	10-Mar-10 19:00

I attest that the information contained within the report has been reviewed for accuracy and checked against the quality control requirements for each method. These results relate only to the sample(s) as received.

All applicable NELAC requirements have been met.

Massachusetts # M-MA138/MA1110

Connecticut # PH-0777

Florida # E87600/E87936

Maine # MA138

New Hampshire # 2538

New Jersey # MA011/MA012

New York # 11393/11840

Pennsylvania # 68-04426/68-02924

Rhode Island # 98

USDA # S-51435

Vermont # VT-11393



Authorized by:

A handwritten signature in black ink, appearing to read "HANIBAL C. TAYEH".

Hanibal C. Tayeh, Ph.D.
President/Laboratory Director

Technical Reviewer's Initial:

A handwritten initial "N" enclosed in a small circle.

Spectrum Analytical holds certification in the State of Massachusetts for the analytes as indicated with an X in the "Cert." column within this report. Please note that the State of Massachusetts does not offer certification for all analytes.

Please note that this report contains 10 pages of analytical data plus Chain of Custody document(s). When the Laboratory Report is indicated as revised, this report supersedes any previously dated reports for the laboratory ID(s) referenced above. Where this report identifies subcontracted analyses, copies of the subcontractor's test report are available upon request. This report may not be reproduced, except in full, without written approval from Spectrum Analytical, Inc.

Spectrum Analytical, Inc. is a NELAC accredited laboratory organization and meets NELAC testing standards. Use of the NELAC logo however does not insure that Spectrum is currently accredited for the specific method or analyte indicated. Please refer to our "Quality" web page at www.spectrum-analytical.com for a full listing of our current certifications and fields of accreditation. States in which Spectrum Analytical, Inc. holds NELAC certification are New York, New Hampshire, New Jersey and Florida. All analytical work for Volatile Organic and Air analysis are transferred to and conducted at our 830 Silver Street location (NY-11840, FL-E87936 and NJ-MA012).

Please contact the Laboratory or Technical Director at 800-789-9115 with any questions regarding the data contained in this laboratory report.

CASE NARRATIVE:

The sample temperature upon receipt by Spectrum Analytical courier was recorded as 4.7 degrees Celsius. The condition of these samples was further noted as refrigerated. The samples were transported on ice to the laboratory facility and the temperature was recorded at 1.8 degrees Celsius upon receipt at the laboratory. Please refer to the Chain of Custody for details specific to sample receipt times.

An infrared thermometer with a tolerance of +/- 2.0 degrees Celsius was used immediately upon receipt of the samples.

If a Matrix Spike (MS), Matrix Spike Duplicate (MSD) or Duplicate (DUP) was not requested on the Chain of Custody, method criteria may have been fulfilled with a source sample not of this Sample Delivery Group.

MADEP has published a list of analytical methods (CAM) which provides a series of recommended protocols for the acquisition, analysis and reporting of analytical data in support of MCP decisions. "Presumptive Certainty" can be established only for those methods published by the MADEP in the MCP CAM. The compounds and/or elements reported were specifically requested by the client on the Chain of Custody and in some cases may not include the full analyte list as defined in the method.

According to WSC-CAM 5/2009 Rev.1, Table 11 A-1, recovery for some VOC analytes have been deemed potentially difficult. Although they may still be within the recommended recovery range, a range has been set based on historical control limits.

Some target analytes which are not listed as exceptions in the Summary of CAM Reporting Limits may exceed the recommended RL based on sample initial volume or weight provided, % moisture content, or responsiveness of a particular analyte to purge and trap instrumentation.

<u>Sample Identification</u>		<u>Client Project #</u>		<u>Matrix</u>		<u>Collection Date/Time</u>			<u>Received</u>			
GP-2 (2-4)	SB09000-01	05-213212		Soil		03-Mar-10 08:45			10-Mar-10			
<u>CAS No.</u>	<u>Analyte(s)</u>	<u>Result</u>	<u>Flag</u>	<u>Units</u>	<u>*RDL</u>	<u>Dilution</u>	<u>Method Ref.</u>	<u>Prepared</u>	<u>Analyzed</u>	<u>Analyst</u>	<u>Batch</u>	<u>Cert.</u>
Total Metals by EPA 6000/7000 Series Methods												
7440-38-2	Arsenic	8.63		mg/kg dry	1.54	1	SW846 6010B	11-Mar-10	12-Mar-10	LR	1005433	
General Chemistry Parameters												
	% Solids	89.8		%		1	SM2540 G Mod.	12-Mar-10	12-Mar-10	BD	1005499	
<u>Sample Identification</u>		<u>Client Project #</u>		<u>Matrix</u>		<u>Collection Date/Time</u>			<u>Received</u>			
GP-4 (2-4)	SB09000-02	05-213212		Soil		03-Mar-10 09:05			10-Mar-10			
<u>CAS No.</u>	<u>Analyte(s)</u>	<u>Result</u>	<u>Flag</u>	<u>Units</u>	<u>*RDL</u>	<u>Dilution</u>	<u>Method Ref.</u>	<u>Prepared</u>	<u>Analyzed</u>	<u>Analyst</u>	<u>Batch</u>	<u>Cert.</u>
Total Metals by EPA 6000/7000 Series Methods												
7440-38-2	Arsenic	7.28		mg/kg dry	1.69	1	SW846 6010B	11-Mar-10	12-Mar-10	LR	1005433	
General Chemistry Parameters												
	% Solids	85.8		%		1	SM2540 G Mod.	12-Mar-10	12-Mar-10	BD	1005499	
<u>Sample Identification</u>		<u>Client Project #</u>		<u>Matrix</u>		<u>Collection Date/Time</u>			<u>Received</u>			
GP-6 (2-4)	SB09000-03	05-213212		Soil		03-Mar-10 09:35			10-Mar-10			
<u>CAS No.</u>	<u>Analyte(s)</u>	<u>Result</u>	<u>Flag</u>	<u>Units</u>	<u>*RDL</u>	<u>Dilution</u>	<u>Method Ref.</u>	<u>Prepared</u>	<u>Analyzed</u>	<u>Analyst</u>	<u>Batch</u>	<u>Cert.</u>
Total Metals by EPA 6000/7000 Series Methods												
7440-38-2	Arsenic	101		mg/kg dry	1.71	1	SW846 6010B	11-Mar-10	12-Mar-10	LR	1005433	
General Chemistry Parameters												
	% Solids	87.8		%		1	SM2540 G Mod.	12-Mar-10	12-Mar-10	BD	1005499	
<u>Sample Identification</u>		<u>Client Project #</u>		<u>Matrix</u>		<u>Collection Date/Time</u>			<u>Received</u>			
GP-14 (2-4)	SB09000-04	05-213212		Soil		03-Mar-10 10:30			10-Mar-10			
<u>CAS No.</u>	<u>Analyte(s)</u>	<u>Result</u>	<u>Flag</u>	<u>Units</u>	<u>*RDL</u>	<u>Dilution</u>	<u>Method Ref.</u>	<u>Prepared</u>	<u>Analyzed</u>	<u>Analyst</u>	<u>Batch</u>	<u>Cert.</u>
Total Metals by EPA 6000/7000 Series Methods												
7440-38-2	Arsenic	10.1		mg/kg dry	1.62	1	SW846 6010B	11-Mar-10	12-Mar-10	LR	1005433	
General Chemistry Parameters												
	% Solids	78.5		%		1	SM2540 G Mod.	12-Mar-10	12-Mar-10	BD	1005500	
<u>Sample Identification</u>		<u>Client Project #</u>		<u>Matrix</u>		<u>Collection Date/Time</u>			<u>Received</u>			
GP-15 (0-1)	SB09000-05	05-213212		Soil		03-Mar-10 10:40			10-Mar-10			
<u>CAS No.</u>	<u>Analyte(s)</u>	<u>Result</u>	<u>Flag</u>	<u>Units</u>	<u>*RDL</u>	<u>Dilution</u>	<u>Method Ref.</u>	<u>Prepared</u>	<u>Analyzed</u>	<u>Analyst</u>	<u>Batch</u>	<u>Cert.</u>
Total Metals by EPA 6000/7000 Series Methods												
7440-38-2	Arsenic	9.38		mg/kg dry	1.97	1	SW846 6010B	11-Mar-10	12-Mar-10	LR	1005433	
General Chemistry Parameters												
	% Solids	72.5		%		1	SM2540 G Mod.	12-Mar-10	12-Mar-10	BD	1005500	

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* Reportable Detection Limit

BRL = Below Reporting Limit

Page 4 of 10

<u>Sample Identification</u>		<u>Client Project #</u>		<u>Matrix</u>		<u>Collection Date/Time</u>			<u>Received</u>			
GP-15 (2-4)	SB09000-06	05-213212		Soil		03-Mar-10 10:40			10-Mar-10			
<u>CAS No.</u>	<u>Analyte(s)</u>	<u>Result</u>	<u>Flag</u>	<u>Units</u>	<u>*RDL</u>	<u>Dilution</u>	<u>Method Ref.</u>	<u>Prepared</u>	<u>Analyzed</u>	<u>Analyst</u>	<u>Batch</u>	<u>Cert.</u>
Total Metals by EPA 6000/7000 Series Methods												
7440-38-2	Arsenic	7.79		mg/kg dry	1.64	1	SW846 6010B	11-Mar-10	12-Mar-10	LR	1005433	
General Chemistry Parameters												
	% Solids	76.8		%		1	SM2540 G Mod.	12-Mar-10	12-Mar-10	BD	1005500	
 Sample Identification												
GP-16 (0-1)	SB09000-07	<u>Client Project #</u>		<u>Matrix</u>		<u>Collection Date/Time</u>			<u>Received</u>			
		05-213212		Soil		03-Mar-10 10:50			10-Mar-10			
<u>CAS No.</u>	<u>Analyte(s)</u>	<u>Result</u>	<u>Flag</u>	<u>Units</u>	<u>*RDL</u>	<u>Dilution</u>	<u>Method Ref.</u>	<u>Prepared</u>	<u>Analyzed</u>	<u>Analyst</u>	<u>Batch</u>	<u>Cert.</u>
Total Metals by EPA 6000/7000 Series Methods												
7440-38-2	Arsenic	10.3		mg/kg dry	1.68	1	SW846 6010B	11-Mar-10	12-Mar-10	LR	1005433	
General Chemistry Parameters												
	% Solids	88.1		%		1	SM2540 G Mod.	12-Mar-10	12-Mar-10	BD	1005500	
 Sample Identification												
GP-16 (2-4)	SB09000-08	<u>Client Project #</u>		<u>Matrix</u>		<u>Collection Date/Time</u>			<u>Received</u>			
		05-213212		Soil		03-Mar-10 10:50			10-Mar-10			
<u>CAS No.</u>	<u>Analyte(s)</u>	<u>Result</u>	<u>Flag</u>	<u>Units</u>	<u>*RDL</u>	<u>Dilution</u>	<u>Method Ref.</u>	<u>Prepared</u>	<u>Analyzed</u>	<u>Analyst</u>	<u>Batch</u>	<u>Cert.</u>
Total Metals by EPA 6000/7000 Series Methods												
7440-38-2	Arsenic	9.98		mg/kg dry	1.46	1	SW846 6010B	11-Mar-10	12-Mar-10	LR	1005433	
General Chemistry Parameters												
	% Solids	89.7		%		1	SM2540 G Mod.	12-Mar-10	12-Mar-10	BD	1005500	
 Sample Identification												
GP-18 (0-1)	SB09000-09	<u>Client Project #</u>		<u>Matrix</u>		<u>Collection Date/Time</u>			<u>Received</u>			
		05-213212		Soil		03-Mar-10 11:20			10-Mar-10			
<u>CAS No.</u>	<u>Analyte(s)</u>	<u>Result</u>	<u>Flag</u>	<u>Units</u>	<u>*RDL</u>	<u>Dilution</u>	<u>Method Ref.</u>	<u>Prepared</u>	<u>Analyzed</u>	<u>Analyst</u>	<u>Batch</u>	<u>Cert.</u>
Total Metals by EPA 6000/7000 Series Methods												
7440-38-2	Arsenic	51.5		mg/kg dry	1.59	1	SW846 6010B	11-Mar-10	12-Mar-10	LR	1005433	
General Chemistry Parameters												
	% Solids	92.1		%		1	SM2540 G Mod.	12-Mar-10	12-Mar-10	BD	1005500	
 Sample Identification												
GP-18 (2-4)	SB09000-10	<u>Client Project #</u>		<u>Matrix</u>		<u>Collection Date/Time</u>			<u>Received</u>			
		05-213212		Soil		03-Mar-10 11:20			10-Mar-10			
<u>CAS No.</u>	<u>Analyte(s)</u>	<u>Result</u>	<u>Flag</u>	<u>Units</u>	<u>*RDL</u>	<u>Dilution</u>	<u>Method Ref.</u>	<u>Prepared</u>	<u>Analyzed</u>	<u>Analyst</u>	<u>Batch</u>	<u>Cert.</u>
Total Metals by EPA 6000/7000 Series Methods												
7440-38-2	Arsenic	21.2		mg/kg dry	1.47	1	SW846 6010B	11-Mar-10	12-Mar-10	LR	1005433	
General Chemistry Parameters												
	% Solids	92.5		%		1	SM2540 G Mod.	12-Mar-10	12-Mar-10	BD	1005500	

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<u>Sample Identification</u>			<u>Client Project #</u>		<u>Matrix</u>		<u>Collection Date/Time</u>			<u>Received</u>		
GP-17 (0-1)			05-213212		Soil		03-Mar-10 11:05			10-Mar-10		
SB09000-11												
CAS No.	Analyte(s)	Result	Flag	Units	*RDL	Dilution	Method Ref.	Prepared	Analyzed	Analyst	Batch	Cert.
Total Metals by EPA 6000/7000 Series Methods												
7440-38-2	Arsenic	24.6		mg/kg dry	1.49	1	SW846 6010B	11-Mar-10	12-Mar-10	LR	1005433	
7440-47-3	Chromium	25.9		mg/kg dry	0.991	1	"	"	"	"	"	
General Chemistry Parameters												
	% Solids	94.0		%		1	SM2540 G Mod.	12-Mar-10	12-Mar-10	BD	1005500	
<hr/>												
<u>Sample Identification</u>			<u>Client Project #</u>		<u>Matrix</u>		<u>Collection Date/Time</u>			<u>Received</u>		
GP-17 (2-4)			05-213212		Soil		03-Mar-10 11:05			10-Mar-10		
SB09000-12												
CAS No.	Analyte(s)	Result	Flag	Units	*RDL	Dilution	Method Ref.	Prepared	Analyzed	Analyst	Batch	Cert.
Total Metals by EPA 6000/7000 Series Methods												
7440-38-2	Arsenic	16.8		mg/kg dry	1.43	1	SW846 6010B	11-Mar-10	12-Mar-10	LR	1005433	
7440-47-3	Chromium	25.7		mg/kg dry	0.951	1	"	"	"	"	"	
General Chemistry Parameters												
	% Solids	92.5		%		1	SM2540 G Mod.	12-Mar-10	12-Mar-10	BD	1005500	
<hr/>												
<u>Sample Identification</u>			<u>Client Project #</u>		<u>Matrix</u>		<u>Collection Date/Time</u>			<u>Received</u>		
GP-17 (4-6)			05-213212		Soil		03-Mar-10 11:05			10-Mar-10		
SB09000-13												
CAS No.	Analyte(s)	Result	Flag	Units	*RDL	Dilution	Method Ref.	Prepared	Analyzed	Analyst	Batch	Cert.
Total Metals by EPA 6000/7000 Series Methods												
7440-38-2	Arsenic	15.1		mg/kg dry	1.40	1	SW846 6010B	11-Mar-10	12-Mar-10	LR	1005433	
7440-47-3	Chromium	28.5		mg/kg dry	0.932	1	"	"	"	"	"	
General Chemistry Parameters												
	% Solids	91.7		%		1	SM2540 G Mod.	12-Mar-10	12-Mar-10	BD	1005500	

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* Reportable Detection Limit

BRL = Below Reporting Limit

Page 6 of 10

Total Metals by EPA 6000/7000 Series Methods - Quality Control

Analyte(s)	Result	Flag	Units	*RDL	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
Batch 1005433 - SW846 3050B										
<u>Blank (1005433-BLK1)</u>						<u>Prepared: 11-Mar-10 Analyzed: 12-Mar-10</u>				
Chromium	BRL		mg/kg wet	0.888						
Arsenic	BRL		mg/kg wet	1.33						
<u>Duplicate (1005433-DUP1)</u>				<u>Source: SB09000-04</u>		<u>Prepared: 11-Mar-10 Analyzed: 12-Mar-10</u>				
Chromium	20.3		mg/kg dry	1.26		19.9		2		20
Arsenic	10.4		mg/kg dry	1.89		10.1		3		20
<u>Matrix Spike (1005433-MS1)</u>				<u>Source: SB09000-06</u>		<u>Prepared: 11-Mar-10 Analyzed: 12-Mar-10</u>				
Chromium	177		mg/kg dry	1.25	156	21.5	100	75-125		
Arsenic	154		mg/kg dry	1.87	156	7.79	94	75-125		
<u>Matrix Spike Dup (1005433-MSD1)</u>				<u>Source: SB09000-06</u>		<u>Prepared: 11-Mar-10 Analyzed: 12-Mar-10</u>				
Chromium	162		mg/kg dry	1.12	140	21.5	100	75-125	9	20
Arsenic	141		mg/kg dry	1.68	140	7.79	95	75-125	9	20
<u>Post Spike (1005433-PS1)</u>				<u>Source: SB09000-06</u>		<u>Prepared: 11-Mar-10 Analyzed: 12-Mar-10</u>				
Chromium	168		mg/kg dry	1.15	143	21.5	102	80-120		
Arsenic	148		mg/kg dry	1.72	143	7.79	98	80-120		
<u>Reference (1005433-SRM1)</u>						<u>Prepared: 11-Mar-10 Analyzed: 12-Mar-10</u>				
Chromium	52.1		mg/kg wet	1.00	54.4		96	80.3-119		
Arsenic	69.0		mg/kg wet	1.50	71.5		97	82.6-117.4		
<u>Reference (1005433-SRM2)</u>						<u>Prepared: 11-Mar-10 Analyzed: 12-Mar-10</u>				
Chromium	50.0		mg/kg wet	1.00	53.7		93	80.3-119		
Arsenic	66.2		mg/kg wet	1.50	70.6		94	82.6-117.4		

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* Reportable Detection Limit BRL = Below Reporting Limit

Page 7 of 10

General Chemistry Parameters - Quality Control

Analyte(s)	Result	Flag	Units	*RDL	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
Batch 1005500 - General Preparation										
Duplicate (1005500-DUP1)					Source: SB09000-04	Prepared & Analyzed: 12-Mar-10				
% Solids	79.0		%			78.5			0.5	20

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* Reportable Detection Limit BRL = Below Reporting Limit

Page 8 of 10

Notes and Definitions

BRL	Below Reporting Limit - Analyte NOT DETECTED at or above the reporting limit
dry	Sample results reported on a dry weight basis
NR	Not Reported
RPD	Relative Percent Difference

A plus sign (+) in the Method Reference column indicates the method is not accredited by NELAC.

Laboratory Control Sample (LCS): A known matrix spiked with compound(s) representative of the target analytes, which is used to document laboratory performance.

Matrix Duplicate: An intra-laboratory split sample which is used to document the precision of a method in a given sample matrix.

Matrix Spike: An aliquot of a sample spiked with a known concentration of target analyte(s). The spiking occurs prior to sample preparation and analysis. A matrix spike is used to document the bias of a method in a given sample matrix.

Method Blank: An analyte-free matrix to which all reagents are added in the same volumes or proportions as used in sample processing. The method blank should be carried through the complete sample preparation and analytical procedure. The method blank is used to document contamination resulting from the analytical process.

Method Detection Limit (MDL): The minimum concentration of a substance that can be measured and reported with 99% confidence that the analyte concentration is greater than zero and is determined from analysis of a sample in a given matrix type containing the analyte.

Reportable Detection Limit (RDL): The lowest concentration that can be reliably achieved within specified limits of precision and accuracy during routine laboratory operating conditions. For many analytes the RDL analyte concentration is selected as the lowest non-zero standard in the calibration curve. While the RDL is approximately 5 to 10 times the MDL, the RDL for each sample takes into account the sample volume/weight, extract/digestate volume, cleanup procedures and, if applicable, dry weight correction. Sample RDLs are highly matrix-dependent.

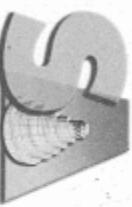
Surrogate: An organic compound which is similar to the target analyte(s) in chemical composition and behavior in the analytical process, but which is not normally found in environmental samples. These compounds are spiked into all blanks, standards, and samples prior to analysis. Percent recoveries are calculated for each surrogate.

Validated by:
Hanibal C. Tayeh, Ph.D.

MassDEP Analytical Protocol Certification Form

Laboratory Name: Spectrum Analytical, Inc.		Project #: 05-213212			
Project Location: Westborough, MA		RTN:			
This form provides certifications for the following data set:		SB09000-01 through SB09000-13			
Matrices: Soil					
CAM Protocol					
8260 VOC CAM II A	7470/7471 Hg CAM III B	MassDEP VPH CAM IV A	8081 Pesticides CAM V B	7196 Hex Cr CAM VI B	MassDEP APH CAM IX A
8270 SVOC CAM II B	7010 Metals CAM III C	MassDEP EPH CAM IV B	8151 Herbicides CAM V C	8330 Explosives CAM VIII A	TO-15 VOC CAM IX B
6010 Metals CAM III A	6020 Metals CAM III D	8082 PCB CAM V A	9014 Total Cyanide/PAC CAM VI A	6860 Perchlorate CAM VIII B	
<i>Affirmative responses to questions A through F are required for "Presumptive Certainty" status</i>					
A	Were all samples received in a condition consistent with those described on the Chain of Custody, properly preserved (including temperature) in the field or laboratory, and prepared/analyzed within method holding times?				<input checked="" type="checkbox"/> Yes No
B	Were the analytical method(s) and all associated QC requirements specified in the selected CAM protocol(s) followed?				<input checked="" type="checkbox"/> Yes No
C	Were all required corrective actions and analytical response actions specified in the selected CAM protocol(s) implemented for all identified performance standard non-conformances?				<input checked="" type="checkbox"/> Yes No
D	Does the laboratory report comply with all the reporting requirements specified in CAM VII A, "Quality Assurance and Quality Control Guidelines for the Acquisition and Reporting of Analytical Data"?				<input checked="" type="checkbox"/> Yes No
E	a. VPH, EPH, and APH Methods only: Was each method conducted without significant modification(s)? b. APH and TO-15 Methods only: Was the complete analyte list reported for each method?				Yes No Yes No
F	Were all applicable CAM protocol QC and performance standard non-conformances identified and evaluated in a laboratory narrative (including all "No" responses to questions A through E)?				<input checked="" type="checkbox"/> Yes No
<i>Responses to questions G, H and I below are required for "Presumptive Certainty" status</i>					
G	Were the reporting limits at or below all CAM reporting limits specified in the selected CAM protocol(s)?				<input checked="" type="checkbox"/> Yes No
<i>Data User Note: Data that achieve "Presumptive Certainty" status may not necessarily meet the data usability and representativeness requirements described in 310 CMR 40. 1056 (2)(k) and WSC-07-350.</i>					
H	Were all QC performance standards specified in the CAM protocol(s) achieved?				<input checked="" type="checkbox"/> Yes No
I	Were results reported for the complete analyte list specified in the selected CAM protocol(s)?				Yes <input checked="" type="checkbox"/> No
<i>All negative responses are addressed in a case narrative on the cover page of this report.</i>					
<i>I, the undersigned, attest under the pains and penalties of perjury that, based upon my personal inquiry of those responsible for obtaining the information, the material contained in this analytical report is, to the best of my knowledge and belief, accurate and complete.</i>					
					
Hanibal C. Tayeh, Ph.D. President/Laboratory Director Date: 3/15/2010					

This laboratory report is not valid without an authorized signature on the cover page.



SPECTRUM ANALYTICAL, INC.

Founding

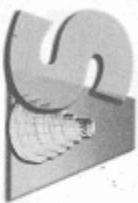
HANIBAL TECHNOLOGY

CHAIN OF CUSTODY RECORD

SB69000

Report To: <u>ECS-Western</u>	Invoice To: <u>ECS-Assawom</u>	Page <u>1</u> of <u>2</u>	Project No.: <u>05-213212</u>
			Site Name: <u>Westborough</u>
			Location: <u>Westborough</u> State: <u>MA</u>
Project Mgr.: <u>Jamie Smith</u>	P.O. No.: <u>Wester</u>	RQN: <u>EPA-HHS</u>	Sampler(s): <u>Eric Keach</u>
1=Na ₂ SO ₃ 2=HCl 3=H ₂ SO ₄ 4=HNO ₃ 5=NaOH 6=Ascorbic Acid 7=CH ₃ OH 8=NaHSO ₄ 9= 10=		Analyses:	
DW=Drinking Water GW=Groundwater WW=Wastewater O=Oil SW=Surface Water SO=Soil SL=Sludge A=Air X1= X2= X3=		QA Reporting Notes: (check if needed)	
		<input checked="" type="checkbox"/> Standard Handling: <input checked="" type="checkbox"/> Rush TAT - 7 to 10 business days All TATs subject to laboratory approval. Min. 24-hour notification needed for rushes. Samples disposed of after 60 days unless otherwise instructed.	

Lab Id:	Sample Id:	Date:	Time:	Type	Matrix	Preservative	# of VOA Vials	# of Amber Glass	# of Clear Glass	# of Plastic	Analyses:	QA Reporting Notes: (check if needed)
<u>9000-C</u>	<u>6P-2(2-4)</u>	<u>3/3/10</u>	<u>8:45</u>	<u>SP</u>			<u>1</u>	<u>1</u>	<u>X</u>			<input checked="" type="checkbox"/> Provide MA DEP MCP CAM Report
	<u>6P-4(2-4)</u>		<u>9:05</u>				<u>1</u>		<u>X</u>			<input checked="" type="checkbox"/> Provide CT DPH RCP Report
	<u>6P-6(2-4)</u>		<u>9:35</u>				<u>1</u>		<u>X</u>			<input checked="" type="checkbox"/> QA/QC Reporting Level
	<u>6P-14(2-4)</u>		<u>10:30</u>				<u>1</u>		<u>X</u>			<input checked="" type="checkbox"/> Standard
	<u>6P-15(2-4)</u>		<u>10:40</u>				<u>1</u>		<u>X</u>			<input type="checkbox"/> No QC
	<u>6P-15(2-4)</u>		<u>10:40</u>				<u>1</u>		<u>X</u>			<input type="checkbox"/> Other _____
	<u>6P-16(2-4)</u>		<u>10:50</u>				<u>1</u>		<u>X</u>			Some specific reporting standards:
	<u>6P-16(2-4)</u>		<u>10:50</u>				<u>1</u>		<u>X</u>			
	<u>6P-18(2-4)</u>		<u>11:20</u>				<u>1</u>		<u>X</u>			
	<u>6P-18(2-4)</u>		<u>11:20</u>				<u>1</u>		<u>X</u>			
Relinquished by: <u>Eric Keach</u> Received by: <u>Eric Keach</u> Date: <u>3/10/10</u> Time: <u>13:26</u>												
<input type="checkbox"/> Fax results when available to () _____ <input checked="" type="checkbox"/> E-mail to <u>jim.smith@ecsconsult.com</u> EDD Format _____												
Condition upon receipt: <input type="checkbox"/> Iced <input type="checkbox"/> Ambient <u>41.7 °C</u>												



CHAIN OF CUSTODY RECORD

SPECTRUM ANALYTICAL INC.
Enabling
HANNA TECHNOLOGY

Report To: ECS - Weston

Invoice To: ECS - Agawam

Project No.: 05-213212

Site Name: Westborough

Location: Westborough

State: MA

Sampler(s): Eric Kiefer

P.O. No.: Warran

RQN: Espnre

Analyses:

QA Reporting Notes:
(check if needed)

Project Mgr.: Jamie Smith

1=Na₂SO₄ 2=HCl 3=H₂SO₄ 4=HNO₃ 5=NaOH 6=Ascorbic Acid

Standard TAT - 7 to 10 business days
 Rush TAT - Date Needed: 3/15/06
All TATs subject to laboratory approval.
Min. 24-hour notification needed for rushes.
Samples disposed of after 60 days unless otherwise instructed.

7=CH₃OH 8=NaHSO₄ 9=

DW=Drinking Water GW=Groundwater WW=Wastewater
O=Oil SW= Surface Water SO=Soil SL=Sludge A=Air

Provide MA DEP MCP CAM Report
 Provide CT DPH RCP Report
 OMB Reporting Level
 Standard
 No QC
 Other _____

X1= X2= X3=

G=Grab C=Composite

Containers:

Analyses:

Analyses:

Analyses:

Analyses:

Lab Id: 09600-11

Sample Id: 6P-17(4-1)

Date: 3/10/06

Time: 11:05

Type: 6:50

Matrix: 1

Preservative: Arsenic

of VOA Vials: 1

of Amber Glass: X

of Clear Glass: X

of Plastic: X

Analyses: Chromium

Lab Id: 09600-11

Sample Id: 6P-17(2-4)

Date: 3/10/06

Time: 11:05

Type: 6:50

Matrix: 1

Preservative: Arsenic

of VOA Vials: X

of Amber Glass: X

of Clear Glass: X

of Plastic: X

Analyses: Chromium

Lab Id: 09600-11

Sample Id: 136P-17(4-6)

Date: 3/10/06

Time: 11:05

Type: 6:50

Matrix: 1

Preservative: Arsenic

of VOA Vials: X

of Amber Glass: X

of Clear Glass: X

of Plastic: X

Analyses: Chromium

Lab Id: 09600-11

Sample Id: 136P-17(4-6)

Date: 3/10/06

Time: 11:05

Type: 6:50

Matrix: 1

Preservative: Arsenic

of VOA Vials: X

of Amber Glass: X

of Clear Glass: X

of Plastic: X

Analyses: Chromium

Lab Id: 09600-11

Sample Id: 136P-17(4-6)

Date: 3/10/06

Time: 11:05

Type: 6:50

Matrix: 1

Preservative: Arsenic

of VOA Vials: X

of Amber Glass: X

of Clear Glass: X

of Plastic: X

Analyses: Chromium

Lab Id: 09600-11

Sample Id: 136P-17(4-6)

Date: 3/10/06

Time: 11:05

Type: 6:50

Matrix: 1

Preservative: Arsenic

of VOA Vials: X

of Amber Glass: X

of Clear Glass: X

of Plastic: X

Analyses: Chromium

Lab Id: 09600-11

Sample Id: 136P-17(4-6)

Date: 3/10/06

Time: 11:05

Type: 6:50

Matrix: 1

Preservative: Arsenic

of VOA Vials: X

of Amber Glass: X

of Clear Glass: X

of Plastic: X

Analyses: Chromium

Lab Id: 09600-11

Sample Id: 136P-17(4-6)

Date: 3/10/06

Time: 11:05

Type: 6:50

Matrix: 1

Preservative: Arsenic

of VOA Vials: X

of Amber Glass: X

of Clear Glass: X

of Plastic: X

Analyses: Chromium

Lab Id: 09600-11

Sample Id: 136P-17(4-6)

Date: 3/10/06

Time: 11:05

Type: 6:50

Matrix: 1

Preservative: Arsenic

of VOA Vials: X

of Amber Glass: X

of Clear Glass: X

of Plastic: X

Analyses: Chromium

Lab Id: 09600-11

Sample Id: 136P-17(4-6)

Date: 3/10/06

Time: 11:05

Type: 6:50

Matrix: 1

Preservative: Arsenic

of VOA Vials: X

of Amber Glass: X

of Clear Glass: X

of Plastic: X

Analyses: Chromium

Lab Id: 09600-11

Sample Id: 136P-17(4-6)

Date: 3/10/06

Time: 11:05

Type: 6:50

Matrix: 1

Preservative: Arsenic

of VOA Vials: X

of Amber Glass: X

of Clear Glass: X

of Plastic: X

Analyses: Chromium

Lab Id: 09600-11

Sample Id: 136P-17(4-6)

Date: 3/10/06

Time: 11:05

Type: 6:50

Matrix: 1

Preservative: Arsenic

of VOA Vials: X

of Amber Glass: X

of Clear Glass: X

of Plastic: X

Analyses: Chromium

Lab Id: 09600-11

Sample Id: 136P-17(4-6)

Date: 3/10/06

Time: 11:05

Type: 6:50

Matrix: 1

Preservative: Arsenic

of VOA Vials: X

of Amber Glass: X

of Clear Glass: X

of Plastic: X

Analyses: Chromium

Lab Id: 09600-11

Sample Id: 136P-17(4-6)

Date: 3/10/06

Time: 11:05

Type: 6:50

Matrix: 1

Preservative: Arsenic

of VOA Vials: X

of Amber Glass: X

of Clear Glass: X

of Plastic: X

Analyses: Chromium

Lab Id: 09600-11

Sample Id: 136P-17(4-6)

Date: 3/10/06

Time: 11:05

Type: 6:50

Matrix: 1

Preservative: Arsenic

of VOA Vials: X

of Amber Glass: X

of Clear Glass: X

of Plastic: X

Analyses: Chromium

Lab Id: 09600-11

Sample Id: 136P-17(4-6)

Date: 3/10/06

Time: 11:05

Type: 6:50

Matrix: 1

Preservative: Arsenic

of VOA Vials: X

of Amber Glass: X

of Clear Glass: X

of Plastic: X

Analyses: Chromium

Lab Id: 09600-11

Sample Id: 136P-17(4-6)

Date: 3/10/06

Time: 11:05

Type: 6:50

Matrix: 1

Preservative: Arsenic

of VOA Vials: X

of Amber Glass: X

of Clear Glass: X

of Plastic: X

Analyses: Chromium

Lab Id: 09600-11

Sample Id: 136P-17(4-6)

Date: 3/10/06

Time: 11:05

Type: 6:50

Matrix: 1

Preservative: Arsenic

of VOA Vials: X

of Amber Glass: X

of Clear Glass: X

of Plastic: X

Analyses: Chromium

Lab Id: 09600-11

Sample Id: 136P-17(4-6)

Date: 3/10/06

Time: 11:05

Type: 6:50

Matrix: 1

Report Date:
02-Mar-10 12:26



- Final Report
 Re-Issued Report
 Revised Report

SPECTRUM ANALYTICAL, INC.

Featuring
HANIBAL TECHNOLOGY

Laboratory Report

Environmental Compliance Services
10 State Street
Woburn, MA 01801
Attn: Jamie Smith

Project: Westborough, 183 Turnpike Rd.-Westborough, MA
Project #: 05-213212

Laboratory ID	Client Sample ID	Matrix	Date Sampled	Date Received
SB08314-01	MW-1	Ground Water	22-Feb-10 13:00	23-Feb-10 15:45
SB08314-02	MW-2	Ground Water	22-Feb-10 13:34	23-Feb-10 15:45

I attest that the information contained within the report has been reviewed for accuracy and checked against the quality control requirements for each method. These results relate only to the sample(s) as received.

All applicable NELAC requirements have been met.

Massachusetts # M-MA138/MA1110
Connecticut # PH-0777
Florida # E87600/E87936
Maine # MA138
New Hampshire # 2538
New Jersey # MA011/MA012
New York # 11393/11840
Pennsylvania # 68-04426/68-02924
Rhode Island # 98
USDA # S-51435
Vermont # VT-11393

Authorized by:

Hanibal C. Tayeh, Ph.D.
President/Laboratory Director

Technical Reviewer's Initial:

Spectrum Analytical holds certification in the State of Massachusetts for the analytes as indicated with an X in the "Cert." column within this report. Please note that the State of Massachusetts does not offer certification for all analytes. Please note that this report contains 34 pages of analytical data plus Chain of Custody document(s). When the Laboratory Report is indicated as revised, this report supersedes any previously dated reports for the laboratory ID(s) referenced above. Where this report identifies subcontracted analyses, copies of the subcontractor's test report are available upon request. This report may not be reproduced, except in full, without written approval from Spectrum Analytical, Inc.

Spectrum Analytical, Inc. is a NELAC accredited laboratory organization and meets NELAC testing standards. Use of the NELAC logo however does not insure that Spectrum is currently accredited for the specific method or analyte indicated. Please refer to our "Quality" web page at www.spectrum-analytical.com for a full listing of our current certifications and fields of accreditation. States in which Spectrum Analytical, Inc. holds NELAC certification are New York, New Hampshire, New Jersey and Florida. All analytical work for Volatile Organic and Air analysis are transferred to and conducted at our 830 Silver Street location (NY-11840, FL-E87936 and NJ-MA012).

Please contact the Laboratory or Technical Director at 800-789-9115 with any questions regarding the data contained in this laboratory report.

CASE NARRATIVE:

The sample temperature upon receipt by Spectrum Analytical courier was recorded as 2.6 degrees Celsius. The condition of these samples was further noted as refrigerated. The samples were transported on ice to the laboratory facility and the temperature was recorded at 3.8 degrees Celsius upon receipt at the laboratory. Please refer to the Chain of Custody for details specific to sample receipt times.

An infrared thermometer with a tolerance of +/- 2.0 degrees Celsius was used immediately upon receipt of the samples.

If a Matrix Spike (MS), Matrix Spike Duplicate (MSD) or Duplicate (DUP) was not requested on the Chain of Custody, method criteria may have been fulfilled with a source sample not of this Sample Delivery Group.

MADEP has published a list of analytical methods (CAM) which provides a series of recommended protocols for the acquisition, analysis and reporting of analytical data in support of MCP decisions. "Presumptive Certainty" can be established only for those methods published by the MADEP in the MCP CAM. The compounds and/or elements reported were specifically requested by the client on the Chain of Custody and in some cases may not include the full analyte list as defined in the method.

According to WSC-CAM 5/2004 Rev.4, Table 11 A-1, recovery for some VOC analytes have been deemed potentially difficult. Although they may still be within the recommended 70%-130% recovery range, a range has been set based on historical control limits.

See below for any non-conformances and issues relating to quality control samples and/or sample analysis/matrix.

SW846 8260B**Laboratory Control Samples:**

1004461 BS/BSD

1,1,2-Trichlorotrifluoroethane (Freon 113) percent recoveries 137/130 (70-130) are outside individual acceptance criteria, but within overall method allowances. All reported results of the following samples are considered to have a potentially high bias:

MW-2

Sample IdentificationMW-1
SB08314-01Client Project #
05-213212Matrix
Ground WaterCollection Date/Time
22-Feb-10 13:00Received
23-Feb-10

CAS No.	Analyte(s)	Result	Flag	Units	*RDL	Dilution	Method Ref.	Prepared	Analyzed	Batch	Cert.
Volatile Organic Compounds											
<u>VPH Aliphatic/Aromatic Carbon Ranges</u>											
Prepared by method VPH - EPA 5030B											
	C5-C8 Aliphatic Hydrocarbons	BRL		mg/l	0.0750	5	+MADEP VPH 5/2004 Rev. 1.1	25-Feb-10	25-Feb-10	1004364	
	C9-C12 Aliphatic Hydrocarbons	BRL		mg/l	0.0250	5	"	"	"	"	
	C9-C10 Aromatic Hydrocarbons	BRL		mg/l	0.0250	5	"	"	"	"	
	Unadjusted C5-C8 Aliphatic Hydrocarbons	BRL		mg/l	0.0750	5	"	"	"	"	
	Unadjusted C9-C12 Aliphatic Hydrocarbons	BRL		mg/l	0.0250	5	"	"	"	"	
<u>VPH Target Analytes</u>											
Prepared by method VPH - EPA 5030B											
71-43-2	Benzene	BRL		µg/l	5.0	5	"	"	"	"	
100-41-4	Ethylbenzene	BRL		µg/l	5.0	5	"	"	"	"	
1634-04-4	Methyl tert-butyl ether	BRL		µg/l	5.0	5	"	"	"	"	
91-20-3	Naphthalene	BRL		µg/l	5.0	5	"	"	"	"	
108-88-3	Toluene	BRL		µg/l	5.0	5	"	"	"	"	
179601-23-1	m,p-Xylene	BRL		µg/l	10.0	5	"	"	"	"	
95-47-6	o-Xylene	BRL		µg/l	5.0	5	"	"	"	"	
<i>Surrogate recoveries:</i>											
615-59-8	2,5-Dibromotoluene (FID)	123			70-130 %		"	"	"	"	
615-59-8	2,5-Dibromotoluene (PID)	117			70-130 %		"	"	"	"	
Semivolatile Organic Compounds by GC											
<u>Organochlorine Pesticides SW846 8081A</u>											
Prepared by method SW846 3510C											
319-84-6	alpha-BHC	BRL		µg/l	0.024	1	SW846 8081A	25-Feb-10	25-Feb-10	1004365	
319-85-7	beta-BHC	BRL		µg/l	0.024	1	"	"	"	"	
319-86-8	delta-BHC	BRL		µg/l	0.024	1	"	"	"	"	
58-89-9	gamma-BHC (Lindane)	BRL		µg/l	0.024	1	"	"	"	"	
76-44-8	Heptachlor	BRL		µg/l	0.024	1	"	"	"	"	
309-00-2	Aldrin	BRL		µg/l	0.024	1	"	"	"	"	
1024-57-3	Heptachlor epoxide	BRL		µg/l	0.024	1	"	"	"	"	
959-98-8	Endosulfan I	BRL		µg/l	0.024	1	"	"	"	"	
60-57-1	Dieldrin	BRL		µg/l	0.024	1	"	"	"	"	
72-55-9	4,4'-DDE (p,p')	BRL		µg/l	0.024	1	"	"	"	"	
72-20-8	Endrin	BRL		µg/l	0.047	1	"	"	"	"	
33213-65-9	Endosulfan II	BRL		µg/l	0.047	1	"	"	"	"	
72-54-8	4,4'-DDD (p,p')	BRL		µg/l	0.047	1	"	"	"	"	
1031-07-8	Endosulfan sulfate	BRL		µg/l	0.047	1	"	"	"	"	
50-29-3	4,4'-DDT (p,p')	BRL		µg/l	0.047	1	"	"	"	"	
72-43-5	Methoxychlor	BRL		µg/l	0.047	1	"	"	"	"	
53494-70-5	Endrin ketone	BRL		µg/l	0.047	1	"	"	"	"	
7421-93-4	Endrin aldehyde	BRL		µg/l	0.047	1	"	"	"	"	
5103-71-9	alpha-Chlordane	BRL		µg/l	0.024	1	"	"	"	"	
5566-34-7	gamma-Chlordane	BRL		µg/l	0.024	1	"	"	"	"	
8001-35-2	Toxaphene	BRL		µg/l	0.588	1	"	"	"	"	
57-74-9	Chlordane	BRL		µg/l	0.076	1	"	"	"	"	
2303-16-4	Diallate	BRL		µg/l	0.059	1	"	"	"	"	
15972-60-8	Alachlor	BRL		µg/l	0.024	1	"	"	"	"	
465-73-6	Isodrin	BRL		µg/l	0.059	1	"	"	"	"	
510-15-6	Chlorobenzilate	BRL		µg/l	0.059	1	"	"	"	"	
2385-85-5	Mirex	BRL		µg/l	0.059	1	"	"	"	"	

This laboratory report is not valid without an authorized signature on the cover page.

Sample IdentificationMW-1
SB08314-01Client Project #

05-213212

Matrix

Ground Water

Collection Date/Time

22-Feb-10 13:00

Received

23-Feb-10

<u>CAS No.</u>	<u>Analyte(s)</u>	<u>Result</u>	<u>Flag</u>	<u>Units</u>	<u>*RDL</u>	<u>Dilution</u>	<u>Method Ref.</u>	<u>Prepared</u>	<u>Analyzed</u>	<u>Batch</u>	<u>Cert.</u>
Semivolatile Organic Compounds by GC											
<u>Organochlorine Pesticides SW846 8081A</u>											
Prepared by method SW846 3510C											
<i>Surrogate recoveries:</i>											
10386-84-2	4,4-DB-Octafluorobiphenyl (Sr)	52		30-150 %			SW846 8081A	25-Feb-10	25-Feb-10	1004365	
10386-84-2	4,4-DB-Octafluorobiphenyl (Sr) [2C]	48		30-150 %			"	"	"	"	
2051-24-3	Decachlorobiphenyl (Sr)	34		30-150 %			"	"	"	"	
2051-24-3	Decachlorobiphenyl (Sr) [2C]	32		30-150 %			"	"	"	"	
Extractable Petroleum Hydrocarbons											
<u>EPH Aliphatic/Aromatic Ranges</u>											
Prepared by method SW846 3510C											
C9-C18 Aliphatic Hydrocarbons	BRL		mg/l	0.1	1	+MADEP EPH 5/2004 R		25-Feb-10	25-Feb-10	1004356	
C19-C36 Aliphatic Hydrocarbons	BRL		mg/l	0.1	1	"		"	"	"	
C11-C22 Aromatic Hydrocarbons	BRL		mg/l	0.1	1	"		"	"	"	
Unadjusted C11-C22 Aromatic Hydrocarbons	BRL		mg/l	0.1	1	"		"	"	"	
Total Petroleum Hydrocarbons	BRL		mg/l	0.1	1	"		"	"	"	
Unadjusted Total Petroleum Hydrocarbons	BRL		mg/l	0.1	1	"		"	"	"	
<u>EPH Target PAH Analytes</u>											
Prepared by method SW846 3510C											
91-20-3	Naphthalene	BRL	µg/l	6.76	1	"		"	"	"	
91-57-6	2-Methylnaphthalene	BRL	µg/l	6.76	1	"		"	"	"	
208-96-8	Acenaphthylene	BRL	µg/l	6.76	1	"		"	"	"	
83-32-9	Acenaphthene	BRL	µg/l	6.76	1	"		"	"	"	
86-73-7	Fluorene	BRL	µg/l	6.76	1	"		"	"	"	
85-01-8	Phenanthrene	BRL	µg/l	6.76	1	"		"	"	"	
120-12-7	Anthracene	BRL	µg/l	6.76	1	"		"	"	"	
206-44-0	Fluoranthene	BRL	µg/l	6.76	1	"		"	"	"	
129-00-0	Pyrene	BRL	µg/l	6.76	1	"		"	"	"	
56-55-3	Benzo (a) anthracene	BRL	µg/l	6.76	1	"		"	"	"	
218-01-9	Chrysene	BRL	µg/l	6.76	1	"		"	"	"	
205-99-2	Benzo (b) fluoranthene	BRL	µg/l	6.76	1	"		"	"	"	
207-08-9	Benzo (k) fluoranthene	BRL	µg/l	6.76	1	"		"	"	"	
50-32-8	Benzo (a) pyrene	BRL	µg/l	6.76	1	"		"	"	"	
193-39-5	Indeno (1,2,3-cd) pyrene	BRL	µg/l	6.76	1	"		"	"	"	
53-70-3	Dibenzo (a,h) anthracene	BRL	µg/l	6.76	1	"		"	"	"	
191-24-2	Benzo (g,h,i) perylene	BRL	µg/l	6.76	1	"		"	"	"	
<i>Surrogate recoveries:</i>											
3386-33-2	1-Chlorooctadecane	94		40-140 %			"	"	"	"	
84-15-1	Ortho-Terphenyl	70		40-140 %			"	"	"	"	
321-60-8	2-Fluorobiphenyl	67		40-140 %			"	"	"	"	
Soluble Metals by EPA 200/6000 Series Methods											
Filtration	Field Filtered		N/A		1	EPA 200.7/3005A	24-Feb-10 18:15	24-Feb-10 18:15	1004303		
Soluble Metals by EPA 6000/7000 Series Methods											
7440-38-2	Arsenic	BRL	mg/l	0.0040	1	SW846 6010B	24-Feb-10	25-Feb-10	1004333		
7439-92-1	Lead	BRL	mg/l	0.0075	1	"	"	"	"	"	

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Sample IdentificationMW-2
SB08314-02Client Project #
05-213212Matrix
Ground WaterCollection Date/Time
22-Feb-10 13:34Received
23-Feb-10

CAS No.	Analyte(s)	Result	Flag	Units	*RDL	Dilution	Method Ref.	Prepared	Analyzed	Batch	Cert.
Volatile Organic Compounds											
<u>Volatile Organic Compounds</u>											
Prepared by method SW846 5030 Water MS											
76-13-1	1,1,2-Trichlorotrifluoroethane (Freon 113)	BRL		µg/l	1.0	1	SW846 8260B	26-Feb-10	26-Feb-10	1004461	
67-64-1	Acetone	BRL		µg/l	10.0	1	"	"	"	"	
107-13-1	Acrylonitrile	BRL		µg/l	0.5	1	"	"	"	"	
71-43-2	Benzene	BRL		µg/l	1.0	1	"	"	"	"	
108-86-1	Bromobenzene	BRL		µg/l	1.0	1	"	"	"	"	
74-97-5	Bromoform	BRL		µg/l	1.0	1	"	"	"	"	
75-27-4	Bromochloromethane	BRL		µg/l	0.5	1	"	"	"	"	
75-25-2	Bromodichloromethane	BRL		µg/l	1.0	1	"	"	"	"	
74-83-9	Bromomethane	BRL		µg/l	2.0	1	"	"	"	"	
78-93-3	2-Butanone (MEK)	BRL		µg/l	10.0	1	"	"	"	"	
104-51-8	n-Butylbenzene	BRL		µg/l	1.0	1	"	"	"	"	
135-98-8	sec-Butylbenzene	1.6		µg/l	1.0	1	"	"	"	"	
98-06-6	tert-Butylbenzene	BRL		µg/l	1.0	1	"	"	"	"	
75-15-0	Carbon disulfide	BRL		µg/l	5.0	1	"	"	"	"	
56-23-5	Carbon tetrachloride	BRL		µg/l	1.0	1	"	"	"	"	
108-90-7	Chlorobenzene	BRL		µg/l	1.0	1	"	"	"	"	
75-00-3	Chloroethane	BRL		µg/l	2.0	1	"	"	"	"	
67-66-3	Chloroform	BRL		µg/l	1.0	1	"	"	"	"	
74-87-3	Chloromethane	BRL		µg/l	2.0	1	"	"	"	"	
95-49-8	2-Chlorotoluene	BRL		µg/l	1.0	1	"	"	"	"	
106-43-4	4-Chlorotoluene	BRL		µg/l	1.0	1	"	"	"	"	
96-12-8	1,2-Dibromo-3-chloropropane	BRL		µg/l	2.0	1	"	"	"	"	
124-48-1	Dibromochloromethane	BRL		µg/l	0.5	1	"	"	"	"	
106-93-4	1,2-Dibromoethane (EDB)	BRL		µg/l	0.5	1	"	"	"	"	
74-95-3	Dibromomethane	BRL		µg/l	1.0	1	"	"	"	"	
95-50-1	1,2-Dichlorobenzene	BRL		µg/l	1.0	1	"	"	"	"	
541-73-1	1,3-Dichlorobenzene	BRL		µg/l	1.0	1	"	"	"	"	
106-46-7	1,4-Dichlorobenzene	BRL		µg/l	1.0	1	"	"	"	"	
75-71-8	Dichlorodifluoromethane (Freon12)	BRL		µg/l	2.0	1	"	"	"	"	
75-34-3	1,1-Dichloroethane	BRL		µg/l	1.0	1	"	"	"	"	
107-06-2	1,2-Dichloroethane	BRL		µg/l	1.0	1	"	"	"	"	
75-35-4	1,1-Dichloroethene	BRL		µg/l	1.0	1	"	"	"	"	
156-59-2	cis-1,2-Dichloroethene	BRL		µg/l	1.0	1	"	"	"	"	
156-60-5	trans-1,2-Dichloroethene	BRL		µg/l	1.0	1	"	"	"	"	
78-87-5	1,2-Dichloropropane	BRL		µg/l	1.0	1	"	"	"	"	
142-28-9	1,3-Dichloropropane	BRL		µg/l	1.0	1	"	"	"	"	
594-20-7	2,2-Dichloropropane	BRL		µg/l	1.0	1	"	"	"	"	
563-58-6	1,1-Dichloropropene	BRL		µg/l	1.0	1	"	"	"	"	
10061-01-5	cis-1,3-Dichloropropene	BRL		µg/l	0.5	1	"	"	"	"	
10061-02-6	trans-1,3-Dichloropropene	BRL		µg/l	0.5	1	"	"	"	"	
100-41-4	Ethylbenzene	BRL		µg/l	1.0	1	"	"	"	"	
87-68-3	Hexachlorobutadiene	BRL		µg/l	0.5	1	"	"	"	"	
591-78-6	2-Hexanone (MBK)	BRL		µg/l	10.0	1	"	"	"	"	
98-82-8	Isopropylbenzene	BRL		µg/l	1.0	1	"	"	"	"	
99-87-6	4-Isopropyltoluene	BRL		µg/l	1.0	1	"	"	"	"	
1634-04-4	Methyl tert-butyl ether	BRL		µg/l	1.0	1	"	"	"	"	
108-10-1	4-Methyl-2-pentanone (MIBK)	BRL		µg/l	10.0	1	"	"	"	"	
75-09-2	Methylene chloride	BRL		µg/l	5.0	1	"	"	"	"	
91-20-3	Naphthalene	BRL		µg/l	1.0	1	"	"	"	"	

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* Reportable Detection Limit

BRL = Below Reporting Limit

Page 5 of 34

<u>Sample Identification</u>		<u>Client Project #</u>		<u>Matrix</u>		<u>Collection Date/Time</u>		<u>Received</u>					
MW-2	SB08314-02	05-213212		Ground Water		22-Feb-10 13:34		23-Feb-10					
CAS No.	Analyte(s)	Result	Flag	Units	*RDL	Dilution	Method Ref.	Prepared	Analyzed	Batch	Cert.		
Volatile Organic Compounds													
Volatile Organic Compounds													
Prepared by method SW846 5030 Water MS													
103-65-1	n-Propylbenzene	BRL		µg/l	1.0	1	SW846 8260B	26-Feb-10	26-Feb-10	1004461			
100-42-5	Styrene	BRL		µg/l	1.0	1	"	"	"	"	"		
630-20-6	1,1,1,2-Tetrachloroethane	BRL		µg/l	1.0	1	"	"	"	"	"		
79-34-5	1,1,2,2-Tetrachloroethane	BRL		µg/l	0.5	1	"	"	"	"	"		
127-18-4	Tetrachloroethene	BRL		µg/l	1.0	1	"	"	"	"	"		
108-88-3	Toluene	BRL		µg/l	1.0	1	"	"	"	"	"		
87-61-6	1,2,3-Trichlorobenzene	BRL		µg/l	1.0	1	"	"	"	"	"		
120-82-1	1,2,4-Trichlorobenzene	BRL		µg/l	1.0	1	"	"	"	"	"		
108-70-3	1,3,5-Trichlorobenzene	BRL		µg/l	1.0	1	"	"	"	"	"		
71-55-6	1,1,1-Trichloroethane	BRL		µg/l	1.0	1	"	"	"	"	"		
79-00-5	1,1,2-Trichloroethane	BRL		µg/l	1.0	1	"	"	"	"	"		
79-01-6	Trichloroethene	BRL		µg/l	1.0	1	"	"	"	"	"		
75-69-4	Trichlorofluoromethane (Freon 11)	BRL		µg/l	1.0	1	"	"	"	"	"		
96-18-4	1,2,3-Trichloropropane	BRL		µg/l	1.0	1	"	"	"	"	"		
95-63-6	1,2,4-Trimethylbenzene	BRL		µg/l	1.0	1	"	"	"	"	"		
108-67-8	1,3,5-Trimethylbenzene	BRL		µg/l	1.0	1	"	"	"	"	"		
75-01-4	Vinyl chloride	BRL		µg/l	1.0	1	"	"	"	"	"		
179601-23-1	m,p-Xylene	BRL		µg/l	2.0	1	"	"	"	"	"		
95-47-6	o-Xylene	BRL		µg/l	1.0	1	"	"	"	"	"		
109-99-9	Tetrahydrofuran	BRL		µg/l	10.0	1	"	"	"	"	"		
60-29-7	Ethyl ether	BRL		µg/l	1.0	1	"	"	"	"	"		
994-05-8	Tert-amyl methyl ether	BRL		µg/l	1.0	1	"	"	"	"	"		
637-92-3	Ethyl tert-butyl ether	BRL		µg/l	1.0	1	"	"	"	"	"		
108-20-3	Di-isopropyl ether	BRL		µg/l	1.0	1	"	"	"	"	"		
75-65-0	Tert-Butanol / butyl alcohol	BRL		µg/l	10.0	1	"	"	"	"	"		
123-91-1	1,4-Dioxane	BRL		µg/l	20.0	1	"	"	"	"	"		
110-57-6	trans-1,4-Dichloro-2-butene	BRL		µg/l	5.0	1	"	"	"	"	"		
64-17-5	Ethanol	BRL		µg/l	400	1	"	"	"	"	"		
Surrogate recoveries:													
460-00-4	4-Bromofluorobenzene	89		70-130 %		"	"	"	"	"	"		
2037-26-5	Toluene-d8	94		70-130 %		"	"	"	"	"	"		
17060-07-0	1,2-Dichloroethane-d4	106		70-130 %		"	"	"	"	"	"		
1868-53-7	Dibromofluoromethane	105		70-130 %		"	"	"	"	"	"		
VPH Aliphatic/Aromatic Carbon Ranges													
Prepared by method VPH - EPA 5030B													
C5-C8 Aliphatic Hydrocarbons		BRL		mg/l	0.0750	5	+MADEP VPH 5/2004 Rev. 1.1	25-Feb-10	25-Feb-10	1004364			
C9-C12 Aliphatic Hydrocarbons		BRL		mg/l	0.0250	5	"	"	"	"	"		
C9-C10 Aromatic Hydrocarbons		BRL		mg/l	0.0250	5	"	"	"	"	"		
Unadjusted C5-C8 Aliphatic Hydrocarbons		BRL		mg/l	0.0750	5	"	"	"	"	"		
Unadjusted C9-C12 Aliphatic Hydrocarbons		BRL		mg/l	0.0250	5	"	"	"	"	"		
VPH Target Analytes													
Prepared by method VPH - EPA 5030B													
71-43-2	Benzene	BRL		µg/l	5.0	5	"	"	"	"	"		
100-41-4	Ethylbenzene	BRL		µg/l	5.0	5	"	"	"	"	"		
1634-04-4	Methyl tert-butyl ether	BRL		µg/l	5.0	5	"	"	"	"	"		
91-20-3	Naphthalene	BRL		µg/l	5.0	5	"	"	"	"	"		
108-88-3	Toluene	BRL		µg/l	5.0	5	"	"	"	"	"		

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Sample IdentificationMW-2
SB08314-02Client Project #
05-213212Matrix
Ground WaterCollection Date/Time
22-Feb-10 13:34Received
23-Feb-10

CAS No.	Analyte(s)	Result	Flag	Units	*RDL	Dilution	Method Ref.	Prepared	Analyzed	Batch	Cert.
Volatile Organic Compounds											
VPH Target Analytes											
Prepared by method VPH - EPA 5030B											
179601-23-1	m,p-Xylene	BRL		µg/l	10.0	5	+MADEP VPH 5/2004 Rev. 1.1	25-Feb-10	25-Feb-10	1004364	
95-47-6	o-Xylene	BRL		µg/l	5.0	5	"	"	"	"	
<i>Surrogate recoveries:</i>											
615-59-8	2,5-Dibromotoluene (FID)	124			70-130 %		"	"	"	"	
615-59-8	2,5-Dibromotoluene (PID)	117			70-130 %		"	"	"	"	
Semivolatile Organic Compounds by GC											
Organochlorine Pesticides SW846 8081A											
Prepared by method SW846 3510C											
319-84-6	alpha-BHC	BRL		µg/l	0.022	1	SW846 8081A	25-Feb-10	25-Feb-10	1004365	
319-85-7	beta-BHC	BRL		µg/l	0.022	1	"	"	"	"	
319-86-8	delta-BHC	BRL		µg/l	0.022	1	"	"	"	"	
58-89-9	gamma-BHC (Lindane)	BRL		µg/l	0.022	1	"	"	"	"	
76-44-8	Heptachlor	BRL		µg/l	0.022	1	"	"	"	"	
309-00-2	Aldrin	BRL		µg/l	0.022	1	"	"	"	"	
1024-57-3	Heptachlor epoxide	BRL		µg/l	0.022	1	"	"	"	"	
959-98-8	Endosulfan I	BRL		µg/l	0.022	1	"	"	"	"	
60-57-1	Dieldrin	BRL		µg/l	0.022	1	"	"	"	"	
72-55-9	4,4'-DDE (p,p')	BRL		µg/l	0.022	1	"	"	"	"	
72-20-8	Endrin	BRL		µg/l	0.045	1	"	"	"	"	
33213-65-9	Endosulfan II	BRL		µg/l	0.045	1	"	"	"	"	
72-54-8	4,4'-DDD (p,p')	BRL		µg/l	0.045	1	"	"	"	"	
1031-07-8	Endosulfan sulfate	BRL		µg/l	0.045	1	"	"	"	"	
50-29-3	4,4'-DDT (p,p')	BRL		µg/l	0.045	1	"	"	"	"	
72-43-5	Methoxychlor	BRL		µg/l	0.045	1	"	"	"	"	
53494-70-5	Endrin ketone	BRL		µg/l	0.045	1	"	"	"	"	
7421-93-4	Endrin aldehyde	BRL		µg/l	0.045	1	"	"	"	"	
5103-71-9	alpha-Chlordane	BRL		µg/l	0.022	1	"	"	"	"	
5566-34-7	gamma-Chlordane	BRL		µg/l	0.022	1	"	"	"	"	
8001-35-2	Toxaphene	BRL		µg/l	0.562	1	"	"	"	"	
57-74-9	Chlordane	BRL		µg/l	0.073	1	"	"	"	"	
2303-16-4	Diellate	BRL		µg/l	0.056	1	"	"	"	"	
15972-60-8	Alachlor	BRL		µg/l	0.022	1	"	"	"	"	
465-73-6	Isodrin	BRL		µg/l	0.056	1	"	"	"	"	
510-15-6	Chlorobenzilate	BRL		µg/l	0.056	1	"	"	"	"	
2385-85-5	Mirex	BRL		µg/l	0.056	1	"	"	"	"	
<i>Surrogate recoveries:</i>											
10386-84-2	4,4-DB-Octafluorobiphenyl (Sr)	50			30-150 %		"	"	"	"	
10386-84-2	4,4-DB-Octafluorobiphenyl (Sr) [2C]	51			30-150 %		"	"	"	"	
2051-24-3	Decachlorobiphenyl (Sr)	30			30-150 %		"	"	"	"	
2051-24-3	Decachlorobiphenyl (Sr) [2C]	31			30-150 %		"	"	"	"	
Extractable Petroleum Hydrocarbons											
EPH Aliphatic/Aromatic Ranges											
Prepared by method SW846 3510C											
	C9-C18 Aliphatic Hydrocarbons	BRL		mg/l	0.1	1	+MADEP EPH 5/2004 R	25-Feb-10	26-Feb-10	1004356	
	C19-C36 Aliphatic Hydrocarbons	BRL		mg/l	0.1	1	"	"	"	"	
	C11-C22 Aromatic Hydrocarbons	BRL		mg/l	0.1	1	"	"	"	"	
	Unadjusted C11-C22 Aromatic Hydrocarbons	BRL		mg/l	0.1	1	"	"	"	"	

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* Reportable Detection Limit

BRL = Below Reporting Limit

Page 7 of 34

Sample IdentificationMW-2
SB08314-02Client Project #
05-213212Matrix
Ground WaterCollection Date/Time
22-Feb-10 13:34Received
23-Feb-10

CAS No.	Analyte(s)	Result	Flag	Units	*RDL	Dilution	Method Ref.	Prepared	Analyzed	Batch	Cert.
Extractable Petroleum Hydrocarbons											
<u>EPH Aliphatic/Aromatic Ranges</u>											
Prepared by method SW846 3510C											
Total Petroleum Hydrocarbons	BRL			mg/l	0.1	1	+MADEP EPH 5/2004 R	25-Feb-10	26-Feb-10	1004356	
Unadjusted Total Petroleum Hydrocarbons	BRL			mg/l	0.1	1	"	"	"	"	
<u>EPH Target PAH Analytes</u>											
Prepared by method SW846 3510C											
91-20-3 Naphthalene	BRL			µg/l	5.38	1	"	"	"	"	
91-57-6 2-Methylnaphthalene	BRL			µg/l	5.38	1	"	"	"	"	
208-96-8 Acenaphthylene	BRL			µg/l	5.38	1	"	"	"	"	
83-32-9 Acenaphthene	BRL			µg/l	5.38	1	"	"	"	"	
86-73-7 Fluorene	BRL			µg/l	5.38	1	"	"	"	"	
85-01-8 Phenanthrene	BRL			µg/l	5.38	1	"	"	"	"	
120-12-7 Anthracene	BRL			µg/l	5.38	1	"	"	"	"	
206-44-0 Fluoranthene	BRL			µg/l	5.38	1	"	"	"	"	
129-00-0 Pyrene	BRL			µg/l	5.38	1	"	"	"	"	
56-55-3 Benzo (a) anthracene	BRL			µg/l	5.38	1	"	"	"	"	
218-01-9 Chrysene	BRL			µg/l	5.38	1	"	"	"	"	
205-99-2 Benzo (b) fluoranthene	BRL			µg/l	5.38	1	"	"	"	"	
207-08-9 Benzo (k) fluoranthene	BRL			µg/l	5.38	1	"	"	"	"	
50-32-8 Benzo (a) pyrene	BRL			µg/l	5.38	1	"	"	"	"	
193-39-5 Indeno (1,2,3-cd) pyrene	BRL			µg/l	5.38	1	"	"	"	"	
53-70-3 Dibenzo (a,h) anthracene	BRL			µg/l	5.38	1	"	"	"	"	
191-24-2 Benzo (g,h,i) perylene	BRL			µg/l	5.38	1	"	"	"	"	
<i>Surrogate recoveries:</i>											
3386-33-2 1-Chlorooctadecane	75			40-140 %			"	"	"	"	
84-15-1 Ortho-Terphenyl	68			40-140 %			"	"	"	"	
321-60-8 2-Fluorobiphenyl	68			40-140 %			"	"	"	"	
Soluble Metals by EPA 200/6000 Series Methods											
Filtration	Field Filtered			N/A		1	EPA 200.7/3005A	24-Feb-10 18:15	24-Feb-10 18:15	1004303	
Soluble Metals by EPA 6000/7000 Series Methods											
7440-38-2 Arsenic	BRL			mg/l	0.0040	1	SW846 6010B	24-Feb-10	25-Feb-10	1004333	
7440-47-3 Chromium	BRL			mg/l	0.0050	1	"	"	"	"	
7439-92-1 Lead	BRL			mg/l	0.0075	1	"	"	"	"	

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Volatile Organic Compounds - Quality Control

Analyte(s)	Result	Flag	Units	*RDL	Spike Level	Source Result	%REC	%REC Limits	RPD RPD	RPD Limit
Batch 1004364 - VPH - EPA 5030B										
<u>Blank (1004364-BLK1)</u>										
Prepared & Analyzed: 25-Feb-10										
C5-C8 Aliphatic Hydrocarbons	BRL		mg/l	0.0750						
C9-C12 Aliphatic Hydrocarbons	BRL		mg/l	0.0250						
C9-C10 Aromatic Hydrocarbons	BRL		mg/l	0.0250						
Unadjusted C5-C8 Aliphatic Hydrocarbons	BRL		mg/l	0.0750						
Unadjusted C9-C12 Aliphatic Hydrocarbons	BRL		mg/l	0.0250						
Benzene	BRL		µg/l	5.0						
Ethylbenzene	BRL		µg/l	5.0						
Methyl tert-butyl ether	BRL		µg/l	5.0						
Naphthalene	BRL		µg/l	5.0						
Toluene	BRL		µg/l	5.0						
m,p-Xylene	BRL		µg/l	10.0						
o-Xylene	BRL		µg/l	5.0						
2-Methylpentane	BRL		µg/l	5.0						
n-Nonane	BRL		µg/l	10.0						
n-Pentane	BRL		µg/l	10.0						
1,2,4-Trimethylbenzene	BRL		µg/l	5.0						
2,2,4-Trimethylpentane	BRL		µg/l	5.0						
n-Butylcyclohexane	BRL		µg/l	5.0						
n-Decane	BRL		µg/l	5.0						
Surrogate: 2,5-Dibromotoluene (FID)	55.6		µg/l	50.0		111	70-130			
Surrogate: 2,5-Dibromotoluene (PID)	54.1		µg/l	50.0		108	70-130			
<u>LCS (1004364-BS1)</u>										
Prepared & Analyzed: 25-Feb-10										
C5-C8 Aliphatic Hydrocarbons	63.3		µg/l	60.0		106	70-130			
C9-C12 Aliphatic Hydrocarbons	60.5		µg/l	60.0		101	70-130			
C9-C10 Aromatic Hydrocarbons	18.9		µg/l	20.0		94	70-130			
Unadjusted C5-C8 Aliphatic Hydrocarbons	184		µg/l	200		92	70-130			
Unadjusted C9-C12 Aliphatic Hydrocarbons	79.4		µg/l	80.0		99	70-130			
Benzene	20.1		µg/l	20.0		100	70-130			
Ethylbenzene	20.2		µg/l	20.0		101	70-130			
Methyl tert-butyl ether	19.6		µg/l	20.0		98	70-130			
Naphthalene	20.3		µg/l	20.0		101	70-130			
Toluene	20.0		µg/l	20.0		100	70-130			
m,p-Xylene	40.7		µg/l	40.0		102	70-130			
o-Xylene	20.6		µg/l	20.0		103	70-130			
2-Methylpentane	20.1		µg/l	20.0		101	70-130			
n-Nonane	19.7		µg/l	20.0		98	70-130			
n-Pentane	20.9		µg/l	20.0		104	70-130			
1,2,4-Trimethylbenzene	20.4		µg/l	20.0		102	70-130			
2,2,4-Trimethylpentane	20.5		µg/l	20.0		103	70-130			
n-Butylcyclohexane	19.6		µg/l	20.0		98	70-130			
n-Decane	19.1		µg/l	20.0		95	70-130			
Surrogate: 2,5-Dibromotoluene (FID)	55.7		µg/l	50.0		111	70-130			
Surrogate: 2,5-Dibromotoluene (PID)	53.7		µg/l	50.0		107	70-130			
<u>LCS Dup (1004364-BSD1)</u>										
Prepared & Analyzed: 25-Feb-10										
C5-C8 Aliphatic Hydrocarbons	69.3		µg/l	60.0		116	70-130	9	25	

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Volatile Organic Compounds - Quality Control

Analyte(s)	Result	Flag	Units	*RDL	Spike Level	Source Result	%REC	%REC Limits	RPD RPD	RPD Limit
Batch 1004364 - VPH - EPA 5030B										
LCS Dup (1004364-BSD1)										
Prepared & Analyzed: 25-Feb-10										
C9-C12 Aliphatic Hydrocarbons	61.6		µg/l		60.0	103	70-130	2	25	
C9-C10 Aromatic Hydrocarbons	17.9		µg/l		20.0	89	70-130	5	25	
Unadjusted C5-C8 Aliphatic Hydrocarbons	185		µg/l		200	92	70-130	0.3	25	
Unadjusted C9-C12 Aliphatic Hydrocarbons	79.5		µg/l		80.0	99	70-130	0.04	25	
Benzene	19.2		µg/l		20.0	96	70-130	5	25	
Ethylbenzene	19.1		µg/l		20.0	96	70-130	5	25	
Methyl tert-butyl ether	19.4		µg/l		20.0	97	70-130	1	25	
Naphthalene	19.4		µg/l		20.0	97	70-130	5	25	
Toluene	19.1		µg/l		20.0	95	70-130	5	25	
m,p-Xylene	38.5		µg/l		40.0	96	70-130	6	25	
o-Xylene	19.7		µg/l		20.0	98	70-130	5	25	
2-Methylpentane	19.5		µg/l		20.0	98	70-130	3	25	
n-Nonane	18.2		µg/l		20.0	91	70-130	8	25	
n-Pentane	18.9		µg/l		20.0	94	70-130	10	25	
1,2,4-Trimethylbenzene	19.4		µg/l		20.0	97	70-130	5	25	
2,2,4-Trimethylpentane	19.7		µg/l		20.0	99	70-130	4	25	
n-Butylcyclohexane	18.2		µg/l		20.0	91	70-130	7	25	
n-Decane	17.5		µg/l		20.0	87	70-130	9	25	
Surrogate: 2,5-Dibromotoluene (FID)	54.9		µg/l		50.0	110	70-130			
Surrogate: 2,5-Dibromotoluene (PID)	52.5		µg/l		50.0	105	70-130			

Batch 1004461 - SW846 5030 Water MS

Blank (1004461-BLK1)

Prepared & Analyzed: 26-Feb-10

1,1,2-Trichlorotrifluoroethane (Freon 113)	BRL	µg/l	1.0
Acetone	BRL	µg/l	10.0
Acrylonitrile	BRL	µg/l	0.5
Benzene	BRL	µg/l	1.0
Bromobenzene	BRL	µg/l	1.0
Bromochloromethane	BRL	µg/l	1.0
Bromodichloromethane	BRL	µg/l	0.5
Bromoform	BRL	µg/l	1.0
Bromomethane	BRL	µg/l	2.0
2-Butanone (MEK)	BRL	µg/l	10.0
n-Butylbenzene	BRL	µg/l	1.0
sec-Butylbenzene	BRL	µg/l	1.0
tert-Butylbenzene	BRL	µg/l	1.0
Carbon disulfide	BRL	µg/l	5.0
Carbon tetrachloride	BRL	µg/l	1.0
Chlorobenzene	BRL	µg/l	1.0
Chloroethane	BRL	µg/l	2.0
Chloroform	BRL	µg/l	1.0
Chloromethane	BRL	µg/l	2.0
2-Chlorotoluene	BRL	µg/l	1.0
4-Chlorotoluene	BRL	µg/l	1.0
1,2-Dibromo-3-chloropropane	BRL	µg/l	2.0
Dibromochloromethane	BRL	µg/l	0.5
1,2-Dibromoethane (EDB)	BRL	µg/l	0.5

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* Reportable Detection Limit

BRL = Below Reporting Limit

Page 10 of 34

Volatile Organic Compounds - Quality Control

Analyte(s)	Result	Flag	Units	*RDL	Spike Level	Source Result	%REC	%REC Limits	RPD RPD	RPD Limit
Batch 1004461 - SW846 5030 Water MS										
<u>Blank (1004461-BLK1)</u>										
Prepared & Analyzed: 26-Feb-10										
Dibromomethane	BRL		µg/l		1.0					
1,2-Dichlorobenzene	BRL		µg/l		1.0					
1,3-Dichlorobenzene	BRL		µg/l		1.0					
1,4-Dichlorobenzene	BRL		µg/l		1.0					
Dichlorodifluoromethane (Freon12)	BRL		µg/l		2.0					
1,1-Dichloroethane	BRL		µg/l		1.0					
1,2-Dichloroethane	BRL		µg/l		1.0					
1,1-Dichloroethene	BRL		µg/l		1.0					
cis-1,2-Dichloroethene	BRL		µg/l		1.0					
trans-1,2-Dichloroethene	BRL		µg/l		1.0					
1,2-Dichloropropane	BRL		µg/l		1.0					
1,3-Dichloropropane	BRL		µg/l		1.0					
2,2-Dichloropropane	BRL		µg/l		1.0					
1,1-Dichloropropene	BRL		µg/l		1.0					
cis-1,3-Dichloropropene	BRL		µg/l		0.5					
trans-1,3-Dichloropropene	BRL		µg/l		0.5					
Ethylbenzene	BRL		µg/l		1.0					
Hexachlorobutadiene	BRL		µg/l		0.5					
2-Hexanone (MBK)	BRL		µg/l		10.0					
Isopropylbenzene	BRL		µg/l		1.0					
4-Isopropyltoluene	BRL		µg/l		1.0					
Methyl tert-butyl ether	BRL		µg/l		1.0					
4-Methyl-2-pentanone (MIBK)	BRL		µg/l		10.0					
Methylene chloride	BRL		µg/l		5.0					
Naphthalene	BRL		µg/l		1.0					
n-Propylbenzene	BRL		µg/l		1.0					
Styrene	BRL		µg/l		1.0					
1,1,1,2-Tetrachloroethane	BRL		µg/l		1.0					
1,1,2,2-Tetrachloroethane	BRL		µg/l		0.5					
Tetrachloroethene	BRL		µg/l		1.0					
Toluene	BRL		µg/l		1.0					
1,2,3-Trichlorobenzene	BRL		µg/l		1.0					
1,2,4-Trichlorobenzene	BRL		µg/l		1.0					
1,3,5-Trichlorobenzene	BRL		µg/l		1.0					
1,1,1-Trichloroethane	BRL		µg/l		1.0					
1,1,2-Trichloroethane	BRL		µg/l		1.0					
Trichloroethene	BRL		µg/l		1.0					
Trichlorofluoromethane (Freon 11)	BRL		µg/l		1.0					
1,2,3-Trichloropropane	BRL		µg/l		1.0					
1,2,4-Trimethylbenzene	BRL		µg/l		1.0					
1,3,5-Trimethylbenzene	BRL		µg/l		1.0					
Vinyl chloride	BRL		µg/l		1.0					
m,p-Xylene	BRL		µg/l		2.0					
o-Xylene	BRL		µg/l		1.0					
Tetrahydrofuran	BRL		µg/l		10.0					
Ethyl ether	BRL		µg/l		1.0					
Tert-amyl methyl ether	BRL		µg/l		1.0					
Ethyl tert-butyl ether	BRL		µg/l		1.0					
Di-isopropyl ether	BRL		µg/l		1.0					

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Volatile Organic Compounds - Quality Control

Analyte(s)	Result	Flag	Units	*RDL	Spike Level	Source Result	%REC	%REC Limits	RPD RPD	RPD Limit
Batch 1004461 - SW846 5030 Water MS										
<u>Blank (1004461-BLK1)</u>										
Prepared & Analyzed: 26-Feb-10										
Tert-Butanol / butyl alcohol	BRL		µg/l	10.0						
1,4-Dioxane	BRL		µg/l	20.0						
trans-1,4-Dichloro-2-butene	BRL		µg/l	5.0						
Ethanol	BRL		µg/l	400						
<i>Surrogate: 4-Bromofluorobenzene</i>	43.6		µg/l		50.0		87	70-130		
<i>Surrogate: Toluene-d8</i>	47.2		µg/l		50.0		94	70-130		
<i>Surrogate: 1,2-Dichloroethane-d4</i>	54.3		µg/l		50.0		109	70-130		
<i>Surrogate: Dibromofluoromethane</i>	51.4		µg/l		50.0		103	70-130		
<u>LCS (1004461-BS1)</u>										
Prepared & Analyzed: 26-Feb-10										
1,1,2-Trichlorotrifluoroethane (Freon 113)	27.4	QM9	µg/l		20.0		137	70-130		
Acetone	19.8		µg/l		20.0		99	53.2-137		
Acrylonitrile	19.4		µg/l		20.0		97	70-130		
Benzene	21.3		µg/l		20.0		106	70-130		
Bromobenzene	21.7		µg/l		20.0		109	70-130		
Bromochloromethane	21.1		µg/l		20.0		105	70-130		
Bromodichloromethane	22.1		µg/l		20.0		111	70-130		
Bromoform	18.8		µg/l		20.0		94	70-130		
Bromomethane	21.7		µg/l		20.0		109	48.9-147		
2-Butanone (MEK)	21.5		µg/l		20.0		107	70-139		
n-Butylbenzene	20.7		µg/l		20.0		104	70-130		
sec-Butylbenzene	20.8		µg/l		20.0		104	70-130		
tert-Butylbenzene	20.9		µg/l		20.0		104	70-130		
Carbon disulfide	20.9		µg/l		20.0		104	70-130		
Carbon tetrachloride	20.6		µg/l		20.0		103	70-130		
Chlorobenzene	21.4		µg/l		20.0		107	70-130		
Chloroethane	20.6		µg/l		20.0		103	65.6-130		
Chloroform	21.2		µg/l		20.0		106	70-130		
Chloromethane	21.7		µg/l		20.0		108	70-130		
2-Chlorotoluene	24.5		µg/l		20.0		123	70-130		
4-Chlorotoluene	20.5		µg/l		20.0		103	70-130		
1,2-Dibromo-3-chloropropane	17.4		µg/l		20.0		87	70-130		
Dibromochloromethane	20.0		µg/l		20.0		100	52.9-130		
1,2-Dibromoethane (EDB)	20.8		µg/l		20.0		104	70-130		
Dibromomethane	19.6		µg/l		20.0		98	70-130		
1,2-Dichlorobenzene	24.3		µg/l		20.0		121	70-130		
1,3-Dichlorobenzene	23.2		µg/l		20.0		116	70-130		
1,4-Dichlorobenzene	21.4		µg/l		20.0		107	70-130		
Dichlorodifluoromethane (Freon12)	25.5		µg/l		20.0		127	63.1-130		
1,1-Dichloroethane	20.5		µg/l		20.0		102	70-130		
1,2-Dichloroethane	20.2		µg/l		20.0		101	70-130		
1,1-Dichloroethene	22.9		µg/l		20.0		114	70-130		
cis-1,2-Dichloroethene	21.0		µg/l		20.0		105	70-130		
trans-1,2-Dichloroethene	20.4		µg/l		20.0		102	70-130		
1,2-Dichloropropane	20.6		µg/l		20.0		103	70-130		
1,3-Dichloropropane	20.6		µg/l		20.0		103	70-130		
2,2-Dichloropropane	20.0		µg/l		20.0		100	70-130		
1,1-Dichloropropene	19.6		µg/l		20.0		98	70-130		
cis-1,3-Dichloropropene	17.7		µg/l		20.0		89	70-130		

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Volatile Organic Compounds - Quality Control

Analyte(s)	Result	Flag	Units	*RDL	Spike Level	Source Result	%REC	%REC Limits	RPD RPD	RPD Limit
Batch 1004461 - SW846 5030 Water MS										
LCS (1004461-BS1)										
Prepared & Analyzed: 26-Feb-10										
trans-1,3-Dichloropropene	17.3		µg/l		20.0		87	70-130		
Ethylbenzene	19.8		µg/l		20.0		99	70-130		
Hexachlorobutadiene	22.7		µg/l		20.0		113	70-130		
2-Hexanone (MBK)	15.0		µg/l		20.0		75	70-130		
Isopropylbenzene	19.6		µg/l		20.0		98	70-130		
4-Isopropyltoluene	21.2		µg/l		20.0		106	70-130		
Methyl tert-butyl ether	20.8		µg/l		20.0		104	70-130		
4-Methyl-2-pentanone (MIBK)	19.1		µg/l		20.0		96	61-130		
Methylene chloride	20.4		µg/l		20.0		102	70-130		
Naphthalene	17.3		µg/l		20.0		87	70-130		
n-Propylbenzene	19.0		µg/l		20.0		95	70-130		
Styrene	18.5		µg/l		20.0		93	70-130		
1,1,1,2-Tetrachloroethane	22.7		µg/l		20.0		114	70-130		
1,1,2,2-Tetrachloroethane	19.6		µg/l		20.0		98	70-130		
Tetrachloroethene	21.6		µg/l		20.0		108	70-130		
Toluene	20.5		µg/l		20.0		102	70-130		
1,2,3-Trichlorobenzene	22.4		µg/l		20.0		112	70-130		
1,2,4-Trichlorobenzene	19.5		µg/l		20.0		97	70-130		
1,3,5-Trichlorobenzene	20.8		µg/l		20.0		104	70-130		
1,1,1-Trichloroethane	21.5		µg/l		20.0		108	70-130		
1,1,2-Trichloroethane	20.7		µg/l		20.0		104	70-130		
Trichloroethene	21.8		µg/l		20.0		109	70-130		
Trichlorofluoromethane (Freon 11)	25.5		µg/l		20.0		128	60-172		
1,2,3-Trichloropropane	23.2		µg/l		20.0		116	70-130		
1,2,4-Trimethylbenzene	19.6		µg/l		20.0		98	70-130		
1,3,5-Trimethylbenzene	19.2		µg/l		20.0		96	70-130		
Vinyl chloride	24.1		µg/l		20.0		120	70-130		
m,p-Xylene	42.6		µg/l		40.0		106	70-130		
o-Xylene	22.0		µg/l		20.0		110	70-130		
Tetrahydrofuran	20.2		µg/l		20.0		101	70-130		
Ethyl ether	20.8		µg/l		20.0		104	70-130		
Tert-amyl methyl ether	18.6		µg/l		20.0		93	70-130		
Ethyl tert-butyl ether	20.4		µg/l		20.0		102	70-130		
Di-isopropyl ether	19.6		µg/l		20.0		98	70-130		
Tert-Butanol / butyl alcohol	202		µg/l		200		101	70-130		
1,4-Dioxane	164		µg/l		200		82	54.2-130		
trans-1,4-Dichloro-2-butene	18.8		µg/l		20.0		94	70-130		
Ethanol	419		µg/l		400		105	70-130		
Surrogate: 4-Bromofluorobenzene	50.7		µg/l		50.0		101	70-130		
Surrogate: Toluene-d8	48.6		µg/l		50.0		97	70-130		
Surrogate: 1,2-Dichloroethane-d4	49.7		µg/l		50.0		99	70-130		
Surrogate: Dibromofluoromethane	48.3		µg/l		50.0		97	70-130		
LCS Dup (1004461-BSD1)										
Prepared & Analyzed: 26-Feb-10										
1,1,2-Trichlorotrifluoroethane (Freon 113)	26.0		µg/l		20.0		130	70-130	5	25
Acetone	18.9		µg/l		20.0		95	53.2-137	5	50
Acrylonitrile	18.6		µg/l		20.0		93	70-130	4	25
Benzene	19.8		µg/l		20.0		99	70-130	7	25
Bromobenzene	20.1		µg/l		20.0		101	70-130	8	25

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Volatile Organic Compounds - Quality Control

Analyte(s)	Result	Flag	Units	*RDL	Spike Level	Source Result	%REC	%REC Limits	RPD RPD	RPD Limit
Batch 1004461 - SW846 5030 Water MS										
LCS Dup (1004461-BSD1)										
Prepared & Analyzed: 26-Feb-10										
Bromochloromethane	19.8		µg/l		20.0	99	70-130	6	25	
Bromodichloromethane	21.3		µg/l		20.0	106	70-130	4	25	
Bromoform	18.2		µg/l		20.0	91	70-130	3	25	
Bromomethane	20.5		µg/l		20.0	102	48.9-147	6	50	
2-Butanone (MEK)	22.6		µg/l		20.0	113	70-139	5	50	
n-Butylbenzene	19.1		µg/l		20.0	96	70-130	8	25	
sec-Butylbenzene	19.2		µg/l		20.0	96	70-130	8	25	
tert-Butylbenzene	19.3		µg/l		20.0	96	70-130	8	25	
Carbon disulfide	19.3		µg/l		20.0	96	70-130	8	25	
Carbon tetrachloride	19.6		µg/l		20.0	98	70-130	5	25	
Chlorobenzene	19.9		µg/l		20.0	99	70-130	8	25	
Chloroethane	18.9		µg/l		20.0	94	65.6-130	9	50	
Chloroform	20.2		µg/l		20.0	101	70-130	4	25	
Chloromethane	20.4		µg/l		20.0	102	70-130	6	25	
2-Chlorotoluene	21.9		µg/l		20.0	110	70-130	11	25	
4-Chlorotoluene	18.9		µg/l		20.0	95	70-130	8	25	
1,2-Dibromo-3-chloropropane	16.7		µg/l		20.0	84	70-130	4	25	
Dibromochloromethane	19.6		µg/l		20.0	98	52.9-130	2	50	
1,2-Dibromoethane (EDB)	20.0		µg/l		20.0	100	70-130	4	25	
Dibromomethane	19.5		µg/l		20.0	97	70-130	0.8	25	
1,2-Dichlorobenzene	22.9		µg/l		20.0	115	70-130	6	25	
1,3-Dichlorobenzene	21.7		µg/l		20.0	108	70-130	6	25	
1,4-Dichlorobenzene	20.4		µg/l		20.0	102	70-130	5	25	
Dichlorodifluoromethane (Freon12)	23.6		µg/l		20.0	118	63.1-130	7	50	
1,1-Dichloroethane	19.2		µg/l		20.0	96	70-130	6	25	
1,2-Dichloroethane	19.4		µg/l		20.0	97	70-130	4	25	
1,1-Dichloroethene	21.5		µg/l		20.0	108	70-130	6	25	
cis-1,2-Dichloroethene	19.8		µg/l		20.0	99	70-130	6	25	
trans-1,2-Dichloroethene	19.3		µg/l		20.0	97	70-130	5	25	
1,2-Dichloropropane	19.6		µg/l		20.0	98	70-130	5	25	
1,3-Dichloropropane	19.6		µg/l		20.0	98	70-130	5	25	
2,2-Dichloropropane	19.0		µg/l		20.0	95	70-130	5	25	
1,1-Dichloropropene	18.5		µg/l		20.0	92	70-130	6	25	
cis-1,3-Dichloropropene	16.9		µg/l		20.0	85	70-130	5	25	
trans-1,3-Dichloropropene	16.7		µg/l		20.0	83	70-130	4	25	
Ethylbenzene	18.7		µg/l		20.0	93	70-130	6	25	
Hexachlorobutadiene	21.0		µg/l		20.0	105	70-130	8	50	
2-Hexanone (MBK)	14.8		µg/l		20.0	74	70-130	1	25	
Isopropylbenzene	18.3		µg/l		20.0	92	70-130	7	25	
4-Isopropyltoluene	19.8		µg/l		20.0	99	70-130	7	25	
Methyl tert-butyl ether	20.1		µg/l		20.0	100	70-130	3	25	
4-Methyl-2-pentanone (MIBK)	20.0		µg/l		20.0	100	61-130	5	50	
Methylene chloride	19.1		µg/l		20.0	96	70-130	7	25	
Naphthalene	15.7		µg/l		20.0	78	70-130	10	25	
n-Propylbenzene	18.0		µg/l		20.0	90	70-130	5	25	
Styrene	17.7		µg/l		20.0	88	70-130	5	25	
1,1,1,2-Tetrachloroethane	21.8		µg/l		20.0	109	70-130	4	25	
1,1,2,2-Tetrachloroethane	18.7		µg/l		20.0	93	70-130	5	25	
Tetrachloroethene	20.5		µg/l		20.0	102	70-130	6	25	

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Volatile Organic Compounds - Quality Control

Analyte(s)	Result	Flag	Units	*RDL	Spike Level	Source Result	%REC	%REC Limits	RPD RPD	RPD Limit
Batch 1004461 - SW846 5030 Water MS										
LCS Dup (1004461-BSD1)										
Prepared & Analyzed: 26-Feb-10										
Toluene	19.4		µg/l		20.0	97	70-130	5	25	
1,2,3-Trichlorobenzene	20.8		µg/l		20.0	104	70-130	7	25	
1,2,4-Trichlorobenzene	18.3		µg/l		20.0	92	70-130	6	25	
1,3,5-Trichlorobenzene	19.4		µg/l		20.0	97	70-130	7	25	
1,1,1-Trichloroethane	20.4		µg/l		20.0	102	70-130	6	25	
1,1,2-Trichloroethane	20.0		µg/l		20.0	100	70-130	3	25	
Trichloroethylene	20.8		µg/l		20.0	104	70-130	4	25	
Trichlorofluoromethane (Freon 11)	24.1		µg/l		20.0	120	60-172	6	50	
1,2,3-Trichloropropane	22.5		µg/l		20.0	113	70-130	3	25	
1,2,4-Trimethylbenzene	18.4		µg/l		20.0	92	70-130	6	25	
1,3,5-Trimethylbenzene	18.3		µg/l		20.0	91	70-130	5	25	
Vinyl chloride	21.9		µg/l		20.0	110	70-130	9	25	
m,p-Xylene	39.8		µg/l		40.0	100	70-130	7	25	
o-Xylene	20.5		µg/l		20.0	103	70-130	7	25	
Tetrahydrofuran	19.7		µg/l		20.0	98	70-130	3	25	
Ethyl ether	20.0		µg/l		20.0	100	70-130	4	50	
Tert-amyl methyl ether	17.9		µg/l		20.0	90	70-130	4	25	
Ethyl tert-butyl ether	19.6		µg/l		20.0	98	70-130	4	25	
Di-isopropyl ether	19.0		µg/l		20.0	95	70-130	3	25	
Tert-Butanol / butyl alcohol	193		µg/l		200	97	70-130	4	25	
1,4-Dioxane	162		µg/l		200	81	54.2-130	1	25	
trans-1,4-Dichloro-2-butene	17.4		µg/l		20.0	87	70-130	8	25	
Ethanol	395		µg/l		400	99	70-130	6	30	
<i>Surrogate: 4-Bromofluorobenzene</i>	49.8		µg/l		50.0	100	70-130			
<i>Surrogate: Toluene-d8</i>	48.5		µg/l		50.0	97	70-130			
<i>Surrogate: 1,2-Dichloroethane-d4</i>	49.6		µg/l		50.0	99	70-130			
<i>Surrogate: Dibromofluoromethane</i>	47.7		µg/l		50.0	95	70-130			

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* Reportable Detection Limit BRL = Below Reporting Limit

Page 15 of 34

Semivolatile Organic Compounds by GC - Quality Control

Analyte(s)	Result	Flag	Units	*RDL	Spike Level	Source Result	%REC	%REC Limits	RPD RPD	RPD Limit
Batch 1004365 - SW846 3510C										
<u>Blank (1004365-BLK1)</u>										
Prepared & Analyzed: 25-Feb-10										
alpha-BHC	BRL		µg/l	0.020						
alpha-BHC [2C]	BRL		µg/l	0.020						
beta-BHC	BRL		µg/l	0.020						
beta-BHC [2C]	BRL		µg/l	0.020						
delta-BHC	BRL		µg/l	0.020						
delta-BHC [2C]	BRL		µg/l	0.020						
gamma-BHC (Lindane)	BRL		µg/l	0.020						
gamma-BHC (Lindane) [2C]	BRL		µg/l	0.020						
Heptachlor	BRL		µg/l	0.020						
Heptachlor [2C]	BRL		µg/l	0.020						
Aldrin	BRL		µg/l	0.020						
Aldrin [2C]	BRL		µg/l	0.020						
Heptachlor epoxide	BRL		µg/l	0.020						
Heptachlor epoxide [2C]	BRL		µg/l	0.020						
Endosulfan I	BRL		µg/l	0.020						
Endosulfan I [2C]	BRL		µg/l	0.020						
Dieldrin	BRL		µg/l	0.020						
Dieldrin [2C]	BRL		µg/l	0.020						
4,4'-DDE (p,p')	BRL		µg/l	0.020						
4,4'-DDE (p,p') [2C]	BRL		µg/l	0.020						
Endrin	BRL		µg/l	0.040						
Endrin [2C]	BRL		µg/l	0.040						
Endosulfan II	BRL		µg/l	0.040						
Endosulfan II [2C]	BRL		µg/l	0.040						
4,4'-DDD (p,p')	BRL		µg/l	0.040						
4,4'-DDD (p,p') [2C]	BRL		µg/l	0.040						
Endosulfan sulfate	BRL		µg/l	0.040						
Endosulfan sulfate [2C]	BRL		µg/l	0.040						
4,4'-DDT (p,p')	BRL		µg/l	0.040						
4,4'-DDT (p,p') [2C]	BRL		µg/l	0.040						
Methoxychlor	BRL		µg/l	0.040						
Methoxychlor [2C]	BRL		µg/l	0.040						
Endrin ketone	BRL		µg/l	0.040						
Endrin ketone [2C]	BRL		µg/l	0.040						
Endrin aldehyde	BRL		µg/l	0.040						
Endrin aldehyde [2C]	BRL		µg/l	0.040						
alpha-Chlordane	BRL		µg/l	0.020						
alpha-Chlordane [2C]	BRL		µg/l	0.020						
gamma-Chlordane	BRL		µg/l	0.020						
gamma-Chlordane [2C]	BRL		µg/l	0.020						
Toxaphene	BRL		µg/l	0.500						
Toxaphene [2C]	BRL		µg/l	0.500						
Chlordane	BRL		µg/l	0.065						
Chlordane [2C]	BRL		µg/l	0.065						
Alachlor	BRL		µg/l	0.020						
Alachlor [2C]	BRL		µg/l	0.020						
Surrogate: 4,4-DB-Octafluorobiphenyl (Sr)	0.129		µg/l		0.200		65	30-150		
Surrogate: 4,4-DB-Octafluorobiphenyl (Sr) [2C]	0.118		µg/l		0.200		59	30-150		

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* Reportable Detection Limit

BRL = Below Reporting Limit

Page 16 of 34

Semivolatile Organic Compounds by GC - Quality Control

Analyte(s)	Result	Flag	Units	*RDL	Spike Level	Source Result	%REC	%REC Limits	RPD RPD	RPD Limit
Batch 1004365 - SW846 3510C										
<u>Blank (1004365-BLK1)</u>										
Prepared & Analyzed: 25-Feb-10										
<i>Surrogate: Decachlorobiphenyl (Sr)</i> 0.130 µg/l 0.200 65 30-150										
<i>Surrogate: Decachlorobiphenyl (Sr) [2C]</i> 0.138 µg/l 0.200 69 30-150										
<u>LCS (1004365-BS1)</u>										
Prepared & Analyzed: 25-Feb-10										
alpha-BHC	0.485		µg/l	0.020	0.500	97	40-140			
alpha-BHC [2C]	0.490		µg/l	0.020	0.500	98	40-140			
beta-BHC	0.493		µg/l	0.020	0.500	99	40-140			
beta-BHC [2C]	0.515		µg/l	0.020	0.500	103	40-140			
delta-BHC	0.454		µg/l	0.020	0.500	91	40-140			
delta-BHC [2C]	0.451		µg/l	0.020	0.500	90	40-140			
gamma-BHC (Lindane)	0.511		µg/l	0.020	0.500	102	50-120			
gamma-BHC (Lindane) [2C]	0.516		µg/l	0.020	0.500	103	50-120			
Heptachlor	0.512		µg/l	0.020	0.500	102	40-140			
Heptachlor [2C]	0.492		µg/l	0.020	0.500	98	40-140			
Aldrin	0.479		µg/l	0.020	0.500	96	40-140			
Aldrin [2C]	0.474		µg/l	0.020	0.500	95	40-140			
Heptachlor epoxide	0.485		µg/l	0.020	0.500	97	50-140			
Heptachlor epoxide [2C]	0.492		µg/l	0.020	0.500	98	50-140			
Endosulfan I	0.458		µg/l	0.020	0.500	92	40-140			
Endosulfan I [2C]	0.479		µg/l	0.020	0.500	96	40-140			
Dieldrin	0.487		µg/l	0.020	0.500	97	40-130			
Dieldrin [2C]	0.499		µg/l	0.020	0.500	100	40-130			
4,4'-DDE (p,p')	0.484		µg/l	0.020	0.500	97	50-140			
4,4'-DDE (p,p') [2C]	0.482		µg/l	0.020	0.500	96	50-140			
Endrin	0.452		µg/l	0.040	0.500	90	50-120			
Endrin [2C]	0.466		µg/l	0.040	0.500	93	50-120			
Endosulfan II	0.475		µg/l	0.040	0.500	95	40-140			
Endosulfan II [2C]	0.501		µg/l	0.040	0.500	100	40-140			
4,4'-DDD (p,p')	0.492		µg/l	0.040	0.500	98	40-140			
4,4'-DDD (p,p') [2C]	0.480		µg/l	0.040	0.500	96	40-140			
Endosulfan sulfate	0.431		µg/l	0.040	0.500	86	50-120			
Endosulfan sulfate [2C]	0.443		µg/l	0.040	0.500	89	50-120			
4,4'-DDT (p,p')	0.564		µg/l	0.040	0.500	113	40-140			
4,4'-DDT (p,p') [2C]	0.508		µg/l	0.040	0.500	102	40-140			
Methoxychlor	0.476		µg/l	0.040	0.500	95	40-140			
Methoxychlor [2C]	0.453		µg/l	0.040	0.500	91	40-140			
Endrin ketone	0.483		µg/l	0.040	0.500	97	40-140			
Endrin ketone [2C]	0.511		µg/l	0.040	0.500	102	40-140			
Endrin aldehyde	0.501		µg/l	0.040	0.500	100	40-140			
Endrin aldehyde [2C]	0.384		µg/l	0.040	0.500	77	40-140			
alpha-Chlordane	0.480		µg/l	0.020	0.500	96	40-140			
alpha-Chlordane [2C]	0.495		µg/l	0.020	0.500	99	40-140			
gamma-Chlordane	0.491		µg/l	0.020	0.500	98	40-130			
gamma-Chlordane [2C]	0.488		µg/l	0.020	0.500	98	40-130			
Alachlor	0.461		µg/l	0.020	0.500	92	40-140			
Alachlor [2C]	0.460		µg/l	0.020	0.500	92	40-140			
<i>Surrogate: 4,4-DB-Octafluorobiphenyl (Sr)</i> 0.128 µg/l 0.200 64 30-150										

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Semivolatile Organic Compounds by GC - Quality Control

Analyte(s)	Result	Flag	Units	*RDL	Spike Level	Source Result	%REC	%REC Limits	RPD RPD	RPD Limit
Batch 1004365 - SW846 3510C										
LCS (1004365-BS1)										
Prepared & Analyzed: 25-Feb-10										
<i>Surrogate: 4,4'-DB-Octafluorobiphenyl (Sr) [2C]</i>										
<i>Surrogate: Decachlorobiphenyl (Sr)</i>	0.133		µg/l		0.200		66	30-150		
<i>Surrogate: Decachlorobiphenyl (Sr) [2C]</i>	0.135		µg/l		0.200		67	30-150		
<i>Surrogate: Decachlorobiphenyl (Sr) [2C]</i>	0.160		µg/l		0.200		80	30-150		
LCS Dup (1004365-BSD1)										
Prepared & Analyzed: 25-Feb-10										
alpha-BHC	0.493		µg/l	0.020	0.500		99	40-140	2	20
alpha-BHC [2C]	0.496		µg/l	0.020	0.500		99	40-140	1	20
beta-BHC	0.502		µg/l	0.020	0.500		100	40-140	2	20
beta-BHC [2C]	0.522		µg/l	0.020	0.500		104	40-140	1	20
delta-BHC	0.459		µg/l	0.020	0.500		92	40-140	1	20
delta-BHC [2C]	0.455		µg/l	0.020	0.500		91	40-140	1	20
gamma-BHC (Lindane)	0.519		µg/l	0.020	0.500		104	50-120	2	20
gamma-BHC (Lindane) [2C]	0.521		µg/l	0.020	0.500		104	50-120	0.9	20
Heptachlor	0.517		µg/l	0.020	0.500		103	40-140	1	20
Heptachlor [2C]	0.497		µg/l	0.020	0.500		99	40-140	1	20
Aldrin	0.487		µg/l	0.020	0.500		97	40-140	2	20
Aldrin [2C]	0.477		µg/l	0.020	0.500		95	40-140	0.6	20
Heptachlor epoxide	0.495		µg/l	0.020	0.500		99	50-140	2	20
Heptachlor epoxide [2C]	0.497		µg/l	0.020	0.500		99	50-140	1	20
Endosulfan I	0.465		µg/l	0.020	0.500		93	40-140	1	20
Endosulfan I [2C]	0.484		µg/l	0.020	0.500		97	40-140	1	20
Dieldrin	0.487		µg/l	0.020	0.500		97	40-130	0.06	20
Dieldrin [2C]	0.505		µg/l	0.020	0.500		101	40-130	1	20
4,4'-DDE (p,p')	0.491		µg/l	0.020	0.500		98	50-140	1	20
4,4'-DDE (p,p') [2C]	0.488		µg/l	0.020	0.500		98	50-140	1	20
Endrin	0.458		µg/l	0.040	0.500		92	50-120	1	20
Endrin [2C]	0.474		µg/l	0.040	0.500		95	50-120	2	20
Endosulfan II	0.481		µg/l	0.040	0.500		96	40-140	1	20
Endosulfan II [2C]	0.506		µg/l	0.040	0.500		101	40-140	1	20
4,4'-DDD (p,p')	0.492		µg/l	0.040	0.500		98	40-140	0.1	20
4,4'-DDD (p,p') [2C]	0.487		µg/l	0.040	0.500		97	40-140	1	20
Endosulfan sulfate	0.436		µg/l	0.040	0.500		87	50-120	1	20
Endosulfan sulfate [2C]	0.449		µg/l	0.040	0.500		90	50-120	1	20
4,4'-DDT (p,p')	0.567		µg/l	0.040	0.500		113	40-140	0.5	20
4,4'-DDT (p,p') [2C]	0.519		µg/l	0.040	0.500		104	40-140	2	20
Methoxychlor	0.484		µg/l	0.040	0.500		97	40-140	2	20
Methoxychlor [2C]	0.458		µg/l	0.040	0.500		92	40-140	1	20
Endrin ketone	0.489		µg/l	0.040	0.500		98	40-140	1	20
Endrin ketone [2C]	0.517		µg/l	0.040	0.500		103	40-140	1	20
Endrin aldehyde	0.509		µg/l	0.040	0.500		102	40-140	1	20
Endrin aldehyde [2C]	0.393		µg/l	0.040	0.500		79	40-140	2	20
alpha-Chlordane	0.486		µg/l	0.020	0.500		97	40-140	1	20
alpha-Chlordane [2C]	0.497		µg/l	0.020	0.500		99	40-140	0.4	20
gamma-Chlordane	0.499		µg/l	0.020	0.500		100	40-130	2	20
gamma-Chlordane [2C]	0.494		µg/l	0.020	0.500		99	40-130	1	20
Alachlor	0.464		µg/l	0.020	0.500		93	40-140	0.8	20
Alachlor [2C]	0.463		µg/l	0.020	0.500		93	40-140	0.8	20

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Semivolatile Organic Compounds by GC - Quality Control

Analyte(s)	Result	Flag	Units	*RDL	Spike Level	Source Result	%REC	%REC Limits	RPD RPD	RPD Limit
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Batch 1004365 - SW846 3510C

LCS Dup (1004365-BSD1)

Prepared & Analyzed: 25-Feb-10

Surrogate: 4,4-DB-Octafluorobiphenyl (Sr)	0.131	µg/l		0.200		65	30-150
Surrogate: 4,4-DB-Octafluorobiphenyl (Sr) [2C]	0.133	µg/l		0.200		66	30-150
Surrogate: Decachlorobiphenyl (Sr)	0.138	µg/l		0.200		69	30-150
Surrogate: Decachlorobiphenyl (Sr) [2C]	0.159	µg/l		0.200		80	30-150

Extractable Petroleum Hydrocarbons - Quality Control

Analyte(s)	Result	Flag	Units	*RDL	Spike Level	Source Result	%REC	%REC Limits	RPD RPD	RPD Limit
Batch 1004356 - SW846 3510C										
<u>Blank (1004356-BLK1)</u>										
Prepared & Analyzed: 25-Feb-10										
C9-C18 Aliphatic Hydrocarbons	BRL		mg/l	0.05						
C19-C36 Aliphatic Hydrocarbons	BRL		mg/l	0.05						
C11-C22 Aromatic Hydrocarbons	BRL		mg/l	0.05						
Unadjusted C11-C22 Aromatic Hydrocarbons	BRL		mg/l	0.05						
Total Petroleum Hydrocarbons	BRL		mg/l	0.05						
Unadjusted Total Petroleum Hydrocarbons	BRL		mg/l	0.05						
Naphthalene	BRL		µg/l	2.50						
2-Methylnaphthalene	BRL		µg/l	2.50						
Acenaphthylene	BRL		µg/l	2.50						
Acenaphthene	BRL		µg/l	2.50						
Fluorene	BRL		µg/l	2.50						
Phenanthrene	BRL		µg/l	2.50						
Anthracene	BRL		µg/l	2.50						
Fluoranthene	BRL		µg/l	2.50						
Pyrene	BRL		µg/l	2.50						
Benzo (a) anthracene	BRL		µg/l	2.50						
Chrysene	BRL		µg/l	2.50						
Benzo (b) fluoranthene	BRL		µg/l	2.50						
Benzo (k) fluoranthene	BRL		µg/l	2.50						
Benzo (a) pyrene	BRL		µg/l	2.50						
Indeno (1,2,3-cd) pyrene	BRL		µg/l	2.50						
Dibenzo (a,h) anthracene	BRL		µg/l	2.50						
Benzo (g,h,i) perylene	BRL		µg/l	2.50						
<i>Surrogate: 1-Chlorooctadecane</i>	43.8		µg/l		50.0		88	40-140		
<i>Surrogate: Ortho-Terphenyl</i>	35.9		µg/l		50.0		72	40-140		
<i>Surrogate: 2-Fluorobiphenyl</i>	32.4		µg/l		40.0		81	40-140		
<u>LCS (1004356-BS1)</u>										
Prepared & Analyzed: 25-Feb-10										
C9-C18 Aliphatic Hydrocarbons	0.392		mg/l	0.05	0.600		65	40-140		
C19-C36 Aliphatic Hydrocarbons	0.676		mg/l	0.05	0.800		84	40-140		
C11-C22 Aromatic Hydrocarbons	1.07		mg/l	0.05	1.70		63	40-140		
Naphthalene	40.2		µg/l	2.50	100		40	40-140		
2-Methylnaphthalene	44.7		µg/l	2.50	100		45	40-140		
Acenaphthylene	53.8		µg/l	2.50	100		54	40-140		
Acenaphthene	53.1		µg/l	2.50	100		53	40-140		
Fluorene	57.2		µg/l	2.50	100		57	40-140		
Phenanthrene	62.0		µg/l	2.50	100		62	40-140		
Anthracene	59.7		µg/l	2.50	100		60	40-140		
Fluoranthene	65.1		µg/l	2.50	100		65	40-140		
Pyrene	65.5		µg/l	2.50	100		66	40-140		
Benzo (a) anthracene	70.1		µg/l	2.50	100		70	40-140		
Chrysene	67.3		µg/l	2.50	100		67	40-140		
Benzo (b) fluoranthene	65.3		µg/l	2.50	100		65	40-140		
Benzo (k) fluoranthene	69.9		µg/l	2.50	100		70	40-140		
Benzo (a) pyrene	65.1		µg/l	2.50	100		65	40-140		
Indeno (1,2,3-cd) pyrene	62.9		µg/l	2.50	100		63	40-140		
Dibenzo (a,h) anthracene	62.7		µg/l	2.50	100		63	40-140		
Benzo (g,h,i) perylene	60.9		µg/l	2.50	100		61	40-140		

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* Reportable Detection Limit

BRL = Below Reporting Limit

Page 20 of 34

Extractable Petroleum Hydrocarbons - Quality Control

Analyte(s)	Result	Flag	Units	*RDL	Spike Level	Source Result	%REC	%REC Limits	RPD RPD	RPD Limit
Batch 1004356 - SW846 3510C										
LCS (1004356-BS1)										
Prepared & Analyzed: 25-Feb-10										
Naphthalene (aliphatic fraction)	0.000100		µg/l		100		0.0001	0-200		
2-Methylnaphthalene (aliphatic fraction)	0.000100		µg/l		100		0.0001	0-200		
<i>Surrogate: 1-Chlorooctadecane</i>	39.7		µg/l		50.0		79	40-140		
<i>Surrogate: Ortho-Terphenyl</i>	33.4		µg/l		50.0		67	40-140		
<i>Surrogate: 2-Fluorobiphenyl</i>	29.4		µg/l		40.0		74	40-140		
Naphthalene Breakthrough	0.00		%					0-5		
2-Methylnaphthalene Breakthrough	0.00		%					0-5		
LCS (1004356-BS2)										
Prepared & Analyzed: 25-Feb-10										
C9-C18 Aliphatic Hydrocarbons	0.367		mg/l	0.05	0.600		61	40-140		
C19-C36 Aliphatic Hydrocarbons	0.585		mg/l	0.05	0.800		73	40-140		
C11-C22 Aromatic Hydrocarbons	1.33		mg/l	0.05	1.70		78	40-140		
Naphthalene	63.1		µg/l	2.50	100		63	40-140		
2-Methylnaphthalene	65.3		µg/l	2.50	100		65	40-140		
Acenaphthylene	73.2		µg/l	2.50	100		73	40-140		
Acenaphthene	71.1		µg/l	2.50	100		71	40-140		
Fluorene	73.1		µg/l	2.50	100		73	40-140		
Phenanthrene	75.4		µg/l	2.50	100		75	40-140		
Anthracene	74.5		µg/l	2.50	100		74	40-140		
Fluoranthene	75.2		µg/l	2.50	100		75	40-140		
Pyrene	75.1		µg/l	2.50	100		75	40-140		
Benzo (a) anthracene	78.2		µg/l	2.50	100		78	40-140		
Chrysene	75.8		µg/l	2.50	100		76	40-140		
Benzo (b) fluoranthene	85.1		µg/l	2.50	100		85	40-140		
Benzo (k) fluoranthene	80.7		µg/l	2.50	100		81	40-140		
Benzo (a) pyrene	76.4		µg/l	2.50	100		76	40-140		
Indeno (1,2,3-cd) pyrene	83.3		µg/l	2.50	100		83	40-140		
Dibenzo (a,h) anthracene	82.7		µg/l	2.50	100		83	40-140		
Benzo (g,h,i) perylene	83.7		µg/l	2.50	100		84	40-140		
Naphthalene (aliphatic fraction)	0.00		µg/l		100			0-200		
2-Methylnaphthalene (aliphatic fraction)	0.00		µg/l		100			0-200		
<i>Surrogate: 1-Chlorooctadecane</i>	35.2		µg/l		50.0		70	40-140		
<i>Surrogate: Ortho-Terphenyl</i>	40.7		µg/l		50.0		81	40-140		
<i>Surrogate: 2-Fluorobiphenyl</i>	33.5		µg/l		40.0		84	40-140		
Naphthalene Breakthrough	0.00		%					0-5		
2-Methylnaphthalene Breakthrough	0.00		%					0-5		
LCS Dup (1004356-BSD1)										
Prepared & Analyzed: 25-Feb-10										
C9-C18 Aliphatic Hydrocarbons	0.415		mg/l	0.05	0.600		69	40-140	6	25
C19-C36 Aliphatic Hydrocarbons	0.717		mg/l	0.05	0.800		90	40-140	6	25
C11-C22 Aromatic Hydrocarbons	1.05		mg/l	0.05	1.70		62	40-140	2	25
Naphthalene	41.9		µg/l	2.50	100		42	40-140	4	20
2-Methylnaphthalene	46.6		µg/l	2.50	100		47	40-140	4	20
Acenaphthylene	55.8		µg/l	2.50	100		56	40-140	4	20
Acenaphthene	54.4		µg/l	2.50	100		54	40-140	2	20
Fluorene	58.4		µg/l	2.50	100		58	40-140	2	20
Phenanthrene	62.5		µg/l	2.50	100		63	40-140	0.8	20
Anthracene	60.5		µg/l	2.50	100		60	40-140	1	20
Fluoranthene	64.6		µg/l	2.50	100		65	40-140	0.7	20

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Extractable Petroleum Hydrocarbons - Quality Control

Analyte(s)	Result	Flag	Units	*RDL	Spike Level	Source Result	%REC	%REC Limits	RPD RPD	RPD Limit
Batch 1004356 - SW846 3510C										
LCS Dup (1004356-BSD1)										
Prepared & Analyzed: 25-Feb-10										
Pyrene	64.0		µg/l	2.50	100	64	40-140	2	20	
Benzo (a) anthracene	62.5		µg/l	2.50	100	62	40-140	11	20	
Chrysene	63.3		µg/l	2.50	100	63	40-140	6	20	
Benzo (b) fluoranthene	59.3		µg/l	2.50	100	59	40-140	10	20	
Benzo (k) fluoranthene	64.7		µg/l	2.50	100	65	40-140	8	20	
Benzo (a) pyrene	60.0		µg/l	2.50	100	60	40-140	8	20	
Indeno (1,2,3-cd) pyrene	56.7		µg/l	2.50	100	57	40-140	10	20	
Dibenzo (a,h) anthracene	56.7		µg/l	2.50	100	57	40-140	10	20	
Benzo (g,h,i) perylene	55.4		µg/l	2.50	100	55	40-140	9	20	
Naphthalene (aliphatic fraction)	0.000100		µg/l		100	0.0001	0-200	0	200	
2-Methylnaphthalene (aliphatic fraction)	0.000100		µg/l		100	0.0001	0-200	0	200	
<i>Surrogate: 1-Chlorooctadecane</i>	42.3		µg/l		50.0	85	40-140			
<i>Surrogate: Ortho-Terphenyl</i>	34.0		µg/l		50.0	68	40-140			
<i>Surrogate: 2-Fluorobiphenyl</i>	31.1		µg/l		40.0	78	40-140			
Naphthalene Breakthrough	0.00		%				0-5			
2-Methylnaphthalene Breakthrough	0.00		%				0-5			

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Soluble Metals by EPA 6000/7000 Series Methods - Quality Control

Analyte(s)	Result	Flag	Units	*RDL	Spike Level	Source Result	%REC	%REC Limits	RPD RPD	RPD Limit
Batch 1004333 - SW846 3005A										
<u>Blank (1004333-BLK1)</u>										
Prepared: 24-Feb-10 Analyzed: 25-Feb-10										
Lead	BRL		mg/l	0.0075						
Chromium	BRL		mg/l	0.0050						
Arsenic	BRL		mg/l	0.0040						
<u>LCS (1004333-BS1)</u>										
Prepared: 24-Feb-10 Analyzed: 25-Feb-10										
Lead	1.28		mg/l	0.0075	1.25		102	85-115		
Arsenic	1.25		mg/l	0.0040	1.25		100	85-115		
Chromium	1.25		mg/l	0.0050	1.25		100	85-115		
<u>LCS Dup (1004333-BSD1)</u>										
Prepared: 24-Feb-10 Analyzed: 25-Feb-10										
Lead	1.31		mg/l	0.0075	1.25		105	85-115	3	20
Chromium	1.27		mg/l	0.0050	1.25		102	85-115	2	20
Arsenic	1.30		mg/l	0.0040	1.25		104	85-115	4	20
<u>Duplicate (1004333-DUP1)</u>		Source: SB08314-01								
Prepared: 24-Feb-10 Analyzed: 25-Feb-10										
Lead	BRL		mg/l	0.0075		BRL				20
Arsenic	BRL		mg/l	0.0040		BRL				20
Chromium	BRL		mg/l	0.0050		BRL				20
<u>Matrix Spike (1004333-MS1)</u>		Source: SB08314-02								
Prepared: 24-Feb-10 Analyzed: 25-Feb-10										
Lead	1.28		mg/l	0.0075	1.25	BRL	103	75-125		
Chromium	1.26		mg/l	0.0050	1.25	BRL	101	75-125		
Arsenic	1.29		mg/l	0.0040	1.25	BRL	103	75-125		
<u>Matrix Spike Dup (1004333-MSD1)</u>		Source: SB08314-02								
Prepared: 24-Feb-10 Analyzed: 25-Feb-10										
Lead	1.29		mg/l	0.0075	1.25	BRL	103	75-125	0.4	20
Arsenic	1.29		mg/l	0.0040	1.25	BRL	103	75-125	0.3	20
Chromium	1.26		mg/l	0.0050	1.25	BRL	101	75-125	0.2	20
<u>Post Spike (1004333-PS1)</u>		Source: SB08314-02								
Prepared: 24-Feb-10 Analyzed: 25-Feb-10										
Lead	1.30		mg/l	0.0075	1.25	BRL	104	80-120		
Arsenic	1.31		mg/l	0.0040	1.25	BRL	105	80-120		
Chromium	1.27		mg/l	0.0050	1.25	BRL	102	80-120		

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* Reportable Detection Limit

BRL = Below Reporting Limit

Page 23 of 34

Extractable Petroleum Hydrocarbons - CCV Evaluation Report

Analyte	Average			
	RF	CCRF	% D	Limit
Batch S001630				
Calibration Check (S001630-CCV1)				
C9-C18 Aliphatic Hydrocarbons	1.917982E+11	1.63012E+08	-2.3	25.00
C19-C36 Aliphatic Hydrocarbons	2.789856E+11	1.853455E+08	-4.1	25.00
C11-C22 Aromatic Hydrocarbons	14402.05	15.1682	0.6	25.00
Naphthalene	7.376157	7.684869	4.2	25.00
2-Methylnaphthalene	4.707227	4.861107	3.3	25.00
Acenaphthylene	6.537897	6.831791	4.5	25.00
Acenaphthene	4.47941	4.577873	2.2	25.00
Fluorene	4.849213	5.002636	3.2	25.00
Phenanthrene	6.269748	6.349453	1.3	25.00
Anthracene	6.841884	6.882199	0.6	25.00
Fluoranthene	6.528034	6.677392	2.3	25.00
Pyrene	6.631029	6.721843	1.4	25.00
Benzo (a) anthracene	5.362668	5.322872	-0.7	25.00
Chrysene	5.706561	5.645939	-1.1	25.00
Benzo (b) fluoranthene	4.642029	4.007506	-13.7	25.00
Benzo (k) fluoranthene	5.365238	5.475569	2.1	25.00
Benzo (a) pyrene	4.344727	4.404268	1.4	25.00
Indeno (1,2,3-cd) pyrene	4.526842	4.681557	3.4	25.00
Dibenzo (a,h) anthracene	3.714037	3.821294	2.9	25.00
Benzo (g,h,i) perylene	4.065439	4.220219	3.8	25.00
5-alpha-Androstan	1	1	0.0	
5-alpha-Androstan	16771.68	1	-100	

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* Reportable Detection Limit BRL = Below Reporting Limit

Page 24 of 34

Extractable Petroleum Hydrocarbons - CCV Evaluation Report

Analyte	Average RF	CCRF	% D	Limit
Semivolatile Organic Compounds by GC - CCV Evaluation Report				
Analyte	Average RF	CCRF	% D	Limit
Batch S001600				
Calibration Check (S001600-CCV1)				
alpha-BHC	1.354213	1.470682	8.6	15.00
alpha-BHC [2C]	1.429927	1.469899	2.8	15.00
beta-BHC	0.6185299	0.6309183	2.0	15.00
beta-BHC [2C]	0.6487855	0.6463689	-0.4	15.00
delta-BHC	1.256979	1.3586	8.1	15.00
delta-BHC [2C]	1.340415	1.409531	5.2	15.00
gamma-BHC (Lindane)	1.254347	1.35766	8.2	15.00
gamma-BHC (Lindane) [2C]	1.324069	1.375473	3.9	15.00
Heptachlor	1.219925	1.313557	7.7	15.00
Heptachlor [2C]	1.30846	1.301413	-0.5	15.00
Aldrin	1.111679	1.134351	2.0	15.00
Aldrin [2C]	1.165945	1.158724	-0.6	15.00
Heptachlor epoxide	1.111684	1.124103	1.1	15.00
Heptachlor epoxide [2C]	1.159289	1.147821	-1.0	15.00
Endosulfan I	1.032721	1.03711	0.4	15.00
Endosulfan I [2C]	1.068983	1.071359	0.2	15.00
Dieldrin	1.089873	1.100711	1.0	15.00
Dieldrin [2C]	1.13823	1.135546	-0.2	15.00
4,4'-DDE (p,p')	1.008468	1.01185	0.3	15.00
4,4'-DDE (p,p') [2C]	1.065937	1.059225	-0.6	15.00
Endrin	1.044551	0.9605004	-8.0	15.00
Endrin [2C]	1.071196	0.9983177	-6.8	15.00
Endosulfan II	1.01201	0.9949538	-1.7	15.00
Endosulfan II [2C]	1.011755	1.033702	2.2	15.00
4,4'-DDD (p,p')	0.9018101	0.8913738	-1.2	15.00
4,4'-DDD (p,p') [2C]	0.916703	0.9209577	0.5	15.00
Endosulfan sulfate	1.02572	1.002536	-2.3	15.00
Endosulfan sulfate [2C]	1.042881	1.043096	0.02	15.00
4,4'-DDT (p,p')	0.8584947	0.8687634	1.2	15.00
4,4'-DDT (p,p') [2C]	0.9306792	0.8866115	-4.7	15.00
Methoxychlor	0.5815592	0.5447045	-6.3	15.00
Methoxychlor [2C]	0.6225198	0.5365648	-13.8	15.00
Endrin ketone	1.187463	1.17907	-0.7	15.00
Endrin ketone [2C]	1.211979	1.279144	5.5	15.00
Endrin aldehyde	0.7322403	0.7038157	-3.9	15.00
Endrin aldehyde [2C]	0.7621807	0.7503598	-1.6	15.00
alpha-Chlordane	1.103173	1.100079	-0.3	15.00
alpha-Chlordane [2C]	1.134963	1.121716	-1.2	15.00
gamma-Chlordane	1.128295	1.113943	-1.3	15.00
gamma-Chlordane [2C]	1.164808	1.143513	-1.8	15.00
Alachlor	0.1910912	0.1875943	-1.8	15.00
Alachlor [2C]	0.1973142	0.1964381	-0.4	15.00
4,4-DB-Octafluorobiphenyl (Sr)	1.197246	1.048453	-12.4	
4,4-DB-Octafluorobiphenyl (Sr) [2C]	1.135297	0.9651428	-15.0	
Decachlorobiphenyl (Sr)	0.8732022	0.6894169	-21.0	
Decachlorobiphenyl (Sr) [2C]	0.7484322	0.7414121	-0.9	
2,4,5,6-TC-M-Xylene (IS)	1	1	0.0	

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* Reportable Detection Limit BRL = Below Reporting Limit

Page 25 of 34

Semivolatile Organic Compounds by GC - CCV Evaluation Report

Analyte	Average	RF	CCRF	% D	Limit
Batch S001600					
Calibration Check (S001600-CCV1)					
2,4,5,6-TC-M-Xylene (IS) [2C]		1	1	0.0	

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* Reportable Detection Limit BRL = Below Reporting Limit

Page 26 of 34

Semivolatile Organic Compounds by GC - CCV Evaluation Report

Analyte	Average RF	CCRF	% D	Limit
Batch S001600				
Calibration Check (S001600-CCV2)				
alpha-BHC	1.354213	1.472188	8.7	15.00
alpha-BHC [2C]	1.429927	1.490422	4.2	15.00
beta-BHC	0.6185299	0.6262997	1.3	15.00
beta-BHC [2C]	0.6487855	0.6609385	1.9	15.00
delta-BHC	1.256979	1.345076	7.0	15.00
delta-BHC [2C]	1.340415	1.441338	7.5	15.00
gamma-BHC (Lindane)	1.254347	1.35067	7.7	15.00
gamma-BHC (Lindane) [2C]	1.324069	1.396157	5.4	15.00
Heptachlor	1.219925	1.287696	5.6	15.00
Heptachlor [2C]	1.30846	1.300397	-0.6	15.00
Aldrin	1.111679	1.131201	1.8	15.00
Aldrin [2C]	1.165945	1.186584	1.8	15.00
Heptachlor epoxide	1.111684	1.115842	0.4	15.00
Heptachlor epoxide [2C]	1.159289	1.192359	2.9	15.00
Endosulfan I	1.032721	1.035682	0.3	15.00
Endosulfan I [2C]	1.068983	1.121735	4.9	15.00
Dieldrin	1.089873	1.099154	0.9	15.00
Dieldrin [2C]	1.13823	1.194309	4.9	15.00
4,4'-DDE (p,p')	1.008468	1.011873	0.3	15.00
4,4'-DDE (p,p') [2C]	1.065937	1.117574	4.8	15.00
Endrin	1.044551	0.9386923	-10.1	15.00
Endrin [2C]	1.071196	1.027253	-4.1	15.00
Endosulfan II	1.01201	0.9804635	-3.1	15.00
Endosulfan II [2C]	1.011755	1.091711	7.9	15.00
4,4'-DDD (p,p')	0.9018101	0.9033318	0.2	15.00
4,4'-DDD (p,p') [2C]	0.916703	1.009404	10.1	15.00
Endosulfan sulfate	1.02572	0.9701198	-5.4	15.00
Endosulfan sulfate [2C]	1.042881	1.09386	4.9	15.00
4,4'-DDT (p,p')	0.8584947	0.8122262	-5.4	15.00
4,4'-DDT (p,p') [2C]	0.9306792	0.8517176	-8.5	15.00
Methoxychlor	0.5815592	0.5031207	-13.5	15.00
Methoxychlor [2C]	0.6225198	0.5354475	-14.0	15.00
Endrin ketone	1.187463	1.158522	-2.4	15.00
Endrin ketone [2C]	1.211979	1.372719	13.3	15.00
Endrin aldehyde	0.7322403	0.6890113	-5.9	15.00
Endrin aldehyde [2C]	0.7621807	0.787549	3.3	15.00
alpha-Chlordane	1.103173	1.09423	-0.8	15.00
alpha-Chlordane [2C]	1.134963	1.167593	2.9	15.00
gamma-Chlordane	1.128295	1.10503	-2.1	15.00
gamma-Chlordane [2C]	1.164808	1.192355	2.4	15.00
Alachlor	0.1910912	0.1846306	-3.4	15.00
Alachlor [2C]	0.1973142	0.2006977	1.7	15.00
4,4-DB-Octafluorobiphenyl (Sr)	1.197246	1.04914	-12.4	
4,4-DB-Octafluorobiphenyl (Sr) [2C]	1.135297	0.9791873	-13.8	
Decachlorobiphenyl (Sr)	0.8732022	0.6583513	-24.6	
Decachlorobiphenyl (Sr) [2C]	0.7484322	0.7738764	3.4	
2,4,5,6-TC-M-Xylene (IS)	1	1	0.0	
2,4,5,6-TC-M-Xylene (IS) [2C]	1	1	0.0	

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Semivolatile Organic Compounds by GC - CCV Evaluation Report

Analyte	Average			
	RF	CCRF	% D	Limit

Volatile Organic Compounds - CCV Evaluation Report

Analyte	Average			
	RF	CCRF	% D	Limit
Batch S001545				
Calibration Check (S001545-CCV1)				
Benzene	192231.6	188020.9	-2.2	30.00
Ethylbenzene	135340.5	133046.3	-1.7	20.00
Methyl tert-butyl ether	49395.86	47452.04	-3.9	30.00
Naphthalene	120448.5	121163.6	0.6	30.00
Toluene	165099.8	160975.9	-2.5	20.00
m,p-Xylene	158011.5	155479.6	-1.6	30.00
o-Xylene	137667	135749.4	-1.4	30.00
2-Methylpentane	32711.75	34587.04	5.7	25.00
n-Pentane	30131.95	31768.78	5.4	25.00
1,2,4-Trimethylbenzene	132997.7	132006.9	-0.7	30.00
2,2,4-Trimethylpentane	33889.37	35653.2	5.2	25.00
n-Butylcyclohexane	30962.94	30093.42	-2.8	25.00
n-Decane	25789.8	24231.68	-6.0	25.00
2,5-Dibromotoluene (FID)	14375.28	30079.78	109	
2,5-Dibromotoluene (PID)	93865.97	191076.1	104	

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* Reportable Detection Limit BRL = Below Reporting Limit

Page 28 of 34

Volatile Organic Compounds - CCV Evaluation Report

Analyte	Average RF	CCRF	% D	Limit
Batch S001636				
Calibration Check (S001636-CCV1)				
1,1,2-Trichlorotrifluoroethane (Freon 113)	0.270972	0.3525134	30.1	# 30.00
Acetone	0.2414491	0.2284886	-5.4	30.00
Acrylonitrile	0.2433882	0.2262288	-7.1	30.00
Benzene	1.474082	1.456884	-1.2	30.00
Bromobenzene	0.8393605	0.8448386	0.7	30.00
Bromochloromethane	0.1738593	0.1722579	-0.9	30.00
Bromodichloromethane	0.4716225	0.5017245	6.4	30.00
Bromoform	0.434808	0.4683113	#	30.00
Bromomethane	0.4089706	0.2445877	#	30.00
2-Butanone (MEK)	4.956407E-02	5.610243E-02	13.2	30.00
n-Butylbenzene	1.94562	2.41958	#	30.00
sec-Butylbenzene	2.89111	3.299663	#	30.00
tert-Butylbenzene	1.902923	2.185914	#	30.00
Carbon disulfide	0.8254437	0.7962523	-3.5	30.00
Carbon tetrachloride	0.3479734	0.4094171	#	30.00
Chlorobenzene	1.966749	1.95264	-0.7	30.00
Chloroethane	0.257974	0.2434818	-5.6	30.00
Chloroform	1.08406	0.7498942	#	20.00
Chloromethane	0.7984472	0.698047	#	30.00
2-Chlorotoluene	2.22223	2.435334	9.6	30.00
4-Chlorotoluene	2.201956	2.407919	#	30.00
1,2-Dibromo-3-chloropropane	0.1348299	0.1518254	#	30.00
Dibromochloromethane	0.3087944	0.3026374	-2.0	30.00
1,2-Dibromoethane (EDB)	0.3282405	0.3277036	-0.2	30.00
Dibromomethane	0.2553041	0.2484021	-2.7	30.00
1,2-Dichlorobenzene	1.449502	1.662357	14.7	30.00
1,3-Dichlorobenzene	1.489311	1.615769	8.5	30.00
1,4-Dichlorobenzene	1.699412	1.732714	2.0	30.00
Dichlorodifluoromethane (Freon12)	0.3527972	0.4168216	18.1	30.00
1,1-Dichloroethane	0.8719449	0.8378102	-3.9	30.00
1,2-Dichloroethane	0.7702401	0.7471055	-3.0	30.00
1,1-Dichloroethene	0.2976654	0.3204674	7.7	20.00
cis-1,2-Dichloroethene	0.3852942	0.3823956	-0.8	30.00
trans-1,2-Dichloroethene	0.338162	0.3269103	-3.3	30.00
1,2-Dichloropropane	0.4507547	0.4409823	-2.2	20.00
1,3-Dichloropropane	0.6676088	0.6552149	-1.9	30.00
2,2-Dichloropropane	0.5575565	0.5297236	-5.0	30.00
1,1-Dichloropropene	0.4352074	0.46818	#	30.00
cis-1,3-Dichloropropene	0.5090696	0.5131037	#	30.00
trans-1,3-Dichloropropene	0.4746232	0.4916596	#	30.00
Ethylbenzene	3.014614	3.277405	#	20.00
Hexachlorobutadiene	0.4405033	0.5200326	#	30.00
2-Hexanone (MBK)	0.3134502	0.3122135	#	30.00
Isopropylbenzene	3.045372	2.789192	-8.4	30.00
4-Isopropyltoluene	2.370971	2.744423	#	30.00
Methyl tert-butyl ether	1.245833	1.250288	0.4	30.00
4-Methyl-2-pentanone (MIBK)	4.918794E-02	4.575702E-02	#	30.00
Methylene chloride	0.3710446	0.3546209	-4.4	30.00
Naphthalene	1.462033	1.738951	#	30.00
n-Propylbenzene	3.13304	3.609416	#	30.00
Styrene	1.702746	1.845435	#	30.00

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Volatile Organic Compounds - CCV Evaluation Report

Analyte	Average		% D	Limit		
	RF	CCRF				
Batch S001636						
Calibration Check (S001636-CCV1)						
1,1,1,2-Tetrachloroethane	0.5777233	0.6300167	9.1	30.00		
1,1,2,2-Tetrachloroethane	0.7008382	0.6550592	-6.5	30.00		
Tetrachloroethene	0.2964984	0.3032625	2.3	30.00		
Toluene	0.9207557	0.8946018	-2.8	20.00		
1,2,3-Trichlorobenzene	0.7423327	0.9508044	#	30.00		
1,2,4-Trichlorobenzene	0.7521001	0.9001901	#	30.00		
1,1,1-Trichloroethane	0.5524826	0.5620661	1.7	30.00		
1,3,5-Trichlorobenzene	0.9986052	1.09765	#	30.00		
1,1,2-Trichloroethane	0.3013345	0.3019723	0.2	30.00		
Trichloroethene	0.4159973	0.4334416	4.2	30.00		
Trichlorofluoromethane (Freon 11)	0.5899435	0.7098588	20.3	30.00		
1,2,3-Trichloropropane	0.7664411	0.8625661	12.5	30.00		
1,2,4-Trimethylbenzene	2.262587	2.654522	#	30.00		
1,3,5-Trimethylbenzene	2.249027	2.563232	#	30.00		
Vinyl chloride	0.4703678	0.429531	#	20.00		
m,p-Xylene	1.14359	1.274046	#	30.00		
o-Xylene	1.150572	1.314155	#	30.00		
Tetrahydrofuran	0.1776574	0.1748703	-1.6	30.00		
Ethyl ether	0.2480153	0.2474485	-0.2	30.00		
Tert-amyl methyl ether	0.5428595	0.4859379	-10.5	30.00		
Ethyl tert-butyl ether	1.298306	1.272286	-2.0	30.00		
Di-isopropyl ether	1.863118	1.771237	-4.9	30.00		
Tert-Butanol / butyl alcohol	5.798213E-02	5.597902E-02	-3.5	30.00		
trans-1,4-Dichloro-2-butene	0.2883008	0.2999829	#	30.00		
Ethanol	9.229099E-03	9.120952E-03	-1.2	30.00		
1,4-Dioxane	4.383039E-03	3.901767E-03	#	30.00		
4-Bromofluorobenzene	0.8731884	0.8695154	-0.4	30.00		
Toluene-d8	1.053987	1.022021	-3.0	30.00		
1,2-Dichloroethane-d4	0.4473944	0.4439857	-0.8	30.00		
Dibromofluoromethane	0.2662166	0.2540244	-4.6	30.00		
Fluorobenzene	1	1	0.0			
Chlorobenzene-d5	1	1	0.0			
1,4-Dichlorobenzene-d4	1	1	0.0			

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* Reportable Detection Limit BRL = Below Reporting Limit

Page 30 of 34

Semivolatile Organic Compounds by GC - Pesticide Breakdown Report

Analyte	Column	% Breakdown	Limit
Batch S001600			
Performance Mix (S001600-PEM1)			
4,4'-DDT (p,p')	1	3.7	15.0
Endrin	1	5.4	15.0
4,4'-DDT (p,p')	2	5.3	15.0
Endrin	2	5.6	15.0
Performance Mix (S001600-PEM2)			
4,4'-DDT (p,p')	1	6.7	15.0
Endrin	1	6.8	15.0
4,4'-DDT (p,p')	2	10.0	15.0
Endrin	2	9.8	15.0

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* Reportable Detection Limit BRL = Below Reporting Limit

Page 31 of 34

Notes and Definitions

QM9	The spike recovery for this QC sample is outside the established control limits. The sample results for the QC batch were accepted based on LCS/LCSD or SRM recoveries within the control limits.
BRL	Below Reporting Limit - Analyte NOT DETECTED at or above the reporting limit
dry	Sample results reported on a dry weight basis
NR	Not Reported
RPD	Relative Percent Difference

A plus sign (+) in the Method Reference column indicates the method is not accredited by NELAC.

A Matrix Spike and Matrix Spike Duplicate (MS/MSD) for MADEP EPH CAM may not have been analyzed with the samples in this work order. According to the method these spikes are performed only when requested by the client. If requested the spike recoveries are included in the batch QC data.

Laboratory Control Sample (LCS): A known matrix spiked with compound(s) representative of the target analytes, which is used to document laboratory performance.

Matrix Duplicate: An intra-laboratory split sample which is used to document the precision of a method in a given sample matrix.

Matrix Spike: An aliquot of a sample spiked with a known concentration of target analyte(s). The spiking occurs prior to sample preparation and analysis. A matrix spike is used to document the bias of a method in a given sample matrix.

Method Blank: An analyte-free matrix to which all reagents are added in the same volumes or proportions as used in sample processing. The method blank should be carried through the complete sample preparation and analytical procedure. The method blank is used to document contamination resulting from the analytical process.

Method Detection Limit (MDL): The minimum concentration of a substance that can be measured and reported with 99% confidence that the analyte concentration is greater than zero and is determined from analysis of a sample in a given matrix type containing the analyte.

Reportable Detection Limit (RDL): The lowest concentration that can be reliably achieved within specified limits of precision and accuracy during routine laboratory operating conditions. For many analytes the RDL analyte concentration is selected as the lowest non-zero standard in the calibration curve. While the RDL is approximately 5 to 10 times the MDL, the RDL for each sample takes into account the sample volume/weight, extract/digestate volume, cleanup procedures and, if applicable, dry weight correction. Sample RDLs are highly matrix-dependent.

Surrogate: An organic compound which is similar to the target analyte(s) in chemical composition and behavior in the analytical process, but which is not normally found in environmental samples. These compounds are spiked into all blanks, standards, and samples prior to analysis. Percent recoveries are calculated for each surrogate.

Validated by:
Hanibal C. Tayeh, Ph.D.
Nicole Leja

The following outlines the condition of all VPH samples contained within this report upon laboratory receipt.

Matrix	Ground Water				
Containers	<input checked="" type="checkbox"/> Satisfactory <input type="checkbox"/> Broken <input type="checkbox"/> Leaking				
Sample Preservative	Aqueous (acid-preserved)	<input type="checkbox"/> N/A <input checked="" type="checkbox"/> pH≤2 <input type="checkbox"/> pH>2 Comment:			
	Soil or Sediment	<input checked="" type="checkbox"/> N/A <input type="checkbox"/> Samples not received in Methanol			ml Methanol/g soil <input type="checkbox"/> 1:1 +/-25% <input type="checkbox"/> Other:
		<input type="checkbox"/> Samples received in Methanol: <input type="checkbox"/> covering soil/sediment <input type="checkbox"/> not covering soil/sediment			
	<input type="checkbox"/> Samples received in air-tight container:				
Temperature	<input type="checkbox"/> Received on ice <input checked="" type="checkbox"/> Received at 4 ± 2 °C <input type="checkbox"/> Other: °C				

Were all QA/QC procedures followed as required by the VPH method? Yes

Were any significant modifications made to the VPH method as specified in section 11.3? No *see below

Were all performance/acceptance standards for required QA/QC procedures achieved? Yes

* Yes, if PID and FID surrogate recoveries are listed as n/a, then that sample was run via GCMS using all QC criteria specified in the method

The following outlines the condition of all EPH samples contained within this report upon laboratory receipt.

Matrix	Ground Water				
Containers	<input checked="" type="checkbox"/> Satisfactory <input type="checkbox"/> Broken <input type="checkbox"/> Leaking				
Aqueous Preservative	<input type="checkbox"/> N/A <input checked="" type="checkbox"/> pH≤2 <input type="checkbox"/> pH>2 <input type="checkbox"/> pH adjusted to <2 in lab				Comment:
Temperature	<input type="checkbox"/> Received on ice <input checked="" type="checkbox"/> Received at 4 ± 2 °C <input type="checkbox"/> Other: °C				

Were all QA/QC procedures followed as required by the EPH method? Yes

Were any significant modifications made to the EPH method as specified in Section 11.3? No

Were all performance/acceptance standards for required QA/QC procedures achieved? Yes

I attest that based upon my inquiry of those individuals immediately responsible for obtaining the information, the material contained in this report is, to the best of my knowledge and belief, accurate and complete.

Authorized by:

Hanibal C. Tayeh, Ph.D.
President/Laboratory Director

MADEP MCP ANALYTICAL METHOD REPORT CERTIFICATION FORM

Laboratory Name: Spectrum Analytical, Inc. - Agawam, MA	Project #: 05-213212
Project Location: Westborough, 183 Turnpike Rd.-Westborough, MA	MADEP RTN ¹ :

This form provides certifications for the following data set:

SB08314-01 through SB08314-02

Sample matrices:	Ground Water				
MCP SW-846 Methods Used	<input checked="" type="checkbox"/> 8260B	<input type="checkbox"/> 8151A	<input type="checkbox"/> 8330	<input checked="" type="checkbox"/> 6010B	<input type="checkbox"/> 7470A/1A
	<input type="checkbox"/> 8270C	<input checked="" type="checkbox"/> 8081A	<input checked="" type="checkbox"/> VPH	<input type="checkbox"/> 6020	<input type="checkbox"/> 9014M ²
	<input type="checkbox"/> 8082	<input type="checkbox"/> 8021B	<input checked="" type="checkbox"/> EPH	<input type="checkbox"/> 7000S ³	<input type="checkbox"/> 7196A

1 List Release Tracking Number (RTN), if known

2 M - SW-846 Method 9014 or MADEP Physiologically Available Cyanide (PAC) Method

3 S - SW-846 Methods 7000 Series List individual method and analyte

An affirmative response to questions A, B, C and D is required for "Presumptive Certainty" status

A	Were all samples received by the laboratory in a condition consistent with that described on the Chain of Custody documentation for the data set?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No
B	Were all QA/QC procedures required for the specified analytical method(s) included in this report followed, including the requirement to note and discuss in a narrative QC data that did not meet appropriate performance standards or guidelines?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No
C	Does the data included in this report meet all the analytical requirements for "Presumptive Certainty", as described in Section 2.0 (a), (b), (c) and (d) of the MADEP document CAM VII A, "Quality Assurance and Quality Control Guidelines for the Acquisition and Reporting of Analytical Data"?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No
D	<u>VPH and EPH methods only:</u> Was the VPH or EPH method conducted without significant modifications (see Section 11.3 of respective methods)?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No

A response to questions E and F below is required for "Presumptive Certainty" status

E	Were all analytical QC performance standards and recommendations for the specified methods achieved?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
F	Were results for all analyte-list compounds/elements for the specified method(s) reported?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No

All negative responses are addressed in a case narrative on the cover page of this report.

I, the undersigned, attest under the pains and penalties of perjury that, based upon my personal inquiry of those responsible for obtaining the information, the material contained in this analytical report is, to the best of my knowledge and belief, accurate and complete.

Hanibal C. Tayeh, Ph.D.
President/Laboratory Director

Date: 3/2/2010

This laboratory report is not valid without an authorized signature on the cover page.



CHAIN OF CUSTODY RECORD

SPECTRUM ANALYTICAL, INC.
Emissions
HANIBAL TECHNOLOGY

Page 1 of 1

- Samples disposed otherwise inst

Samples disposed of after 60 days unless otherwise instructed.

Report To: ECS
10 State St.
Woburn MA 01801

Invoice To: ECS

Project No.: 05-213212
Site Name: Westborough

Telephone #: 781 246 8877 P.O. No.: _____
 Project Mgr. James Smith
 1=Na2SO4 2=HCl 3=H2SO4 4=HNO3 5=NaOH 6=Ascorbic Acid
 8=NaHSO4 9= _____ 10= _____ 11= _____
 DW=Drinking Water GW=Groundwater WW=Wastewater
 O=Oil SW=Surface Water SO=Soil SL=Sludge A=Air
 X1= _____ X2= _____ X3= _____

Location:	183 Winpike Rd. Westborough	
State:	MA	
RQN:	Waren Properties	
Sampler(s):	A. Gibson, J. Runyan	
7=CH ₃ OH	List preservative code below: 2 2 2 3 4	QA/QC Reporting Notes (check as needed)
Containers:	Analyses:	<input checked="" type="checkbox"/> Provide MA DEP MCP/CAM Report <input type="checkbox"/> Provide CT DPH RCP Report
ass		OWOC Reporting Level

G=Grab C=Composite

11 Almgren Drive • Agawam, MA 01001 413-789-9018 FAX 413-789-4076 • www.spectrum-analytical.com



CHAIN OF CUSTODY RECORD

S608314

SPECTRUM ANALYTICAL, INC.
Falmouth
HANIBAL TECHNOLOGY

Report To:

Standard

TAT -

7 to 10 business days

Rush

TAT - Date Needed:

2/26/10

All TATs subject to laboratory approval.

Min. 24-hour notification needed for rushes.

otherwise instructed.

Project No.:

05-213212

Invoice To:

ECS

Page 1 of 1

Site Name:

Westborough

Location:

183 Turnpike Rd. Westborough

State:

MA

Sampler(s):

A. Gibson, J. Runyon

RQN:

Jarren

RQN:

Epoxies

Project Manager:

James Smith

P.O. No.:

Telephone #:

781 246 8897

Project Mgr.:

Date:

Time:

Temp°C:

□ Ambient

□ Refrigerated

□ Fridge temp

°C

□ Freeze temp

°C

APPENDIX J

Craig R. Ellis, LSP

Senior Project Manager

EXPERIENCE SUMMARY

Mr. Ellis has 18 years experience as an environmental engineer and project manager on investigation, site assessment, design and remediation of contaminated sites and the design of fuel management systems. Representative technologies have included soil vapor extraction/air sparging, dual phase extraction, pumping and physical/chemical treatment, bioremediation, aquifer pump testing, demolition and subslab ventilation.

REPRESENTATIVE PROJECTS BY CLIENT TYPE

MCP

Buttonwood Service Station, New Bedford, MA

Project Manager for a MCP related services. During the upgrade of the underground storage tanks at the gasoline station, gasoline contamination was documented in the soil and groundwater. Mr. Ellis prepared the Phase I – Initial Site Assessment and Tier Classification for the parcel. In order to conduct Phase II activities, it was determined that it was necessary to complete a Notice of Intent as a portion of the work was to be completed in the wetland buffer zone. The Phase II Comprehensive Site Assessment was completed upon the approved order of conditions.

B & D Petroleum Sales, Inc., Bellingham, MA

Following the release of gasoline at a gas station in Bellingham, Massachusetts, Mr. Ellis designed a soil vapor extraction and air sparge (SVE/AS) system in order to address the groundwater contamination at the site. A Phase IV Remedy Implementation Plan was prepared for the site, providing system details.

At the same facility, during the removal and replacement of the underground storage tank system. Mr. Ellis prepared an Immediate Response Action (IRA) plan at the site to address dewatering and the excavation and removal of contaminated soil during the construction activities. As the groundwater was located at a depth of 3 to 4 feet across the site, a 24-hour dewatering system was set-up during the month of December. Mr. Ellis prepared the NPDES exclusion permit, and IRA reports for the site during the system operation. Upon completion of the UST removal and replacement, Mr. Ellis coordinated the installation of the SVE/AS system to minimize future site intrusion and paving costs.

Years Experience: 18

Education

M.E., Environmental Engineering, Clarkson University, Potsdam, NY, 1992.

B.S., Civil Engineering, Clarkson University, Potsdam, NY, 1991.

Other Education

Assessment, Control and remediation of LNAPL contaminated Sites

Bioremediation Engineering, Design and Applications
NHDES Contaminated Sites Corrective Action Seminar.

Certificates and Licenses

Massachusetts Licensed Site Professional

Engineer-in Training, 1991

Professional Affiliations

American Society of Civil Engineers (ASCE)

Boston Society of Civil Engineers
(BSCE)

Regulatory Experience

- | | |
|-------------------------------------|--------|
| <input checked="" type="checkbox"/> | State |
| <input checked="" type="checkbox"/> | CERCLA |
| <input checked="" type="checkbox"/> | RCRA |
| <input checked="" type="checkbox"/> | Local |
| <input checked="" type="checkbox"/> | OSHA |

Skills and Abilities

- > Regulatory Compliance
- > Site Assessment and Investigation
- > Soil and Ground Water Remediation
- > Construction Oversight
- > Storage Tank Management
- > Project Management

Gasoline Merchants, Various Sites

As a Project Manager, Mr. Ellis has provided environmental services for Gasoline Merchants at various properties in both Massachusetts and New Hampshire. These services include conducting subsurface investigations, the preparation of Phase I, Phase II reports, and response action outcomes, the preparation and implementation of release abatement measures, the operation and maintenance of soil vapor extraction, air sparge, and dual phase vapor extraction systems, the preparation of UIC Closure reports, and conducting limited removal actions.

JPA Management, Hyannis, MA

Project Manager for construction management and MCP related activities. A release of jet fuel, following a crash, at a parking lot of a mall impacted the storm drainage system for the facility. Due to the release, the storm drainage system for the property needed to be removed and replaced in a timely manner, prior to the start of tourist season. Mr. Ellis coordinated and conducted the assessment activities on the property, prepared an Immediate Response Action Plan, and a soil management plan for the project in order to obtain site closure in conjunction with the replacement of the storm drain system. Mr. Ellis provided support to the construction firm to minimize any potential delays in construction due to the release while the construction activities and remedial response activities were being conducted. A Class A-2 Response Action Outcome statement was prepared and submitted to the DEP upon the completion of the project.

Habitech, Inc., Boxboro, MA

Project Manager for real estate developer. Conducted a subsurface investigation and environmental site assessment for a large parcel in Boxboro. Based on the results of the assessment activities, it was determined that a Department of Environmental Protection reporting threshold had been triggered based on EPH concentrations in the surficial soil from a release of creosote. As the groundwater was not impacted, a Limited Removal Action (LRA) was completed at the property within the 120-day timeframe.

WaterMark Development, Jamaica Plain, MA

As a Project Manager, Mr. Ellis assisted WaterMark Development with obtaining a grant from Mass Development in order to conduct the assessment activities prior to the purchase of the property. The property was a former foundry and a residential development was proposed. The initial assessment indicated the presence of lead, arsenic, and EPH contamination in the soil. Due to the elevated levels of arsenic in the surficial soils, the DEP was notified and an immediate response action plan was developed for the site to address potential imminent hazards. Due to the limited area, ECSMarin recommended paving as a temporary measure to eliminate the exposure route while developing a comprehensive remedial approach. Mr. Ellis prepared a Phase I – Initial Site Investigation and Tier Classification for the site.

Browning-Ferris Industries, Various Sites

As a Project Engineer, Mr. Ellis provided environmental services for various BFI facilities including conducting subsurface investigations, underground storage tank removal oversight, the preparation of Phase I – Initial Site Investigations and a Response Action Outcome, a pump test and analysis, and oil/water separator sampling to verify compliance with discharge parameters.

G.L. Finney, Brookfield, MA

Project Manager for MCP related services. Following the detection of gasoline odors in a residential basement, Mr. Ellis installed a basement venting system and completed an imminent hazard evaluation as part of an Immediate Response Action (IRA). The gasoline vapors were traced to a nearby gas station and fuel oil dealer. Mr. Ellis planned and managed the assessment activities on the property and prepared a Phase I – Initial Site Assessment for the site.

Craig R. Ellis, LSP
cellis@ecsconsult.com



Nicosia Management, Boston, MA

Project Engineer related services for a real estate developer. Following the detection of fuel oil at a Boston Water and Sewer Commission pumping station, Mr. Ellis traced the product from a 48-inch combined sewer main to a nearby office building. Upon determining the pipe location, Mr. Ellis conducted a subsurface investigation both beneath the building slab and along the exterior of the building. Approximately 3 inches to 1 foot of product was detected and Mr. Ellis prepared and implemented Immediate Response Actions to address the product.

LAW FIRMS

Choate, Hall, and Stewart, Various Sites

Conducted subsurface investigations, and prepared ASTM Phase I and Phase II reports for several properties during the refinancing and/or real estate transfers.

MUNICIPALITIES

Department of Public Works, Wakefield, MA

As a Project Engineer, Mr. Ellis assisted in the design of an aboveground storage tank system at the property including the preparation of the specification for the ASTs, fuel management system, and dispensers. Upon award of the project, Mr. Ellis conducted the construction management activities, approved contractor submittals, and provided field oversight to ensure that the work was completed in conformance with the specifications. During the removal of the underground storage tank systems it was determined that a DEP reporting condition was present. Mr. Ellis completed the subsurface investigation on the property and prepared a Phase I – Initial Site Assessment and Phase II – Comprehensive Site Assessment for the site.

Norwood Housing Authority, Norwood, MA

During the replacement of a storm drain line on the property, a heavy sheen was identified on the groundwater within the work zone. Mr. Ellis prepared a utility-related abatement measure (URAM) plan for the contractor in order to manage the contaminated soil and groundwater which was encountered during the construction activities. Upon the completion of the construction activities, a subsurface investigation was conducted and a downgradient property status (DPS) was prepared for the release, which was associated with a nearby gasoline station.

Department of Public Works. Norwood, MA

Following the release of gasoline from an underground storage tank (UST) into a nearby storm drain, Mr. Ellis was responsible for preparing the design of the new UST system, the remedial system design associated with the gasoline release, as well as the subsequent construction management activities. Mr. Ellis prepared the contract documents and bid specifications for the concrete work, underground storage tanks system, fuel management system, canopy, and fire suppression system as well as the associated design plans. Mr. Ellis was responsible for the management of the contract, approving contractor submittals and changes during the construction phase of the project, as well as providing construction oversight during the system installation

As part of the environmental portion of the project, Mr. Ellis prepared the Immediate Response Action (IRA) Plan and Phase I Initial Site Assessment for the site and managed the IRA activities. The IRA activities

included the cleaning of the nearby catchbasins and stormdrains, soil management, and the placement and monitoring of booms as the storm drain led to a nearby brook. Mr. Ellis designed an interceptor trench system which was constructed to intercept gasoline contaminated groundwater prior to it entering into a nearby 12-inch diameter reinforced concrete pipe.

City of Boston, Department of Neighborhood Development.

As a Project Engineer Mr. Ellis assisted in the design of the fuel management systems at 32 separate properties in the City of Boston, predominantly Fire and Police Stations. The project included a complete survey of the underground tank systems at each facility, recommendations for new systems, completing a survey of each site and the preparation of bid documents, plans and system specifications. The projects were bundled into 4 to 6 different properties, based on the scope of work and location and placed out to bid. Upon award of the construction contract, Mr. Ellis was responsible for the field supervision during the construction activities. During the construction activities, upon detection of a DEP notification threshold, Mr. Ellis was responsible for managing the MCP related activities at each site including subsurface investigation, assessment activities, remedial activities, and preparing IRA plans, RAM plans, Phase I – Initial Site Investigations, and Phase II Comprehensive Site Assessments.

EMPLOYMENT EXPERIENCE

1997-Present Senior Project Manager, Environmental Compliance Services, Inc., Woburn, MA

1992-1997 Project Engineer, Green Environmental, Inc., Quincy, MA

James N. Smith

*Project Manager
Wakefield, MA*

EXPERIENCE SUMMARY

Mr. Smith has 9 years of experience as an Industrial Hygienist, Environmental Scientist, and Project Manager on environmental assessment, engineering, and construction projects for private and public sector clients on assignments involving solid and hazardous waste, MCP services, and facility compliance.

REPRESENTATIVE PROJECTS

GAS STATION UPGRADE

Alliance Energy Corp., Lynn, MA Mr. Smith was the Field Technician present at the job site. Duties included oversight of excavation and removal of gasoline UST's and associated piping, field screening of excavated soils for VOC contamination, and stockpiling and removal of contaminated soils off-site. Collected soil samples at the excavation limits for laboratory analysis. Also responsible for dewatering activities associated with the tank excavation, including pump installation, management of frac tank, sampling of discharge, and obtaining flow totalizer measurements. Conducted air monitoring in neighboring apartment buildings.

REMEDIAL SYSTEM INSTALLATION AND MAINTENANCE

Gasoline Merchants, Inc., Andover, MA Mr. Smith was a Field Technician present for the installation of a Dual-Phase Vapor Extraction (DPVE) system for the remediation of soil and groundwater. Duties included connecting system piping and the startup procedure for the treatment system. Additional responsibilities included Operation and Maintenance activities on the DPVE system, which consist of obtaining vacuum, pressure, temperature, and electric readings from the liquid-ring pump, transfer pump and piping associated with the system. Mr. Smith also replaced filters, maintains appropriate oil levels in the liquid ring pump, and conducts compliance air monitoring of effluent vapors. Mr. Smith collected groundwater samples from the system influent and effluent monthly, tabulated analytical results, and wrote Discharge Monitoring Reports under an EPA NPDES Discharge Permit. Other duties on the site include collecting vacuum readings from select monitoring wells to ensure negative pressure is maintained in the subsurface, and bi-annual groundwater sampling events.

Global Petroleum Corp, Revere, MA Mr. Smith worked on a project team responsible for the evaluation of a 50 gallon per minute groundwater pump and treat and soil vapor extraction (SVE) system. Mr. Smith's responsibilities included troubleshooting malfunctioning treatment system components, ordering replacement parts, and conducting repairs to the system. Mr. Smith was also involved in a redesign of the treatment system which resulted in an increased

Years Experience: 9

Education

B.S., Environmental Science,
Virginia Tech, 1999

Certificates and Licenses

Certificate of Completion For
Autodesk Training, 2002-
AutoCAD Level II

Certificate of Completion For
Autodesk Training, Land Desktop

Certificate of Completion For ESRI
Training, ArcGIS Desktop I

40-Hour OSHA Hazardous
Materials Health and Safety
Training

Massachusetts Grade I-4 Industrial
Wastewater Treatment Operator

Accredited Asbestos Inspector

Regulatory Experience

- | | |
|---------------------------------|--------------------------------|
| <input type="checkbox"/> CERCLA | <input type="checkbox"/> TSCA |
| <input type="checkbox"/> RCRA | <input type="checkbox"/> SDWA |
| <input type="checkbox"/> OSHA | <input type="checkbox"/> CWA |
| <input type="checkbox"/> State | <input type="checkbox"/> CAA |
| <input type="checkbox"/> NRC | <input type="checkbox"/> NEPA |
| <input type="checkbox"/> USDOT | <input type="checkbox"/> Local |

efficiency of VOC removal and substantial cost savings in spent vapor phase granular activated carbon removal by redirecting part of the effluent airflow from the SVE system to catalytic oxidizer units. Continuing responsibilities include oversight of the operation and maintenance of the treatment system and analysis of treatment system data including effluent liquid and vapor measurements. Mr. Smith also assists in maintaining regulatory compliance for the disposal site under the Massachusetts Contingency Plan and EPA NPDES discharge permit.

B&D Petroleum, Bellingham, MA Mr. Smith is responsible for all aspects of management of a gasoline release in a drinking water source area in Bellingham, MA. Mr. Smith conducted comprehensive site assessment activities including oversight of the drilling program, soil, groundwater, soil gas, and indoor air sampling. Mr. Smith oversaw the excavation of contaminated soils, replacement of gasoline USTs, excavation dewatering and treatment, and design, installation and maintenance of multiple remedial technologies including air sparge and soil vapor extraction, low flow oxygen sparging, and in-situ chemical oxidation. Mr. Smith designed and maintained comprehensive O&M manuals for the efficient management of the selected remedial technologies. Ongoing responsibilities include compilation of data collected from the treatment systems and groundwater monitoring program, data analysis, and preparation of status reports on the ongoing comprehensive remedial response actions performed at the site.

EMPLOYMENT EXPERIENCE

2001-Present Environmental Compliance Services, Inc., Wakefield, MA

2000-2001 Work Environment Associates, Richmond, VA

Skills and Abilities

- ❖ Groundwater and Soil Sampling
 - ❖ Supervise Drilling Activities and Soil Excavations
 - ❖ Characterize Soils
 - ❖ Construction, Installation, and Startup of Soil and Groundwater Remediation Systems
 - ❖ O&M of Soil and Groundwater Remediation Systems
 - ❖ Characterization and Disposal of Remediation Waste
 - ❖ Perform Tidal Surveys
 - ❖ Supervise Confined Space Entry
 - ❖ Asbestos Inspections
 - ❖ Interpret GWr Survey Data
 - ❖ Calculate Groundwater Contours and Flow Direction
 - ❖ Create and Replicate Site Plans and Construction Details in AutoCAD
 - ❖ Research Environmental Site History
 - ❖ Perform File Reviews at DEP and State House

James N. Smith
jsmith@ecsconsult.com



Eric W. Kaatz

Senior Field Technician

Experience Summary:

Mr. Kaatz is a Senior Field Technician with nine years of direct experience. He is responsible for providing field research and support in conjunction with environmental site assessments and remedial services. Mr. Kaatz's work includes the performance of site inspections, background research, water and soil sampling, soil gas surveys, slug tests and pumping tests. He also assists in the performance of remedial pilot tests, monitoring of remedial operations, and installation and maintenance of remedial components.

Recent Experience/Accomplishments:

- > Data compilation and evaluation, work plan preparation, Phase I and II environmental site assessment report writing, proposal preparation, subcontractor coordination, and regulatory file review
- > Operation and maintenance of soil and groundwater remediation systems
- > Supervision of subcontractors during subsurface investigations, well installation, and underground storage tank removal; field work including collection of soil, soil gas and groundwater samples
- > Knowledge of indoor air quality sampling protocols and procedures
- > Responsible for geotechnical aspects of construction with an emphasis on drilled and driven pile monitoring, "tie-back" retention systems, and the placement of structural fill

Employment History:

- > Environmental Compliance Services, Inc., Brattleboro, VT, December 2008 to Present – Senior Field Technician
- > Granite Gorge Ski Area, Roxbury, NH, 2003 to 2007 – Operations Manager
- > LFR Levine Fricke, Inc., East Hartford, CT, 2000 to 2003 – Staff Geologist
- > Earth Consultants, Inc., Bellevue, WA, 1997 to 2000 – Geotechnical Technician/Environmental Scientist
- > Weston & Sampson Engineers, Inc., Peabody, MA, 1996 to 1997 – Geologist
- > Mount Washington Observatory, North Conway, NH, 1995 to 1997 – Weather Observer Internship

Years of Experience: 9

Education:

B.S. Safety Studies, Ongoing
Keene State College

B.S. Geology, 1995
Norwich University, the
Military College of Vermont

Miami University of Ohio
Geology Field Camp, 1995

Certifications:

- > 40-Hour OSHA HAZWOPER and Current 8-Hour Refresher
- > Confined Space Entry Certification
- > Certified AHERA Asbestos Building Inspector

Skills and Abilities:

- > Preliminary Site Assessment
- > Site Investigation
- > Remedial Investigation
- > Risk Assessment/Evaluation
- > Construction Oversight
- > O&M
- > Closeout Reports
- > Field Supervision
- > On-Site Screening
- > Borehole Geophysical Evaluation
- > Storage Tank Decommissioning
- > Storage Tank Removal & Replacement
- > Indoor Air Quality Surveys & Mold Sampling

APPENDIX B

COPIES OF PUBLIC NOTIFICATION LETTERS



Consultants | Engineers | Contractors

May 19, 2010

Chief Municipal Officer
Town of Westborough
34 West Main Street
Westborough, MA 01581

RE: Notice of Implementation of an Immediate Response Action (IRA)
183 Turnpike Road, Westborough, MA
MassDEP RTN: 2-17834
CEA Ref. File #: RI-0112-10

To Whom It May Concern:

On behalf of Brendon Properties, Corporate Environmental Advisors, Inc (CEA) is submitting this letter to serve as notification that an Immediate Response Action (IRA) for the above-referenced Site has been filed with the Massachusetts Department of Environmental Protection (MassDEP). The IRA is being conducted to eliminate potential exposure to arsenic in surface soil at concentrations that exceed Imminent Hazard Levels at the Site. Response Actions include installation of a fence to surround the arsenic in surface soil and assessment activities to define the nature and extent of the impacted soil.

A copy of the IRA Plan may be obtained and/or viewed at the Worcester MassDEP Office located at 624 Main Street in Worcester, Massachusetts. If you should have any questions regarding this submittal or would like to obtain a copy of said document, please do not hesitate to contact the MassDEP Worcester Office.

Sincerely,
CORPORATE ENVIRONMENTAL ADVISORS, INC.

A handwritten signature in black ink that appears to read "Michael H. Coté".

Michael H. Coté
Assistant PM

cc: Mr. Allen Hight, Brendon Properties
Client/BrendonProperties/RI-0112-10/IRAPlan.doc

ADDRESS 1725 Mendon Road, Suite 208
Cumberland, RI 02864
TEL 401.334.3313
FAX 401.334.3312
WEB www.cea-inc.com

| Massachusetts | Connecticut | Rhode Island | New Hampshire |



Consultants | Engineers | Contractors

May 19, 2010

Board of Health
Town of Westborough
34 West Main Street
Westborough, MA 01581

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