December 12, 2013
Via NHDES Electronic Submittal

State of New Hampshire
Department of Environmental Services
Waste Management Division
29 Hazen Drive, P.O. Box 95
Concord, NH 03302

Re: SITE INVESTIGATION REPORT
Frank Bean Road Former Burn Dump
Frank Bean & Morin Roads
Laconia, New Hampshire
NHDES Site No. 200308076
Sovereign Project No. NH011

To Whom It May Concern:

On behalf of the City of Laconia (City), Sovereign Consulting Inc. (Sovereign) is submitting this Site Investigation Report (SIR). This SIR was prepared in accordance with New Hampshire Department of Environmental Services requirements as defined in Code of Administrative Rules Env-Or-600, *Contaminated Site Management*.

If you have any questions regarding this submittal, please feel free to contact the undersigned.

Sincerely,
SOVEREIGN CONSULTING INC.

Mark R. Henderson, P.G.
Project Manager

Michael A. Ciance, P.E.
Senior Engineer

Attachments: Site Investigation Report

cc: *With Attachments:*
Scott Myers, City Manager
Paul Moynihan, PE, Department of Public Works

SOVEREIGN CONSULTING INC.

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SITE INVESTIGATION REPORT

Frank Bean Road Former Burn Dump
Frank Bean & Morin Roads
Laconia, New Hampshire

NHDES Site No. 200308076
Project No. 13055

Prepared for:

City of Laconia
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December 12, 2013

Project Number: NH011

Lilly Everett

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1.0 INTRODUCTION

1.1 Purpose

Sovereign Consulting Inc. (Sovereign), on behalf of the City of Laconia (City) has completed this Site Investigation Report (SIR) for the location of a former burn dump located along Frank Bean Road in the City of Laconia, New Hampshire (site). The purpose of this SIR was to 1) delineate the limits of the burn dump, 2) assess the nature and extent of soil and/or groundwater contamination in the vicinity of the burn dump, 3) identify potential human and environmental receptors in the vicinity of the site, and 4) provide a preliminary screening of potential remedial options for the site, if necessary.

The Site Investigation was requested by the New Hampshire Department of Environmental Services (NHDES) in an April 20, 2012 letter (**Attachment A**); however, completion of this investigation was delayed pending the review and approval of the work plan by NHDES provided on March 7, 2013, and due to difficulties in obtaining property access agreements from the various property owners. The City initially attempted to obtain access agreements in April 2013 and transferred responsibility for seeking the remaining three agreements to Sovereign in July 2013. Additional correspondence between Sovereign and the NHDES regarding the delay of the SIR and the timeline for completion are also included in **Attachment A**.

The work was completed in general accordance with our work plan provided on July 6, 2012 and our subsequent agreement executed April 15, 2013. A summary of our field methods, the sampling results and our recommendations follow. The contents of this report are subject to the Limitations contained in **Attachment B**.

1.2 Site Description

The site is collectively known as the Frank Bean Road site and originally encompassed nine different properties totaling about 75 acres. Most of the properties are located within the City of Laconia while some are located within the town limits of Gilford, New Hampshire. There are two known dump areas within the site; the burn dump and a pre-1981 landfill. As suggested within their letter of April 20, 2012, NHDES provided for the option to complete two site investigations prioritizing the burn dump areas. Of the nine properties, two parcels comprising about 50 acres and extending across the town line with Gilford are owned by the city of Laconia and are referred to as the "Morin Road dump". The Morin Road dump site is the pre-1981 landfill location.

The remaining seven parcels have not been and are not now owned by the City. One parcel, owned by David and Dallas Gilbert (Lot 475-18), is undeveloped and reportedly contains urban renewal debris. Lot 476-5, owned by William and Raymond Reed, is currently utilized as an auto salvage yard. Lot 476-4 is owned by GEI Holdings LLC and is currently utilized by an electrical

supply store, motorcycle repair shop and public storage rental units. Based on the findings of prior investigations, these three lots no longer appear to be associated with the burn dump.

The former Frank Bean burn dump encompasses the majority of the following four parcels: Lot 476-3 (Paquin), Lot 476-2 (Farley, Dolphin Point), Lot 476-1 (Wiley), and Lot 486-1 (Joyal). Two of the remaining four parcels are used for residential purposes (Joyal and Paquin), while the remaining two properties are used for commercial enterprises that include maintenance facilities and construction material yards. The Farley property (Lot 476-2), is currently operated as Dolphin Point; a marine contractor. The Wiley property (Lot 476-1), is currently leased by CBH Landscape Contractors.

Each of the four lots within the study area is improved by a primary structure. The Paquin residence (Lot 476-3), is a cottage/camp-style home built on piers with an earthen crawl space. The Joyal residence (Lot 486-1), is a ranch-style home reportedly built around a mobile home, and has a partially finished basement. A portion of the basement is not finished with concrete and is currently topped with a crushed gravel material. The Wiley property (Lot 476-1), is improved with a concrete-block single-story shop with conventional shallow foundations and a slab-on-grade. The Farley/Dolphin Point property (Lot 476-2), is improved with a gambrel-style building that is used for commercial office/business purposes. The structure is supported by a cast-in-place concrete basement foundation.

According to the United States Geological Survey (U.S.G.S.) 7.5 minute topographic map of the Laconia, New Hampshire Quadrangle, the elevation of the site is approximately 680-feet above mean sea level. A Site Locus Map is included as **Figure 1.** The project site and surrounding area is shown on **Figure 2**. Pertinent site details are illustrated on **Figure 3**.

1.3 Scope of Work

This SIR was completed in general accordance with the NHDES Env-Or-600, *Contaminated Site Management*, specifically Env-Or 606.03, and included the following:

- Researching historical information from reasonably attainable sources including local and municipal offices and state departments;
- Reviewing previous environmental reports;
- Completion of geophysical survey to evaluate burn dump limits;
- Collect supplemental near surface soil samples with laboratory analyses;
- Advancing twenty (20) soil borings and soil sample collection for field and laboratory analysis;

- Installing eleven (11) groundwater monitoring wells and groundwater sample collection for field and laboratory analysis;
- A stadia survey; and
- A hydrogeological site evaluation.

The main objective of this SIR study was to develop a site conceptual model to assess the vertical and horizontal nature and extent of the burn dump materials, assess possible soil and/or groundwater petroleum-related and chlorinated solvent impacts, and to identify potential human and/or environmental sensitive receptors.

2.0 ENVIRONMENTAL SETTING

Site Physical Setting Information	
Topography (Refer to **Figure 1** for a portion of the Laconia, New Hampshire Topographic Quadrangle)	
Site Elevation	Approximately 680 feet (USGS)
Surface Runoff/ Topographic Gradient	The site is generally level with steep slopes on the southern boundary of site.
Closest Surface Water	The closet downgradient surface water body is an unnamed, intermittent stream located approximately 900 feet to the east/southeast of the site and flows to the south into Durkee Brook.
Soil Characteristics	
Soil Type	Loamy Fine Sand and Fine Sandy Loam
Description	The northern portion of the site (approximately 40% of the total site) consists of a Champlain loamy fine sand with 15 to 60 percent slopes and the southern portion of the site (approximately 60% of the total site) consists of a Boscawen fine sandy loam with 8 to 15 percent slopes *US Dept. of Agriculture Soil Conservation Service* (*http://websoilsurvey.nrcs.usda.gov/app/HomePage.htm*)
Geology/Hydrogeology	
Formation	Rangeley Formation
Description	Rusty-weathering, peltic schist, metasandstone and local coarse-grained metasandstone lentils; calc-silicate pods common; minor coticule. *Bedrock Geologic Map of New Hampshire. Map date 1997.*
Estimated Depth to First Occurrence of Groundwater	Approximately 10 feet below grade surface. *Final Inspection Report for Frank Bean Road, Weston Solutions Inc., dated December 21, 2009*
Hydrogeologic Gradient	Groundwater flow is anticipated to flow to the southeast following the topographic relief

3.0 HISTORICAL USE INFORMATION

Sovereign reviewed the following historical sources for indications of environmental concerns in association with / or pertaining to the site. Copies of selected historical documents are included in **Attachment C**.

3.1 Site Ownership

Records obtained from the City of Laconia Tax Assessor's Office were reviewed for current property ownership. A summary of the property ownership as recorded in the Assessor's Office is as follows:

Parcel ID	DATE OF PURCHASE	OWNER	VOLUME/PAGE NUMBER
Lot 476-1	December 1, 1990	Wiley, Richard W. Jr	1155/0497
Lot 476-2	July 24, 2002	Dolphin Point LLC	1773/0533
Lot 476-3	January 26, 1973	Paquin, Alexander J III & Beverly A.	0600/0486
Lot 477-2	October 5, 2005	Gilbert, Delphis R. Trust	2227/0728
Lot 486-1	August 14, 1984	Joyal, James M.	0879/0068

3.2 Historical Topographic Maps

Based upon inquiries to Environmental Data Resources (EDR), a contract information services company, readily available historical USGS topographic maps were reviewed to identify RECs in connection with the site. Reviewed historical topographic maps are included in **Attachment C** and summarized below:

- **1909**, Scale: 1:62,500, Winnipesaukee
- **1956**, Scale: 1:62,500, Winnipesaukee
- **1987**, Scale: 1:62,500, Winnipesaukee

1909: The map depicts the project site as undeveloped. The surrounding area is also depicted as undeveloped. A small structure is depicted on the map directly to the north of the site along the west side of what is now Frank Bean Road.

1956: The map depicts the project site as undeveloped. The surrounding area is also depicted as undeveloped. A small structure is depicted on the map directly to the east of the site along the east side of what is now Frank Bean Road.

1987: The map depicts the project site as developed with three small structures and Frank Bean Road. The map depicts a small structure directly to the east of the site along the east side of Frank Bean Road, and a small structure immediately to the north of the site along the west side of Frank Bean Road.

Pertinent site features could not be ascertained from the historical topographic maps reviewed.

3.3 Historical Aerial Photographs

Selected historical aerial photographs supplied by EDR were reviewed for the project site, if readily available, to obtain information concerning the history of development on and near the site. Evaluation of these aerials may be limited by a photograph's quality and scale. The reviewed photographs are contained in **Attachment C** and are summarized below.

- **1954**, Scale: 1"=750' Panel #: 43071-E4, Flight Date: April 24, 1954
- **1981**, Scale: 1"=750' Panel #: 43071-E4, Flight Date: April 13, 1981
- **1986**, Scale: 1"=1,000' Panel #: 43071-E4, Flight Date: May 13, 1986
- **1992**, Scale: 1"=750' Panel #: 43071-E4, Flight Date: April 29, 1992
- **1998**, Scale: 1"=500' Panel #: 43071-E4, Composite DOQQ-Date: April 12, 1998
- **2008**, Scale: 1"=500' Panel #: 43071-E4, Flight Year: 2008
- **2009**, Scale: 1"=500' Panel #: 43071-E4, Flight Year: 2009
- **2011**, Scale: 1"=500' Panel #: 43071-E4, Flight Year: 2011
- **2012**, Scale: 1"=500' Panel #: 43071-E4, Flight Year: 2012

1954: Photograph image resolution, scale or photographic quality is poor and pertinent site features are difficult to ascertain. The image depicts large areas free of vegetation along the east and west side of Morin Road (currently Frank Bean Road). Aerial photograph pre-dates the construction of Frank Bean Road and depicts Morin Road connecting Province Road to Cotton Hill Road.

1981: Photograph image resolution, scale or photographic quality is poor and pertinent site features could not be ascertained. Image depicts Frank Bean Road in its current configuration.

1986 to 1998: Photographic image resolution, scale or photographic quality is poor and pertinent site features could not be ascertained from the 1986 and 1992 photographs. The 1998 photograph depicts three small structures on site that appear to be residential in nature. Several small structures are depicted immediately east of the site, which appear to be part of an auto salvage operation. Several large structures are depicted to the south west of the site and appear to be commercial or industrial in nature. A small structure that appears to be residential in nature is depicted immediately to the north of the site. An area free of vegetation is depicted immediately to the west of the northern portion of the site.

2008 to 2011: The site configuration, structures and surrounding site vicinity are depicted similar to the 1998 photograph; however; the area free of vegetation that is depicted immediately west of the site expanded in size sometime since 1998 and appears to be a sand pit. A structure that appears to be a large garage was built on the property immediately north of the site sometime since 1998.

2012: The site configuration, structures and surrounding site vicinity are depicted similar to the 2011 photograph.

3.4 Historical City Directories

The Polk's and Manning's city directories used in this study were made available through EDR and via the City of Laconia and were reviewed at 5-year intervals, if readily available for historic site usage. Information obtained from available directories is contained in **Attachment C** and are as follows:

PARCEL ID No.	US MAILING ADDRESS	YEAR	EDR LISTING(S)
Lot 476-1	Frank Bean Road	1973 2009	Not Listed Not Listed
Lot 476-2	108 Frank Bean Road	1973 2009	Not Listed Not Listed
Lot 476-3	120 Frank Bean Road	1973 2009	Not Listed Paquin, Alexander J. III & Beverly A
Lot 486-1	92 Morin Road	1973 2009	Not Listed Not Listed
Lot 477-2	Province Road	1973 2009	Not Listed Not Listed

City directories from 1940 refer to Leon Morin, farmer, on Cotton Hill Road. The 1947 city directory refers to both Leon Morin, farmer, and Norman Morin, emp S&W, on Cotton Hill Road. The 1950 directory no longer refers to Mr. Leon Morin but does list Normand Morin, wood dealer, at Cotton Hill Road. Neither Leon nor Normand Morin is referenced within the 1955 directory.

3.5 Historical Sanborn Fire Insurance Maps

During the late 19th Century, companies such as the Sanborn Company began preparing maps of central business districts for use by fire insurance companies. These maps were periodically updated and expanded geographically through the 20th Century. Fire insurance maps often indicate construction materials, specific property use, and the location of other features such as gasoline storage tanks. Based upon inquiries to EDR, a licensed Sanborn provider, fire insurance maps covering the target properties were not found.

3.6 Prior Report Review

Final Site Inspection Report, Weston Solutions, December 22, 2009

The former burn dump/landfill located along Frank Bean and Morin Roads was initially discovered during the excavation for a building foundation on the property of Mr. David Farley/Dolphin Point LLC (Map 476 Lot 2) in 2003. In May 2003, NHDES received a complaint

and request to investigate from an adjacent property owner. The complaint alleged buried refuse had been unearthed and foul odors were present. The City of Laconia, the NHDES and the EPA were informed that buried solid waste was encountered during the excavation at the Farley property. The EPA requested access to several properties on Frank Bean Road and Morin Road in September 2003 so that an investigation could be conducted to evaluate the extent and impacts of the former burn dump in the areas of Frank Bean Road and Morin Road.

On August 9, 2007 and May 12, 2008, Weston Solutions, Inc. (Weston), on behalf of the EPA, conducted a Combined Preliminary Assessment /Site Inspection of the Frank Bean Road property. The Combined Preliminary Assessment /Site Inspection included nine individual parcels located on Frank Bean Road and Morin Road. Weston conducted interviews with Frank Bean Road and Morin Road residents and with City of Laconia DPW employees to try and determine the history, prior uses and geographical extent of the former burn dump/landfill in the areas surrounding Frank Bean Road and Morin Road. According to Weston, the area was historically owned by a Mr. Leon Morin who either accepted city of Laconia waste for a fee, or leased the property to the city of Laconia for purposes of operating the burn dump. The burn dump was reportedly in operation during the 1920s to the mid-1950s.

Drinking water samples were collected on November 10, 2008 from four nearby drinking water supply wells for water quality evaluation. Drinking water samples did not contain analytes in excess of NHDES AGQS; however, six metals (arsenic, copper, lead, iron, manganese, and nickel) were considered elevated and likely derived from the burn dump materials.

On-site surface and subsurface soil sampling was conducted at the nine individual parcels between November 3 and 7, 2008. In total, 41 surficial sol samples and 32 subsurface soil samples were collected and analyzed by Weston. In addition, seven sediment samples were collected from the unnamed stream. Based on the analytical results, Weston concluded VOCs, PAHs and metals existed in soils at the site at concentrations in excess of their applicable Soil Remediation Standard (SRS). Therefore, additional investigation and assessment was necessary.

Initial Response Action Report, Terracon Consultants, Inc., August 12, 2011

Terracon Consultants Inc. (Terracon) completed field activities in June 2011 to assess the presence and distribution of metals and PAHs in near surface soils at the presumed area of the burn dump. The work consisted of advancing shallow soil probes using a geoprobe along a grid pattern and analyzing soil samples with an x-ray fluorescence (XRF) analyzer. 305 near surface soil samples were collected for analysis.

Terracon found burn dump ash materials within near surface soils primarily focused within the southern portion of Lot 476-3 (Paquin), Lot 476-2 (Farley/Dolphin Point), the northern half of Lot 476-1 (Wiley), and the northern portion of Lot 486-1 (Joyal). The ash materials generally contained

metals in excess of NHDES SRS. A relatively thin veneer of clean fill material was generally found at ground surface. A preliminary risk evaluation suggested that surficial soil within the study area was unlikely to pose a significant risk to residents/workers.

In an April 20, 2012 response letter, the NHDES suggested that a risk characterization of near surface soils would not decrease the requirement for mitigation. The NHDES suggested resources would be better spent on developing remedial measures that will control exposure pathways. The NHDES also requested the completion of this current SIR.

4.0 RECORDS REVIEW

As part of this assessment, Sovereign retained EDR to provide regulatory database information. The purpose of the records review was to identify environmental concerns in connection with the site. Evaluating identified regulatory facilities for potential vapor intrusion conditions was outside the scope of this assessment. Information in this section is subject to the accuracy of the data provided by the information services company and the date at which the information is updated, and the scope herein did not include confirmation of facilities listed as "unmappable" by regulatory databases. In some of the following subsections, the words upgradient, crossgradient and downgradient refer to the hydraulic gradient in relation to the site.

4.1 Federal and State/Tribal Databases

Listed below are the facility listings identified on federal and state/tribal databases within search distances from the property.

Federal and State Databases

Database	Description	Radius (miles)	Listings
Federal			
NPL	The NPL is the EPA's database of uncontrolled or abandoned hazardous waste facilities that have been listed for priority remedial actions under the Superfund Program.	1.0	0
NPL (Delisted)	The NPL (Delisted) refers to facilities that have been removed from the NPL.	1.0	0
CERCLIS	The CERCLIS database is a compilation of facilities which the EPA has investigated or is currently investigating for a release or threatened release of hazardous substances pursuant to the CERCLA of 1980.	1.0	1
CERCLIS/ NFRAP	CERCLIS/NFRAP refers to facilities that have been removed and archived from EPA's inventory of CERCLA sites.	0.5	0

Database	Description	Radius (miles)	Listings
RCRA CORRACTS/ TSD	The EPA maintains a database of RCRA facilities associated with treatment, storage, and disposal (TSD) of hazardous waste that are undergoing "corrective action." A "corrective action" order is issued when there has been a release of hazardous waste or constituents into the environment from a RCRA facility.	1.0	0
RCRA Non-CORRACTS/ TSD	The RCRA Non-CORRACTS/TSD Database is a compilation by the EPA of facilities which report storage, transportation, treatment, or disposal of hazardous waste. Unlike the RCRA CORRACTS/TSD database, the RCRA Non-CORRACTS/TSD database does not include RCRA facilities where corrective action is required.	0.5	0
RCRA Generators	The RCRA Generators database, maintained by the EPA, lists facilities that generate hazardous waste as part of their normal business practices. Generators are listed as either large (LQG), small (SQG), or conditionally exempt (CESQG). LQG produce at least 1000 kg/month of non-acutely hazardous waste or 1 kg/month of acutely hazardous waste. SQG produce 100-1000 kg/month of non-acutely hazardous waste. CESQG are those that generate less than 100 kg/month of non-acutely hazardous waste.	0.25	0
Institutional and Engineering Controls	A listing of sites with institutional and/or engineering controls in place. IC include administrative measures, such as groundwater use restrictions, construction restrictions, property use restrictions, and post remediation care requirements intended to prevent exposure to contaminants remaining on site. Deed restrictions are generally required as part of the institutional controls. EC include various forms of caps, building foundations, liners, and treatment methods to create pathway elimination for regulated substances to enter environmental media or effect human health.	0.50	0
ERNS	The Emergency Response Notification System (ERNS) is a listing compiled by the EPA on reported releases of petroleum and hazardous substances to the air, soil and/or water.	Site	0
State			
SHWS	The New Hampshire Department of Environmental Services (NHDES) maintains a database of state equivalent CERCLIS facilities in the State of Massachusetts.	1.0	0
SWF/LF	State and/or Tribal database of solid waste facilities. The database information may include the facility name, class, operation type, area, estimated operational life, and owner.	0.5	0
LAST/LUST	State and/or Tribal database of leaking aboveground/underground storage tanks.	0.5	0
UST	State and/or Tribal database of registered storage tanks in the State of Massachusetts which may include the owner and location of the tanks.	0.25	0

In addition, Sovereign reviewed other federal, state, local and proprietary databases provided by the database firm. A list of the additional databases reviewed by Sovereign is included in the regulatory database report included in **Attachment C**.

Below are summaries of the site-specific information provided by the database and/or gathered by this office for identified facilities. One facility with relative significance located hydrologically upgradient was identified in proximity to the site. In addition, the target property was listed within the CERCLIS, FINDS and ICIS databases. Below is a summary of the target property found in the EDR report:

- ***Laconia Motorbike LLC: 144 Frank Bean Road, Laconia, NH***

  This business is listed within the EDR Historical Auto Station database for years 2011 and 2012. The database is created by EDR listing potential gas stations based on review of business directories. The database attempts to present "high risk historical records" that may not currently show up in government records searches. The business is likely the motorcycle sales and repair shop originally identified by Weston within their 2009 report as located on the Former Giguere property. Adverse environmental impacts have not been associated with this facility to date.

- ***Frank Bean Road Landfill Site: 113 & 351 Frank Bean Road, Laconia, NH (Target Property)***

  The site was identified as the target property and was listed within the CERCLIS, FINDS and ICIS databases. The listings use two different addresses: 113 & 351 Frank Bean Road. The Reed Auto Wrecking business across the street from the burn dump is located at 113 Frank Bean Road. Further, the business owners; William and Raymond Reed, are listed as the primary responsible party (PRP) associated with the site. The CERCLIS listing refers to the site as "non-NPL" state lead cleanup, consistent with the completion of this report. The FINDS and ICIS listing relate to the CERCLA Administrative Order issued for access or information likely in relation to the Weston investigation. For a more detailed summary of the regulatory history refer to **Section 3.6**.

According to EDR, unmapped facilities are those that do not contain sufficient address or location information to evaluate the facility listing locations relative to the project site. Based on this, the EDR report identified 43 listings in the orphan/unmapped section. It should be noted that determining the location of unmapped facilities is outside the scope of this assessment; however, none of these facilities were identified as the target properties.

4.2 Site Regulatory History

Based on the identified databases summarized by EDR, Sovereign also completed an online search of the NHDES OneStop, site lookup and searchable site database for the listed facility (http://des.nh.gov/onestop/index.html). Documents prior to 2003 at OneStop were not available for review. A summary of the environmental response action reports submitted to the NHDES OneStop website and a brief response action history is summarized below.

Date of Submittal	Submittal Date/Response Action History
July 22, 2003 through December 20, 2004	Correspondence between NHDES, USEPA, David Farley (Map 476 Lot 2) and Weston Solution discussing the discovery by Mr. Farley of old dump/landfill on his property and the requests by the NHDES and USEPA for Site Investigation on the Farley property.
September 12, 2006 through October 27, 2008	Request for Access to Farley (Map 476 Lot 2), Joyal (Map 486 Lot 1), Reed (Map 476 Lot 5) and Young (Map 486 Lot 2) Properties by EPA for CERCLA Site Investigation.
March 24, 2009	Trip Report for Frank Bean Road Combined Preliminary Assessment/Site Inspection submitted to NHDES and site property owners.
July 15, 2009	Environmental Health Program review of water supply sampling results letters sent to site property owners
December 28-30, 2009	Final Site Inspection Report for Frank Bean Road submitted to NHDES and to site property owners by Weston Solutions.
July 28, 2010	Request for Response Actions by NHDES to the City of Laconia to further investigate the impacts and extent of Former Burn Dump.
April 15, 2010	Proposed IRA Work Plan for Frank Bean Road Sites submitted to NHDES by Terracon Consultants.
August 12, 2011	Initial Response Action Report submitted to NHDES by Terracon Consultants.
April 20, 2012	NHDES reviews IRA submitted by Terracon Consultants and request further investigation of the Frank Bean Road Site.
July 5, 2012	Site Investigation Work Plan for Former Burn Dump submitted to NHDES by Sovereign Consulting
March 7, 2013	NHDES provides approval of the proposed Site Investigation Work Plan

4.3 Municipal Regulatory Review

A review of the local municipal files maintained by the city of Laconia, New Hampshire, concerning the subject properties was conducted by a Sovereign representative. Department employees were interviewed in regards to environmental conditions such as complaints, violations, USTs, hazardous materials incidents, and permits. A list of the departments visited is outlined below.

- Assessors
- Planning/ Zoning /Code Enforcement
- Building /Inspectional Services
- Fire Department

Information obtained from the Assessor's office is summarized below**:**

Joyal Residence, 92 Morin Road, City of Laconia Lot 486-1

According to the assessor's property card for this location, Mr. James Joyal purchased the property in 1984. Historical records suggest Ms. Elodore Larrivee purchased the property in March 1939 and sold the property in March 1964 to Mr. George Curley. Ms. Linda Joyal purchased the property in May 1966. The property card indicates the original building was constructed in 1966, with replacement framing completed in the 1970's. An addition and full foundation was completed in 2000.

Wiley Property, Frank Bean Road, City of Laconia Lot 476-1

According to the assessor's property card for this location, Mr. Richard Wiley Jr. purchased the property from Jamie Lynn Carnie in 1990. Ms. Carnie appears to have purchased the property from Mr. Wiley one year earlier. Mr. Wiley originally purchased the property 1974. The earliest record of property transfer contained in the municipal records was R and W Perry purchasing the property in 1948. The property was then sold to A Plamondon in May 1956, and again in July 1972 to S Gordon. The property card indicates the existing garage building was constructed in 1975.

Farley Property, 108 Frank Bean Road, City of Laconia Lot 476-2

According to the assessor's property card for this location, Dolphin Point LLC purchased the property from Michael and Steven Whalley in 2002. It appears Michael and Steven Whalley purchased the property in 1987 from Raymond Simoneau. First available ownership records for this property suggest the purchase in 1908 by Mr. Frederick Meader. Mr. Leon Morin purchased the property in March 1915. The property was then sold to Normand and Cora Morin in May 1946. Mr. Steven Blackey purchased the lot in December 1968. Two additional sales of the property occurred during the 1970s to James and Dorothy Straham and David Howland. The property card indicates the existing building was constructed in 2003.

Paquin Residence, 120 Frank Bean Road, City of Laconia Lot 476-3

According to the assessor's property card for this location, Alexander and Beverly Paquin III purchased the property from Pauline Blackey in 1973. Leon Morin purchased the property in August 1916. The property ownership was transferred to Normand Morin in May 1946. Mr. Morin sold the property to Clarence Bean in January 1964. Mr. Bean sold to Ms. Blackey in April 1972. The property card indicates the existing home was constructed in 1940.

4.4 Historical Use Information Summary

Based on the historical information gathered for this study it appears that the subject site was primarily owned by Mr. Leon Morin and Mr. Normand Morin who either operated a burn dump which collected municipal waste, or leased land to the City of Laconia for their operation of a burn dump. The burn dump was reported to have operated from the 1920s to the mid-1950s. The Joyal property may have been leased from Elodore Larrivee starting in the 1940's. The covered dump lands were then sold off as individual parcels for both residential and commercial use from 1948 to 1968.

The earliest information about erection of buildings was at the Paquin residence (Lot 476-3), where according to municipal records, the current structure was constructed in 1940. The Joyal residence (Lot 486-1), was reportedly constructed in 1966. The garage building at the Wiley property (Lot 476-1), was reportedly constructed in 1975. The building at the Dolphin Point property (Lot 476-2) was constructed in 2003.

5.0 SITE RECONNAISSANCE

5.1 Site Observations

Given the subject parcels are owned by individual third party entities, site observations for this investigation were limited. In some instances, access to the interior of a building was provided, and where relevant, observations are reported. In general, observations were limited to exterior yards.

Site Operations, Processes, and Equipment

Heating and/or cooling systems
The buildings within the subject site are reportedly each heated utilizing oil-burning furnace units. Overt indications and or evidence of environmental concerns associated with the heating / cooling system equipment were not observed. Heating oil is stored within above ground storage tanks described below.

Aboveground Chemical or Waste Storage

Aboveground Storage Tanks (ASTs)

- **Farley Property (Lot 476-2)** - One, approximate 500-gallon fuel oil AST is located on the west side of the site building. The AST appeared to be in good condition and is covered and within a containment tray. Surficial staining and/or surficial spills which would indicate a significant release and/or a chronic leak were not observed on or in the vicinity of the AST. Surficial staining of the ground surface was not observed beneath the AST.

- **Paquin Property (Lot 476-3) –** Two, 275-gallon fuel oil ASTs are located on the west side of the Paquin residence. The AST's are located beneath an enclosed porch area. Overt indications of leaks or spills were not observed.
- **Joyal Property (Lot 486-1) –** A 275-gallon heating oil tank is located within the basement of the residence. Overt indications of leaks or spills were not observed.
- **Wiley Property (Lot 476-1) –** Aboveground fuel storage tanks were not observed on the exterior of the building.

Drums, barrels and/or containers ≥ 5 gallons

- **Wiley Property (Lot 476-1) –** Several 275-gallon polypropylene water storage tanks were observed along the south side of the site building. The storage containers are reportedly used for the collection of runoff/precipitation. Two plastic 55-gallon drums were observed on the eastern portion of the site. Both drums contained a small amount of what appeared to be waste oil. The drums were in good condition with no visible leaks or staining. A number of additional blue plastic drums were piled on the southwest corner of the property but appeared to be empty. Surficial staining and/or surficial spills which would indicate a significant release and/or a chronic leak were not observed on or in the vicinity of the drum(s).
- **Farley Property (Lot 476-2) –** One black steel 55-gallon drum was observed just outside of the entrance along the western side of the building. The drum contents were not investigated but are presumed to be waste oil. The drum was in good condition with no visible leaks or staining. Surficial staining and/or surficial spills which would indicate a significant release and/or a chronic leak were not observed on or in the vicinity of the drum.

Underground Chemical or Waste Storage, Drainage or Collection Systems

Underground storage tanks or ancillary UST equipment

Underground storage tanks are not known to be on the subject properties.

Sumps, cisterns, catch basins and/or dry wells

Catch basins were observed along Frank Bean and Morin Road, however, no catch basins were observed on the site. The catch basins are part of a municipal drain network used for the collection and distribution of surface water runoff.

Subsurface Disposal Systems

Given the lack of municipal connections along Frank Bean Road, it is presumed that each of the residential subject parcels utilizes private on-site subsurface disposal /septic systems for sanitary waste. We note, the lack of water supplies and observation of exterior portable toilets suggests the two commercial properties do not currently utilize private on-site subsurface disposal/septic systems for sanitary waste.

5.2 Interviews Conducted During Visual Reconnaissance

Sovereign briefly interviewed shop employees at both current operations from CBH Landscape and Dolphin Point/Diversified Marine to ask if chlorinated parts cleaners/degreasers are currently in use within their shops. In both instances employees indicated chlorinated solvents were not in use at their facilities.

5.3 Potential Receptors

Evaluation of potential sensitive receptors generally involves the assessment of a contaminant source and routes of human exposure (e.g., dermal contact, ingestion). A potential receptors survey was completed through inquires at local agencies, reviewing pertinent site records, and completing a 'windshield receptors survey' of the vicinity. Potential sensitive receptors such as buildings, surface water bodies and water supply wells located downgradient of the contaminant source were recorded. Particular emphasis is placed on younger at risk populations (e.g., school-age children).

Based on the adult-only presence, accessible contaminated soils, and high frequency/low-intensity use of the properties, the soils are classified as S-2 under the DES Risk Characterization and Management Policy (RCMP). Based on the presence of private drinking water wells, groundwater in the vicinity and beneath the subject site is classified as category GW-1, as is applicable to all sites in New Hampshire.

A potential receptors map is included as **Figure 2**. A list of property ownership within 1,000-feet of the site is provided as **Table 1**.

5.3.1 Surface Water and Wetlands

The closest surface water body to the site is an unnamed stream located just north of the subject site along the northern property boundary of the Former Giguere property (Lot 476-4) crossing beneath Frank Bean Road and entering a wet area on Lot 475-18, located northeast of the subject site. An unnamed intermittent stream is located about 1,000 feet to the east/southeast of the site, leading to Durkee Brook located across Route 107 to the southwest of the site. Other surface water bodies are not known to exist within 1,000-feet of the subject site.

5.3.2 Drinking Water Supplies

According to the City of Laconia, municipal water service is available along Province Road (Route 107) with service provided to the ice arena and the industrial condomium complex located just downgradient from the site. The municpal service does not extend up Frank Bean or Morin Roads.

Private water supply wells are utilized along Morin and Frank Bean Road. The Joyal residences' (Lot 486-1) drinking water supply well is located on the south end of the property within the wooded region. The Wiley and Farley properties (Lot 476-1 and Lot 476-2, respectively), do not currently have water supplied to the properties. The Paquin residence (Lot 476-3), reportedly obtains water from a connection to a water supply well located on the adjacent Former Giguere property (Lot 476-4). Reed Auto Wrecking (Lot 476-5), across Frank Bean Road from the site, maintains two water supply wells. A private drinking water supply is also utilized at the Young Residence located at 39 Morin Road (Lot 486-2).

Each of these private water supplies has been sampled on at least two occasions. All of the water supply wells listed were sampled and analyzed by Weston on November 10, 2008. NHDES completed a follow up sampling round of the water supplies on June 11, 2009. The City of Laconia contracted Eastern Analytical, Inc. of Concord, New Hampshire to complete sampling of the Joyal and Paquin residence water supplies on November 21, 2011. Analyses to date have not indicated compounds/analytes above applicable drinking water standards. We note cis-1,2-Dichloroethene (1,2-DCE) has been detected during the past two sampling events at low levels (1.6 and 2.3 ug/l) within the Joyal water supply. The AGQS for 1,2-DCE is 70 ug/l.

Based on these results, adverse impacts to drinking water quality in the region have not been documented.

5.3.3 Buildings and Subsurface Structures

Subsurface structures within the subject site include a crawl space at the Paquin residence (Lot 476-3), and full basement at the Joyal residence (Lot 486-1). The structures at the Wiley (Lot 476-1) and Farley (Lot 476-2) properties are reportedly supported on conventional spread footings and slab-on-grade construction. An additional residential structure (Young residence) is located southeast of the study region along Morin Road (Lot 486-2). Subsurface utility conduits are also located along Frank Bean Road immediately downgradient of the site and include but are not limited to stormwater drainage. Given the type of contaminants and depth of groundwater in the local area, local buildings do not appear to be at risk for vapor intrusion concerns.

5.3.4 Schools and Institutions

According to our site reconnaissance, no institutions or schools are known to exist within 1,000 feet of the site. The closest institutions are the Laconia Head Start located approximately 3,200 feet northwest of the site, and Lakes Region Community College located approximately 3,500 feet west to southwest of the site. A childrens activity center is located approximately 870 feet southwest of the site.

6.0 INVESTIGATION SUMMARY

Investigations conducted by Sovereign for this Level 1 SIR report included:

- Geophysical Survey on August 14, 2013;
- Advancement of twenty (20) test borings and installation of eleven (11) monitoring wells on September 9 through 13 and 16, 2013;
- Collection of five (5) representative ash samples from near surface soils; and
- Two (2) rounds of groundwater sampling completed on October 2 and 3, 2013 and October 16 and 17, 2013.

Details and methods of these activities are further provided in the following sections.

6.1 Geophysical Survey

A geophysical survey was completed to evaluate the lateral extent and thickness of the burn dump. Sovereign subcontracted Hager-Richter Geoscience, Inc. (H-R) of Salem, New Hampshire to assess both the vertical and horizontal limits of the burn dump materials. Based on their understanding of the project, H-R suggested the use of both electrical resistivity imaging (ERI) and electromagnetic induction terrain conductivity (EM31) surveying. ERI provides information primarily related to the thickness of materials, while EM31 focuses on the lateral limits of the materials.

The success of geophysical techniques is quite site-specific, and thus, H-R suggested completion of a pilot study to confirm the effectiveness of the geophysical tools prior to full-scale implementation. The pilot program was thus completed on August 14, 2013 at the Joyal residence (Lot 486-1) property. The pilot program did not provide reliable information and a decision was made at the end of the one day pilot test, to cancel the remaining two scheduled days of geophysical work.

H-R provided a geophysical results report which is included as **Attachment D**. We note, although not effective for burn dump delineation, usable information was obtained along the lateral margin of the former landfill area. Therefore, these techniques may be helpful in delineating the former landfill region (pre-1981 Morin Road dump) scheduled for completion in 2014.

6.2 Subsurface Exploration and Well Installation

Given the lack of reliable information derived from the abbreviated geophysical program, a more robust drilling program was undertaken to aid in delineating the burn dump region. The original program assumed fifteen (15) borings to a depth of 20 feet, or 300 total linear feet. The actual program completed included twenty (20) borings ranging in depth from approximately 9 to 62 feet

below surface grade, totaling 483 linear feet. The added footage represents additional lateral delineation borings at the presumed margins of the burn dump and greater depths to groundwater at most monitoring well locations.

Sovereign provided oversight and direction of Geosearch Inc. of Fitchburg, Massachusetts (GeoSearch) during the advancement of the twenty borings and eleven monitoring wells (SB-101/MW, SB-103/MW, SB-104/MW, SB-105/MW, SB-107/MW, SB-108/MW, SB-109/MW, SB-110/MW, SB-118/MW, SB-119/MW and SB-120/MW). The purpose of these monitoring wells was to assess the groundwater quality in association with the burn dump. Monitoring well SB-118/MW was installed at a location presumed to be upgradient of the burn dump and is intended as a background location.

The test borings were advanced using a truck-mounted drill rig and hollow stem augers. Borings were advanced to a maximum depth of 62 feet bgs (SB-118/MW) and a minimum of 9 feet bgs (SB-115, SB-116, and SB-117). Standard Penetration Tests were performed by driving the split-barrel sampler with a 140-pound auto-hammer falling 30 inches in general accordance with American Society for Testing and Materials (ASTM) Standard D 1586.

Soil samples were typically obtained continuously from ground surface using split barrel samplers. Soil samples were field screened using a calibrated Ion-Science Pro Check photoionization detector (PID) equipped with a 10.6 electron volt (eV) bulb and a jar headspace methodology. PID readings ranged from less than 1.0 ppmv to 159.5 ppmv. Based on PID readings, the depth of the water table, or ash presence, select soil samples were immediately collected via EPA 5035 for VOCs and placed in laboratory supplied, preserved containers and submitted to Aquarian Analytical, Inc. (AAI) of Canterbury, New Hampshire for laboratory analysis of VOCs by the NHDES *Petroleum and Hazardous Waste Remediation Full List of Analytes* via EPA Method 8260B. Samples were also collected for laboratory analysis of polycyclic aromatic hydrocarbons (PAHs) via EPA Method 8270M, and 13-priority pollutant metals via Method 6020A. Soil descriptions and PID readings are presented on the boring logs included as **Attachment E**.

Upon completion of the drilling, the remaining boreholes were backfilled with soil cuttings or constructed as monitoring wells. The monitoring wells were typically constructed with 10 feet of 2-inch diameter, schedule 40 polyvinyl chloride (PVC) 0.010-inch slotted screen and 2-inch diameter, schedule 40 PVC casing from the slotted screen to the surface. The boring annulus around each monitoring well screen was filled with No. 2 Morie sand in order to limit the potential for fine sands and silts obstructing the monitoring well screen. Bentonite was placed above the sand filter pack to seal each monitoring well from surface water intrusion. Following placement of the Bentonite seal, monitoring wells were backfilled to grade using clean native soil and finished at grade with a 6-inch flush-mounted road box secured in a 2-foot by 2-foot concrete pad. The approximate test boring/monitoring well locations are depicted on **Figure 3**.

The eleven (11) newly installed monitoring wells were developed using a disposable WhaleCo™ surge block by rapidly surging and removing groundwater, removing a minimum of three to five volumes of water. The well development process removes potentially stagnant water from the monitoring well, removes fines from the surrounding sand pack, and allows a fresh influx of groundwater from the surrounding geologic formation, thereby providing a more representative sample.

City of Laconia personnel conducted a wellhead elevation survey to provide the necessary data for mapping groundwater table elevations and establishing groundwater flow direction. The locations and elevations of the test boring and monitoring wells were determined in the field by survey and GPS measurements. A temporary benchmark (TBM) of 100.0 feet was established by setting a nail in a telephone pole along the southeastern property boundary of Lot 476-3. Wellhead top of casing elevations were surveyed relative to this arbitrary benchmark and are shown on **Table 2,** and the soil boring/monitoring well locations are depicted on **Figure 3**.

6.3 Ash Sampling

Select ash samples were collected from near surface soil samples across the subject site. Five (5) ash grab samples (SS-1 through SS-5) were collected at the approximate locations shown on **Figure 3**. The ash samples were placed in laboratory supplied containers and submitted to AAI for laboratory analysis of both total chromium and hexavalent chromium. Laboratory reports are provided in **Attachment F**.

6.4 Groundwater Sampling

On October 2 and 3, 2013 and October 16 and 17, 2013, Sovereign personnel collected groundwater samples from the eleven newly-installed monitoring wells. During the sampling events, depth to water was measured and samples were collected utilizing a low flow sampling technique. However, several wells contained a minimal water column or the well did not have ample recharge, thus requiring the use of a bailer for sample collection. An electronic water level meter was used to measure depth to water (DTW). A YSI multi-meter was utilized to measure the following field parameters from collected groundwater: conductivity, temperature, oxidation/reduction potential (ORP), dissolved oxygen (DO), and pH. Groundwater samples from each monitoring well were collected in laboratory supplied containers and placed on ice during transportation under proper chain-of-custody procedures to AAI. Groundwater samples were analyzed for the presence of volatile organic compounds (VOCs) by *NHDES Petroleum and Hazardous Waste Remediation Full List of Analytes*, via EPA Method 8260B; PAHs via EPA Method 8270M and 13-priority pollutant metals via Method 200.8. Samples collected for pollutant metals were field filtered prior to preservation and delivery to the laboratory. Field measurements collected during the two groundwater sampling events are summarized on **Table 2**. Laboratory Reports are provided in **Attachment F**.

7.0 HYDROGEOLOGIC AND CONTAMINANT EVALUATION

7.1 Physical and Hydrogeologic Setting

As shown on the United States Geological Survey (USGS), 7.5-Minute Series *Topographic Map of the Laconia, New Hampshire Quadrangle,* the subject site is located at an average elevation of about 680 feet above Mean Sea Level.

According to the USGS *Geohydrology and Water Quality of Stratified-Drift Aquifers in the Winnipesaukee River Basin, Central New Hampshire Water Resources Investigations Report 94-150*, the native overburden at the site consists of a coarse grained stratified drift deposit. The aquifer consists primarily of medium sand to cobble-sized materials. Transmissivity values of 1,000 to 2,000 feet squared per day (ft^2/day) were suggested. This information is consistent with the presence of an active sand and gravel operation adjacent to the site. One primary native stratigraphic unit was encountered within the explorations conducted at the site. A stratified drift deposit was encountered within each boring to termination depths ranging from 9 to 62 feet bgs. The natural deposit drift was generally comprised of coarse to fine sand with little to trace silt and gravel. Bedrock may have been encountered in one boring (SB-118/MW) at a depth of 62 feet bgs.

An unnamed stream is located within about 1,000 feet of the subject parcels to the east and southeast. The unnamed stream discharges to the south into Durkee Brook located about 2,500 feet to the south.

Depth to groundwater levels measured in the monitoring wells were found to range from about 7.26 to 45.92 feet bgs (see **Table 2**). Groundwater table elevation contours for the October 16 and 17, 2013 sampling event have been developed and are presented on **Figure 4**. Groundwater flow is to the south and west, and the water table surface gradient is approximately 0.09 feet/foot across the site. We note monitoring well SB-118/MW is screened significantly deeper than the other wells and may represent an added vertical downward component; therefore, the gradient to the west may be somewhat overstated.

7.2 Hydraulic Conductivity Testing Program

On October 16, 2013, Sovereign personnel performed single well permeability testing on monitoring wells SB-105/MW, SB-110/MW, and SB-120/MW. Four (4) permeability tests were conducted on each well utilizing a 1-liter slug and a Level Troll 700 data logger. The AQTESOLV computer model was utilized to calculate the hydraulic conductivity values of the surficial aquifer materials in the vicinity of the screened interval of each of the above mentioned wells. Slug Test Reports prepared in AQTESOLV are included in **Attachment G**.

Slug tests performed on monitoring wells SB-105/MW, SB-110/MW, and SB-120/MW yielded average hydraulic conductivity values of 1.88 feet per day (ft/day), 5.60 ft/day, and 3.61 ft/day, respectively. The geometric mean of the hydraulic conductivities from the three permeability tests was calculated to be approximately 3.28 ft/day. This value is characteristic of fine to medium sand and is consistent with soil conditions documented during the advancement of test borings for this study.

Using an average hydraulic conductivity 3.28 ft/day, a hydraulic gradient of 0.09, and a porosity of 0.30, a site specific groundwater seepage velocity of 359 feet per year was estimated.

7.3 Burn Dump Characterization

7.3.1 Burn Dump Areal Extent

As a part of the scope of this investigation, the general physical dimension of the burn dump was assessed. Burn dump materials are easily recognizable in the field as they contain ash, slag, and glass. Based on the results from the original Weston investigation along with direct knowledge reports from long-time resident Mr. Jim Joyal, the areal extent of the dump was presumed to be limited by portions of Morin and Frank Bean Roads to the east; the former Giguere property to the north; and the western property boundaries of the subject properties. The approximate extent of the burn dump is shown on **Figure 5**.

According to Mr. Joyal, the access road to the burn dump was up Morin Road and joined into (what is now) Frank Bean Road at the top of the hill in front of the auto salvage yard. Mr. Joyal reports the burn dump never encroached to the east beyond this access roadway. Borings SB-111, SB-112, and SB-113 were advanced along the shoulder of Morin Road to confirm this report. Burn dump materials were not observed within these three borings, corroborating the report. Additionally, Weston borings SB-20 and SB-24 located east of Frank Bean Road did not contain burn dump materials.

The northern boundary was reported by Mr. Joyal to extend to the northern portion of the Paquin property (Lot 476-3). Our original work plan included confirmatory borings on the southern portion of the Giguere property (Lot 476-4). An access agreement was secured in April 2013, however, the property was sold in summer 2013 without our knowledge, and the new owners were unaware of the field program and reluctant to provide access until proper legal review could be completed. Therefore, access was not provided during this investigation.

Two Weston borings (SB-04 and SB-05) were previously completed at this property and did not identify the presence of burn dump materials. Additionally, Sovereign boring SB-109/MW located in the northern portion of the Paquin property (Lot 476-3), contained only a 2-inch layer of ash in near surface soils with native materials below. Based on these borings and the report of Mr. Joyal,

the northern limits of the burn dump appear to be through the northern portion of the Paquin property (Lot 476-3).

The western limits of the burn dump were reported to be along the western property boundaries of Lots 476-3, 476-2, and 476-1. Most of the western property boundary of Lot 476-1 is occupied by a high bluff of native sand and gravel with a mature stand of trees. According to Mr. Joyal, these trees have been present since the operation of the burn dump. Sovereign advanced borings SB-114, SB-115, SB-116 and SB-117 to establish the western boundary of the burn dump materials. Storage of materials and machinery in this area limited access. None of the four borings contained burn dump materials. We note, boring SB-108/MW located inside of the fence on the Paquin property (Lot 476-3) did contain some burn dump material to a maximum depth of 6 feet bgs.

The southern extent of the burn dump is not well defined. Borings SB-14 and SB-102, located on the southern portion of the Wiley property (Lot 476-1), each contained a significant thickness of burn dump materials. A steep topographic slope down to the south exists from the southern property boundary onto the adjacent ice arena property. A road cut exposes burn dump materials along Frank Bean road just south of the Wiley property. Confirmatory borings at the base of the slope on the ice arena property is recommended.

According to Mr. Joyal, the southern extent of the burn dump on his property (Lot 486-1) extends just into the treeline behind his shed. He also indicated some burn dump spoils from a prior foundation excavation were deposited along the slope into the treeline. Sovereign boring SB-113 provides definition to the southeast. Additional confirmatory borings within the woodland area is suggested.

7.3.2 Burn Dump Vertical Extent

In general, the burn dump was found to be at its deepest on portions of the Wiley property (Lot 476-1) and onto the Joyal property (Lot 486-1). Geologic cross sections are provided as **Figures 6 and 7** to illustrate the vertical dump dimensions. The burn dump materials are found at depths ranging from approximately 9 feet to 21 feet bgs on the Joyal property (Lot 486-1). The burn dump materials are found at depths ranging from approximately 6 feet to the maximum depth of 32 feet bgs (SB-103/MW) on the Wiley property (Lot 476-1).

The burn dump appears to thin out gradually to the north with dump materials down to a depth of about 6 to 8 feet bgs just north of the Farley building (Lot 476-2), and thinning to just trace thicknesses within the northern half of the Paquin property (Lot 476-3). An idealized burn dump depth iso-contour map is provided as **Figure 8** illustrating the approximate burn dump dimensions and thicknesses.

7.4 Soil Contaminant Characterization

Field screening and soil analytical results were used to estimate the nature and extent of potential contaminants within soil at the subject parcels. We note, previous investigations described in **Section 3.6**, provide detailed information on contaminant characterization of near surface soils. In general, PAH and metals are found at concentrations in excess of their respective SRS where burn dump ash exists near the ground surface. Five (5) near-surface ash samples were collected as part of this investigation to assess the potential for the near surface ash to contain hexavalent chromium. Each of the five ash samples were shown to contain chromium, but none of the five contained a concentration of hexavalent chromium above method detection limits.

Soil samples collected during this investigation ranged in depth from 4 to 6 feet bgs to a maximum depth of 45 to 47 feet bgs. In general, these samples were collected in proximity to the water table and often from the underlying stratified drift deposit. As shown on **Table 3**, three of the thirteen soil samples contained metals above their respective SRS, including antimony, arsenic, lead and zinc. These three samples were all collected from the Wiley property (Lot 476-1) and ranged from 4 to 30 feet in depth. Each of the three samples consisted of burn dump materials.

Similarly, three PAH compounds were reported at concentrations in excess of SRS within shallow (4-6 feet) soil samples collected at the Wiley property (Lot 476-1). Benzo(a)pyrene and benzo(b)flouranthene were reported slightly above their respective SRS in soil samples collected from SB-101/MW and SB-102. Benzo(a)anthracene was also reported slightly above SRS within the sample collected from boring SB-102. PAHs were not reported above SRS within any of the remaining eleven soil samples analyzed. PAH analytical results are presented on **Table 4**.

Laboratory analytical results from the soil samples collected indicate eleven 8260B-VOCs were detected in soil samples above the laboratory method detection limits. However, only two were reported at concentrations that exceed their respective SRS: trichloroethylene (TCE) and tetrachloroethylene (PCE). The chlorinated solvent compounds were again found in the soil samples collected from borings JB-101/MW and JB-102. A summary of soil sample VOC analytical results are presented in **Table 5**. Weston had reported the presence of both TCE and cis-1,2 dichloroethene in a soil sample (SB-15) located in the northeastern corner of the Wiley property.

Low level impacts of 8260B-compounds, mostly alkylbenzenes, were reported from soil samples (SB-105/MW, SB-106, SB-107/MW) collected at the Farley property (Lot 476-2). None of the compounds were reported in excess of their respective SRS. The low level petroleum impacts are consistent with the findings which had indicated a petroleum presence in boring SB-11 located just north of the Farley building. Copies of the Laboratory Reports are included in **Attachment F**.

7.5 Groundwater Contaminant Characterization

Laboratory analytical results of groundwater samples collected from the eleven newly installed monitoring wells indicate the presence of VOCs, PAHs and dissolved metals at concentrations above the laboratory method detection limits. Eleven PAH compounds were detected in site groundwater; however, only two were detected at concentrations above their applicable AGQS (benzo(a)anthracene and benzo(b)flouranthene). Benzo(a)anthracene was reported above the AGQS of 0.1 micrograms per liter (ug/l) within eight of the eleven sample locations at concentrations ranging from 0.12 to 0.41 ug/l. Benzo(b)flouranthene was reported in three samples above AGQS, although the detection was not consistent between the two sampling events. Based on the low-level pervasive nature of the benzo(a)anthracene groundwater impacts, and the documented presence of this PAH in burn dump materials, the presence of the compound in groundwater is likely the result of leaching from the burn dump ash material. We note, these samples were not field filtered and represent worst case information. A summary of the groundwater PAH analytical results are presented in **Table 6.**

Seven dissolved metals were reported at concentrations above the laboratory method detection limits in groundwater samples collected from the site. These metals include: arsenic, chromium, copper, lead, nickel, selenium, and zinc. Of these seven metals, only lead was reported at a concentration in excess of its respective AGQS. Lead was detected in groundwater collected from monitoring well SB-103/MW on October 2, 2013 at a concentration of 17 ug/l, slightly above the AGQS of 15 ug/l. However, lead was not reported above detection limits in the sample collected from this well on October 16, 2013. In general, metals concentrations appear to be consistent with background conditions as represented by samples collected at monitoring well SB-118/MW. Some minimal additional metal input from burn dump material is suggested within the deeper portion of the dump (SB-1101/MW, SB-103/MW and SB-119/MW). A summary of the groundwater dissolved metals analytical results is presented in **Table 7**.

Fourteen volatile organic compounds (VOCs) were reported at concentrations above the laboratory method detection limits in groundwater samples collected from the site. Of these fourteen VOCs, only naphthalene, trichloroethylene (TCE), and vinyl chloride (VC) were reported at a concentration in excess of their respective AGQS. Naphthalene was detected in one groundwater sample collected from monitoring well SB-107/MW. SB-107/MW is located just off the northeast corner of the Farley building (Lot 476-2) and is generally in proximity to the Weston report of a petroleum source (SB-11). Naphthalene was detected at concentrations of 14 and 21 ug/l during the two October 2013 sampling rounds at SB-107/MW. The AGQS for naphthalene is 20 ug/l. Naphthalene was not reported within groundwater samples collected from the remaining ten monitoring wells.

TCE was reported in groundwater samples at concentrations ranging from <0.8 to 50 ug/l. The AGQS for TCE is 5 ug/l. The TCE dissolved-phase plume appears to extend from the Wiley

property (Lot 476—1) across Frank Bean Road onto the western half of the Joyal property (Lot 486-1). As depicted on **Figure 9**, the TCE plume appears to extend offsite to the south to an unknown distance. Additional monitoring wells south of the site are recommended.

Vinyl chloride (VC) was reported in groundwater samples collected from monitoring wells SB-105/MW and SB-107/MW; both located on the Farley property (Lot 476-2). The groundwater samples collected from monitoring well SB-105/MW contained VC at concentrations of 2.6 and 3.2 ug/l, slightly above the AGQS of 2 ug/l. A summary of the groundwater VOC analytical results is presented in **Table 8**. Copies of the laboratory analytical reports are included as **Attachment F**.

8.0 CONCEPTUAL SITE MODEL

The site is underlain by a stratified-drift deposit generally described as coarse to fine sand, little to trace silt with cobbles. An active sand and gravel operation (Gilbert Block) exists adjacent to the subject site. A dense till was encountered in one location (SB-118/MW) at a depth of about 40 feet bgs and continued to boring refusal on presumed bedrock at a depth of 62 feet bgs. Depth to groundwater at the site ranged from approximately 7.26 feet to 45.92 feet, and was calculated to flow south and west at an estimated average seepage velocity of 359 feet per year.

The site primarily encompasses four parcels identified as Lots 476-1, 476-2, 476-3 and 486-1. Currently, two of these parcels are residential use while the remaining two are used for commercial purposes. Historically these lots were operated as a burn dump by Mr. Leon Morin. Reportedly, the City of Laconia transported its waste to this facility for disposal in the 1940's and 1950's. We note, the City of Laconia does not nor has it ever owned the subject parcels. Based on accounts from a long time resident (Jim Joyal) and the results of this investigation, the dump dimensions are estimated to be about 1,000 feet in length and about 250 feet wide at its greatest width. The burn dump is as deep as about 32 feet but generally is about 15 to 20 feet in depth. Geologic cross sections are provided as **Figures 6 and 7**. Using generalized dimensions of 1,000 feet by 200 feet by 15 feet, an approximate volume of 110,000 cubic yards of burn dump material is calculated.

During this investigation, the water table was generally found to be located beneath the burn dump materials, residing instead within the stratified drift. Consequently, only low level impacts of PAHs and metals are present in site groundwater. Surface water infiltration and percolation through the burn dump materials likely mobilizes a minimal mass of PAH and metals to the groundwater. The PAH benzo(a)anthracene is found throughout most of the burn dump region at low but consistent concentrations ranging from <0.10 to 0.41 ug/l. Other PAHs and metals are generally reported at concentrations below their respective AGQS.

A petroleum source is suggested to exist in the north-central portion of the Farley property (Lot 476-2) just north of the building. Petroleum impact of soil was previously indicated by Weston at

their boring SB-11. Two Sovereign borings (SB-106 and SB-107/MW) in proximity to SB-11 also revealed petroleum impacts evidenced by elevated PID readings, soil analyses, and slight sheen on groundwater. It appears the petroleum source may be limited in size. A limited impact to groundwater was observed at monitoring wells SB-105/MW and SB-107/MW with the presence of naphthalene and alkylbenzene compounds detected at low levels. Significant lighter molecular weight volatile organics (e.g., benzene, toluene) are not found in soil or groundwater suggesting the petroleum source is an older degraded oil. The source for the petroleum is unknown but is likely related to operations subsequent to the burn dump at Lot 476-2 (Farley property).

Chlorinated solvent impacts are observed primarily at the Wiley property (Lot 476-1) extending in part onto the Farley (Lot 476-2) and Joyal (Lot 486-1) properties. TCE has been reported to exist in soil at four locations on the Wiley property. A dissolved-phase TCE plume has been shown on the Wiley property extending to the south and southeast. A source for the chlorinated solvent presence has not been determined. The source may be residual impacts from the burn dump operations, historical or current commercial operations at the Wiley and Farley properties, or from activities at the auto salvage yard located across Frank Bean and upgradient from the known impact area. Shop employees at both current operations from CBH Landscape and Diversified Marine indicated chlorinated parts cleaners/degreasers are not currently in use at these facilities.

Primary potential receptors are residents and workers at the subject parcels. Full time residents and workers at these properties are adults. Potential routes of exposure include dermal contact and inhalation to burn dump materials and potential impacts to drinking water resources. The majority of the subject area is currently covered with at least a thin layer of topsoil and/or gravel hard pack drives. Some burn dump materials are visible within the crawl space of the Paquin residence (Lot 476-3). An unfinished basement floor at the Joyal residence (Lot 486-1) also allows the potential for exposure, although we note a gravel base course is in place where concrete has not been placed. NHDES has expressed concern with the potential exposure particularly within the Paquin basement, and also the non-viability of the current cover as a long term solution to dermal contact exposures.

Sovereign has been authorized by the City of Laconia to place a concrete floor within the Paquin crawl space and finish the concrete floor at the Joyal residence as protective interim measures. Mr. Joyal has agreed to the work occurring by years end. However, Mr. Paquin has requested that work in his crawl space be delayed until next spring as his crawl space has been "buttoned up for the winter".

Local drinking water wells were last sampled in fall 2012 by Eastern Analytical, Inc. The analytical results were previously transmitted to NHDES. Adverse impact to drinking water quality by PAHs, metals and VOCs was not indicated.

A plan for providing a significant clean cover material is in progress for this site. Clean cover would mitigate the risk to dermal and inhalation exposure pathways. A number of complexities related to multiple property ownership, large physical encumbrances, dump material disposal, and site grading will need to be dealt with prior to plan implementation. Supplemental investigations and preparation of a remedial action plan will be completed prior to spring 2014.

9.0 FINDINGS, CONCLUSIONS AND RECOMMENDATIONS

9.1 Findings and Conclusions

- The site primarily encompasses four parcels identified by the City of Laconia as Lots 476-1, 476-2, 476-3 and 486-1. Currently, two of these parcels are residential use while the remaining two are used for commercial purposes. Historically these lots were operated as a burn dump from the 1920's to the 1950's.

- The former burn dump dimensions are estimated to be about 1,000 feet in length and about 250 feet wide at its greatest width. The burn dump is as deep as about 32 feet but is generally about 15 to 20 feet in depth. Using generalized dimensions of 1,000 feet by 200 feet by 15 feet, an approximate volume of 110,000 cubic yards of burn dump material is calculated.

- Analytical results of burn dump materials consistently reveal the presence of certain PAHs and metals at concentrations in excess of their respective SRS. This appears to be consistent throughout the dump area and vertically through the dump materials. Significant adverse impact to native soils has not been discovered.

- Chlorinated volatile organic compounds (CVOCs) are found primarily at the Wiley property (Lot 476-1) and extending in part onto the Farley (Lot 476-2) and Joyal (Lot 486-1) properties . TCE has been reported to exist in soil at four locations on the Wiley property. TCE was not reported within the remaining soil samples analyzed from other portions of the subject site. A dissolved-phase TCE plume has been shown beneath the Wiley property extending to the south and southeast. A source for the chlorinated solvent presence has not been determined.

- A petroleum source is suggested to exist in the north-central portion of the Farley property (Lot 476-2) just north of the building. Petroleum impact of soil was previously indicated by Weston at their boring SB-11. Two Sovereign borings (SB-106 and SB-107/MW) in proximity to SB-11 also revealed petroleum impacts as evidenced by elevated PID readings, soil analyses, and a slight sheen on groundwater. Based on the current boring information, it appears the petroleum source may be limited in size. A small area of petroleum-impacted groundwater was observed at monitoring wells SB-105/MW and SB-107/MW with the

presence of naphthalene and alkylbenzene compounds detected at low levels. Naphthalene was detected in one sample during one round at a concentration of 21 ug/l; slightly above the AGQS of 20 ug/l.

9.2 Preliminary Screening of Remedial Alternatives

A plan for mitigation of future risk at these properties is warranted. A strategy for mitigation will likely include combinations of dump material removal, installation of clean cover or engineered cap/liner, installation of pavement surfaces, changes in property use, and implementation of activity and use restrictions.

A plan for providing a significant clean cover material, or other barrier is in progress for this site. Clean cover would mitigate the risk to dermal and inhalation exposure pathways. A number of complexities related to multiple property ownership, large physical encumbrances, dump material disposal, and site grading will need to be dealt with prior to plan implementation. It is anticipated that each parcel will be evaluated separately to consider site specific risks and property owner concerns.

Supplemental investigations and preparation of a remedial action plan will be completed prior to spring 2014.

9.3 Recommendations

Sovereign suggest the following supplemental activities in response to the findings of this report:

- Supplemental subsurface investigations focused on locations upgradient and downgradient of the chlorinated solvent plume and additional deeper couplet wells within the plume;
- Complete additional borings or hand auger samples within the wooded regions south of the Wiley (Lot 476-1) and Joyal (Lot 486-1) properties to better define the southern extent of burn dump materials;
- Complete a new round of drinking water supply sampling and laboratory analyses;
- Prepare field filtered water samples for PAH analysis during supplemental groundwater sampling to better assess the potential for impacts to nearby drinking water supplies.
- Prepare a remedial action plan to mitigate potential exposures to near surface burn dump materials

FIGURES

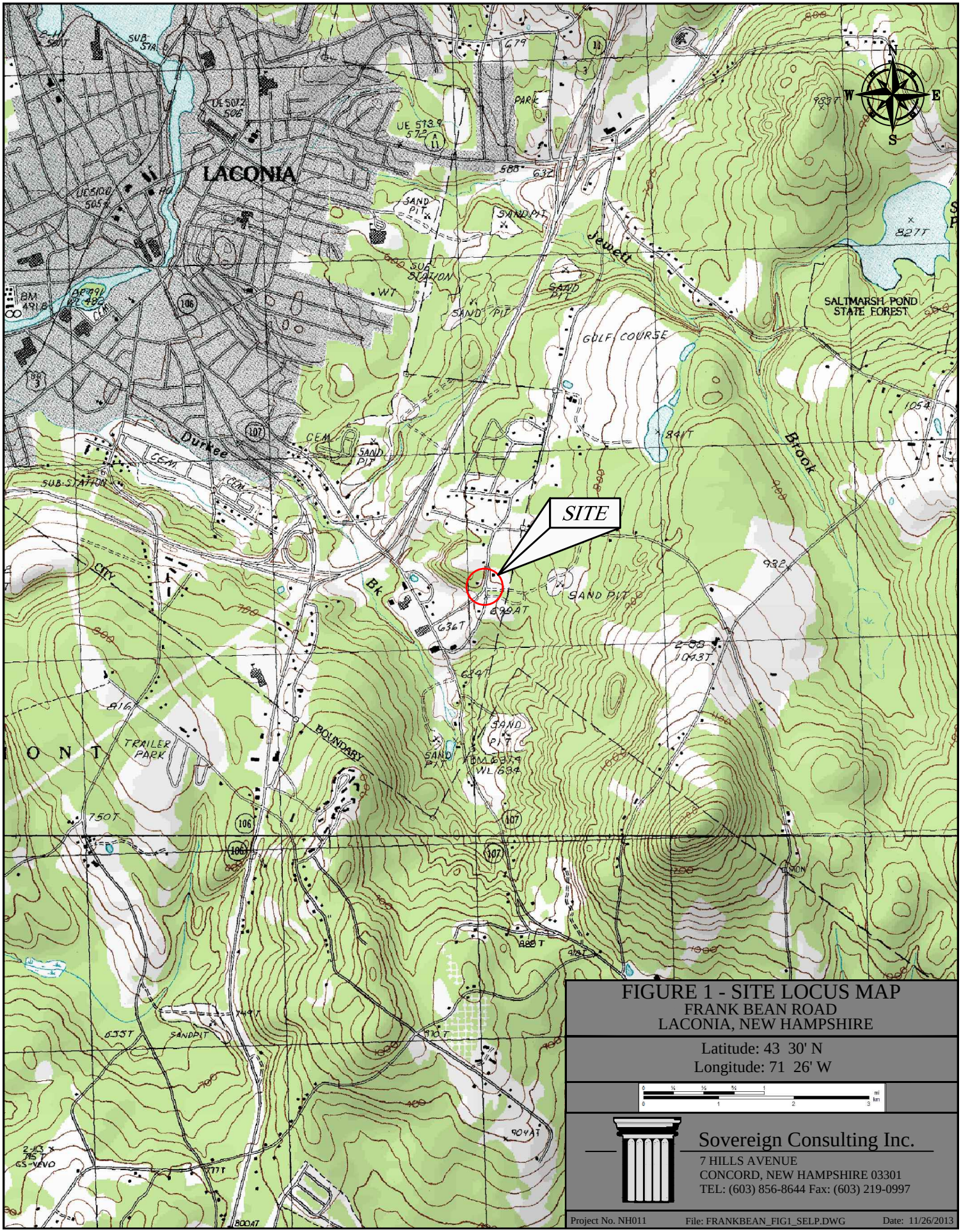

FIGURE 1 - SITE LOCUS MAP

FRANK BEAN ROAD
LACONIA, NEW HAMPSHIRE

Latitude: 43 30' N
Longitude: 71 26' W

Sovereign Consulting Inc.
7 HILLS AVENUE
CONCORD, NEW HAMPSHIRE 03301
TEL: (603) 856-8644 Fax: (603) 219-0997

Project No. NH011 File: FRANKBEAN_FIG1_SELP.DWG Date: 11/26/2013

NOTES:

1. THIS PLAN WAS PREPARED FROM TAX MAPS AVAILABLE FROM THE CITY OF LACONIA, NEW HAMPSHIRE AND THE TOWN OF GILFORD, NEW HAMPSHIRE.

2. USE OF THIS PLAN IS LIMITED TO THE APPROXIMATE LOCATIONS PERTINENT SITE FEATURES. ANY OTHER USE OF THIS PLAN WITHOUT PERMISSION FROM SOVEREIGN CONSULTING, INC. IS PROHIBITED.

PROVINCE ROAD
RESIDENTIAL
LACONIA ICE ARENA
FRANK BEAN ROAD (351)
GILBERT BLOCK SAND PIT
ROUTE 107 INDUSTRIAL PARK
MORIN ROAD (273)
JOYAL
CBH LANDSCAPERS
DOLPHIN POINT
PAQUIN
FM GIGUERE
COTTON HILL ROAD (52)
RESIDENTIAL
UNDEVELOPED (FORMER LANDFILL)
REEDS AUTO WRECKING
WOODED
CITY OF LACONIA
TOWN OF GILFORD
RESIDENTIAL
WOODED
RESIDENTIAL
ROWE FARM ROAD RESIDENTIAL DEVELOPMENT

0 200
APPROXIMATE SCALE IN FEET

LEGEND:

SITE

TOWN BOUNDARY

APPROXIMATE 1000' RADIUS

Sovereign Consulting Inc.
7 Hills Avenue
Concord, NH 03301
(603) 856-8644 Fax (603) 219-0997

Project No. NH011 File: FRANKBEAN.dwg Date: 11/26/13

FIGURE 2
TAX MAP WITH POTENTIAL RECEPTORS

FRANK BEAN ROAD
LACONIA, NEW HAMPSHIRE

NOTES:

1. THIS PLAN WAS PREPARED FROM PLANS ENTITLED, "EXISTING COVER THICKNESS FORMER BURN DUMP" AND "LEAD DISTRIBUTION PLAN FORMER BURN DUMP" DATED AUGUST, 2011 BY TERRACON, INC. OF MANCHESTER, NEW HAMPSHIRE, A PLAN ENTITLED "START SEDIMENT, SURFACE AND SUBSURFACE SOIL/SOURCE SAMPLE LOCATION SKETCH" DATED DECEMBER 21, 2009 BY WESTON SOLUTIONS OF CONCORD, NEW HAMPSHIRE, AND AERIAL PHOTOS.

2. TEST BORINGS/MONITORING WELLS SHOWN AS SB-101 THROUGH SB-120 WERE ADVANCED ON SEPTEMBER 9 THROUGH 16, 2013 UNDER THE DIRECTION OF SOVEREIGN CONSULTING, INC. WITH EQUIPMENT OWNED AND OPERATED BY GEOSEARCH, INC. OF FITCHBURG, MASSACHUSETTS. TEST BORINGS/MONITORING WELLS SHOWN AS SB-1 THROUGH SB-41 WERE ADVANCED BY OTHERS.

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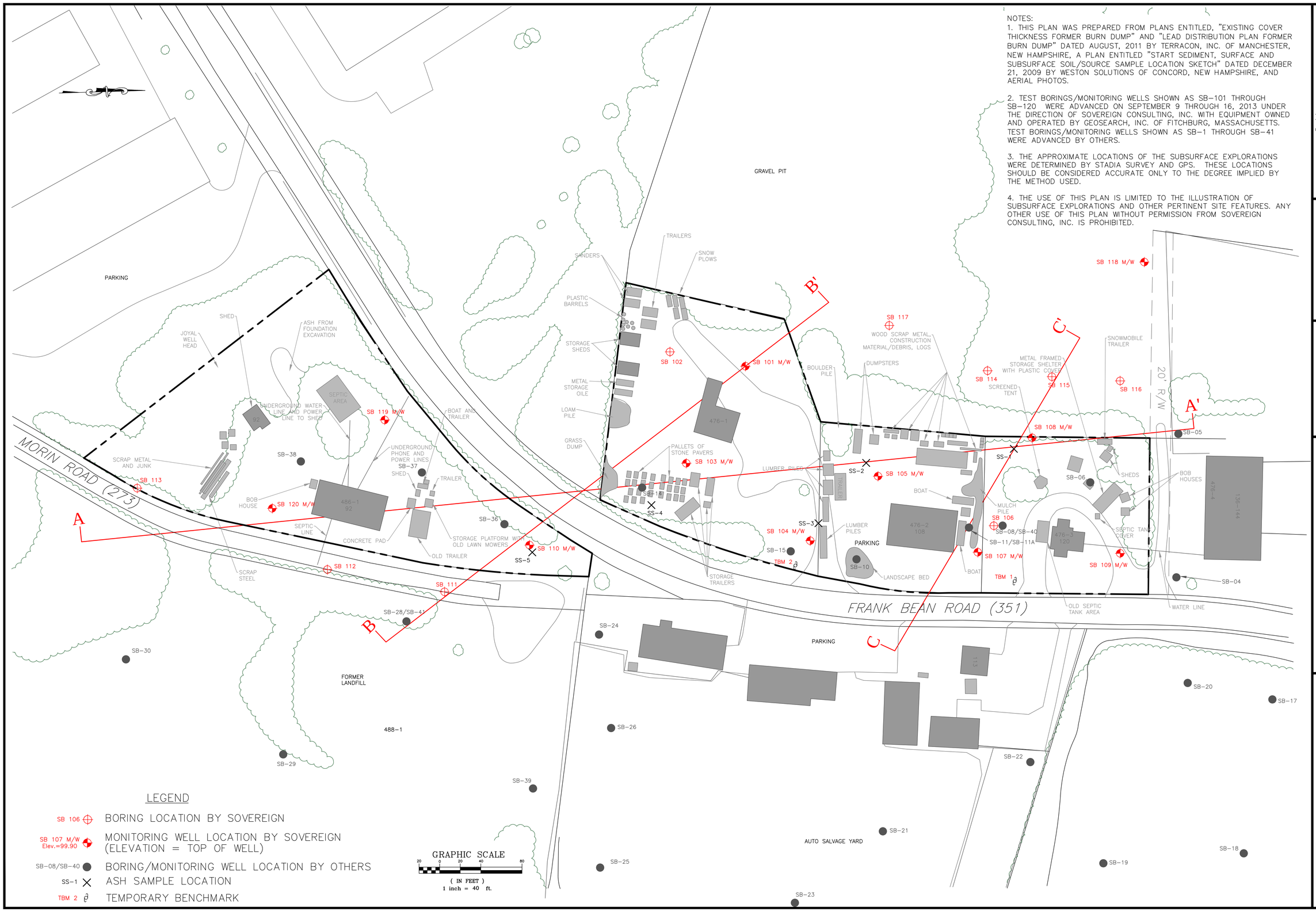

LEGEND

SB 106 ⊕	BORING LOCATION BY SOVEREIGN
SB 107 M/W Elev.=99.90	MONITORING WELL LOCATION BY SOVEREIGN (ELEVATION = TOP OF WELL)
SB-08/SB-40 ●	BORING/MONITORING WELL LOCATION BY OTHERS
SS-1 ×	ASH SAMPLE LOCATION
TBM 2	TEMPORARY BENCHMARK

No.	Revisions Description	Appd	Date

PREPARED FOR:
CITY OF LACONIA
45 BEACON STREET EAST
LACONIA, NEW HAMPSHIRE
03246

DATE: SEPTEMBER, 2013
SCALE: 1:40
DESIGNED BY: MRH
DRAWN BY: CGC
APPROVED BY: MRH
PROJECT NO: NH011

FIGURE 3
SITE FEATURES PLAN

FRANK BEAN ROAD
LACONIA, NEW HAMPSHIRE

Sovereign Consulting Inc.
7 HILLS AVENUE
CONCORD, NEW HAMPSHIRE 03301
TEL: (603) 856-8644

File: FRANKBEAN.dwg

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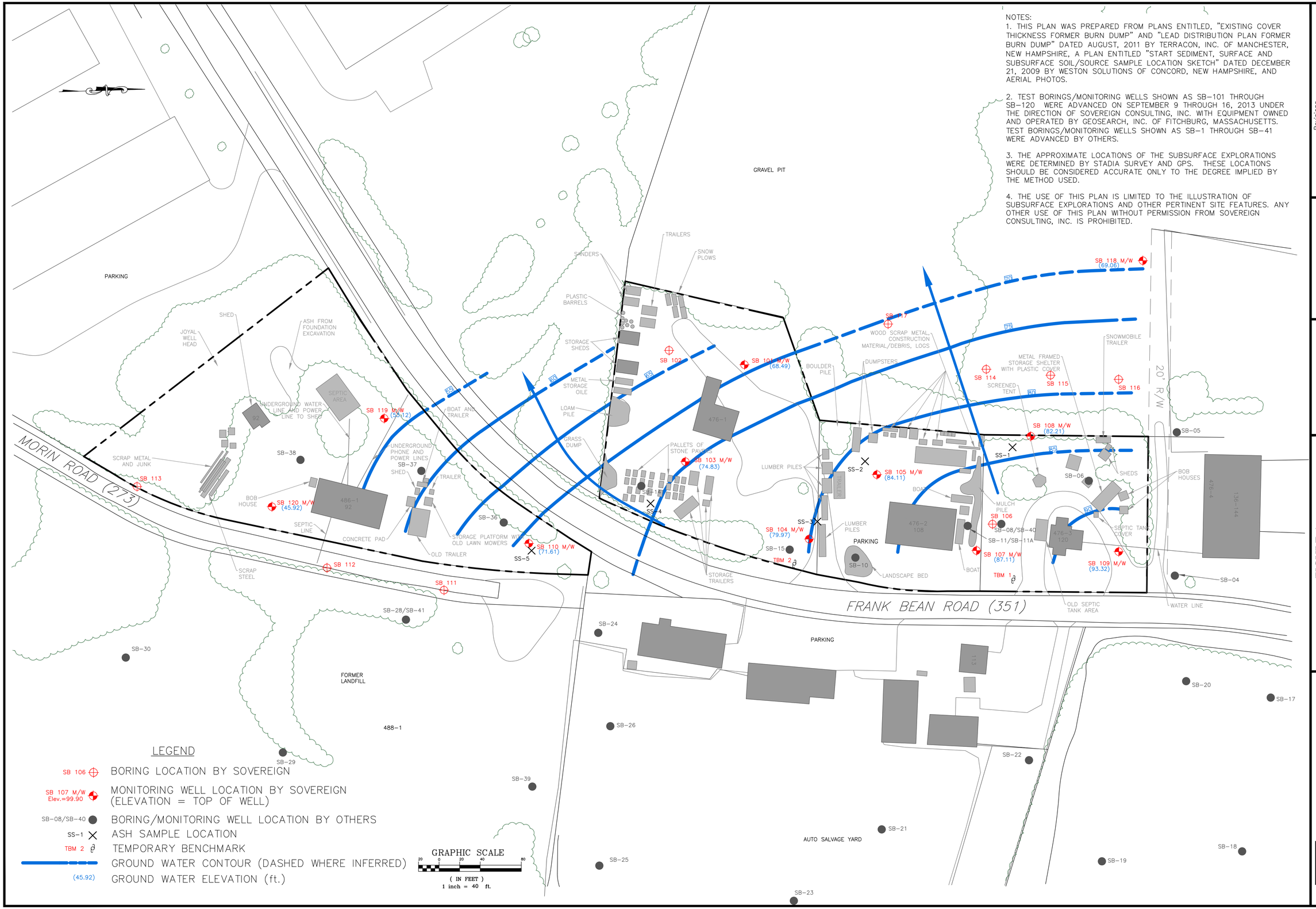

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FIGURE 4
GROUNDWATER CONTOUR PLAN
(OCTOBER 16 & 17, 2013)

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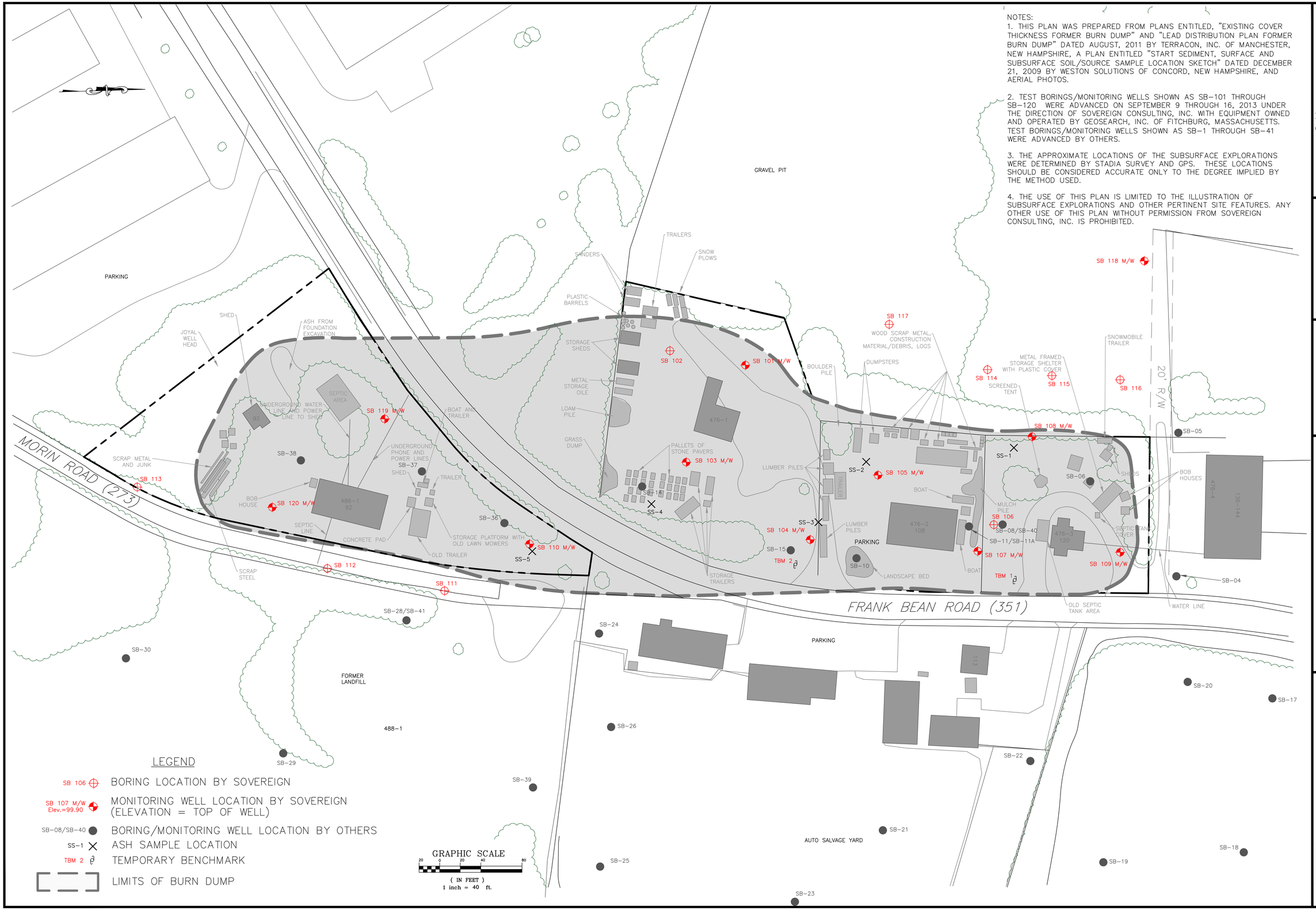

LEGEND

SB 106	BORING LOCATION BY SOVEREIGN
SB 107 M/W Elev.=99.90	MONITORING WELL LOCATION BY SOVEREIGN (ELEVATION = TOP OF WELL)
SB-08/SB-40	BORING/MONITORING WELL LOCATION BY OTHERS
SS-1	ASH SAMPLE LOCATION
TBM 2	TEMPORARY BENCHMARK
	LIMITS OF BURN DUMP

No.	Revisions Description	Appd	Date

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03246

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FIGURE 5
LIMITS OF BURN DUMP

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TEL: (603) 856-8644

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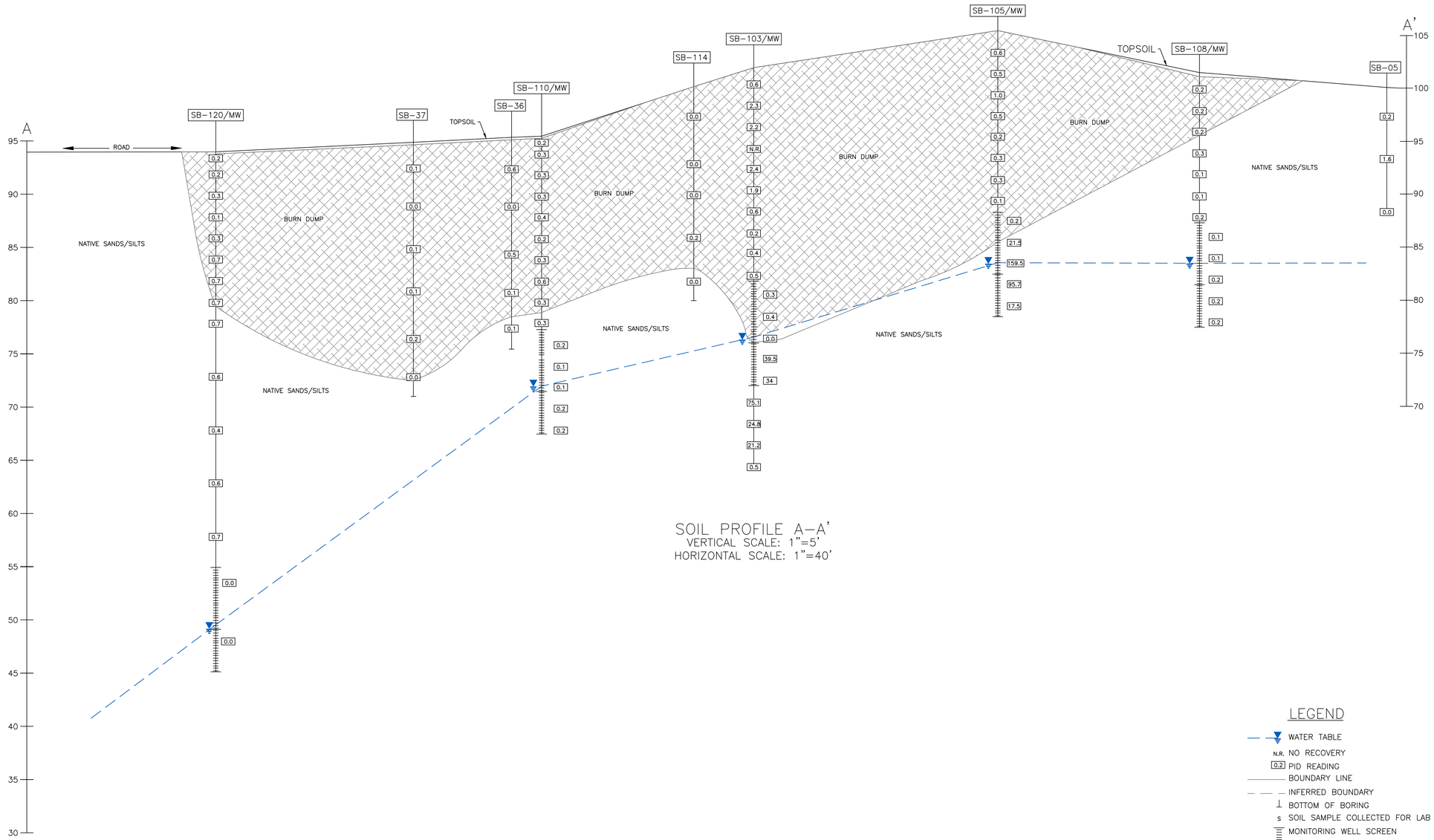

SOIL PROFILE A–A'
VERTICAL SCALE: 1"=5'
HORIZONTAL SCALE: 1"=40'

LEGEND

- WATER TABLE
- N.R. NO RECOVERY
- 0.2 PID READING
- BOUNDARY LINE
- INFERRED BOUNDARY
- BOTTOM OF BORING
- s SOIL SAMPLE COLLECTED FOR LAB ANALYSES
- MONITORING WELL SCREEN

No.	Description	Appd	Date

Revisions

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03246

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FIGURE 6
GEOLOGIC CROSS SECTION
A-A'

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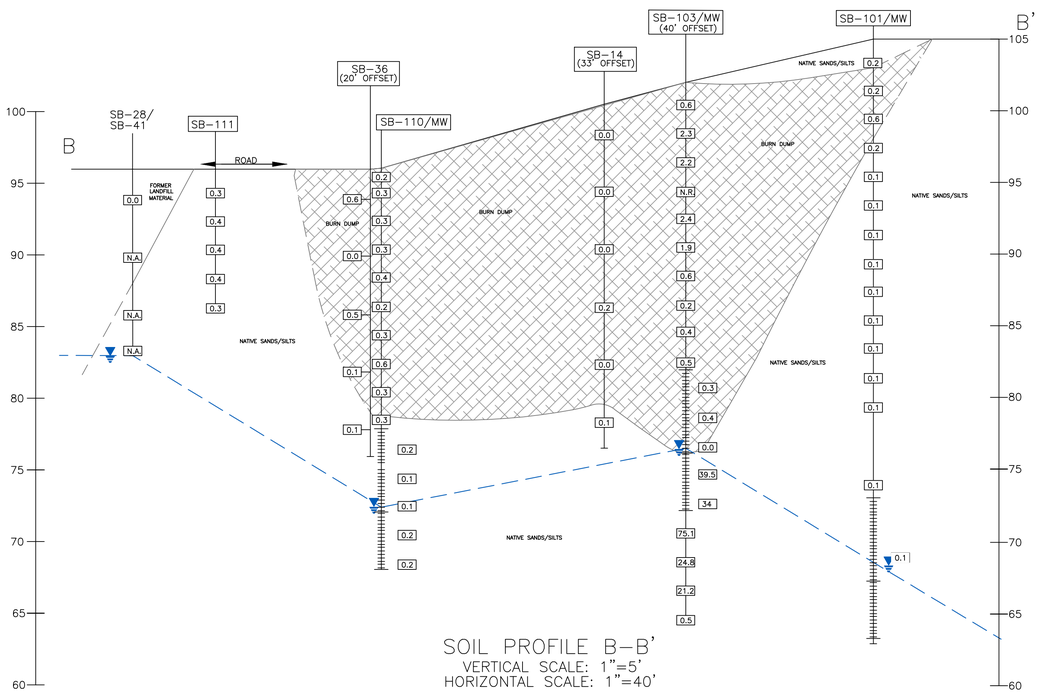
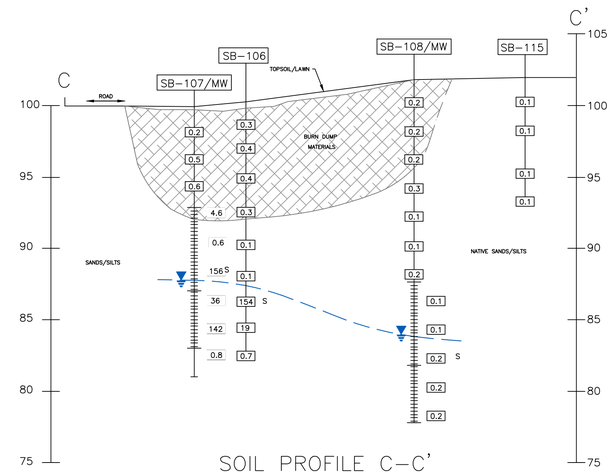


SOIL PROFILE B–B'
VERTICAL SCALE: 1"=5'
HORIZONTAL SCALE: 1"=40'



SOIL PROFILE C–C'
VERTICAL SCALE: 1"=5'
HORIZONTAL SCALE: 1"=40'

LEGEND

- WATER TABLE
- N.R. NO RECOVERY
- 0.2 PID READING
- BOUNDARY LINE
- INFERRED BOUNDARY
- BOTTOM OF BORING
- s SOIL SAMPLE COLLECTED FOR LAB ANALYSES
- MONITORING WELL SCREEN

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FIGURE 7
GEOLOGIC CROSS SECTIONS
B-B' & C-C'

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7 HILLS AVENUE
CONCORD, NEW HAMPSHIRE 03301
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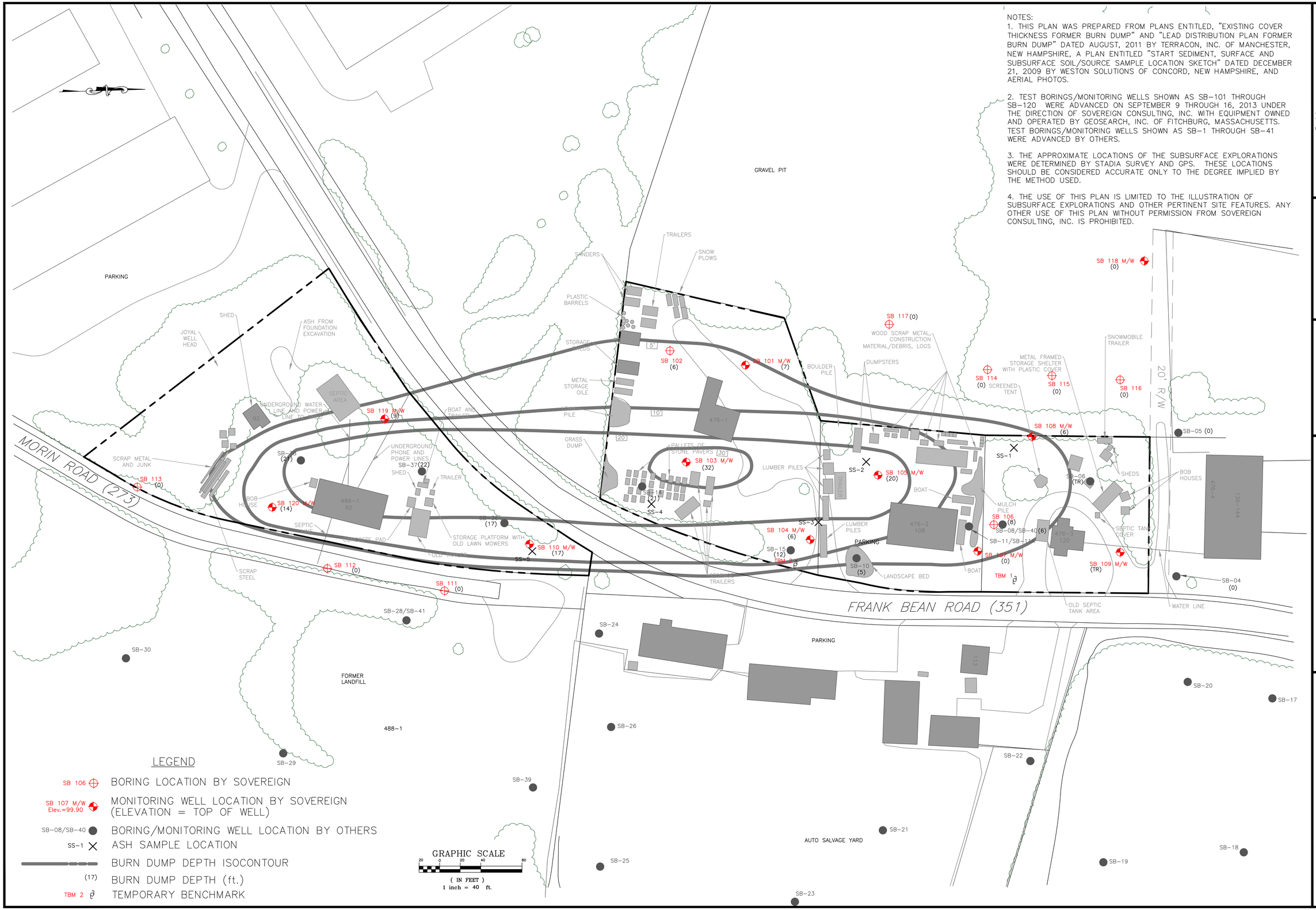

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FIGURE 8
BURN DUMP DEPTH
ISO-CONTOUR PLAN

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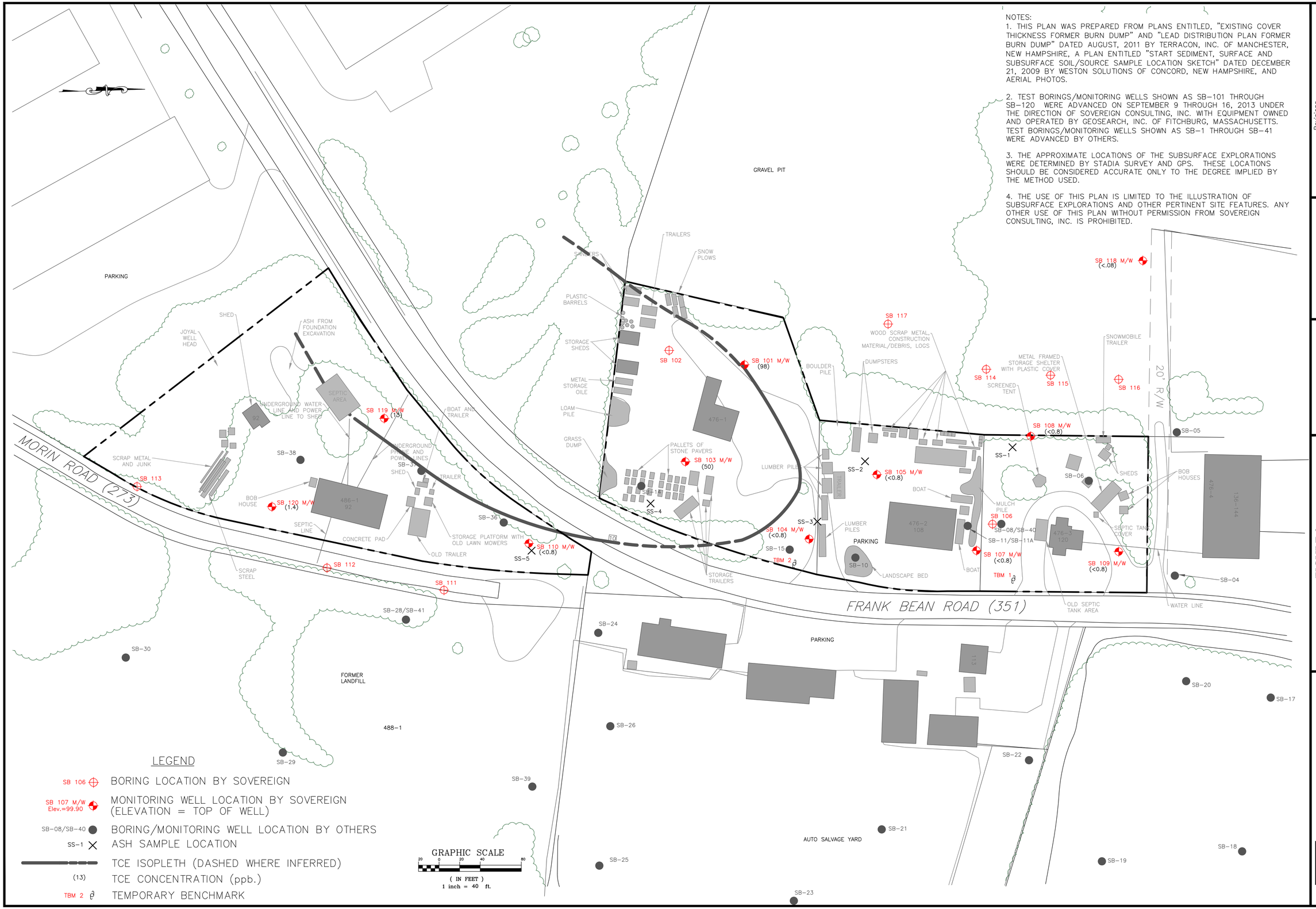

LEGEND

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SB-08/SB-40	BORING/MONITORING WELL LOCATION BY OTHERS
SS-1	ASH SAMPLE LOCATION
	TCE ISOPLETH (DASHED WHERE INFERRED)
(13)	TCE CONCENTRATION (ppb.)
TBM 2	TEMPORARY BENCHMARK

No.	Revisions Description	Appd	Date

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LACONIA, NEW HAMPSHIRE
03246

DATE: SEPTEMBER, 2013
SCALE: 1:40
DESIGNED BY: MRH
DRAWN BY: CGC
APPROVED BY: MRH
PROJECT NO: NH011

FIGURE 9
TCE ISOPLETH MAP
(OCTOBER 16 - 17, 2013)

FRANK BEAN ROAD
LACONIA, NEW HAMPSHIRE

Sovereign Consulting Inc.
7 HILLS AVENUE
CONCORD, NEW HAMPSHIRE 03301
TEL: (603) 856-8644

File: FRANKBEAN.dwg

Project No. NH011

TABLES

TABLE 1
PROPERTIES LOCATED WITHIN 1,000 FEET OF SITE
Former Burn Dump
Frank Bean Road
Laconia, New Hampshire
Sovereign Project No. NH011

Parcel Number	CAMA Number	Property Address	Mailing Address
474-52-2	474-52-2	137 Cotton Hill Rd.	Little Robert J & Charlene M 137 Cotton Hill Rd. Laconia, NH 03246
475-52-1	475-52-1	191 Cotton Hill Rd.	Whittier Argee & Medinaceli- Whittier Rosalinda S 191 Cotton Hill Rd. Laconia, NH 03246
475-52-18	475-52-18	276 Cotton Hill Rd.	Gilbert David J & Dallas C 276 Cotton Hill Rd. Laconia, NH 03246
475-52-19	475-52-19	211 Cotton Hill Rd.	Lessard Maureen B 2008 Trust Lessard Maureen B Trustee 211 Cotton Hill Rd. Laconia, NH 03246
465-52-2	465-52-2	179 Cotton Hill Rd.	Hancock Steven N & Holly L 179 Lower Cotton Hill Rd. Laconia, NH 03246
476-351-1	476-351-1	Frank Bean Rd.	Wiley Richard W. Jr. 27 Old Prescott Hill Rd. Laconia, NH 03246
476-351-2	476-351-2	108 Frank Bean Rd.	Dolphin Point LLC PO Box 6089 Laconia, NH 03247
476-351-3	476-351-3	120 Frank Bean Rd.	Paquin Alexander J III & Beverly A 120 Frank Bean Road Laconia, NH 03246
476-351-4	476-351-4	136 Frank Bean Rd.	GEI Holdings, LLC Address Unknown
476-351-5	476-351-5	89-113 Frank Bean Rd.	Reed Raymond R & William K 113 Frank Bean Rd. Laconia, NH 03246
477-147-2	477-147-2	432 Province Rd.	Gilbert Delphis R Trust Gilbert Delphis R Trustee 427 Province Rd. Laconia, NH 03246

TABLE 1
PROPERTIES LOCATED WITHIN 1,000 FEET OF SITE
Former Burn Dump
Frank Bean Road
Laconia, New Hampshire
Sovereign Project No. NH011

Parcel Number	CAMA Number	Property Address	Mailing Address
477-147-3	477-147-3	444 Province Rd.	Gilbert Delphis R Trust/Trustee & Gilbert Elizabeth O 427 Province Rd. Laconia, NH 03246
478-20-2	478-20-2	8 Old Prescott Hill Rd.	Brady Sullivan Lilac Valley LLC 670 N. Commercial St. Ste 303 Manchester, NH 03101
485-147-1	485-147-1	466 Province Rd.	Fay Merrill 5 Varney Point Rd. Gilford, NH 03249
485-147-2	485-147-2	468 Province Rd.	Winnipesaukee Skating Club Inc. Attn: Chuck Yaeger 468 Province Rd. Laconia, NH 03246
485-147-3	485-147-3	484-516 Province Rd.	Bartholomew Ventures Inc. 304 Cady Hill Rd. Stowe, VT 05672
485-147-4	485-147-4	477-505 Province Rd.	Jorgensen Realty LLC 24 Hillside Dr. Gilford, NH 03249
485-147-5	485-147-5	409-461 Province Rd.	Gilbert Elizabeth O Trust Gilbert Elizabeth O Trustee 427 Province Rd. Laconia, NH 03246
486-273-1	486-273-1	92 Morin Rd.	Joyal James M PO Box 293 Laconia, NH 03247
486-273-2	486-273-2	39 Morin Rd.	Young Kirk A & Valarie L 39 Old Morin Road Laconia, NH 03246
488-147-1	488-147-1	Province Rd.	Laconia City of Old Land Fill 45 Beacon Street East Laconia, NH 03246

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TABLE 2
SUMMARY OF GROUNDWATER FIELD MEASURMENTS
Former Burn Dump
Frank Bean Road
Laconia, NH
Sovereign Project No. NH011

Well ID	Sample Date	Depth to Water (ft)	Groundwater Elevation (ft)	pH	Conductivity (µS/cm)	Temp (°C)	DO (mg/L)	ORP (mV)
SB-101/MW	10/3/2013	36.29	68.72	6.23	1459	12.6	9.15	8.5
TOC	10/16/2013	36.52	68.49	6.57	1476	13.1	3.88	9.5
105.01								
SB-103/MW	10/2/2013	26.99	75.27	6.46	6215	15.7	0.45	82.3
TOC	10/16/2013	27.43	74.83	6.52	5351	13.1	2.85	58.5
102.26								
SB-104/MW	10/2/2013	20.38	80.21	6.34	434.2	15.7	1.63	76.2
TOC	10/17/2013	20.62	79.97	6.16	455	15.2	2.00	2.0
100.59								
SB-105/MW	10/1/2013	21.24	84.38	6.41	841	13.9	0.31	15.8
TOC	10/17/2013	21.51	84.11	6.38	854	13.5	0.48	54.7
105.62								
SB-107/MW	10/1/2013	12.39	87.51	5.98	610	16.2	0.65	53.9
TOC	10/17/2013	12.79	87.11	6.1	687	15.4	1.58	71.0
99.90								
SB-108/MW	10/1/2013	19.01	82.74	4.91	321	14.6	8.24	130.4
TOC	10/16/2013	19.54	82.21	5.56	338	12.4	13.80	47.0
101.75								
SB-109/MW	10/1/2013	7.30	93.28	6.33	228	15.5	0.98	89.3
TOC	10/16/2013	7.26	93.32	6.58	231	14.2	2.78	68
100.58								
SB-110/MW	10/2/2013	23.98	71.84	5.86	108	12.7	6.90	103
TOC	10/16/2013	24.21	71.61	6.14	110	12.1	12.55	44
95.82								
SB-118/MW	10/1/2013	33.82	69.30	6.8	284	15.2	5.74	43
TOC	10/17/2013	34.06	69.06	6.84	269	11.7	1.88	47
103.12								
SB-119/MW	10/3/2013	34.73	53.48	6.61	1754	12.3	7.48	74
TOC	10/16/2013	35.09	53.12	6.52	1870	11.7	8.41	42
88.21								

TABLE 2
SUMMARY OF GROUNDWATER FIELD MEASURMENTS
Former Burn Dump
Frank Bean Road
Laconia, NH
Sovereign Project No. NH011

Well ID	Sample Date	Depth to Water (ft)	Groundwater Elevation (ft)	pH	Conductivity (µS/cm)	Temp (°C)	DO (mg/L)	ORP (mV)
SB-120/MW	10/3/2013	45.14	48.98	3.29	166.2	10.7	2.46	89
TOC	10/16/2013	45.92	48.20	5.93	176	11	4.48	59
94.12								

Notes:
TOC - Top of Casing (feet)
µS/cm - microSiemens per centimeter
°C - degrees Centigrade
DO - dissolved oxygen
mg/L - milligrams per Liter
ORP - oxidation reduction potential
mV - millivolts

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TABLE 3
SOIL SAMPLING ANALYTICAL RESULTS - METALS
Former Burn Dump
Frank Bean Road
Laconia, New Hampshire
Sovereign Project No. NH011

			NHDES Soil Remediation Standards (SRS)												
			Antimony (mg/kg)	Arsenic (mg/kg)	Beryllium (mg/kg)	Cadmium (mg/kg)	Chromium (mg/kg)	Copper (mg/kg)	Lead (mg/kg)	Mercury (mg/kg)	Nickel (mg/kg)	Selenium (mg/kg)	Silver (mg/kg)	Thallium (mg/kg)	Zinc (mg/kg)
			9	11	1	33	1,000	NE	400	6	400	180	89	10	1,000
Sample Identification	**Depth**	**Sample Date**	**Laboratory Analytical results**												
SB-101	**4-6'**	9/9/2013	**52**	**68**	<0.8	**12**	**67**	**380**	**1,300**	**0.80**	**120**	**1**	**2**	<0.8	**1,600**
SB-102	**4-6'**	9/9/2013	**17**	**36**	<0.9	**15**	**250**	**1,400**	**2,600**	**3.8**	**230**	**2**	**5**	<0.9	**2,200**
SB-103	**28-30'**	9/9/2013	**5**	**23**	<0.9	**14**	**39**	**130**	**3,300**	<0.18	**22**	<2	<2	<0.9	**2,800**
SB-104/MW	**20-22'**	9/10/2013	**1**	**5**	<1	<1	**4**	**6**	**6**	<0.19	**3**	<1	<1	<1	**26**
SB-105/MW	**20-22'**	9/10/2013	<0.9	**4**	<0.9	<0.9	**6**	**13**	**13**	<0.18	**3**	<0.9	<0.9	<0.9	**3**
SB-106	**12-14'**	9/11/2013	<0.8	**5**	<0.8	<0.8	**4**	**4**	**4**	<0.16	**3**	<0.8	<0.8	<0.8	**20**
SB-107/MW	**10-12'**	9/11/2013	<0.9	**7**	<0.9	<0.9	**6**	**4**	**4**	<0.18	**4**	<0.9	<0.9	<0.9	**29**
SB-108/MW	**18-20'**	9/12/2013	<0.9	**2**	<0.9	<0.9	**4**	**5**	**2**	<0.18	**3**	<0.9	<0.9	<0.9	**19**
SB-109/MW	**8-10'**	9/12/2013	<0.8	**2**	<0.8	<0.8	**6**	**7**	**4**	<0.17	**5**	<0.8	<0.8	<0.8	**25**
SB-110/MW	**24-26'**	9/12/2013	<0.9	**3**	<0.9	<0.9	**4**	**4**	**4**	<0.18	**3**	<0.9	<0.9	<0.9	**23**
SB-118/MW	**50-52'**	9/16/2013	<0.7	**2**	<0.7	<0.7	**9**	**8**	**3**	<0.15	**7**	<0.7	<0.7	<0.7	**30**
SB-119/MW	**30-32'**	9/16/2013	<0.8	**1**	<0.8	<0.8	**4**	**4**	**2**	<0.16	**3**	<0.8	<0.8	<0.8	**36**
SB-120/MW	**45-47'**	9/16/2013	<0.9	**1**	<0.9	<0.9	**4**	**4**	**2**	<0.19	**3**	<0.9	<0.9	<0.9	**20**
			The data below summarizes analytical results of samples collected by Weston Solutions												
SB-06	**4-6'**	11/3/2008	BD	BD	BD	BD	BD	BD	BD	BD	BD	BD	BD	BD	BD

TABLE 3
SOIL SAMPLING ANALYTICAL RESULTS - METALS
Former Burn Dump
Frank Bean Road
Laconia, New Hampshire
Sovereign Project No. NH011

			NHDES Soil Remediation Standards (SRS)												
			Antimony (mg/kg)	Arsenic (mg/kg)	Beryllium (mg/kg)	Cadmium (mg/kg)	Chromium (mg/kg)	Copper (mg/kg)	Lead (mg/kg)	Mercury (mg/kg)	Nickel (mg/kg)	Selenium (mg/kg)	Silver (mg/kg)	Thallium (mg/kg)	Zinc (mg/kg)
			9	11	1	33	1,000	NE	400	6	400	180	89	10	1,000
Sample Identification	**Depth**	**Sample Date**	**Laboratory Analytical results**												
SB-08	**4-6'**	11/3/2008	BD	**5.5**	BD	BD	BD	**24**	**298**	BD	**12.7**	BD	BD	BD	**249**
SB-`10	**4-6'**	11/4/2008	BD	**3.7**	BD	**1.7**	BD	**30**	**346**	BD	BD	BD	BD	BD	**328**
SB-11A	**16-18'**	11/4/2008	BD	**12.9**	BD	**6.5**	**51.5**	**193**	**776**	BD	**55.4**	BD	BD	BD	**1630**
SB-14	**5.5-7.5'**	11/6/2008	**14.1**	**13.7**	BD	**7.3**	**153**	**3230**	**1870**	**0.33**	**397**	BD	BD	BD	**4900**
SB-15	**9.5-11.5'**	11/6/2008	**6.3**	**13.7**	BD	**7**	**84.4**	**470**	**1230**	**0.31**	**38.7**	BD	BD	BD	**1700**
SB-36	**10-12'**	11/6/2008	BD	**10.4**	**0.5**	**2.5**	**28.7**	**211**	**1180**	**0.43**	**36.7**	BD	BD	BD	**588**
SB-37	**14.5-16.5'**	11/5/2008	BD	**29.7**	BD	**9.2**	**33.5**	**606**	**959**	**0.26**	**48.7**	BD	BD	BD	**596**
SB-38	**5.5-7.5'**	11/5/2008	BD	**6**	**BD**	**2.9**	**23.8**	**120**	**1190**	**0.088**	**BD**	BD	BD	BD	**799**
SB-40	**4-5'**	11/3/2008	BD	**4.5**	BD	BD	BD	**26.6**	**193**	**0.49**	BD	BD	BD	BD	**169**

Notes:
NE - not established.
-- Indicates analyte was not sampled.
Bold - indicates value exceeds laboratory method detection limits
Bold and Shaded - indicates value exceeds NHDES SRS

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TABLE 4
SOIL SAMPLING ANALYTICAL RESULTS - PAHs
Former Burn Dump
Frank Bean Road
Laconia, New Hampshire
Sovereign Project No. NH011

			NHDES Soil Remediation Standards (SRS)																	
			Acenaphthene (mg/kg)	Acenaphthylene (mg/kg)	Anthracene (mg/kg)	Benzo(a)-anthracene (mg/kg)	Benzo(a)-pyrene (mg/kg)	Benzo(b)-fluoranthene (mg/kg)	Benzo(g,h,i)-perylene (mg/kg)	Benzo(k)-fluoranthene (mg/kg)	Chrysene (mg/kg)	Dibenz(a,h)-anthracene (mg/kg)	Fluoranthene (mg/kg)	Fluorene (mg/kg)	Indeno(1,2,3-cd)-pyrene (mg/kg)	1-Methyl-naphthalene (mg/kg)	2-Methyl-naphthalene (mg/kg)	Naphthalene (mg/kg)	Phen-anthrene (mg/kg)	Pyrene (mg/kg)
			340	490	1,000	1	0.7	1	960	12	120	0.7	960	77	1	NE	96	5	960	720
Sample Identification	Depth	Sample Date	Laboratory Analytical results																	
SB-101	4-6'	9/9/2013	<0.40	<0.40	<0.40	0.88	0.81	1.3	<0.40	0.57	0.97	0.11	2.1	<0.40	0.28	<0.40	<0.40	<0.40	1.5	1.7
SB-102	4-6'	9/9/2013	<0.80	<0.80	<0.80	1.2	1.8	2.4	<0.80	0.80	1.3	0.26	2.9	<0.80	0.80	<0.80	<0.80	<0.80	1.6	2.4
SB-103	28-30'	9/9/2013	<1.2	<1.2	<1.2	<0.30	<0.60	<0.30	<1.2	<1.2	<1.2	<0.30	<1.2	<1.2	<0.30	<1.2	<1.2	<1.2	<1.2	<1.2
SB-104/MW	20-22'	9/10/2013	<0.40	<0.40	<0.40	<0.10	<0.20	<0.10	<0.40	<0.40	<0.40	<0.10	<0.40	<0.40	<0.10	<0.40	<0.40	<0.40	<0.40	<0.40
SB-105/MW	20-22'	9/10/2013	<1.2	<1.2	<1.2	<0.30	<0.60	<0.30	<1.2	<1.2	<1.2	<0.30	<1.2	<1.2	<0.30	<1.2	<1.2	<1.2	<1.2	<1.2
SB-106	12-14'	9/11/2013	<1.2	<1.2	<1.2	<0.30	<0.60	<0.30	<1.2	<1.2	<1.2	<0.30	<1.2	<1.2	<0.30	1.5	<1.2	<1.2	<1.2	<1.2
SB-107/MW	10-12'	9/11/2013	<1.2	<1.2	<1.2	<0.30	<0.60	<0.30	<1.2	<1.2	<1.2	<0.30	<1.2	<1.2	<0.30	2.8	<1.2	<1.2	1.7	<1.2
SB-108/MW	18-20'	9/12/2013	<0.40	<0.40	<0.40	<0.10	<0.20	<0.10	<0.40	<0.40	<0.40	<0.10	<0.40	<0.40	<0.10	<0.40	<0.40	<0.40	<0.40	<0.40
SB-109/MW	8-10'	9/12/2013	<0.40	<0.40	<0.40	<0.10	<0.20	<0.10	<0.40	<0.40	<0.40	<0.10	<0.40	<0.40	<0.10	<0.40	<0.40	<0.40	<0.40	<0.40
SB-110/MW	24-26'	9/12/2013	<0.40	<0.40	<0.40	<0.10	<0.20	<0.10	<0.40	<0.40	<0.40	<0.10	<0.40	<0.40	<0.10	<0.40	<0.40	<0.40	<0.40	<0.40
SB-118/MW	50-52'	9/16/2013	<0.40	<0.40	<0.40	<0.10	<0.20	<0.10	<0.40	<0.40	<0.40	<0.10	<0.40	<0.40	<0.10	<0.40	<0.40	<0.40	<0.40	<0.40
SB-119/MW	30-32'	9/16/2013	<0.40	<0.40	<0.40	<0.10	<0.20	<0.10	<0.40	<0.40	<0.40	<0.10	<0.40	<0.40	<0.10	<0.40	<0.40	<0.40	<0.40	<0.40
SB-120/MW	45-47'	9/16/2013	<0.40	<0.40	<0.40	<0.10	<0.20	<0.10	<0.40	<0.40	<0.40	<0.10	<0.40	<0.40	<0.10	<0.40	<0.40	<0.40	<0.40	<0.40
SS-1		9/30/2013	<0.40	<0.40	<0.40	0.22	0.42	0.61	<0.40	<0.40	<0.40	<0.10	<0.40	<0.40	0.22	<0.40	<0.40	<0.40	<0.40	<0.40
SS-2		9/30/2013	<0.40	0.64	<0.40	1.7	1.6	2.6	0.59	1.8	2.4	0.24	2.9	<0.40	0.59	<0.40	<0.40	<0.40	1.6	3.3
SS-3		9/30/2013	<0.40	<0.40	<0.40	0.12	<0.40	0.19	<0.40	<0.40	<0.40	<0.10	<0.40	<0.40	<0.40	<0.40	<0.40	<0.40	<0.40	<0.40
SS-4		9/30/2013	<0.40	<0.40	0.55	1.0	1.1	1.9	<0.40	0.66	1.2	0.12	2.7	<0.40	0.35	<0.40	<0.40	<0.40	2.6	2.1
SS-5		9/30/2013	<0.40	<0.40	<0.40	0.36	0.32	0.57	<0.40	<0.40	0.58	<0.10	0.48	<0.40	0.15	<0.40	<0.40	<0.40	0.42	0.51
			The data below summarizes analytical results of samples collected by Weston Solutions																	
SB-06	4-6'	11/3/2008	BD	BD	BD	0.23	0.26	0.27	BD	0.31	0.25	BD	0.53	BD	0.22	BD	BD	BD	0.27	0.42
SB-08	4-6'	11/3/2008	BD	BD	BD	BD	BD	BD	BD	BD	BD	BD	BD	BD	BD	BD	BD	BD	BD	BD
SB-10	4-6'	11/4/2008	BD	BD	BD	BD	BD	BD	BD	BD	BD	BD	BD	BD	BD	BD	BD	BD	BD	BD

TABLE 4
SOIL SAMPLING ANALYTICAL RESULTS - PAHs
Former Burn Dump
Frank Bean Road
Laconia, New Hampshire
Sovereign Project No. NH011

			NHDES Soil Remediation Standards (SRS)																	
			Acenaphthene (mg/kg)	Acenaphthylene (mg/kg)	Anthracene (mg/kg)	Benzo(a)-anthracene (mg/kg)	Benzo(a)-pyrene (mg/kg)	Benzo(b)-fluoranthene (mg/kg)	Benzo(g,h,i)-perylene (mg/kg)	Benzo(k)-fluoranthene (mg/kg)	Chrysene (mg/kg)	Dibenz(a,h)-anthracene (mg/kg)	Fluoranthene (mg/kg)	Fluorene (mg/kg)	Indeno(1,2,3-cd)-pyrene (mg/kg)	1-Methyl-naphthalene (mg/kg)	2-Methyl-naphthalene (mg/kg)	Naphthalene (mg/kg)	Phen-anthrene (mg/kg)	Pyrene (mg/kg)
			340	490	1,000	1	0.7	1	960	12	120	0.7	960	77	1	NE	96	5	960	720
Sample Identification	Depth	Sample Date	Laboratory Analytical results																	
SB-11A	16-18'	11/4/2008	BD	BD	BD	BD	**0.26**	**0.22**	**0.19**	**0.19**	**0.25**	BD	**0.38**	BD	**0.2**	BD	BD	BD	**0.32**	**0.32**
SB-14	5.5-7.5'	11/6/2008	**0.91**	BD	**3.5**	**6.4**	**5.1**	**6.6**	**1.4**	**4.7**	**6.8**	**0.68**	**17**	**1.5**	**2.2**	BD	**0.33**	**0.58**	**16**	**12**
SB-15	9.5-11.5'	11/6/2008	**0.44**	BD	**1.1**	**2.3**	**2.2**	**4.4**	**1.2**	**4.2**	**2.5**	**0.32**	**5.2**	**0.44**	**1.2**	BD	BD	**0.24**	**4.4**	**6.7**
SB-36	10-12'	11/6/2008	BD	**0.34**	**0.18**	**1.2**	**1.1**	**0.74**	**0.43**	**0.75**	**1.6**	**0.23**	**1.2**	BD	**0.51**	BD	BD	BD	**0.61**	**2.4**
SB-37	14.5-16.5'	11/5/2008	BD	BD	BD	BD	BD	BD	BD	BD	BD	BD	BD	BD	BD	BD	BD	BD	BD	BD
SB-38	5.5-7.5'	11/5/2008	BD	**0.48**	**0.29**	**0.91**	**1.2**	**1.4**	**0.65**	**1.2**	**1.2**	**0.32**	**1.7**	BD	**0.81**	BD	BD	BD	**0.9**	**1.8**
SB-40	4-5'	11/3/2008	BD	BD	BD	BD	BD	BD	BD	BD	BD	BD	BD	BD	BD	BD	BD	BD	BD	BD

Notes:
NE - not established.
-- Indicates analyte was not sampled.
Bold - indicates value exceeds laboratory method detection limits
Bold and Shaded - indicates value exceeds NHDES SRS

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TABLE 5
SOIL SAMPLING ANALYTICAL RESULTS - VOCs
Former Burn Dump
Frank Bean Road
Laconia, New Hampshire
Sovereign Project No. NH011

			NHDES Soil Remediation Standards (SRS)																			
			Benzene (mg/kg)	Toluene (mg/kg)	Ethyl-benzene (mg/kg)	Total Xylenes (mg/kg)	MTBE (mg/kg)	Naphthalene (mg/kg)	Trichloro-ethlyene (mg/kg)	Tetra-chloroethylene (mg/kg)	Monochloro-benzene (mg/kg)	Vinyl Chloride (mg/kg)	1,2-Dichloro-benzene (mg/kg)	1,4-Dichloro-benzene (mg/kg)	n-Butylbenzene (mg/kg)	sec-Butylbenzene (mg/kg)	tert-Butylbenzene (mg/kg)	p-Isopropyl-toluene (mg/kg)	n-Propyl-benzene (mg/kg)	1,2,4 Trimethyl benzene (mg/kg)	1,3,5 Trimethyl benzene (mg/kg)	Isopropyl-benzene (mg/kg)
			0.3	100	140	500	0.2	5	0.8	2	6	1	88	7	110	130	100	3,400	85	130	96	330
Sample Identification	**Depth**	**Sample Date**	Laboratory Analytical results																			
SB-101	**4-6'**	9/9/2013	<0.03	<0.08	<0.08	<0.24	<0.03	<0.16	**0.95**	**0.53**	<0.08	<0.31	<0.08	<0.08	<0.08	<0.08	<0.08	<0.08	<0.08	<0.08	<0.08	<0.08
SB-102	**4-6'**	9/9/2013	<0.07	<0.18	<0.18	<0.54	<0.07	<0.36	**0.63**	**10**	<0.18	<0.72	<0.18	<0.18	<0.18	<0.18	<0.18	<0.18	<0.18	<0.18	<0.18	<0.18
SB-103	**28-30'**	9/9/2013	<0.05	<0.13	<0.13	<0.39	<0.05	<0.26	**0.44**	<0.13	<0.13	<0.53	**0.57**	<0.13	<0.13	**0.13**	<0.13	<0.13	<0.13	<0.13	<0.13	<0.13
SB-104/MW	**20-22'**	9/10/2013	<0.03	<0.08	<0.08	<0.23	<0.03	<0.15	<0.03	<0.08	<0.08	<0.31	<0.08	<0.08	<0.08	<0.08	<0.08	<0.08	<0.08	<0.08	<0.08	<0.08
SB-105/MW	**20-22'**	9/10/2013	<0.05	<0.14	<0.14	<0.41	<0.05	<0.27	<0.05	<0.14	<0.14	<0.55	**0.66**	<0.14	**0.75**	**0.60**	**0.17**	**0.15**	**0.54**	**0.32**	**0.19**	**0.29**
SB-106	**12-14'**	9/11/2013	<0.06	<0.15	<0.15	<0.45	<0.06	<0.30	<0.06	<0.15	<0.15	<0.60	<0.15	<0.15	**0.50**	**0.43**	<0.15	**0.72**	**0.20**	<0.15	<0.15	<0.15
SB-107/MW	**10-12'**	9/11/2013	<0.06	<0.15	<0.15	<0.44	<0.06	<0.29	<0.06	<0.15	<0.15	<0.59	<0.15	<0.15	**0.84**	**0.52**	<0.15	**0.90**	**0.43**	<0.15	<0.15	<0.15
SB-108/MW	**18-20'**	9/12/2013	<0.03	<0.07	<0.07	<0.21	<0.03	<0.14	<0.03	<0.07	<0.07	<0.29	<0.07	<0.07	<0.07	<0.07	<0.07	<0.07	<0.07	<0.07	<0.07	<0.07
SB-109/MW	**8-10'**	9/12/2013	<0.02	<0.06	<0.06	<0.18	<0.02	<0.12	<0.02	<0.06	<0.06	<0.25	<0.06	<0.06	<0.06	<0.06	<0.06	<0.06	<0.06	<0.06	<0.06	<0.06
SB-110/MW	**24-26'**	9/12/2013	<0.03	<0.08	<0.08	<0.23	<0.03	<0.15	<0.03	<0.08	<0.08	<0.30	<0.08	<0.08	<0.08	<0.08	<0.08	<0.08	<0.08	<0.08	<0.08	<0.08
SB-118/MW	**50-52'**	9/16/2013	<0.02	<0.06	<0.06	<0.18	<0.02	<0.12	<0.02	<0.06	<0.06	<0.24	<0.06	<0.06	<0.06	<0.06	<0.06	<0.06	<0.06	<0.06	<0.06	<0.06
SB-119/MW	**30-32'**	9/16/2013	<0.03	<0.07	<0.07	<0.22	<0.03	<0.15	<0.03	<0.07	<0.07	<0.30	<0.07	<0.07	<0.07	<0.07	<0.07	<0.07	<0.07	<0.07	<0.07	<0.07
SB-120/MW	**45-47'**	9/16/2013	<0.03	<0.07	<0.07	<0.20	<0.03	<0.13	<0.03	<0.07	<0.07	<0.27	<0.07	<0.07	<0.07	<0.07	<0.07	<0.07	<0.07	<0.07	<0.07	<0.07
			The data below summarizes analytical results of samples collected by Weston Solutions																			
SB-06	**4-6'**	11/3/2008	BD	BD	BD	BD	BD	BD	BD	BD	BD	BD	BD	BD	BD	BD	BD	BD	BD	BD	BD	BD
SB-08	**4-6'**	11/3/2008	**0.019**	BD	BD	BD	BD	BD	**0.031**	BD	BD	BD	BD	BD	BD	BD	BD	BD	BD	BD	BD	BD
SB-10	**4-6'**	11/4/2008	**0.0059**	BD	BD	BD	BD	BD	**0.004**	**0.009**	BD	BD	BD	BD	BD	BD	BD	BD	BD	BD	BD	BD
SB-11A	**16-18'**	11/4/2008	**0.038**	**0.02**	BD	BD	BD	BD	**0.014**	BD	BD	BD	BD	BD	BD	BD	BD	BD	BD	BD	BD	BD
SB-14	**5.5-7.5'**	11/6/2008	BD	BD	BD	BD	BD	BD	**0.01**	BD	BD	BD	BD	BD	BD	BD	BD	BD	BD	BD	BD	BD
SB-15	**9.5-11.5'**	11/6/2008	BD	BD	BD	BD	BD	BD	**21**	**0.15**	BD	BD	BD	BD	BD	BD	BD	BD	BD	BD	BD	BD
SB-36	**10-12'**	11/5/2008	**0.032**	**0.0099**	BD	BD	BD	BD	**0.34**	**0.15**	BD	BD	BD	BD	BD	BD	BD	BD	BD	BD	BD	BD
SB-37	**14.5-16.5'**	11/5/2008	**0.005**	BD	BD	BD	BD	BD	BD	**0.015**	BD	BD	BD	BD	BD	BD	BD	BD	BD	BD	BD	BD
SB-38	**5.5-7.5'**	11/5/2008	BD	BD	BD	BD	BD	BD	**0.0055**	BD	BD	BD	BD	BD	BD	BD	BD	BD	BD	BD	BD	BD
SB-40	**4-5'**	11/3/2008	**0.016**	BD	BD	BD	BD	BD	**0.023**	BD	BD	BD	BD	BD	BD	BD	BD	BD	BD	BD	BD	BD

Notes:
NE - not established.
MTBE - methyl tert-butyl ether.
-- Indicates analyte was not sampled.
Bold - indicates value exceeds laboratory method detection limits
Bold and Shaded - indicates value exceeds NHDES SRS

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TABLE 6
GROUNDWATER SAMPLING ANALYTICAL RESULTS - PAHs
Former Burn Dump
Frank Bean Road
Laconia, New Hampshire
Sovereign Project No. NH011

		NHDES Ambient Groundwater Qualtiy Standards (AGQS)																	
		Acenaphthene (µg/L)	Acenaphthylene (µg/L)	Anthracene (µg/L)	Benzo(a)-anthracene (µg/L)	Benzo(a)-pyrene (µg/L)	Benzo(b)-fluoranthene (µg/L)	Benzo(g,h,i)-perylene (µg/L)	Benzo(k)-fluoranthene (µg/L)	Chrysene (µg/L)	Dibenz(a,h)-anthracene (µg/L)	Fluoranthene (µg/L)	Fluorene (µg/L)	Indeno(1,2,3-cd)-pyrene (µg/L)	1-Methyl-naphthalene (µg/L)	2-Methyl-naphthalene (µg/L)	Naphthalene (µg/L)	Phen-anthrene (µg/L)	Pyrene (µg/L)
		420	420	2,100	0.1	0.2	0.1	210	0.5	5	0.1	280	280	0.1	NE	280	20	210	210
Sample Identification	**Sample Date**	**Laboratory Analytical results**																	
SB-101/MW	10/3/2013	<0.50	<0.50	<0.50	**0.18**	<0.20	<0.10	<0.50	<0.50	<0.50	<0.10	<0.50	<0.50	<0.10	<0.50	<0.50	<0.50	<0.50	<0.50
	10/17/2013	<0.53	<0.53	<0.53	*<0.11*	*<0.32*	*<0.53*	<0.53	*<0.63*	<0.53	*<0.21*	<0.53	<0.53	*<0.52*	<0.52	<0.52	<0.52	<0.52	<0.52
SB-103/MW	10/2/2013	<0.50	<0.50	<0.50	<0.10	<0.20	<0.10	<0.50	<0.50	<0.50	<0.10	**<0.50**	<0.50	<0.10	<0.50	<0.50	<0.50	<0.50	**<0.50**
	10/16/2013	**3.1**	<2.7	<2.7	*<0.54*	*<2.2*	**3.8**	<2.7	<3.2	<2.7	*<0.54*	**6.1**	<2.7	<2.7	<2.7	<2.7	<2.7	<2.7	**8.1**
SB-104/MW	10/2/2013	<0.50	<0.50	<0.50	**0.15**	<0.20	<0.10	<0.50	<0.50	<0.50	<0.10	<0.50	<0.50	<0.10	<0.50	<0.50	<0.50	<0.50	<0.50
	10/17/2013	<0.50	<0.50	<0.50	**0.12**	*<0.30*	*<0.50*	<0.60	*<0.60*	<0.50	*<0.20*	<0.50	<0.50	*<0.50*	<0.50	<0.50	<0.50	<0.50	<0.50
SB-105/MW	10/1/2013	<0.50	<0.50	<0.50	<0.10	<0.20	<0.10	<0.50	*<0.60*	<0.50	<0.10	<0.50	**1.1**	*<0.50*	**11**	<0.50	**2.0**	**1.1**	<0.50
	10/17/2013	<0.50	<0.50	<0.50	<0.10	*<0.30*	*<0.50*	<0.50	*<0.60*	<0.50	*<0.20*	<0.50	**0.52**	*<0.50*	**4.6**	<0.50	**0.89**	**0.77**	<0.50
SB-107/MW	10/1/2013	**0.57**	**<0.50**	<0.50	<0.10	<0.20	*<0.50*	<0.50	<0.50	<0.50	<0.10	<0.50	**1.6**	<0.10	**19**	<0.50	**13**	**1.9**	<0.50
	10/17/2013	<0.51	**2.4**	<0.51	<0.10	*<0.30*	*<0.51*	<0.51	*<0.61*	<0.51	*<0.20*	<0.51	**1.7**	*<0.51*	**21**	<0.51	**11**	**2.2**	<0.51
SB-108/MW	10/1/2013	<0.50	<0.50	<0.50	**0.12**	<0.20	<0.10	<0.50	<0.50	<0.50	<0.10	<0.50	<0.50	<0.10	<0.50	<0.50	<0.50	<0.50	<0.50
	10/16/2013	<0.51	<0.51	<0.51	**0.12**	*<0.41*	*<0.51*	<0.51	*<0.62*	<0.51	<0.10	<0.51	<0.51	*<0.51*	<0.51	<0.51	<0.51	<0.51	<0.51
SB-109/MW	10/1/2013	<0.50	<0.50	<0.50	**0.30**	<0.20	**0.11**	<0.50	<0.50	<0.50	<0.10	<0.50	<0.50	<0.10	<0.50	<0.50	<0.50	<0.50	<0.50
	10/16/2013	<0.50	<0.50	<0.50	**0.20**	*<0.40*	*<0.50*	<0.50	*<0.60*	<0.50	<0.10	<0.50	<0.50	*<0.50*	<0.50	<0.50	<0.50	<0.50	<0.50
SB-110/MW	10/2/2013	<0.50	<0.50	<0.50	**0.15**	<0.30	<0.10	<0.50	<0.50	<0.50	<0.10	<0.50	<0.50	<0.10	<0.50	<0.50	<0.50	<0.50	<0.50
	10/16/2013	<0.50	<0.50	<0.50	**0.19**	*<0.40*	*<0.50*	<0.50	*<0.60*	<0.50	<0.10	<0.50	<0.50	*<0.50*	<0.50	<0.50	<0.50	<0.50	<0.50
SB-118/MW	10/1/2013	<0.50	<0.50	<0.50	**0.13**	<0.20	<0.10	<0.50	<0.50	<0.50	<0.10	<0.50	<0.50	<0.10	<0.50	<0.50	<0.50	<0.50	<0.50
	10/17/2013	<0.51	<0.51	<0.51	**0.41**	*<0.31*	*<0.51*	<0.51	*<0.61*	**0.52**	*<0.20*	<0.51	<0.51	*<0.51*	<0.51	<0.51	<0.51	<0.51	<0.51
SB-119/MW	10/3/2013	<0.50	<0.50	<0.50	**0.33**	<0.20	**0.14**	<0.50	<0.50	<0.50	<0.10	<0.50	<0.50	<0.10	<0.50	<0.50	<0.50	<0.50	<0.50
	10/16/2013	<0.50	<0.50	<0.50	**0.29**	*<0.40*	*<0.50*	<0.50	*<0.60*	<0.50	<0.10	<0.50	<0.50	*<0.50*	<0.50	<0.50	<0.50	<0.50	<0.50
SB-120/MW	10/3/2013	<0.50	<0.50	<0.50	**0.17**	<0.20	<0.10	<0.50	<0.50	<0.50	<0.10	<0.50	<0.50	<0.10	<0.50	<0.50	<0.50	<0.50	<0.50
	10/16/2013	<0.51	<0.51	<0.51	**0.15**	*<0.40*	*<0.51*	<0.51	*<0.61*	<0.51	<0.10	<0.51	<0.51	*<0.51*	<0.51	<0.51	<0.51	<0.51	<0.51

Notes:
NE - not established.
-- Indicates analyte was not sampled.
Bold - indicates value exceeds laboratory method detection limits
Bold and Shaded - indicates value exceeds NHDES AGQS
Italics - indicated laboratory method detection limits exceeds AGQS

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TABLE 7
GROUNDWATER SAMPLING ANALYTICAL RESULTS - METALS
Former Burn Dump
Frank Bean Road
Laconia, New Hampshire
Sovereign Project No. NH011

		NHDES Ambient Groundwater Qualtiy Standards (AGQS)												
		Antimony (µg/L)	Arsenic (µg/L)	Beryllium (µg/L)	Cadmium (µg/L)	Chromium (µg/L)	Copper (µg/L)	Lead (µg/L)	Mercury (µg/L)	Nickel (µg/L)	Selenium (µg/L)	Silver (µg/L)	Thallium (µg/L)	Zinc (µg/L)
		6	10	4	5	100	1,300	15	2	100	50	100	2	NE
Sample Identification	**Sample Date**	**Laboratory Analytical results**												
SB-101/MW	10/3/2013	<1	<1	<1	<1	**13**	**6**	<1	<0.2	**16**	**13**	<1	<1	**31**
	10/17/2013	<2	<2	<1	<2	**16**	**4**	<1	<0.2	**6**	**8**	<2	<1	**22**
SB-103/MW	10/2/2013	<2	**2**	<2	<2	**12**	**6**	**17**	<0.4	**46**	**8**	<2	<2	**1,200**
	10/16/2013	<2	<2	<2	<2	**11**	**4**	<2	<0.4	**35**	**3**	<3	<3	**580**
SB-104/MW	10/2/2013	<2	<2	<1	<2	**2**	**2**	<1	<0.2	**3**	<2	<2	<1	**35**
	10/17/2013	<1	<1	<1	<1	**6**	**3**	<1	<0.2	**2**	<1	<1	<1	**30**
SB-105/MW	10/2/2013	<2	<2	<1	<2	**6**	<2	<2	<0.4	**9**	<2	<2	<2	**32**
	10/17/2013	<1	**2**	<1	<1	**19**	**2**	<1	<0.2	**2**	<1	<1	<1	**52**
SB-107/MW	10/2/2013	<1	<1	<1	<1	**7**	<1	<1	<0.2	**2**	<1	<1	<1	**28**
	10/17/2013	<1	<1	<1	<1	**11**	1	<1	<1	**8**	<1	<1	<1	**46**
SB-108/MW	10/2/2013	<2	<2	<1	<2	<2	**6**	<1	<0.2	**10**	<2	<2	<1	**60**
	10/16/2013	<2	<2	<2	<2	<2	**4**	<2	<0.4	**9**	<2	<2	<2	**42**
SB-109/MW	10/2/2013	<1	<1	<1	<1	**2**	**1**	<1	<0.2	**3**	<1	<1	<1	**35**
	10/16/2013	<2	<2	<2	<2	<2	**4**	<2	<0.4	**8**	**2**	<2	<2	**42**
SB-110/MW	10/2/2013	<1	<1	<1	<1	**2**	**2**	<1	<0.2	**2**	<1	<1	<1	**39**
	10/16/2013	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	**33**
SB-118/MW	10/2/2013	<1	<1	<1	<1	**2**	**2**	<1	<0.2	**2**	<1	<1	<1	**51**
	10/17/2013	<1	<1	<1	<1	**3**	**5**	<1	<1	**8**	<1	<1	<1	**43**
SB-119/MW	10/3/2013	<2	<2	<2	<2	**6**	**5**	<2	<0.4	**4**	**21**	<2	<2	**30**
	10/16/2013	<2	<2	<2	<2	**7**	**7**	**5**	<0.4	**9**	**24**	<2	<2	**38**
SB-120/MW	10/3/2013	<2	<2	<1	<2	**3**	<2	<1	<0.2	**4**	<2	<2	<1	**31**
	10/16/2013	<2	<2	<2	<2	<2	<2	<2	<0.4	**10**	<2	<2	<2	42

Notes:
NE - not established.
-- Indicates analyte was not sampled.
Bold - indicates value exceeds laboratory method detection limits
Bold and Shaded - indicates value exceeds NHDES AGQS

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TABLE 8
GROUNDWATER SAMPLING ANALYTICAL RESULTS - VOCs
Former Burn Dump
Frank Bean Road
Laconia, New Hampshire
Sovereign Project No. NH011

		NHDES Ambient Groundwater Qualtiy Standards (AGQS)																			
		Benzene (µg/L)	Toluene (µg/L)	Ethyl-benzene (µg/L)	Total Xylenes (µg/L)	MTBE (µg/L)	Naphthalene (µg/L)	Trichloro-ethlyene (µg/L)	Tetra-chloroethylene (µg/L)	Monochloro-benzene (µg/L)	Vinyl Chloride (µg/L)	1,2-Dichloro-benzene (µg/L)	1,4-Dichloro-benzene (µg/L)	n-Butylbenzene (µg/L)	sec-Butylbenzene (µg/L)	tert-Butylbenzene (µg/L)	p-Isopropyl-toluene (µg/L)	n-Propyl-benzene (µg/L)	1,2,4 Trimethyl benzene (µg/L)	1,3,5 Trimethyl benzene (µg/L)	Isopropyl-benzene (µg/L)
		5	1,000	700	10,000	13	20	5	5	100	2	600	75	260	260	260	260	260	330	330	800
Sample Identification	Sample Date	Laboratory Analytical results																			
SB-101/MW	10/3/2013	<0.8	<2.0	<2.0	<6.0	<0.8	<4.0	**9.0**	<2.0	<2.0	<0.8	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0
	10/17/2013	<0.8	<2.0	<2.0	<6.0	<0.8	<4.0	**9.8**	<2.0	<2.0	<0.8	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0
SB-103/MW	10/2/2013	<0.8	<2.0	<2.0	<6.0	<0.8	<4.0	**29**	**2.8**	<2.0	<0.8	**7.4**	<2.0	**2.1**	**2.7**	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0
	10/16/2013	<0.8	<2.0	<2.0	<6.0	<0.8	<4.0	**50**	**3.9**	**2.1**	<0.8	**13**	<2.0	**2.3**	**3.4**	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0
SB-104/MW	10/2/2013	<0.8	<2.0	<2.0	<6.0	<0.8	<4.0	<0.8	<2.0	<2.0	<0.8	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0
	10/17/2013	<0.8	<2.0	<2.0	<6.0	<0.8	<4.0	<0.8	<2.0	<2.0	<0.8	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0
SB-105/MW	10/1/2013	<0.8	<2.0	<2.0	<6.0	<0.8	<4.0	<0.8	<2.0	**6.1**	**3.2**	**17**	**2.1**	**3.7**	**3.0**	<2.0	<2.0	**6.5**	**6.8**	**3.4**	**5.2**
	10/17/2013	<0.8	<2.0	<2.0	<6.0	<0.8	<4.0	<0.8	<2.0	**6.2**	**2.6**	**16**	<2.0	**2.9**	**2.7**	<2.0	<2.0	**5.8**	**5.3**	**2.9**	**4.9**
SB-107/MW	10/1/2013	<0.8	<2.0	<2.0	<6.0	<0.8	**21**	**1.1**	<2.0	<2.0	**2.0**	**20**	**4.3**	**6.0**	**4.3**	<2.0	**7.8**	**15**	**5.9**	**6.6**	**8.0**
	10/17/2013	<0.8	<2.0	<2.0	<6.0	<0.8	**14**	<0.8	<2.0	<2.0	**1.7**	**21**	**3.6**	**4.6**	**3.9**	<2.0	**6.2**	**15**	**4.2**	**4.0**	**9.3**
SB-108/MW	10/1/2013	<0.8	<2.0	<2.0	<6.0	<0.8	<4.0	<0.8	<2.0	<2.0	<0.8	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0
	10/16/2013	<0.8	<2.0	<2.0	<6.0	<0.8	<4.0	<0.8	<2.0	<2.0	<0.8	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0
SB-109/MW	10/1/2013	<0.8	<2.0	<2.0	<6.0	<0.8	<4.0	<0.8	<2.0	<2.0	<0.8	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0
	10/16/2013	<0.8	<2.0	<2.0	<6.0	<0.8	<4.0	<0.8	<2.0	<2.0	<0.8	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0
SB-110/MW	10/2/2013	<0.8	<2.0	<2.0	<6.0	<0.8	<4.0	<0.8	<2.0	<2.0	<0.8	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0
	10/16/2013	<0.8	<2.0	<2.0	<6.0	<0.8	<4.0	<0.8	<2.0	<2.0	<0.8	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0
SB-118/MW	10/1/2013	<0.8	<2.0	<2.0	<6.0	<0.8	<4.0	<0.8	<2.0	<2.0	<0.8	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0
	10/17/2013	<0.8	<2.0	<2.0	<6.0	<0.8	<4.0	<0.8	<2.0	<2.0	<0.8	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0
SB-119/MW	10/3/2013	<0.8	<2.0	<2.0	<6.0	<0.8	<4.0	**14**	**2.4**	<2.0	<0.8	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0
	10/16/2013	<0.8	<2.0	<2.0	<6.0	<0.8	<4.0	**13**	**2.3**	<2.0	<0.8	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0
SB-120/MW	10/3/2013	<0.8	<2.0	<2.0	<6.0	<0.8	<4.0	<0.8	<2.0	<2.0	<0.8	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0
	10/16/2013	<0.8	<2.0	<2.0	<6.0	<0.8	<4.0	**1.4**	<2.0	<2.0	<0.8	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0

Notes:
NE - not established.
MTBE - methyl tert-butyl ether.
-- Indicates analyte was not sampled.
Bold - indicates value exceeds laboratory method detection limits
Bold and Shaded - indicates value exceeds NHDES AGQS

SOVEREIGN CONSULTING INC.

ATTACHMENT A

The State of New Hampshire
DEPARTMENT OF ENVIRONMENTAL SERVICES

Thomas S. Burack, Commissioner

March 7, 2013

Scott Myers
City Manager, City of Laconia
45 Beacon Street East
Laconia, NH 03246

Subject: **Laconia** -Frank Bean Road Site, Frank Bean and Morin Roads, DES Site **#200308076**, Project #13055

Site Investigation Work Plan, Former Burn Dump, prepared by Sovereign Consulting, Inc., dated July 6, 2012

Dear Mr. Meyers:

The New Hampshire Department of Environmental Services (Department) has reviewed the Site Investigation Work Plan (SI Work Plan) submitted on your behalf by Sovereign Consulting Inc. We approve the SI Work Plan with the following comments:

- If the proposed geophysical survey is inconclusive regarding the lateral extent and depth of burn dump waste the Department will require additional confirmatory investigation.

- The SI Work Plan does not specify how samples of the burn dump ash will be selected for analysis of PAH and speciated chromium, and therefore the Department is unable to properly evaluate this proposed task. The Department may require additional sampling for these compounds if it determines that the sample methods or results are inadequate to characterize the waste.

- The SI Work Plan contains little specific information about monitoring well locations or anticipated screen depths with respect to the water table. A site plan with proposed locations was not provided in the SI Work Plan. Therefore, the Department cannot evaluate if the investigation will be adequate. The Department may require a more comprehensive investigation if selected well locations, screen zone intervals, or intervals selected for soil sampling are inadequate to fully characterize the site.

- The first round of groundwater sampling shall occur at least two weeks after monitoring well development. The Former Burn Dump Site Investigation Report shall contain measured top of casing elevations and measured depths to water used to prepare the groundwater surface contour plan.

- No description of the work associated with the scheduled work task "Assess basements at Lots 476-3 and 486-1 and install cover" was provided in the SI Work Plan. Details of how this work was completed shall be included in the Former Burn Dump Site Investigation Report. The Department will require additional response actions if it finds assessment of waste or installation of cover was insufficient to protect human health.

Schedule

Please provide a Former Burn Dump Site Investigation Report which includes the specific information required above and meets the requirements of Env-Or 606.03 by August 30, 2013.

Should you have any questions regarding this letter, please write me at the address below or call me directly.

Sincerely,

E. Molly Stark

E. Molly Stark
Waste Management Division
Tel: (603) 271-2890
Fax: (603) 271-2181
E-mail: Molly.Stark@des.nh.gov

Waste Management Division

Digitally signed by Waste Management Division
DN: cn=Waste Management Division, o=Environmental Services, ou=HWRB, email=elise.hubbard@des.nh.gov, c=US
Date: 2013.03.07 11:46:20 -05'00'

ec: Rebecca Williams, Supervisor, HWRB
Mark R. Henderson, Sovereign Consulting, Inc.
City of Laconia Health Officer

Stark, Molly

From: Henderson, Mark [mhenderson@sovcon.com]
Sent: Thursday, October 10, 2013 9:41 AM
To: Stark, Molly
Cc: Paul Moynihan, PE (moynihanp@city.laconia.nh.us)
Subject: Frank Bean Road SIR No. 200308076

Molly,

As a follow up to our phone conversation this morning and your letter of October 9, 2013, the site investigation was delayed this summer related to difficulties in acquiring all of the property access agreements. The last agreement was not secured until August 8, 2013.

Since that time, Sovereign has proceeded to complete a limited geophysical program, soil sampling, drilling and well installations, and one round of groundwater sampling. The second groundwater sampling event is scheduled to occur next week. We anticipate having all laboratory data reports in by November 1st and will issue the SIR by November 27, 2013.

Feel free to contact me with any further questions or concerns.

MRH

Mark R. Henderson, PG
Program Manager | email: mhenderson@sovcon.com
phone: 603-856-8644 ext. 223
cell: 603-236-4321

Sovereign Consulting Inc.
7 Hills Avenue
Concord, NH 03301
www.sovcon.com

Science. Service. Solutions.

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Science. Service. Solutions.

ATTACHMENT B

LIMITATIONS

1. Analytical tests performed in the field and in the laboratory were done for the purpose of identifying the likelihood that hazardous wastes exist beneath the site. Analytical tests were not completed for every compound on the EPA list of priority pollutants, nor was the entire site explored for the purpose of revealing a potential problem. Explorations were widely spaced, thus it is possible that hazardous materials may be present beneath unexplored areas of the site.

2. The analyses and conclusions in this report are based in part upon chemical test data provided by others and are contingent upon their validity. Should additional chemical analyses indicate different evidence of contamination, these data should be reviewed by Sovereign Consulting Inc. (Sovereign) and the conclusions presented herein may be modified. It should be noted that variations in the type of contaminants, their concentrations, and their direction of flow would occur due to water table fluctuations and alteration of disposal practices, as well as other factors. As such, it cannot be stated with absolute certainty whether or not a hazardous waste contamination problem exists or will exist in the future at the site.

3. This study and report have been prepared for the exclusive use of the City of Laconia and their Lender and Title Insurer associated with the site solely for the use of an evaluation of the site. Except for the purpose of satisfying federal, state, and local regulations, this report and the findings contained herein shall not, in whole or part, be disseminated or conveyed to any other party, nor used by any other party, in whole or in part, without prior written consent of Sovereign. This report has been prepared in accordance with generally accepted environmental assessment practices. No other warranty, expressed or implied, is made.

ATTACHMENT C

Frank Bean Road
Frank Bean
Laconia, NH 03246

Inquiry Number: 3582056.2s
April 22, 2013

The EDR Radius Map™ Report with GeoCheck®

EDR® Environmental Data Resources Inc

440 Wheelers Farms Road
Milford, CT 06461
Toll Free: 800.352.0050
www.edrnet.com

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Thank you for your business.
Please contact EDR at 1-800-352-0050
with any questions or comments.

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EXECUTIVE SUMMARY

A search of available environmental records was conducted by Environmental Data Resources, Inc (EDR). The report was designed to assist parties seeking to meet the search requirements of EPA's Standards and Practices for All Appropriate Inquiries (40 CFR Part 312), the ASTM Standard Practice for Environmental Site Assessments (E 1527-05) or custom requirements developed for the evaluation of environmental risk associated with a parcel of real estate.

TARGET PROPERTY INFORMATION

ADDRESS

FRANK BEAN
LACONIA, NH 03246

COORDINATES

Latitude (North):	43.5116000 - 43˚ 30' 41.76''
Longitude (West):	71.4484000 - 71˚ 26' 54.24''
Universal Tranverse Mercator:	Zone 19
UTM X (Meters):	302089.8
UTM Y (Meters):	4820326.5
Elevation:	700 ft. above sea level

USGS TOPOGRAPHIC MAP ASSOCIATED WITH TARGET PROPERTY

Target Property Map:	43071-E4 LACONIA, NH
Most Recent Revision:	1987
South Map:	43071-D4 BELMONT, NH
Most Recent Revision:	1987

AERIAL PHOTOGRAPHY IN THIS REPORT

Photo Year:	2011
Source:	USDA

TARGET PROPERTY SEARCH RESULTS

The target property was identified in the following records. For more information on this property see page 7 of the attached EDR Radius Map report:

Site	Database(s)	EPA ID
FRANK BEAN RD LANDFILL SITE 113 FRANK BEAN RD LACONIA, NH 03246	FINDS	N/A
FRANK BEAN RD LANDFILL SITE 113 FRANK BEAN RD LACONIA NH 03246 LACONIA, NH 03246	ICIS	N/A

EXECUTIVE SUMMARY

DATABASES WITH NO MAPPED SITES

No mapped sites were found in EDR's search of available ("reasonably ascertainable ") government records either on the target property or within the search radius around the target property for the following databases:

STANDARD ENVIRONMENTAL RECORDS

Federal NPL site list

NPL ..... National Priority List
Proposed NPL ..... Proposed National Priority List Sites
NPL LIENS ..... Federal Superfund Liens

Federal Delisted NPL site list

Delisted NPL ..... National Priority List Deletions

Federal CERCLIS list

FEDERAL FACILITY ..... Federal Facility Site Information listing

Federal CERCLIS NFRAP site List

CERC-NFRAP ..... CERCLIS No Further Remedial Action Planned

Federal RCRA CORRACTS facilities list

CORRACTS ..... Corrective Action Report

Federal RCRA non-CORRACTS TSD facilities list

RCRA-TSDF ..... RCRA - Treatment, Storage and Disposal

Federal RCRA generators list

RCRA-LQG ..... RCRA - Large Quantity Generators
RCRA-SQG ..... RCRA - Small Quantity Generators
RCRA-CESQG ..... RCRA - Conditionally Exempt Small Quantity Generator

Federal institutional controls / engineering controls registries

US ENG CONTROLS ..... Engineering Controls Sites List
US INST CONTROL ..... Sites with Institutional Controls
LUCIS ..... Land Use Control Information System

Federal ERNS list

ERNS ..... Emergency Response Notification System

State- and tribal - equivalent CERCLIS

SHWS ..... Listing of All Sites

EXECUTIVE SUMMARY

State and tribal landfill and/or solid waste disposal site lists

SWF/LF..... Solid Waste Facility Information

State and tribal leaking storage tank lists

LUST..... Listing of All Sites
LAST..... Listing of All Sites
INDIAN LUST..... Leaking Underground Storage Tanks on Indian Land

State and tribal registered storage tank lists

UST..... Underground Storage Tank Registration Data
AST..... Registered Aboveground Petroleum Storage Tank Database
INDIAN UST..... Underground Storage Tanks on Indian Land
FEMA UST..... Underground Storage Tank Listing

State and tribal institutional control / engineering control registries

INST CONTROL..... Activity and Use Restrictions

State and tribal voluntary cleanup sites

VCP..... Voluntary Cleanup Program Sites
INDIAN VCP..... Voluntary Cleanup Priority Listing

State and tribal Brownfields sites

BROWNFIELDS..... Brownfields Sites

ADDITIONAL ENVIRONMENTAL RECORDS

Local Brownfield lists

US BROWNFIELDS..... A Listing of Brownfields Sites

Local Lists of Landfill / Solid Waste Disposal Sites

DEBRIS REGION 9..... Torres Martinez Reservation Illegal Dump Site Locations
ODI..... Open Dump Inventory
SWRCY..... Recycling Centers
INDIAN ODI..... Report on the Status of Open Dumps on Indian Lands

Local Lists of Hazardous waste / Contaminated Sites

US CDL..... Clandestine Drug Labs
ALLSITES..... Site Remediation & Groundwater Hazard Inventory Listing of All Sites
CDL..... Clandestine Drug Lab Listing
US HIST CDL..... National Clandestine Laboratory Register

Local Land Records

LIENS 2..... CERCLA Lien Information

LIENS ..... Environmental Liens Information Listing

Records of Emergency Release Reports

HMIRS ..... Hazardous Materials Information Reporting System
SPILLS ..... Listing of All Sites

Other Ascertainable Records

DOT OPS ..... Incident and Accident Data
DOD ..... Department of Defense Sites
FUDS ..... Formerly Used Defense Sites
CONSENT ..... Superfund (CERCLA) Consent Decrees
ROD ..... Records Of Decision
UMTRA ..... Uranium Mill Tailings Sites
US MINES ..... Mines Master Index File
TRIS ..... Toxic Chemical Release Inventory System
TSCA ..... Toxic Substances Control Act
FTTS ..... FIFRA/ TSCA Tracking System - FIFRA (Federal Insecticide, Fungicide, & Rodenticide Act)/TSCA (Toxic Substances Control Act)
HIST FTTS ..... FIFRA/TSCA Tracking System Administrative Case Listing
SSTS ..... Section 7 Tracking Systems
PADS ..... PCB Activity Database System
MLTS ..... Material Licensing Tracking System
RADINFO ..... Radiation Information Database
RAATS ..... RCRA Administrative Action Tracking System
RMP ..... Risk Management Plans
DRYCLEANERS ..... Listing of Drycleaners
NPDES ..... NPDES Permit Listing
AIRS ..... Permitted Airs Facility Listing
LEAD ..... Lead Inspection Database
INDIAN RESERV ..... Indian Reservations
SCRD DRYCLEANERS ..... State Coalition for Remediation of Drycleaners Listing
2020 COR ACTION ..... 2020 Corrective Action Program List
Financial Assurance ..... Financial Assurance Information Listing
COAL ASH EPA ..... Coal Combustion Residues Surface Impoundments List
COAL ASH DOE ..... Steam-Electric Plant Operation Data
PCB TRANSFORMER ..... PCB Transformer Registration Database
US FIN ASSUR ..... Financial Assurance Information
EPA WATCH LIST ..... EPA WATCH LIST
US AIRS ..... Aerometric Information Retrieval System Facility Subsystem
PRP ..... Potentially Responsible Parties

EDR HIGH RISK HISTORICAL RECORDS

EDR Exclusive Records

EDR MGP ..... EDR Proprietary Manufactured Gas Plants
EDR US Hist Cleaners ..... EDR Exclusive Historic Dry Cleaners

SURROUNDING SITES: SEARCH RESULTS

Surrounding sites were identified in the following databases.

EXECUTIVE SUMMARY

Elevations have been determined from the USGS Digital Elevation Model and should be evaluated on a relative (not an absolute) basis. Relative elevation information between sites of close proximity should be field verified. Sites with an elevation equal to or higher than the target property have been differentiated below from sites with an elevation lower than the target property.
Page numbers and map identification numbers refer to the EDR Radius Map report where detailed data on individual sites can be reviewed.

Sites listed in ***bold italics*** are in multiple databases.

Unmappable (orphan) sites are not considered in the foregoing analysis.

STANDARD ENVIRONMENTAL RECORDS

Federal CERCLIS list

CERCLIS: The Comprehensive Environmental Response, Compensation and Liability Information System contains data on potentially hazardous waste sites that have been reported to the USEPA by states, municipalities, private companies and private persons, pursuant to Section 103 of the Comprehensive Environmental Response, Compensation and Liability Act (CERCLA). CERCLIS contains sites which are either proposed to or on the National Priorities List (NPL) and sites which are in the screening and assessment phase for possible inclusion on the NPL.

A review of the CERCLIS list, as provided by EDR, and dated 02/04/2013 has revealed that there is 1 CERCLIS site within approximately 0.5 miles of the target property.

Lower Elevation	Address	Direction / Distance	Map ID	Page
FRANK BEAN ROAD	***351 FRANK BEAN ROAD***	***ESE 0 - 1/8 (0.048 mi.)***	***4***	***8***

ADDITIONAL ENVIRONMENTAL RECORDS

Other Ascertainable Records

RCRA NonGen / NLR: RCRAInfo is EPA's comprehensive information system, providing access to data supporting the Resource Conservation and Recovery Act (RCRA) of 1976 and the Hazardous and Solid Waste Amendments (HSWA) of 1984. The database includes selective information on sites which generate, transport, store, treat and/or dispose of hazardous waste as defined by the Resource Conservation and Recovery Act (RCRA). Non-Generators do not presently generate hazardous waste.

A review of the RCRA NonGen / NLR list, as provided by EDR, and dated 02/12/2013 has revealed that there are 5 RCRA NonGen / NLR sites within approximately 0.25 miles of the target property.

Lower Elevation	Address	Direction / Distance	Map ID	Page
RTE 107 INDUSTRIAL PARK	485 PROVINCE RD	SSW 1/8 - 1/4 (0.135 mi.)	B7	10
MIL COM INDUSTRIES INC	RTE 107 & FRANK BEAN RD	SSW 1/8 - 1/4 (0.136 mi.)	B9	12
BUSTERS AUTO BODY	***505 PROVINCE ST***	***SSW 1/8 - 1/4 (0.146 mi.)***	***B10***	***12***
BURNS MACHINE	***516 PROVINCE RD***	***SSW 1/8 - 1/4 (0.154 mi.)***	***12***	***14***
GILBERT BLOCK CO INC	351 PROVINCE RD	W 1/8 - 1/4 (0.192 mi.)	C14	17

EXECUTIVE SUMMARY

EDR HIGH RISK HISTORICAL RECORDS

EDR Exclusive Records

EDR US Hist Auto Stat: EDR has searched selected national collections of business directories and has collected listings of potential gas station/filling station/service station sites that were available to EDR researchers. EDR's review was limited to those categories of sources that might, in EDR's opinion, include gas station/filling station/service station establishments. The categories reviewed included, but were not limited to gas, gas station, gasoline station, filling station, auto, automobile repair, auto service station, service station, etc. This database falls within a category of information EDR classifies as "High Risk Historical Records", or HRHR. EDR's HRHR effort presents unique and sometimes proprietary data about past sites and operations that typically create environmental concerns, but may not show up in current government records searches.

A review of the EDR US Hist Auto Stat list, as provided by EDR, has revealed that there are 5 EDR US Hist Auto Stat sites within approximately 0.25 miles of the target property.

Equal/Higher Elevation	Address	Direction / Distance	Map ID	Page
Not reported	144 FRANK BEAN RD	0 - 1/8 (0.000 mi.)	3	8

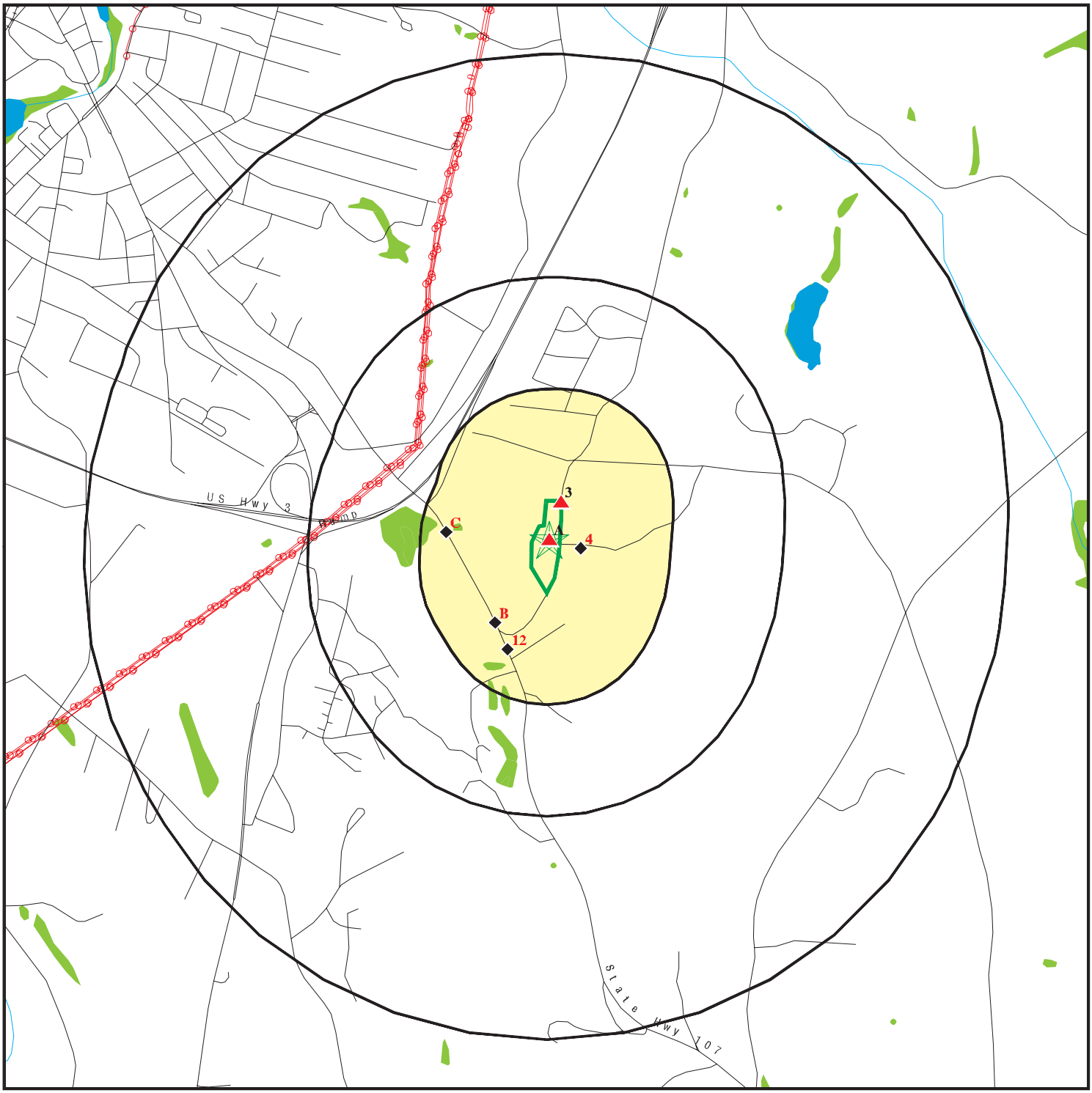
Lower Elevation	Address	Direction / Distance	Map ID	Page
Not reported	477 PROVINCE RD	SSW 1/8 - 1/4 (0.133 mi.)	B5	10
Not reported	484 PROVINCE RD	SSW 1/8 - 1/4 (0.133 mi.)	B6	10
Not reported	485 PROVINCE RD	SSW 1/8 - 1/4 (0.135 mi.)	B8	11
Not reported	505 PROVINCE RD	SSW 1/8 - 1/4 (0.146 mi.)	B11	13

EXECUTIVE SUMMARY

Due to poor or inadequate address information, the following sites were not mapped. Count: 45 records.

Site Name	Database(s)
HAZARDOUS WASTE DUMPING	ALLSITES,HWS
LACONIA DISPOSAL GARDENS	ALLSITES,LF
NH COMMUNITY TECHNICAL COLLEGE	ALLSITES,LUST
ROUTE 107 WAREHOUSES	UST
CHRISTMAS ISLAND MOTEL	UST
FUNSPOT	UST
NH DES WMD	RCRA-NLR
PATS AUTO REPAIR	RCRA-NLR
BRITANNIA PRECISION TOOL	RCRA-NLR
BELKNAP MOTORS	RCRA-NLR
CLEAN HARBORS LRPC HHWC	RCRA-NLR
NEW ENGLAND FIBERGLASS	RCRA-NLR
LAKE AIRPORT AIRCRAFT NORTH	RCRA-NLR
J & L AUTO BODY	RCRA-NLR
HUTCHINS TRUCKING	RCRA-NLR
FOSS ANDREW CO	RCRA-NLR
LAKES REGION NH TECHNICAL COLLEGE	RCRA-NLR
NH DOT	RCRA-NLR
AUTO SERVICE EAST	RCRA-NLR
CHUMLEYS	RCRA-NLR
SCOTIA TECHNOLOGY	RCRA-NLR
GOVERNORS CROSSING LLC CARE OF THE	RCRA-NLR
CONTRACT MUNICIPAL SUPPLY	RCRA-NLR
IRVING OIL CORP	RCRA-NLR
NH DES WMD	RCRA-NLR
COLEMAN BROUGH SUBARU	RCRA-NLR
RYDER TRUCK	RCRA-NLR
NH DES WMD	RCRA-NLR
ESTATE OF ALMEDA CURLEY	ALLSITES
MC GREEVY BUICK & CADILLAC, INC.	MANIFEST
BELMONT SAND & GRAVEL	MANIFEST
FREEDOM HONDA SUZUKI	MANIFEST
IRWIN MARINE	MANIFEST
N.H. DES	MANIFEST
K-MART AUTO	MANIFEST
NORTHEAST TIRE SERVICE INC	MANIFEST
NORTHEAST TIRE SERVICE INC.	MANIFEST
GETTY PELEOLEUM	MANIFEST
GETTY PETROLEUM CORP	MANIFEST
GILGORD BOAT SALES	MANIFEST
BOSTON NORTH	MANIFEST
GUNSTOCK AREA	MANIFEST
ALPINE RIDGE	MANIFEST
AUTOMOTIVE SERVICES	MANIFEST
MCGREEVY BUICK	MANIFEST

OVERVIEW MAP - 3582056.2s



- Target Property
- Sites at elevations higher than or equal to the target property
- Sites at elevations lower than the target property
- Manufactured Gas Plants
- National Priority List Sites
- Dept. Defense Sites
- Indian Reservations BIA
- Power transmission lines
- Oil & Gas pipelines from USGS
- National Wetland Inventory
- State Wetlands

0 1/4 1/2 1 Miles

This report includes Interactive Map Layers to display and/or hide map information. The legend includes only those icons for the default map view.

SITE NAME: Frank Bean Road	CLIENT: Sovereign Consulting
ADDRESS: Frank Bean Laconia NH 03246	CONTACT: Mark Henderson
LAT/LONG: 43.5116 / 71.4484	INQUIRY #: 3582056.2s
	DATE: April 22, 2013 5:51 pm

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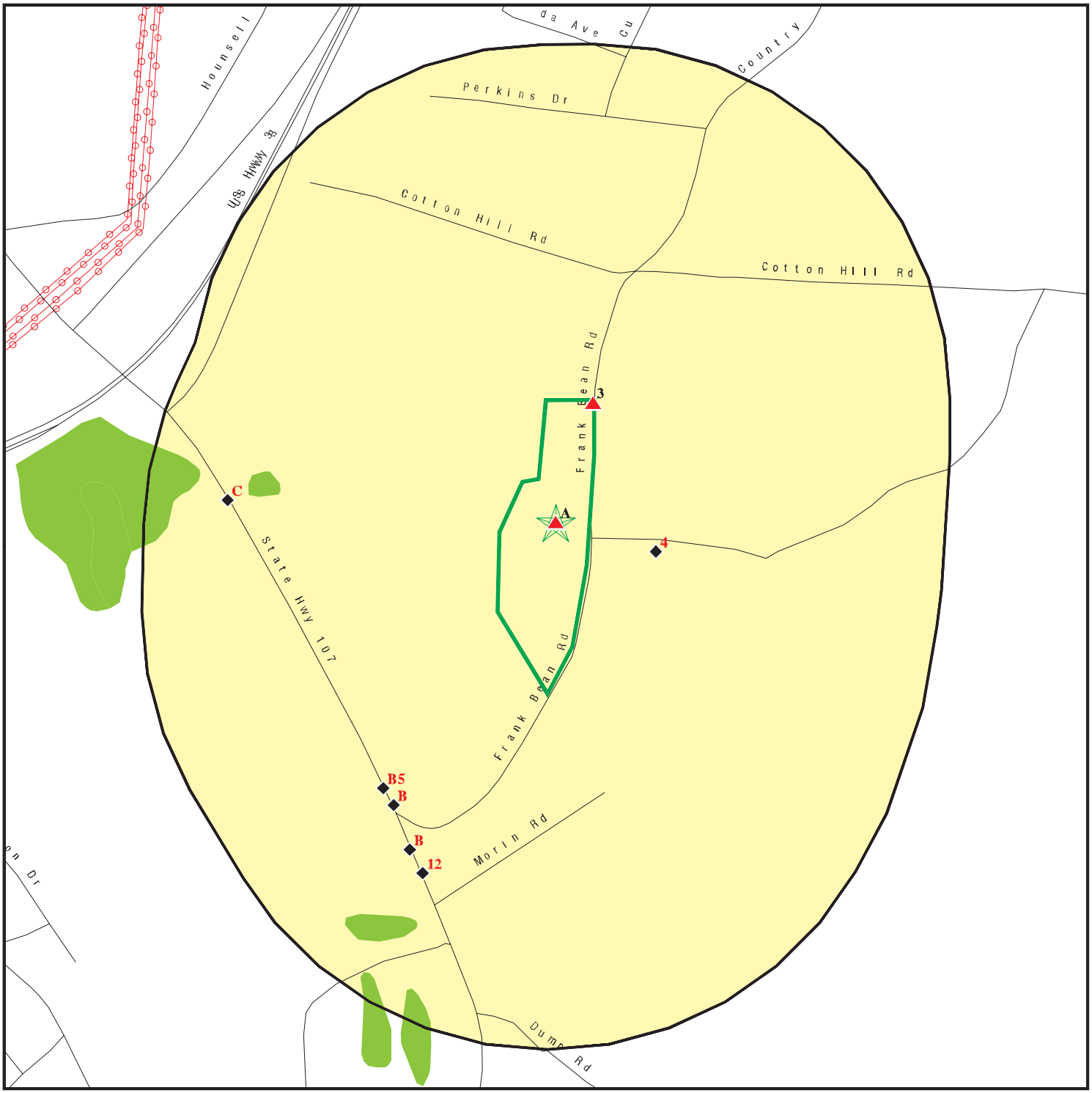
DETAIL MAP - 3582056.2s



Target Property

Sites at elevations higher than or equal to the target property

Sites at elevations lower than the target property

Manufactured Gas Plants

Sensitive Receptors

National Priority List Sites

Dept. Defense Sites

0 1/16 1/8 1/4 Miles

Indian Reservations BIA

Power transmission lines

Oil & Gas pipelines from USGS

National Wetland Inventory

State Wetlands

This report includes Interactive Map Layers to display and/or hide map information. The legend includes only those icons for the default map view.

SITE NAME: Frank Bean Road ADDRESS: Frank Bean Laconia NH 03246 LAT/LONG: 43.5116 / 71.4484	CLIENT: Sovereign Consulting CONTACT: Mark Henderson INQUIRY #: 3582056.2s DATE: April 22, 2013 5:51 pm

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MAP FINDINGS SUMMARY

Database	Search Distance (Miles)	Target Property	< 1/8	1/8 - 1/4	1/4 - 1/2	1/2 - 1	> 1	Total Plotted
STANDARD ENVIRONMENTAL RECORDS								
Federal NPL site list								
NPL	1.000		0	0	0	0	NR	0
Proposed NPL	1.000		0	0	0	0	NR	0
NPL LIENS	TP		NR	NR	NR	NR	NR	0
Federal Delisted NPL site list								
Delisted NPL	1.000		0	0	0	0	NR	0
Federal CERCLIS list								
CERCLIS	0.500		1	0	0	NR	NR	1
FEDERAL FACILITY	0.500		0	0	0	NR	NR	0
Federal CERCLIS NFRAP site List								
CERC-NFRAP	0.500		0	0	0	NR	NR	0
Federal RCRA CORRACTS facilities list								
CORRACTS	1.000		0	0	0	0	NR	0
Federal RCRA non-CORRACTS TSD facilities list								
RCRA-TSDF	0.500		0	0	0	NR	NR	0
Federal RCRA generators list								
RCRA-LQG	0.250		0	0	NR	NR	NR	0
RCRA-SQG	0.250		0	0	NR	NR	NR	0
RCRA-CESQG	0.250		0	0	NR	NR	NR	0
Federal institutional controls / engineering controls registries								
US ENG CONTROLS	0.500		0	0	0	NR	NR	0
US INST CONTROL	0.500		0	0	0	NR	NR	0
LUCIS	0.500		0	0	0	NR	NR	0
Federal ERNS list								
ERNS	TP		NR	NR	NR	NR	NR	0
State- and tribal - equivalent CERCLIS								
SHWS	1.000		0	0	0	0	NR	0
State and tribal landfill and/or solid waste disposal site lists								
SWF/LF	0.500		0	0	0	NR	NR	0
State and tribal leaking storage tank lists								
LUST	0.500		0	0	0	NR	NR	0
LAST	0.500		0	0	0	NR	NR	0
INDIAN LUST	0.500		0	0	0	NR	NR	0
State and tribal registered storage tank lists								
UST	0.250		0	0	NR	NR	NR	0

MAP FINDINGS SUMMARY

Database	Search Distance (Miles)	Target Property	< 1/8	1/8 - 1/4	1/4 - 1/2	1/2 - 1	> 1	Total Plotted
AST	0.250		0	0	NR	NR	NR	0
INDIAN UST	0.250		0	0	NR	NR	NR	0
FEMA UST	0.250		0	0	NR	NR	NR	0
State and tribal institutional control / engineering control registries								
INST CONTROL	0.500		0	0	0	NR	NR	0
State and tribal voluntary cleanup sites								
VCP	0.500		0	0	0	NR	NR	0
INDIAN VCP	0.500		0	0	0	NR	NR	0
State and tribal Brownfields sites								
BROWNFIELDS	0.500		0	0	0	NR	NR	0
ADDITIONAL ENVIRONMENTAL RECORDS								
Local Brownfield lists								
US BROWNFIELDS	0.500		0	0	0	NR	NR	0
Local Lists of Landfill / Solid Waste Disposal Sites								
DEBRIS REGION 9	0.500		0	0	0	NR	NR	0
ODI	0.500		0	0	0	NR	NR	0
SWRCY	0.500		0	0	0	NR	NR	0
INDIAN ODI	0.500		0	0	0	NR	NR	0
Local Lists of Hazardous waste / Contaminated Sites								
US CDL	TP		NR	NR	NR	NR	NR	0
ALLSITES	0.500		0	0	0	NR	NR	0
CDL	TP		NR	NR	NR	NR	NR	0
US HIST CDL	TP		NR	NR	NR	NR	NR	0
Local Land Records								
LIENS 2	TP		NR	NR	NR	NR	NR	0
LIENS	TP		NR	NR	NR	NR	NR	0
Records of Emergency Release Reports								
HMIRS	TP		NR	NR	NR	NR	NR	0
SPILLS	TP		NR	NR	NR	NR	NR	0
Other Ascertainable Records								
RCRA NonGen / NLR	0.250		0	5	NR	NR	NR	5
DOT OPS	TP		NR	NR	NR	NR	NR	0
DOD	1.000		0	0	0	0	NR	0
FUDS	1.000		0	0	0	0	NR	0
CONSENT	1.000		0	0	0	0	NR	0
ROD	1.000		0	0	0	0	NR	0
UMTRA	0.500		0	0	0	NR	NR	0

MAP FINDINGS SUMMARY

Database	Search Distance (Miles)	Target Property	< 1/8	1/8 - 1/4	1/4 - 1/2	1/2 - 1	> 1	Total Plotted
US MINES	0.250		0	0	NR	NR	NR	0
TRIS	TP		NR	NR	NR	NR	NR	0
TSCA	TP		NR	NR	NR	NR	NR	0
FTTS	TP		NR	NR	NR	NR	NR	0
HIST FTTS	TP		NR	NR	NR	NR	NR	0
SSTS	TP		NR	NR	NR	NR	NR	0
ICIS	TP	1	NR	NR	NR	NR	NR	1
PADS	TP		NR	NR	NR	NR	NR	0
MLTS	TP		NR	NR	NR	NR	NR	0
RADINFO	TP		NR	NR	NR	NR	NR	0
FINDS	TP	1	NR	NR	NR	NR	NR	1
RAATS	TP		NR	NR	NR	NR	NR	0
RMP	TP		NR	NR	NR	NR	NR	0
DRYCLEANERS	0.250		0	0	NR	NR	NR	0
NPDES	TP		NR	NR	NR	NR	NR	0
AIRS	TP		NR	NR	NR	NR	NR	0
LEAD	TP		NR	NR	NR	NR	NR	0
INDIAN RESERV	1.000		0	0	0	0	NR	0
SCRD DRYCLEANERS	0.500		0	0	0	NR	NR	0
2020 COR ACTION	0.250		0	0	NR	NR	NR	0
Financial Assurance	TP		NR	NR	NR	NR	NR	0
COAL ASH EPA	0.500		0	0	0	NR	NR	0
COAL ASH DOE	TP		NR	NR	NR	NR	NR	0
PCB TRANSFORMER	TP		NR	NR	NR	NR	NR	0
US FIN ASSUR	TP		NR	NR	NR	NR	NR	0
EPA WATCH LIST	TP		NR	NR	NR	NR	NR	0
US AIRS	TP		NR	NR	NR	NR	NR	0
PRP	TP		NR	NR	NR	NR	NR	0

EDR HIGH RISK HISTORICAL RECORDS

EDR Exclusive Records

EDR MGP	1.000	0	0	0	0	NR	0
EDR US Hist Auto Stat	0.250	1	4	NR	NR	NR	5
EDR US Hist Cleaners	0.250	0	0	NR	NR	NR	0

NOTES:

TP = Target Property

NR = Not Requested at this Search Distance

Sites may be listed in more than one database

A1 Target Property | **FRANK BEAN RD LANDFILL SITE** | **FINDS** | **1010495163**
113 FRANK BEAN RD | **N/A**
LACONIA, NH 03246

Site 1 of 2 in cluster A

Actual: 700 ft.

FINDS:

Registry ID: 110032599409

Environmental Interest/Information System
ICIS (Integrated Compliance Information System) is the Integrated Compliance Information System and provides a database that, when complete, will contain integrated Enforcement and Compliance information across most of EPA's programs. The vision for ICIS is to replace EPA's independent databases that contain Enforcement data with a single repository for that information. Currently, ICIS contains all Federal Administrative and Judicial enforcement actions. This information is maintained in ICIS by EPA in the Regional offices and it Headquarters. A future release of ICIS will replace the Permit Compliance System (PCS) which supports the NPDES and will integrate that information with Federal actions already in the system. ICIS also has the capability to track other activities occurring in the Region that support Compliance and Enforcement programs. These include; Incident Tracking, Compliance Assistance, and Compliance Monitoring.

A2 Target Property | **FRANK BEAN RD LANDFILL SITE** | **ICIS** | **1011492389**
113 FRANK BEAN RD LACONIA NH 03246 | **N/A**
LACONIA, NH 03246

Site 2 of 2 in cluster A

Actual: 700 ft.

ICIS:

Enforcement Action ID:	01-2007-0517
FRS ID:	110032599409
Program ID:	FRS 110032599409
Action Name:	RAYMOND REED ET AL
Facility Name:	FRANK BEAN RD LANDFILL SITE
Facility Address:	113 FRANK BEAN RD LACONIA NH 03246 LACONIA, New Hampshire 03246
Enforcement Action Type:	CERCLA 104E5A AO For Access And/Or Info
Facility County:	Belknap
EPA Region #:	1

Program ID:	FRS 110032599409
Facility Name:	FRANK BEAN RD LANDFILL SITE
Address:	113 FRANK BEAN RD
Tribal Indicator:	N
Fed Facility:	Not reported
NAIC Code:	Not reported
SIC Code:	Not reported
Latitude:	43.511428
Longitude:	-71.448163

3 **EDR US Hist Auto Stat** **1015228445**
N/A

144 FRANK BEAN RD
< 1/8 **LACONIA, NH 03246**
1 ft.

Relative:
Higher

Actual:
705 ft.

EDR Historical Auto Stations:

Name:	LACONIA MOTORBIKE LLC
Year:	2011
Address:	144 FRANK BEAN RD
Name:	LACONIA MOTORBIKE LLC
Year:	2012
Address:	144 FRANK BEAN RD

---

4 **FRANK BEAN ROAD** **CERCLIS** **1007372365**
ESE **351 FRANK BEAN ROAD** **PRP** **NHN000103369**
< 1/8 **LACONIA, NH 03246**
0.048 mi.
253 ft.

Relative:
Lower

Actual:
699 ft.

CERCLIS:

Site ID:	0103369
EPA ID:	NHN000103369
Facility County:	BELKNAP
Short Name:	FRANK BEAN ROAD
Congressional District:	01
IFMS ID:	Not reported
SMSA Number:	Not reported
USGC Hydro Unit:	Not reported
Federal Facility:	Not a Federal Facility
DMNSN Number:	0.00000
Site Orphan Flag:	Not reported
RCRA ID:	Not reported
USGS Quadrangle:	Not reported
Site Init By Prog:	S
NFRAP Flag:	Not reported
Parent ID:	Not reported
RST Code:	Not reported
EPA Region:	01
Classification:	Not reported
Site Settings Code:	Not reported
NPL Status:	Not on the NPL
DMNSN Unit Code:	Not reported
RBRAC Code:	Not reported
RResp Fed Agency Code:	Not reported
Non NPL Status:	Other Cleanup Activity: State-Lead Cleanup
Non NPL Status Date:	04/24/12
Site Fips Code:	33001
CC Concurrence Date:	/ /
CC Concurrence FY:	Not reported
Alias EPA ID:	Not reported
Site FUDS Flag:	Not reported

CERCLIS Site Contact Name(s):

Contact ID:	1270187.00000
Contact Name:	Nancy Smith
Contact Tel:	(617) 918-1436
Contact Title:	Site Assessment Manager (SAM)
Contact Email:	Not reported

FRANK BEAN ROAD (Continued) **1007372365**

Alias Comments: Not reported
Site Description: Not reported

CERCLIS Assessment History:

Action Code: 001
Action: DISCOVERY
Date Started: / /
Date Completed: 04/27/04
Priority Level: Not reported
Operable Unit: SITEWIDE
Primary Responsibility: EPA Fund-Financed
Planning Status: Not reported
Urgency Indicator: Not reported
Action Anomaly: Not reported

Action Code: 001
Action: PRELIMINARY ASSESSMENT
Date Started: 11/05/04
Date Completed: 09/19/06
Priority Level: Low priority for further assessment
Operable Unit: SITEWIDE
Primary Responsibility: EPA Fund-Financed
Planning Status: Not reported
Urgency Indicator: Abbrev Prelim Assess
Action Anomaly: Not reported

Action Code: 001
Action: UNILATERAL ADMIN ORDER
Date Started: / /
Date Completed: 08/13/07
Priority Level: Not reported
Operable Unit: SITEWIDE
Primary Responsibility: Federal Enforcement
Planning Status: Not reported
Urgency Indicator: Not reported
Action Anomaly: Not reported

Action Code: 002
Action: UNILATERAL ADMIN ORDER
Date Started: / /
Date Completed: 09/27/07
Priority Level: Not reported
Operable Unit: SITEWIDE
Primary Responsibility: Federal Enforcement
Planning Status: Not reported
Urgency Indicator: Not reported
Action Anomaly: Not reported

Action Code: 001
Action: SITE INSPECTION
Date Started: 08/22/06
Date Completed: 12/22/09
Priority Level: Low priority for further assessment

FRANK BEAN ROAD (Continued) **1007372365**

Operable Unit: SITEWIDE
Primary Responsibility: EPA Fund-Financed
Planning Status: Not reported
Urgency Indicator: Not reported
Action Anomaly: Not reported

PRP:
PRP name: REED, RAYMOND
REED, RAYMOND
REED, WILLIAM
REED, WILLIAM

B5 **EDR US Hist Auto Stat** **1015512931**
SSW **477 PROVINCE RD** **N/A**
1/8-1/4 **LACONIA, NH 03246**
0.133 mi.
703 ft. **Site 1 of 7 in cluster B**

Relative:
Lower

Actual:
641 ft.

EDR Historical Auto Stations:
Name: NI MOTOR
Year: 2012
Address: 477 PROVINCE RD

B6 **EDR US Hist Auto Stat** **1015515622**
SSW **484 PROVINCE RD** **N/A**
1/8-1/4 **LACONIA, NH 03246**
0.133 mi.
704 ft. **Site 2 of 7 in cluster B**

Relative:
Lower

Actual:
641 ft.

EDR Historical Auto Stations:
Name: EXACT AUTO WAREHOUSE
Year: 2003
Address: 484 PROVINCE RD

B7 **RTE 107 INDUSTRIAL PARK** **RCRA NonGen / NLR** **1008890091**
SSW **485 PROVINCE RD** **NHD510168966**
1/8-1/4 **LACONIA, NH 03246**
0.135 mi.
714 ft. **Site 3 of 7 in cluster B**

Relative:
Lower

Actual:
641 ft.

RCRA NonGen / NLR:
Date form received by agency: 07/24/2001
Facility name: RTE 107 INDUSTRIAL PARK
Facility address: 485 PROVINCE RD
UNIT 29
LACONIA, NH 03246
EPA ID: NHD510168966
Mailing address: P O BOX 1345
LACONIA, NH 032473415
Contact: PETE OR TIM BARTHOLOMEW
Contact address: P O BOX 1345
LACONIA, NH 032473415
Contact country: US

RTE 107 INDUSTRIAL PARK (Continued) **1008890091**

Contact telephone: (603) 267-8825
Contact email: Not reported
EPA Region: 01
Classification: Non-Generator
Description: Handler: Non-Generators do not presently generate hazardous waste

Handler Activities Summary:
U.S. importer of hazardous waste: No
Mixed waste (haz. and radioactive): No
Recycler of hazardous waste: No
Transporter of hazardous waste: No
Treater, storer or disposer of HW: No
Underground injection activity: No
On-site burner exemption: No
Furnace exemption: No
Used oil fuel burner: No
Used oil processor: No
User oil refiner: No
Used oil fuel marketer to burner: No
Used oil Specification marketer: No
Used oil transfer facility: No
Used oil transporter: No

Violation Status: No violations found

B8 **EDR US Hist Auto Stat** **1015515913**
SSW **485 PROVINCE RD** **N/A**
1/8-1/4 **LACONIA, NH 03246**
0.135 mi.
714 ft. **Site 4 of 7 in cluster B**

Relative:
Lower

Actual:
641 ft.

EDR Historical Auto Stations:
Name: MEREDITH TRUCK & EQUIPMENT REPAIRS
Year: 2009
Address: 485 PROVINCE RD

Name: MEREDITH TRUCK & EQPT REPAIRS
Year: 2010
Address: 485 PROVINCE RD

Name: MEREDITH TRUCK & EQUIPMENT REPAIRS
Year: 2011
Address: 485 PROVINCE RD

Name: MEREDITH TRUCK & EQUIPMENT REPAIRS
Year: 2012
Address: 485 PROVINCE RD

B9 SSW 1/8-1/4 0.136 mi. 716 ft. — **MIL COM INDUSTRIES INC**, **RTE 107 & FRANK BEAN RD**, **LACONIA, NH 03246** — **RCRA NonGen / NLR** — **1008885612** / **NHD510082845**

Site 5 of 7 in cluster B

Relative: Lower

Actual: 641 ft.

RCRA NonGen / NLR:

Date form received by agency:	03/06/1999
Facility name:	MIL COM INDUSTRIES INC
Facility address:	RTE 107 & FRANK BEAN RD BLDG 2 LACONIA, NH 03246
EPA ID:	NHD510082845
Mailing address:	PO BOX 1100 LACONIA, NH 032461100
Contact:	JOHN MANN
Contact address:	PO BOX 1100 LACONIA, NH 032461100
Contact country:	US
Contact telephone:	(603) 528-6276
Contact email:	Not reported
EPA Region:	01
Classification:	Non-Generator
Description:	Handler: Non-Generators do not presently generate hazardous waste

Handler Activities Summary:

U.S. importer of hazardous waste:	No
Mixed waste (haz. and radioactive):	No
Recycler of hazardous waste:	No
Transporter of hazardous waste:	No
Treater, storer or disposer of HW:	No
Underground injection activity:	No
On-site burner exemption:	No
Furnace exemption:	No
Used oil fuel burner:	No
Used oil processor:	No
User oil refiner:	No
Used oil fuel marketer to burner:	No
Used oil Specification marketer:	No
Used oil transfer facility:	No
Used oil transporter:	No

Violation Status: No violations found

B10 SSW 1/8-1/4 0.146 mi. 771 ft. — **BUSTERS AUTO BODY**, **505 PROVINCE ST**, **LACONIA, NH 03246** — **RCRA NonGen / NLR**, **FINDS** — **1004751129** / **NHD986485050**

Site 6 of 7 in cluster B

Relative: Lower

Actual: 640 ft.

RCRA NonGen / NLR:

Date form received by agency:	03/06/1999
Facility name:	BUSTERS AUTO BODY
Facility address:	505 PROVINCE ST LACONIA, NH 03246
EPA ID:	NHD986485050
Mailing address:	505 PROVINCE RD PO BOX 7089 LACONIA, NH 03246
Contact:	TAB TATRO

BUSTERS AUTO BODY (Continued) **1004751129**

Contact address: 505 PROVINCE RD PO BOX 7089
LACONIA, NH 03246
Contact country: US
Contact telephone: (603) 528-5141
Contact email: Not reported
EPA Region: 01
Classification: Non-Generator
Description: Handler: Non-Generators do not presently generate hazardous waste

Handler Activities Summary:

U.S. importer of hazardous waste:	No
Mixed waste (haz. and radioactive):	No
Recycler of hazardous waste:	No
Transporter of hazardous waste:	No
Treater, storer or disposer of HW:	No
Underground injection activity:	No
On-site burner exemption:	No
Furnace exemption:	No
Used oil fuel burner:	No
Used oil processor:	No
User oil refiner:	No
Used oil fuel marketer to burner:	No
Used oil Specification marketer:	No
Used oil transfer facility:	No
Used oil transporter:	No

Historical Generators:
Date form received by agency: 09/22/1993
Facility name: BUSTERS AUTO BODY
Site name: T & V AUTO BODY
Classification: Conditionally Exempt Small Quantity Generator

Violation Status: No violations found

FINDS:

Registry ID: 110007694021

Environmental Interest/Information System
RCRAInfo is a national information system that supports the Resource Conservation and Recovery Act (RCRA) program through the tracking of events and activities related to facilities that generate, transport, and treat, store, or dispose of hazardous waste. RCRAInfo allows RCRA program staff to track the notification, permit, compliance, and corrective action activities required under RCRA.

B11 **EDR US Hist Auto Stat** **1015527498**
SSW **505 PROVINCE RD** **N/A**
1/8-1/4 **LACONIA, NH 03246**
0.146 mi.
771 ft. **Site 7 of 7 in cluster B**

Relative:
Lower

Actual:
640 ft.

EDR Historical Auto Stations:
Name: BUSTERS AUTO BODY
Year: 2002
Address: 505 PROVINCE RD

(Continued) **1015527498**

Name: BUSTERS AUTO BODY
Year: 2003
Address: 505 PROVINCE RD

Name: BUSTERS AUTO BODY
Year: 2004
Address: 505 PROVINCE RD

Name: BUSTERS AUTO BODY
Year: 2006
Address: 505 PROVINCE RD

Name: BUSTERS AUTO BODY
Year: 2007
Address: 505 PROVINCE RD

Name: BUSTERS AUTO BODY
Year: 2008
Address: 505 PROVINCE RD

Name: BUSTERS AUTO BODY
Year: 2009
Address: 505 PROVINCE RD

Name: BUSTERS AUTO BODY
Year: 2010
Address: 505 PROVINCE RD

---

12 SSW 1/8-1/4 0.154 mi. 811 ft. | **BURNS MACHINE** | **RCRA NonGen / NLR** | **1004751013**
516 PROVINCE RD | **FINDS** | **NHD986483485**
LACONIA, NH 03246

Relative: Lower

Actual: 627 ft.

RCRA NonGen / NLR:
Date form received by agency: 08/03/2005
Facility name: BURNS MACHINE
Facility address: 516 PROVINCE RD
LACONIA, NH 03246
EPA ID: NHD986483485
Contact: GLENN WELCH
Contact address: 516 PROVINCE RD
LACONIA, NH 03246
Contact country: US
Contact telephone: (603) 524-4080
Contact email: Not reported
EPA Region: 01
Classification: Non-Generator
Description: Handler: Non-Generators do not presently generate hazardous waste

Owner/Operator Summary:
Owner/operator name: ROUTE 107 INDUSTRIAL PARK
Owner/operator address: P O BOX 1345
LACONIA, NH 03246
Owner/operator country: US
Owner/operator telephone: (603) 267-8825
Legal status: Private

BURNS MACHINE (Continued) **1004751013**

Owner/Operator Type: Owner
Owner/Op start date: 05/14/2001
Owner/Op end date: Not reported

Handler Activities Summary:
U.S. importer of hazardous waste: No
Mixed waste (haz. and radioactive): No
Recycler of hazardous waste: No
Transporter of hazardous waste: No
Treater, storer or disposer of HW: No
Underground injection activity: No
On-site burner exemption: No
Furnace exemption: No
Used oil fuel burner: No
Used oil processor: No
User oil refiner: No
Used oil fuel marketer to burner: No
Used oil Specification marketer: No
Used oil transfer facility: No
Used oil transporter: No

Historical Generators:
Date form received by agency: 04/12/2000
Facility name: BURNS MACHINE
Site name: STAMPING TECHNOLOGIES
Classification: Conditionally Exempt Small Quantity Generator

Date form received by agency: 10/30/1992
Facility name: BURNS MACHINE
Classification: Conditionally Exempt Small Quantity Generator

Hazardous Waste Summary:
Waste code: D018
Waste name: BENZENE

Violation Status: No violations found

FINDS:

Registry ID: 110006550179

Environmental Interest/Information System
RCRAInfo is a national information system that supports the Resource Conservation and Recovery Act (RCRA) program through the tracking of events and activities related to facilities that generate, transport, and treat, store, or dispose of hazardous waste. RCRAInfo allows RCRA program staff to track the notification, permit, compliance, and corrective action activities required under RCRA.

C13 West 1/8-1/4 0.192 mi. 1016 ft. | **GILBERT BLOCK CO INC**
351 PROVINCE RD.
LACONIA, NH | **MANIFEST** | **S109778664**
N/A

Site 1 of 2 in cluster C

Relative: Lower

Actual: 607 ft.

CT MANIFEST:

Waste:

Manifest No:	NHG0011982
Waste Occurence:	1
UNNA:	1993
Hazard Class:	3
US Dot Description:	WASTE FLAMMABLE LIQUID, NOS
No of Containers:	001
Container Type:	TT
Quantity:	910
Weight/Volume:	P
Additional Description:	Not reported
Handling Code:	Not reported
Date Record Was Last Modified:	4/26/2004
DEO Who Last Modified Record:	IG

Waste CD:

Manifest No:	NHG0011982
Waste Occurence:	1
EPA Waste Code:	D001
Recycled Waste?:	F
Date Record Was Last Modified:	4/26/2004
DEO Who Last Modified Record:	IG

Detail:

Year:	1994
Manifest ID:	NHG0011982
TSDF EPA ID:	CTD021816889
TSDF Name:	UNITED OIL RECOVERY INC./UIS DBA ADVANCED LIQ. REC
TSDF Address:	136 GRACEY AVE.
TSDF City,St,Zip:	MERIDEN, CT 06451
TSDF Country:	USA
TSDF Telephone:	Not reported
Transport Date:	11/18/1994
Transporter EPA ID:	NHD982747073
Transporter Name:	DEPENDABLE ENVIRONMENTAL SERVICES, INC
Transporter Country:	USA
Transporter Phone:	Not reported
Trans 2 Date:	Not reported
Trans 2 EPA ID:	Not reported
Trans 2 Name:	Not reported
Trans 2 Address:	Not reported
Trans 2 City,St,Zip:	CT
Trans 2 Country:	USA
Trans 2 Phone:	Not reported
EPA ID:	NHP000008679
Generator Phone:	Not reported
Generator Mailing Addr:	351 PROVINCE RD.
Generator Mailing Town:	LACONIA
Generator Mailing State:	NH
Generator Mailing Zip:	Not reported
Generator Mailing Country:	USA

GILBERT BLOCK CO INC (Continued) **S109778664**

Special Handling:	Not reported
Discrepancies:	Not reported
Date Shipped:	11/18/1994
Date Received:	11/30/1994
Last modified date:	4/26/2004
Last modified by:	IG
Comments:	Not reported

C14 West 1/8-1/4 0.192 mi. 1016 ft. **GILBERT BLOCK CO INC** **RCRA NonGen / NLR** **1008886548**
351 PROVINCE RD **NHD510094634**
LACONIA, NH 03246

Site 2 of 2 in cluster C

Relative: Lower

Actual: 607 ft.

RCRA NonGen / NLR:

Date form received by agency:	10/20/1999
Facility name:	GILBERT BLOCK CO INC
Facility address:	351 PROVINCE RD LACONIA, NH 03246
EPA ID:	NHD510094634
Contact:	DEL GILBERT
Contact address:	351 PROVINCE RD LACONIA, NH 03246
Contact country:	US
Contact telephone:	(603) 524-1353
Contact email:	Not reported
EPA Region:	01
Classification:	Non-Generator
Description:	Handler: Non-Generators do not presently generate hazardous waste

Handler Activities Summary:

U.S. importer of hazardous waste:	No
Mixed waste (haz. and radioactive):	No
Recycler of hazardous waste:	No
Transporter of hazardous waste:	No
Treater, storer or disposer of HW:	No
Underground injection activity:	No
On-site burner exemption:	No
Furnace exemption:	No
Used oil fuel burner:	No
Used oil processor:	No
User oil refiner:	No
Used oil fuel marketer to burner:	No
Used oil Specification marketer:	No
Used oil transfer facility:	No
Used oil transporter:	No

Violation Status: No violations found

Count: 45 records.

ORPHAN SUMMARY

City	EDR ID	Site Name	Site Address	Zip	Database(s)
BELMONT	1008884746	BELKNAP MOTORS	RTE 3	03220	RCRA-NLR
LACONIA	1008884770	COLEMAN BROUGH SUBARU	RTE 3	03246	RCRA-NLR
LACONIA	1008884950	NH DOT	RTE 106	03246	RCRA-NLR
LACONIA	1008885965	IRVING OIL CORP	RTE 3	03246	RCRA-NLR
PLYMOUTH	1008886677	NH DES WMD	RTE 125	03246	RCRA-NLR
GILFORD	1008887186	HUTCHINS TRUCKING	RTE 11	03246	RCRA-NLR
BELMONT	1008887261	NH DES WMD	RTE 106	03220	RCRA-NLR
GILFORD	1008887420	FOSS ANDREW CO	RTE 11 & SCENIC DR	03246	RCRA-NLR
LACONIA	1008888340	CONTRACT MUNICIPAL SUPPLY	RTE 3	03246	RCRA-NLR
LACONIA	1008888514	AUTO SERVICE EAST	RTE 107 & PROVINCE RD	03246	RCRA-NLR
BELMONT	1008888576	PATS AUTO REPAIR	RTE 107	03220	RCRA-NLR
GILFORD	1008888636	LAKE AIRPORT AIRCRAFT NORTH	RTE 11	03246	RCRA-NLR
GILFORD	1008888733	J & L AUTO BODY	RTE 11	03246	RCRA-NLR
BELMONT	1008888763	BRITANNIA PRECISION TOOL	RTE 3	03220	RCRA-NLR
LACONIA	1008888878	CHUMLEYS	RTE 107	03246	RCRA-NLR
BELMONT	1008889427	CLEAN HARBORS LRPC HHWC	JCT RTES 106 & 140	03220	RCRA-NLR
LACONIA	1008890283	NH DES WMD	RTE 3 & 11	03246	RCRA-NLR
LACONIA	1008891268	GOVERNORS CROSSING LLC CARE OF THE	RTE 11B	03246	RCRA-NLR
MEREDITH	1008891334	RYDER TRUCK	CRNR RTE 104 & RTE 3	03246	RCRA-NLR
LACONIA	1008891762	LAKES REGION NH TECHNICAL COLLEGE	RTE 106	03246	RCRA-NLR
LACONIA	1015745581	SCOTIA TECHNOLOGY	RTE 107	03246	RCRA-NLR
BELMONT	1015745672	NEW ENGLAND FIBERGLASS	150 D W HWY	03220	RCRA-NLR
LACONIA	S105426353	LACONIA DISPOSAL GARDENS	ROUTE 11B		ALLSITES,LF
LACONIA	S105771842	ESTATE OF ALMEDA CURLEY	RTE 107 & BEAN HILL RD		ALLSITES
LACONIA	S106896943	NH COMMUNITY TECHNICAL COLLEGE	379 RTE 106		ALLSITES,LUST
LACONIA	S107447713	HAZARDOUS WASTE DUMPING	RTE 3/11 BYP		ALLSITES,HWS
BELMONT	S109774633	MC GREEVY BUICK & CADILLAC, INC.	RTE 106 PRESCOTT HILL	03246	MANIFEST
BELMONT	S109775369	BELMONT SAND & GRAVEL	RTE 140	03220	MANIFEST
BELMONT	S109775771	FREEDOM HONDA SUZUKI	138 DW HWY	03220	MANIFEST
GILFORD	S109775973	IRWIN MARINE	RTE 11 D	03246	MANIFEST
LACONIA	S109776005	N.H. DES	RTE 3 & 11	03246	MANIFEST
LACONIA	S109776500	K-MART AUTO	RTE 11	03246	MANIFEST
BELMONT	S109776644	NORTHEAST TIRE SERVICE INC	174 D W HWY	03246	MANIFEST
BELMONT	S109776645	NORTHEAST TIRE SERVICE INC.	RT 3 DW HWY	03246	MANIFEST
GILFORD	S109776734	GETTY PELEOLEUM	RTE 11 & ALTON ROAD	03246	MANIFEST
GILFORD	S109776735	GETTY PETROLEUM CORP	RTE 11 & ALTON ROAD	03246	MANIFEST
GILFORD	S109777794	GILGORD BOAT SALES	RTE. 11 B (73 WIER RD.)	03246	MANIFEST
LACONIA	S109777919	BOSTON NORTH	ROUTE 3 (BRICKYARD MOUNTAIN IN	00000	MANIFEST
GILFORD	S109778026	GUNSTOCK AREA	ROUTE 11A	03246	MANIFEST
GILFORD	S109778050	ALPINE RIDGE	AREA ROAD (OFF RTE 11A)	03246	MANIFEST
LACONIA	S109778906	AUTOMOTIVE SERVICES	RTE 107 - SUITE 7		MANIFEST
BELMONT	S109796772	MCGREEVY BUICK	RTE 106 PRESCOTT HILL	03246	MANIFEST
LACONIA	U001011441	CHRISTMAS ISLAND MOTEL	RTE 3		UST

Count: 45 records.

ORPHAN SUMMARY

City	EDR ID	Site Name	Site Address	Zip	Database(s)
LACONIA	U001557318	ROUTE 107 WAREHOUSES	RTE 107		UST
LACONIA	U003654212	FUNSPOT	RTE 3		UST

GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

To maintain currency of the following federal and state databases, EDR contacts the appropriate governmental agency on a monthly or quarterly basis, as required.

Number of Days to Update: Provides confirmation that EDR is reporting records that have been updated within 90 days from the date the government agency made the information available to the public.

STANDARD ENVIRONMENTAL RECORDS

Federal NPL site list

NPL: National Priority List

National Priorities List (Superfund). The NPL is a subset of CERCLIS and identifies over 1,200 sites for priority cleanup under the Superfund Program. NPL sites may encompass relatively large areas. As such, EDR provides polygon coverage for over 1,000 NPL site boundaries produced by EPA's Environmental Photographic Interpretation Center (EPIC) and regional EPA offices.

Date of Government Version: 02/01/2013
Date Data Arrived at EDR: 03/01/2013
Date Made Active in Reports: 03/13/2013
Number of Days to Update: 12

Source: EPA
Telephone: N/A
Last EDR Contact: 04/10/2013
Next Scheduled EDR Contact: 07/22/2013
Data Release Frequency: Quarterly

NPL Site Boundaries

Sources:

EPA's Environmental Photographic Interpretation Center (EPIC)
Telephone: 202-564-7333

EPA Region 1
Telephone 617-918-1143

EPA Region 6
Telephone: 214-655-6659

EPA Region 3
Telephone 215-814-5418

EPA Region 7
Telephone: 913-551-7247

EPA Region 4
Telephone 404-562-8033

EPA Region 8
Telephone: 303-312-6774

EPA Region 5
Telephone 312-886-6686

EPA Region 9
Telephone: 415-947-4246

EPA Region 10
Telephone 206-553-8665

Proposed NPL: Proposed National Priority List Sites

A site that has been proposed for listing on the National Priorities List through the issuance of a proposed rule in the Federal Register. EPA then accepts public comments on the site, responds to the comments, and places on the NPL those sites that continue to meet the requirements for listing.

Date of Government Version: 02/01/2013
Date Data Arrived at EDR: 03/01/2013
Date Made Active in Reports: 03/13/2013
Number of Days to Update: 12

Source: EPA
Telephone: N/A
Last EDR Contact: 04/10/2013
Next Scheduled EDR Contact: 07/22/2013
Data Release Frequency: Quarterly

NPL LIENS: Federal Superfund Liens

Federal Superfund Liens. Under the authority granted the USEPA by CERCLA of 1980, the USEPA has the authority to file liens against real property in order to recover remedial action expenditures or when the property owner received notification of potential liability. USEPA compiles a listing of filed notices of Superfund Liens.

Date of Government Version: 10/15/1991
Date Data Arrived at EDR: 02/02/1994
Date Made Active in Reports: 03/30/1994
Number of Days to Update: 56

Source: EPA
Telephone: 202-564-4267
Last EDR Contact: 08/15/2011
Next Scheduled EDR Contact: 11/28/2011
Data Release Frequency: No Update Planned

Federal Delisted NPL site list

DELISTED NPL: National Priority List Deletions

The National Oil and Hazardous Substances Pollution Contingency Plan (NCP) establishes the criteria that the EPA uses to delete sites from the NPL. In accordance with 40 CFR 300.425.(e), sites may be deleted from the NPL where no further response is appropriate.

Date of Government Version: 02/01/2013	Source: EPA
Date Data Arrived at EDR: 03/01/2013	Telephone: N/A
Date Made Active in Reports: 03/13/2013	Last EDR Contact: 04/10/2013
Number of Days to Update: 12	Next Scheduled EDR Contact: 07/22/2013
	Data Release Frequency: Quarterly

Federal CERCLIS list

CERCLIS: Comprehensive Environmental Response, Compensation, and Liability Information System

CERCLIS contains data on potentially hazardous waste sites that have been reported to the USEPA by states, municipalities, private companies and private persons, pursuant to Section 103 of the Comprehensive Environmental Response, Compensation, and Liability Act (CERCLA). CERCLIS contains sites which are either proposed to or on the National Priorities List (NPL) and sites which are in the screening and assessment phase for possible inclusion on the NPL.

Date of Government Version: 02/04/2013	Source: EPA
Date Data Arrived at EDR: 03/01/2013	Telephone: 703-412-9810
Date Made Active in Reports: 03/13/2013	Last EDR Contact: 04/05/2013
Number of Days to Update: 12	Next Scheduled EDR Contact: 06/10/2013
	Data Release Frequency: Quarterly

FEDERAL FACILITY: Federal Facility Site Information listing

A listing of National Priority List (NPL) and Base Realignment and Closure (BRAC) sites found in the Comprehensive Environmental Response, Compensation and Liability Information System (CERCLIS) Database where EPA Federal Facilities Restoration and Reuse Office is involved in cleanup activities.

Date of Government Version: 07/31/2012	Source: Environmental Protection Agency
Date Data Arrived at EDR: 10/09/2012	Telephone: 703-603-8704
Date Made Active in Reports: 12/20/2012	Last EDR Contact: 04/10/2013
Number of Days to Update: 72	Next Scheduled EDR Contact: 07/22/2013
	Data Release Frequency: Varies

Federal CERCLIS NFRAP site List

CERCLIS-NFRAP: CERCLIS No Further Remedial Action Planned

Archived sites are sites that have been removed and archived from the inventory of CERCLIS sites. Archived status indicates that, to the best of EPA's knowledge, assessment at a site has been completed and that EPA has determined no further steps will be taken to list this site on the National Priorities List (NPL), unless information indicates this decision was not appropriate or other considerations require a recommendation for listing at a later time. This decision does not necessarily mean that there is no hazard associated with a given site; it only means that, based upon available information, the location is not judged to be a potential NPL site.

Date of Government Version: 02/05/2013	Source: EPA
Date Data Arrived at EDR: 03/01/2013	Telephone: 703-412-9810
Date Made Active in Reports: 03/13/2013	Last EDR Contact: 04/05/2013
Number of Days to Update: 12	Next Scheduled EDR Contact: 03/11/2013
	Data Release Frequency: Quarterly

Federal RCRA CORRACTS facilities list

CORRACTS: Corrective Action Report

CORRACTS identifies hazardous waste handlers with RCRA corrective action activity.

Date of Government Version: 02/12/2013
Date Data Arrived at EDR: 02/21/2013
Date Made Active in Reports: 02/27/2013
Number of Days to Update: 6

Source: EPA
Telephone: 800-424-9346
Last EDR Contact: 04/03/2013
Next Scheduled EDR Contact: 07/15/2013
Data Release Frequency: Quarterly

Federal RCRA non-CORRACTS TSD facilities list

RCRA-TSDF: RCRA - Treatment, Storage and Disposal

RCRAInfo is EPA's comprehensive information system, providing access to data supporting the Resource Conservation and Recovery Act (RCRA) of 1976 and the Hazardous and Solid Waste Amendments (HSWA) of 1984. The database includes selective information on sites which generate, transport, store, treat and/or dispose of hazardous waste as defined by the Resource Conservation and Recovery Act (RCRA). Transporters are individuals or entities that move hazardous waste from the generator offsite to a facility that can recycle, treat, store, or dispose of the waste. TSDFs treat, store, or dispose of the waste.

Date of Government Version: 02/12/2013
Date Data Arrived at EDR: 02/15/2013
Date Made Active in Reports: 02/27/2013
Number of Days to Update: 12

Source: Environmental Protection Agency
Telephone: (888) 372-7341
Last EDR Contact: 04/03/2013
Next Scheduled EDR Contact: 07/15/2013
Data Release Frequency: Quarterly

Federal RCRA generators list

RCRA-LQG: RCRA - Large Quantity Generators

RCRAInfo is EPA's comprehensive information system, providing access to data supporting the Resource Conservation and Recovery Act (RCRA) of 1976 and the Hazardous and Solid Waste Amendments (HSWA) of 1984. The database includes selective information on sites which generate, transport, store, treat and/or dispose of hazardous waste as defined by the Resource Conservation and Recovery Act (RCRA). Large quantity generators (LQGs) generate over 1,000 kilograms (kg) of hazardous waste, or over 1 kg of acutely hazardous waste per month.

Date of Government Version: 02/12/2013
Date Data Arrived at EDR: 02/15/2013
Date Made Active in Reports: 02/27/2013
Number of Days to Update: 12

Source: Environmental Protection Agency
Telephone: (888) 372-7341
Last EDR Contact: 04/03/2013
Next Scheduled EDR Contact: 07/15/2013
Data Release Frequency: Quarterly

RCRA-SQG: RCRA - Small Quantity Generators

RCRAInfo is EPA's comprehensive information system, providing access to data supporting the Resource Conservation and Recovery Act (RCRA) of 1976 and the Hazardous and Solid Waste Amendments (HSWA) of 1984. The database includes selective information on sites which generate, transport, store, treat and/or dispose of hazardous waste as defined by the Resource Conservation and Recovery Act (RCRA). Small quantity generators (SQGs) generate between 100 kg and 1,000 kg of hazardous waste per month.

Date of Government Version: 02/12/2013
Date Data Arrived at EDR: 02/15/2013
Date Made Active in Reports: 02/27/2013
Number of Days to Update: 12

Source: Environmental Protection Agency
Telephone: (888) 372-7341
Last EDR Contact: 04/03/2013
Next Scheduled EDR Contact: 07/15/2013
Data Release Frequency: Quarterly

RCRA-CESQG: RCRA - Conditionally Exempt Small Quantity Generators

RCRAInfo is EPA's comprehensive information system, providing access to data supporting the Resource Conservation and Recovery Act (RCRA) of 1976 and the Hazardous and Solid Waste Amendments (HSWA) of 1984. The database includes selective information on sites which generate, transport, store, treat and/or dispose of hazardous waste as defined by the Resource Conservation and Recovery Act (RCRA). Conditionally exempt small quantity generators (CESQGs) generate less than 100 kg of hazardous waste, or less than 1 kg of acutely hazardous waste per month.

Date of Government Version: 02/12/2013
Date Data Arrived at EDR: 02/15/2013
Date Made Active in Reports: 02/27/2013
Number of Days to Update: 12

Source: Environmental Protection Agency
Telephone: (888) 372-7341
Last EDR Contact: 04/03/2013
Next Scheduled EDR Contact: 07/15/2013
Data Release Frequency: Varies

Federal institutional controls / engineering controls registries

US ENG CONTROLS: Engineering Controls Sites List

A listing of sites with engineering controls in place. Engineering controls include various forms of caps, building foundations, liners, and treatment methods to create pathway elimination for regulated substances to enter environmental media or effect human health.

Date of Government Version: 12/19/2012
Date Data Arrived at EDR: 12/26/2012
Date Made Active in Reports: 02/27/2013
Number of Days to Update: 63

Source: Environmental Protection Agency
Telephone: 703-603-0695
Last EDR Contact: 03/11/2013
Next Scheduled EDR Contact: 06/24/2013
Data Release Frequency: Varies

US INST CONTROL: Sites with Institutional Controls

A listing of sites with institutional controls in place. Institutional controls include administrative measures, such as groundwater use restrictions, construction restrictions, property use restrictions, and post remediation care requirements intended to prevent exposure to contaminants remaining on site. Deed restrictions are generally required as part of the institutional controls.

Date of Government Version: 12/19/2012
Date Data Arrived at EDR: 12/26/2012
Date Made Active in Reports: 02/27/2013
Number of Days to Update: 63

Source: Environmental Protection Agency
Telephone: 703-603-0695
Last EDR Contact: 03/11/2013
Next Scheduled EDR Contact: 06/24/2013
Data Release Frequency: Varies

LUCIS: Land Use Control Information System

LUCIS contains records of land use control information pertaining to the former Navy Base Realignment and Closure properties.

Date of Government Version: 12/09/2005
Date Data Arrived at EDR: 12/11/2006
Date Made Active in Reports: 01/11/2007
Number of Days to Update: 31

Source: Department of the Navy
Telephone: 843-820-7326
Last EDR Contact: 02/18/2013
Next Scheduled EDR Contact: 06/03/2013
Data Release Frequency: Varies

Federal ERNS list

ERNS: Emergency Response Notification System

Emergency Response Notification System. ERNS records and stores information on reported releases of oil and hazardous substances.

Date of Government Version: 12/31/2012
Date Data Arrived at EDR: 01/17/2013
Date Made Active in Reports: 02/15/2013
Number of Days to Update: 29

Source: National Response Center, United States Coast Guard
Telephone: 202-267-2180
Last EDR Contact: 04/02/2013
Next Scheduled EDR Contact: 07/15/2013
Data Release Frequency: Annually

State- and tribal - equivalent CERCLIS

SHWS: Listing of All Sites

State Hazardous Waste Sites. State hazardous waste site records are the states' equivalent to CERCLIS. These sites may or may not already be listed on the federal CERCLIS list. Priority sites planned for cleanup using state funds (state equivalent of Superfund) are identified along with sites where cleanup will be paid for by potentially responsible parties. Available information varies by state.

Date of Government Version: 03/13/2013
Date Data Arrived at EDR: 03/14/2013
Date Made Active in Reports: 03/29/2013
Number of Days to Update: 15

Source: Department of Environmental Services
Telephone: 603-271-2919
Last EDR Contact: 03/14/2013
Next Scheduled EDR Contact: 05/27/2013
Data Release Frequency: Quarterly

State and tribal landfill and/or solid waste disposal site lists

SWF/LF: Solid Waste Facility Information
Solid Waste Facilities/Landfill Sites. SWF/LF type records typically contain an inventory of solid waste disposal facilities or landfills in a particular state. Depending on the state, these may be active or inactive facilities or open dumps that failed to meet RCRA Subtitle D Section 4004 criteria for solid waste landfills or disposal sites.

Date of Government Version: 01/22/2013
Date Data Arrived at EDR: 01/23/2013
Date Made Active in Reports: 02/05/2013
Number of Days to Update: 13

Source: Department of Environmental Services
Telephone: 603-271-5380
Last EDR Contact: 01/21/2013
Next Scheduled EDR Contact: 05/06/2013
Data Release Frequency: Annually

State and tribal leaking storage tank lists

LUST: Listing of All Sites
Leaking Underground Storage Tank Incident Reports. LUST records contain an inventory of reported leaking underground storage tank incidents. Not all states maintain these records, and the information stored varies by state.

Date of Government Version: 03/13/2013
Date Data Arrived at EDR: 03/14/2013
Date Made Active in Reports: 03/29/2013
Number of Days to Update: 15

Source: Department of Environmental Services
Telephone: 603-271-2975
Last EDR Contact: 03/14/2013
Next Scheduled EDR Contact: 05/27/2013
Data Release Frequency: Quarterly

LAST: Listing of All Sites
Leaking Aboveground Storage Tank Incident Reports.

Date of Government Version: 03/13/2013
Date Data Arrived at EDR: 03/14/2013
Date Made Active in Reports: 03/29/2013
Number of Days to Update: 15

Source: Department of Environmental Services
Telephone: 603-271-2975
Last EDR Contact: 03/14/2013
Next Scheduled EDR Contact: 05/27/2013
Data Release Frequency: Quarterly

INDIAN LUST R10: Leaking Underground Storage Tanks on Indian Land
LUSTs on Indian land in Alaska, Idaho, Oregon and Washington.

Date of Government Version: 02/05/2013
Date Data Arrived at EDR: 02/06/2013
Date Made Active in Reports: 04/12/2013
Number of Days to Update: 65

Source: EPA Region 10
Telephone: 206-553-2857
Last EDR Contact: 10/30/2012
Next Scheduled EDR Contact: 05/13/2013
Data Release Frequency: Quarterly

INDIAN LUST R9: Leaking Underground Storage Tanks on Indian Land
LUSTs on Indian land in Arizona, California, New Mexico and Nevada

Date of Government Version: 03/01/2013
Date Data Arrived at EDR: 03/01/2013
Date Made Active in Reports: 04/12/2013
Number of Days to Update: 42

Source: Environmental Protection Agency
Telephone: 415-972-3372
Last EDR Contact: 01/28/2013
Next Scheduled EDR Contact: 05/13/2013
Data Release Frequency: Quarterly

INDIAN LUST R8: Leaking Underground Storage Tanks on Indian Land
LUSTs on Indian land in Colorado, Montana, North Dakota, South Dakota, Utah and Wyoming.

Date of Government Version: 08/27/2012
Date Data Arrived at EDR: 08/28/2012
Date Made Active in Reports: 10/16/2012
Number of Days to Update: 49

Source: EPA Region 8
Telephone: 303-312-6271
Last EDR Contact: 03/21/2013
Next Scheduled EDR Contact: 05/13/2013
Data Release Frequency: Quarterly

INDIAN LUST R7: Leaking Underground Storage Tanks on Indian Land
LUSTs on Indian land in Iowa, Kansas, and Nebraska

Date of Government Version: 12/31/2012
Date Data Arrived at EDR: 02/28/2013
Date Made Active in Reports: 04/12/2013
Number of Days to Update: 43

Source: EPA Region 7
Telephone: 913-551-7003
Last EDR Contact: 01/28/2013
Next Scheduled EDR Contact: 05/13/2013
Data Release Frequency: Varies

INDIAN LUST R4: Leaking Underground Storage Tanks on Indian Land
LUSTs on Indian land in Florida, Mississippi and North Carolina.

Date of Government Version: 02/06/2013
Date Data Arrived at EDR: 02/08/2013
Date Made Active in Reports: 04/12/2013
Number of Days to Update: 63

Source: EPA Region 4
Telephone: 404-562-8677
Last EDR Contact: 01/28/2013
Next Scheduled EDR Contact: 05/13/2013
Data Release Frequency: Semi-Annually

INDIAN LUST R1: Leaking Underground Storage Tanks on Indian Land
A listing of leaking underground storage tank locations on Indian Land.

Date of Government Version: 09/28/2012
Date Data Arrived at EDR: 11/01/2012
Date Made Active in Reports: 04/12/2013
Number of Days to Update: 162

Source: EPA Region 1
Telephone: 617-918-1313
Last EDR Contact: 02/01/2013
Next Scheduled EDR Contact: 05/13/2013
Data Release Frequency: Varies

INDIAN LUST R6: Leaking Underground Storage Tanks on Indian Land
LUSTs on Indian land in New Mexico and Oklahoma.

Date of Government Version: 09/12/2011
Date Data Arrived at EDR: 09/13/2011
Date Made Active in Reports: 11/11/2011
Number of Days to Update: 59

Source: EPA Region 6
Telephone: 214-665-6597
Last EDR Contact: 03/21/2013
Next Scheduled EDR Contact: 05/13/2013
Data Release Frequency: Varies

State and tribal registered storage tank lists

UST: Underground Storage Tank Registration Data
Registered Underground Storage Tanks. UST's are regulated under Subtitle I of the Resource Conservation and Recovery Act (RCRA) and must be registered with the state department responsible for administering the UST program. Available information varies by state program.

Date of Government Version: 12/14/2012
Date Data Arrived at EDR: 12/14/2012
Date Made Active in Reports: 02/04/2013
Number of Days to Update: 52

Source: Department of Environmental Services
Telephone: 603-271-2975
Last EDR Contact: 03/14/2013
Next Scheduled EDR Contact: 05/27/2013
Data Release Frequency: Quarterly

AST: Registered Aboveground Petroleum Storage Tank Database
Registered Aboveground Storage Tanks.

Date of Government Version: 12/14/2012
Date Data Arrived at EDR: 12/14/2012
Date Made Active in Reports: 01/17/2013
Number of Days to Update: 34

Source: Department of Environmental Services
Telephone: 603-271-6058
Last EDR Contact: 03/14/2013
Next Scheduled EDR Contact: 05/27/2013
Data Release Frequency: Quarterly

INDIAN UST R6: Underground Storage Tanks on Indian Land
The Indian Underground Storage Tank (UST) database provides information about underground storage tanks on Indian land in EPA Region 6 (Louisiana, Arkansas, Oklahoma, New Mexico, Texas and 65 Tribes).

Date of Government Version: 05/10/2011
Date Data Arrived at EDR: 05/11/2011
Date Made Active in Reports: 06/14/2011
Number of Days to Update: 34

Source: EPA Region 6
Telephone: 214-665-7591
Last EDR Contact: 03/21/2013
Next Scheduled EDR Contact: 05/13/2013
Data Release Frequency: Semi-Annually

INDIAN UST R5: Underground Storage Tanks on Indian Land

The Indian Underground Storage Tank (UST) database provides information about underground storage tanks on Indian land in EPA Region 5 (Michigan, Minnesota and Wisconsin and Tribal Nations).

Date of Government Version: 08/02/2012
Date Data Arrived at EDR: 08/03/2012
Date Made Active in Reports: 11/05/2012
Number of Days to Update: 94

Source: EPA Region 5
Telephone: 312-886-6136
Last EDR Contact: 03/19/2013
Next Scheduled EDR Contact: 05/13/2013
Data Release Frequency: Varies

INDIAN UST R1: Underground Storage Tanks on Indian Land

The Indian Underground Storage Tank (UST) database provides information about underground storage tanks on Indian land in EPA Region 1 (Connecticut, Maine, Massachusetts, New Hampshire, Rhode Island, Vermont and ten Tribal Nations).

Date of Government Version: 09/28/2012
Date Data Arrived at EDR: 11/07/2012
Date Made Active in Reports: 04/12/2013
Number of Days to Update: 156

Source: EPA, Region 1
Telephone: 617-918-1313
Last EDR Contact: 02/01/2013
Next Scheduled EDR Contact: 05/13/2013
Data Release Frequency: Varies

INDIAN UST R4: Underground Storage Tanks on Indian Land

The Indian Underground Storage Tank (UST) database provides information about underground storage tanks on Indian land in EPA Region 4 (Alabama, Florida, Georgia, Kentucky, Mississippi, North Carolina, South Carolina, Tennessee and Tribal Nations)

Date of Government Version: 02/06/2013
Date Data Arrived at EDR: 02/08/2013
Date Made Active in Reports: 04/12/2013
Number of Days to Update: 63

Source: EPA Region 4
Telephone: 404-562-9424
Last EDR Contact: 01/28/2013
Next Scheduled EDR Contact: 05/13/2013
Data Release Frequency: Semi-Annually

INDIAN UST R10: Underground Storage Tanks on Indian Land

The Indian Underground Storage Tank (UST) database provides information about underground storage tanks on Indian land in EPA Region 10 (Alaska, Idaho, Oregon, Washington, and Tribal Nations).

Date of Government Version: 02/05/2013
Date Data Arrived at EDR: 02/06/2013
Date Made Active in Reports: 04/12/2013
Number of Days to Update: 65

Source: EPA Region 10
Telephone: 206-553-2857
Last EDR Contact: 01/28/2013
Next Scheduled EDR Contact: 05/13/2013
Data Release Frequency: Quarterly

INDIAN UST R9: Underground Storage Tanks on Indian Land

The Indian Underground Storage Tank (UST) database provides information about underground storage tanks on Indian land in EPA Region 9 (Arizona, California, Hawaii, Nevada, the Pacific Islands, and Tribal Nations).

Date of Government Version: 02/21/2013
Date Data Arrived at EDR: 02/26/2013
Date Made Active in Reports: 04/12/2013
Number of Days to Update: 45

Source: EPA Region 9
Telephone: 415-972-3368
Last EDR Contact: 01/28/2013
Next Scheduled EDR Contact: 05/13/2013
Data Release Frequency: Quarterly

INDIAN UST R8: Underground Storage Tanks on Indian Land

The Indian Underground Storage Tank (UST) database provides information about underground storage tanks on Indian land in EPA Region 8 (Colorado, Montana, North Dakota, South Dakota, Utah, Wyoming and 27 Tribal Nations).

Date of Government Version: 08/27/2012
Date Data Arrived at EDR: 08/28/2012
Date Made Active in Reports: 10/16/2012
Number of Days to Update: 49

Source: EPA Region 8
Telephone: 303-312-6137
Last EDR Contact: 01/28/2013
Next Scheduled EDR Contact: 05/13/2013
Data Release Frequency: Quarterly

INDIAN UST R7: Underground Storage Tanks on Indian Land

The Indian Underground Storage Tank (UST) database provides information about underground storage tanks on Indian land in EPA Region 7 (Iowa, Kansas, Missouri, Nebraska, and 9 Tribal Nations).

Date of Government Version: 12/31/2012
Date Data Arrived at EDR: 02/28/2013
Date Made Active in Reports: 04/12/2013
Number of Days to Update: 43

Source: EPA Region 7
Telephone: 913-551-7003
Last EDR Contact: 01/28/2013
Next Scheduled EDR Contact: 05/13/2013
Data Release Frequency: Varies

FEMA UST: Underground Storage Tank Listing

A listing of all FEMA owned underground storage tanks.

Date of Government Version: 01/01/2010
Date Data Arrived at EDR: 02/16/2010
Date Made Active in Reports: 04/12/2010
Number of Days to Update: 55

Source: FEMA
Telephone: 202-646-5797
Last EDR Contact: 04/18/2013
Next Scheduled EDR Contact: 07/29/2013
Data Release Frequency: Varies

State and tribal institutional control / engineering control registries

Inst Control: Activity and Use Restrictions

An inventory of sites where Activity and Use Restrictions have been utilized.

Date of Government Version: 01/29/2013
Date Data Arrived at EDR: 01/30/2013
Date Made Active in Reports: 02/28/2013
Number of Days to Update: 29

Source: Department of Environmental Services
Telephone: 603-271-2659
Last EDR Contact: 01/30/2013
Next Scheduled EDR Contact: 05/13/2013
Data Release Frequency: Semi-Annually

State and tribal voluntary cleanup sites

INDIAN VCP R7: Voluntary Cleanup Priority Lisitng

A listing of voluntary cleanup priority sites located on Indian Land located in Region 7.

Date of Government Version: 03/20/2008
Date Data Arrived at EDR: 04/22/2008
Date Made Active in Reports: 05/19/2008
Number of Days to Update: 27

Source: EPA, Region 7
Telephone: 913-551-7365
Last EDR Contact: 04/20/2009
Next Scheduled EDR Contact: 07/20/2009
Data Release Frequency: Varies

INDIAN VCP R1: Voluntary Cleanup Priority Listing

A listing of voluntary cleanup priority sites located on Indian Land located in Region 1.

Date of Government Version: 09/28/2012
Date Data Arrived at EDR: 10/02/2012
Date Made Active in Reports: 10/16/2012
Number of Days to Update: 14

Source: EPA, Region 1
Telephone: 617-918-1102
Last EDR Contact: 04/05/2013
Next Scheduled EDR Contact: 07/15/2013
Data Release Frequency: Varies

VCP: Voluntary Cleanup Program Sites

The program provides comprehensive liability protections to eligible persons who voluntarily assume responsibility for the cleanup of contaminated properties. The sites on the list are ones where persons have applied to participate in the program and in most cases have been deemed eligible.

Date of Government Version: 11/14/2012
Date Data Arrived at EDR: 11/15/2012
Date Made Active in Reports: 11/29/2012
Number of Days to Update: 14

Source: Department of Environmental Services
Telephone: 603-271-2183
Last EDR Contact: 01/28/2013
Next Scheduled EDR Contact: 05/13/2013
Data Release Frequency: Varies

State and tribal Brownfields sites

BROWNFIELDS: Brownfields Sites
Sites that have benefited from one or more brownfields initiative.

Date of Government Version: 01/29/2013
Date Data Arrived at EDR: 01/30/2013
Date Made Active in Reports: 02/28/2013
Number of Days to Update: 29

Source: Department of Environmental Services
Telephone: 603-271-6422
Last EDR Contact: 01/30/2013
Next Scheduled EDR Contact: 05/13/2013
Data Release Frequency: Varies

ADDITIONAL ENVIRONMENTAL RECORDS

Local Brownfield lists

US BROWNFIELDS: A Listing of Brownfields Sites
Brownfields are real property, the expansion, redevelopment, or reuse of which may be complicated by the presence or potential presence of a hazardous substance, pollutant, or contaminant. Cleaning up and reinvesting in these properties takes development pressures off of undeveloped, open land, and both improves and protects the environment. Assessment, Cleanup and Redevelopment Exchange System (ACRES) stores information reported by EPA Brownfields grant recipients on brownfields properties assessed or cleaned up with grant funding as well as information on Targeted Brownfields Assessments performed by EPA Regions. A listing of ACRES Brownfield sites is obtained from Cleanups in My Community. Cleanups in My Community provides information on Brownfields properties for which information is reported back to EPA, as well as areas served by Brownfields grant programs.

Date of Government Version: 12/10/2012
Date Data Arrived at EDR: 12/11/2012
Date Made Active in Reports: 12/20/2012
Number of Days to Update: 9

Source: Environmental Protection Agency
Telephone: 202-566-2777
Last EDR Contact: 03/26/2013
Next Scheduled EDR Contact: 07/08/2013
Data Release Frequency: Semi-Annually

Local Lists of Landfill / Solid Waste Disposal Sites

DEBRIS REGION 9: Torres Martinez Reservation Illegal Dump Site Locations
A listing of illegal dump sites location on the Torres Martinez Indian Reservation located in eastern Riverside County and northern Imperial County, California.

Date of Government Version: 01/12/2009
Date Data Arrived at EDR: 05/07/2009
Date Made Active in Reports: 09/21/2009
Number of Days to Update: 137

Source: EPA, Region 9
Telephone: 415-947-4219
Last EDR Contact: 01/28/2013
Next Scheduled EDR Contact: 05/13/2013
Data Release Frequency: No Update Planned

ODI: Open Dump Inventory
An open dump is defined as a disposal facility that does not comply with one or more of the Part 257 or Part 258 Subtitle D Criteria.

Date of Government Version: 06/30/1985
Date Data Arrived at EDR: 08/09/2004
Date Made Active in Reports: 09/17/2004
Number of Days to Update: 39

Source: Environmental Protection Agency
Telephone: 800-424-9346
Last EDR Contact: 06/09/2004
Next Scheduled EDR Contact: N/A
Data Release Frequency: No Update Planned

SWRCY: Recycling Centers
A listing of recycling center locations in the state of New Hampshire.

Date of Government Version: 01/21/2013
Date Data Arrived at EDR: 01/22/2013
Date Made Active in Reports: 02/05/2013
Number of Days to Update: 14

Source: Department of Environmental Services
Telephone: 603-271-0675
Last EDR Contact: 01/22/2013
Next Scheduled EDR Contact: 05/06/2013
Data Release Frequency: Varies

INDIAN ODI: Report on the Status of Open Dumps on Indian Lands
Location of open dumps on Indian land.

Date of Government Version: 12/31/1998
Date Data Arrived at EDR: 12/03/2007
Date Made Active in Reports: 01/24/2008
Number of Days to Update: 52

Source: Environmental Protection Agency
Telephone: 703-308-8245
Last EDR Contact: 02/05/2013
Next Scheduled EDR Contact: 05/20/2013
Data Release Frequency: Varies

Local Lists of Hazardous waste / Contaminated Sites

US CDL: Clandestine Drug Labs
A listing of clandestine drug lab locations. The U.S. Department of Justice ("the Department") provides this web site as a public service. It contains addresses of some locations where law enforcement agencies reported they found chemicals or other items that indicated the presence of either clandestine drug laboratories or dumpsites. In most cases, the source of the entries is not the Department, and the Department has not verified the entry and does not guarantee its accuracy. Members of the public must verify the accuracy of all entries by, for example, contacting local law enforcement and local health departments.

Date of Government Version: 11/14/2012
Date Data Arrived at EDR: 12/11/2012
Date Made Active in Reports: 02/15/2013
Number of Days to Update: 66

Source: Drug Enforcement Administration
Telephone: 202-307-1000
Last EDR Contact: 03/04/2013
Next Scheduled EDR Contact: 06/17/2013
Data Release Frequency: Quarterly

ALLSITES: Site Remediation & Groundwater Hazard Inventory Listing of All Sites
Provides information on sites in New Hampshire, with activities that either have resulted in groundwater contamination or pose a potential hazard to groundwater supplies. The regulated activities and groundwater hazards include: confirmed releases of oil or hazardous materials to the soil and/or groundwater as a result of discharges, spills, and removal of underground storage tanks; underground injection wells such as floor drains, leaching galleries, and septic systems anything other than domestic wastewater; large discharges of wastewater such as domestic wastewater septic systems which are designed to discharge more than 20,000 gpd, land application of wastewater treatment facility effluent (spray irrigation, rapid infiltration basins, etc.) and unlined septage and wastewater lagoons; unpermitted hazardous waste storage facilities; landfills and other waste repositories in which groundwater quality is at risk.

Date of Government Version: 03/13/2013
Date Data Arrived at EDR: 03/14/2013
Date Made Active in Reports: 03/29/2013
Number of Days to Update: 15

Source: Department of Environmental Services
Telephone: 603-271-3503
Last EDR Contact: 03/14/2013
Next Scheduled EDR Contact: 05/27/2013
Data Release Frequency: Quarterly

CDL: Clandestine Drug Lab Listing
A listing of clandestine drug lab site locations included in the Site Remediation and Groundwater Hazard Inventory.

Date of Government Version: 03/13/2013
Date Data Arrived at EDR: 03/14/2013
Date Made Active in Reports: 03/29/2013
Number of Days to Update: 15

Source: Department of Environmental Services
Telephone: 603-271-0650
Last EDR Contact: 03/14/2013
Next Scheduled EDR Contact: 05/27/2013
Data Release Frequency: Every 4 Years

US HIST CDL: National Clandestine Laboratory Register

A listing of clandestine drug lab locations. The U.S. Department of Justice ("the Department") provides this web site as a public service. It contains addresses of some locations where law enforcement agencies reported they found chemicals or other items that indicated the presence of either clandestine drug laboratories or dumpsites. In most cases, the source of the entries is not the Department, and the Department has not verified the entry and does not guarantee its accuracy. Members of the public must verify the accuracy of all entries by, for example, contacting local law enforcement and local health departments.

Date of Government Version: 09/01/2007
Date Data Arrived at EDR: 11/19/2008
Date Made Active in Reports: 03/30/2009
Number of Days to Update: 131

Source: Drug Enforcement Administration
Telephone: 202-307-1000
Last EDR Contact: 03/23/2009
Next Scheduled EDR Contact: 06/22/2009
Data Release Frequency: No Update Planned

Local Land Records

LIENS 2: CERCLA Lien Information

A Federal CERCLA ('Superfund') lien can exist by operation of law at any site or property at which EPA has spent Superfund monies. These monies are spent to investigate and address releases and threatened releases of contamination. CERCLIS provides information as to the identity of these sites and properties.

Date of Government Version: 02/16/2012
Date Data Arrived at EDR: 03/26/2012
Date Made Active in Reports: 06/14/2012
Number of Days to Update: 80

Source: Environmental Protection Agency
Telephone: 202-564-6023
Last EDR Contact: 04/10/2013
Next Scheduled EDR Contact: 05/13/2013
Data Release Frequency: Varies

LIENS: Environmental Liens Information Listing

An Environmental Lien is a charge, security, or encumbrance upon title to a property to secure the payment of a cost, damage, debt, obligation, or duty arising out of response actions, cleanup, or other remediation of hazardous substances or petroleum products upon a property, including (but not limited to) liens imposed pursuant to CERCLA 42 USC ? 9607(1) and similar state or local laws. In other words: a lien placed upon a property s title due to an environmental condition

Date of Government Version: 02/02/2012
Date Data Arrived at EDR: 02/03/2012
Date Made Active in Reports: 02/23/2012
Number of Days to Update: 20

Source: Department of Environmental Services
Telephone: 603-271-8808
Last EDR Contact: 01/28/2013
Next Scheduled EDR Contact: 05/13/2013
Data Release Frequency: Varies

Records of Emergency Release Reports

HMIRS: Hazardous Materials Information Reporting System

Hazardous Materials Incident Report System. HMIRS contains hazardous material spill incidents reported to DOT.

Date of Government Version: 12/31/2012
Date Data Arrived at EDR: 01/03/2013
Date Made Active in Reports: 02/27/2013
Number of Days to Update: 55

Source: U.S. Department of Transportation
Telephone: 202-366-4555
Last EDR Contact: 04/02/2013
Next Scheduled EDR Contact: 07/15/2013
Data Release Frequency: Annually

NH SPILLS: Listing of All Sites

Spills reported to the Emergency Response section that are included in the All Sites database.

Date of Government Version: 03/13/2013
Date Data Arrived at EDR: 03/14/2013
Date Made Active in Reports: 03/29/2013
Number of Days to Update: 15

Source: Department of Environmental Services
Telephone: 603-271-2975
Last EDR Contact: 03/14/2013
Next Scheduled EDR Contact: 05/27/2013
Data Release Frequency: Quarterly

Other Ascertainable Records

RCRA NonGen / NLR: RCRA - Non Generators

RCRAInfo is EPA's comprehensive information system, providing access to data supporting the Resource Conservation and Recovery Act (RCRA) of 1976 and the Hazardous and Solid Waste Amendments (HSWA) of 1984. The database includes selective information on sites which generate, transport, store, treat and/or dispose of hazardous waste as defined by the Resource Conservation and Recovery Act (RCRA). Non-Generators do not presently generate hazardous waste.

Date of Government Version: 02/12/2013
Date Data Arrived at EDR: 02/15/2013
Date Made Active in Reports: 02/27/2013
Number of Days to Update: 12

Source: Environmental Protection Agency
Telephone: (888) 372-7341
Last EDR Contact: 04/03/2013
Next Scheduled EDR Contact: 07/15/2013
Data Release Frequency: Varies

DOT OPS: Incident and Accident Data

Department of Transporation, Office of Pipeline Safety Incident and Accident data.

Date of Government Version: 07/31/2012
Date Data Arrived at EDR: 08/07/2012
Date Made Active in Reports: 09/18/2012
Number of Days to Update: 42

Source: Department of Transporation, Office of Pipeline Safety
Telephone: 202-366-4595
Last EDR Contact: 02/05/2013
Next Scheduled EDR Contact: 05/20/2013
Data Release Frequency: Varies

DOD: Department of Defense Sites

This data set consists of federally owned or administered lands, administered by the Department of Defense, that have any area equal to or greater than 640 acres of the United States, Puerto Rico, and the U.S. Virgin Islands.

Date of Government Version: 12/31/2005
Date Data Arrived at EDR: 11/10/2006
Date Made Active in Reports: 01/11/2007
Number of Days to Update: 62

Source: USGS
Telephone: 888-275-8747
Last EDR Contact: 04/19/2013
Next Scheduled EDR Contact: 07/29/2013
Data Release Frequency: Semi-Annually

FUDS: Formerly Used Defense Sites

The listing includes locations of Formerly Used Defense Sites properties where the US Army Corps of Engineers is actively working or will take necessary cleanup actions.

Date of Government Version: 12/31/2011
Date Data Arrived at EDR: 02/26/2013
Date Made Active in Reports: 03/13/2013
Number of Days to Update: 15

Source: U.S. Army Corps of Engineers
Telephone: 202-528-4285
Last EDR Contact: 03/11/2013
Next Scheduled EDR Contact: 06/24/2013
Data Release Frequency: Varies

CONSENT: Superfund (CERCLA) Consent Decrees

Major legal settlements that establish responsibility and standards for cleanup at NPL (Superfund) sites. Released periodically by United States District Courts after settlement by parties to litigation matters.

Date of Government Version: 12/31/2011
Date Data Arrived at EDR: 01/15/2013
Date Made Active in Reports: 03/13/2013
Number of Days to Update: 57

Source: Department of Justice, Consent Decree Library
Telephone: Varies
Last EDR Contact: 04/01/2013
Next Scheduled EDR Contact: 07/15/2013
Data Release Frequency: Varies

ROD: Records Of Decision

Record of Decision. ROD documents mandate a permanent remedy at an NPL (Superfund) site containing technical and health information to aid in the cleanup.

Date of Government Version: 12/18/2012
Date Data Arrived at EDR: 03/13/2013
Date Made Active in Reports: 04/12/2013
Number of Days to Update: 30

Source: EPA
Telephone: 703-416-0223
Last EDR Contact: 03/13/2013
Next Scheduled EDR Contact: 06/24/2013
Data Release Frequency: Annually

UMTRA: Uranium Mill Tailings Sites

Uranium ore was mined by private companies for federal government use in national defense programs. When the mills shut down, large piles of the sand-like material (mill tailings) remain after uranium has been extracted from the ore. Levels of human exposure to radioactive materials from the piles are low; however, in some cases tailings were used as construction materials before the potential health hazards of the tailings were recognized.

Date of Government Version: 09/14/2010
Date Data Arrived at EDR: 10/07/2011
Date Made Active in Reports: 03/01/2012
Number of Days to Update: 146

Source: Department of Energy
Telephone: 505-845-0011
Last EDR Contact: 02/25/2013
Next Scheduled EDR Contact: 06/10/2013
Data Release Frequency: Varies

US MINES: Mines Master Index File

Contains all mine identification numbers issued for mines active or opened since 1971. The data also includes violation information.

Date of Government Version: 08/18/2011
Date Data Arrived at EDR: 09/08/2011
Date Made Active in Reports: 09/29/2011
Number of Days to Update: 21

Source: Department of Labor, Mine Safety and Health Administration
Telephone: 303-231-5959
Last EDR Contact: 03/06/2013
Next Scheduled EDR Contact: 06/17/2013
Data Release Frequency: Semi-Annually

TRIS: Toxic Chemical Release Inventory System

Toxic Release Inventory System. TRIS identifies facilities which release toxic chemicals to the air, water and land in reportable quantities under SARA Title III Section 313.

Date of Government Version: 12/31/2009
Date Data Arrived at EDR: 09/01/2011
Date Made Active in Reports: 01/10/2012
Number of Days to Update: 131

Source: EPA
Telephone: 202-566-0250
Last EDR Contact: 02/26/2013
Next Scheduled EDR Contact: 06/10/2013
Data Release Frequency: Annually

TSCA: Toxic Substances Control Act

Toxic Substances Control Act. TSCA identifies manufacturers and importers of chemical substances included on the TSCA Chemical Substance Inventory list. It includes data on the production volume of these substances by plant site.

Date of Government Version: 12/31/2006
Date Data Arrived at EDR: 09/29/2010
Date Made Active in Reports: 12/02/2010
Number of Days to Update: 64

Source: EPA
Telephone: 202-260-5521
Last EDR Contact: 03/28/2013
Next Scheduled EDR Contact: 07/08/2013
Data Release Frequency: Every 4 Years

FTTS: FIFRA/ TSCA Tracking System - FIFRA (Federal Insecticide, Fungicide, & Rodenticide Act)/TSCA (Toxic Substances Control Act)

FTTS tracks administrative cases and pesticide enforcement actions and compliance activities related to FIFRA, TSCA and EPCRA (Emergency Planning and Community Right-to-Know Act). To maintain currency, EDR contacts the Agency on a quarterly basis.

Date of Government Version: 04/09/2009
Date Data Arrived at EDR: 04/16/2009
Date Made Active in Reports: 05/11/2009
Number of Days to Update: 25

Source: EPA/Office of Prevention, Pesticides and Toxic Substances
Telephone: 202-566-1667
Last EDR Contact: 02/25/2013
Next Scheduled EDR Contact: 06/10/2013
Data Release Frequency: Quarterly

FTTS INSP: FIFRA/ TSCA Tracking System - FIFRA (Federal Insecticide, Fungicide, & Rodenticide Act)/TSCA (Toxic Substances Control Act)

A listing of FIFRA/TSCA Tracking System (FTTS) inspections and enforcements.

Date of Government Version: 04/09/2009
Date Data Arrived at EDR: 04/16/2009
Date Made Active in Reports: 05/11/2009
Number of Days to Update: 25

Source: EPA
Telephone: 202-566-1667
Last EDR Contact: 02/25/2013
Next Scheduled EDR Contact: 06/10/2013
Data Release Frequency: Quarterly

HIST FTTS: FIFRA/TSCA Tracking System Administrative Case Listing

A complete administrative case listing from the FIFRA/TSCA Tracking System (FTTS) for all ten EPA regions. The information was obtained from the National Compliance Database (NCDB). NCDB supports the implementation of FIFRA (Federal Insecticide, Fungicide, and Rodenticide Act) and TSCA (Toxic Substances Control Act). Some EPA regions are now closing out records. Because of that, and the fact that some EPA regions are not providing EPA Headquarters with updated records, it was decided to create a HIST FTTS database. It included records that may not be included in the newer FTTS database updates. This database is no longer updated.

Date of Government Version: 10/19/2006
Date Data Arrived at EDR: 03/01/2007
Date Made Active in Reports: 04/10/2007
Number of Days to Update: 40

Source: Environmental Protection Agency
Telephone: 202-564-2501
Last EDR Contact: 12/17/2007
Next Scheduled EDR Contact: 03/17/2008
Data Release Frequency: No Update Planned

HIST FTTS INSP: FIFRA/TSCA Tracking System Inspection & Enforcement Case Listing

A complete inspection and enforcement case listing from the FIFRA/TSCA Tracking System (FTTS) for all ten EPA regions. The information was obtained from the National Compliance Database (NCDB). NCDB supports the implementation of FIFRA (Federal Insecticide, Fungicide, and Rodenticide Act) and TSCA (Toxic Substances Control Act). Some EPA regions are now closing out records. Because of that, and the fact that some EPA regions are not providing EPA Headquarters with updated records, it was decided to create a HIST FTTS database. It included records that may not be included in the newer FTTS database updates. This database is no longer updated.

Date of Government Version: 10/19/2006
Date Data Arrived at EDR: 03/01/2007
Date Made Active in Reports: 04/10/2007
Number of Days to Update: 40

Source: Environmental Protection Agency
Telephone: 202-564-2501
Last EDR Contact: 12/17/2008
Next Scheduled EDR Contact: 03/17/2008
Data Release Frequency: No Update Planned

SSTS: Section 7 Tracking Systems

Section 7 of the Federal Insecticide, Fungicide and Rodenticide Act, as amended (92 Stat. 829) requires all registered pesticide-producing establishments to submit a report to the Environmental Protection Agency by March 1st each year. Each establishment must report the types and amounts of pesticides, active ingredients and devices being produced, and those having been produced and sold or distributed in the past year.

Date of Government Version: 12/31/2009
Date Data Arrived at EDR: 12/10/2010
Date Made Active in Reports: 02/25/2011
Number of Days to Update: 77

Source: EPA
Telephone: 202-564-4203
Last EDR Contact: 01/28/2013
Next Scheduled EDR Contact: 05/13/2013
Data Release Frequency: Annually

ICIS: Integrated Compliance Information System

The Integrated Compliance Information System (ICIS) supports the information needs of the national enforcement and compliance program as well as the unique needs of the National Pollutant Discharge Elimination System (NPDES) program.

Date of Government Version: 07/20/2011
Date Data Arrived at EDR: 11/10/2011
Date Made Active in Reports: 01/10/2012
Number of Days to Update: 61

Source: Environmental Protection Agency
Telephone: 202-564-5088
Last EDR Contact: 04/15/2013
Next Scheduled EDR Contact: 07/29/2013
Data Release Frequency: Quarterly

PADS: PCB Activity Database System

PCB Activity Database. PADS Identifies generators, transporters, commercial storers and/or brokers and disposers of PCB's who are required to notify the EPA of such activities.

Date of Government Version: 11/01/2010
Date Data Arrived at EDR: 11/10/2010
Date Made Active in Reports: 02/16/2011
Number of Days to Update: 98

Source: EPA
Telephone: 202-566-0500
Last EDR Contact: 04/19/2013
Next Scheduled EDR Contact: 07/29/2013
Data Release Frequency: Annually

MLTS: Material Licensing Tracking System

MLTS is maintained by the Nuclear Regulatory Commission and contains a list of approximately 8,100 sites which possess or use radioactive materials and which are subject to NRC licensing requirements. To maintain currency, EDR contacts the Agency on a quarterly basis.

Date of Government Version: 06/21/2011
Date Data Arrived at EDR: 07/15/2011
Date Made Active in Reports: 09/13/2011
Number of Days to Update: 60

Source: Nuclear Regulatory Commission
Telephone: 301-415-7169
Last EDR Contact: 03/11/2013
Next Scheduled EDR Contact: 06/24/2013
Data Release Frequency: Quarterly

RADINFO: Radiation Information Database

The Radiation Information Database (RADINFO) contains information about facilities that are regulated by U.S. Environmental Protection Agency (EPA) regulations for radiation and radioactivity.

Date of Government Version: 01/08/2013
Date Data Arrived at EDR: 01/09/2013
Date Made Active in Reports: 04/12/2013
Number of Days to Update: 93

Source: Environmental Protection Agency
Telephone: 202-343-9775
Last EDR Contact: 04/11/2013
Next Scheduled EDR Contact: 07/22/2013
Data Release Frequency: Quarterly

FINDS: Facility Index System/Facility Registry System

Facility Index System. FINDS contains both facility information and 'pointers' to other sources that contain more detail. EDR includes the following FINDS databases in this report: PCS (Permit Compliance System), AIRS (Aerometric Information Retrieval System), DOCKET (Enforcement Docket used to manage and track information on civil judicial enforcement cases for all environmental statutes), FURS (Federal Underground Injection Control), C-DOCKET (Criminal Docket System used to track criminal enforcement actions for all environmental statutes), FFIS (Federal Facilities Information System), STATE (State Environmental Laws and Statutes), and PADS (PCB Activity Data System).

Date of Government Version: 10/23/2011
Date Data Arrived at EDR: 12/13/2011
Date Made Active in Reports: 03/01/2012
Number of Days to Update: 79

Source: EPA
Telephone: (617) 918-1111
Last EDR Contact: 03/12/2013
Next Scheduled EDR Contact: 06/24/2013
Data Release Frequency: Quarterly

RAATS: RCRA Administrative Action Tracking System

RCRA Administration Action Tracking System. RAATS contains records based on enforcement actions issued under RCRA pertaining to major violators and includes administrative and civil actions brought by the EPA. For administration actions after September 30, 1995, data entry in the RAATS database was discontinued. EPA will retain a copy of the database for historical records. It was necessary to terminate RAATS because a decrease in agency resources made it impossible to continue to update the information contained in the database.

Date of Government Version: 04/17/1995
Date Data Arrived at EDR: 07/03/1995
Date Made Active in Reports: 08/07/1995
Number of Days to Update: 35

Source: EPA
Telephone: 202-564-4104
Last EDR Contact: 06/02/2008
Next Scheduled EDR Contact: 09/01/2008
Data Release Frequency: No Update Planned

RMP: Risk Management Plans

When Congress passed the Clean Air Act Amendments of 1990, it required EPA to publish regulations and guidance for chemical accident prevention at facilities using extremely hazardous substances. The Risk Management Program Rule (RMP Rule) was written to implement Section 112(r) of these amendments. The rule, which built upon existing industry codes and standards, requires companies of all sizes that use certain flammable and toxic substances to develop a Risk Management Program, which includes a(n): Hazard assessment that details the potential effects of an accidental release, an accident history of the last five years, and an evaluation of worst-case and alternative accidental releases; Prevention program that includes safety precautions and maintenance, monitoring, and employee training measures; and Emergency response program that spells out emergency health care, employee training measures and procedures for informing the public and response agencies (e.g the fire department) should an accident occur.

Date of Government Version: 05/08/2012
Date Data Arrived at EDR: 05/25/2012
Date Made Active in Reports: 07/10/2012
Number of Days to Update: 46

Source: Environmental Protection Agency
Telephone: 202-564-8600
Last EDR Contact: 01/28/2013
Next Scheduled EDR Contact: 05/13/2013
Data Release Frequency: Varies

BRS: Biennial Reporting System

The Biennial Reporting System is a national system administered by the EPA that collects data on the generation and management of hazardous waste. BRS captures detailed data from two groups: Large Quantity Generators (LQG) and Treatment, Storage, and Disposal Facilities.

Date of Government Version: 12/31/2011
Date Data Arrived at EDR: 02/26/2013
Date Made Active in Reports: 04/19/2013
Number of Days to Update: 52

Source: EPA/NTIS
Telephone: 800-424-9346
Last EDR Contact: 02/26/2013
Next Scheduled EDR Contact: 06/10/2013
Data Release Frequency: Biennially

DRYCLEANERS: Listing of Drycleaners

A listing of drycleaner locations in New Hampshire.

Date of Government Version: 03/26/2013
Date Data Arrived at EDR: 03/26/2013
Date Made Active in Reports: 03/29/2013
Number of Days to Update: 3

Source: Department of Environmental Services
Telephone: 603-271-2937
Last EDR Contact: 03/26/2013
Next Scheduled EDR Contact: 07/08/2013
Data Release Frequency: Quarterly

NPDES: NPDES Permit Listing

General information regarding NPDES (National Pollutant Discharge Elimination System) permits.

Date of Government Version: 03/18/2013
Date Data Arrived at EDR: 03/20/2013
Date Made Active in Reports: 03/29/2013
Number of Days to Update: 9

Source: Department of Environmental Services
Telephone: 603-271-0671
Last EDR Contact: 03/18/2013
Next Scheduled EDR Contact: 06/17/2013
Data Release Frequency: Varies

AIRS: Permitted Airs Facility Listing

A listing of permitted Airs facility locations in New Hampshire.

Date of Government Version: 06/13/2012
Date Data Arrived at EDR: 06/13/2012
Date Made Active in Reports: 07/10/2012
Number of Days to Update: 27

Source: Department of Environmental Services
Telephone: 603-271-6283
Last EDR Contact: 03/12/2013
Next Scheduled EDR Contact: 05/27/2013
Data Release Frequency: Varies

LEAD: Lead Inspection Database

The Childhood Lead Poisoning Prevention Program data of lead inspection for the state.

Date of Government Version: 10/16/2007
Date Data Arrived at EDR: 10/18/2007
Date Made Active in Reports: 11/13/2007
Number of Days to Update: 26

Source: Department of Health & Human Services, Childhood Lead Poisoning Prevention Progr
Telephone: 603-271-3854
Last EDR Contact: 02/18/2013
Next Scheduled EDR Contact: 06/03/2013
Data Release Frequency: Varies

INDIAN RESERV: Indian Reservations

This map layer portrays Indian administered lands of the United States that have any area equal to or greater than 640 acres.

Date of Government Version: 12/31/2005
Date Data Arrived at EDR: 12/08/2006
Date Made Active in Reports: 01/11/2007
Number of Days to Update: 34

Source: USGS
Telephone: 202-208-3710
Last EDR Contact: 04/19/2013
Next Scheduled EDR Contact: 07/29/2013
Data Release Frequency: Semi-Annually

SCRD DRYCLEANERS: State Coalition for Remediation of Drycleaners Listing

The State Coalition for Remediation of Drycleaners was established in 1998, with support from the U.S. EPA Office of Superfund Remediation and Technology Innovation. It is comprised of representatives of states with established drycleaner remediation programs. Currently the member states are Alabama, Connecticut, Florida, Illinois, Kansas, Minnesota, Missouri, North Carolina, Oregon, South Carolina, Tennessee, Texas, and Wisconsin.

Date of Government Version: 03/07/2011
Date Data Arrived at EDR: 03/09/2011
Date Made Active in Reports: 05/02/2011
Number of Days to Update: 54

Source: Environmental Protection Agency
Telephone: 615-532-8599
Last EDR Contact: 01/21/2013
Next Scheduled EDR Contact: 05/06/2013
Data Release Frequency: Varies

2020 COR ACTION: 2020 Corrective Action Program List

The EPA has set ambitious goals for the RCRA Corrective Action program by creating the 2020 Corrective Action Universe. This RCRA cleanup baseline includes facilities expected to need corrective action. The 2020 universe contains a wide variety of sites. Some properties are heavily contaminated while others were contaminated but have since been cleaned up. Still others have not been fully investigated yet, and may require little or no remediation. Inclusion in the 2020 Universe does not necessarily imply failure on the part of a facility to meet its RCRA obligations.

Date of Government Version: 11/11/2011
Date Data Arrived at EDR: 05/18/2012
Date Made Active in Reports: 05/25/2012
Number of Days to Update: 7

Source: Environmental Protection Agency
Telephone: 703-308-4044
Last EDR Contact: 02/15/2013
Next Scheduled EDR Contact: 05/27/2013
Data Release Frequency: Varies

US AIRS MINOR: Air Facility System Data

A listing of minor source facilities.

Date of Government Version: 11/15/2012
Date Data Arrived at EDR: 11/16/2012
Date Made Active in Reports: 02/15/2013
Number of Days to Update: 91

Source: EPA
Telephone: 202-564-5962
Last EDR Contact: 04/01/2013
Next Scheduled EDR Contact: 07/15/2013
Data Release Frequency: Annually

EPA WATCH LIST: EPA WATCH LIST

EPA maintains a "Watch List" to facilitate dialogue between EPA, state and local environmental agencies on enforcement matters relating to facilities with alleged violations identified as either significant or high priority. Being on the Watch List does not mean that the facility has actually violated the law only that an investigation by EPA or a state or local environmental agency has led those organizations to allege that an unproven violation has in fact occurred. Being on the Watch List does not represent a higher level of concern regarding the alleged violations that were detected, but instead indicates cases requiring additional dialogue between EPA, state and local agencies - primarily because of the length of time the alleged violation has gone unaddressed or unresolved.

Date of Government Version: 07/31/2012
Date Data Arrived at EDR: 08/13/2012
Date Made Active in Reports: 09/18/2012
Number of Days to Update: 36

Source: Environmental Protection Agency
Telephone: 617-520-3000
Last EDR Contact: 02/12/2013
Next Scheduled EDR Contact: 05/27/2013
Data Release Frequency: Quarterly

GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

US FIN ASSUR: Financial Assurance Information
All owners and operators of facilities that treat, store, or dispose of hazardous waste are required to provide proof that they will have sufficient funds to pay for the clean up, closure, and post-closure care of their facilities.

Date of Government Version: 11/20/2012
Date Data Arrived at EDR: 11/30/2012
Date Made Active in Reports: 02/27/2013
Number of Days to Update: 89

Source: Environmental Protection Agency
Telephone: 202-566-1917
Last EDR Contact: 02/19/2013
Next Scheduled EDR Contact: 06/03/2013
Data Release Frequency: Quarterly

PCB TRANSFORMER: PCB Transformer Registration Database
The database of PCB transformer registrations that includes all PCB registration submittals.

Date of Government Version: 02/01/2011
Date Data Arrived at EDR: 10/19/2011
Date Made Active in Reports: 01/10/2012
Number of Days to Update: 83

Source: Environmental Protection Agency
Telephone: 202-566-0517
Last EDR Contact: 02/01/2013
Next Scheduled EDR Contact: 05/13/2013
Data Release Frequency: Varies

COAL ASH DOE: Sleam-Electric Plan Operation Data
A listing of power plants that store ash in surface ponds.

Date of Government Version: 12/31/2005
Date Data Arrived at EDR: 08/07/2009
Date Made Active in Reports: 10/22/2009
Number of Days to Update: 76

Source: Department of Energy
Telephone: 202-586-8719
Last EDR Contact: 04/18/2013
Next Scheduled EDR Contact: 07/29/2013
Data Release Frequency: Varies

COAL ASH EPA: Coal Combustion Residues Surface Impoundments List
A listing of coal combustion residues surface impoundments with high hazard potential ratings.

Date of Government Version: 08/17/2010
Date Data Arrived at EDR: 01/03/2011
Date Made Active in Reports: 03/21/2011
Number of Days to Update: 77

Source: Environmental Protection Agency
Telephone: N/A
Last EDR Contact: 03/15/2013
Next Scheduled EDR Contact: 06/24/2013
Data Release Frequency: Varies

Financial Assurance 1: Financial Assurance Information Listing
Financial assurance is intended to ensure that resources are available to pay for the cost of closure, post-closure care, and corrective measures if the owner or operator of a regulated facility is unable or unwilling to pay

Date of Government Version: 01/22/2013
Date Data Arrived at EDR: 01/30/2013
Date Made Active in Reports: 02/28/2013
Number of Days to Update: 29

Source: Department of Environmental Services
Telephone: 602-271-0675
Last EDR Contact: 01/21/2013
Next Scheduled EDR Contact: 05/06/2013
Data Release Frequency: Quarterly

FEDLAND: Federal and Indian Lands
Federally and Indian administrated lands of the United States. Lands included are administrated by: Army Corps of Engineers, Bureau of Reclamation, National Wild and Scenic River, National Wildlife Refuge, Public Domain Land, Wilderness, Wilderness Study Area, Wildlife Management Area, Bureau of Indian Affairs, Bureau of Land Management, Department of Justice, Forest Service, Fish and Wildlife Service, National Park Service.

Date of Government Version: 12/31/2005
Date Data Arrived at EDR: 02/06/2006
Date Made Active in Reports: 01/11/2007
Number of Days to Update: 339

Source: U.S. Geological Survey
Telephone: 888-275-8747
Last EDR Contact: 04/19/2013
Next Scheduled EDR Contact: 07/29/2013
Data Release Frequency: N/A

Financial Assurance 2: Financial Assurance Information listing

A listing of financial assurance information for hazardous waste facilities. Financial assurance is intended to ensure that resources are available to pay for the cost of closure, post-closure care, and corrective measures if the owner or operator of a regulated facility is unable or unwilling to pay.

Date of Government Version: 01/22/2013
Date Data Arrived at EDR: 01/23/2013
Date Made Active in Reports: 02/05/2013
Number of Days to Update: 13

Source: Department of Environmental Services
Telephone: 603-271-5328
Last EDR Contact: 01/21/2013
Next Scheduled EDR Contact: 05/06/2013
Data Release Frequency: Varies

PRP: Potentially Responsible Parties

A listing of verified Potentially Responsible Parties

Date of Government Version: 12/02/2012
Date Data Arrived at EDR: 01/03/2013
Date Made Active in Reports: 03/13/2013
Number of Days to Update: 69

Source: EPA
Telephone: 202-564-6023
Last EDR Contact: 04/04/2013
Next Scheduled EDR Contact: 07/15/2013
Data Release Frequency: Quarterly

US AIRS (AFS): Aerometric Information Retrieval System Facility Subsystem (AFS)

The database is a sub-system of Aerometric Information Retrieval System (AIRS). AFS contains compliance data on air pollution point sources regulated by the U.S. EPA and/or state and local air regulatory agencies. This information comes from source reports by various stationary sources of air pollution, such as electric power plants, steel mills, factories, and universities, and provides information about the air pollutants they produce. Action, air program, air program pollutant, and general level plant data. It is used to track emissions and compliance data from industrial plants.

Date of Government Version: 11/15/2012
Date Data Arrived at EDR: 11/16/2012
Date Made Active in Reports: 02/15/2013
Number of Days to Update: 91

Source: EPA
Telephone: 202-564-5962
Last EDR Contact: 04/01/2013
Next Scheduled EDR Contact: 07/15/2013
Data Release Frequency: Annually

EDR HIGH RISK HISTORICAL RECORDS

EDR Exclusive Records

EDR MGP: EDR Proprietary Manufactured Gas Plants

The EDR Proprietary Manufactured Gas Plant Database includes records of coal gas plants (manufactured gas plants) compiled by EDR's researchers. Manufactured gas sites were used in the United States from the 1800's to 1950's to produce a gas that could be distributed and used as fuel. These plants used whale oil, rosin, coal, or a mixture of coal, oil, and water that also produced a significant amount of waste. Many of the byproducts of the gas production, such as coal tar (oily waste containing volatile and non-volatile chemicals), sludges, oils and other compounds are potentially hazardous to human health and the environment. The byproduct from this process was frequently disposed of directly at the plant site and can remain or spread slowly, serving as a continuous source of soil and groundwater contamination.

Date of Government Version: N/A
Date Data Arrived at EDR: N/A
Date Made Active in Reports: N/A
Number of Days to Update: N/A

Source: EDR, Inc.
Telephone: N/A
Last EDR Contact: N/A
Next Scheduled EDR Contact: N/A
Data Release Frequency: No Update Planned

EDR US Hist Auto Stat: EDR Exclusive Historic Gas Stations

EDR has searched selected national collections of business directories and has collected listings of potential gas station/filling station/service station sites that were available to EDR researchers. EDR's review was limited to those categories of sources that might, in EDR's opinion, include gas station/filling station/service station establishments. The categories reviewed included, but were not limited to gas, gas station, gasoline station, filling station, auto, automobile repair, auto service station, service station, etc. This database falls within a category of information EDR classifies as "High Risk Historical Records", or HRHR. EDR's HRHR effort presents unique and sometimes proprietary data about past sites and operations that typically create environmental concerns, but may not show up in current government records searches.

Date of Government Version: N/A
Date Data Arrived at EDR: N/A
Date Made Active in Reports: N/A
Number of Days to Update: N/A

Source: EDR, Inc.
Telephone: N/A
Last EDR Contact: N/A
Next Scheduled EDR Contact: N/A
Data Release Frequency: Varies

EDR US Hist Cleaners: EDR Exclusive Historic Dry Cleaners

EDR has searched selected national collections of business directories and has collected listings of potential dry cleaner sites that were available to EDR researchers. EDR's review was limited to those categories of sources that might, in EDR's opinion, include dry cleaning establishments. The categories reviewed included, but were not limited to dry cleaners, cleaners, laundry, laundromat, cleaning/laundry, wash & dry etc. This database falls within a category of information EDR classifies as "High Risk Historical Records", or HRHR. EDR's HRHR effort presents unique and sometimes proprietary data about past sites and operations that typically create environmental concerns, but may not show up in current government records searches.

Date of Government Version: N/A
Date Data Arrived at EDR: N/A
Date Made Active in Reports: N/A
Number of Days to Update: N/A

Source: EDR, Inc.
Telephone: N/A
Last EDR Contact: N/A
Next Scheduled EDR Contact: N/A
Data Release Frequency: Varies

EDR US Hist Auto Stat: EDR Proprietary Historic Gas Stations - Cole

Date of Government Version: N/A
Date Data Arrived at EDR: N/A
Date Made Active in Reports: N/A
Number of Days to Update: N/A

Source: N/A
Telephone: N/A
Last EDR Contact: N/A
Next Scheduled EDR Contact: N/A
Data Release Frequency: Varies

EDR US Hist Cleaners: EDR Proprietary Historic Dry Cleaners - Cole

Date of Government Version: N/A
Date Data Arrived at EDR: N/A
Date Made Active in Reports: N/A
Number of Days to Update: N/A

Source: N/A
Telephone: N/A
Last EDR Contact: N/A
Next Scheduled EDR Contact: N/A
Data Release Frequency: Varies

OTHER DATABASE(S)

Depending on the geographic area covered by this report, the data provided in these specialty databases may or may not be complete. For example, the existence of wetlands information data in a specific report does not mean that all wetlands in the area covered by the report are included. Moreover, the absence of any reported wetlands information does not necessarily mean that wetlands do not exist in the area covered by the report.

CT MANIFEST: Hazardous Waste Manifest Data

Facility and manifest data. Manifest is a document that lists and tracks hazardous waste from the generator through transporters to a tsd facility.

Date of Government Version: 02/18/2013
Date Data Arrived at EDR: 02/18/2013
Date Made Active in Reports: 03/21/2013
Number of Days to Update: 31

Source: Department of Energy & Environmental Protection
Telephone: 860-424-3375
Last EDR Contact: 02/18/2013
Next Scheduled EDR Contact: 06/03/2013
Data Release Frequency: Annually

NJ MANIFEST: Manifest Information

Hazardous waste manifest information.

Date of Government Version: 12/31/2011
Date Data Arrived at EDR: 07/19/2012
Date Made Active in Reports: 08/28/2012
Number of Days to Update: 40

Source: Department of Environmental Protection
Telephone: N/A
Last EDR Contact: 04/19/2013
Next Scheduled EDR Contact: 07/29/2013
Data Release Frequency: Annually

NY MANIFEST: Facility and Manifest Data
Manifest is a document that lists and tracks hazardous waste from the generator through transporters to a TSD facility.

Date of Government Version: 02/01/2013
Date Data Arrived at EDR: 02/07/2013
Date Made Active in Reports: 03/15/2013
Number of Days to Update: 36

Source: Department of Environmental Conservation
Telephone: 518-402-8651
Last EDR Contact: 02/07/2013
Next Scheduled EDR Contact: 05/20/2013
Data Release Frequency: Annually

PA MANIFEST: Manifest Information
Hazardous waste manifest information.

Date of Government Version: 12/31/2011
Date Data Arrived at EDR: 07/23/2012
Date Made Active in Reports: 09/18/2012
Number of Days to Update: 57

Source: Department of Environmental Protection
Telephone: 717-783-8990
Last EDR Contact: 01/21/2013
Next Scheduled EDR Contact: 05/06/2013
Data Release Frequency: Annually

RI MANIFEST: Manifest information
Hazardous waste manifest information

Date of Government Version: 12/31/2011
Date Data Arrived at EDR: 06/22/2012
Date Made Active in Reports: 07/31/2012
Number of Days to Update: 39

Source: Department of Environmental Management
Telephone: 401-222-2797
Last EDR Contact: 02/25/2013
Next Scheduled EDR Contact: 06/10/2013
Data Release Frequency: Annually

VT MANIFEST: Hazardous Waste Manifest Data
Hazardous waste manifest information.

Date of Government Version: 02/15/2013
Date Data Arrived at EDR: 02/21/2013
Date Made Active in Reports: 03/15/2013
Number of Days to Update: 22

Source: Department of Environmental Conservation
Telephone: 802-241-3443
Last EDR Contact: 01/21/2013
Next Scheduled EDR Contact: 05/06/2013
Data Release Frequency: Annually

WI MANIFEST: Manifest Information
Hazardous waste manifest information.

Date of Government Version: 12/31/2011
Date Data Arrived at EDR: 07/19/2012
Date Made Active in Reports: 09/27/2012
Number of Days to Update: 70

Source: Department of Natural Resources
Telephone: N/A
Last EDR Contact: 03/18/2013
Next Scheduled EDR Contact: 07/01/2013
Data Release Frequency: Annually

Oil/Gas Pipelines: This data was obtained by EDR from the USGS in 1994. It is referred to by USGS as GeoData Digital Line Graphs from 1:100,000-Scale Maps. It was extracted from the transportation category including some oil, but primarily gas pipelines.

Electric Power Transmission Line Data
Source: Rextag Strategies Corp.
Telephone: (281) 769-2247
U.S. Electric Transmission and Power Plants Systems Digital GIS Data

Sensitive Receptors: There are individuals deemed sensitive receptors due to their fragile immune systems and special sensitivity to environmental discharges. These sensitive receptors typically include the elderly, the sick, and children. While the location of all sensitive receptors cannot be determined, EDR indicates those buildings and facilities - schools, daycares, hospitals, medical centers, and nursing homes - where individuals who are sensitive receptors are likely to be located.

AHA Hospitals:
Source: American Hospital Association, Inc.
Telephone: 312-280-5991
The database includes a listing of hospitals based on the American Hospital Association's annual survey of hospitals.

Medical Centers: Provider of Services Listing
Source: Centers for Medicare & Medicaid Services
Telephone: 410-786-3000
A listing of hospitals with Medicare provider number, produced by Centers of Medicare & Medicaid Services, a federal agency within the U.S. Department of Health and Human Services.

Nursing Homes
Source: National Institutes of Health
Telephone: 301-594-6248
Information on Medicare and Medicaid certified nursing homes in the United States.

Public Schools
Source: National Center for Education Statistics
Telephone: 202-502-7300
The National Center for Education Statistics' primary database on elementary and secondary public education in the United States. It is a comprehensive, annual, national statistical database of all public elementary and secondary schools and school districts, which contains data that are comparable across all states.

Private Schools
Source: National Center for Education Statistics
Telephone: 202-502-7300
The National Center for Education Statistics' primary database on private school locations in the United States.

Daycare Centers: Child Care Facility List
Source: Department of Health & Human Services
Telephone: 603-271-4624

Flood Zone Data: This data, available in select counties across the country, was obtained by EDR in 2003 & 2011 from the Federal Emergency Management Agency (FEMA). Data depicts 100-year and 500-year flood zones as defined by FEMA.

NWI: National Wetlands Inventory. This data, available in select counties across the country, was obtained by EDR in 2002 and 2005 from the U.S. Fish and Wildlife Service.

State Wetlands Data: Wetlands Inventory
Source: Universitey of New Hampshire
Telephone: 603-862-1792

Scanned Digital USGS 7.5' Topographic Map (DRG)
Source: United States Geologic Survey
A digital raster graphic (DRG) is a scanned image of a U.S. Geological Survey topographic map. The map images are made by scanning published paper maps on high-resolution scanners. The raster image is georeferenced and fit to the Universal Transverse Mercator (UTM) projection.

STREET AND ADDRESS INFORMATION

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GEOCHECK ®- PHYSICAL SETTING SOURCE ADDENDUM

TARGET PROPERTY ADDRESS

FRANK BEAN ROAD
FRANK BEAN
LACONIA, NH 03246

TARGET PROPERTY COORDINATES

Latitude (North):	43.5116 - 43˚ 30’ 41.76’’
Longitude (West):	71.4484 - 71˚ 26’ 54.24’’
Universal Tranverse Mercator:	Zone 19
UTM X (Meters):	302089.8
UTM Y (Meters):	4820326.5
Elevation:	700 ft. above sea level

USGS TOPOGRAPHIC MAP

Target Property Map:	43071-E4 LACONIA, NH
Most Recent Revision:	1987
South Map:	43071-D4 BELMONT, NH
Most Recent Revision:	1987

EDR’s GeoCheck Physical Setting Source Addendum is provided to assist the environmental professional in forming an opinion about the impact of potential contaminant migration.

Assessment of the impact of contaminant migration generally has two principal investigative components:

1. Groundwater flow direction, and
2. Groundwater flow velocity.

Groundwater flow direction may be impacted by surface topography, hydrology, hydrogeology, characteristics of the soil, and nearby wells. Groundwater flow velocity is generally impacted by the nature of the geologic strata.

GEOCHECK® - PHYSICAL SETTING SOURCE SUMMARY

GROUNDWATER FLOW DIRECTION INFORMATION

Groundwater flow direction for a particular site is best determined by a qualified environmental professional using site-specific well data. If such data is not reasonably ascertainable, it may be necessary to rely on other sources of information, such as surface topographic information, hydrologic information, hydrogeologic data collected on nearby properties, and regional groundwater flow information (from deep aquifers).

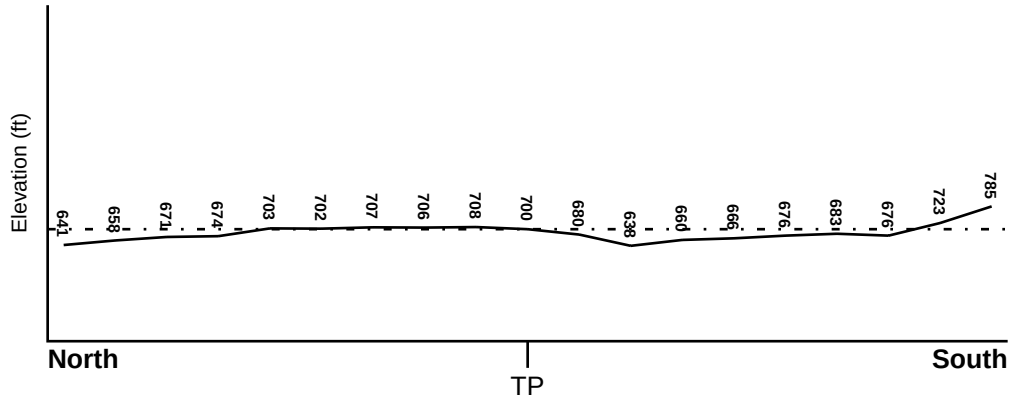
TOPOGRAPHIC INFORMATION

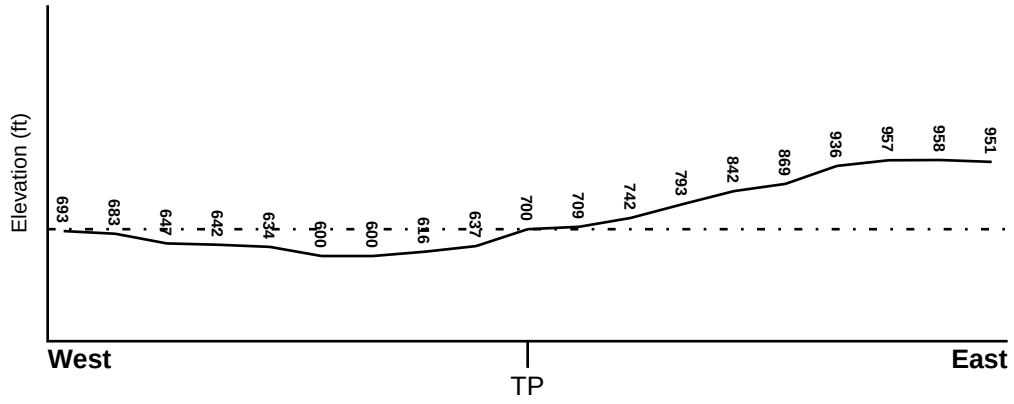
Surface topography may be indicative of the direction of surficial groundwater flow. This information can be used to assist the environmental professional in forming an opinion about the impact of nearby contaminated properties or, should contamination exist on the target property, what downgradient sites might be impacted.

TARGET PROPERTY TOPOGRAPHY

General Topographic Gradient: General WSW

SURROUNDING TOPOGRAPHY: ELEVATION PROFILES





Target Property Elevation: 700 ft.

0 1/2 1 Miles

Source: Topography has been determined from the USGS 7.5' Digital Elevation Model and should be evaluated on a relative (not an absolute) basis. Relative elevation information between sites of close proximity should be field verified.

GEOCHECK® - PHYSICAL SETTING SOURCE SUMMARY

HYDROLOGIC INFORMATION

Surface water can act as a hydrologic barrier to groundwater flow. Such hydrologic information can be used to assist the environmental professional in forming an opinion about the impact of nearby contaminated properties or, should contamination exist on the target property, what downgradient sites might be impacted.

Refer to the Physical Setting Source Map following this summary for hydrologic information (major waterways and bodies of water).

FEMA FLOOD ZONE

Target Property County	FEMA Flood Electronic Data
BELKNAP, NH	Not Available

Flood Plain Panel at Target Property: Not Reported

Additional Panels in search area: Not Reported

NATIONAL WETLAND INVENTORY

NWI Quad at Target Property	NWI Electronic Data Coverage
LACONIA	YES - refer to the Overview Map and Detail Map

HYDROGEOLOGIC INFORMATION

Hydrogeologic information obtained by installation of wells on a specific site can often be an indicator of groundwater flow direction in the immediate area. Such hydrogeologic information can be used to assist the environmental professional in forming an opinion about the impact of nearby contaminated properties or, should contamination exist on the target property, what downgradient sites might be impacted.

AQUIFLOW®

Search Radius: 1.000 Mile.

EDR has developed the AQUIFLOW Information System to provide data on the general direction of groundwater flow at specific points. EDR has reviewed reports submitted by environmental professionals to regulatory authorities at select sites and has extracted the date of the report, groundwater flow direction as determined hydrogeologically, and the depth to water table.

MAP ID	LOCATION FROM TP	GENERAL DIRECTION GROUNDWATER FLOW
Not Reported		

GEOCHECK® - PHYSICAL SETTING SOURCE SUMMARY

GROUNDWATER FLOW VELOCITY INFORMATION

Groundwater flow velocity information for a particular site is best determined by a qualified environmental professional using site specific geologic and soil strata data. If such data are not reasonably ascertainable, it may be necessary to rely on other sources of information, including geologic age identification, rock stratigraphic unit and soil characteristics data collected on nearby properties and regional soil information. In general, contaminant plumes move more quickly through sandy-gravelly types of soils than silty-clayey types of soils.

GEOLOGIC INFORMATION IN GENERAL AREA OF TARGET PROPERTY

Geologic information can be used by the environmental professional in forming an opinion about the relative speed at which contaminant migration may be occurring.

ROCK STRATIGRAPHIC UNIT

Era:	Paleozoic
System:	Devonian
Series:	Devonian
Code:	De *(decoded above as Era, System & Series)*

GEOLOGIC AGE IDENTIFICATION

Category: Eugeosynclinal Deposits

Geologic Age and Rock Stratigraphic Unit Source: P.G. Schruben, R.E. Arndt and W.J. Bawiec, Geology of the Conterminous U.S. at 1:2,500,000 Scale - a digital representation of the 1974 P.B. King and H.M. Beikman Map, USGS Digital Data Series DDS - 11 (1994).

DOMINANT SOIL COMPOSITION IN GENERAL AREA OF TARGET PROPERTY

The U.S. Department of Agriculture's (USDA) Soil Conservation Service (SCS) leads the National Cooperative Soil Survey (NCSS) and is responsible for collecting, storing, maintaining and distributing soil survey information for privately owned lands in the United States. A soil map in a soil survey is a representation of soil patterns in a landscape. Soil maps for STATSGO are compiled by generalizing more detailed (SSURGO) soil survey maps. The following information is based on Soil Conservation Service STATSGO data.

Soil Component Name:	COLTON
Soil Surface Texture:	gravelly - sandy loam
Hydrologic Group:	Class A - High infiltration rates. Soils are deep, well drained to excessively drained sands and gravels.
Soil Drainage Class:	Excessively. Soils have very high and high hydraulic conductivity and low water holding capacity. Depth to water table is more than 6 feet.

Hydric Status: Soil does not meet the requirements for a hydric soil.

Corrosion Potential - Uncoated Steel:	LOW
Depth to Bedrock Min:	> 60 inches
Depth to Bedrock Max:	> 60 inches

GEOCHECK® - PHYSICAL SETTING SOURCE SUMMARY

Soil Layer Information							
	Boundary			Classification			
Layer	Upper	Lower	Soil Texture Class	AASHTO Group	Unified Soil	Permeability Rate (in/hr)	Soil Reaction (pH)
1	0 inches	8 inches	gravelly - sandy loam	Granular materials (35 pct. or less passing No. 200), Silty, or Clayey Gravel and Sand.	COARSE-GRAINED SOILS, Sands, Sands with fines, Silty Sand.	Max: 20.00 Min: 6.00	Max: 6.00 Min: 3.60
2	8 inches	9 inches	gravelly - coarse sandy loam	Granular materials (35 pct. or less passing No. 200), Stone Fragments, Gravel and Sand.	COARSE-GRAINED SOILS, Gravels, Gravels with fines, Silty Gravel	Max: 20.00 Min: 6.00	Max: 6.00 Min: 3.60
3	9 inches	22 inches	gravelly - loamy fine sand	Granular materials (35 pct. or less passing No. 200), Stone Fragments, Gravel and Sand.	COARSE-GRAINED SOILS, Sands, Sands with fines, Silty Sand.	Max: 20.00 Min: 6.00	Max: 6.00 Min: 3.60
4	22 inches	72 inches	very gravelly - loamy sand	Granular materials (35 pct. or less passing No. 200), Stone Fragments, Gravel and Sand.	COARSE-GRAINED SOILS, Gravels, Clean gravels, Poorly Graded Gravel.	Max: 20.00 Min: 20.00	Max: 6.50 Min: 4.50

OTHER SOIL TYPES IN AREA

Based on Soil Conservation Service STATSGO data, the following additional subordinant soil types may appear within the general area of target property.

Soil Surface Textures: loamy sand
very stony - fine sandy loam
silt loam
fine sandy loam
mucky-peat
muck
unweathered bedrock

Surficial Soil Types: loamy sand
very stony - fine sandy loam
silt loam
fine sandy loam
mucky-peat
muck
unweathered bedrock

Shallow Soil Types: loamy sand

silt loam
loamy fine sand

Deeper Soil Types: fine sand
loamy sand
stratified
mucky-peat
sand
fine sandy loam
unweathered bedrock

LOCAL / REGIONAL WATER AGENCY RECORDS

EDR Local/Regional Water Agency records provide water well information to assist the environmental professional in assessing sources that may impact ground water flow direction, and in forming an opinion about the impact of contaminant migration on nearby drinking water wells.

WELL SEARCH DISTANCE INFORMATION

DATABASE	SEARCH DISTANCE (miles)
Federal USGS	1.000
Federal FRDS PWS	Nearest PWS within 1 mile
State Database	1.000

FEDERAL USGS WELL INFORMATION

MAP ID	WELL ID	LOCATION FROM TP
1	USGS40000799446	1/4 - 1/2 Mile WNW
A3	USGS40000799488	1/4 - 1/2 Mile North
B5	USGS40000799491	1/4 - 1/2 Mile NNE
C7	USGS40000799441	1/4 - 1/2 Mile East
D8	USGS40000799503	1/4 - 1/2 Mile NNW
E10	USGS40000799458	1/4 - 1/2 Mile ENE
12	USGS40000799333	1/2 - 1 Mile South
F15	USGS40000799307	1/2 - 1 Mile South
H17	USGS40000799440	1/2 - 1 Mile East
H18	USGS40000799445	1/2 - 1 Mile East
G19	USGS40000799483	1/2 - 1 Mile ENE
I21	USGS40000799459	1/2 - 1 Mile WNW
F23	USGS40000799370	1/2 - 1 Mile South
G24	USGS40000799479	1/2 - 1 Mile ENE
J30	USGS40000799398	1/2 - 1 Mile ESE
K34	USGS40000799335	1/2 - 1 Mile SE
L35	USGS40000799478	1/2 - 1 Mile ENE
J37	USGS40000799387	1/2 - 1 Mile ESE
K39	USGS40000799321	1/2 - 1 Mile SE
K41	USGS40000799325	1/2 - 1 Mile SE
M43	USGS40000799263	1/2 - 1 Mile South
N44	USGS40000799306	1/2 - 1 Mile SE

GEOCHECK® - PHYSICAL SETTING SOURCE SUMMARY

FEDERAL USGS WELL INFORMATION

MAP ID	WELL ID	LOCATION FROM TP
P49	USGS40000799266	1/2 - 1 Mile SW

FEDERAL FRDS PUBLIC WATER SUPPLY SYSTEM INFORMATION

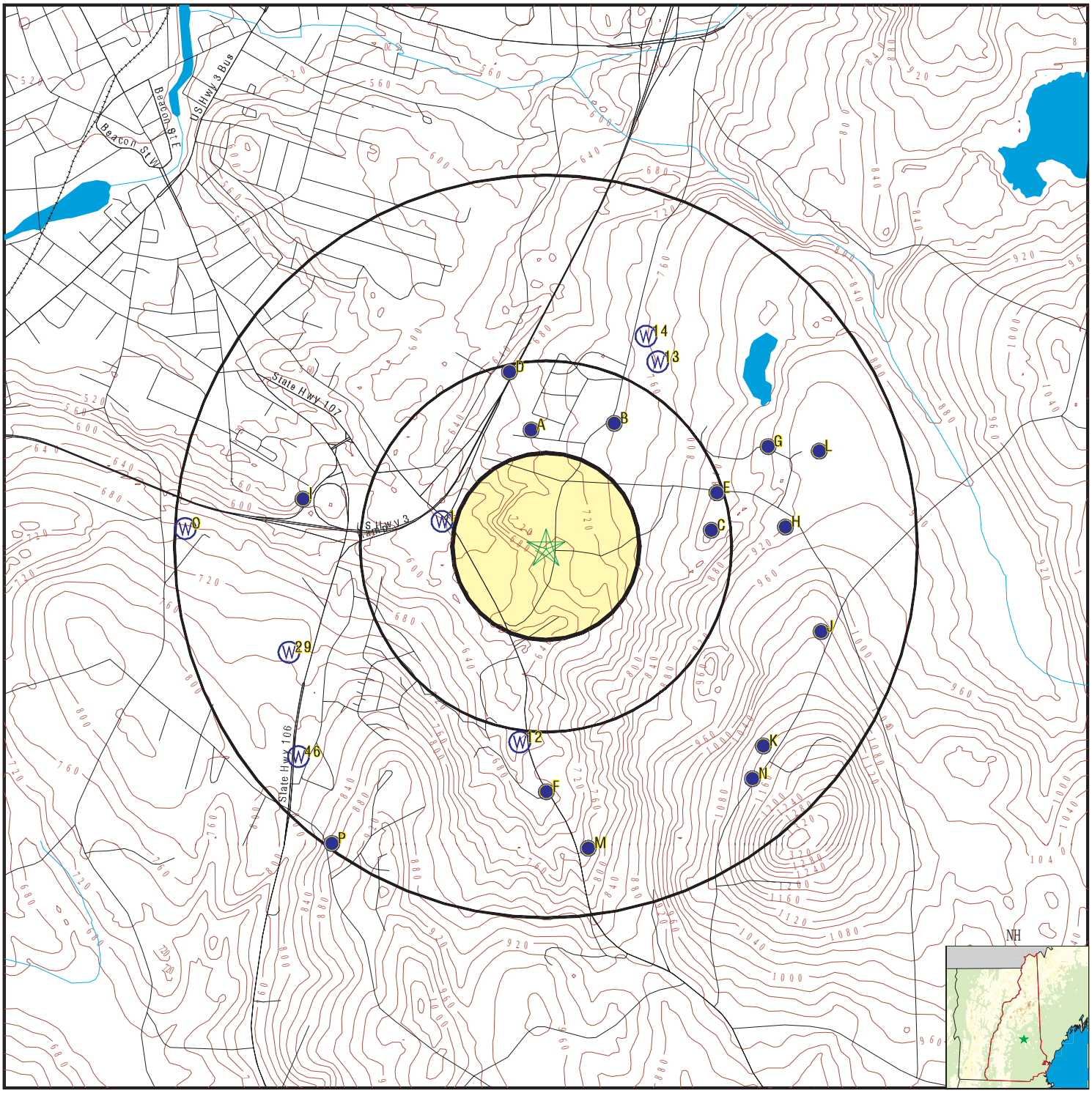
MAP ID	WELL ID	LOCATION FROM TP
I27	NH1282010	1/2 - 1 Mile West

Note: PWS System location is not always the same as well location.

STATE DATABASE WELL INFORMATION

MAP ID	WELL ID	LOCATION FROM TP
A2	NH10009989	1/4 - 1/2 Mile North
B4	NH10006673	1/4 - 1/2 Mile NNE
C6	NH10006696	1/4 - 1/2 Mile East
D9	NH10010067	1/4 - 1/2 Mile NNW
E11	NH10006852	1/4 - 1/2 Mile ENE
13	NHWS002033	1/2 - 1 Mile NNE
14	NHWS002032	1/2 - 1 Mile NNE
G16	NH10006787	1/2 - 1 Mile ENE
H20	NH10006683	1/2 - 1 Mile East
F22	NH10002750	1/2 - 1 Mile South
I25	NH10010037	1/2 - 1 Mile WNW
G26	NH10006786	1/2 - 1 Mile ENE
F28	NHWS003970	1/2 - 1 Mile South
29	NHWS004756	1/2 - 1 Mile WSW
J31	NH10006836	1/2 - 1 Mile ESE
K32	NH10006651	1/2 - 1 Mile SE
L33	NH10006857	1/2 - 1 Mile ENE
J36	NH10006810	1/2 - 1 Mile ESE
K38	NH10006866	1/2 - 1 Mile SE
K40	NH10006851	1/2 - 1 Mile SE
M42	NH10002633	1/2 - 1 Mile South
N45	NH10002580	1/2 - 1 Mile SE
46	NHWS002015	1/2 - 1 Mile SW
O47	NHWS003383	1/2 - 1 Mile West
O48	NHWS003074	1/2 - 1 Mile West
P50	NH10002583	1/2 - 1 Mile SW

PHYSICAL SETTING SOURCE MAP - 3582056.2s



County Boundary
Major Roads
Contour Lines
Earthquake epicenter, Richter 5 or greater
Water Wells
Public Water Supply Wells
Cluster of Multiple Icons

0 1/4 1/2 1 Miles

Groundwater Flow Direction
GI Indeterminate Groundwater Flow at Location
GV Groundwater Flow Varies at Location

N

SITE NAME: Frank Bean Road ADDRESS: Frank Bean Laconia NH 03246 LAT/LONG: 43.5116 / 71.4484	CLIENT: Sovereign Consulting CONTACT: Mark Henderson INQUIRY #: 3582056.2s DATE: April 22, 2013 5:51 pm

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Map ID Direction Distance Elevation	Database	EDR ID Number
1 **WNW** **1/4 - 1/2 Mile** **Lower**	**FED USGS**	**USGS40000799446**

Org. Identifier:	USGS-NH		
Formal name:	USGS New Hampshire Water Science Center		
Monloc Identifier:	USGS-433045071271601		
Monloc name:	NH-LAB 1		
Monloc type:	Well: Test hole not completed as a well		
Monloc desc:	Not Reported		
Huc code:	01070002	Drainagearea value:	Not Reported
Drainagearea Units:	Not Reported	Contrib drainagearea:	Not Reported
Contrib drainagearea units:	Not Reported	Latitude:	43.5125772
Longitude:	-71.4539617	Sourcemap scale:	24000
Horiz Acc measure:	Unknown	Horiz Acc measure units:	Unknown
Horiz Collection method:	Interpolated from map		
Horiz coord refsys:	NAD83	Vert measure val:	597
Vert measure units:	feet	Vertacc measure val:	1
Vert accmeasure units:	feet		
Vertcollection method:	Level or other surveying method		
Vert coord refsys:	NGVD29	Countrycode:	US
Aquifername:	Other aquifers		
Formation type:	Sediments, Undifferentiated, Quaternary		
Aquifer type:	Not Reported		
Construction date:	Not Reported	Welldepth:	Not Reported
Welldepth units:	Not Reported	Wellholedepth:	37.5
Wellholedepth units:	ft		

Ground-water levels, Number of Measurements: 0

A2 **North** **1/4 - 1/2 Mile** **Higher**	**NH WELLS**	**NH10009989**

Granitid:	0	Well:	192-4
Town Code:	130.0001	Elevation:	700
X Coord:	557573.8		
Y Coord:	0		
Fname:	Not Reported	Owner:	CHAMPOUX
Street #:	61	Road:	PERKINS DR
Town:	LACONIA	Map:	178
Parcel:	L8	Date completed:	01/01/1984
Use:	Domestic	Reason Built:	Replace existing
Type:	Drilled in bedrock	Depth:	250
To Bedrock:	80	Casing:	90
Yield Test Meth:	Compressed air	Yield Test Dur:	1
Discharge::	15	Water Level:	10
Date Measured:	01/01/1984	Water Quality	Not Reported
Overburden Matl:	23	Report Quality:	Fair
Locent:	1	Locacc:	4
Note:	Not Reported	Xnad83:	0
Ynad83:	0		

Map ID Direction Distance Elevation	Database	EDR ID Number
A3 **North** **1/4 - 1/2 Mile** **Lower**	**FED USGS**	**USGS40000799488**

Org. Identifier:	USGS-NH		
Formal name:	USGS New Hampshire Water Science Center		
Monloc Identifier:	USGS-433058071265901		
Monloc name:	NH-LAW 7		
Monloc type:	Well		
Monloc desc:	Not Reported		
Huc code:	01070002	Drainagearea value:	Not Reported
Drainagearea Units:	Not Reported	Contrib drainagearea:	Not Reported
Contrib drainagearea units:	Not Reported	Latitude:	43.5161883
Longitude:	-71.4492394	Sourcemap scale:	Not Reported
Horiz Acc measure:	5	Horiz Acc measure units:	seconds
Horiz Collection method:	Interpolated from map		
Horiz coord refsys:	NAD83	Vert measure val:	700
Vert measure units:	feet	Vertacc measure val:	10
Vert accmeasure units:	feet		
Vertcollection method:	Interpolated from topographic map		
Vert coord refsys:	NGVD29	Countrycode:	US
Aquifername:	Not Reported		
Formation type:	Bedrock		
Aquifer type:	Not Reported		
Construction date:	19840000	Welldepth:	250
Welldepth units:	ft	Wellholedepth:	Not Reported
Wellholedepth units:	Not Reported		

Ground-water levels, Number of Measurements: 1

Date	Feet below Surface	Feet to Sealevel
1984-01-01	10.0	

B4 **NNE** **1/4 - 1/2 Mile** **Higher**	**NH WELLS**	**NH10006673**

Granitid:	0	Well:	319-83
Town Code:	090.0047	Elevation:	740
X Coord:	558758.3		
Y Coord:	0		
Fname:	K.	Owner:	FLANDERS
Street #:	226	Road:	COUNTRY CLUB RD
Town:	GILFORD	Map:	27
Parcel:	1-18.1	Date completed:	09/03/1985
Use:	Domestic	Reason Built:	New
Type:	Drilled in bedrock	Depth:	310
To Bedrock:	75	Casing:	91
Yield Test Meth:	Compressed air	Yield Test Dur:	.5
Discharge::	10	Water Level:	-9999
Date Measured:	Not Reported	Water Quality	Not Reported
Overburden Matl:	Sand	Report Quality:	Fair
Locent:	1	Locacc:	4
Note:	Not Reported	Xnad83:	0
Ynad83:	0		

Map ID Direction Distance Elevation	Database	EDR ID Number
B5 **NNE** **1/4 - 1/2 Mile** **Higher**	**FED USGS**	**USGS40000799491**

Org. Identifier:	USGS-NH		
Formal name:	USGS New Hampshire Water Science Center		
Monloc Identifier:	USGS-433059071264301		
Monloc name:	NH-GFW 52		
Monloc type:	Well		
Monloc desc:	Not Reported		
Huc code:	01070002	Drainagearea value:	Not Reported
Drainagearea Units:	Not Reported	Contrib drainagearea:	Not Reported
Contrib drainagearea units:	Not Reported	Latitude:	43.5164661
Longitude:	-71.4447948	Sourcemap scale:	Not Reported
Horiz Acc measure:	5	Horiz Acc measure units:	seconds
Horiz Collection method:	Interpolated from map		
Horiz coord refsys:	NAD83	Vert measure val:	740
Vert measure units:	feet	Vertacc measure val:	10
Vert accmeasure units:	feet		
Vertcollection method:	Interpolated from topographic map		
Vert coord refsys:	NGVD29	Countrycode:	US
Aquifername:	Not Reported		
Formation type:	Bedrock		
Aquifer type:	Not Reported		
Construction date:	19850000	Welldepth:	310
Welldepth units:	ft	Wellholedepth:	Not Reported
Wellholedepth units:	Not Reported		

Ground-water levels, Number of Measurements: 0

C6 **East** **1/4 - 1/2 Mile** **Higher**	**NH WELLS**	**NH10006696**

Granitid:	0	Well:	20-85-006
Town Code:	090.0077	Elevation:	860
X Coord:	560121.4		
Y Coord:	0		
Fname:	J.	Owner:	APRIL
Street #:	Not Reported	Road:	COTTON HILL RD
Town:	GILFORD	Map:	34
Parcel:	1-50	Date completed:	07/12/1984
Use:	Domestic	Reason Built:	New
Type:	Drilled in bedrock	Depth:	195
To Bedrock:	3	Casing:	21
Yield Test Meth:	Compressed air	Yield Test Dur:	.5
Discharge::	10	Water Level:	0
Date Measured:	Not Reported	Water Quality	Not Reported
Overburden Matl:	Till	Report Quality:	Fair
Locent:	1	Locacc:	4
Note:	YL	Xnad83:	0
Ynad83:	0		

Map ID Direction Distance Elevation	Database	EDR ID Number
C7 **East** **1/4 - 1/2 Mile** **Higher**	**FED USGS**	**USGS40000799441**

Org. Identifier:	USGS-NH		
Formal name:	USGS New Hampshire Water Science Center		
Monloc Identifier:	USGS-433044071262401		
Monloc name:	NH-GFW 75		
Monloc type:	Well		
Monloc desc:	Not Reported		
Huc code:	01070002	Drainagearea value:	Not Reported
Drainagearea Units:	Not Reported	Contrib drainagearea:	Not Reported
Contrib drainagearea units:	Not Reported	Latitude:	43.5122995
Longitude:	-71.4395169	Sourcemap scale:	Not Reported
Horiz Acc measure:	5	Horiz Acc measure units:	seconds
Horiz Collection method:	Interpolated from map		
Horiz coord refsys:	NAD83	Vert measure val:	860
Vert measure units:	feet	Vertacc measure val:	10
Vert accmeasure units:	feet		
Vertcollection method:	Interpolated from topographic map		
Vert coord refsys:	NGVD29	Countrycode:	US
Aquifername:	Not Reported		
Formation type:	Bedrock		
Aquifer type:	Not Reported		
Construction date:	19840000	Welldepth:	195
Welldepth units:	ft	Wellholedepth:	Not Reported
Wellholedepth units:	Not Reported		

Ground-water levels, Number of Measurements: 0

D8 **NNW** **1/4 - 1/2 Mile** **Lower**	**FED USGS**	**USGS40000799503**

Org. Identifier:	USGS-NH		
Formal name:	USGS New Hampshire Water Science Center		
Monloc Identifier:	USGS-433106071270301		
Monloc name:	NH-LAA 1		
Monloc type:	Well: Test hole not completed as a well		
Monloc desc:	Not Reported		
Huc code:	01070002	Drainagearea value:	Not Reported
Drainagearea Units:	Not Reported	Contrib drainagearea:	Not Reported
Contrib drainagearea units:	Not Reported	Latitude:	43.5184104
Longitude:	-71.4503505	Sourcemap scale:	24000
Horiz Acc measure:	Unknown	Horiz Acc measure units:	Unknown
Horiz Collection method:	Interpolated from map		
Horiz coord refsys:	NAD83	Vert measure val:	680
Vert measure units:	feet	Vertacc measure val:	10
Vert accmeasure units:	feet		
Vertcollection method:	Interpolated from topographic map		
Vert coord refsys:	NGVD29	Countrycode:	US
Aquifername:	Sand and gravel aquifers (glaciated regions)		
Formation type:	Stratified Deposits, Undifferentiated		

Aquifer type:	Not Reported		
Construction date:	19901016	Welldepth:	Not Reported
Welldepth units:	Not Reported	Wellholedepth:	5
Wellholedepth units:	ft		

Ground-water levels, Number of Measurements: 0

D9
NNW
1/4 - 1/2 Mile
Lower

NH WELLS **NH10010067**

Granitid:	0	Well:	767-LAA-1
Town Code:	130.0103	Elevation:	680
X Coord:	557252.245		
Y Coord:	0		
Fname:	Not Reported	Owner:	USGS
Street #:	Not Reported	Road:	Not Reported
Town:	LACONIA	Map:	Not Reported
Parcel:	Not Reported	Date completed:	10/16/1990
Use:	Test/exploration	Reason Built:	Stratigraphic observation
Type:	Auger hole (any uncased hole)	Depth:	-9999
To Bedrock:	5	Casing:	-9999
Yield Test Meth:	Not Reported	Yield Test Dur:	-9999
Discharge::	-9999	Water Level:	-9999
Date Measured:	Not Reported	Water Quality	Not Reported
Overburden Matl:	Sand	Report Quality:	Good
Locent:	2	Locacc:	4
Note:	Not Reported	Xnad83:	0
Ynad83:	0		

E10
ENE
1/4 - 1/2 Mile
Higher

FED USGS **USGS40000799458**

Org. Identifier:	USGS-NH		
Formal name:	USGS New Hampshire Water Science Center		
Monloc Identifier:	USGS-433049071262301		
Monloc name:	NH-GFW 231		
Monloc type:	Well		
Monloc desc:	Not Reported		
Huc code:	01070002	Drainagearea value:	Not Reported
Drainagearea Units:	Not Reported	Contrib drainagearea:	Not Reported
Contrib drainagearea units:	Not Reported	Latitude:	43.5136884
Longitude:	-71.4392391	Sourcemap scale:	Not Reported
Horiz Acc measure:	5	Horiz Acc measure units:	seconds
Horiz Collection method:	Interpolated from map		
Horiz coord refsys:	NAD83	Vert measure val:	840
Vert measure units:	feet	Vertacc measure val:	10
Vert accmeasure units:	feet		
Vertcollection method:	Interpolated from topographic map		
Vert coord refsys:	NGVD29	Countrycode:	US
Aquifername:	Not Reported		
Formation type:	Bedrock		

Aquifer type:	Not Reported		
Construction date:	19900000	Welldepth:	160
Welldepth units:	ft	Wellholedepth:	Not Reported
Wellholedepth units:	Not Reported		

Ground-water levels, Number of Measurements: 1

Date	Feet below Surface	Feet to Sealevel
1990-09-19	20.0	

E11
ENE
1/4 - 1/2 Mile
Higher

NH WELLS **NH10006852**

Granitid:	0	Well:	20-90-09-061-90
Town Code:	090.0256	Elevation:	840
X Coord:	560205.4		
Y Coord:	0		
Fname:	O.	Owner:	APRIL
Street #:	212	Road:	COTTON HILL RD
Town:	GILFORD	Map:	34
Parcel:	1-50.5	Date completed:	09/18/1990
Use:	Domestic	Reason Built:	New
Type:	Drilled in bedrock	Depth:	160
To Bedrock:	7	Casing:	41
Yield Test Meth:	Compressed air	Yield Test Dur:	.5
Discharge::	20	Water Level:	20
Date Measured:	09/19/1990	Water Quality	Not Reported
Overburden Matl:	Till	Report Quality:	Fair
Locent:	1	Locacc:	4
Note:	Not Reported	Xnad83:	0
Ynad83:	0		

12
South
1/2 - 1 Mile
Lower

FED USGS **USGS40000799333**

Org. Identifier:	USGS-NH		
Formal name:	USGS New Hampshire Water Science Center		
Monloc Identifier:	USGS-433014071270101		
Monloc name:	NH-LAW 5		
Monloc type:	Well		
Monloc desc:	Not Reported		
Huc code:	01070002	Drainagearea value:	Not Reported
Drainagearea Units:	Not Reported	Contrib drainagearea:	Not Reported
Contrib drainagearea units:	Not Reported	Latitude:	43.5039662
Longitude:	-71.4497949	Sourcemap scale:	24000
Horiz Acc measure:	1	Horiz Acc measure units:	seconds
Horiz Collection method:	Interpolated from map		
Horiz coord refsys:	NAD83	Vert measure val:	660
Vert measure units:	feet	Vertacc measure val:	10
Vert accmeasure units:	feet		
Vertcollection method:	Interpolated from topographic map		
Vert coord refsys:	NGVD29	Countrycode:	US
Aquifername:	Not Reported		
Formation type:	Not Reported		

Aquifer type:	Not Reported		
Construction date:	Not Reported	Welldepth:	6.7
Welldepth units:	ft	Wellholedepth:	Not Reported
Wellholedepth units:	Not Reported		

Ground-water levels, Number of Measurements: 1

Date	Feet below Surface	Feet to Sealevel
1991-06-13	1.57	

13
NNE
1/2 - 1 Mile
Higher

NH WELLS **NHWS002033**

Masterid:	1713	Pwsid:	0887080-002
System_id:	0887080	Source:	002
Name:	PHEASANT RIDGE COUNTRY CLUB		
Address:	COUNTRY CLUB RD		
Town:	GILFORD	System_act:	Active
System_typ:	Transient, non-community	Population:	56
Source_act:	Inactive	Source_des:	DUG
Source_typ:	Groundwater	Well_depth:	0
Src_delin:	Not Reported		
Provol:	0		
Yield:	0	X_coord:	1043735.625
Y_coord:	371398.313	Longitude:	71 26 32.655
Latitude:	43 31 07.689		

14
NNE
1/2 - 1 Mile
Higher

NH WELLS **NHWS002032**

Masterid:	1713	Pwsid:	0887080-001
System_id:	0887080	Source:	001
Name:	PHEASANT RIDGE COUNTRY CLUB		
Address:	COUNTRY CLUB RD		
Town:	GILFORD	System_act:	Active
System_typ:	Transient, non-community	Population:	56
Source_act:	Active	Source_des:	BRW 1, 5' FROM EDGE OF SILO
Source_typ:	Groundwater	Well_depth:	150
Src_delin:	Not Reported		
Provol:	0		
Yield:	0	X_coord:	1043568.688
Y_coord:	371762.094	Longitude:	71 26 34.908
Latitude:	43 31 11.287		

F15
South
1/2 - 1 Mile
Lower

FED USGS **USGS40000799307**

Org. Identifier:	USGS-NH		
Formal name:	USGS New Hampshire Water Science Center		
Monloc Identifier:	USGS-433009071265601		
Monloc name:	NH-BLW 379		
Monloc type:	Well		
Monloc desc:	Field location by Water well contractor		
Huc code:	Not Reported	Drainagearea value:	Not Reported
Drainagearea Units:	Not Reported	Contrib drainagearea:	Not Reported
Contrib drainagearea units:	Not Reported	Latitude:	43.5025
Longitude:	-71.4488889	Sourcemap scale:	Not Reported
Horiz Acc measure:	1	Horiz Acc measure units:	seconds
Horiz Collection method:	Global positioning system (GPS), uncorrected		
Horiz coord refsys:	NAD83	Vert measure val:	Not Reported
Vert measure units:	Not Reported	Vertacc measure val:	Not Reported
Vert accmeasure units:	Not Reported		
Vertcollection method:	Not Reported		
Vert coord refsys:	Not Reported	Countrycode:	US
Aquifername:	Not Reported		
Formation type:	Bedrock		
Aquifer type:	Not Reported		
Construction date:	20040323	Welldepth:	325
Welldepth units:	ft	Wellholedepth:	Not Reported
Wellholedepth units:	Not Reported		

Ground-water levels, Number of Measurements: 0

G16
ENE
1/2 - 1 Mile
Higher

NH WELLS **NH10006787**

Granitid:	0	Well:	319-297
Town Code:	090.0187	Elevation:	890
X Coord:	560843.9		
Y Coord:	0		
Fname:	D.	Owner:	HOUNSELL
Street #:	35	Road:	SAND HILL RD
Town:	GILFORD	Map:	27
Parcel:	1-21.5	Date completed:	06/15/1988
Use:	Domestic	Reason Built:	New
Type:	Drilled in bedrock	Depth:	210
To Bedrock:	25	Casing:	40
Yield Test Meth:	Compressed air	Yield Test Dur:	.5
Discharge::	15	Water Level:	-9999
Date Measured:	Not Reported	Water Quality	Not Reported
Overburden Matl:	Till	Report Quality:	Fair
Locent:	1	Locacc:	4
Note:	Not Reported	Xnad83:	0
Ynad83:	0		

H17
East
1/2 - 1 Mile
Higher

FED USGS **USGS40000799440**

Org. Identifier:	USGS-NH		
Formal name:	USGS New Hampshire Water Science Center		
Monloc Identifier:	USGS-433044071261001		
Monloc name:	NH-GFW 62		
Monloc type:	Well		
Monloc desc:	Not Reported		
Huc code:	01070002	Drainagearea value:	Not Reported
Drainagearea Units:	Not Reported	Contrib drainagearea:	Not Reported
Contrib drainagearea units:	Not Reported	Latitude:	43.5122995
Longitude:	-71.4356279	Sourcemap scale:	Not Reported
Horiz Acc measure:	5	Horiz Acc measure units:	seconds
Horiz Collection method:	Interpolated from map		
Horiz coord refsys:	NAD83	Vert measure val:	920
Vert measure units:	feet	Vertacc measure val:	10
Vert accmeasure units:	feet		
Vertcollection method:	Interpolated from topographic map		
Vert coord refsys:	NGVD29	Countrycode:	US
Aquifername:	Not Reported		
Formation type:	Bedrock		
Aquifer type:	Not Reported		
Construction date:	19850000	Welldepth:	175
Welldepth units:	ft	Wellholedepth:	Not Reported
Wellholedepth units:	Not Reported		

Ground-water levels, Number of Measurements: 0

H18
East
1/2 - 1 Mile
Higher

FED USGS **USGS40000799445**

Org. Identifier:	USGS-NH		
Formal name:	USGS New Hampshire Water Science Center		
Monloc Identifier:	USGS-433045071260801		
Monloc name:	NH-GFW 275		
Monloc type:	Well		
Monloc desc:	Field location by Water well contractor		
Huc code:	Not Reported	Drainagearea value:	Not Reported
Drainagearea Units:	Not Reported	Contrib drainagearea:	Not Reported
Contrib drainagearea units:	Not Reported	Latitude:	43.5125
Longitude:	-71.4355556	Sourcemap scale:	Not Reported
Horiz Acc measure:	1	Horiz Acc measure units:	seconds
Horiz Collection method:	Global positioning system (GPS), uncorrected		
Horiz coord refsys:	NAD83	Vert measure val:	Not Reported
Vert measure units:	Not Reported	Vertacc measure val:	Not Reported
Vert accmeasure units:	Not Reported		
Vertcollection method:	Not Reported		
Vert coord refsys:	Not Reported	Countrycode:	US
Aquifername:	Not Reported		
Formation type:	Bedrock		
Aquifer type:	Not Reported		
Construction date:	20040405	Welldepth:	150
Welldepth units:	ft	Wellholedepth:	Not Reported
Wellholedepth units:	Not Reported		

Ground-water levels, Number of Measurements: 0

Map ID Direction Distance Elevation	Database	EDR ID Number
G19 **ENE** **1/2 - 1 Mile** **Higher**	**FED USGS**	**USGS40000799483**

Org. Identifier:	USGS-NH		
Formal name:	USGS New Hampshire Water Science Center		
Monloc Identifier:	USGS-433056071261401		
Monloc name:	NH-GFW 166		
Monloc type:	Well		
Monloc desc:	Not Reported		
Huc code:	01070002	Drainagearea value:	Not Reported
Drainagearea Units:	Not Reported	Contrib drainagearea:	Not Reported
Contrib drainagearea units:	Not Reported	Latitude:	43.5156328
Longitude:	-71.4367391	Sourcemap scale:	Not Reported
Horiz Acc measure:	5	Horiz Acc measure units:	seconds
Horiz Collection method:	Interpolated from map		
Horiz coord refsys:	NAD83	Vert measure val:	890
Vert measure units:	feet	Vertacc measure val:	10
Vert accmeasure units:	feet		
Vertcollection method:	Interpolated from topographic map		
Vert coord refsys:	NGVD29	Countrycode:	US
Aquifername:	Not Reported		
Formation type:	Bedrock		
Aquifer type:	Not Reported		
Construction date:	19880000	Welldepth:	210
Welldepth units:	ft	Wellholedepth:	Not Reported
Wellholedepth units:	Not Reported		

Ground-water levels, Number of Measurements: 0

H20 **East** **1/2 - 1 Mile** **Higher**	**NH WELLS**	**NH10006683**

Granitid:	0	Well:	192-1433
Town Code:	090.0060	Elevation:	920
X Coord:	561193.9		
Y Coord:	0		
Fname:	T.	Owner:	PETERS
Street #:	32	Road:	COTTON HILL RD
Town:	GILFORD	Map:	34
Parcel:	1-53.2	Date completed:	05/01/1985
Use:	Domestic	Reason Built:	New
Type:	Drilled in bedrock	Depth:	175
To Bedrock:	10	Casing:	21
Yield Test Meth:	Compressed air	Yield Test Dur:	1
Discharge::	5	Water Level:	-9999
Date Measured:	Not Reported	Water Quality	Not Reported
Overburden Matl:	Till	Report Quality:	Fair
Locent:	1	Locacc:	4
Note:	Not Reported	Xnad83:	0
Ynad83:	0		

Map ID Direction Distance Elevation	Database	EDR ID Number
I21 **WNW** **1/2 - 1 Mile** **Lower**	**FED USGS**	**USGS40000799459**

Org. Identifier:	USGS-NH		
Formal name:	USGS New Hampshire Water Science Center		
Monloc Identifier:	USGS-433049071274201		
Monloc name:	NH-LAW 54		
Monloc type:	Well		
Monloc desc:	Not Reported		
Huc code:	01070002	Drainagearea value:	Not Reported
Drainagearea Units:	Not Reported	Contrib drainagearea:	Not Reported
Contrib drainagearea units:	Not Reported	Latitude:	43.5136882
Longitude:	-71.4611841	Sourcemap scale:	Not Reported
Horiz Acc measure:	5	Horiz Acc measure units:	seconds
Horiz Collection method:	Interpolated from map		
Horiz coord refsys:	NAD83	Vert measure val:	560
Vert measure units:	feet	Vertacc measure val:	10
Vert accmeasure units:	feet		
Vertcollection method:	Interpolated from topographic map		
Vert coord refsys:	NGVD29	Countrycode:	US
Aquifername:	Not Reported		
Formation type:	Bedrock		
Aquifer type:	Not Reported		
Construction date:	19880000	Welldepth:	433
Welldepth units:	ft	Wellholedepth:	Not Reported
Wellholedepth units:	Not Reported		

Ground-water levels, Number of Measurements: 0

F22 **South** **1/2 - 1 Mile** **Lower**	**NH WELLS**	**NH10002750**	

Granitid:	0	Well:	767-BLW-85
Town Code:	021.0324	Elevation:	670
X Coord:	557931.0708		
Y Coord:	0		
Fname:	M.	Owner:	MOONEY
Street #:	Not Reported	Road:	RTE 107
Town:	BELMONT	Map:	Not Reported
Parcel:	Not Reported	Date completed:	09/13/1990
Use:	Test/exploration	Reason Built:	Monitoring
Type:	6	Depth:	50
To Bedrock:	-9999	Casing:	47.5
Yield Test Meth:	Not Reported	Yield Test Dur:	-9999
Discharge::	-9999	Water Level:	31.0499992370605
Date Measured:	11/29/1990	Water Quality	Not Reported
Overburden Matl:	1-3	Report Quality:	Good
Locent:	2	Locacc:	4
Note:	SN	Xnad83:	0
Ynad83:	0		

Map ID Direction Distance Elevation	Database	EDR ID Number
F23 **South** **1/2 - 1 Mile** **Lower**	**FED USGS**	**USGS40000799370**

Org. Identifier:	USGS-NH		
Formal name:	USGS New Hampshire Water Science Center		
Monloc Identifier:	USGS-433024071265901		
Monloc name:	NH-BLW 85		
Monloc type:	Well		
Monloc desc:	Not Reported		
Huc code:	01070002	Drainagearea value:	Not Reported
Drainagearea Units:	Not Reported	Contrib drainagearea:	Not Reported
Contrib drainagearea units:	Not Reported	Latitude:	43.5020218
Longitude:	-71.4478504	Sourcemap scale:	24000
Horiz Acc measure:	Unknown	Horiz Acc measure units:	Unknown
Horiz Collection method:	Interpolated from map		
Horiz coord refsys:	NAD83	Vert measure val:	665
Vert measure units:	feet	Vertacc measure val:	10
Vert accmeasure units:	feet		
Vertcollection method:	Interpolated from topographic map		
Vert coord refsys:	NGVD29	Countrycode:	US
Aquifername:	Sand and gravel aquifers (glaciated regions)		
Formation type:	Stratified Deposits, Undifferentiated		
Aquifer type:	Not Reported		
Construction date:	19900913	Welldepth:	50
Welldepth units:	ft	Wellholedepth:	58
Wellholedepth units:	ft		

Ground-water levels, Number of Measurements: 13

Date	Feet below Surface	Feet to Sealevel	Date	Feet below Surface	Feet to Sealevel
1991-11-05	31.67		1991-10-17	31.91	
1991-08-28	32.6		1991-07-25	32.02	
1991-07-02	31.21		1991-06-07	30.54	
1991-05-24	30.24		1991-04-30	30.54	
1991-03-26	30.96		1991-02-27	31.0	
1991-01-30	30.6		1990-12-26	31.1	
1990-11-29	31.6				

G24 **ENE** **1/2 - 1 Mile** **Higher**	**FED USGS**	**USGS40000799479**

Org. Identifier:	USGS-NH		
Formal name:	USGS New Hampshire Water Science Center		
Monloc Identifier:	USGS-433055071261201		
Monloc name:	NH-GFW 165		
Monloc type:	Well		
Monloc desc:	Not Reported		
Huc code:	01070002	Drainagearea value:	Not Reported
Drainagearea Units:	Not Reported	Contrib drainagearea:	Not Reported
Contrib drainagearea units:	Not Reported	Latitude:	43.515355
Longitude:	-71.4361835	Sourcemap scale:	Not Reported

Horiz Acc measure:	5	Horiz Acc measure units:	seconds
Horiz Collection method:	Interpolated from map		
Horiz coord refsys:	NAD83	Vert measure val:	900
Vert measure units:	feet	Vertacc measure val:	10
Vert accmeasure units:	feet		
Vertcollection method:	Interpolated from topographic map		
Vert coord refsys:	NGVD29	Countrycode:	US
Aquifername:	Not Reported		
Formation type:	Bedrock		
Aquifer type:	Not Reported		
Construction date:	19880000	Welldepth:	190
Welldepth units:	ft	Wellholedepth:	Not Reported
Wellholedepth units:	Not Reported		

Ground-water levels, Number of Measurements: 0

I25
WNW
1/2 - 1 Mile
Lower

NH WELLS **NH10010037**

Granitid:	0	Well:	20-04-132-130
Town Code:	130.0068	Elevation:	560
X Coord:	554348.7		
Y Coord:	0		
Fname:	J.	Owner:	HENRY
Street #:	Not Reported	Road:	TILTON AVE
Town:	LACONIA	Map:	3
Parcel:	1	Date completed:	04/01/1988
Use:	Domestic	Reason Built:	New
Type:	Drilled in bedrock	Depth:	433
To Bedrock:	32	Casing:	61
Yield Test Meth:	Compressed air	Yield Test Dur:	.5
Discharge::	2	Water Level:	-9999
Date Measured:	Not Reported	Water Quality	Not Reported
Overburden Matl:	Clay	Report Quality:	Fair
Locent:	1	Locacc:	4
Note:	Not Reported	Xnad83:	0
Ynad83:	0		

G26
ENE
1/2 - 1 Mile
Higher

NH WELLS **NH10006786**

Granitid:	0	Well:	319-298
Town Code:	090.0186	Elevation:	900
X Coord:	561000.6		
Y Coord:	0		
Fname:	S.	Owner:	WHALLEY
Street #:	23	Road:	SAND HILL RD
Town:	GILFORD	Map:	27
Parcel:	1-21.4	Date completed:	06/14/1988

Use:	Domestic	Reason Built:	New
Type:	Drilled in bedrock	Depth:	190
To Bedrock:	40	Casing:	60
Yield Test Meth:	Compressed air	Yield Test Dur:	.5
Discharge::	10	Water Level:	-9999
Date Measured:	Not Reported	Water Quality	Not Reported
Overburden Matl:	Till	Report Quality:	Fair
Locent:	1	Locacc:	4
Note:	Not Reported	Xnad83:	0
Ynad83:	0		

I27
West
1/2 - 1 Mile
Lower

FRDS PWS **NH1282010**

PWS ID:	NH1282010		
Date Initiated:	Not Reported	Date Deactivated:	Not Reported
PWS Name:	MOUNTAIN VIEW APARTMENTS 183 MILE HILL ROAD, PO BOX 51 LACONIA, NH 03246		
Addressee / Facility:	Mailing MOUNTAIN VIEW APARTMENTS LACONIA, NH 03246		
Facility Latitude:	43 30 46.0000	Facility Longitude:	71 27 44.0000
City Served:	LACONIA		
Treatment Class:	Untreated	Population:	100

Violations information not reported.

ENFORCEMENT INFORMATION:

Truedate:	03/31/2009	Pwsid:	NH1282010
Pwsname:	MOUNTAIN VIEW APTS		
Retpopsrvd:	100	Pwstypecod:	C
Vioid:	0000015	Contaminant:	7000
Viol. Type:	CCR Complete Failure to Report		
Complperbe:	10/19/1999 0:00:00		
Complperen:	4/2/2003 0:00:00	Enfdate:	4/2/2003 0:00:00
Enf action:	Fed Compliance Achieved		
Violmeasur:	0		

Truedate:	03/31/2009	Pwsid:	NH1282010
Pwsname:	MOUNTAIN VIEW APTS		
Retpopsrvd:	100	Pwstypecod:	C
Vioid:	0000015	Contaminant:	7000
Viol. Type:	CCR Complete Failure to Report		
Complperbe:	10/19/1999 0:00:00		
Complperen:	4/2/2003 0:00:00	Enfdate:	5/9/2000 0:00:00
Enf action:	Fed PAO Issued		
Violmeasur:	0		

Truedate:	03/31/2009	Pwsid:	NH1282010
Pwsname:	MOUNTAIN VIEW APTS		
Retpopsrvd:	100	Pwstypecod:	C
Vioid:	0400019	Contaminant:	NITRITE
Viol. Type:	3		
Complperbe:	1/1/2004 0:00:00		
Complperen:	12/31/2006 0:00:00	Enfdate:	2/23/2007 0:00:00
Enf action:	State Violation/Reminder Notice		
Violmeasur:	Not Reported		

Truedate:	03/31/2009	Pwsid:	NH1282010
Pwsname:	MOUNTAIN VIEW APTS		
Retpopsrvd:	100	Pwstypecod:	C
Vioid:	0400019	Contaminant:	NITRITE
Viol. Type:	3		
Complperbe:	1/1/2004 0:00:00		
Complperen:	12/31/2006 0:00:00	Enfdate:	5/3/2007 0:00:00
Enf action:	State Compliance Achieved		
Violmeasur:	Not Reported		

Truedate:	03/31/2009	Pwsid:	NH1282010
Pwsname:	MOUNTAIN VIEW APTS		
Retpopsrvd:	100	Pwstypecod:	C
Vioid:	0600016	Contaminant:	7000
Viol. Type:	CCR Complete Failure to Report		
Complperbe:	7/1/2006 0:00:00		
Complperen:	8/11/2006 0:00:00	Enfdate:	8/11/2006 0:00:00
Enf action:	State Compliance Achieved		
Violmeasur:	Not Reported		

Truedate:	03/31/2009	Pwsid:	NH1282010
Pwsname:	MOUNTAIN VIEW APTS		
Retpopsrvd:	100	Pwstypecod:	C
Vioid:	0600016	Contaminant:	7000
Viol. Type:	CCR Complete Failure to Report		
Complperbe:	7/1/2006 0:00:00		
Complperen:	8/11/2006 0:00:00	Enfdate:	8/4/2006 0:00:00
Enf action:	State Violation/Reminder Notice		
Violmeasur:	Not Reported		

Truedate:	03/31/2009	Pwsid:	NH1282010
Pwsname:	MOUNTAIN VIEW APTS		
Retpopsrvd:	100	Pwstypecod:	C
Vioid:	0600017	Contaminant:	1,2,4-TRICHLOROBENZENE
Viol. Type:	3		
Complperbe:	1/1/2006 0:00:00		
Complperen:	12/31/2006 0:00:00	Enfdate:	2/23/2007 0:00:00
Enf action:	State Violation/Reminder Notice		
Violmeasur:	Not Reported		

Truedate:	03/31/2009	Pwsid:	NH1282010
Pwsname:	MOUNTAIN VIEW APTS		
Retpopsrvd:	100	Pwstypecod:	C
Vioid:	0600017	Contaminant:	1,2,4-TRICHLOROBENZENE
Viol. Type:	3		
Complperbe:	1/1/2006 0:00:00		
Complperen:	12/31/2006 0:00:00	Enfdate:	5/3/2007 0:00:00
Enf action:	State Compliance Achieved		
Violmeasur:	Not Reported		

Truedate:	03/31/2009	Pwsid:	NH1282010
Pwsname:	MOUNTAIN VIEW APTS		
Retpopsrvd:	100	Pwstypecod:	C
Vioid:	0600018	Contaminant:	NITRATE
Viol. Type:	3		
Complperbe:	1/1/2006 0:00:00		
Complperen:	12/31/2006 0:00:00	Enfdate:	2/23/2007 0:00:00
Enf action:	State Violation/Reminder Notice		
Violmeasur:	Not Reported		

Truedate:	03/31/2009	Pwsid:	NH1282010
Pwsname:	MOUNTAIN VIEW APTS		
Retpopsrvd:	100	Pwstypecod:	C
Vioid:	0600018	Contaminant:	NITRATE
Viol. Type:	3		
Complperbe:	1/1/2006 0:00:00		
Complperen:	12/31/2006 0:00:00	Enfdate:	5/3/2007 0:00:00
Enf action:	State Compliance Achieved		
Violmeasur:	Not Reported		

Truedate:	03/31/2009	Pwsid:	NH1282010
Pwsname:	MOUNTAIN VIEW APTS		
Retpopsrvd:	100	Pwstypecod:	C
Vioid:	0601017	Contaminant:	CIS-1,2-DICHLOROETHYLENE
Viol. Type:	3		
Complperbe:	1/1/2006 0:00:00		
Complperen:	12/31/2006 0:00:00	Enfdate:	2/23/2007 0:00:00
Enf action:	State Violation/Reminder Notice		
Violmeasur:	Not Reported		

Truedate:	03/31/2009	Pwsid:	NH1282010
Pwsname:	MOUNTAIN VIEW APTS		
Retpopsrvd:	100	Pwstypecod:	C
Vioid:	0601017	Contaminant:	CIS-1,2-DICHLOROETHYLENE
Viol. Type:	3		
Complperbe:	1/1/2006 0:00:00		
Complperen:	12/31/2006 0:00:00	Enfdate:	5/3/2007 0:00:00
Enf action:	State Compliance Achieved		
Violmeasur:	Not Reported		

Truedate:	03/31/2009	Pwsid:	NH1282010
Pwsname:	MOUNTAIN VIEW APTS		
Retpopsrvd:	100	Pwstypecod:	C
Vioid:	0602017	Contaminant:	XYLENES, TOTAL
Viol. Type:	3		
Complperbe:	1/1/2006 0:00:00		
Complperen:	12/31/2006 0:00:00	Enfdate:	2/23/2007 0:00:00
Enf action:	State Violation/Reminder Notice		
Violmeasur:	Not Reported		

Truedate:	03/31/2009	Pwsid:	NH1282010
Pwsname:	MOUNTAIN VIEW APTS		
Retpopsrvd:	100	Pwstypecod:	C
Vioid:	0602017	Contaminant:	XYLENES, TOTAL
Viol. Type:	3		
Complperbe:	1/1/2006 0:00:00		
Complperen:	12/31/2006 0:00:00	Enfdate:	5/3/2007 0:00:00
Enf action:	State Compliance Achieved		
Violmeasur:	Not Reported		

Truedate:	03/31/2009	Pwsid:	NH1282010
Pwsname:	MOUNTAIN VIEW APTS		
Retpopsrvd:	100	Pwstypecod:	C
Vioid:	0603017	Contaminant:	METHYLENE CHLORIDE (DICHLOROMETHANE)
Viol. Type:	3		
Complperbe:	1/1/2006 0:00:00		
Complperen:	12/31/2006 0:00:00	Enfdate:	2/23/2007 0:00:00
Enf action:	State Violation/Reminder Notice		
Violmeasur:	Not Reported		

Truedate:	03/31/2009	Pwsid:	NH1282010
Pwsname:	MOUNTAIN VIEW APTS		
Retpopsrvd:	100	Pwstypecod:	C
Vioid:	0603017	Contaminant:	METHYLENE CHLORIDE (DICHLOROMETHANE)
Viol. Type:	3		
Complperbe:	1/1/2006 0:00:00		
Complperen:	12/31/2006 0:00:00	Enfdate:	5/3/2007 0:00:00
Enf action:	State Compliance Achieved		
Violmeasur:	Not Reported		

Truedate:	03/31/2009	Pwsid:	NH1282010
Pwsname:	MOUNTAIN VIEW APTS		
Retpopsrvd:	100	Pwstypecod:	C
Vioid:	0604017	Contaminant:	O-DICHLOROBENZENE
Viol. Type:	3		
Complperbe:	1/1/2006 0:00:00		
Complperen:	12/31/2006 0:00:00	Enfdate:	2/23/2007 0:00:00
Enf action:	State Violation/Reminder Notice		
Violmeasur:	Not Reported		

Truedate:	03/31/2009	Pwsid:	NH1282010
Pwsname:	MOUNTAIN VIEW APTS		
Retpopsrvd:	100	Pwstypecod:	C
Vioid:	0604017	Contaminant:	O-DICHLOROBENZENE
Viol. Type:	3		
Complperbe:	1/1/2006 0:00:00		
Complperen:	12/31/2006 0:00:00	Enfdate:	5/3/2007 0:00:00
Enf action:	State Compliance Achieved		
Violmeasur:	Not Reported		

Truedate:	03/31/2009	Pwsid:	NH1282010
Pwsname:	MOUNTAIN VIEW APTS		
Retpopsrvd:	100	Pwstypecod:	C
Vioid:	0605017	Contaminant:	P-DICHLOROBENZENE
Viol. Type:	3		
Complperbe:	1/1/2006 0:00:00		
Complperen:	12/31/2006 0:00:00	Enfdate:	2/23/2007 0:00:00
Enf action:	State Violation/Reminder Notice		
Violmeasur:	Not Reported		

Truedate:	03/31/2009	Pwsid:	NH1282010
Pwsname:	MOUNTAIN VIEW APTS		
Retpopsrvd:	100	Pwstypecod:	C
Vioid:	0605017	Contaminant:	P-DICHLOROBENZENE
Viol. Type:	3		
Complperbe:	1/1/2006 0:00:00		
Complperen:	12/31/2006 0:00:00	Enfdate:	5/3/2007 0:00:00
Enf action:	State Compliance Achieved		
Violmeasur:	Not Reported		

Truedate:	03/31/2009	Pwsid:	NH1282010
Pwsname:	MOUNTAIN VIEW APTS		
Retpopsrvd:	100	Pwstypecod:	C
Vioid:	0606017	Contaminant:	VINYL CHLORIDE
Viol. Type:	3		
Complperbe:	1/1/2006 0:00:00		
Complperen:	12/31/2006 0:00:00	Enfdate:	2/23/2007 0:00:00
Enf action:	State Violation/Reminder Notice		
Violmeasur:	Not Reported		

Truedate:	03/31/2009	Pwsid:	NH1282010
Pwsname:	MOUNTAIN VIEW APTS		
Retpopsrvd:	100	Pwstypecod:	C
Vioid:	0606017	Contaminant:	VINYL CHLORIDE
Viol. Type:	3		
Complperbe:	1/1/2006 0:00:00		
Complperen:	12/31/2006 0:00:00	Enfdate:	5/3/2007 0:00:00
Enf action:	State Compliance Achieved		
Violmeasur:	Not Reported		

Truedate:	03/31/2009	Pwsid:	NH1282010
Pwsname:	MOUNTAIN VIEW APTS		
Retpopsrvd:	100	Pwstypecod:	C
Vioid:	0607017	Contaminant:	1,1-DICHLOROETHYLENE
Viol. Type:	3		
Complperbe:	1/1/2006 0:00:00		
Complperen:	12/31/2006 0:00:00	Enfdate:	2/23/2007 0:00:00
Enf action:	State Violation/Reminder Notice		
Violmeasur:	Not Reported		

Truedate:	03/31/2009	Pwsid:	NH1282010
Pwsname:	MOUNTAIN VIEW APTS		
Retpopsrvd:	100	Pwstypecod:	C
Vioid:	0607017	Contaminant:	1,1-DICHLOROETHYLENE
Viol. Type:	3		
Complperbe:	1/1/2006 0:00:00		
Complperen:	12/31/2006 0:00:00	Enfdate:	5/3/2007 0:00:00
Enf action:	State Compliance Achieved		
Violmeasur:	Not Reported		

Truedate:	03/31/2009	Pwsid:	NH1282010
Pwsname:	MOUNTAIN VIEW APTS		
Retpopsrvd:	100	Pwstypecod:	C
Vioid:	0608017	Contaminant:	TRANS-1,2-DICHLOROETHYLENE
Viol. Type:	3		
Complperbe:	1/1/2006 0:00:00		
Complperen:	12/31/2006 0:00:00	Enfdate:	2/23/2007 0:00:00
Enf action:	State Violation/Reminder Notice		
Violmeasur:	Not Reported		

Truedate:	03/31/2009	Pwsid:	NH1282010
Pwsname:	MOUNTAIN VIEW APTS		
Retpopsrvd:	100	Pwstypecod:	C
Vioid:	0608017	Contaminant:	TRANS-1,2-DICHLOROETHYLENE
Viol. Type:	3		
Complperbe:	1/1/2006 0:00:00		
Complperen:	12/31/2006 0:00:00	Enfdate:	5/3/2007 0:00:00
Enf action:	State Compliance Achieved		
Violmeasur:	Not Reported		

Truedate:	03/31/2009	Pwsid:	NH1282010
Pwsname:	MOUNTAIN VIEW APTS		
Retpopsrvd:	100	Pwstypecod:	C
Vioid:	0609017	Contaminant:	1,2-DICHLOROETHANE
Viol. Type:	3		
Complperbe:	1/1/2006 0:00:00		
Complperen:	12/31/2006 0:00:00	Enfdate:	2/23/2007 0:00:00
Enf action:	State Violation/Reminder Notice		
Violmeasur:	Not Reported		

Truedate:	03/31/2009	Pwsid:	NH1282010
Pwsname:	MOUNTAIN VIEW APTS		
Retpopsrvd:	100	Pwstypecod:	C
Vioid:	0609017	Contaminant:	1,2-DICHLOROETHANE
Viol. Type:	3		
Complperbe:	1/1/2006 0:00:00		
Complperen:	12/31/2006 0:00:00	Enfdate:	5/3/2007 0:00:00
Enf action:	State Compliance Achieved		
Violmeasur:	Not Reported		

Truedate:	03/31/2009	Pwsid:	NH1282010
Pwsname:	MOUNTAIN VIEW APTS		
Retpopsrvd:	100	Pwstypecod:	C
Vioid:	0610017	Contaminant:	1,1,1-TRICHLOROETHANE
Viol. Type:	3		
Complperbe:	1/1/2006 0:00:00		
Complperen:	12/31/2006 0:00:00	Enfdate:	2/23/2007 0:00:00
Enf action:	State Violation/Reminder Notice		
Violmeasur:	Not Reported		

Truedate:	03/31/2009	Pwsid:	NH1282010
Pwsname:	MOUNTAIN VIEW APTS		
Retpopsrvd:	100	Pwstypecod:	C
Vioid:	0610017	Contaminant:	1,1,1-TRICHLOROETHANE
Viol. Type:	3		
Complperbe:	1/1/2006 0:00:00		
Complperen:	12/31/2006 0:00:00	Enfdate:	5/3/2007 0:00:00
Enf action:	State Compliance Achieved		
Violmeasur:	Not Reported		

Truedate:	03/31/2009	Pwsid:	NH1282010
Pwsname:	MOUNTAIN VIEW APTS		
Retpopsrvd:	100	Pwstypecod:	C
Vioid:	0611017	Contaminant:	CARBON TETRACHLORIDE
Viol. Type:	3		
Complperbe:	1/1/2006 0:00:00		
Complperen:	12/31/2006 0:00:00	Enfdate:	2/23/2007 0:00:00
Enf action:	State Violation/Reminder Notice		
Violmeasur:	Not Reported		

Truedate:	03/31/2009	Pwsid:	NH1282010
Pwsname:	MOUNTAIN VIEW APTS		
Retpopsrvd:	100	Pwstypecod:	C
Vioid:	0611017	Contaminant:	CARBON TETRACHLORIDE
Viol. Type:	3		
Complperbe:	1/1/2006 0:00:00		
Complperen:	12/31/2006 0:00:00	Enfdate:	5/3/2007 0:00:00
Enf action:	State Compliance Achieved		
Violmeasur:	Not Reported		

Truedate:	03/31/2009	Pwsid:	NH1282010
Pwsname:	MOUNTAIN VIEW APTS		
Retpopsrvd:	100	Pwstypecod:	C
Vioid:	0612017	Contaminant:	1,2-DICHLOROPROPANE
Viol. Type:	3		
Complperbe:	1/1/2006 0:00:00		
Complperen:	12/31/2006 0:00:00	Enfdate:	2/23/2007 0:00:00
Enf action:	State Violation/Reminder Notice		
Violmeasur:	Not Reported		

Truedate:	03/31/2009	Pwsid:	NH1282010
Pwsname:	MOUNTAIN VIEW APTS		
Retpopsrvd:	100	Pwstypecod:	C
Vioid:	0612017	Contaminant:	1,2-DICHLOROPROPANE
Viol. Type:	3		
Complperbe:	1/1/2006 0:00:00		
Complperen:	12/31/2006 0:00:00	Enfdate:	5/3/2007 0:00:00
Enf action:	State Compliance Achieved		
Violmeasur:	Not Reported		

Truedate:	03/31/2009	Pwsid:	NH1282010
Pwsname:	MOUNTAIN VIEW APTS		
Retpopsrvd:	100	Pwstypecod:	C
Vioid:	0613017	Contaminant:	TRICHLOROETHYLENE
Viol. Type:	3		
Complperbe:	1/1/2006 0:00:00		
Complperen:	12/31/2006 0:00:00	Enfdate:	2/23/2007 0:00:00
Enf action:	State Violation/Reminder Notice		
Violmeasur:	Not Reported		

Truedate:	03/31/2009	Pwsid:	NH1282010
Pwsname:	MOUNTAIN VIEW APTS		
Retpopsrvd:	100	Pwstypecod:	C
Vioid:	0613017	Contaminant:	TRICHLOROETHYLENE
Viol. Type:	3		
Complperbe:	1/1/2006 0:00:00		
Complperen:	12/31/2006 0:00:00	Enfdate:	5/3/2007 0:00:00
Enf action:	State Compliance Achieved		
Violmeasur:	Not Reported		

Truedate:	03/31/2009	Pwsid:	NH1282010
Pwsname:	MOUNTAIN VIEW APTS		
Retpopsrvd:	100	Pwstypecod:	C
Vioid:	0614017	Contaminant:	1,1,2-TRICHLOROETHANE
Viol. Type:	3		
Complperbe:	1/1/2006 0:00:00		
Complperen:	12/31/2006 0:00:00	Enfdate:	2/23/2007 0:00:00
Enf action:	State Violation/Reminder Notice		
Violmeasur:	Not Reported		

Truedate:	03/31/2009	Pwsid:	NH1282010
Pwsname:	MOUNTAIN VIEW APTS		
Retpopsrvd:	100	Pwstypecod:	C
Vioid:	0614017	Contaminant:	1,1,2-TRICHLOROETHANE
Viol. Type:	3		
Complperbe:	1/1/2006 0:00:00		
Complperen:	12/31/2006 0:00:00	Enfdate:	5/3/2007 0:00:00
Enf action:	State Compliance Achieved		
Violmeasur:	Not Reported		

Truedate:	03/31/2009	Pwsid:	NH1282010
Pwsname:	MOUNTAIN VIEW APTS		
Retpopsrvd:	100	Pwstypecod:	C
Vioid:	0615017	Contaminant:	TETRACHLOROETHYLENE
Viol. Type:	3		
Complperbe:	1/1/2006 0:00:00		
Complperen:	12/31/2006 0:00:00	Enfdate:	2/23/2007 0:00:00
Enf action:	State Violation/Reminder Notice		
Violmeasur:	Not Reported		

Truedate:	03/31/2009	Pwsid:	NH1282010
Pwsname:	MOUNTAIN VIEW APTS		
Retpopsrvd:	100	Pwstypecod:	C
Vioid:	0615017	Contaminant:	TETRACHLOROETHYLENE
Viol. Type:	3		
Complperbe:	1/1/2006 0:00:00		
Complperen:	12/31/2006 0:00:00	Enfdate:	5/3/2007 0:00:00
Enf action:	State Compliance Achieved		
Violmeasur:	Not Reported		

Truedate:	03/31/2009	Pwsid:	NH1282010
Pwsname:	MOUNTAIN VIEW APTS		
Retpopsrvd:	100	Pwstypecod:	C
Vioid:	0616017	Contaminant:	MONOCHLOROBENZENE (CHLOROBENZENE)
Viol. Type:	3		
Complperbe:	1/1/2006 0:00:00		
Complperen:	12/31/2006 0:00:00	Enfdate:	2/23/2007 0:00:00
Enf action:	State Violation/Reminder Notice		
Violmeasur:	Not Reported		

Truedate:	03/31/2009	Pwsid:	NH1282010
Pwsname:	MOUNTAIN VIEW APTS		
Retpopsrvd:	100	Pwstypecod:	C
Vioid:	0616017	Contaminant:	MONOCHLOROBENZENE (CHLOROBENZENE)
Viol. Type:	3		
Complperbe:	1/1/2006 0:00:00		
Complperen:	12/31/2006 0:00:00	Enfdate:	5/3/2007 0:00:00
Enf action:	State Compliance Achieved		
Violmeasur:	Not Reported		

Truedate:	03/31/2009	Pwsid:	NH1282010
Pwsname:	MOUNTAIN VIEW APTS		
Retpopsrvd:	100	Pwstypecod:	C
Vioid:	0617017	Contaminant:	BENZENE
Viol. Type:	3		
Complperbe:	1/1/2006 0:00:00		
Complperen:	12/31/2006 0:00:00	Enfdate:	2/23/2007 0:00:00
Enf action:	State Violation/Reminder Notice		
Violmeasur:	Not Reported		

Truedate:	03/31/2009	Pwsid:	NH1282010
Pwsname:	MOUNTAIN VIEW APTS		
Retpopsrvd:	100	Pwstypecod:	C
Vioid:	0617017	Contaminant:	BENZENE
Viol. Type:	3		
Complperbe:	1/1/2006 0:00:00		
Complperen:	12/31/2006 0:00:00	Enfdate:	5/3/2007 0:00:00
Enf action:	State Compliance Achieved		
Violmeasur:	Not Reported		

Truedate:	03/31/2009	Pwsid:	NH1282010
Pwsname:	MOUNTAIN VIEW APTS		
Retpopsrvd:	100	Pwstypecod:	C
Vioid:	0618017	Contaminant:	TOLUENE
Viol. Type:	3		
Complperbe:	1/1/2006 0:00:00		
Complperen:	12/31/2006 0:00:00	Enfdate:	2/23/2007 0:00:00
Enf action:	State Violation/Reminder Notice		
Violmeasur:	Not Reported		

Truedate:	03/31/2009	Pwsid:	NH1282010
Pwsname:	MOUNTAIN VIEW APTS		
Retpopsrvd:	100	Pwstypecod:	C
Vioid:	0618017	Contaminant:	TOLUENE
Viol. Type:	3		
Complperbe:	1/1/2006 0:00:00		
Complperen:	12/31/2006 0:00:00	Enfdate:	5/3/2007 0:00:00
Enf action:	State Compliance Achieved		
Violmeasur:	Not Reported		

Truedate:	03/31/2009	Pwsid:	NH1282010
Pwsname:	MOUNTAIN VIEW APTS		
Retpopsrvd:	100	Pwstypecod:	C
Vioid:	0619017	Contaminant:	ETHYLBENZENE
Viol. Type:	3		
Complperbe:	1/1/2006 0:00:00		
Complperen:	12/31/2006 0:00:00	Enfdate:	2/23/2007 0:00:00
Enf action:	State Violation/Reminder Notice		
Violmeasur:	Not Reported		

Truedate:	03/31/2009	Pwsid:	NH1282010
Pwsname:	MOUNTAIN VIEW APTS		
Retpopsrvd:	100	Pwstypecod:	C
Vioid:	0619017	Contaminant:	ETHYLBENZENE
Viol. Type:	3		
Complperbe:	1/1/2006 0:00:00		
Complperen:	12/31/2006 0:00:00	Enfdate:	5/3/2007 0:00:00
Enf action:	State Compliance Achieved		
Violmeasur:	Not Reported		

Truedate:	03/31/2009	Pwsid:	NH1282010
Pwsname:	MOUNTAIN VIEW APTS		
Retpopsrvd:	100	Pwstypecod:	C
Vioid:	0620017	Contaminant:	STYRENE
Viol. Type:	3		
Complperbe:	1/1/2006 0:00:00		
Complperen:	12/31/2006 0:00:00	Enfdate:	2/23/2007 0:00:00
Enf action:	State Violation/Reminder Notice		
Violmeasur:	Not Reported		

Truedate:	03/31/2009	Pwsid:	NH1282010
Pwsname:	MOUNTAIN VIEW APTS		
Retpopsrvd:	100	Pwstypecod:	C
Vioid:	0620017	Contaminant:	STYRENE
Viol. Type:	3		
Complperbe:	1/1/2006 0:00:00		
Complperen:	12/31/2006 0:00:00	Enfdate:	5/3/2007 0:00:00
Enf action:	State Compliance Achieved		
Violmeasur:	Not Reported		

Truedate:	03/31/2009	Pwsid:	NH1282010
Pwsname:	MOUNTAIN VIEW APTS		
Retpopsrvd:	100	Pwstypecod:	C
Vioid:	0700023	Contaminant:	7000
Viol. Type:	CCR Complete Failure to Report		
Complperbe:	7/1/2007 0:00:00		
Complperen:	10/1/2007 0:00:00	Enfdate:	10/1/2007 0:00:00
Enf action:	State Compliance Achieved		
Violmeasur:	Not Reported		

Truedate:	03/31/2009	Pwsid:	NH1282010
Pwsname:	MOUNTAIN VIEW APTS		
Retpopsrvd:	100	Pwstypecod:	C
Vioid:	0700023	Contaminant:	7000
Viol. Type:	CCR Complete Failure to Report		
Complperbe:	7/1/2007 0:00:00		
Complperen:	10/1/2007 0:00:00	Enfdate:	9/12/2007 0:00:00
Enf action:	State Formal NOV Issued		
Violmeasur:	Not Reported		

Truedate:	03/31/2009	Pwsid:	NH1282010
Pwsname:	MOUNTAIN VIEW APTS		
Retpopsrvd:	100	Pwstypecod:	C
Vioid:	0700023	Contaminant:	7000
Viol. Type:	CCR Complete Failure to Report		
Complperbe:	7/1/2007 0:00:00		
Complperen:	10/1/2007 0:00:00	Enfdate:	7/24/2007 0:00:00
Enf action:	State Violation/Reminder Notice		
Violmeasur:	Not Reported		

Truedate:	03/31/2009	Pwsid:	NH1282010
Pwsname:	MOUNTAIN VIEW APTS		
Retpopsrvd:	100	Pwstypecod:	C
Vioid:	0800026	Contaminant:	COMBINED RADIUM (-226 & -228)
Viol. Type:	3		
Complperbe:	10/1/2007 0:00:00		
Complperen:	12/31/2007 0:00:00	Enfdate:	2/15/2008 0:00:00
Enf action:	State Violation/Reminder Notice		
Violmeasur:	Not Reported		

Truedate:	03/31/2009	Pwsid:	NH1282010
Pwsname:	MOUNTAIN VIEW APTS		
Retpopsrvd:	100	Pwstypecod:	C
Vioid:	0800026	Contaminant:	COMBINED RADIUM (-226 & -228)
Viol. Type:	3		
Complperbe:	10/1/2007 0:00:00		
Complperen:	12/31/2007 0:00:00	Enfdate:	2/21/2008 0:00:00
Enf action:	State Compliance Achieved		
Violmeasur:	Not Reported		

Truedate:	03/31/2009	Pwsid:	NH1282010
Pwsname:	MOUNTAIN VIEW APTS		
Retpopsrvd:	100	Pwstypecod:	C
Vioid:	0800027	Contaminant:	7000
Viol. Type:	CCR Complete Failure to Report		
Complperbe:	7/1/2008 0:00:00		
Complperen:	10/3/2008 0:00:00	Enfdate:	7/29/2008 0:00:00
Enf action:	State Violation/Reminder Notice		
Violmeasur:	Not Reported		

Truedate:	03/31/2009	Pwsid:	NH1282010
Pwsname:	MOUNTAIN VIEW APTS		
Retpopsrvd:	100	Pwstypecod:	C
Vioid:	0800027	Contaminant:	7000
Viol. Type:	CCR Complete Failure to Report		
Complperbe:	7/1/2008 0:00:00		
Complperen:	10/3/2008 0:00:00	Enfdate:	10/3/2008 0:00:00
Enf action:	State Compliance Achieved		
Violmeasur:	Not Reported		

Truedate:	03/31/2009	Pwsid:	NH1282010
Pwsname:	MOUNTAIN VIEW APTS		
Retpopsrvd:	100	Pwstypecod:	C
Vioid:	0800027	Contaminant:	7000
Viol. Type:	CCR Complete Failure to Report		
Complperbe:	7/1/2008 0:00:00		
Complperen:	10/3/2008 0:00:00	Enfdate:	9/18/2008 0:00:00
Enf action:	State Formal NOV Issued		
Violmeasur:	Not Reported		

System Name:	MOUNTAIN VIEW APTS		
Violation Type:	CCR Complete Failure to Report		
Contaminant:	7000		
Compliance Period:	1999-10-19 - 2015-12-31		
Violation ID:	0000015		
Enforcement Date:	2000-05-09	Enf. Action:	Fed PAO Issued

System Name:	MOUNTAIN VIEW APTS		
Violation Type:	CCR Complete Failure to Report		
Contaminant:	7000		
Compliance Period:	1999-10-19 - 2015-12-31		
Violation ID:	0000015		
Enforcement Date:	2000-05-09	Enf. Action:	Fed PAO Issued

System Name:	MOUNTAIN VIEW APTS		
Violation Type:	CCR Complete Failure to Report		
Contaminant:	7000		
Compliance Period:	1999-10-19 - 2015-12-31		
Violation ID:	0000015		
Enforcement Date:	2000-05-09	Enf. Action:	Fed PAO Issued

System Name:	MOUNTAIN VIEW APTS		
Violation Type:	CCR Complete Failure to Report		
Contaminant:	7000		
Compliance Period:	10/19/1999 0:00:00 - 4/2/2003 0:00:00		
Violation ID:	0000015		
Enforcement Date:	5/9/2000 0:00:00	Enf. Action:	Fed PAO Issued

System Name:	MOUNTAIN VIEW APTS		
Violation Type:	CCR Complete Failure to Report		
Contaminant:	7000		
Compliance Period:	10/19/1999 0:00:00 - 4/2/2003 0:00:00		
Violation ID:	0000015		
Enforcement Date:	5/9/2000 0:00:00	Enf. Action:	Fed PAO Issued

System Name:	MOUNTAIN VIEW APARTMENTS		
Violation Type:	CCR Complete Failure to Report		
Contaminant:	7000		
Compliance Period:	1999-10-19 - 2015-12-31		
Violation ID:	0000015		
Enforcement Date:	Not Reported	Enf. Action:	Not Reported

ENFORCEMENT INFORMATION:

System Name:	MOUNTAIN VIEW APTS		
Violation Type:	CCR Complete Failure to Report		
Contaminant:	7000		
Compliance Period:	10/19/1999 0:00:00 - 4/2/2003 0:00:00		
Violation ID:	0000015		
Enforcement Date:	4/2/2003 0:00:00	Enf. Action:	Fed Compliance Achieved
System Name:	MOUNTAIN VIEW APTS		
Violation Type:	CCR Complete Failure to Report		
Contaminant:	7000		
Compliance Period:	10/19/1999 0:00:00 - 4/2/2003 0:00:00		
Violation ID:	0000015		
Enforcement Date:	4/2/2003 0:00:00	Enf. Action:	Fed Compliance Achieved
System Name:	MOUNTAIN VIEW APTS		
Violation Type:	CCR Complete Failure to Report		
Contaminant:	7000		
Compliance Period:	7/1/2006 0:00:00 - 8/11/2006 0:00:00		
Violation ID:	0600016		
Enforcement Date:	8/4/2006 0:00:00	Enf. Action:	State Violation/Reminder Notice
System Name:	MOUNTAIN VIEW APTS		
Violation Type:	CCR Complete Failure to Report		
Contaminant:	7000		
Compliance Period:	7/1/2006 0:00:00 - 8/11/2006 0:00:00		
Violation ID:	0600016		
Enforcement Date:	8/11/2006 0:00:00	Enf. Action:	State Compliance Achieved

CONTACT INFORMATION:

Name:	MOUNTAIN VIEW APTS	Population:	100
Contact:	ANTHONY FELCH	Phone:	Not Reported
Address:	380 MILE HILL RD UT 21		
Address 2:	LACONIA NH, 03		

F28
South
1/2 - 1 Mile
Lower

NH WELLS **NHWS003970**

Masterid:	52414	Pwsid:	0202010-004
System_id:	0202010	Source:	004
Name:	LAKELAND MGT CO		
Address:	PLUMMER HILL RD		
Town:	BELMONT	System_act:	Active
System_typ:	Community	Population:	308
Source_act:	Active	Source_des:	GRW 1, 3000’ NE OF PH
Source_typ:	Groundwater	Well_depth:	26
Src_delin:	fixed radius based on permitted production volume approved fora new well		
Provol:	56160		
Yield:	39	X_coord:	1042031.313
Y_coord:	365118.906	Longitude:	71 26 56.018
Latitude:	43 30 05.715		

Map ID Direction Distance Elevation	Database	EDR ID Number
29 **WSW** **1/2 - 1 Mile** **Higher**	**NH WELLS**	**NHWS004756**

Masterid:	45536	Pwsid:	1285040-001
System_id:	1285040	Source:	001
Name:	NH COMMUNITY TECHNICAL COLLEGE		
Address:	379 NEW PRESCOTT HILL RD		
Town:	LACONIA	System_act:	Active
System_typ:	Non-transient, non-community	Population:	500
Source_act:	Active	Source_des:	BRW, 12' E OF BLDG ENTRANCE LEFT SIDE
Source_typ:	Groundwater	Well_depth:	0
Src_delin:	fixed radius based on max daily withdrawal reported under DES sampling waiver program		
Provol:	0		
Yield:	0	X_coord:	1038506.313
Y_coord:	367252.938	Longitude:	71 27 43.774
Latitude:	43 30 26.880		

J30 **ESE** **1/2 - 1 Mile** **Higher**	**FED USGS**	**USGS40000799398**

Org. Identifier:	USGS-NH		
Formal name:	USGS New Hampshire Water Science Center		
Monloc Identifier:	USGS-433031071260401		
Monloc name:	NH-GFW 215		
Monloc type:	Well		
Monloc desc:	Not Reported		
Huc code:	01070002	Drainagearea value:	Not Reported
Drainagearea Units:	Not Reported	Contrib drainagearea:	Not Reported
Contrib drainagearea units:	Not Reported	Latitude:	43.5086885
Longitude:	-71.4339612	Sourcemap scale:	Not Reported
Horiz Acc measure:	5	Horiz Acc measure units:	seconds
Horiz Collection method:	Interpolated from map		
Horiz coord refsys:	NAD83	Vert measure val:	1040
Vert measure units:	feet	Vertacc measure val:	10
Vert accmeasure units:	feet		
Vertcollection method:	Interpolated from topographic map		
Vert coord refsys:	NGVD29	Countrycode:	US
Aquifername:	Not Reported		
Formation type:	Bedrock		
Aquifer type:	Not Reported		
Construction date:	19890000	Welldepth:	450
Welldepth units:	ft	Wellholedepth:	Not Reported
Wellholedepth units:	Not Reported		

Ground-water levels, Number of Measurements: 1

Date	Feet below Surface	Feet to Sealevel
1989-10-06	30.0	

Map ID Direction Distance Elevation	Database	EDR ID Number
J31 **ESE** **1/2 - 1 Mile** **Higher**	**NH WELLS**	**NH10006836**

Granitid:	0	Well:	192-
Town Code:	090.0236	Elevation:	1040
X Coord:	561633.2		
Y Coord:	0		
Fname:	D.	Owner:	CLARK
Street #:	90	Road:	COTTON HILL RD
Town:	GILFORD	Map:	34
Parcel:	1-51.C	Date completed:	10/06/1989
Use:	Domestic	Reason Built:	New
Type:	Drilled in bedrock	Depth:	450
To Bedrock:	17	Casing:	42
Yield Test Meth:	Compressed air	Yield Test Dur:	1
Discharge::	6	Water Level:	30
Date Measured:	10/06/1989	Water Quality	Not Reported
Overburden Matl:	Sand	Report Quality:	Fair
Locent:	1	Locacc:	4
Note:	YL	Xnad83:	0
Ynad83:	0		

K32 **SE** **1/2 - 1 Mile** **Higher**	**NH WELLS**	**NH10006651**

Granitid:	0	Well:	247-8
Town Code:	090.0019	Elevation:	1120
X Coord:	560856.9		
Y Coord:	0		
Fname:	V.	Owner:	DOOLEY
Street #:	22	Road:	COTTON HILL RD
Town:	GILFORD	Map:	34
Parcel:	1-53.3	Date completed:	09/12/1984
Use:	Domestic	Reason Built:	Deepen existing
Type:	Drilled in bedrock	Depth:	465
To Bedrock:	-9999	Casing:	-9999
Yield Test Meth:	Compressed air	Yield Test Dur:	.5
Discharge::	2	Water Level:	30
Date Measured:	09/13/1984	Water Quality	Not Reported
Overburden Matl:	Not Reported	Report Quality:	Fair
Locent:	1	Locacc:	4
Note:	Not Reported	Xnad83:	0
Ynad83:	0		

L33 **ENE** **1/2 - 1 Mile** **Higher**	**NH WELLS**	**NH10006857**

Granitid:	0	Well:	319-421
Town Code:	090.0262	Elevation:	920
X Coord:	561638.8		
Y Coord:	0		
Fname:	S.	Owner:	HOWARD
Street #:	21	Road:	SPRING HILL CIR
Town:	GILFORD	Map:	27
Parcel:	1-21.2	Date completed:	11/19/1990
Use:	Domestic	Reason Built:	New
Type:	Drilled in bedrock	Depth:	210
To Bedrock:	6	Casing:	20
Yield Test Meth:	Compressed air	Yield Test Dur:	.5
Discharge::	10	Water Level:	-9999
Date Measured:	Not Reported	Water Quality	Not Reported
Overburden Matl:	Till	Report Quality:	Fair
Locent:	1	Locacc:	4
Note:	Not Reported	Xnad83:	0
Ynad83:	0		

K34
SE
1/2 - 1 Mile
Higher

FED USGS **USGS40000799335**

Org. Identifier:	USGS-NH		
Formal name:	USGS New Hampshire Water Science Center		
Monloc Identifier:	USGS-433015071261401		
Monloc name:	NH-GFW 30		
Monloc type:	Well		
Monloc desc:	Not Reported		
Huc code:	01070002	Drainagearea value:	Not Reported
Drainagearea Units:	Not Reported	Contrib drainagearea:	Not Reported
Contrib drainagearea units:	Not Reported	Latitude:	43.5042441
Longitude:	-71.436739	Sourcemap scale:	Not Reported
Horiz Acc measure:	5	Horiz Acc measure units:	seconds
Horiz Collection method:	Interpolated from map		
Horiz coord refsys:	NAD83	Vert measure val:	1120
Vert measure units:	feet	Vertacc measure val:	10
Vert accmeasure units:	feet		
Vertcollection method:	Interpolated from topographic map		
Vert coord refsys:	NGVD29	Countrycode:	US
Aquifername:	Not Reported		
Formation type:	Bedrock		
Aquifer type:	Not Reported		
Construction date:	19840000	Welldepth:	465
Welldepth units:	ft	Wellholedepth:	Not Reported
Wellholedepth units:	Not Reported		

Ground-water levels, Number of Measurements: 1

Date	Feet below Surface	Feet to Sealevel
1984-09-13	30.0	

L35
ENE
1/2 - 1 Mile
Higher

FED USGS **USGS40000799478**

Org. Identifier:	USGS-NH		
Formal name:	USGS New Hampshire Water Science Center		
Monloc Identifier:	USGS-433055071260301		
Monloc name:	NH-GFW 236		
Monloc type:	Well		
Monloc desc:	Not Reported		
Huc code:	01070002	Drainagearea value:	Not Reported
Drainagearea Units:	Not Reported	Contrib drainagearea:	Not Reported
Contrib drainagearea units:	Not Reported	Latitude:	43.5153551
Longitude:	-71.4336835	Sourcemap scale:	Not Reported
Horiz Acc measure:	5	Horiz Acc measure units:	seconds
Horiz Collection method:	Interpolated from map		
Horiz coord refsys:	NAD83	Vert measure val:	920
Vert measure units:	feet	Vertacc measure val:	10
Vert accmeasure units:	feet		
Vertcollection method:	Interpolated from topographic map		
Vert coord refsys:	NGVD29	Countrycode:	US
Aquifername:	Not Reported		
Formation type:	Bedrock		
Aquifer type:	Not Reported		
Construction date:	19900000	Welldepth:	210
Welldepth units:	ft	Wellholedepth:	Not Reported
Wellholedepth units:	Not Reported		

Ground-water levels, Number of Measurements: 0

J36
ESE
1/2 - 1 Mile
Higher

NH WELLS **NH10006810**

Granitid:	0	Well:	192-
Town Code:	090.0210	Elevation:	1060
X Coord:	561765.1		
Y Coord:	0		
Fname:	E.	Owner:	PETERS
Street #:	91	Road:	COTTON HILL RD
Town:	GILFORD	Map:	34
Parcel:	1-51.1	Date completed:	11/02/1988
Use:	Domestic	Reason Built:	New
Type:	Drilled in bedrock	Depth:	300
To Bedrock:	13	Casing:	50
Yield Test Meth:	Compressed air	Yield Test Dur:	1
Discharge::	10	Water Level:	-9999
Date Measured:	Not Reported	Water Quality	Not Reported
Overburden Matl:	23	Report Quality:	Fair
Locent:	1	Locacc:	4
Note:	Not Reported	Xnad83:	0
Ynad83:	0		

J37
ESE
1/2 - 1 Mile
Higher

FED USGS **USGS40000799387**

Org. Identifier:	USGS-NH		
Formal name:	USGS New Hampshire Water Science Center		
Monloc Identifier:	USGS-433028071260201		
Monloc name:	NH-GFW 189		
Monloc type:	Well		
Monloc desc:	Not Reported		
Huc code:	01070002	Drainagearea value:	Not Reported
Drainagearea Units:	Not Reported	Contrib drainagearea:	Not Reported
Contrib drainagearea units:	Not Reported	Latitude:	43.5078552
Longitude:	-71.4334057	Sourcemap scale:	Not Reported
Horiz Acc measure:	5	Horiz Acc measure units:	seconds
Horiz Collection method:	Interpolated from map		
Horiz coord refsys:	NAD83	Vert measure val:	1060
Vert measure units:	feet	Vertacc measure val:	10
Vert accmeasure units:	feet		
Vertcollection method:	Interpolated from topographic map		
Vert coord refsys:	NGVD29	Countrycode:	US
Aquifername:	Not Reported		
Formation type:	Bedrock		
Aquifer type:	Not Reported		
Construction date:	19880000	Welldepth:	300
Welldepth units:	ft	Wellholedepth:	Not Reported
Wellholedepth units:	Not Reported		

Ground-water levels, Number of Measurements: 0

K38
SE
1/2 - 1 Mile
Higher

NH WELLS **NH10006866**

Granitid:	0	Well:	192-
Town Code:	090.0271	Elevation:	1130
X Coord:	560803.1		
Y Coord:	0		
Fname:	G.	Owner:	SHAW
Street #:	4	Road:	COTTON HILL RD
Town:	GILFORD	Map:	34
Parcel:	1-54A	Date completed:	12/07/1988
Use:	Domestic	Reason Built:	New
Type:	Drilled in bedrock	Depth:	300
To Bedrock:	66	Casing:	73
Yield Test Meth:	Compressed air	Yield Test Dur:	1
Discharge::	8	Water Level:	-9999
Date Measured:	Not Reported	Water Quality	Not Reported
Overburden Matl:	23	Report Quality:	Fair
Locent:	1	Locacc:	4
Note:	Not Reported	Xnad83:	0
Ynad83:	0		

K39
SE
1/2 - 1 Mile
Higher

FED USGS **USGS40000799321**

Org. Identifier:	USGS-NH		
Formal name:	USGS New Hampshire Water Science Center		
Monloc Identifier:	USGS-433012071261501		
Monloc name:	NH-GFW 241		
Monloc type:	Well		
Monloc desc:	Not Reported		
Huc code:	01070002	Drainagearea value:	Not Reported
Drainagearea Units:	Not Reported	Contrib drainagearea:	Not Reported
Contrib drainagearea units:	Not Reported	Latitude:	43.5034108
Longitude:	-71.4370168	Sourcemap scale:	Not Reported
Horiz Acc measure:	5	Horiz Acc measure units:	seconds
Horiz Collection method:	Interpolated from map		
Horiz coord refsys:	NAD83	Vert measure val:	1130
Vert measure units:	feet	Vertacc measure val:	10
Vert accmeasure units:	feet		
Vertcollection method:	Interpolated from topographic map		
Vert coord refsys:	NGVD29	Countrycode:	US
Aquifername:	Not Reported		
Formation type:	Bedrock		
Aquifer type:	Not Reported		
Construction date:	19880000	Welldepth:	300
Welldepth units:	ft	Wellholedepth:	Not Reported
Wellholedepth units:	Not Reported		

Ground-water levels, Number of Measurements: 0

K40
SE
1/2 - 1 Mile
Higher

NH WELLS **NH10006851**

Granitid:	0	Well:	247-15589
Town Code:	090.0255	Elevation:	1130
X Coord:	560952.6		
Y Coord:	0		
Fname:	K.	Owner:	HADDOCK
Street #:	10	Road:	COTTON HILL RD
Town:	GILFORD	Map:	34
Parcel:	1-54B	Date completed:	09/13/1989
Use:	Domestic	Reason Built:	New
Type:	Drilled in bedrock	Depth:	385
To Bedrock:	60	Casing:	80
Yield Test Meth:	Compressed air	Yield Test Dur:	.330000013113022
Discharge::	6	Water Level:	-9999
Date Measured:	Not Reported	Water Quality	Not Reported
Overburden Matl:	1-4	Report Quality:	Fair
Locent:	1	Locacc:	4
Note:	Not Reported	Xnad83:	0
Ynad83:	0		

K41
SE
1/2 - 1 Mile
Higher

FED USGS **USGS40000799325**

Org. Identifier:	USGS-NH		
Formal name:	USGS New Hampshire Water Science Center		
Monloc Identifier:	USGS-433013071261301		
Monloc name:	NH-GFW 230		
Monloc type:	Well		
Monloc desc:	Not Reported		
Huc code:	01070002	Drainagearea value:	Not Reported
Drainagearea Units:	Not Reported	Contrib drainagearea:	Not Reported
Contrib drainagearea units:	Not Reported	Latitude:	43.5036885
Longitude:	-71.4364613	Sourcemap scale:	Not Reported
Horiz Acc measure:	5	Horiz Acc measure units:	seconds
Horiz Collection method:	Interpolated from map		
Horiz coord refsys:	NAD83	Vert measure val:	1130
Vert measure units:	feet	Vertacc measure val:	10
Vert accmeasure units:	feet		
Vertcollection method:	Interpolated from topographic map		
Vert coord refsys:	NGVD29	Countrycode:	US
Aquifername:	Not Reported		
Formation type:	Bedrock		
Aquifer type:	Not Reported		
Construction date:	19890000	Welldepth:	385
Welldepth units:	ft	Wellholedepth:	Not Reported
Wellholedepth units:	Not Reported		

Ground-water levels, Number of Measurements: 0

M42
South
1/2 - 1 Mile
Higher

NH WELLS **NH10002633**

Granitid:	0	Well:	819-146
Town Code:	021.0193	Elevation:	750
X Coord:	558404.6		
Y Coord:	0		
Fname:	E.	Owner:	MACINTOSH
Street #:	731	Road:	RTE 107
Town:	BELMONT	Map:	13
Parcel:	28	Date completed:	03/30/1988
Use:	Domestic	Reason Built:	New
Type:	Drilled in bedrock	Depth:	75
To Bedrock:	10	Casing:	29
Yield Test Meth:	Bailed	Yield Test Dur:	-9999
Discharge::	6	Water Level:	0
Date Measured:	03/30/1988	Water Quality	Not Reported
Overburden Matl:	Sand	Report Quality:	Fair
Locent:	1	Locacc:	4
Note:	YL	Xnad83:	0
Ynad83:	0		

M43
South
1/2 - 1 Mile
Higher

FED USGS **USGS40000799263**

Org. Identifier:	USGS-NH		
Formal name:	USGS New Hampshire Water Science Center		
Monloc Identifier:	USGS-432959071264801		
Monloc name:	NH-BLW 230		
Monloc type:	Well		
Monloc desc:	Not Reported		
Huc code:	01070002	Drainagearea value:	Not Reported
Drainagearea Units:	Not Reported	Contrib drainagearea:	Not Reported
Contrib drainagearea units:	Not Reported	Latitude:	43.4997996
Longitude:	-71.4461837	Sourcemap scale:	Not Reported
Horiz Acc measure:	5	Horiz Acc measure units:	seconds
Horiz Collection method:	Interpolated from map		
Horiz coord refsys:	NAD83	Vert measure val:	750
Vert measure units:	feet	Vertacc measure val:	10
Vert accmeasure units:	feet		
Vertcollection method:	Interpolated from topographic map		
Vert coord refsys:	NGVD29	Countrycode:	US
Aquifername:	Not Reported		
Formation type:	Bedrock		
Aquifer type:	Not Reported		
Construction date:	19880000	Welldepth:	75
Welldepth units:	ft	Wellholedepth:	Not Reported
Wellholedepth units:	Not Reported		

Ground-water levels, Number of Measurements: 0

N44
SE
1/2 - 1 Mile
Higher

FED USGS **USGS40000799306**

Org. Identifier:	USGS-NH		
Formal name:	USGS New Hampshire Water Science Center		
Monloc Identifier:	USGS-433009071261601		
Monloc name:	NH-BLW 177		
Monloc type:	Well		
Monloc desc:	Not Reported		
Huc code:	01070002	Drainagearea value:	Not Reported
Drainagearea Units:	Not Reported	Contrib drainagearea:	Not Reported
Contrib drainagearea units:	Not Reported	Latitude:	43.5025774
Longitude:	-71.4372946	Sourcemap scale:	Not Reported
Horiz Acc measure:	5	Horiz Acc measure units:	seconds
Horiz Collection method:	Interpolated from map		
Horiz coord refsys:	NAD83	Vert measure val:	1140
Vert measure units:	feet	Vertacc measure val:	10
Vert accmeasure units:	feet		
Vertcollection method:	Interpolated from topographic map		
Vert coord refsys:	NGVD29	Countrycode:	US
Aquifername:	Not Reported		
Formation type:	Bedrock		
Aquifer type:	Not Reported		
Construction date:	19870000	Welldepth:	265
Welldepth units:	ft	Wellholedepth:	Not Reported
Wellholedepth units:	Not Reported		

Ground-water levels, Number of Measurements: 1

Date	Feet below Surface	Feet to Sealevel
1987-01-15	30.0	

N45
SE
1/2 - 1 Mile
Higher

NH WELLS **NH10002580**

Granitid:	0	Well:	208-2238
Town Code:	021.0113	Elevation:	1140
X Coord:	560710.9		
Y Coord:	0		
Fname:	D.	Owner:	THOMPSON
Street #:	Not Reported	Road:	COTTON HILL RD
Town:	BELMONT	Map:	Not Reported
Parcel:	Not Reported	Date completed:	01/14/1987
Use:	Domestic	Reason Built:	New
Type:	Drilled in bedrock	Depth:	265
To Bedrock:	40	Casing:	50
Yield Test Meth:	Compressed air	Yield Test Dur:	1
Discharge::	9	Water Level:	30
Date Measured:	01/15/1987	Water Quality	Not Reported
Overburden Matl:	Gravel	Report Quality:	Fair
Locent:	1	Locacc:	4
Note:	Not Reported	Xnad83:	0
Ynad83:	0		

46
SW
1/2 - 1 Mile
Higher

NH WELLS **NHWS002015**

Masterid:	296	Pwsid:	0206010-001
System_id:	0206010	Source:	001
Name:	WOODWARDS SALES & SVS		
Address:	RTE 106		
Town:	BELMONT	System_act:	Inactive
System_typ:	Non-transient, non-community	Population:	30
Source_act:	Active	Source_des:	BRW, 18’ FROM SE CORNER BLDG IN UNDGRD PIT
Source_typ:	Groundwater	Well_depth:	400
Src_delin:	Not Reported		
Provol:	0		
Yield:	0	X_coord:	1038643.625
Y_coord:	365771.906	Longitude:	71 27 41.951
Latitude:	43 30 12.249		

O47
West
1/2 - 1 Mile
Lower

NH WELLS **NHWS003383**

Masterid:	53180	Pwsid:	1282010-002
System_id:	1282010	Source:	002
Name:	MOUNTAIN VIEW APTS		
Address:	MILE HILL/RTE 3		
Town:	LACONIA	System_act:	Active
System_typ:	Community	Population:	100
Source_act:	Active	Source_des:	BRW 2, 100' N OF PS
Source_typ:	Groundwater	Well_depth:	175
Src_delin:	fixed radius based on max daily withdrawal reported under DES sampling waiver program		
Provol:	0		
Yield:	12	X_coord:	1037070.125
Y_coord:	369085.969	Longitude:	71 28 03.200
Latitude:	43 30 45.019		

O48
West
1/2 - 1 Mile
Lower

NH WELLS **NHWS003074**

Masterid:	53180	Pwsid:	1282010-001
System_id:	1282010	Source:	001
Name:	MOUNTAIN VIEW APTS		
Address:	MILE HILL/RTE 3		
Town:	LACONIA	System_act:	Active
System_typ:	Community	Population:	100
Source_act:	Active	Source_des:	BRW 1, 100' W OF PS
Source_typ:	Groundwater	Well_depth:	175
Src_delin:	fixed radius based on max daily withdrawal reported under DES sampling waiver program		
Provol:	0		
Yield:	10	X_coord:	1036986.375
Y_coord:	368932.281	Longitude:	71 28 04.345
Latitude:	43 30 43.503		

P49
SW
1/2 - 1 Mile
Higher

FED USGS **USGS40000799266**

Org. Identifier:	USGS-NH		
Formal name:	USGS New Hampshire Water Science Center		
Monloc Identifier:	USGS-433000071273701		
Monloc name:	NH-BLW 180		
Monloc type:	Well		
Monloc desc:	Not Reported		
Huc code:	01070002	Drainagearea value:	Not Reported
Drainagearea Units:	Not Reported	Contrib drainagearea:	Not Reported
Contrib drainagearea units:	Not Reported	Latitude:	43.5000773
Longitude:	-71.4597951	Sourcemap scale:	Not Reported
Horiz Acc measure:	5	Horiz Acc measure units:	seconds
Horiz Collection method:	Interpolated from map		
Horiz coord refsys:	NAD83	Vert measure val:	860
Vert measure units:	feet	Vertacc measure val:	10
Vert accmeasure units:	feet		
Vertcollection method:	Interpolated from topographic map		
Vert coord refsys:	NGVD29	Countrycode:	US
Aquifername:	Not Reported		
Formation type:	Bedrock		

Aquifer type:	Not Reported		
Construction date:	19870000	Welldepth:	130
Welldepth units:	ft	Wellholedepth:	Not Reported
Wellholedepth units:	Not Reported		

Ground-water levels, Number of Measurements: 1

Date	Feet below Surface	Feet to Sealevel
1987-06-06	18.0	

P50
SW
1/2 - 1 Mile
Lower

NH WELLS **NH10002583**

Granitid:	0	Well:	819-133
Town Code:	021.0127	Elevation:	860
X Coord:	554729		
Y Coord:	0		
Fname:	P.	Owner:	BLANCHETTE
Street #:	Not Reported	Road:	PLUMMER HILL RD
Town:	BELMONT	Map:	13
Parcel:	14-1	Date completed:	06/06/1987
Use:	Domestic	Reason Built:	New
Type:	Drilled in bedrock	Depth:	130
To Bedrock:	4	Casing:	32
Yield Test Meth:	Bailed	Yield Test Dur:	-9999
Discharge::	6	Water Level:	18
Date Measured:	06/06/1987	Water Quality	Not Reported
Overburden Matl:	Till	Report Quality:	Good
Locent:	1	Locacc:	4
Note:	YL	Xnad83:	0
Ynad83:	0		

GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS
RADON

AREA RADON INFORMATION

State Database: NH Radon

Radon Test Results

County	Town	Num Tests	Avg Result	Max Result	Min Result
BELKNAP	ALTON	112	4.0	21.1	0.3
BELKNAP	BARNSTEAD	308	3.5	44.0	0.3
BELKNAP	BELMONT	227	2.3	12.5	0.3
BELKNAP	CENTER HARBOR	51	1.5	6.0	0.3
BELKNAP	GILFORD	112	1.9	11.2	0.3
BELKNAP	GILMANTON	161	2.3	22.3	0.3
BELKNAP	LACONIA	89	1.5	6.0	0.3
BELKNAP	MEREDITH	310	2.2	30.9	0.3
BELKNAP	NEW HAMPTON	55	2.4	13.5	0.3
BELKNAP	NORTHFIELD	254	2.1	26.6	0.3
BELKNAP	SANBORNTON	160	1.7	10.6	0.3
BELKNAP	TILTON	118	1.4	5.7	0.3

Federal EPA Radon Zone for BELKNAP County: 2

Note: Zone 1 indoor average level > 4 pCi/L.
: Zone 2 indoor average level >= 2 pCi/L and <= 4 pCi/L.
: Zone 3 indoor average level < 2 pCi/L.

Federal Area Radon Information for BELKNAP COUNTY, NH

Number of sites tested: 82

Area	Average Activity	% <4 pCi/L	% 4-20 pCi/L	% >20 pCi/L
Living Area	0.840 pCi/L	98%	2%	0%
Basement	1.970 pCi/L	74%	24%	1%

PHYSICAL SETTING SOURCE RECORDS SEARCHED

TOPOGRAPHIC INFORMATION

USGS 7.5' Digital Elevation Model (DEM)
Source: United States Geologic Survey
EDR acquired the USGS 7.5' Digital Elevation Model in 2002 and updated it in 2006. The 7.5 minute DEM corresponds to the USGS 1:24,000- and 1:25,000-scale topographic quadrangle maps. The DEM provides elevation data with consistent elevation units and projection.

Scanned Digital USGS 7.5' Topographic Map (DRG)
Source: United States Geologic Survey
A digital raster graphic (DRG) is a scanned image of a U.S. Geological Survey topographic map. The map images are made by scanning published paper maps on high-resolution scanners. The raster image is georeferenced and fit to the Universal Transverse Mercator (UTM) projection.

HYDROLOGIC INFORMATION

Flood Zone Data: This data, available in select counties across the country, was obtained by EDR in 2003 & 2011 from the Federal Emergency Management Agency (FEMA). Data depicts 100-year and 500-year flood zones as defined by FEMA.

NWI: National Wetlands Inventory. This data, available in select counties across the country, was obtained by EDR in 2002 and 2005 from the U.S. Fish and Wildlife Service.

State Wetlands Data: Wetlands Inventory
Source: Universitey of New Hampshire
Telephone: 603-862-1792

HYDROGEOLOGIC INFORMATION

AQUIFLOW[R] Information System
Source: EDR proprietary database of groundwater flow information
EDR has developed the AQUIFLOW Information System (AIS) to provide data on the general direction of groundwater flow at specific points. EDR has reviewed reports submitted to regulatory authorities at select sites and has extracted the date of the report, hydrogeologically determined groundwater flow direction and depth to water table information.

GEOLOGIC INFORMATION

Geologic Age and Rock Stratigraphic Unit
Source: P.G. Schruben, R.E. Arndt and W.J. Bawiec, Geology of the Conterminous U.S. at 1:2,500,000 Scale - A digital representation of the 1974 P.B. King and H.M. Beikman Map, USGS Digital Data Series DDS - 11 (1994).

STATSGO: State Soil Geographic Database
Source: Department of Agriculture, Natural Resources Conservation Services
The U.S. Department of Agriculture's (USDA) Natural Resources Conservation Service (NRCS) leads the national Conservation Soil Survey (NCSS) and is responsible for collecting, storing, maintaining and distributing soil survey information for privately owned lands in the United States. A soil map in a soil survey is a representation of soil patterns in a landscape. Soil maps for STATSGO are compiled by generalizing more detailed (SSURGO) soil survey maps.

SSURGO: Soil Survey Geographic Database
Source: Department of Agriculture, Natural Resources Conservation Services (NRCS)
Telephone: 800-672-5559
SSURGO is the most detailed level of mapping done by the Natural Resources Conservation Services, mapping scales generally range from 1:12,000 to 1:63,360. Field mapping methods using national standards are used to construct the soil maps in the Soil Survey Geographic (SSURGO) database. SSURGO digitizing duplicates the original soil survey maps. This level of mapping is designed for use by landowners, townships and county natural resource planning and management.

PHYSICAL SETTING SOURCE RECORDS SEARCHED

LOCAL / REGIONAL WATER AGENCY RECORDS

FEDERAL WATER WELLS

PWS: Public Water Systems
Source: EPA/Office of Drinking Water
Telephone: 202-564-3750
Public Water System data from the Federal Reporting Data System. A PWS is any water system which provides water to at least 25 people for at least 60 days annually. PWSs provide water from wells, rivers and other sources.

PWS ENF: Public Water Systems Violation and Enforcement Data
Source: EPA/Office of Drinking Water
Telephone: 202-564-3750
Violation and Enforcement data for Public Water Systems from the Safe Drinking Water Information System (SDWIS) after August 1995. Prior to August 1995, the data came from the Federal Reporting Data System (FRDS).

USGS Water Wells: USGS National Water Inventory System (NWIS)
This database contains descriptive information on sites where the USGS collects or has collected data on surface water and/or groundwater. The groundwater data includes information on wells, springs, and other sources of groundwater.

STATE RECORDS

Public Water Supply Sources
Source: Department of Environmental Services
Telephone: 603-271-3503

Well Locations
Source: University of New Hampshire, GRANIT
Telephone: 603-862-1792

OTHER STATE DATABASE INFORMATION

RADON

State Database: NH Radon
Source: Department of Health and Human Services
Telephone: 603-271-4610
Summary Table of Short-term Radon Test Results

Area Radon Information
Source: USGS
Telephone: 703-356-4020
The National Radon Database has been developed by the U.S. Environmental Protection Agency (USEPA) and is a compilation of the EPA/State Residential Radon Survey and the National Residential Radon Survey. The study covers the years 1986 - 1992. Where necessary data has been supplemented by information collected at private sources such as universities and research institutions.

EPA Radon Zones
Source: EPA
Telephone: 703-356-4020
Sections 307 & 309 of IRAA directed EPA to list and identify areas of U.S. with the potential for elevated indoor radon levels.

OTHER

Airport Landing Facilities: Private and public use landing facilities
Source: Federal Aviation Administration, 800-457-6656

Epicenters: World earthquake epicenters, Richter 5 or greater
Source: Department of Commerce, National Oceanic and Atmospheric Administration

PHYSICAL SETTING SOURCE RECORDS SEARCHED

STREET AND ADDRESS INFORMATION

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Frank Bean Road
Frank Bean
Laconia, NH 03246

Inquiry Number: 3582056.5
April 24, 2013

The EDR Aerial Photo Decade Package

EDR® Environmental Data Resources Inc

440 Wheelers Farms Road
Milford, CT 06461
800.352.0050
www.edrnet.com

EDR Aerial Photo Decade Package

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Date EDR Searched Historical Sources:

Aerial Photography April 24, 2013

Target Property:

Frank Bean

Laconia, NH 03246

Year	***Scale***	***Details***	***Source***
1954	Aerial Photograph. Scale: 1"=750'	Panel #: 43071-E4, Laconia, NH;/Flight Date: April 24, 1954	EDR
1981	Aerial Photograph. Scale: 1"=750'	Panel #: 43071-E4, Laconia, NH;/Flight Date: April 13, 1981	EDR
1986	Aerial Photograph. Scale: 1"=1000'	Panel #: 43071-E4, Laconia, NH;/Flight Date: May 13, 1986	EDR
1992	Aerial Photograph. Scale: 1"=750'	Panel #: 43071-E4, Laconia, NH;/Flight Date: April 29, 1992	EDR
1998	Aerial Photograph. Scale: 1"=500'	Panel #: 43071-E4, Laconia, NH;/DOQQ - acquisition dates: April 12, 1998	EDR
2008	Aerial Photograph. Scale: 1"=500'	Panel #: 43071-E4, Laconia, NH;/Flight Year: 2008	EDR
2009	Aerial Photograph. Scale: 1"=500'	Panel #: 43071-E4, Laconia, NH;/Flight Year: 2009	EDR
2011	Aerial Photograph. Scale: 1"=500'	Panel #: 43071-E4, Laconia, NH;/Flight Year: 2011	EDR
2012	Aerial Photograph. Scale: 1"=500'	Panel #: 43071-E4, Laconia, NH;/Flight Year: 2012	EDR

INQUIRY #: 3582056.5

YEAR: 1954

= 750'

N

INQUIRY #: 3582056.5
YEAR: 1981
= 750'
N

INQUIRY #: 3582056.5
YEAR: 1986
= 1000'
N

INQUIRY #: 3582056.5
YEAR: 1992
= 750'
N
EDR Environmental Data Resources Inc

INQUIRY #: 3582056.5
YEAR: 1998
= 500'
N
EDR Environmental Data Resources Inc

INQUIRY #: 3582056.5
YEAR: 2008
= 500'
N
EDR Environmental Data Resources Inc

INQUIRY #: 3582056.5
YEAR: 2009
= 500'
N

INQUIRY #: 3582056.5
YEAR: 2011
= 500'
N

INQUIRY #: 3582056.5
YEAR: 2012
= 500'
N

Frank Bean Road
Frank Bean
Laconia, NH 03246

Inquiry Number: 3582056.6
April 23, 2013

The EDR-City Directory Image Report

Environmental Data Resources Inc

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EXECUTIVE SUMMARY

DESCRIPTION

Environmental Data Resources, Inc.'s (EDR) City Directory Report is a screening tool designed to assist environmental professionals in evaluating potential liability on a target property resulting from past activities. EDR's City Directory Report includes a search of available city directory data at 5 year intervals.

RESEARCH SUMMARY

The following research sources were consulted in the preparation of this report. A check mark indicates where information was identified in the source and provided in this report.

Year	*Target Street*	*Cross Street*	*Source*
2009	☑	☐	Polk's City Directory
1973	☑	☐	Manning's City Directory
1967	☐	☐	Manning's City Directory

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FINDINGS

TARGET PROPERTY STREET

Frank Bean
Laconia, NH 03246

Year	*CD Image*	*Source*	
Frank Bean			
2009	pg A1	Polk's City Directory	
1973	pg A2	Manning's City Directory	
1967	-	Manning's City Directory	Target and Adjoining not listed in Source

FINDINGS

CROSS STREETS

No Cross Streets Identified

City Directory Images

Target Street	Cross Street	Source
✓	-	Polk's City Directory

Frank Bean 2009

'1 Grantz Gary & Donna [5] ♠ 603-293-0838
72 Schnip Hugh A & Wendy B [6] ♠ 603-293-8057
HOUSEHOLDS 11

FRANCES CT (MEREDITH)
• ZIP CODE 03253 CAR-RT R003
21 ⊗ Spiegler Robin 603-677-7211
HOUSEHOLDS 1

FRANK BEAN RD (LACONIA)-FROM 489 PROVINCE RD NORTHEAST
• ZIP CODE 03246 CAR-RT R011
25 HAMILTON PRECISION LLC mach shops 603-524-7622
89 REED'S AUTO WRECKING CO auto parts- used & rebuilt
.....603-524-1622
Reed William & Sherry L [16] ♠
113 Reed Raymond R [7] ♠ 603-524-2667
120 Paquin Alexander J III & Beverly A [17] ♠ 603-524-1985
136 GIGUERE ELECTRIC INC electric contractors 603-524-2769
GIGUERE MINI STORAGE storage- household & commercial
.....603-524-2769
SHANES LAWNCARE & LANDSCAPING landscape contractors
.....603-528-4000
144 LACONIA MOTORBIKE LLC motorcycles & motor scooters
.....603-527-9275
+ COTTON HILL RD INTERSECTS
+ COUNTRY CLUB RD INTERSECTS
BUSINESSES 6 **HOUSEHOLDS 3**

FRANK C GILMAN HWY (ALTON)
• ZIP CODE 03809 CAR-RT H072
10 ATS APPLIED TECHNICAL SVC engineers- consulting
.....603-875-5466
36 Zitzow Warren A [7] ♠ 603-875-6758
Zitzow L 603-875-6758
40 Allard Shannon M [5] ♠ 603-875-6984
55 Bastien Donna J [6] ♠
67 ALTON WATER WORKS DEPT water & sewage companies
.....603-875-4

Target Street	Cross Street	Source
✓	-	Manning's City Directory

Frank Bean 1973

12 Margt C Pickering
12 Zane Morrison 1
15 Floyd Dearborn 366-5527
17 Arth B Ellis △ 366-4665 1
19 Danl J Donahue 366-4794 1
25 ◎ Richd A Marcoux △ 366-4905 1
1

FRANK BEAN RD fr Province to Gilford line Ward 5 O-5 1
Vacant (L) 1
Mrs Pauline Blackey (L)
John J Jenot (R)
Geo E Benoit (tr) (R) 2
—Cotton Hill rd crosses 2
Mrs Barbara Flanders
◎ Calvin M Tibbets (L) △ 524-0475
—Perkins dr begins 2
◎ Maynard Libby △ 524-1727 2
Nathaniel M Johnson 2
Conrad Carignan 524-5942 2
—Gilford Town line

FRANKLIN (L'pt) fr Elm at McGrath sq northwesterly to Bell Ward 6 I-19 G
Left side even numbers L
4 ◎ Frank Isabelle
6 Mrs Ethel F Eastwood
10 David A Hough
12 Vacant
5 Vacant

Frank Bean Road
Frank Bean
Laconia, NH 03246

Inquiry Number: 3582056.4
April 22, 2013

EDR Historical Topographic Map Report

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EDR Historical Topographic Map Report

Environmental Data Resources, Inc.s (EDR) Historical Topographic Map Report is designed to assist professionals in evaluating potential liability on a target property resulting from past activities. EDRs Historical Topographic Map Report includes a search of a collection of public and private color historical topographic maps, dating back to the early 1900s.

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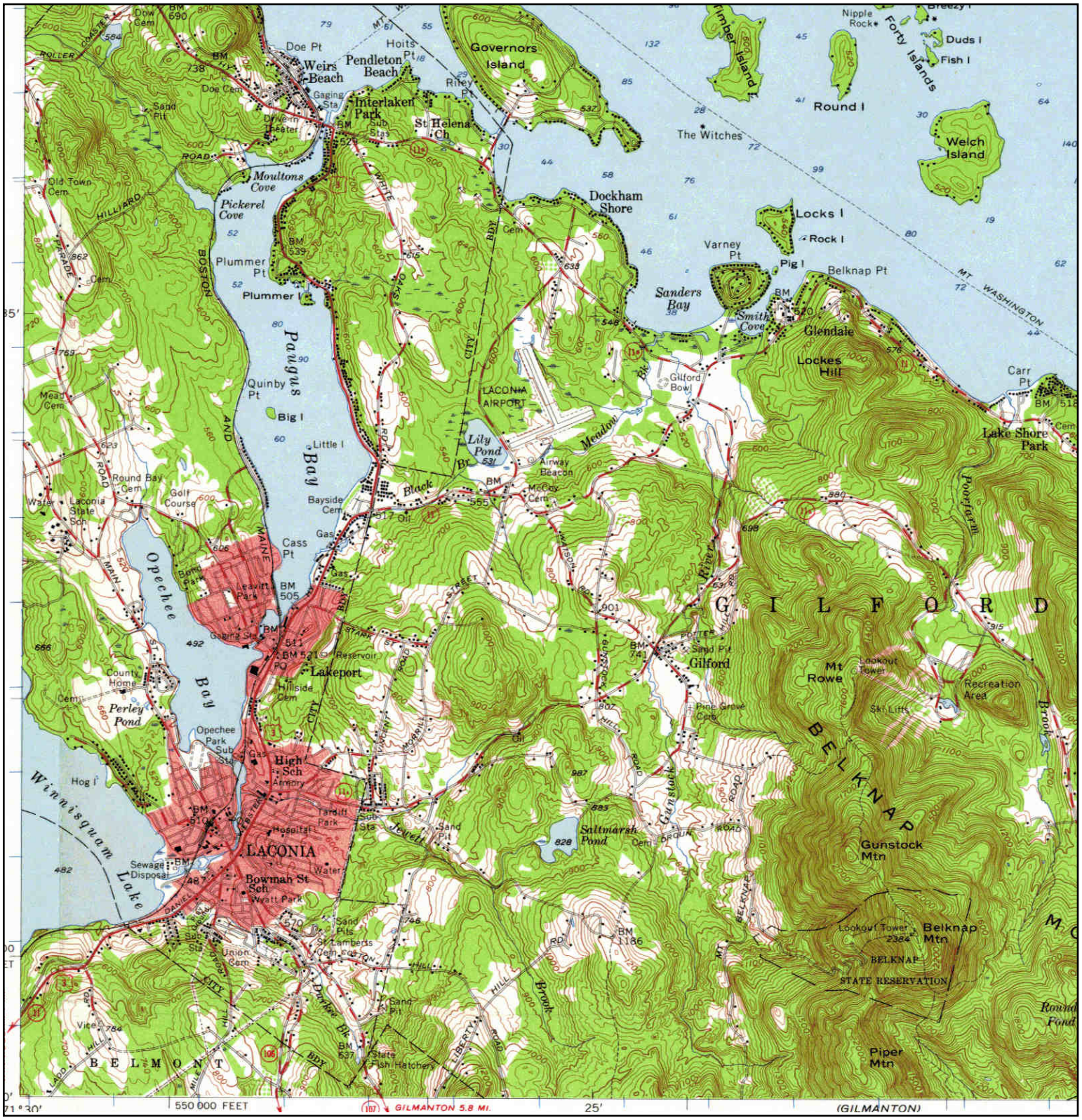
Historical Topographic Map

N	TARGET QUAD NAME: WINNIPESAUKEE MAP YEAR: 1909 SERIES: 15 SCALE: 1:62500	SITE NAME: Frank Bean Road ADDRESS: Frank Bean Laconia, NH 03246 LAT/LONG: 43.5116 / -71.4484	CLIENT: Sovereign Consulting CONTACT: Mark Henderson INQUIRY#: 3582056.4 RESEARCH DATE: 04/22/2013

Historical Topographic Map



N	TARGET QUAD NAME: WINNIPESAUKEE MAP YEAR: 1956 SERIES: 15 SCALE: 1:62500	SITE NAME: Frank Bean Road ADDRESS: Frank Bean Laconia, NH 03246 LAT/LONG: 43.5116 / -71.4484	CLIENT: Sovereign Consulting CONTACT: Mark Henderson INQUIRY#: 3582056.4 RESEARCH DATE: 04/22/2013

Historical Topographic Map

N	TARGET QUAD NAME: LACONIA MAP YEAR: 1987 PROVISIONAL SERIES: 7.5 SCALE: 1:24000	SITE NAME: Frank Bean Road ADDRESS: Frank Bean Laconia, NH 03246 LAT/LONG: 43.5116 / -71.4484	CLIENT: Sovereign Consulting CONTACT: Mark Henderson INQUIRY#: 3582056.4 RESEARCH DATE: 04/22/2013

Frank Bean Road
Frank Bean
Laconia, NH 03246

Inquiry Number: 3582056.3
April 22, 2013

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4/22/13

Site Name:
Frank Bean Road
Frank Bean
Laconia, NH 03246

Client Name:
Sovereign Consulting
7 Hills Avenue
Concord, NH 03301

EDR Inquiry # 3582056.3

Contact: Mark Henderson

EDR® Environmental Data Resources Inc

The complete Sanborn Library collection has been searched by EDR, and fire insurance maps covering the target property location provided by Sovereign Consulting were identified for the years listed below. The certified Sanborn Library search results in this report can be authenticated by visiting www.edrnet.com/sanborn and entering the certification number. Only Environmental Data Resources Inc. (EDR) is authorized to grant rights for commercial reproduction of maps by Sanborn Library LLC, the copyright holder for the collection.

Certified Sanborn Results:

Site Name: Frank Bean Road
Address: Frank Bean
City, State, Zip: Laconia, NH 03246
Cross Street:
P.O. # NA
Project: Frank Bean Road
Certification # 74B6-4F02-AB24

Sanborn® Library search results
Certification # 74B6-4F02-AB24

UNMAPPED PROPERTY

This report certifies that the complete holdings of the Sanborn Library, LLC collection have been searched based on client supplied target property information, and fire insurance maps covering the target property were not found.

The Sanborn Library includes more than 1.2 million Sanborn fire insurance maps, which track historical property usage in approximately 12,000 American cities and towns. Collections searched:

- ✔ Library of Congress
- ✔ University Publications of America
- ✔ EDR Private Collection

The Sanborn Library LLC Since 1866™

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ATTACHMENT D

HAGER-RICHTER
GEOSCIENCE, INC.

GEOPHYSICAL SURVEY
FRANK BEAN ROAD BURN DUMP
LACONIA, NEW HAMPSHIRE

Prepared for:

Sovereign Consulting, Inc.
7 Hills Avenue
Concord, New Hampshire 03301

Prepared by:

Hager-Richter Geoscience, Inc.
8 Industrial Way - D10
Salem, New Hampshire 03079

File 13SG10
September, 2013

HAGER-RICHTER
GEOSCIENCE, INC.

CONSULTANTS IN GEOLOGY AND GEOPHYSICS
8 INDUSTRIAL WAY - D10
SALEM, NEW HAMPSHIRE 03079-5820
TELEPHONE (603) 893-9944
FAX (603) 893-8313

September 13, 2013
File 13SG10

Mark R. Henderson, PG
Program Manager
Sovereign Consulting, Inc.
7 Hills Avenue
Concord, New Hampshire 03301

Tel: 603-856-8644 ext. 223
Cell: 603-236-4321
Email: mhenderson@sovcon.com

RE: Geophysical Survey
Frank Bean Road Burn Dump
Laconia, New Hampshire

Dear Mr. Henderson:

In this report, we summarize the results of a geophysical investigation conducted by Hager-Richter Geoscience, Inc. (Hager-Richter) at the Frank Bean Road Burn Dump located in Laconia, New Hampshire for Sovereign Consulting, Inc. (Sovereign). The scope of work and area of interest were specified by Sovereign.

INTRODUCTION

The Site is a former burn dump that includes three contiguous properties located on the west side of Frank Bean Road, and one property located on the east side of Frank Bean Road. The property located on the east side of Frank Bean Road at 98 Old Morin Road in Laconia, New Hampshire was the subject of this survey. According to information provided by Sovereign, the former burn dump was located in abandoned portions of a sandpit during the 1950's. The burn dump was subsequently closed and subdivided into residential and commercial lots. Sovereign was interested in determining, if possible, both the lateral extent and vertical thickness of the burn dump materials. The geophysical survey was conducted using the frequency domain electromagnetic induction terrain conductivity (EM31) and electrical resistivity imaging (ERI) methods.

The area of the investigation for the geophysical survey was specified by Sovereign as the accessible portions of the residential property located at 98 Old Morin Road. The Site was mostly flat and open with a residential structure, two out buildings, and several vehicles present. Figure 2 shows the area of interest at the site.

No site-specific geologic data such as boring logs were provided by Sovereign. Boring logs or information about the surficial stratigraphy including the thickness of the overburden or landfill materials at the site are typically very helpful in interpreting resistivity profiles. In the

absence of such supporting data, the interpretation of ERI data may be limited to generalizations about the subsurface geology.

OBJECTIVE

The objective of the geophysical survey was to detect, and if detected, to determine the thickness and lateral extent of landfill materials that may be present in the subsurface at the site.

THE SURVEY

Michael Howley and Bryan Carnahan of Hager-Richter conducted the geophysical survey on August 14, 2013. The project was coordinated with Mr. Mark Henderson, P.G., of Sovereign, who was on-site for the initiation of the survey and specified the area of interest. Mr. Dylan Bush of Sovereign was on-site for the duration of the survey. Data analysis and interpretation were completed at the Hager-Richter offices. Original data and field notes reside in the Hager-Richter files and will be retained for a minimum of three years.

The geophysical survey was conducted using the frequency domain electromagnetic induction terrain conductivity (EM31) method and the Electrical Resistivity Imaging (ERI) method, both of which are described below. The positions of the resistivity survey lines and EM31 transects were recorded using a Trimble GeoXH GPS receiver outfitted with a Zephyr external antenna. The locations of both the EM31 traverses and ERI lines are shown on Figures 3 and 4, respectively.

EQUIPMENT & PROCEDURES

Frequency Domain Electromagnetic Induction Terrain Conductivity (EM31). The electromagnetic induction terrain conductivity survey was conducted using a Geonics Model EM31-MK2 terrain conductivity meter, the industry standard for this type of geophysical survey. This unit is an induction type instrument and provides measurement of both the quadrature-phase and in-phase components of terrain conductivity without ground electrodes or contact. The quadrature-phase data, also know as apparent conductivity data, are useful for detecting the presence of anomalously conductive ground, which might be caused by the presence of objects with properties unlike those of the natural materials on site, such as fill. The in-phase component data, on the other hand, are only used to interpret the presence of metal objects. The data for both components are recorded on a digital data logger.

The EM31 is calibrated to read ground conductivity directly in millisiemens per meter with a resolution of 2% of full scale and an accuracy of 1 mmho/meter. The nominal depth of earth sampled by the EM31 in the vertical dipole mode is about 18 feet. The EM31 survey was conducted in substantial accordance with ASTM D 6639.

EM31 data were acquired with the boom of the 12-foot long instrument oriented parallel to the survey lines. The system was checked for connectivity and shake tests were conducted once the system was setup. EM31 data were acquired with the instrument connected to the GPS output and GPS positions were recorded at one-second intervals. The EM31 data were acquired in time mode where the data are acquired at fixed time intervals of 0.2 second. Fiducial marks are added to the data at the crossing locations of site features to provide positioning information.

Raw EM31 data with GPS locations were imported from the data logger using DAT31W, software developed by the equipment manufacturer. The data are corrected for instrument time lag to properly position the data. The data are output in X,Y,Z1,and Z2 format where X and Y are GPS coordinates and Z1 and Z2 are EM31 response for the quadrature phase and in-phase components, respectively. The data were reviewed for short and long wavelength effects caused by geology, instrument drift, or instrument noise. The data did not require correction for data shifts and no electronic spikes were present in the data.

Electrical Resistivity Imaging (ERI). We use an Advanced Geosciences, Inc. (AGI) Super Sting R8 earth resistivity instrument with an addressable multi-electrode system for the ERI survey. The Super Sting R8 allows automatic measurement of several types of array, i.e., most combinations of current and voltage electrode connections can be controlled by the Super Sting system. Fifty-six electrodes, or any multiple of 14 electrodes (with a maximum of 252 electrodes) can be used with the Super Sting system.

The Super Sting R8 earth resistivity instrument measures the contact resistance of each electrode, and, if the resistance of any electrode is judged to be excessive, salt water is poured on the ground around that electrode to decrease the resistance. After the contact resistance of all electrodes is satisfactory, the data are acquired under program control. The electrodes are moved to the next survey line or advanced along the traverse and the procedures repeated.

The resulting data sets are inverted using AGI EarthImager 2D, commercially licensed software, to create two-dimensional resistivity models. Apparent resistivity values are calculated with a forward modeling subroutine, and a smoothness-constrained least-squares optimization routine is used to invert the data. Both finite-difference and finite-element forward modeling techniques are available in the software.

Although there are many ways to display the results of 2D resistivity inversions, the essential element is a plot of the distribution of resistivity as a function of depth and distance along the survey line. The choice of scales affects the appearance of the plots and further emphasizes particular aspects of the results, and the choice is most commonly between linear and logarithmic scales, although others could be made. A resistivity image profile can be made to highlight either local detail or regional information. The nominal depth of investigation is approximately ten times the electrode spacing.

The interpretation of resistivity plots is based on the experience of the interpreter, his/her knowledge of typical values or ranges of values of resistivity for the types of geologic materials expected below a survey line. The interpreter uses the measured values to infer what materials are present - including soil and/or rock types, porosity, permeability, presence or absence of contamination, the presence of such geological features as faults and fracture zones, and the presence of such man-made features as tar pits, concrete walls, slurry walls, and former lagoons.

ERI data for the current project were acquired using a dipole-dipole array along two traverses totaling 605 feet. The ERI traverses had lengths of 275 feet (ERI Line A) and 330 feet (ERI Line B), and used electrode spacings of 5 feet (ERI Line A), and 6 feet (ERI Line B). Data for ERI Lines A and B were acquired using 56 electrodes. The electrode spacings used for each ERI line were selected in the field at the time of the survey on the basis of space available for the transect and to maximize the number of electrodes used for data acquisition. The locations of the ERI traverses are shown on Figure 4.

GPS. DGPS data were acquired for the survey using a Trimble GeoXH coupled to a Zephyr external antenna. Seven to ten satellites were accessible and used for the positioning. In addition, the satellite-based augmentation system (SBAS) was used to provide real-time differentially corrected GPS data. Positional dilution of precision, PDOP, is a measure of the satellite geometry and repeatability of measurements from many satellites. When this number is low, the precision and reliability of the DGPS data is high. For the current survey, PDOP values were in the range of 1-2. At this range, positional measurements are considered accurate enough to meet all but the most sensitive applications. Raw horizontal precision for DGPS data acquired in the open areas ranged from 0.9 to 1.8 feet.

The GPS data were downloaded in the office and were post-processed using Trimble GPS Pathfinder Office. Post-processing consists of remotely differentially correcting the raw DGPS data using base station data from nearby Base Provider Stations. The differential correction of the data improved the horizontal precision of the data from a range of 0.9 to 1.8 feet to a range of 0.3 to 0.6 feet.

LIMITATIONS OF THE METHODS

Frequency Domain Electromagnetic Induction Terrain Conductivity (EM31). All electromagnetic geophysical methods are affected by the presence of power lines and surface metal objects (steel sided buildings, dumpsters, vehicles, railroad tracks, reinforced concrete, etc.) Where such are present, the effects of materials in the subsurface may be masked, and firm conclusions about subsurface conditions cannot be made.

Detection and identification should be clearly differentiated. Detection is the recognition of the presence of a metal object, and the electromagnetic method is excellent for such purposes.

Identification, on the other hand, is determination of the nature of the causative body (i.e., what is the body -- a cache of drums, UST, automobile, white goods, etc.?). Although the EM data cannot be used to *identify* all buried metal objects, they provide excellent guides to the identification of some objects. For example, buried metal utilities produce anomalies with lengths many times their widths.

The detection of any target, whether an object or change in geological conditions, is predicated in the assumption of a marked contrast in electrical conductivity. The EM31 instrument response varies with the orientation of the dipoles. In the horizontal dipole mode, the instrument is more sensitive to near-surface conductive layers than it is in the vertical dipole mode.

Electrical Resistivity Imaging (ERI). As with any of the electrical geophysical methods, resistivity data are subject to certain limitations, including site surface and subsurface conditions and structures, electrical and "geological" noise, and target depth and size. Interference from such cultural features as buildings, fencing, and underground and overhead power lines is common at many sites, particularly at active industrial sites. Thus, for certain applications, the use of the resistivity method in urban settings might be inappropriate.

The subsurface is three dimensional in character, and although the resistivity data are acquired along a line, the data are affected by resistivity changes off-line. Therefore, unless there are parallel survey lines that are spaced appropriately, resistivity changes off-line may be interpreted as changes below the survey line. This limitation is particularly significant for single survey lines. A further limitation of the resistivity method arises at the ends of a survey line where the data density is necessarily reduced.

The target depth, size, and of course, resistivity contrast may pose limitations. These three parameters, generally characterized as large or small , are important in the survey design[1], and extreme values can limit the usefulness of the resistivity method. For example: a small target, a granite boulder 2 ft in diameter at a large depth of 20 ft or more, even with very high resistivity contrast, 10^5 Ohm-m in a medium of 0.2 Ohm-m, cannot be detected. A target of reasonable size, a granite boulder 2 ft in diameter at a shallow depth of 6 ft or less, may not be detectable where the resistivity contrast is low, 10^5 Ohm-m in a medium of 10^4 Ohm-m.

[1] The parameters depth and size scale to the electrode spacing. A "large depth" is any depth greater than 10 times the electrode spacing. A "small depth" is any depth less than 3 times the electrode spacing. Depths less than 10 but greater than 3 times the electrode spacing are termed "intermediate depths." A "large size" is any size greater than 2½ times the electrode spacing. A "small size" is any size less than 1 times the electrode spacing. Sizes less than 2½ but greater than 1 times the electrode spacing are termed "intermediate sizes." Resistivity contrast refers to the ratio of the resistivity of one material to that of the second material. A large resistivity contrast is any such ratio of at least 100. A small resistivity contrast is any such ratio no greater than 0.5. Ratios less than 100 but greater than 0.5 are termed "intermediate ratios."

RESULTS

The geophysical survey consisted of a Frequency Domain Electromagnetic Induction Terrain Conductivity (EM31) survey and two Electrical Resistivity Imaging (ERI) survey lines at a residential property located on a portion of the former burn dump at 98 Old Morin Road in Laconia, New Hampshire. Figure 3 shows the locations of the EM31 traverses and the EM31 apparent conductivity and in-phase component data. The interpretation of the EM31 data is shown in Figure 4, along with the locations of ERI Lines A and B at the site. The resistivity profiles and interpretation of the profiles for ERI Lines A and B are shown in Figure 5.

EM31. EM31 data were acquired at approximately 1-foot intervals along survey lines spaced approximately 10 feet apart across the accessible portions of the survey area. As discussed above, the EM31 measures both the quadrature-phase and in-phase components of terrain conductivity. The quadrature-phase data, also known as apparent conductivity data, are useful for detecting the presence of anomalously conductive soil and/or groundwater, which might be caused by the presence of objects or groundwater with properties unlike those of the natural materials on site, such as landfill materials and non-metallic waste. The in-phase component data, on the other hand, are *only* used to interpret the presence of metal objects.

Background apparent conductivity values range from approximately 0 to 5 mS/m in areas considered unaffected by buried or surface metal objects. As can be seen on Figure 3, surface interference and subsurface utilities have a large effect on the measured apparent conductivity. One apparent conductivity anomaly typical of an area of concentrated non-metallic fill or an area of elevated groundwater conductivity is present. The apparent conductivity anomaly is in an area unaffected by surface interference and subsurface utilities, and its location is indicated on Figure 4. The anomaly is attributed to the municipal landfill present on the east side of Old Morin Road. No firm conclusions can be made regarding changes in geology or groundwater conductivity on the property at 98 Old Morin Road due to the limited areas of apparent conductivity not affected by cultural features.

The in-phase component of the EM31 survey can be used to detect areas of buried metal. All of the high amplitude EM31 anomalies evident in the in-phase component shown in Figure 3 are associated with surface features such as buildings, fences, utility poles, drainage grates, and vehicles, and their locations are shown as blue hatched areas on Figure 4. We note that the presence or absence of subsurface metal objects in such areas cannot be determined on the basis of the EM data alone due to the anomaly caused by the surface metal objects.

Several moderate to low amplitude EM31 in-phase anomalies not attributable to surface metal objects are present. We attribute such anomalies to the presence of buried metal, and their locations are shown as red crosshatched areas on Figure 4. Areas of buried fill containing metal were not detected by the EM survey.

ERI. The resistivity profiles shown in Figure 5 are resistivity sections, i.e., plots of the distribution of resistivity as a function of depth and distance along the survey lines, modeled from the measured apparent resistivity of the subsurface. The resistivity profiles for ERI lines A and B are shown to a maximum depth of 25 and 30 feet, respectively, to remove deeper anomalies attributed to power lines present along Frank Bean Road. The interpretation of the resistivity profiles is shown along with the resistivity sections for ERI Lines A and B in Figure 5.

Low resistivity anomalies attributed to the presence of both surface and subsurface cultural objects are present in both of the resistivity profiles shown in Figure 5. The locations of a drain line and house foundation located crossing or located near the ERI lines were recorded at the time of the survey. The resulting anomalies in the ERI profiles are indicated as such on the interpretation of the ERI profiles. No other information about the subsurface can be determined for areas having anomalies caused by cultural objects.

In general, the resistivity profiles shown in Figure 5 are characterized by moderate resistivity soils overlying a discontinuous, relatively low resistivity layer, overlying high resistivity bedrock. The possible bedrock surface is shown on Figure 5 as a dashed line where the bedrock surface is indicated by a relatively sharp increase in resistivity values. In areas where the elevation of the bedrock surface is less clear, due to a gradual change in resistivity values or the presence of a low resistivity anomaly near the interpreted bedrock surface, the bedrock surface is not shown.

The discontinuous, relatively low resistivity layer observed in both ERI Lines A and B is attributed to the presence of landfill materials. The interpreted layer of landfill material varies in thickness from approximately 8 feet to greater than 30 feet, as shown on Figure 5. As stated above, the presence of low resistivity anomalies attributed to cultural features precludes the interpretation of the landfill materials in areas of anomalies due to cultural features.

Without boring logs or other geologic data, one can not determine firmly whether the interpreted landfill materials detected in this survey are actually due to the presence of landfill materials or saturated sand and gravel. The potential overlapping ranges of resistivity values for mean that the interpretation is necessarily non-unique. If boring logs or other geologic data become available in the near future, it be possible to re-examine the ERI results to increase the confidence in the interpretations for the Site.

CONCLUSIONS

On the basis of the Electrical Resistivity Imaging and Frequency Domain Electro-magnetic Induction Terrain Conductivity survey conducted at the former Frank Bean Road Burn Dump in Laconia, New Hampshire for Sovereign Consulting, Inc., we conclude the following:

- An area of elevated apparent conductivity attributed to the municipal landfill present on the east side of Old Morin Road was detected by the EM31 survey

- Two areas of buried metal objects were detected by the EM31 survey. One such object is interpreted to be a metallic utility.

- A discontinuous low resistivity anomaly interpreted to be caused by the presence of landfill materials was detected in the ERI survey.

- Several low-resistivity anomalies detected by the ERI method are attributed to the presence of cultural objects such as a drain line and a building foundation.

LIMITATIONS ON USE OF THE REPORT

This Report was prepared for the exclusive use of Sovereign Consulting, Inc. (Client). No other party shall be entitled to rely on this Report or any information, documents, records, data, interpretations, advice or opinions given to Client by Hager-Richter Geoscience, Inc. (H-R) in the performance of its work. The Report relates solely to the specific project for which H-R has been retained and shall not be used or relied upon by Client or any third party for any variation or extension of this project, any other project or any other purpose without the express written permission of H-R. Any unpermitted use by Client or any third party shall be at Client's or such third party's own risk and without any liability to H-R.

H-R has used reasonable care, skill, competence and judgment in the preparation of this Report consistent with professional standards for those providing similar services at the same time, in the same locale, and under like circumstances. Unless otherwise stated, the work performed by H-R should be understood to be exploratory and interpretational in character and any results, findings or recommendations contained in this Report or resulting from the work proposed may include decisions which are judgmental in nature and not necessarily based solely on pure science or engineering. It should be noted that our conclusions might be modified if subsurface conditions were better delineated with additional subsurface exploration including, but not limited to, test pits, soil borings with collection of soil and water samples, and laboratory testing.

Except as expressly provided in this limitations section, H-R makes no other representation or warranty of any kind whatsoever, oral or written, expressed or implied; and all implied warranties of merchantability and fitness for a particular purpose, are hereby disclaimed.

If you have any questions or comments on this letter Report, please contact us at your convenience. It has been a pleasure to work with Sovereign Consulting on this project. We look forward to working with you again in the near future.

Sincerely yours,
HAGER-RICHTER GEOSCIENCE, INC.

Michael Howley
Geologist & Geophysicist

Dorothy Richter, P.G.
President

Attachments: Figures 1-5

N

APPROXIMATE SCALE (feet)

0 1000 2000

LOCATION

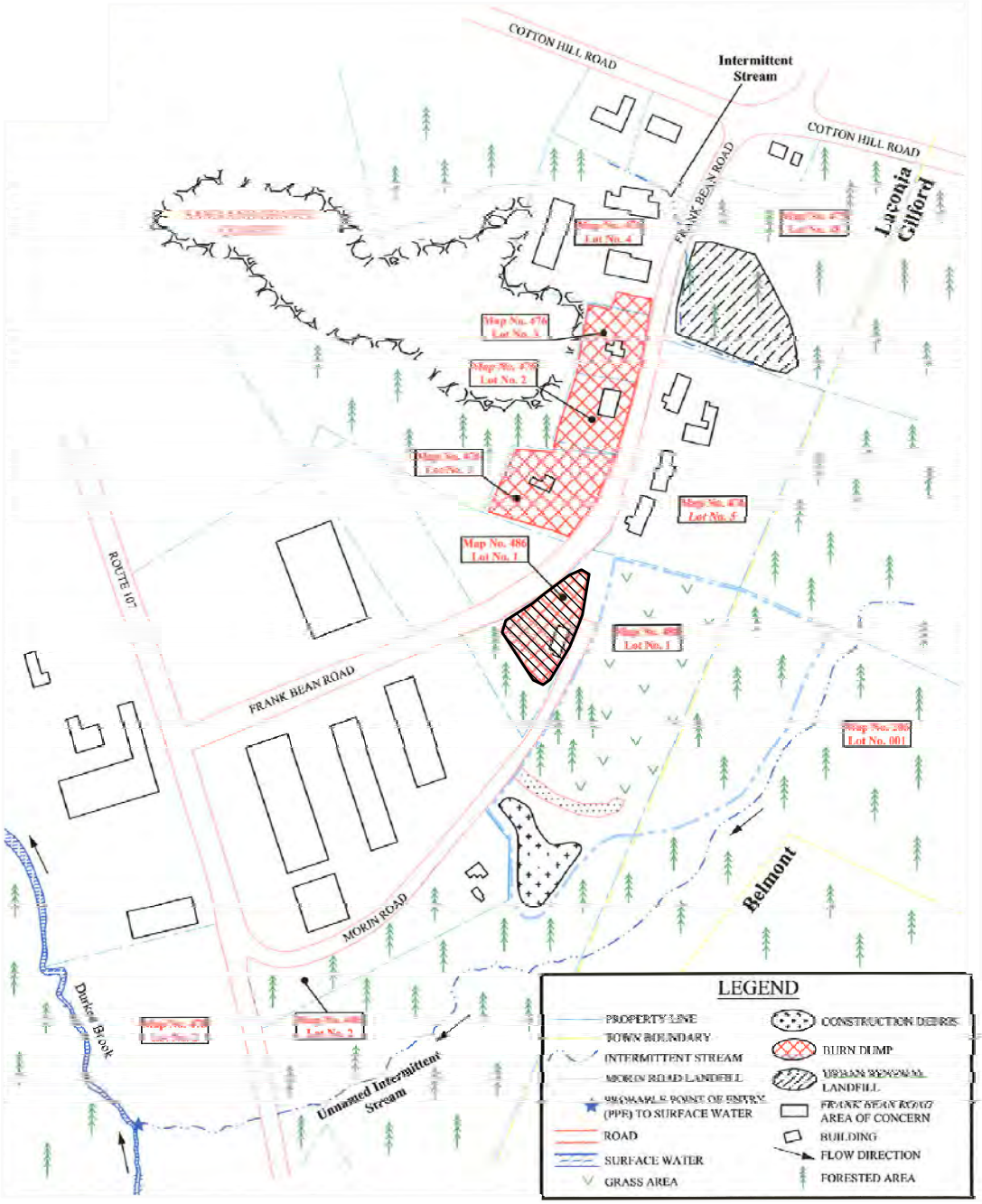
NOTE:

Modified from Google Earth Pro aerial photograph.

Figure 1
General Site Location
Frank Bean Road Burn Dump
Laconia, New Hampshire

File 13SG10	September, 2013

HAGER–RICHTER GEOSCIENCE, INC.
Salem, New Hampshire



NOTE:

Modified from site sketch provided by Sovereign Consulting, Inc., identified as FrankBeanRoad siteplan.pdf.

LEGEND

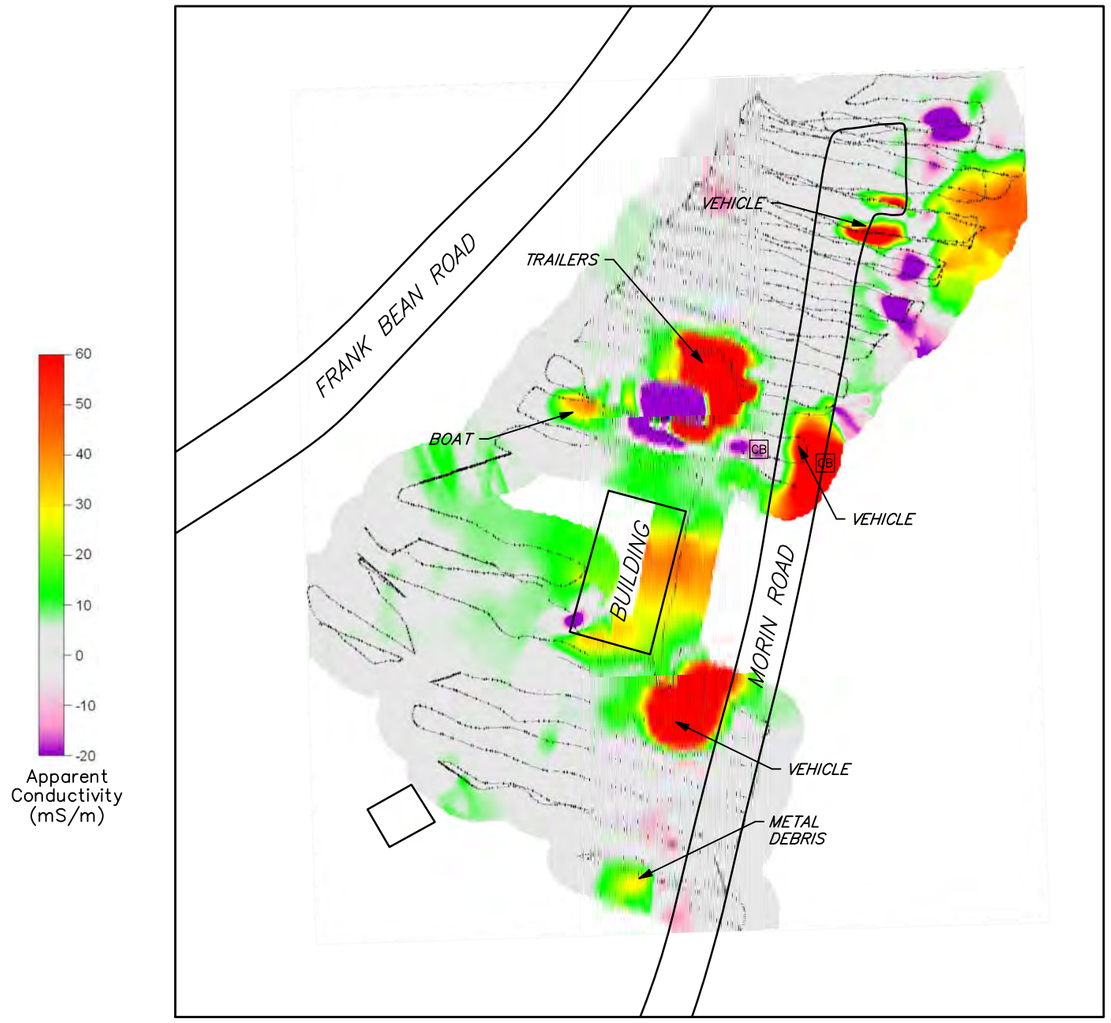
APPROXIMATE LIMITS OF GEOPHYSICAL SURVEY AREA

NOT TO SCALE

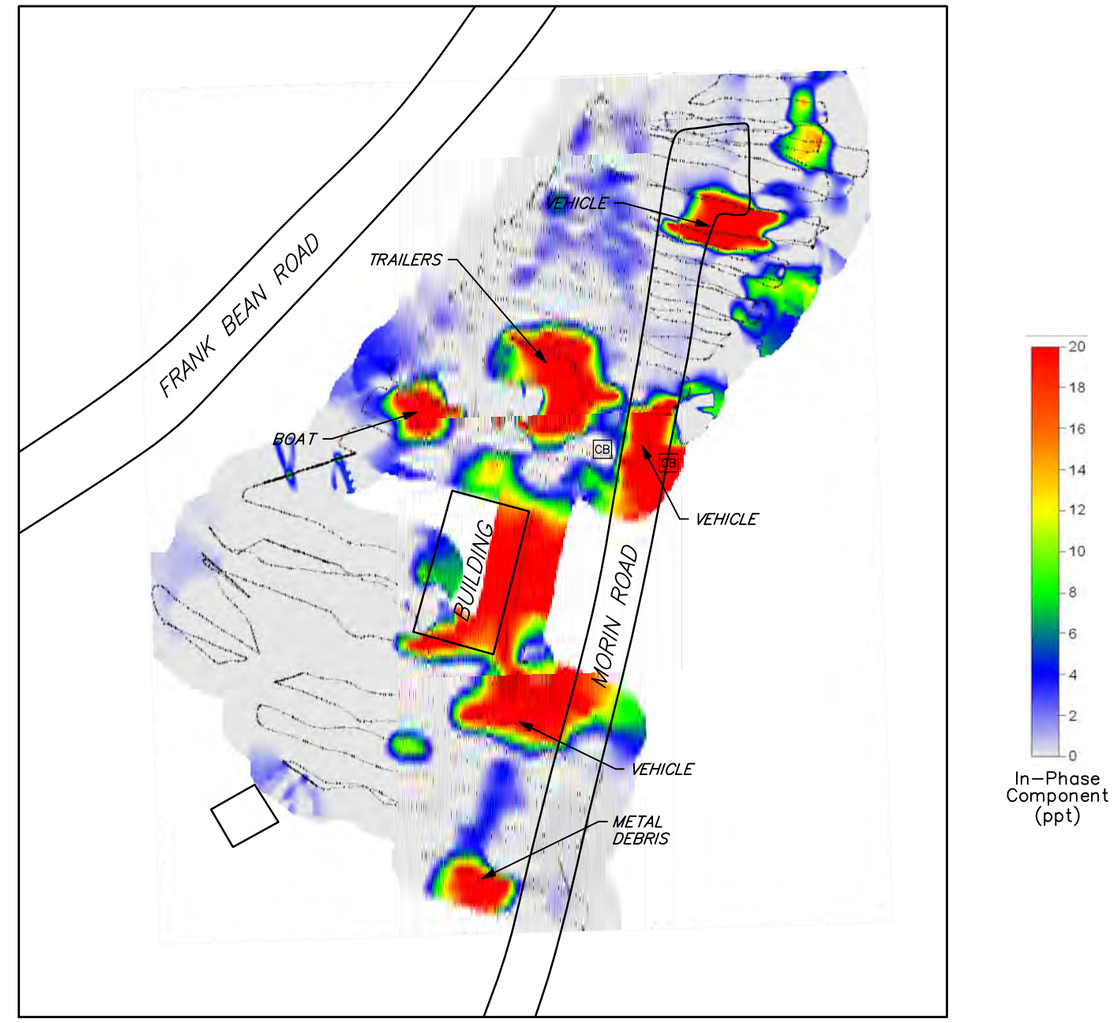
Figure 2
Site Sketch
Frank Bean Road Burn Dump
Laconia, New Hampshire

File 13SG10	September, 2013

HAGER–RICHTER GEOSCIENCE, INC.
Salem, New Hampshire



APPARENT CONDUCTIVITY



IN-PHASE COMPONENT

NOTES:

1. Site sketch generated from Google Earth Pro aerial photograph. Locations of buildings & roads are approximate.
2. Data were acquired with a Geonics EM31-MK2 in vertical dipole mode with boom parallel to traverse line where possible.
3. Locations of Data Stations determined by GPS during EM data acquisition.

LEGEND

· DATA STATIONS

CB CATCH BASIN

SCALE (feet)

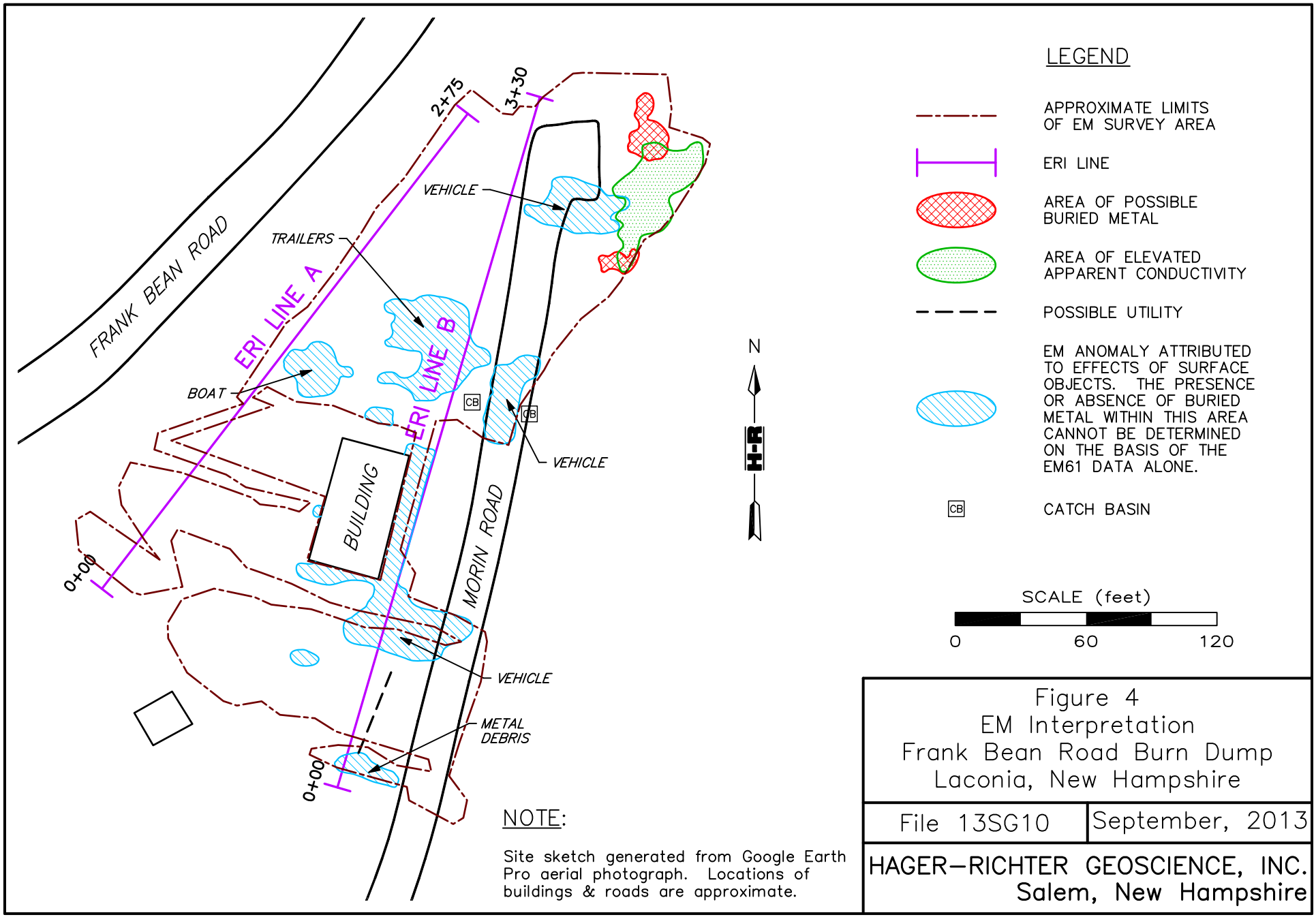
0 60 120

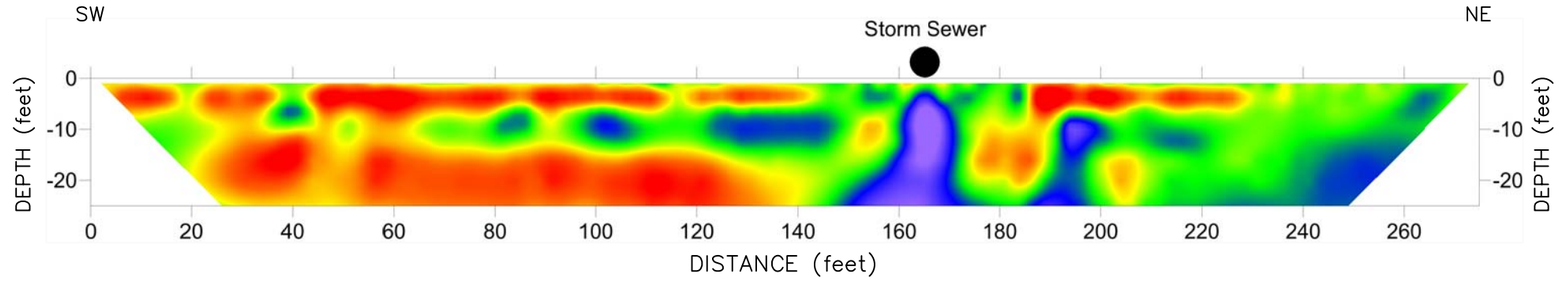
N

Figure 3
EM31 Survey
Frank Bean Road Burn Dump
Laconia, New Hampshire

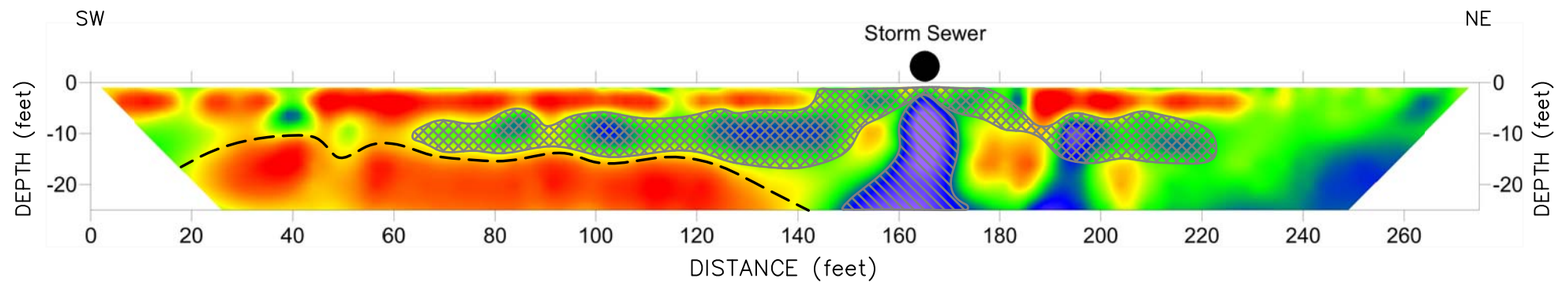
File 13SG10 | September, 2013

HAGER-RICHTER GEOSCIENCE, INC.
Salem, New Hampshire

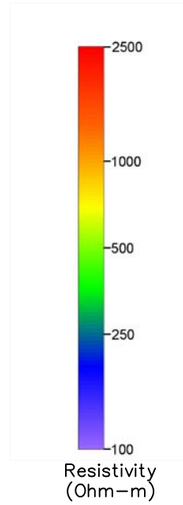

FRANK BEAN ROAD
ERI LINE A
ERI LINE B
2+75
3+30
0+00
0+00
VEHICLE
TRAILERS
BOAT
BUILDING
CB
CB
VEHICLE
MORIN ROAD
VEHICLE
METAL DEBRIS
N
H-R
LEGEND
APPROXIMATE LIMITS OF EM SURVEY AREA
ERI LINE
AREA OF POSSIBLE BURIED METAL
AREA OF ELEVATED APPARENT CONDUCTIVITY
POSSIBLE UTILITY
EM ANOMALY ATTRIBUTED TO EFFECTS OF SURFACE OBJECTS. THE PRESENCE OR ABSENCE OF BURIED METAL WITHIN THIS AREA CANNOT BE DETERMINED ON THE BASIS OF THE EM61 DATA ALONE.
CB
CATCH BASIN
SCALE (feet)
0
60
120
NOTE:
Site sketch generated from Google Earth Pro aerial photograph. Locations of buildings & roads are approximate.
Figure 4
EM Interpretation
Frank Bean Road Burn Dump
Laconia, New Hampshire
File 13SG10
September, 2013
HAGER–RICHTER GEOSCIENCE, INC.
Salem, New Hampshire

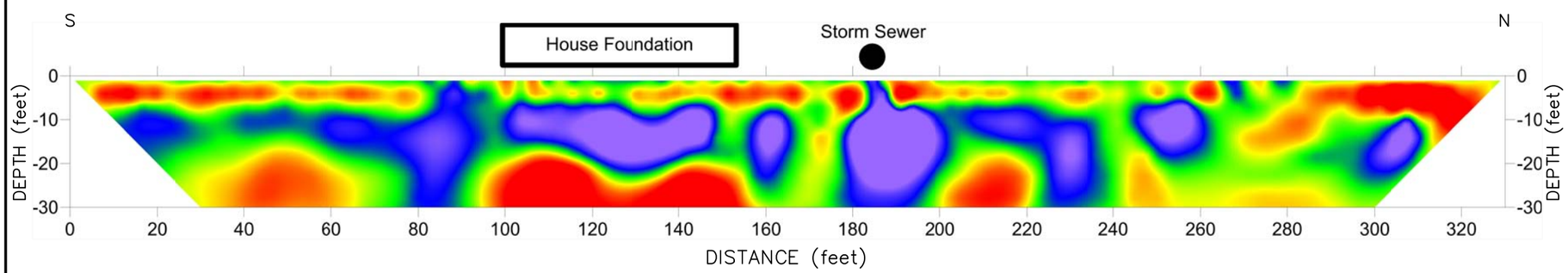


ERI LINE A

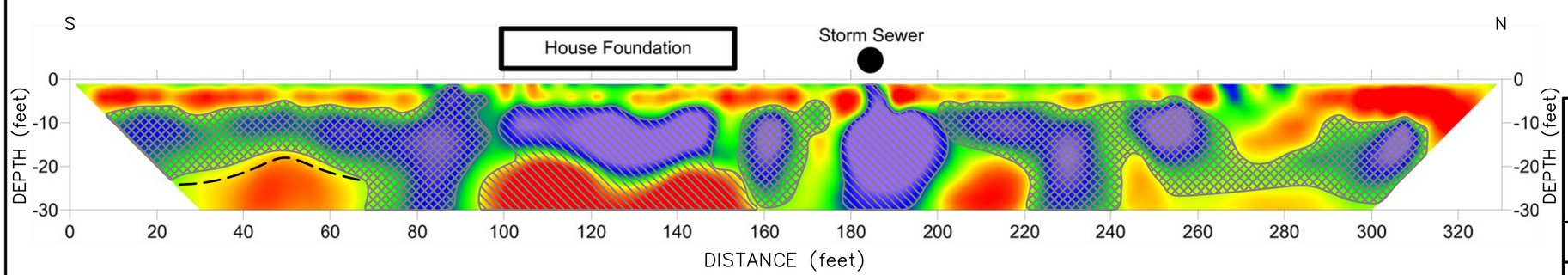


ERI LINE A – INTERPRETATION





ERI LINE B



ERI LINE B – INTERPRETATION

LEGEND

POSSIBLE LANDFILL MATERIAL

POSSIBLE BEDROCK SURFACE

ANOMALY ATTRIBUTED TO CULTURAL FEATURE

SCALE (feet)

0 30 60

Figure 5
ERI Lines A & B
Frank Bean Road Burn Dump
Laconia, New Hampshire

File 13SG10 | September, 2013

HAGER–RICHTER GEOSCIENCE, INC.
Salem, New Hampshire

ATTACHMENT E

TEST BORING/MONITORINGWELL LOG

SOVEREIGN CONSULTING INC.
ENVIRONMENTAL & GEOTECHNICAL ENGINEERING

Boring ID: **SB-101/MW**

CASING		SAMPLER	
Type:	HSA	Type:	S.B.
Diameter:	4 1/4	Diameter:	2"

HAMMER			
Type:	Safety	Size:	140 lbs
Drop Method:	Automatic	Fall:	30"

Client:	City of Laconia	Drilling Co.:	GeoSearch
Project:	Frank Bean Road	Drill Rig:	CME-55
Project No.:	NH011	Drill Method:	HSA
Location:	Frank Bean Road	Foreman:	Rodney Dean
	Laconia, NH	Sovereign Inspector:	DHB
		Start Date:	9/9/2013
		Completion Date:	9/9/2013

WATER LEVEL OBSERVATIONS

Date	Depth (ft.)	Duration
9/9/2013	36-37'	DB

Depth (ft)	Sample ID	Interval (ft.)	Blows/6"	N-value	Pen./Rec. (in.)	PID (ppmv)	Sample Description (Approx. Surface Elev.:)	Strata Change Depth (ft.)	Strata Change Graphic	Notes	Monitoring Well Construction
	S-1	0-2	4-5	10	24/	0.2	S-1: Loose, dark brown SILT and coarse to fine Sand and Gravel, trace brick				
2			5-2		10						
	S-2	2-4	1-WOH	WOH	24/	0.2	S-2: Very loose, brown SILT, trace glass				
4			18		1						
	S-3	4-6	4-3	4	24/	0.6	S-3: Loose, dark brown SILT, little fine Sand, trace ash, wood fragments				
6			1-1		6						
	S-4	6-8	1-3	7	24/	0.2	S-4: A: Similar to S-3 Burn Dump	7'			
8			4-4		16	0.2	S-4: B: Brown/tan, fine SAND - Loose				
	S-5	8-10	2-6	14	24/	0.1	S-5: Medium dense, tan SILT and medium to fine Sand and Silt				
10			8-10		16						
	S-6	10-12	5-7	15	24/	0.1	S-6: Similar to S-5				
12			8-9		18						
	S-7	12-14	6-4	8	24/	0.1	S-7: Similar to S-5, except moist				
14			4-5		16						
	S-8	14-16	2-5	10	24/	0.1	S-8: Similiar to S-5, moist				
16			5-5		14						
	S-9	16-18	8-6	12	24/	0.1	S-9: Similar to S-5, moist				
18			6-7		20						
	S-10	18-20	1-4	11	24	0.1	S-10: Similar to S-5, slightly mottled, moist				
20			7-8								
	S-11	20-22	3-7	14	24/	0.1	S-11: Medium dense, tan, coarse to fine Sand, little Silt				
22			7-8		18						
	S-12	22-24	11-10	21	24/	0.1	S-12: Similar to S-11				
24			11-12		20						
	S-13	24-26	5-7 10-11	17	24	0.1	S-13: Similar to S-11				

Notes:

Proportions Used: trace (1-10%), little (10-20%), some (20-35%), and (35-50%)

Cohesive Consistency (Blows/ft)		Cohesionless Relative Density (Blows/ft)	
very soft	0-2	very loose	0-4
soft	2-4	loose	4-10
medium stiff	4-8	medium dense	10-30
stiff	8-15	dense	30-50
very stiff	15-30	very dense	50+
hard	30+		

Remarks: 1) Stratification lines represent approximate boundaries between soil and rock types; in-situ the transition may be gradual.
2) Field testing values represent total volatile organic vapors (referenced to an isobutylene standard) measured in the headspace of a sealed soil sample with a photoionization detector (Ion Science Pho Check Tiger) equipped with a 10.6 Ev lamp.
3) Uncorrected N-values

Boring ID

SB-101/MW

TEST BORING/MONITORINGWELL LOG

SOVEREIGN CONSULTING INC.
ENVIRONMENTAL & GEOTECHNICAL ENGINEERING

Boring ID: **SB-101/MW (cont'd)**

CASING		SAMPLER	
Type:	HSA	Type:	S.B.
Diameter:	4 1/4	Diameter:	2"

HAMMER			
Type:	Safety	Size:	140 lbs
Drop Method:	Automatic	Fall:	30"

Client:	City of Laconia	Drilling Co.:	GeoSearch
Project:	Frank Bean Road	Drill Rig:	CME-55
Project No.:	NH011	Drill Method:	HSA
Location:	Frank Bean Road	Foreman:	Rodney Dean
	Laconia, NH	Sovereign Inspector:	DHB
		Start Date:	9/9/2013
		Completion Date:	9/9/2013

WATER LEVEL OBSERVATIONS

Date	Depth (ft.)	Duration
9/9/2013	36-37'	DB

Depth (ft)	Sample ID	Interval (ft.)	Blows/6"	N-value	Pen./Rec. (in.)	PID (ppmv)	Sample Description (Approx. Surface Elev.:)	Strata Change Depth (ft.)	Strata Change Graphic	Notes	Monitoring Well Construction
26											
28											
30	S-14	30-32	4-5	11	24/	0.1	S-14: Medium dense, tan, fine SAND, some medium Sand and Silt, moist				
			6-8		16						
32											
34											
36	S-15	35-37	5-7	13	24/	0.1	S-15: Medium dense, brown SILT, trace Clay		~36'-37'	▼	
			6-5		14						
38											
40											
42							[STRATIFIED DRIFT]				
							Exploration terminated at 42'				
44											
46											
48											
50											

Standpipe: Dia. N/A **in.**

Stickup: N/A **ft.**

Roadbox: Dia. 6 **in.**

PVC: Dia. 2 **in.**

Key: Cement, Grout, Bentonite, Sand

Notes:

Proportions Used: trace (1-10%), little (10-20%), some (20-35%), and (35-50%)

Cohesive Consistency (Blows/ft)		Cohesionless Relative Density (Blows/ft)	
very soft	0-2	very loose	0-4
soft	2-4	loose	4-10
medium stiff	4-8	medium dense	10-30
stiff	8-15	dense	30-50
very stiff	15-30	very dense	50+
hard	30+		

Remarks: 1) Stratification lines represent approximate boundaries between soil and rock types; in-situ the transition may be gradual.
2) Field testing values represent total volatile organic vapors (referenced to an isobutylene standard) measured in the headspace of a sealed soil sample with a photoionization detector (Ion Science Pho Check Tiger) equipped with a 10.6 Ev lamp.
3) Uncorrected N-values

Boring ID
SB-101/MW (cont'd)

TEST BORING LOG

SOVEREIGN CONSULTING INC.
ENVIRONMENTAL & GEOTECHNICAL ENGINEERING

Boring ID: **SB-102**

CASING		SAMPLER	
Type:	HSA	Type:	S.B.
Diameter:	4 1/4	Diameter:	2"

HAMMER			
Type:	Safety	Size:	140 lbs
Drop Method:	Auto	Fall:	30"

Client:	City of Laconia
Project:	Frank Bean Road
Project No.:	NH011
Location:	Frank Bean Road
	Laconia, NH

Drilling Co.:	GeoSearch
Drill Rig:	CME-55
Drill Method:	HSA
Foreman:	Rodney Dean
Sovereign Inspector:	DHB
Start Date:	9/9/2013
Completion Date:	9/9/2013

WATER LEVEL OBSERVATIONS

Date	Depth (ft.)	Duration
Not Observed		

Depth (ft)	Sample ID	Interval (ft.)	Blows/6"	N-value	Pen./Rec. (in.)	PID (ppmv)	Sample Description (Approx. Surface Elev.:)	Strata Change Depth (ft)	Strata Change Graphic	Notes
	S-1	0-2	4-6	8	24/	22	S-1: Loose, gray/brown, SILT, little fine Sand, trace ash			
2			2-3		10					
	S-2	2-4	303	7	24/	0.3	S-2: Similar to S-1, except trace brick			
4			4-1		<1"					
	S-3	4-6	5-12	14	24/	1.1	S-3: Medium dense, black ash/glass, brick fragments with tan/brown SILT and fine Sand and gravel			
6			2-1		12		Burn Dump			
	S-4	6-8	5-7	8	24/	2.3	S-4: Loose, dark brown SILT, trace coarse to fine Sand			
8			3-3		2					
	S-5	8-10	4-2	4	24/	1.4	S-5: Loose, brown, SILT			
10			2-3		9					
	S-6	10-13	3-3	6	24/	0.3	S-6: Loose, brown, fine SAND and Silt			
12			3-5		12					
	S-7	12-14	8-5	10	24/	0.3	S-7: Medium dense, tan, fine SAND and Silt, trace medium sand, moist			
14			5-6		24					
	S-8	14-16	3-4	10	24/	0.1	S-8: Medium dense, tan, fine SAND, little/trace medium Sand			
16			6-6		12		[STRATIFIED DRIFT]			
							Exploration terminated at 16'			
18										
20										
22										
24										

Notes:

Proportions Used: trace (1-10%), little (10-20%), some (20-35%), and (35-50%)

Cohesive Consistency (Blows/ft)		Cohesionless Relative Density (Blows/ft)	
very soft	0-2	very loose	0-4
soft	2-4	loose	4-10
medium stiff	4-8	medium dense	10-30
stiff	8-15	dense	30-50
very stiff	15-30	very dense	50+
hard	30+		

Remarks:
1) Stratification lines represent approximate boundaries between soil and rock types; in-situ the transition may be gradual.
2) Field testing values represent total volatile organic vapors (referenced to an isobutylene standard) measured in the headspace of a sealed soil sample with a photoionization detector (Ion Science Pho Check Tiger) equipped with a 10.6 Ev lamp.
3) Uncorrected N-values

Boring ID

SB-102

TEST BORING/MONITORINGWELL LOG

SOVEREIGN CONSULTING INC.
ENVIRONMENTAL & GEOTECHNICAL ENGINEERING

Boring ID: **SB-103/MW**

CASING		SAMPLER	
Type:	HSA	Type:	S.B.
Diameter:	4 1/4	Diameter:	2"

HAMMER			
Type:	Safety	Size:	140 lbs
Drop Method:	Automatic	Fall:	30"

Client:	City of Laconia	Drilling Co.:	GeoSearch
Project:	Frank Bean Road	Drill Rig:	CME-55
Project No.:	NH011	Drill Method:	HSA
Location:	Frank Bean Road	Foreman:	Rodney Dean
	Laconia, NH	Sovereign Inspector:	DHB
		Start Date:	9/9/2013
		Completion Date:	9/10/2013

WATER LEVEL OBSERVATIONS

Date	Depth (ft.)	Duration
9/9/2013	25-26'	DB

Depth (ft)	Sample ID	Interval (ft.)	Blows/6"	N-value	Pen./Rec. (in.)	PID (ppmv)	Sample Description (Approx. Surface Elev.:)
	S-1	0-2	3-5	9	24/	0.6	S-1: Loose, black ASH/Glass/Silt, brick fragments
2			4-3		8		
	S-2	2-4	3-4	6	24/	2.3	S-2: Similar to S-1
4			2-3		12		
	S-3	4-6	1-WOH	WOH	24/	2.2	S-3: Similar to S-1
6			12-1		2		
	S-4	6-8	1-1	1	24/		S-4: No recovery
8			1-1		0		
	S-5	8-10	1-1	3	24/	2.4	S-5: Loose, black and white/ASH, slag, glass
10			2-2		8		
	S-6	10-12	1-3	4	24/	1.9	S-6: very loose, black and white ASH
12			1-WOH		7		
	S-7	12-14	WOH	WOH	24/	0.6	S-7: very loose, gray white ASH , trace ceramic/glass fragments
14			WOH		3		
	S-8	14-16	1-1	2	24/	0.2	S-8: Very loose, gray white ASH, trace ceramic/glass fragments, glass
16			1-1		3		
	S-9	16-18	1-WOH	WOH	24/	0.4	S-9: Similar to S-8
18			WOH-1		3		
	S-10	18-20	1-1	2	24/	0.5	S-10: Similar to S-8, except ceramic fragments present - trace ~10%
20			1-2		4		
	S-11	20-22	1-1	2	24/	0.3	S-11: Similar to S-10
22			1-WOH		3		
	S-12	22-24	1-WOH	1	24/	0.4	S-12: Similar to S-10, except moist/wet
24			1-2		4		
	S-13	24-26	1-WOH 12-1	WOH	24/ 6		S-13: very loose, orangish ASH, ceramic, glass, moist/wet

Strata Change: Depth (ft.) | Graphic | Notes | Monitoring Well Construction

Notes:

Proportions Used: trace (1-10%), little (10-20%), some (20-35%), and (35-50%)

Cohesive Consistency (Blows/ft)		Cohesionless Relative Density (Blows/ft)	
very soft	0-2	very loose	0-4
soft	2-4	loose	4-10
medium stiff	4-8	medium dense	10-30
stiff	8-15	dense	30-50
very stiff	15-30	very dense	50+
hard	30+		

Remarks: 1) Stratification lines represent approximate boundaries between soil and rock types; in-situ the transition may be gradual.
2) Field testing values represent total volatile organic vapors (referenced to an isobutylene standard) measured in the headspace of a sealed soil sample with a photoionization detector (Ion Science Pho Check Tiger) equipped with a 10.6 Ev lamp.
3) Uncorrected N-values

Boring ID

SB-103/MW

TEST BORING/MONITORINGWELL LOG

SOVEREIGN CONSULTING INC.
ENVIRONMENTAL & GEOTECHNICAL ENGINEERING

Boring ID: **SB-103/MW (cont'd)**

CASING		SAMPLER	
Type:	HSA	Type:	S.B.
Diameter:	4 1/4	Diameter:	2"

HAMMER			
Type:	Safety	Size:	140 lbs
Drop Method:	Automatic	Fall:	30"

Client:	City of Laconia	Drilling Co.:	GeoSearch
Project:	Frank Bean Road	Drill Rig:	CME-55
Project No.:	NH011	Drill Method:	HSA
Location:	Frank Bean Road	Foreman:	Rodney Dean
	Laconia, NH	Sovereign Inspector:	DHB
		Start Date:	9/9/2013
		Completion Date:	9/10/2013

WATER LEVEL OBSERVATIONS

Date	Depth (ft.)	Duration
9/9/2013	~25-26'	DB

Depth (ft)	Sample ID	Interval (ft.)	Blows/6"	N-value	Pen./Rec. (in.)	PID (ppmv)	Sample Description (Approx. Surface Elev.:)	Strata Change Depth (ft.)	Strata Change Graphic	Notes
26										
	S-14	26-28	1-3	4	24/	39.5	S-14: very loose, black, SILT, moist			
28			1-WOH		20					
	S-15	28-30	10-11	26	24/	34	S-15: medium dense, dark brown, SILT, some c-Sand, glass-trace, wet			
30			15-25		14					
	S-16	30-32	14-17	28	24/	75.1	S-16: medium dense, tan/dark brown SILT and Gravel, trace glass			
32			1-14		10		Burn Dump	32'		
	S-17	32-34	14-16	41	24/	24.8	S-17: dense, tan/dark brown, coarse to fine SAND and Silt, trace gravel [glass, ash] - fall in possible			
34			25-24		20					
	S-18	34-36	10-15	32	24/	21.2	S-18: dense, brown SILT and medium to fine Sand, little gravel			
36			17-17		16					
	S-19	36-38	25-27	54	22/	0.5	S-19: dense, brown, coarse to fine SAND, some gravel,			
38			27-50/4"		18		[STRATIFIED DRIFT]			
							Exploration terminated at 38'			
40										
42										
44										
46										
48										
50										

Monitoring Well Construction

Standpipe: Dia. N/A **in.**

Stickup: N/A **ft.**

Roadbox: Dia. 6 **in.**

PVC: Dia. 2 **in.**

Key: Cement, Grout, Bentonite, Sand

Notes:

Well: set at 30' - 10' screeen 20-30'
sand: 30-18
bentonite: 18-17
cuttings: 17' grade

Proportions Used: trace (1-10%), little (10-20%), some (20-35%), and (35-50%)

Cohesive Consistency (Blows/ft)		Cohesionless Relative Density (Blows/ft)	
very soft	0-2	very loose	0-4
soft	2-4	loose	4-10
medium stiff	4-8	medium dense	10-30
stiff	8-15	dense	30-50
very stiff	15-30	very dense	50+
hard	30+		

Remarks: 1) Stratification lines represent approximate boundaries between soil and rock types; in-situ the transition may be gradual.
2) Field testing values represent total volatile organic vapors (referenced to an isobutylene standard) measured in the headspace of a sealed soil sample with a photoionization detector (Ion Science Pho Check Tiger) equipped with a 10.6 Ev lamp.
3) Uncorrected N-values

Boring ID
SB-103/MW (cont'd)

TEST BORING/MONITORINGWELL LOG

SOVEREIGN CONSULTING INC.
ENVIRONMENTAL & GEOTECHNICAL ENGINEERING

Boring ID: **SB-104/MW**

CASING		SAMPLER	
Type:	HSA	Type:	S.B.
Diameter:	4 1/4	Diameter:	2"

HAMMER			
Type:	Safety	Size:	140 lbs
Drop Method:	Automatic	Fall:	30"

WATER LEVEL OBSERVATIONS		
Date	**Depth (ft.)**	**Duration**
9/10/2013	~20'	DB

Client:	City of Laconia	Drilling Co.:	GeoSearch
Project:	Frank Bean Road	Drill Rig:	CME-55
Project No.:	NH011	Drill Method:	HSA
Location:	Frank Bean Road	Foreman:	Rodney Dean
	Laconia, NH	Sovereign Inspector:	DHB
		Start Date:	9/10/2013
		Completion Date:	9/10/2013

Depth (ft)	Sample ID	Interval (ft.)	Blows/6"	N-value	Pen./Rec. (in.)	PID (ppmv)	Sample Description (Approx. Surface Elev.:)	Strata Change Depth (ft.)	Strata Change Graphic	Notes	Monitoring Well Construction
	S-1	0-2	5-6	10	24/	0.1	S-1: Loose, dark brown, SILT and ash, brick fragments				
2			4-4		12						
	S-2	2-4	2-3	6	24/	0.1	S-2: Similar to S-1				
4			3-7		10						
	S-3	4-6	12-16	29	24/	3.2	S-3: Medium dense, dark brown, SILT and ash, little fine Sand, trace gravel				
6			13-15		16		Burn Dump	6'			
	S-4	6-8	8-6	14	24/	0.1	S-4: Medium dense, tan, fine SAND				
8			8-10		20						
	S-5	8-10	3-3	7	24/	0.1	S-5: Loose, tan, fine SAND				
10			4-5		16						
	S-6	10-12	3-4	9	24/	0.1	S-6: Similar to S-5				
12			5-6		18						
	S-7	12-14	5-7	13	24/	0.1	S-7: Similar to S-5, except medium dense				
14			6-7		18						
	S-8	14-16	2-3	7	24/	0.1	S-8: Similar to S-5				
16			4-4		14						
	S-9	16-18	4-6	12	24/	0.1	S-9: Similar to S-7				
18			6-6		16						
	S-10	18-20	2-3	7	24/	0.2	S-10: Similar to S-5, moist				
20			4-5		16			~20'	▼		
	S-11	20-22	1-3	8	24/	0.1	S-11: Similar to S-5, wet				
22			5-7		14						
	S-12	22-24	2-7	14	24/	0.1	S-12: Similar to S-7, wet, bottom 5" SILT				
24			7-15		18		[STRATIFIED DRIFT]				
							Exploration terminated at 24'	24'			

Notes:

Roadbox Dia. 6 inches
PVC Dia. 2 inches

Proportions Used: trace (1-10%), little (10-20%), some (20-35%), and (35-50%)

Cohesive Consistency (Blows/ft)		Cohesionless Relative Density (Blows/ft)	
very soft	0-2	very loose	0-4
soft	2-4	loose	4-10
medium stiff	4-8	medium dense	10-30
stiff	8-15	dense	30-50
very stiff	15-30	very dense	50+
hard	30+		

Remarks:
1) Stratification lines represent approximate boundaries between soil and rock types; in-situ the transition may be gradual.
2) Field testing values represent total volatile organic vapors (referenced to an isobutylene standard) measured in the headspace of a sealed soil sample with a photoionization detector (Ion Science Pho Check Tiger) equipped with a 10.6 Ev lamp.
3) Uncorrected N-values

Boring ID

SB-104/MW

TEST BORING/MONITORINGWELL LOG

SOVEREIGN CONSULTING INC.
ENVIRONMENTAL & GEOTECHNICAL ENGINEERING

Boring ID: **SB-105/MW**

CASING		SAMPLER	
Type:	HSA	Type:	S.B.
Diameter:	4 1/4	Diameter:	2"

HAMMER			
Type:	Safety	Size:	140 lbs
Drop Method:	Automatic	Fall:	30"

WATER LEVEL OBSERVATIONS		
Date	**Depth (ft.)**	**Duration**
9/10/2013	~22'	DB

Client:	City of Laconia	Drilling Co.:	GeoSearch
Project:	Frank Bean Road	Drill Rig:	CME-55
Project No.:	NH011	Drill Method:	HSA
Location:	Frank Bean Road	Foreman:	Rodney Dean
	Laconia, NH	Sovereign Inspector:	DHB
		Start Date:	9/10/2013
		Completion Date:	9/10/2013

Approx. Surface Elev.:

Depth (ft)	Sample ID	Interval (ft.)	Blows/6"	N-value	Pen./Rec. (in.)	PID (ppmv)	Sample Description
	S-1	0-2	6-24	29	24/	0.6	S-1: Medium dense, orange/brown SILT, some coarse to fine Sand and rock fragments
2			5-7		8		
	S-2	2-4	5-6	10	24/	0.5	S-2: Loose, black ASH and brown Silt, trace glass
4			4-4		12		
	S-3	4-6	1-1	8	24/	1.0	S-3: Loose, brown SILT and black Ash, some medium to fine Sand trace coarse sand
6			7-20		14		
	S-4	6-8	2-4	8	24/	0.5	S-4: Similar to S-3
8			2-6		6		
	S-5	8-10	1-1	1	24/	0.2	S-5: Very loose, black ASH and brown Silt, some gravel, trace glass
10			WOH		2		
	S-6	10-12	WOH-1	1	24/	0.3	S-6: Very loose, black/orange ASH and Silt
12			WOH-1		7		
	S-7	12-14	4-3	7	24/	0.3	S-7: Loose, black ASH and Silt, some concrete and glass fragments
14			4-5		5		
	S-8	14-16	WOH-1	4	24/	0.1	S-8: Very loose, brick and black ASH
16			3-3		6		
	S-9	16-18	1-1	1	24/	0.2	S-9: Very loose, orange/black brick, ceramic ASH material
18			WOH		4		
	S-10	18-20	WOH-1	3	24/	21.5	S-10: Very loose, black/brown ASH and Silt, trace metal, ceramic, brick fragments
20			2-2		4		Burn Dump
	S-11	20-22	WOH-3	7	24/	160	S-11: Loose, gray, fine to medium SAND and Silt, moist
22			4-6		12		
	S-12	22-24	5-6	17	24/	95.7	S-12: Similar to S-11, except m. dense, wet
24			11-16		12		

Strata Change

Depth (ft.)	Graphic
20'	
~22'	

Notes

Monitoring Well Construction

Notes:

Proportions Used: trace (1-10%), little (10-20%), some (20-35%), and (35-50%)

Cohesive Consistency (Blows/ft)		Cohesionless Relative Density (Blows/ft)	
very soft	0-2	very loose	0-4
soft	2-4	loose	4-10
medium stiff	4-8	medium dense	10-30
stiff	8-15	dense	30-50
very stiff	15-30	very dense	50+
hard	30+		

Remarks: 1) Stratification lines represent approximate boundaries between soil and rock types; in-situ the transition may be gradual.
2) Field testing values represent total volatile organic vapors (referenced to an isobutylene standard) measured in the headspace of a sealed soil sample with a photoionization detector (Ion Science Pho Check Tiger) equipped with a 10.6 Ev lamp.
3) Uncorrected N-values

Boring ID

SB-105/MW

TEST BORING/MONITORINGWELL LOG

SOVEREIGN CONSULTING INC.
ENVIRONMENTAL & GEOTECHNICAL ENGINEERING

Boring ID: **SB-105/MW (cont'd)**

CASING		SAMPLER	
Type:	HSA	Type:	S.B.
Diameter:	4 1/4	Diameter:	2"

HAMMER			
Type:	Safety	Size:	140 lbs
Drop Method:	Automatic	Fall:	30"

Client:	City of Laconia	Drilling Co.:	GeoSearch
Project:	Frank Bean Road	Drill Rig:	CME-55
Project No.:	NH011	Drill Method:	HSA
Location:	Frank Bean Road	Foreman:	Rodney Dean
	Laconia, NH	Sovereign Inspector:	DHB
		Start Date:	9/10/2013
		Completion Date:	9/10/2013

WATER LEVEL OBSERVATIONS

Date	Depth (ft.)	Duration
9/10/2013	~22'	DB

Depth (ft)	Sample ID	Interval (ft.)	Blows/6"	N-value	Pen./Rec. (in.)	PID (ppmv)	Sample Description (Approx. Surface Elev.:)	Strata Change Depth (ft.)	Strata Change Graphic	Notes	Monitoring Well Construction
	S-13	24-26	5-5	10	24/	17.5	S-13: Medium dense, tan, SILT and medium to fine Sand				
26			5-7		8						
	S-14	26-28					[STRATIFIED DRIFT]				
28							Exploration terminated at 27'				
30											
32											
34											
36											
38											
40											
42											
44											
46											
48											

Standpipe: Dia. N/A **in.**

Stickup: N/A **ft.**

Roadbox: Dia. 6 **in.**

PVC: Dia. 2 **in.**

Key: Cement, Grout, Bentonite, Sand

Notes:

Proportions Used: trace (1-10%), little (10-20%), some (20-35%), and (35-50%)

Cohesive Consistency (Blows/ft)		Cohesionless Relative Density (Blows/ft)	
very soft	0-2	very loose	0-4
soft	2-4	loose	4-10
medium stiff	4-8	medium dense	10-30
stiff	8-15	dense	30-50
very stiff	15-30	very dense	50+
hard	30+		

Remarks: 1) Stratification lines represent approximate boundaries between soil and rock types; in-situ the transition may be gradual.
2) Field testing values represent total volatile organic vapors (referenced to an isobutylene standard) measured in the headspace of a sealed soil sample with a photoionization detector (Ion Science Pho Check Tiger) equipped with a 10.6 Ev lamp.
3) Uncorrected N-values

Boring ID
SB-105/MW (cont'd)

TEST BORING LOG

SOVEREIGN CONSULTING INC.
ENVIRONMENTAL & GEOTECHNICAL ENGINEERING

Boring ID: **SB-106**

CASING		SAMPLER	
Type:	HSA	Type:	S.B.
Diameter:	4 1/4	Diameter:	2"

HAMMER			
Type:	Safety	Size:	140 lbs
Drop Method:	Auto	Fall:	30"

Client:	City of Laconia
Project:	Frank Bean Road
Project No.:	NH011
Location:	Frank Bean Road
	Laconia, NH

Drilling Co.:	GeoSearch
Drill Rig:	CME-55
Drill Method:	HSA
Foreman:	Rodney Dean
Sovereign Inspector:	DHB
Start Date:	9/11/2013
Completion Date:	9/11/2013

WATER LEVEL OBSERVATIONS

Date	Depth (ft.)	Duration
9/11/2013	~12'	DB

Approx. Surface Elev.:

Depth (ft)	Sample ID	Interval (ft.)	Blows/6"	N-value	Pen./Rec. (in.)	PID (ppmv)	Sample Description	Strata Change Depth (ft)	Strata Change Graphic	Notes
							~6" TOPSOIL			
	S-1	0-2	WOH-2	4	24/	0.3	S-1: Very loose, tan, f-SAND with black Ash, glass, brick fragments			
2			2-3		5					
	S-2	2-4	1-WOH	WOH	24/	0.4	S-2: Very loose, black/brown ASH and Silt, glass fragments			
4			WOH-1		5					
	S-3	4-6	2-1	4	24/	0.4	S-3: Very loose, orange/brown/white ASH with brown Silt			
6			3-4		10					
	S-4	6-8	7-4	7	24/	0.3	S-4: Loose, tan/brown SILT and fine Sand, trace ash			
8			3-3		12		Burn Dump	8'		
	S-5	8-10	2-3	7	24/	0.1	S-5: Loose, tan, fine SAND, trace Silt			
10			4-3		16					
	S-6	10-12	2-2	6	24/	0.1	S-6: Similar to S-5, some mottling, moist			
12			4-7		15			~12'	▼	
	S-7	12-14	6-5	8	24/	154	S-7: 12-13' Similar to S-5			
14			3-5		20		13-14' black, fine SAND, petroleum impact, wet			
	S-8	14-16	6-6	21	24/	18.8	S-8: Medium dense, tan/brown, SILT, little coarse to fine Sand			
16			15-23		20					
	S-9	16-18	21-22	40	24/	0.7	S-9: Dense, tan/brown, SILT, some medium to fine Sand			
18			18-22				[STRATIFIED DRIFT]			
							Exploration terminated at 18'			
20										
22										
24										

Notes:

Proportions Used: trace (1-10%), little (10-20%), some (20-35%), and (35-50%)

Cohesive Consistency (Blows/ft)		Cohesionless Relative Density (Blows/ft)	
very soft	0-2	very loose	0-4
soft	2-4	loose	4-10
medium stiff	4-8	medium dense	10-30
stiff	8-15	dense	30-50
very stiff	15-30	very dense	50+
hard	30+		

Remarks:
1) Stratification lines represent approximate boundaries between soil and rock types; in-situ the transition may be gradual.
2) Field testing values represent total volatile organic vapors (referenced to an isobutylene standard) measured in the headspace of a sealed soil sample with a photoionization detector (Ion Science Pho Check Tiger) equipped with a 10.6 Ev lamp.
3) Uncorrected N-values

Boring ID

SB-106

Sheet ____ of ____

TEST BORING/MONITORINGWELL LOG

SOVEREIGN CONSULTING INC.
ENVIRONMENTAL & GEOTECHNICAL ENGINEERING

Boring ID: **SB-107/MW**

CASING		SAMPLER	
Type:	HSA	Type:	S.B.
Diameter:	4 1/4	Diameter:	2"

HAMMER			
Type:	Safety	Size:	140 lbs
Drop Method:	Automatic	Fall:	30"

Client:	City of Laconia
Project:	Frank Bean Road
Project No.:	NH011
Location:	Frank Bean Road Laconia, NH

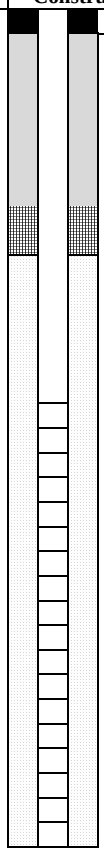
Drilling Co.:	GeoSearch
Drill Rig:	CME-55
Drill Method:	HSA
Foreman:	Rodney Dean
Sovereign Inspector:	DHB
Start Date:	9/11/2013
Completion Date:	9/11/2013

WATER LEVEL OBSERVATIONS

Date	Depth (ft.)	Duration
9/9/2013	~12'	DB

Depth (ft)	Sample ID	Interval (ft.)	Blows/6"	N-value	Pen./Rec. (in.)	PID (ppmv)	Sample Description (Approx. Surface Elev.:)	Strata Change Depth (ft.)	Strata Change Graphic	Notes
							~6" TOPSOIL			
	S-1	0-2	1-3	7	24/	0.2	S-1: Loose, brown SILT, Ash, glass fragments			
2			4-3							
	S-2	2-4	1-2	4	24/	0.5	S-2: Similar to S-1 except very loose			
4			2-2		6					
	S-3	4-6	3-2	3	24/	0.6	S-3: Very loose, black SILT and Ash, trace glass, ceramic fragments			
6			1-2		6					
	S-4	6-8	3-2	4	24/	4.6	S-4: Very loose, dark brown, SILT, some Ash and brick fragments, trace glass			
8			2-1		8		Burn Dump	8'		
	S-5	8-10	2-2	6	24/	0.6	S-5: Loose, brown, SILT, some fine Sand			
10			4-3		1					
	S-6	10-12	2-3	6	24/	156.5	S-6: Loose, brown/gray, SILT, some fine Sand,			
12			3-6		18			~12'	▼	
	S-7	12-14	5-7	14	24/	35.8	S-7: Medium dense, gray, SILT			
14			7-11		20					
	S-8	14-16	7-13	29	24/	141.6	S-8: Medium dense, gray SILT, little coarse to fine Sand			
16			16-15		18					
18	S-9	17-19	9-14		24/	0.8	S-9: Dense, brown, SILT, little medium to fine Sand and			
			16-21		14		[STRATIFIED DRIFT]			
20							Exploration terminated at 19'			
22										
24										

Monitoring Well Construction



Standpipe: Dia. N/A **in.**

Stickup: N/A **ft.**

Roadbox: Dia. 6 **in.**

PVC: Dia. 2 **in.**

Key: Cement, Grout, Bentonite, Sand

Notes:

Proportions Used: trace (1-10%), little (10-20%), some (20-35%), and (35-50%)

Cohesive Consistency (Blows/ft)		Cohesionless Relative Density (Blows/ft)	
very soft	0-2	very loose	0-4
soft	2-4	loose	4-10
medium stiff	4-8	medium dense	10-30
stiff	8-15	dense	30-50
very stiff	15-30	very dense	50+
hard	30+		

Remarks: 1) Stratification lines represent approximate boundaries between soil and rock types; in-situ the transition may be gradual.
2) Field testing values represent total volatile organic vapors (referenced to an isobutylene standard) measured in the headspace of a sealed soil sample with a photoionization detector (Ion Science Pho Check Tiger) equipped with a 10.6 Ev lamp.
3) Uncorrected N-values

Boring ID

SB-107/MW

TEST BORING/MONITORINGWELL LOG

SOVEREIGN CONSULTING INC.
ENVIRONMENTAL & GEOTECHNICAL ENGINEERING

Boring ID: **SB-108/MW**

CASING		SAMPLER	
Type:	HSA	Type:	S.B.
Diameter:	4 1/4	Diameter:	2"

HAMMER			
Type:	Safety	Size:	140 lbs
Drop Method:	Automatic	Fall:	30"

Client:	City of Laconia
Project:	Frank Bean Road
Project No.:	NH011
Location:	Frank Bean Road Laconia, NH

Drilling Co.:	GeoSearch
Drill Rig:	CME-55
Drill Method:	HSA
Foreman:	Rodney Dean
Sovereign Inspector:	DHB
Start Date:	9/11/2013
Completion Date:	9/12/2013

WATER LEVEL OBSERVATIONS

Date	Depth (ft.)	Duration
9/12/2013	~18'	DB

Approx. Surface Elev.:

Depth (ft)	Sample ID	Interval (ft.)	Blows/6"	N-value	Pen./Rec. (in.)	PID (ppmv)	Sample Description	Strata Change Depth (ft.)	Strata Change Graphic	Notes	Monitoring Well Construction
							~3" TOPSOIL	3"			
	S-1	0-2	2-4	8	24/	0.2	S-1: Loose, brown, SILT, some medium to fine Sand				
2			4-5		18						
	S-2	2-4	4-5	14	24/	0.2	S-2: Medium dense, tan, SILT, some fine Sand				
4			9-10		16						
	S-3	4-6	8-17	31	24	0.2	S-3: Dense, brown, SILT, some coarse to fine Sand, trace Slag and Gravel				
6			14-36				Burn Dump	6'			
	S-4	6-8	3-7	14	24/	0.3	S-4: Medium dense, tank, fine SAND and Silt				
8			7-7		12						
	S-5	8-10	2-2	6	24/	0.1	S-5: Loose, tank, fine SAND and Silt				
10			4-6		16						
	S-6	10-12	2-4	10	24/	0.1	S-6: Similar to S-5				
12			6-7		18						
	S-7	12-14	8-8	16	24/	0.2	S-7: Similar to S-5, except medium dense				
14			8-10		20						
	S-8	14-16	4-6	14	24/	0.1	S-8: Similar to S-5, except medium dense				
16			8-8		14						
	S-9	16-18	6-6	11	24/	0.1	S-9: Similar to S-5, except medium dense				
18			5-7		20			~18'			
	S-10	18-20	3-4	8	24/	0.2	S-10: Loose, brown/tan, fine SAND and Silt, wet				
20			4-6		16						
	S-11	20-22	3-6	12	24/	0.2	S-11: Medium dense, brown/tan, SILT and fine Sand				
22			6-7		16						
	S-12	22-24	3-5	11	24/	0.2	S-12: Medium dense, brown, SILT, little fine Sand				
24			6-20		24		[STRATIFIED DRIFT]				
							Exploration terminated at 24'				

Notes:

Roadbox Dia.: 6 inches
PVC Dia.: 2 inches

Proportions Used: trace (1-10%), little (10-20%), some (20-35%), and (35-50%)

Cohesive Consistency (Blows/ft)		Cohesionless Relative Density (Blows/ft)	
very soft	0-2	very loose	0-4
soft	2-4	loose	4-10
medium stiff	4-8	medium dense	10-30
stiff	8-15	dense	30-50
very stiff	15-30	very dense	50+
hard	30+		

Remarks:
1) Stratification lines represent approximate boundaries between soil and rock types; in-situ the transition may be gradual.
2) Field testing values represent total volatile organic vapors (referenced to an isobutylene standard) measured in the headspace of a sealed soil sample with a photoionization detector (Ion Science Pho Check Tiger) equipped with a 10.6 Ev lamp.
3) Uncorrected N-values

Boring ID

SB-108/MW

TEST BORING/MONITORINGWELL LOG

SOVEREIGN CONSULTING INC.
ENVIRONMENTAL & GEOTECHNICAL ENGINEERING

Boring ID: **SB-109/MW**

CASING		SAMPLER	
Type:	HSA	Type:	S.B.
Diameter:	4 1/4	Diameter:	2"

HAMMER			
Type:	Safety	Size:	140 lbs
Drop Method:	Automatic	Fall:	30"

Client:	City of Laconia
Project:	Frank Bean Road
Project No.:	NH011
Location:	Frank Bean Road Laconia, NH

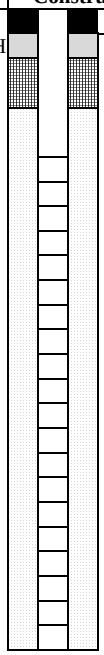
Drilling Co.:	GeoSearch
Drill Rig:	CME-55
Drill Method:	HSA
Foreman:	Rodney Dean
Sovereign Inspector:	DHB
Start Date:	9/12/2013
Completion Date:	

WATER LEVEL OBSERVATIONS

Date	Depth (ft.)	Duration
9/12/2013	~8'	DB

Depth (ft)	Sample ID	Interval (ft.)	Blows/6"	N-value	Pen./Rec. (in.)	PID (ppmv)	Sample Description (Approx. Surface Elev.:)	Strata Change Depth (ft.)	Strata Change Graphic	Notes
	S-1	0-2	4-8	14	24/	0.2	S-1: Medium dense, brown SILT, trace coarse to fine Sand and Ash, ash layer ~2"			ASH
2			6-5		18		Burn Dump	2'		
	S-2	2-4	4-4	10	24/	0.3	S-2: Loose, tan, SILT, trace fine Sand, coarse to fine sand seams			
4			6-8		24					
	S-3	4-6	7-9	19	24/	0.2	S-3: Medium dense, brown, coarse to fine SAND, trace			
6			10-9		8					
	S-4	6-8	8-18	32	24/	0.1	S-4: Dense, brown, SILT, some coarse to fine Sand, moist/wet			
8			14-18		16				~8'	▼
	S-5	8-10	8-9	24	24/	0.2	S-5: Medium dense, brown, SILT, some coarse to fine Sand			
10			15-24		18					
	S-6	10-12	11-15	30	24/	0.2	S-6: Dense, brown, SILT, little, little Gravel, trace coarse to fine sand			
12			15-25		14					
							[STRATIFIED DRIFT]			
14							Exploration terminated at 13'			
16										
18										
20										
22										
24										

Monitoring Well Construction



Standpipe: Dia. N/A **in.**

Stickup: N/A **ft.**

Roadbox: Dia. 6 **in.**

PVC: Dia. 2 **in.**

Key: Cement, Grout, Bentonite, Sand

Notes:

Proportions Used: trace (1-10%), little (10-20%), some (20-35%), and (35-50%)

Cohesive Consistency (Blows/ft)		Cohesionless Relative Density (Blows/ft)	
very soft	0-2	very loose	0-4
soft	2-4	loose	4-10
medium stiff	4-8	medium dense	10-30
stiff	8-15	dense	30-50
very stiff	15-30	very dense	50+
hard	30+		

Remarks:
1) Stratification lines represent approximate boundaries between soil and rock types; in-situ the transition may be gradual.
2) Field testing values represent total volatile organic vapors (referenced to an isobutylene standard) measured in the headspace of a sealed soil sample with a photoionization detector (Ion Science Pho Check Tiger) equipped with a 10.6 Ev lamp.
3) Uncorrected N-values

Boring ID

SB-109/MW

TEST BORING/MONITORINGWELL LOG

SOVEREIGN CONSULTING INC.
ENVIRONMENTAL & GEOTECHNICAL ENGINEERING

Boring ID: **SB-110/MW**

CASING		SAMPLER	
Type:	HSA	Type:	S.B.
Diameter:	4 1/4	Diameter:	2"

HAMMER			
Type:	Safety	Size:	140 lbs
Drop Method:	Automatic	Fall:	30"

Client:	City of Laconia	Drilling Co.:	GeoSearch
Project:	Frank Bean Road	Drill Rig:	CME-55
Project No.:	NH011	Drill Method:	HSA
Location:	Frank Bean Road	Foreman:	Rodney Dean
	Laconia, NH	Sovereign Inspector:	DHB
		Start Date:	9/12/2013
		Completion Date:	9/13/2013

WATER LEVEL OBSERVATIONS

Date	Depth (ft.)	Duration
9/12/2013	~23-24'	DB

Approx. Surface Elev.:

Depth (ft)	Sample ID	Interval (ft.)	Blows/6"	N-value	Pen./Rec. (in.)	PID (ppmv)	Sample Description	Strata Change Depth (ft.)	Strata Change Graphic	Notes	Monitoring Well Construction
							~3" TOPSOIL	3"			
	S-1	0-2	2-3	6	24/	0.2	S-1: Loose, brown, SILT and Ash, trace medium to fine Sand				
2			3-3		8						
	S-2	2-4	6-5	8	24/	0.3	S-2: Loose, dark brown, ASH and Silt				
4			3-2		4						
	S-3	4-6	1-1	1	24/	0.3	S-3: Very loose, black/white/orange ASH				
6			WOH		4						
	S-4	6-8	1-12"	WOH	24/	0.4					
8			1-12"		<1"		S-4: Similar to S-3				
	S-5	8-10	WOH-1	1	24/	0.2	S-5: Similar to S-3				
10			1-1		2"						
	S-6	10-12	2-1	1	24/	0.3	S-6: Similar to S-3, except trace glass				
12			1-1		5"						
	S-7	12-14	1-2	3	24/	0.6	S-7: Similar to S-3, except moist				
14			1-1		6						
	S-8	14-16	1-1	3	24/	0.3	S-8: Similar to S-3, except moist				
16			2-2		7						
	S-9	16-18	1-3	5	24/	0.3	S-9: Loose, top 4" similar to S-3 Burn Dump	17'			
18			2-3		12	0.3	Bottom 8" brown fine SAND and Silt				
	S-10	18-20	1-1	3	24/	0.2	S-10: Loose, brown, fine SAND and Silt, moist				
20			2-2		9						
	S-11	20-22	2-3	6	24/	0.1	S-11 Loose, brown, SILT and fine Sand, trace coarse sand, gravel				
22			3-4		16						
	S-12	22-24	4-3	6	24/	0.1	S-12: Similar to S-11, very moist/wet	~23-24'			
24			3-4		20						
	S-13	24-26	4-6 7-8	13	24/ 18	0.2	S-13: Medium dense, brown, SILT and fine Sand, wet				

Notes:

Proportions Used: trace (1-10%), little (10-20%), some (20-35%), and (35-50%)

Cohesive Consistency (Blows/ft)		Cohesionless Relative Density (Blows/ft)	
very soft	0-2	very loose	0-4
soft	2-4	loose	4-10
medium stiff	4-8	medium dense	10-30
stiff	8-15	dense	30-50
very stiff	15-30	very dense	50+
hard	30+		

Remarks: 1) Stratification lines represent approximate boundaries between soil and rock types; in-situ the transition may be gradual.
2) Field testing values represent total volatile organic vapors (referenced to an isobutylene standard) measured in the headspace of a sealed soil sample with a photoionization detector (Ion Science Pho Check Tiger) equipped with a 10.6 Ev lamp.
3) Uncorrected N-values

Boring ID

SB-110/MW

TEST BORING/MONITORINGWELL LOG

SOVEREIGN CONSULTING INC.
ENVIRONMENTAL & GEOTECHNICAL ENGINEERING

Boring ID: **SB-110/MW (cont'd)**

CASING		SAMPLER	
Type:	HSA	Type:	S.B.
Diameter:	4 1/4	Diameter:	2"

HAMMER			
Type:	Safety	Size:	140 lbs
Drop Method:	Automatic	Fall:	30"

Client:	City of Laconia	Drilling Co.:	GeoSearch
Project:	Frank Bean Road	Drill Rig:	CME-55
Project No.:	NH011	Drill Method:	HSA
Location:	Frank Bean Road	Foreman:	Rodney Dean
	Laconia, NH	Sovereign Inspector:	DHB
		Start Date:	9/12/2013
		Completion Date:	9/13/2013

WATER LEVEL OBSERVATIONS

Date	Depth (ft.)	Duration
9/12/2013	~23-24'	DB

Approx. Surface Elev.:

Depth (ft)	Sample ID	Interval (ft.)	Blows/6"	N-value	Pen./Rec. (in.)	PID (ppmv)	Sample Description	Strata Change Depth (ft.)	Strata Change Graphic	Notes	Monitoring Well Construction
	S-14	26-28	9-9	19	24/	0.2	S-14: Medium dense, brown SILT and fine Sand				
28			10-12		24		[STRATIFIED DRIFT]				
							Exploration terminated at 28'				
30											
32											
34											

Standpipe: Dia. N/A **in.**

Stickup: N/A **ft.**

Roadbox: Dia. 6 **in.**

PVC: Dia. 2 **in.**

Key: Cement, Grout, Bentonite, Sand

Notes:

Proportions Used: trace (1-10%), little (10-20%), some (20-35%), and (35-50%)

Cohesive Consistency (Blows/ft)		Cohesionless Relative Density (Blows/ft)	
very soft	0-2	very loose	0-4
soft	2-4	loose	4-10
medium stiff	4-8	medium dense	10-30
stiff	8-15	dense	30-50
very stiff	15-30	very dense	50+
hard	30+		

Remarks: 1) Stratification lines represent approximate boundaries between soil and rock types; in-situ the transition may be gradual.
2) Field testing values represent total volatile organic vapors (referenced to an isobutylene standard) measured in the headspace of a sealed soil sample with a photoionization detector (Ion Science Pho Check Tiger) equipped with a 10.6 Ev lamp.
3) Uncorrected N-values

Boring ID
SB-110/MW (cont'd)

TEST BORING LOG

SOVEREIGN CONSULTING INC.
ENVIRONMENTAL & GEOTECHNICAL ENGINEERING

Boring ID: **SB-111**

CASING		SAMPLER	
Type:	HSA	Type:	S.B.
Diameter:	4 1/4	Diameter:	2"

HAMMER			
Type:	Safety	Size:	140 lbs
Drop Method:	Auto	Fall:	30"

Client:	City of Laconia
Project:	Frank Bean Road
Project No.:	NH011
Location:	Frank Bean Road
	Laconia, NH

Drilling Co.:	GeoSearch
Drill Rig:	CME-55
Drill Method:	HSA
Foreman:	Rodney Dean
Sovereign Inspector:	DHB
Start Date:	9/13/2013
Completion Date:	9/13/2013

WATER LEVEL OBSERVATIONS

Date	Depth (ft.)	Duration
Not Observed		

Depth (ft)	Sample ID	Interval (ft.)	Blows/6"	N-value	Pen./Rec. (in.)	PID (ppmv)	Sample Description (Approx. Surface Elev.:)	Strata Change Depth (ft)	Strata Change Graphic	Notes
	S-1	0-2	7-5	11	24/	0.3	~4" TOPSOIL S-1: Medium dense, tan, medium to fine SAND, little/trace Silt			
2			6-5		18					
	S-2	2-4	6-6	13	24/	0.4	S-2: Medium dense, tan, coarse to fine SAND, trace Gravel, moist			
4			7-6		14					
	S-3	4-6	2-4	8	24/	0.4	S-3: Loose, tan, medium to fine SAND, trace coarse Sand			
6			4-5		16					
	S-4	6-8	6-4	8	24/	0.4	S-4: Similar to S-3			
8			4-5		14					
	S-5	8-10	8-7	15	24/	0.3	S-5: Similar to S-3, except medium dense, trace Gravel, moist			
10			8-9		16		[STRATIFIED DRIFT]			
							Exploration terminated at 10'			
12										
14										
16										
18										
20										
22										
24										

Notes:

Proportions Used: trace (1-10%), little (10-20%), some (20-35%), and (35-50%)

Cohesive Consistency (Blows/ft)		Cohesionless Relative Density (Blows/ft)	
very soft	0-2	very loose	0-4
soft	2-4	loose	4-10
medium stiff	4-8	medium dense	10-30
stiff	8-15	dense	30-50
very stiff	15-30	very dense	50+
hard	30+		

Remarks:
1) Stratification lines represent approximate boundaries between soil and rock types; in-situ the transition may be gradual.
2) Field testing values represent total volatile organic vapors (referenced to an isobutylene standard) measured in the headspace of a sealed soil sample with a photoionization detector (Ion Science Pho Check Tiger) equipped with a 10.6 Ev lamp.
3) Uncorrected N-values

Boring ID

SB-111

TEST BORING LOG

SOVEREIGN CONSULTING INC.
ENVIRONMENTAL & GEOTECHNICAL ENGINEERING

Boring ID: **SB-112**

CASING		SAMPLER	
Type:	HSA	Type:	S.B.
Diameter:	4 1/4	Diameter:	2"

HAMMER			
Type:	Safety	Size:	140 lbs
Drop Method:	Auto	Fall:	30"

WATER LEVEL OBSERVATIONS		
Date	**Depth (ft.)**	**Duration**
Not observed		

Client:	City of Laconia	Drilling Co.:	GeoSearch
Project:	Frank Bean Road	Drill Rig:	CME-55
Project No.:	NH011	Drill Method:	HSA
Location:	Frank Bean Road	Foreman:	Rodney Dean
	Laconia, NH	Sovereign Inspector:	DHB
		Start Date:	9/13/2013
		Completion Date:	9/13/2013

Depth (ft)	Sample Information: Sample ID	Interval (ft.)	Blows/6"	N-value	Pen./Rec. (in.)	PID (ppmv)	Sample Description (Approx. Surface Elev.:)	Strata Change: Depth (ft)	Strata Change: Graphic	Notes
							~5" TOPSOIL			
	S-1	0-2	2-5	20	24/	0.2	S-1: Medium dense, brown, Gravel, some coarse to fine SAND, little Silt			
2			15-9		6					
	S-2	2-4	6-8	18	24/	0.1	S-2: Medium dense, tan, coarse to fine SAND, some Silt			
4			10-8		10					
	S-3	4-6	6-6	12	24/	0.2	S-3: Medium dense, tan, medium to fine SAND, trace coarse Sand and Gravel, moist			
6			6-17		12					
	S-4	6-8	4-7	17	24/	0.2	S-4: Similiar to S-3			
8			10-12		3					
	S-5	8-10	9-19	33	24/	0.2	S-5: Dense, brown, medium to fine SAND, trace, some Silt, trace coarse Sand			
10			14-16				[STRATIFIED DRIFT]			
							Exploration terminated at 10'			
12										
14										
16										
18										
20										
22										
24										

Notes:

Proportions Used: trace (1-10%), little (10-20%), some (20-35%), and (35-50%)

Cohesive Consistency (Blows/ft)		Cohesionless Relative Density (Blows/ft)	
very soft	0-2	very loose	0-4
soft	2-4	loose	4-10
medium stiff	4-8	medium dense	10-30
stiff	8-15	dense	30-50
very stiff	15-30	very dense	50+
hard	30+		

Remarks:
1) Stratification lines represent approximate boundaries between soil and rock types; in-situ the transition may be gradual.
2) Field testing values represent total volatile organic vapors (referenced to an isobutylene standard) measured in the headspace of a sealed soil sample with a photoionization detector (Ion Science Pho Check Tiger) equipped with a 10.6 Ev lamp.
3) Uncorrected N-values

Boring ID

SB-112

TEST BORING LOG

SOVEREIGN CONSULTING INC.
ENVIRONMENTAL & GEOTECHNICAL ENGINEERING

Boring ID: **SB-113**

CASING		SAMPLER	
Type:	HSA	Type:	S.B.
Diameter:	4 1/4	Diameter:	2"

HAMMER			
Type:	Safety	Size:	140 lbs
Drop Method:	Auto	Fall:	30"

WATER LEVEL OBSERVATIONS		
Date	**Depth (ft.)**	**Duration**
Not Observed		

Client:	City of Laconia	Drilling Co.:	GeoSearch
Project:	Frank Bean Road	Drill Rig:	CME-55
Project No.:	NH011	Drill Method:	HSA
Location:	Frank Bean Road	Foreman:	Rodney Dean
	Laconia, NH	Sovereign Inspector:	DHB
		Start Date:	9/13/2013
		Completion Date:	9/13/2013

Depth (ft)	Sample ID	Interval (ft.)	Blows/6"	N-value	Pen./Rec. (in.)	PID (ppmv)	Sample Description (Approx. Surface Elev.:)	Strata Change Depth (ft)	Strata Change Graphic	Notes
	S-1	0-2	2-4	9	24/	0.2	S-1: Loose, brown, SILT, some medium to fine Sand, trace Gravel and root fragments			
2			5-3		2					
	S-2	2-4	3-3	6	24/	0.2	S-2: Loose, tan, SILT, some coarse to fine Sand, trace Gravel			
4			3-4		7					
	S-3	4-6	7-8	17	24/	0.1	S-3: Medium dense, brown, medium to fine SAND, little Silt, trace coarse sand/gravel			
6			9-3		18					
	S-4	6-8	9-8	14	24/	0.1	S-4: Similar to S-3			
8			6-7		16					
	S-5	8-10	7-9	19	24/		S-5: Similar to S-3			
10			10-12		14		[STRATIFIED DRIFT]			
							Exploration terminated at 10'			
12										
14										
16										
18										
20										
22										
24										

Notes:

Proportions Used: trace (1-10%), little (10-20%), some (20-35%), and (35-50%)

Cohesive Consistency (Blows/ft)		Cohesionless Relative Density (Blows/ft)	
very soft	0-2	very loose	0-4
soft	2-4	loose	4-10
medium stiff	4-8	medium dense	10-30
stiff	8-15	dense	30-50
very stiff	15-30	very dense	50+
hard	30+		

Remarks:
1) Stratification lines represent approximate boundaries between soil and rock types; in-situ the transition may be gradual.
2) Field testing values represent total volatile organic vapors (referenced to an isobutylene standard) measured in the headspace of a sealed soil sample with a photoionization detector (Ion Science Pho Check Tiger) equipped with a 10.6 Ev lamp.
3) Uncorrected N-values

Boring ID

SB-113

TEST BORING LOG

SOVEREIGN CONSULTING INC.
ENVIRONMENTAL & GEOTECHNICAL ENGINEERING

Boring ID: **SB-114**

CASING		SAMPLER	
Type:	HSA	Type:	S.B.
Diameter:	4 1/4	Diameter:	2"

HAMMER			
Type:	Safety	Size:	140 lbs
Drop Method:	Auto	Fall:	30"

Client:	City of Laconia	Drilling Co.:	GeoSearch
Project:	Frank Bean Road	Drill Rig:	CME-55
Project No.:	NH011	Drill Method:	HSA
Location:	Frank Bean Road	Foreman:	Rodney Dean
	Laconia, NH	Sovereign Inspector:	DHB
		Start Date:	9/13/2013
		Completion Date:	9/13/2013

WATER LEVEL OBSERVATIONS

Date	Depth (ft.)	Duration
9/13/2013	~27'	DB

Depth (ft)	Sample ID	Interval (ft.)	Blows/6"	N-value	Pen./Rec. (in.)	PID (ppmv)	Sample Description (Approx. Surface Elev.:)	Strata Change Depth (ft)	Strata Change Graphic	Notes
	S-1	0-2	2-3	7	24/	0.1	S-1: Loose, brown, SILT, some fine Sand, trace coarse to medium sand			
2			4-4		12					
	S-2	2-4	8-10	21	24/	0.1	S-2: Similar to S-1, except medium dense			
4			11-13		18					
6	S-3	6-7	2-3	8	24/	0.2	S-3: Loose, tan, SILT, and fine Sand			
			5-6		12					
8	S-4	7-9	6-8	16	24/	0.2	S-4: Medium dense, brown/tan, SILT and medium to fine Sand, trace coarse sand, spoot tip moist/wet (silt)			
			8-11		20					
10										
	S-5	10-12	WOH-2	6	24/	0.2	S-5: Loose, tan, Fine SAND, little Silt, dry			
12			4-7		14					
	S-6	12-14	6-5	11	24/	0.2	S-6: Medium dense, tan, SILT and fine Sand			
14			6-8		18					
16										
18										
20										
22										
24										

Notes:

Proportions Used: trace (1-10%), little (10-20%), some (20-35%), and (35-50%)

Cohesive Consistency (Blows/ft)		Cohesionless Relative Density (Blows/ft)	
very soft	0-2	very loose	0-4
soft	2-4	loose	4-10
medium stiff	4-8	medium dense	10-30
stiff	8-15	dense	30-50
very stiff	15-30	very dense	50+
hard	30+		

Remarks:
1) Stratification lines represent approximate boundaries between soil and rock types; in-situ the transition may be gradual.
2) Field testing values represent total volatile organic vapors (referenced to an isobutylene standard) measured in the headspace of a sealed soil sample with a photoionization detector (Ion Science Pho Check Tiger) equipped with a 10.6 Ev lamp.
3) Uncorrected N-values

Boring ID

SB-114

TEST BORING LOG

SOVEREIGN CONSULTING INC.
ENVIRONMENTAL & GEOTECHNICAL ENGINEERING

Boring ID: **SB-114** **(cont'd)**

CASING		SAMPLER	
Type:	HSA	Type:	S.B.
Diameter:	4 1/4	Diameter:	2 1/4

HAMMER			
Type:	Safety	Size:	140 lbs
Drop Method:	Auto	Fall:	30"

Client:	City of Laconia	Drilling Co.:	GeoSearch
Project:	Frank Bean Road	Drill Rig:	CME-55
Project No.:	NH011	Drill Method:	HSA
Location:	Frank Bean Road	Foreman:	Rodney Dean
	Laconia, NH	Sovereign Inspector:	DHB
		Start Date:	9/13/2013
		Completion Date:	9/13/2013

WATER LEVEL OBSERVATIONS

Date	Depth (ft.)	Duration
9/13/2013	~27'	DB

Depth (ft)	Sample ID	Interval (ft.)	Blows/6"	N-value	Pen./Rec. (in.)	PID (ppmv)	Sample Description	Strata Change Depth (ft)	Strata Change Graphic	Notes
							Approx. Surface Elev.:			
25	S-7	25-27	3-4	10	24/	0.2	S-7: Medium dense, tan, fine SAND and Silt, moist			
			6-9		16					
27	S-8	27-29	8-8	16	24/	0.6	S-8: Medium dense, brown, SILT, some fine Sand, wet	~27'	▼	
			8-5		18					
29							[STRATIFIED DRIFT]			
							Exploration terminated at 29'			
8										
10										
12										
14										
16										
18										
20										
22										
24										

Notes:

Proportions Used: trace (1-10%), little (10-20%), some (20-35%), and (35-50%)

Cohesive Consistency (Blows/ft)		Cohesionless Relative Density (Blows/ft)	
very soft	0-2	very loose	0-4
soft	2-4	loose	4-10
medium stiff	4-8	medium dense	10-30
stiff	8-15	dense	30-50
very stiff	15-30	very dense	50+
hard	30+		

Remarks: 1) Stratification lines represent approximate boundaries between soil and rock types; in-situ the transition may be gradual.
2) Field testing values represent total volatile organic vapors (referenced to an isobutylene standard) measured in the headspace of a sealed soil sample with a photoionization detector (Ion Science Pho Check Tiger) equipped with a 10.6 Ev lamp.
3) Uncorrected N-values

Boring ID

SB-114 (cont'd)

TEST BORING LOG

SOVEREIGN CONSULTING INC.
ENVIRONMENTAL & GEOTECHNICAL ENGINEERING

Boring ID: **SB-115**

CASING		SAMPLER	
Type:	HSA	Type:	S.B.
Diameter:	4 1/4	Diameter:	2"

HAMMER			
Type:	Safety	Size:	140 lbs
Drop Method:	Auto	Fall:	30"

WATER LEVEL OBSERVATIONS		
Date	**Depth (ft.)**	**Duration**
Not Observed		

Client:	City of Laconia	Drilling Co.:	GeoSearch
Project:	Frank Bean Road	Drill Rig:	CME-55
Project No.:	NH011	Drill Method:	HSA
Location:	Frank Bean Road	Foreman:	Rodney Dean
	Laconia, NH	Sovereign Inspector:	DHB
		Start Date:	9/13/2013
		Completion Date:	9/13/2013

Depth (ft)	Sample ID	Interval (ft.)	Blows/6"	N-value	Pen./Rec. (in.)	PID (ppmv)	Sample Description (Approx. Surface Elev.:)	Strata Change Depth (ft)	Strata Change Graphic	Notes
	S-1	0-2	1-5	13	24/	0.1	S-1: Medium dense, brown, SILT and coarse to fine Sand			
2			8-8		14					
	S-2	2-4	7-12	22	24/	0.1	S-2: Similar to S-1, except no coarse Sand			
4			10-10		20					
6	S-3	5-7	3-6	17	24/	0.1	S-3: Similar to S-1, except trace Gravel			
			11-16		16					
8	S-4	7-9	17-13	24	24/	0.1	S-4: Similar to S-1			
			11-14		3		[STRATIFIED DRIFT]			
10							Exploration terminated at 9'			
12										
14										
16										
18										
20										
22										
24										

Notes:

Proportions Used: trace (1-10%), little (10-20%), some (20-35%), and (35-50%)

Cohesive Consistency (Blows/ft)		Cohesionless Relative Density (Blows/ft)	
very soft	0-2	very loose	0-4
soft	2-4	loose	4-10
medium stiff	4-8	medium dense	10-30
stiff	8-15	dense	30-50
very stiff	15-30	very dense	50+
hard	30+		

Remarks:
1) Stratification lines represent approximate boundaries between soil and rock types; in-situ the transition may be gradual.
2) Field testing values represent total volatile organic vapors (referenced to an isobutylene standard) measured in the headspace of a sealed soil sample with a photoionization detector (Ion Science Pho Check Tiger) equipped with a 10.6 Ev lamp.
3) Uncorrected N-values

Boring ID

SB-115

TEST BORING LOG

SOVEREIGN CONSULTING INC.
ENVIRONMENTAL & GEOTECHNICAL ENGINEERING

Boring ID: **SB-116**

CASING		SAMPLER	
Type:	HSA	Type:	S.B.
Diameter:	4 1/4	Diameter:	2"

HAMMER			
Type:	Safety	Size:	140 lbs
Drop Method:	Auto	Fall:	30"

Client:	City of Laconia
Project:	Frank Bean Road
Project No.:	NH011
Location:	Frank Bean Road
	Laconia, NH

Drilling Co.:	GeoSearch
Drill Rig:	CME-55
Drill Method:	HSA
Foreman:	Rodney Dean
Sovereign Inspector:	DHB
Start Date:	9/13/2013
Completion Date:	9/13/2013

WATER LEVEL OBSERVATIONS

Date	Depth (ft.)	Duration
Not Observed		

Depth (ft)	Sample ID	Interval (ft.)	Blows/6"	N-value	Pen./Rec. (in.)	PID (ppmv)	Sample Description (Approx. Surface Elev.:)	Strata Change Depth (ft)	Strata Change Graphic	Notes
	S-1	0-2	1-4	9	24/	0.2	S-1: Loose, brown, SILT and medium to fine Sand			
2			5-6		19					
	S-2	2-4	6-7	14	24/	0.1	S-2: Similar to S-1, except medium dense			
4			7-7		18					
6	S-3	5-7	2-5	12	24/	0.1	S-3: Medium dense, brown, fine SAND and Silt, trace medium Sand, ~1" Silt horizon			
			7-13		14					
8	S-4	7-9	9-6	12	24/	0.1	S-4: Medium dense, brown, fine SAND and Silt			
			6-6		20		[STRATIFIED DRIFT]			
10							Exploration terminated at 9'			
12										
14										
16										
18										
20										
22										
24										

Notes:

Proportions Used: trace (1-10%), little (10-20%), some (20-35%), and (35-50%)

Cohesive Consistency (Blows/ft)		Cohesionless Relative Density (Blows/ft)	
very soft	0-2	very loose	0-4
soft	2-4	loose	4-10
medium stiff	4-8	medium dense	10-30
stiff	8-15	dense	30-50
very stiff	15-30	very dense	50+
hard	30+		

Remarks:
1) Stratification lines represent approximate boundaries between soil and rock types; in-situ the transition may be gradual.
2) Field testing values represent total volatile organic vapors (referenced to an isobutylene standard) measured in the headspace of a sealed soil sample with a photoionization detector (Ion Science Pho Check Tiger) equipped with a 10.6 Ev lamp.
3) Uncorrected N-values

Boring ID

SB-116

TEST BORING LOG

SOVEREIGN CONSULTING INC.
ENVIRONMENTAL & GEOTECHNICAL ENGINEERING

Boring ID: **SB-117**

CASING		SAMPLER	
Type:	HSA	Type:	S.B.
Diameter:	4 1/4	Diameter:	2"

HAMMER			
Type:	Safety	Size:	140 lbs
Drop Method:	Auto	Fall:	30"

WATER LEVEL OBSERVATIONS		
Date	**Depth (ft.)**	**Duration**
Not Observed		

Client:	City of Laconia	Drilling Co.:	GeoSearch
Project:	Frank Bean Road	Drill Rig:	CME-55
Project No.:	NH011	Drill Method:	HSA
Location:	Frank Bean Road	Foreman:	Rodney Dean
	Laconia, NH	Sovereign Inspector:	DHB
		Start Date:	9/13/2013
		Completion Date:	9/13/2013

Depth (ft)	Sample ID	Interval (ft.)	Blows/6"	N-value	Pen./Rec. (in.)	PID (ppmv)	Sample Description Approx. Surface Elev.:	Strata Change Depth (ft)	Strata Change Graphic	Notes
	S-1	0-2	2-3	7	24/	0.2	S-1: Loose, brown, fine SAND and Silt			
2			4-6		5					
	S-2	2-4	6-6	12	24/	0.1	S-2: Medium dense, brown, fine SAND and Silt			
4			6-7		18					
6	S-3	5-7	2-4	8	24/	0.1	S-3: Loose, brown, SILT, some fine Sand			
			4-5		14					
8	S-4	7-9	7-6	12	24/	0.1	S-4: Medium dense, medium to fine SAND, some Silt			
			6-7		16		[STRATIFIED DRIFT]			
10							Exploration terminated at 9'			
12										
14										
16										
18										
20										
22										
24										

Notes:

Proportions Used: trace (1-10%), little (10-20%), some (20-35%), and (35-50%)

Cohesive Consistency (Blows/ft)		Cohesionless Relative Density (Blows/ft)	
very soft	0-2	very loose	0-4
soft	2-4	loose	4-10
medium stiff	4-8	medium dense	10-30
stiff	8-15	dense	30-50
very stiff	15-30	very dense	50+
hard	30+		

Remarks:
1) Stratification lines represent approximate boundaries between soil and rock types; in-situ the transition may be gradual.
2) Field testing values represent total volatile organic vapors (referenced to an isobutylene standard) measured in the headspace of a sealed soil sample with a photoionization detector (Ion Science Pho Check Tiger) equipped with a 10.6 Ev lamp.
3) Uncorrected N-values

Boring ID

SB-117

TEST BORING/MONITORINGWELL LOG

SOVEREIGN CONSULTING INC.
ENVIRONMENTAL & GEOTECHNICAL ENGINEERING

Boring ID: **SB-118/MW**

CASING		SAMPLER	
Type:	HSA	Type:	S.B.
Diameter:	4 1/4	Diameter:	2"

HAMMER			
Type:	Safety	Size:	140 lbs
Drop Method:	Automatic	Fall:	30"

Client:	City of Laconia
Project:	Frank Bean Road
Project No.:	NH011
Location:	Frank Bean Road Laconia, NH

Drilling Co.:	GeoSearch
Drill Rig:	CME-55
Drill Method:	HSA
Foreman:	Rodney Dean
Sovereign Inspector:	DHB
Start Date:	9/16/2013
Completion Date:	9/16/2013

WATER LEVEL OBSERVATIONS

Date	Depth (ft.)	Duration
Not Observed		

Approx. Surface Elev.:

Depth (ft)	Sample ID	Interval (ft.)	Blows/6"	N-value	Pen./Rec. (in.)	PID (ppmv)	Sample Description	Strata Change Depth (ft.)	Strata Change Graphic	Notes	Monitoring Well Construction
	S-1	0-2	3-3	9	24/	0.1	S-1: Loose, brown, medium to fine SAND and Silt, trace coarse Sand and Gravel				
2			6-7		18						
4											
6	S-2	5-7	13-8	12	24/	0.1	S-2: Medium dense, brown, medium to fine SAND and Silt, trace coarse Sand and Gravel				
			4-4		16						
8											
10											
	S-3	10-12	2-4	9	24/	0.1	S-3: Loose, tan, fine SAND, some Silt, trace medium				
12			5-6		18						
14											
16	S-4	15-17	2-4	9	24/	0.1	S-4: Loose, tan, fine SAND, little Silt, trace medium Sand, moist				
			5-7		12						
18											
20											
	S-5	20-22	3-4	10	24/	0.1	S-5: Medium dense, tan, fine SAND, some medium Sand, little Silt, moist				
22			6-8		12						
24											

Notes:

Proportions Used: trace (1-10%), little (10-20%), some (20-35%), and (35-50%)

Cohesive Consistency (Blows/ft)		Cohesionless Relative Density (Blows/ft)	
very soft	0-2	very loose	0-4
soft	2-4	loose	4-10
medium stiff	4-8	medium dense	10-30
stiff	8-15	dense	30-50
very stiff	15-30	very dense	50+
hard	30+		

Remarks: 1) Stratification lines represent approximate boundaries between soil and rock types; in-situ the transition may be gradual.
2) Field testing values represent total volatile organic vapors (referenced to an isobutylene standard) measured in the headspace of a sealed soil sample with a photoionization detector (Ion Science Pho Check Tiger) equipped with a 10.6 Ev lamp.
3) Uncorrected N-values

Boring ID

SB-118/MW

TEST BORING/MONITORINGWELL LOG

SOVEREIGN CONSULTING INC.
ENVIRONMENTAL & GEOTECHNICAL ENGINEERING

Boring ID: **SB-118/MW (cont'd)**

CASING		SAMPLER	
Type:	HSA	Type:	S.B.
Diameter:	4 1/4	Diameter:	2"

HAMMER			
Type:	Safety	Size:	140 lbs
Drop Method:	Automatic	Fall:	30"

WATER LEVEL OBSERVATIONS		
Date	Depth (ft.)	Duration
Not Observed		

Client:	City of Laconia
Project:	Frank Bean Road
Project No.:	NH011
Location:	Frank Bean Road Laconia, NH

Drilling Co.:	GeoSearch
Drill Rig:	CME-55
Drill Method:	HSA
Foreman:	Rodney Dean
Sovereign Inspector:	DHB
Start Date:	9/16/2013
Completion Date:	9/16/2013

Approx. Surface Elev.:

Depth (ft)	Sample ID	Interval (ft.)	Blows/6"	N-value	Pen./Rec. (in.)	PID (ppmv)	Sample Description	Strata Change Depth (ft.)	Strata Change Graphic	Notes	Monitoring Well Construction
25	S-6	25-27	6-7		24/	0.1	S-6: Medium dense, brown, SILT and fine Sand, trace coarse to medium Sand and Gravel				
27			9-9		14						
28											
30											
	S-7	30-32	10-21		24/	0	S-7: Dense, brown, SILT, little coarse to fine Sand and Gravel, moist				
32			22-23		20						
34											
36	S-8	35-37	12-20		24/	0	S-8: Similar to S-7, except very dense				
			32-33		20						
38											
40							[STRATIFIED DRIFT]	40'			
	S-9	40-42	33-63		24/	0.1	S-9: Very dense, gray, SILT, Rock fragments in spoon tip, elevated blows				
42			60/5"		15						
44											
46	S-10	45-47	47-38		24/	0	S-10: Very dense, gray, SILT, trace gravel/coarse Sand, rock fragment in spoon tip spoon casing wet				
			41-62/5"		12						
48											
50											

Notes:

Proportions Used: trace (1-10%), little (10-20%), some (20-35%), and (35-50%)

Cohesive Consistency (Blows/ft)		Cohesionless Relative Density (Blows/ft)	
very soft	0-2	very loose	0-4
soft	2-4	loose	4-10
medium stiff	4-8	medium dense	10-30
stiff	8-15	dense	30-50
very stiff	15-30	very dense	50+
hard	30+		

Remarks:
1) Stratification lines represent approximate boundaries between soil and rock types; in-situ the transition may be gradual.
2) Field testing values represent total volatile organic vapors (referenced to an isobutylene standard) measured in the headspace of a sealed soil sample with a photoionization detector (Ion Science Pho Check Tiger) equipped with a 10.6 Ev lamp.
3) Uncorrected N-values

Boring ID
SB-118/MW (cont'd)

TEST BORING/MONITORINGWELL LOG

SOVEREIGN CONSULTING INC.
ENVIRONMENTAL & GEOTECHNICAL ENGINEERING

Boring ID: **SB-118/MW (cont'd)**

CASING		SAMPLER	
Type:	HSA	Type:	S.B.
Diameter:	4 1/4	Diameter:	2"

HAMMER			
Type:	Safety	Size:	140 lbs
Drop Method:	Automatic	Fall:	30"

Client:	City of Laconia
Project:	Frank Bean Road
Project No.:	NH011
Location:	Frank Bean Road, Laconia, NH

Drilling Co.:	GeoSearch
Drill Rig:	CME-55
Drill Method:	HSA
Foreman:	Rodney Dean
Sovereign Inspector:	DHB
Start Date:	9/16/2013
Completion Date:	9/16/2013

WATER LEVEL OBSERVATIONS

Date	Depth (ft.)	Duration
Not Observed		

Depth (ft)	Sample ID	Interval (ft.)	Blows/6"	N-value	Pen./Rec. (in.)	PID (ppmv)	Sample Description (Approx. Surface Elev.:)	Strata Change Depth (ft.)	Strata Change Graphic	Notes	Monitoring Well Construction
50	S-11	50-52	54-87	100+	16/	0.1	S-11: Very dense, gray, SILT, trace rock fragments, spoon tip, wet material, mostly dry				
52			50/4"		14						
54											
56	S-12	55-57	46-70/4"	70	10/	0	S-12: Dense, gray, SILT, trace coarse to fine Sand				
			Refusal		8						
58											
60	S-13	60-62	40-118	100+	12/	0	S-13: Similar to S-12, except trace Gravel				
			Refusal		12						
62							[TILL]				
							Exploration Refusal, Suspected B.R. at 62'				
64											
66											
68											
70											
72											
74											

Standpipe: Dia. N/A **in.**

Stickup: N/A **ft.**

Roadbox: Dia. 6 **in.**

PVC: Dia. 2 **in.**

Key: Cement, Grout, Bentonite, Sand

Notes:

Proportions Used: trace (1-10%), little (10-20%), some (20-35%), and (35-50%)

Cohesive Consistency (Blows/ft)		Cohesionless Relative Density (Blows/ft)	
very soft	0-2	very loose	0-4
soft	2-4	loose	4-10
medium stiff	4-8	medium dense	10-30
stiff	8-15	dense	30-50
very stiff	15-30	very dense	50+
hard	30+		

Remarks:
1) Stratification lines represent approximate boundaries between soil and rock types; in-situ the transition may be gradual.
2) Field testing values represent total volatile organic vapors (referenced to an isobutylene standard) measured in the headspace of a sealed soil sample with a photoionization detector (Ion Science Pho Check Tiger) equipped with a 10.6 Ev lamp.
3) Uncorrected N-values

Boring ID
SB-118/MW (cont'd)

TEST BORING/MONITORINGWELL LOG

SOVEREIGN CONSULTING INC.
ENVIRONMENTAL & GEOTECHNICAL ENGINEERING

Boring ID: **SB-119/MW**

CASING		SAMPLER	
Type:	HSA	Type:	S.B.
Diameter:	4 1/4	Diameter:	2"

HAMMER			
Type:	Safety	Size:	140 lbs
Drop Method:	Automatic	Fall:	30"

Client:	City of Laconia
Project:	Frank Bean Road
Project No.:	NH011
Location:	Frank Bean Road Laconia, NH

Drilling Co.:	GeoSearch
Drill Rig:	CME-55
Drill Method:	HSA
Foreman:	Rodney Dean
Sovereign Inspector:	DHB
Start Date:	9/16/2013
Completion Date:	9/16/2013

WATER LEVEL OBSERVATIONS

Date	Depth (ft.)	Duration
9/16/2013	~32'	DB

Approx. Surface Elev.:

Depth (ft)	Sample ID	Interval (ft.)	Blows/6"	N-value	Pen./Rec. (in.)	PID (ppmv)	Sample Description
							~2" TOPSOIL
	S-1	0-2	4-11	17	24/	0.1	S-1: Medium dense, dark brown SILT, trace coarse to fine Sand, 1/2 Ash seam - 10" bgs
2			8-5		16		
	S-2	2-4	2-6	11	24/	0.1	S-2: Similar to S-1, except trace Ash and brick fragments
4			5-4		14		
	S-3	4-6	1-4	12	24/	0.1	S-3: Medium dense, dark, brown, SILT and Ash, little fine Sand, trace glass and ceramic
6			8-6		4		
	S-4	6-8	3-2	3	24/	0.1	S-4: Very loose, dark brown SILT, some Ash, trace glass
8			1-1		5		
	S-5	8-10	1-3	7	24/	0	S-5: Loose, brown, SILT, trace Ash and glass, fabric
10			4-3		6		Burn Dump
	S-6	10-12	3-3	6	24/	0	S-6: Loose, brown, SILT and medium to fine Sand, trace coarse Sand and Gravel
12			3-4		16		
	S-7	12-14	6-4	7	24/	0	S-7: Loose, brown/tan, SILT and fine Sand, little medium Sand, trace coarse Sand/Gravel
14			3-5		16		
	S-8	14-16	3-5	11	24/	0.7	S-8: Medium dense, tan, SILT and fine Sand, trace coarse Sand and Gravel
16			6-6		12		
	S-9	16-18	6-5	11	24/	0.6	S-9: Similar to S-8
18			6-7		14		
	S-10	18-20	3-4	8	24/	0.7	S-10: Similar to S-8, Loose
20			4-4		16		
	S-11	20-22	4-7	16	24/	0.4	S-11: Medium dense, coarse to fine SAND and Gravel,
22			9-11		4		
24							

Strata Change

Depth (ft.)	Graphic
9'	

Notes

Monitoring Well Construction

Notes:

Proportions Used: trace (1-10%), little (10-20%), some (20-35%), and (35-50%)

Cohesive Consistency (Blows/ft)		Cohesionless Relative Density (Blows/ft)	
very soft	0-2	very loose	0-4
soft	2-4	loose	4-10
medium stiff	4-8	medium dense	10-30
stiff	8-15	dense	30-50
very stiff	15-30	very dense	50+
hard	30+		

Remarks: 1) Stratification lines represent approximate boundaries between soil and rock types; in-situ the transition may be gradual.
2) Field testing values represent total volatile organic vapors (referenced to an isobutylene standard) measured in the headspace of a sealed soil sample with a photoionization detector (Ion Science Pho Check Tiger) equipped with a 10.6 Ev lamp.
3) Uncorrected N-values

Boring ID

SB-119/MW

TEST BORING/MONITORINGWELL LOG

SOVEREIGN CONSULTING INC.
ENVIRONMENTAL & GEOTECHNICAL ENGINEERING

Boring ID: **SB-119/MW (cont'd)**

CASING		SAMPLER	
Type:	HSA	Type:	S.B.
Diameter:	4 1/4	Diameter:	2"

HAMMER			
Type:	Safety	Size:	140 lbs
Drop Method:	Automatic	Fall:	30"

Client:	City of Laconia	Drilling Co.:	GeoSearch
Project:	Frank Bean Road	Drill Rig:	CME-55
Project No.:	NH011	Drill Method:	HSA
Location:	Frank Bean Road	Foreman:	Rodney Dean
	Laconia, NH	Sovereign Inspector:	DHB
		Start Date:	9/13/2013
		Completion Date:	9/13/2013

WATER LEVEL OBSERVATIONS

Date	Depth (ft.)	Duration
9/13/2013	~32'	DB

Depth (ft)	Sample ID	Interval (ft.)	Blows/6"	N-value	Pen./Rec. (in.)	PID (ppmv)	Sample Description	Strata Change Depth (ft.)	Strata Change Graphic	Notes	Monitoring Well Construction
26	S-12	25-27	5-5	13	24/	0.8	S-12: Medium dense, brown, SILT and fine Sand, trace coarse Sand/Gravel				
			8-9		16						
28											
30											
	S-13	30-32	2-5	11	24/	0.8	S-13:" Medium dense, brown, SILT and fine Sand, wet				
32			6-8		16			~32'	▼		
34											
36							[STRATIFIED DRIFT]				
38							Exploration terminated at 37'				
40											
42											
44											
46											
48											
50											

Approx. Surface Elev.:

Standpipe: Dia. N/A **in.**

Stickup: N/A **ft.**

Roadbox: Dia. 6 **in.**

PVC: Dia. 2 **in.**

Key: Cement, Grout, Bentonite, Sand

Notes:

Proportions Used: trace (1-10%), little (10-20%), some (20-35%), and (35-50%)

Cohesive Consistency (Blows/ft)		Cohesionless Relative Density (Blows/ft)	
very soft	0-2	very loose	0-4
soft	2-4	loose	4-10
medium stiff	4-8	medium dense	10-30
stiff	8-15	dense	30-50
very stiff	15-30	very dense	50+
hard	30+		

Remarks: 1) Stratification lines represent approximate boundaries between soil and rock types; in-situ the transition may be gradual.
2) Field testing values represent total volatile organic vapors (referenced to an isobutylene standard) measured in the headspace of a sealed soil sample with a photoionization detector (Ion Science Pho Check Tiger) equipped with a 10.6 Ev lamp.
3) Uncorrected N-values

Boring ID

SB-119/MW (cont'd)

TEST BORING/MONITORINGWELL LOG

SOVEREIGN CONSULTING INC.
ENVIRONMENTAL & GEOTECHNICAL ENGINEERING

Boring ID: **SB-120/MW**

CASING		SAMPLER	
Type:	HSA	Type:	S.B.
Diameter:	4 1/4	Diameter:	2"

HAMMER			
Type:	Safety	Size:	140 lbs
Drop Method:	Automatic	Fall:	30"

Client:	City of Laconia
Project:	Frank Bean Road
Project No.:	NH011
Location:	Frank Bean Road Laconia, NH

Drilling Co.:	GeoSearch
Drill Rig:	CME-55
Drill Method:	HSA
Foreman:	Rodney Dean
Sovereign Inspector:	DHB
Start Date:	9/16/2013
Completion Date:	9/16/2013

WATER LEVEL OBSERVATIONS

Date	Depth (ft.)	Duration
9/16/2013	~45'	DB

Depth (ft)	Sample ID	Interval (ft.)	Blows/6"	N-value	Pen./Rec. (in.)	PID (ppmv)	Sample Description Approx. Surface Elev.:	Strata Change Depth (ft.)	Strata Change Graphic	Notes	Monitoring Well Construction
							~3" TOPSOIL	3"			
	S-1	0-2	2-3	7	24/	0.2	S-1: 4" Brown SILT 6" Black Ash, Glass				
2			4-4		13						
	S-2	2-4	2-3	4	24/	0.2	S-2: Loose, black/gray ASH, spoon tip brown fine Sand				
4			1-1		7						
	S-3	4-6	4-2	6	24/	0.3	S-3: Loose, brown, SILT and fine Sand, some Ash				
6			4-5		6						
	S-4	6-8	4-2	4	24/	0.1	S-4: Loose, brown, SILT, some coarse to fine Sand, trace glass				
8			2-4		2						
	S-5	8-10	2-2	6	24/	0.3	S-5: Loose, brown, SILT, little Ash, glass				
10			4-1		8						
	S-6	10-12	1-2	5	24/	0.7	S-6: Loose, brown, SILT, little Ash, trace glass				
12			3-3		8						
	S-7	12-14	4-3	7	24/	0.7	S-7: Similar to S-6				
14			4-4		6		Burn Dump	14'			
	S-8	14-16	1-3	6	24/	0.7	S-8: Loose, brown, fine SAND and Silt, trace coarse to medium Sand, moist				
16			3-4		18						
	S-9	16-18	4-5	10	24/	0.7	S-9: Similar to S-8, except medium dense				
18			5-5		14						
20											
	S-10	20-22	2-3	6	24/	0.6	S10: Loose, tan/brown, fine SAND, little Silt				
22			3-5		16						
24											

Notes:

Proportions Used: trace (1-10%), little (10-20%), some (20-35%), and (35-50%)

Cohesive Consistency (Blows/ft)		Cohesionless Relative Density (Blows/ft)	
very soft	0-2	very loose	0-4
soft	2-4	loose	4-10
medium stiff	4-8	medium dense	10-30
stiff	8-15	dense	30-50
very stiff	15-30	very dense	50+
hard	30+		

Remarks: 1) Stratification lines represent approximate boundaries between soil and rock types; in-situ the transition may be gradual.
2) Field testing values represent total volatile organic vapors (referenced to an isobutylene standard) measured in the headspace of a sealed soil sample with a photoionization detector (Ion Science Pho Check Tiger) equipped with a 10.6 Ev lamp.
3) Uncorrected N-values

Boring ID

SB-120/MW

ATTACHMENT F

Aquarian Analytical, Inc.
Laboratory Services
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Phone - 603-783-9097
www.Aquarianlabs.com

24 September 2013

Mr. Mark Henderson
Sovereign Consulting, Inc.
7 Hills Avenue
Concord, NH 03301

RE: Frank Bean Road - Laconia, NH

Dear Mr. Henderson:

Enclosed are the results of analyses for the following samples, which were received at 4 c.

Laboratory ID	Sample ID	Sample matrix	Date sampled	Date received
1309036-01	**SB-103 @ 28'-30'**	Soil	09-Sep-13 16:40	12-Sep-13 08:30
1309036-02	**SB-102 @ 4'-6'**	Soil	09-Sep-13 16:45	12-Sep-13 08:30
1309036-03	**SB-101 @ 4'-6'**	Soil	09-Sep-13 16:50	12-Sep-13 08:30

The results in this report relate only to the submitted samples. Please refer to our website listed above for a list of accredited parameters. If you have any questions concerning this report, please feel free to contact me.

Alan G. Naber
Laboratory Director

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Sovereign Consulting, Inc.	Project: Frank Bean Road - Laconia, NH	
7 Hills Avenue	Project Number: NH011	**Reported:**
Concord NH, 03301	Project Manager: Mr. Mark Henderson	24-Sep-13 16:34

SB-103 @ 28'-30'
1309036-01 (Soil)

Sampled: 9-Sep-13

Volatile Organic Compounds by EPA 8260B

Analyte	CAS Number	Result	Reporting Limit	Units	Analyzed	Notes
Acetone	67-64-1	BD	3.3	mg/Kg	16-Sep-13	
Benzene	71-43-2	BD	0.05	mg/Kg	16-Sep-13	
Bromobenzene	108-86-1	BD	0.13	mg/Kg	16-Sep-13	
Bromochloromethane	74-97-5	BD	0.13	mg/Kg	16-Sep-13	
Bromodichloromethane	75-27-4	BD	0.13	mg/Kg	16-Sep-13	
Bromoform	75-25-2	BD	0.13	mg/Kg	16-Sep-13	
Bromomethane	74-83-9	BD	0.13	mg/Kg	16-Sep-13	
Butylbenzene, n-	104-51-8	BD	0.13	mg/Kg	16-Sep-13	
Butylbenzene, sec-	135-98-8	**0.13**	0.13	mg/Kg	16-Sep-13	
Butylbenzene, tert-	98-06-6	BD	0.13	mg/Kg	16-Sep-13	
Carbon disulfide	75-15-0	BD	0.53	mg/Kg	16-Sep-13	
Carbon Tetrachloride	56-23-5	BD	0.13	mg/Kg	16-Sep-13	
Chloroethane	75-00-3	BD	0.13	mg/Kg	16-Sep-13	
Chloromethane	74-87-3	BD	0.26	mg/Kg	16-Sep-13	
Chlorotoluene, 2	95-49-8	BD	0.13	mg/Kg	16-Sep-13	
Chlorotoluene, 4	106-43-4	BD	0.13	mg/Kg	16-Sep-13	
Dibromochloromethane	124-48-1	BD	0.13	mg/Kg	16-Sep-13	
Dibromochloropropane	96-12-8	BD	0.26	mg/Kg	16-Sep-13	
Dibromomethane	74-95-3	BD	0.13	mg/Kg	16-Sep-13	
Dichlorobenzene, 1,2-	95-50-1	**0.57**	0.13	mg/Kg	16-Sep-13	
Dichlorobenzene, 1,3-	541-73-1	BD	0.13	mg/Kg	16-Sep-13	
Dichlorobenzene, 1,4-	106-46-7	BD	0.13	mg/Kg	16-Sep-13	
Dichlorodifluoromethane	75-71-8	BD	0.26	mg/Kg	16-Sep-13	
Dichloroethane, 1,1-	75-34-3	BD	0.13	mg/Kg	16-Sep-13	
Dichloroethane, 1,2-	107-06-2	BD	0.13	mg/Kg	16-Sep-13	
Dichloroethylene, 1,1-	75-35-4	BD	0.13	mg/Kg	16-Sep-13	
Dichloroethylene, cis-1,2-	156-59-2	BD	0.13	mg/Kg	16-Sep-13	
Dichloroethylene, trans-1,2-	156-60-5	BD	0.13	mg/Kg	16-Sep-13	
Dichloromethane	75-09-2	BD	0.26	mg/Kg	16-Sep-13	
Dichloropropane, 1,2-	78-87-5	BD	0.13	mg/Kg	16-Sep-13	
Dichloropropane, 1,3-	142-28-9	BD	0.13	mg/Kg	16-Sep-13	
Dichloropropane, 2,2-	594-20-7	BD	0.39	mg/Kg	16-Sep-13	
Dichloropropene, 1,1-	563-58-6	BD	0.13	mg/Kg	16-Sep-13	
Dichloropropene, cis-1,3-	10061-01-5	BD	0.13	mg/Kg	16-Sep-13	
Dichloropropene, trans-1,3-	10061-02-6	BD	0.13	mg/Kg	16-Sep-13	
Diethyl Ether	60-29-7	BD	3.3	mg/Kg	16-Sep-13	
Diisopropyl Ether	108-20-3	BD	0.13	mg/Kg	16-Sep-13	
Ethylbenzene	100-41-4	BD	0.13	mg/Kg	16-Sep-13	
Ethylene dibromide	106-93-4	BD	0.13	mg/Kg	16-Sep-13	
Ethyl tert-Butyl Ether	637-92-3	BD	0.13	mg/Kg	16-Sep-13	

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Sovereign Consulting, Inc.	Project: Frank Bean Road - Laconia, NH	
7 Hills Avenue	Project Number: NH011	**Reported:**
Concord NH, 03301	Project Manager: Mr. Mark Henderson	24-Sep-13 16:34

SB-103 @ 28'-30'
1309036-01 (Soil)

Sampled: 9-Sep-13

Volatile Organic Compounds by EPA 8260B

Analyte	CAS Number	Result	Reporting Limit	Units	Analyzed	Notes
Hexachlorobutadiene	87-68-3	BD	0.26	mg/Kg	16-Sep-13	
Isopropylbenzene	98-82-8	BD	0.13	mg/Kg	16-Sep-13	
Isopropyltoluene, p-	99-87-6	BD	0.13	mg/Kg	16-Sep-13	
Methyl Butyl Ketone (2-Hexanone)	591-78-6	BD	3.3	mg/Kg	16-Sep-13	
Methyl Ethyl Ketone (2-Butanone)	78-93-3	BD	3.3	mg/Kg	16-Sep-13	
Methyl Isobutyl Ketone	108-10-1	BD	3.3	mg/Kg	16-Sep-13	
Methyl-tert-Butyl Ether	1634-04-4	BD	0.05	mg/Kg	16-Sep-13	
Monochlorobenzene	108-90-7	BD	0.13	mg/Kg	16-Sep-13	
Naphthalene	91-20-3	BD	0.26	mg/Kg	16-Sep-13	
n-Propylbenzene	103-65-1	BD	0.13	mg/Kg	16-Sep-13	
Styrene	100-42-5	BD	0.13	mg/Kg	16-Sep-13	
tert-Amyl Methyl Ether	994-05-8	BD	0.26	mg/Kg	16-Sep-13	
tert-Butyl alcohol	75-65-0	BD	1.3	mg/Kg	16-Sep-13	
Tetrachloroethane, 1,1,1,2-	630-20-6	BD	0.13	mg/Kg	16-Sep-13	
Tetrachloroethane, 1,1,2,2-	79-34-5	BD	0.13	mg/Kg	16-Sep-13	
Tetrachloroethylene	127-18-4	BD	0.13	mg/Kg	16-Sep-13	
Tetrahydrofuran	109-99-9	BD	3.3	mg/Kg	16-Sep-13	
Toluene	108-88-3	BD	0.13	mg/Kg	16-Sep-13	
Trichlorobenzene, 1,2,3-	87-61-6	BD	0.26	mg/Kg	16-Sep-13	
Trichlorobenzene, 1,2,4-	120-82-1	BD	0.26	mg/Kg	16-Sep-13	
Trichlorobenzene, 1,3,5-	108-70-3	BD	0.26	mg/Kg	16-Sep-13	
Trichloroethane, 1,1,1-	71-55-6	BD	0.13	mg/Kg	16-Sep-13	
Trichloroethane, 1,1,2-	79-00-5	BD	0.13	mg/Kg	16-Sep-13	
Trichloroethylene	79-01-6	**0.44**	0.05	mg/Kg	16-Sep-13	
Trichloro 1,1,2-, trifluoro 1,2,2-, ethane	76-13-1	BD	0.26	mg/Kg	16-Sep-13	
Trichlorofluoromethane	75-69-4	BD	0.26	mg/Kg	16-Sep-13	
Trichloromethane	67-66-3	BD	0.13	mg/Kg	16-Sep-13	
Trichloropropane, 1,2,3-	96-18-4	BD	0.13	mg/Kg	16-Sep-13	
Trimethylbenzene, 1,2,4-	95-63-6	BD	0.13	mg/Kg	16-Sep-13	
Trimethylbenzene, 1,3,5-	108-67-8	BD	0.13	mg/Kg	16-Sep-13	
Vinyl chloride	75-01-4	BD	0.53	mg/Kg	16-Sep-13	
Xylenes, m & p-	108-38-3,106-42-3	BD	0.26	mg/Kg	16-Sep-13	
Xylenes, o-	95-47-6	BD	0.13	mg/Kg	16-Sep-13	

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Sovereign Consulting, Inc.	Project: Frank Bean Road - Laconia, NH	
7 Hills Avenue	Project Number: NH011	**Reported:**
Concord NH, 03301	Project Manager: Mr. Mark Henderson	24-Sep-13 16:34

SB-103 @ 28'-30'
1309036-01 (Soil)

Sampled: 9-Sep-13

Polycyclic Aromatic Hydrocarbons

Analyte	CAS Number	Result	Reporting Limit	Units	Analyzed	Method	Notes
Acenaphthene	83-32-9	BD	1.2	mg/Kg	23-Sep-13	8270C	
Acenaphthylene	208-96-8	BD	1.2	mg/Kg	23-Sep-13	8270C	
Anthracene	120-12-7	BD	1.2	mg/Kg	23-Sep-13	8270C	
Benzo(a)anthracene	56-55-3	BD	0.30	mg/Kg	23-Sep-13	8270C	
Benzo(a)pyrene	50-32-8	BD	0.60	mg/Kg	23-Sep-13	8270C	
Benzo(b)fluoranthene	205-99-2	BD	0.30	mg/Kg	23-Sep-13	8270C	
Benzo(g,h,i)perylene	191-24-2	BD	1.2	mg/Kg	23-Sep-13	8270C	CCV
Benzo(k)fluoranthene	207-08-9	BD	1.2	mg/Kg	23-Sep-13	8270C	
Chrysene	218-01-9	BD	1.2	mg/Kg	23-Sep-13	8270C	
Dibenz (a,h) anthracene	53-70-3	BD	0.30	mg/Kg	23-Sep-13	8270C	CCV
Fluoranthene	206-44-0	BD	1.2	mg/Kg	23-Sep-13	8270C	
Fluorene	86-73-7	BD	1.2	mg/Kg	23-Sep-13	8270C	
Indeno(1,2,3-cd)pyrene	193-39-5	BD	0.30	mg/Kg	23-Sep-13	8270C	CCV
Methylnaphthalene, 1-	90-12-0	BD	1.2	mg/Kg	23-Sep-13	8270C	
Methylnaphthalene, 2-	91-57-6	BD	1.2	mg/Kg	23-Sep-13	8270C	
Naphthalene	91-20-3	BD	1.2	mg/Kg	23-Sep-13	8270C	
Phenanthrene	85-01-8	BD	1.2	mg/Kg	23-Sep-13	8270C	
Pyrene	129-00-0	BD	1.2	mg/Kg	23-Sep-13	8270C	

Metals by ICPMS

Analyte	CAS Number	Result	Reporting Limit	Units	Analyzed	Method	Notes
Antimony	7440-36-0	**5**	2	mg/Kg	19-Sep-13	6020A	ISTD
Arsenic	7440-38-2	**23**	2	mg/Kg	19-Sep-13	6020A	Dup, ISTD
Beryllium	7440-41-7	BD	0.9	mg/Kg	16-Sep-13	6020A	ISTD
Cadmium	7440-43-9	**14**	2	mg/Kg	19-Sep-13	6020A	CCVa, Dup, ISTD
Chromium	7440-47-3	**39**	2	mg/Kg	19-Sep-13	6020A	Dup, ISTD
Copper	7440-50-8	**130**	2	mg/Kg	19-Sep-13	6020A	CCVa, ISTD
Lead	7439-92-1	**3300**	0.9	mg/Kg	16-Sep-13	6020A	Dup, LCS
Mercury	7439-97-6	BD	0.18	mg/Kg	16-Sep-13	6020A	
Nickel	7440-02-0	**22**	2	mg/Kg	19-Sep-13	6020A	CCVa, ISTD
Selenium	7782-49-2	BD	2	mg/Kg	19-Sep-13	6020A	ISTD
Silver	7440-22-4	BD	2	mg/Kg	19-Sep-13	6020A	ISTD, Spk
Thallium	7440-28-0	BD	0.9	mg/Kg	16-Sep-13	6020A	Spka
Zinc	7440-66-6	**2800**	5	mg/Kg	19-Sep-13	6020A	Dil, ISTD, LCSa

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Sovereign Consulting, Inc.	Project:	Frank Bean Road - Laconia, NH	
7 Hills Avenue	Project Number:	NH011	**Reported:**
Concord NH, 03301	Project Manager:	Mr. Mark Henderson	24-Sep-13 16:34

SB-103 @ 28'-30'
1309036-01 (Soil)

Sampled: 9-Sep-13

% Solids, dry weight

Analyte	CAS Number	Result	Reporting Limit	Units	Analyzed	Method	Notes
% Solids	NA	**79.5**	0.1	[blank]	13-Sep-13	% Calculation	

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Sovereign Consulting, Inc.	Project: Frank Bean Road - Laconia, NH	
7 Hills Avenue	Project Number: NH011	**Reported:**
Concord NH, 03301	Project Manager: Mr. Mark Henderson	24-Sep-13 16:34

SB-102 @ 4'-6'
1309036-02 (Soil)

Sampled: 9-Sep-13

Volatile Organic Compounds by EPA 8260B

Analyte	CAS Number	Result	Reporting Limit	Units	Analyzed	Notes
Acetone	67-64-1	BD	4.5	mg/Kg	16-Sep-13	
Benzene	71-43-2	BD	0.07	mg/Kg	16-Sep-13	
Bromobenzene	108-86-1	BD	0.18	mg/Kg	16-Sep-13	
Bromochloromethane	74-97-5	BD	0.18	mg/Kg	16-Sep-13	
Bromodichloromethane	75-27-4	BD	0.18	mg/Kg	16-Sep-13	
Bromoform	75-25-2	BD	0.18	mg/Kg	16-Sep-13	
Bromomethane	74-83-9	BD	0.18	mg/Kg	16-Sep-13	
Butylbenzene, n-	104-51-8	BD	0.18	mg/Kg	16-Sep-13	
Butylbenzene, sec-	135-98-8	BD	0.18	mg/Kg	16-Sep-13	
Butylbenzene, tert-	98-06-6	BD	0.18	mg/Kg	16-Sep-13	
Carbon disulfide	75-15-0	BD	0.72	mg/Kg	16-Sep-13	
Carbon Tetrachloride	56-23-5	BD	0.18	mg/Kg	16-Sep-13	
Chloroethane	75-00-3	BD	0.18	mg/Kg	16-Sep-13	
Chloromethane	74-87-3	BD	0.36	mg/Kg	16-Sep-13	
Chlorotoluene, 2	95-49-8	BD	0.18	mg/Kg	16-Sep-13	
Chlorotoluene, 4	106-43-4	BD	0.18	mg/Kg	16-Sep-13	
Dibromochloromethane	124-48-1	BD	0.18	mg/Kg	16-Sep-13	
Dibromochloropropane	96-12-8	BD	0.36	mg/Kg	16-Sep-13	
Dibromomethane	74-95-3	BD	0.18	mg/Kg	16-Sep-13	
Dichlorobenzene, 1,2-	95-50-1	BD	0.18	mg/Kg	16-Sep-13	
Dichlorobenzene, 1,3-	541-73-1	BD	0.18	mg/Kg	16-Sep-13	
Dichlorobenzene, 1,4-	106-46-7	BD	0.18	mg/Kg	16-Sep-13	
Dichlorodifluoromethane	75-71-8	BD	0.36	mg/Kg	16-Sep-13	
Dichloroethane, 1,1-	75-34-3	BD	0.18	mg/Kg	16-Sep-13	
Dichloroethane, 1,2-	107-06-2	BD	0.18	mg/Kg	16-Sep-13	
Dichloroethylene, 1,1-	75-35-4	BD	0.18	mg/Kg	16-Sep-13	
Dichloroethylene, cis-1,2-	156-59-2	BD	0.18	mg/Kg	16-Sep-13	
Dichloroethylene, trans-1,2-	156-60-5	BD	0.18	mg/Kg	16-Sep-13	
Dichloromethane	75-09-2	BD	0.36	mg/Kg	16-Sep-13	
Dichloropropane, 1,2-	78-87-5	BD	0.18	mg/Kg	16-Sep-13	
Dichloropropane, 1,3-	142-28-9	BD	0.18	mg/Kg	16-Sep-13	
Dichloropropane, 2,2-	594-20-7	BD	0.54	mg/Kg	16-Sep-13	
Dichloropropene, 1,1-	563-58-6	BD	0.18	mg/Kg	16-Sep-13	
Dichloropropene, cis-1,3-	10061-01-5	BD	0.18	mg/Kg	16-Sep-13	
Dichloropropene, trans-1,3-	10061-02-6	BD	0.18	mg/Kg	16-Sep-13	
Diethyl Ether	60-29-7	BD	4.5	mg/Kg	16-Sep-13	
Diisopropyl Ether	108-20-3	BD	0.18	mg/Kg	16-Sep-13	
Ethylbenzene	100-41-4	BD	0.18	mg/Kg	16-Sep-13	
Ethylene dibromide	106-93-4	BD	0.18	mg/Kg	16-Sep-13	
Ethyl tert-Butyl Ether	637-92-3	BD	0.18	mg/Kg	16-Sep-13	

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Sovereign Consulting, Inc.	Project: Frank Bean Road - Laconia, NH	
7 Hills Avenue	Project Number: NH011	**Reported:**
Concord NH, 03301	Project Manager: Mr. Mark Henderson	24-Sep-13 16:34

SB-102 @ 4'-6'
1309036-02 (Soil)

Sampled: 9-Sep-13

Volatile Organic Compounds by EPA 8260B

Analyte	CAS Number	Result	Reporting Limit	Units	Analyzed	Notes
Hexachlorobutadiene	87-68-3	BD	0.36	mg/Kg	16-Sep-13	
Isopropylbenzene	98-82-8	BD	0.18	mg/Kg	16-Sep-13	
Isopropyltoluene, p-	99-87-6	BD	0.18	mg/Kg	16-Sep-13	
Methyl Butyl Ketone (2-Hexanone)	591-78-6	BD	4.5	mg/Kg	16-Sep-13	
Methyl Ethyl Ketone (2-Butanone)	78-93-3	BD	4.5	mg/Kg	16-Sep-13	
Methyl Isobutyl Ketone	108-10-1	BD	4.5	mg/Kg	16-Sep-13	
Methyl-tert-Butyl Ether	1634-04-4	BD	0.07	mg/Kg	16-Sep-13	
Monochlorobenzene	108-90-7	BD	0.18	mg/Kg	16-Sep-13	
Naphthalene	91-20-3	BD	0.36	mg/Kg	16-Sep-13	
n-Propylbenzene	103-65-1	BD	0.18	mg/Kg	16-Sep-13	
Styrene	100-42-5	BD	0.18	mg/Kg	16-Sep-13	
tert-Amyl Methyl Ether	994-05-8	BD	0.36	mg/Kg	16-Sep-13	
tert-Butyl alcohol	75-65-0	BD	1.8	mg/Kg	16-Sep-13	
Tetrachloroethane, 1,1,1,2-	630-20-6	BD	0.18	mg/Kg	16-Sep-13	
Tetrachloroethane, 1,1,2,2-	79-34-5	BD	0.18	mg/Kg	16-Sep-13	
Tetrachloroethylene	127-18-4	**10**	0.18	mg/Kg	16-Sep-13	
Tetrahydrofuran	109-99-9	BD	4.5	mg/Kg	16-Sep-13	
Toluene	108-88-3	BD	0.18	mg/Kg	16-Sep-13	
Trichlorobenzene, 1,2,3-	87-61-6	BD	0.36	mg/Kg	16-Sep-13	
Trichlorobenzene, 1,2,4-	120-82-1	BD	0.36	mg/Kg	16-Sep-13	
Trichlorobenzene, 1,3,5-	108-70-3	BD	0.36	mg/Kg	16-Sep-13	
Trichloroethane, 1,1,1-	71-55-6	BD	0.18	mg/Kg	16-Sep-13	
Trichloroethane, 1,1,2-	79-00-5	BD	0.18	mg/Kg	16-Sep-13	
Trichloroethylene	79-01-6	**0.63**	0.07	mg/Kg	16-Sep-13	
Trichloro 1,1,2-, trifluoro 1,2,2-, ethane	76-13-1	BD	0.36	mg/Kg	16-Sep-13	
Trichlorofluoromethane	75-69-4	BD	0.36	mg/Kg	16-Sep-13	
Trichloromethane	67-66-3	BD	0.18	mg/Kg	16-Sep-13	
Trichloropropane, 1,2,3-	96-18-4	BD	0.18	mg/Kg	16-Sep-13	
Trimethylbenzene, 1,2,4-	95-63-6	BD	0.18	mg/Kg	16-Sep-13	
Trimethylbenzene, 1,3,5-	108-67-8	BD	0.18	mg/Kg	16-Sep-13	
Vinyl chloride	75-01-4	BD	0.72	mg/Kg	16-Sep-13	
Xylenes, m & p-	108-38-3,106-42-3	BD	0.36	mg/Kg	16-Sep-13	
Xylenes, o-	95-47-6	BD	0.18	mg/Kg	16-Sep-13	

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Sovereign Consulting, Inc.	Project: Frank Bean Road - Laconia, NH	
7 Hills Avenue	Project Number: NH011	**Reported:**
Concord NH, 03301	Project Manager: Mr. Mark Henderson	24-Sep-13 16:34

SB-102 @ 4'-6'
1309036-02 (Soil)

Sampled: 9-Sep-13

Polycyclic Aromatic Hydrocarbons

Analyte	CAS Number	Result	Reporting Limit	Units	Analyzed	Method	Notes
Acenaphthene	83-32-9	BD	0.80	mg/Kg	23-Sep-13	8270C	Surrc
Acenaphthylene	208-96-8	BD	0.80	mg/Kg	23-Sep-13	8270C	Surra
Anthracene	120-12-7	BD	0.80	mg/Kg	23-Sep-13	8270C	Surrc
Benzo(a)anthracene	56-55-3	**1.2**	0.20	mg/Kg	23-Sep-13	8270C	Surrd
Benzo(a)pyrene	50-32-8	**1.8**	0.40	mg/Kg	23-Sep-13	8270C	Surrd
Benzo(b)fluoranthene	205-99-2	**2.4**	0.20	mg/Kg	23-Sep-13	8270C	Surrd
Benzo(g,h,i)perylene	191-24-2	BD	0.80	mg/Kg	23-Sep-13	8270C	CCV, Surrd
Benzo(k)fluoranthene	207-08-9	**0.80**	0.80	mg/Kg	23-Sep-13	8270C	Surrd
Chrysene	218-01-9	**1.3**	0.80	mg/Kg	23-Sep-13	8270C	Surrd
Dibenz (a,h) anthracene	53-70-3	**0.26**	0.20	mg/Kg	23-Sep-13	8270C	CCV, Surrd
Fluoranthene	206-44-0	**2.9**	0.80	mg/Kg	23-Sep-13	8270C	Surrc
Fluorene	86-73-7	BD	0.80	mg/Kg	23-Sep-13	8270C	Surrc
Indeno(1,2,3-cd)pyrene	193-39-5	**0.80**	0.20	mg/Kg	23-Sep-13	8270C	CCV, Surrd
Methylnaphthalene, 1-	90-12-0	BD	0.80	mg/Kg	23-Sep-13	8270C	Surra
Methylnaphthalene, 2-	91-57-6	BD	0.80	mg/Kg	23-Sep-13	8270C	Surra
Naphthalene	91-20-3	BD	0.80	mg/Kg	23-Sep-13	8270C	Surra
Phenanthrene	85-01-8	**1.6**	0.80	mg/Kg	23-Sep-13	8270C	Surrc
Pyrene	129-00-0	**2.4**	0.80	mg/Kg	23-Sep-13	8270C	Surrc

Metals by ICPMS

Analyte	CAS Number	Result	Reporting Limit	Units	Analyzed	Method	Notes
Antimony	7440-36-0	**17**	0.9	mg/Kg	16-Sep-13	6020A	
Arsenic	7440-38-2	**36**	0.9	mg/Kg	16-Sep-13	6020A	
Beryllium	7440-41-7	BD	0.9	mg/Kg	16-Sep-13	6020A	ISTD
Cadmium	7440-43-9	**15**	0.9	mg/Kg	16-Sep-13	6020A	
Chromium	7440-47-3	**250**	0.9	mg/Kg	16-Sep-13	6020A	
Copper	7440-50-8	**1400**	0.9	mg/Kg	16-Sep-13	6020A	
Lead	7439-92-1	**2600**	0.9	mg/Kg	16-Sep-13	6020A	LCS
Mercury	7439-97-6	**3.8**	0.18	mg/Kg	16-Sep-13	6020A	
Nickel	7440-02-0	**230**	0.9	mg/Kg	16-Sep-13	6020A	
Selenium	7782-49-2	**2**	0.9	mg/Kg	16-Sep-13	6020A	
Silver	7440-22-4	**5**	0.9	mg/Kg	16-Sep-13	6020A	
Thallium	7440-28-0	BD	0.9	mg/Kg	16-Sep-13	6020A	
Zinc	7440-66-6	**2200**	3	mg/Kg	16-Sep-13	6020A	

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Sovereign Consulting, Inc.	Project:	Frank Bean Road - Laconia, NH	
7 Hills Avenue	Project Number:	NH011	**Reported:**
Concord NH, 03301	Project Manager:	Mr. Mark Henderson	24-Sep-13 16:34

SB-102 @ 4'-6'
1309036-02 (Soil)

Sampled: 9-Sep-13

% Solids, dry weight

Analyte	CAS Number	Result	Reporting Limit	Units	Analyzed	Method	Notes
% Solids	NA	**83.7**	0.1	[blank]	13-Sep-13	% Calculation	

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Sovereign Consulting, Inc.	Project: Frank Bean Road - Laconia, NH	
7 Hills Avenue	Project Number: NH011	**Reported:**
Concord NH, 03301	Project Manager: Mr. Mark Henderson	24-Sep-13 16:34

SB-101 @ 4'-6'
1309036-03 (Soil)

Sampled: 9-Sep-13

Volatile Organic Compounds by EPA 8260B

Analyte	CAS Number	Result	Reporting Limit	Units	Analyzed	Notes
Acetone	67-64-1	BD	2.0	mg/Kg	16-Sep-13	
Benzene	71-43-2	BD	0.03	mg/Kg	16-Sep-13	
Bromobenzene	108-86-1	BD	0.08	mg/Kg	16-Sep-13	
Bromochloromethane	74-97-5	BD	0.08	mg/Kg	16-Sep-13	
Bromodichloromethane	75-27-4	BD	0.08	mg/Kg	16-Sep-13	
Bromoform	75-25-2	BD	0.08	mg/Kg	16-Sep-13	
Bromomethane	74-83-9	BD	0.08	mg/Kg	16-Sep-13	
Butylbenzene, n-	104-51-8	BD	0.08	mg/Kg	16-Sep-13	
Butylbenzene, sec-	135-98-8	BD	0.08	mg/Kg	16-Sep-13	
Butylbenzene, tert-	98-06-6	BD	0.08	mg/Kg	16-Sep-13	
Carbon disulfide	75-15-0	BD	0.31	mg/Kg	16-Sep-13	
Carbon Tetrachloride	56-23-5	BD	0.08	mg/Kg	16-Sep-13	
Chloroethane	75-00-3	BD	0.08	mg/Kg	16-Sep-13	
Chloromethane	74-87-3	BD	0.16	mg/Kg	16-Sep-13	
Chlorotoluene, 2	95-49-8	BD	0.08	mg/Kg	16-Sep-13	
Chlorotoluene, 4	106-43-4	BD	0.08	mg/Kg	16-Sep-13	
Dibromochloromethane	124-48-1	BD	0.08	mg/Kg	16-Sep-13	
Dibromochloropropane	96-12-8	BD	0.16	mg/Kg	16-Sep-13	
Dibromomethane	74-95-3	BD	0.08	mg/Kg	16-Sep-13	
Dichlorobenzene, 1,2-	95-50-1	BD	0.08	mg/Kg	16-Sep-13	
Dichlorobenzene, 1,3-	541-73-1	BD	0.08	mg/Kg	16-Sep-13	
Dichlorobenzene, 1,4-	106-46-7	BD	0.08	mg/Kg	16-Sep-13	
Dichlorodifluoromethane	75-71-8	BD	0.16	mg/Kg	16-Sep-13	
Dichloroethane, 1,1-	75-34-3	BD	0.08	mg/Kg	16-Sep-13	
Dichloroethane, 1,2-	107-06-2	BD	0.08	mg/Kg	16-Sep-13	
Dichloroethylene, 1,1-	75-35-4	BD	0.08	mg/Kg	16-Sep-13	
Dichloroethylene, cis-1,2-	156-59-2	BD	0.08	mg/Kg	16-Sep-13	
Dichloroethylene, trans-1,2-	156-60-5	BD	0.08	mg/Kg	16-Sep-13	
Dichloromethane	75-09-2	BD	0.16	mg/Kg	16-Sep-13	
Dichloropropane, 1,2-	78-87-5	BD	0.08	mg/Kg	16-Sep-13	
Dichloropropane, 1,3-	142-28-9	BD	0.08	mg/Kg	16-Sep-13	
Dichloropropane, 2,2-	594-20-7	BD	0.24	mg/Kg	16-Sep-13	
Dichloropropene, 1,1-	563-58-6	BD	0.08	mg/Kg	16-Sep-13	
Dichloropropene, cis-1,3-	10061-01-5	BD	0.08	mg/Kg	16-Sep-13	
Dichloropropene, trans-1,3-	10061-02-6	BD	0.08	mg/Kg	16-Sep-13	
Diethyl Ether	60-29-7	BD	2.0	mg/Kg	16-Sep-13	
Diisopropyl Ether	108-20-3	BD	0.08	mg/Kg	16-Sep-13	
Ethylbenzene	100-41-4	BD	0.08	mg/Kg	16-Sep-13	
Ethylene dibromide	106-93-4	BD	0.08	mg/Kg	16-Sep-13	
Ethyl tert-Butyl Ether	637-92-3	BD	0.08	mg/Kg	16-Sep-13	

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Sovereign Consulting, Inc.	Project: Frank Bean Road - Laconia, NH	
7 Hills Avenue	Project Number: NH011	**Reported:**
Concord NH, 03301	Project Manager: Mr. Mark Henderson	24-Sep-13 16:34

SB-101 @ 4'-6'
1309036-03 (Soil)

Sampled: 9-Sep-13

Volatile Organic Compounds by EPA 8260B

Analyte	CAS Number	Result	Reporting Limit	Units	Analyzed	Notes
Hexachlorobutadiene	87-68-3	BD	0.16	mg/Kg	16-Sep-13	
Isopropylbenzene	98-82-8	BD	0.08	mg/Kg	16-Sep-13	
Isopropyltoluene, p-	99-87-6	BD	0.08	mg/Kg	16-Sep-13	
Methyl Butyl Ketone (2-Hexanone)	591-78-6	BD	2.0	mg/Kg	16-Sep-13	
Methyl Ethyl Ketone (2-Butanone)	78-93-3	BD	2.0	mg/Kg	16-Sep-13	
Methyl Isobutyl Ketone	108-10-1	BD	2.0	mg/Kg	16-Sep-13	
Methyl-tert-Butyl Ether	1634-04-4	BD	0.03	mg/Kg	16-Sep-13	
Monochlorobenzene	108-90-7	BD	0.08	mg/Kg	16-Sep-13	
Naphthalene	91-20-3	BD	0.16	mg/Kg	16-Sep-13	
n-Propylbenzene	103-65-1	BD	0.08	mg/Kg	16-Sep-13	
Styrene	100-42-5	BD	0.08	mg/Kg	16-Sep-13	
tert-Amyl Methyl Ether	994-05-8	BD	0.16	mg/Kg	16-Sep-13	
tert-Butyl alcohol	75-65-0	BD	0.79	mg/Kg	16-Sep-13	
Tetrachloroethane, 1,1,1,2-	630-20-6	BD	0.08	mg/Kg	16-Sep-13	
Tetrachloroethane, 1,1,2,2-	79-34-5	BD	0.08	mg/Kg	16-Sep-13	
Tetrachloroethylene	127-18-4	**0.53**	0.08	mg/Kg	16-Sep-13	
Tetrahydrofuran	109-99-9	BD	2.0	mg/Kg	16-Sep-13	
Toluene	108-88-3	BD	0.08	mg/Kg	16-Sep-13	
Trichlorobenzene, 1,2,3-	87-61-6	BD	0.16	mg/Kg	16-Sep-13	
Trichlorobenzene, 1,2,4-	120-82-1	BD	0.16	mg/Kg	16-Sep-13	
Trichlorobenzene, 1,3,5-	108-70-3	BD	0.16	mg/Kg	16-Sep-13	
Trichloroethane, 1,1,1-	71-55-6	BD	0.08	mg/Kg	16-Sep-13	
Trichloroethane, 1,1,2-	79-00-5	BD	0.08	mg/Kg	16-Sep-13	
Trichloroethylene	79-01-6	**0.95**	0.03	mg/Kg	16-Sep-13	
Trichloro 1,1,2-, trifluoro 1,2,2-, ethane	76-13-1	BD	0.16	mg/Kg	16-Sep-13	
Trichlorofluoromethane	75-69-4	BD	0.16	mg/Kg	16-Sep-13	
Trichloromethane	67-66-3	BD	0.08	mg/Kg	16-Sep-13	
Trichloropropane, 1,2,3-	96-18-4	BD	0.08	mg/Kg	16-Sep-13	
Trimethylbenzene, 1,2,4-	95-63-6	BD	0.08	mg/Kg	16-Sep-13	
Trimethylbenzene, 1,3,5-	108-67-8	BD	0.08	mg/Kg	16-Sep-13	
Vinyl chloride	75-01-4	BD	0.31	mg/Kg	16-Sep-13	
Xylenes, m & p-	108-38-3,106-42-3	BD	0.16	mg/Kg	16-Sep-13	
Xylenes, o-	95-47-6	BD	0.08	mg/Kg	16-Sep-13	

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Sovereign Consulting, Inc.	Project: Frank Bean Road - Laconia, NH	
7 Hills Avenue	Project Number: NH011	**Reported:**
Concord NH, 03301	Project Manager: Mr. Mark Henderson	24-Sep-13 16:34

SB-101 @ 4'-6'
1309036-03 (Soil)

Sampled: 9-Sep-13

Polycyclic Aromatic Hydrocarbons

Analyte	CAS Number	Result	Reporting Limit	Units	Analyzed	Method	Notes
Acenaphthene	83-32-9	BD	0.40	mg/Kg	23-Sep-13	8270C	Surrb
Acenaphthylene	208-96-8	BD	0.40	mg/Kg	23-Sep-13	8270C	Surr
Anthracene	120-12-7	BD	0.40	mg/Kg	23-Sep-13	8270C	Surrb
Benzo(a)anthracene	56-55-3	**0.88**	0.10	mg/Kg	23-Sep-13	8270C	Surre
Benzo(a)pyrene	50-32-8	**0.81**	0.20	mg/Kg	23-Sep-13	8270C	Surre
Benzo(b)fluoranthene	205-99-2	**1.3**	0.10	mg/Kg	23-Sep-13	8270C	Surre
Benzo(g,h,i)perylene	191-24-2	BD	0.40	mg/Kg	23-Sep-13	8270C	CCV, Surre
Benzo(k)fluoranthene	207-08-9	**0.57**	0.40	mg/Kg	23-Sep-13	8270C	Surre
Chrysene	218-01-9	**0.97**	0.40	mg/Kg	23-Sep-13	8270C	Surre
Dibenz (a,h) anthracene	53-70-3	**0.11**	0.10	mg/Kg	23-Sep-13	8270C	CCV, Surre
Fluoranthene	206-44-0	**2.1**	0.40	mg/Kg	23-Sep-13	8270C	Surrb
Fluorene	86-73-7	BD	0.40	mg/Kg	23-Sep-13	8270C	Surrb
Indeno(1,2,3-cd)pyrene	193-39-5	**0.28**	0.10	mg/Kg	23-Sep-13	8270C	CCV, Surre
Methylnaphthalene, 1-	90-12-0	BD	0.40	mg/Kg	23-Sep-13	8270C	Surr
Methylnaphthalene, 2-	91-57-6	BD	0.40	mg/Kg	23-Sep-13	8270C	Surr
Naphthalene	91-20-3	BD	0.40	mg/Kg	23-Sep-13	8270C	Surr
Phenanthrene	85-01-8	**1.5**	0.40	mg/Kg	23-Sep-13	8270C	Surrb
Pyrene	129-00-0	**1.7**	0.40	mg/Kg	23-Sep-13	8270C	Surrb

Metals by ICPMS

Analyte	CAS Number	Result	Reporting Limit	Units	Analyzed	Method	Notes
Antimony	7440-36-0	**52**	0.8	mg/Kg	16-Sep-13	6020A	
Arsenic	7440-38-2	**68**	0.8	mg/Kg	16-Sep-13	6020A	
Beryllium	7440-41-7	BD	0.8	mg/Kg	16-Sep-13	6020A	ISTD
Cadmium	7440-43-9	**12**	0.8	mg/Kg	16-Sep-13	6020A	
Chromium	7440-47-3	**67**	0.8	mg/Kg	16-Sep-13	6020A	
Copper	7440-50-8	**380**	0.8	mg/Kg	16-Sep-13	6020A	
Lead	7439-92-1	**1300**	0.8	mg/Kg	16-Sep-13	6020A	LCS
Mercury	7439-97-6	**0.80**	0.15	mg/Kg	16-Sep-13	6020A	
Nickel	7440-02-0	**120**	0.8	mg/Kg	16-Sep-13	6020A	
Selenium	7782-49-2	**1**	0.8	mg/Kg	16-Sep-13	6020A	
Silver	7440-22-4	**2**	0.8	mg/Kg	16-Sep-13	6020A	
Thallium	7440-28-0	BD	0.8	mg/Kg	16-Sep-13	6020A	
Zinc	7440-66-6	**1600**	2	mg/Kg	16-Sep-13	6020A	

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Sovereign Consulting, Inc.	Project: Frank Bean Road - Laconia, NH	
7 Hills Avenue	Project Number: NH011	**Reported:**
Concord NH, 03301	Project Manager: Mr. Mark Henderson	24-Sep-13 16:34

SB-101 @ 4'-6'
1309036-03 (Soil)

Sampled: 9-Sep-13

% Solids, dry weight

Analyte	CAS Number	Result	Reporting Limit	Units	Analyzed	Method	Notes
% Solids	NA	**87.7**	0.1	[blank]	13-Sep-13	% Calculation	

Notes and Definitions

Surre	Surrogate recovery exceeds method specified limit:p-terphenyl-d14 26%
Surrd	Surrogate recovery exceeds method specified limit:p-terphenyl-d14 25%
Surrc	Surrogate recovery exceeds method specified limit:nitrobenzene-d5 14%
Surrb	Surrogate recovery exceeds method specified limit:nitrobenzene-d5 10%
Surra	Surrogate recovery exceeds method specified limit:2-fluorobiphenyl 27%
Surr	Surrogate recovery exceeds method specified limit:2-fluorobiphenyl 17%
Spka	Spike sample exceeds limits Tl 124%.
Spk	Spike sample exceeds limits Ag 121%.
LCSa	Laboratory Control Sample exceeds limits Zn 220%.
LCS	Laboratory Control Sample exceeds limits Pb 127%.
ISTD	Internal standard exceeds limits.
Dup	Duplicate sample exceeds limits.
Dil	Serial dilution exceeds limits.
CCVa	Calibration Check exceeds limits Ni 111%, Cu 111%, Cd 113%.
CCV	Calibration Check exceeds limits benzo(g,h,i)perylene 57%, dibenz(a,h)anthracene 66%, indeno(1,2,3-cd)pyrene 64%

BD	Analyte result below the laboratory reporting limit
NR	Not Reported

Soil sample results reported on a dry weight basis.

The reporting limit is the lowest level at which reliable quantitation has been demonstrated.

Analytes in **bold** are values reported above the reporting limit.

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Aquarian Analytical, Inc.

Laboratory Services

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E-Mail: aquarianlab@comcast.net

Turnaround Requirements (check one)

- **RUSH SAMPLES NEED PRIOR APPROVAL**
- ____ Same Day Turnaround (150% upcharge)
- ____ One Day Turnaround (100% upcharge)
- ____ Two Day Turnaround (50% upcharge)
- ____ Three Day Turnaround (25% upcharge)
- X Normal turnaround

Project Information

Project #: NH011
Project Name: FRANK BEAN RD
Town/Site: LACONIA, NH
Sampler: Dylan Bush
Company: SOVEREIGN
BID Reference:

Project Manager: MARK HENDERSON
Report to: PM
Invoice to: PM
Phone: 603-856-8644
E-Mail: mhenderson@sovcon.com

Sample Information / **VOC's-SVOC's** / **TPH** / **Metals** / **TCLP** / **Other (list)**

NELAC Qc Y ___ N ___

AAI Work Order #	Sample ID	Sample Collection Time 9-9-2013	Sample Matrix	Number of Containers	EPA 8260 w/ oxygenates	BTEX / MTBE	BTEX+MTBE+Naphthalene	Chlorinated only	EPA 524.2 Drinking Water	EDB	1,4 Dioxane	EPA 8270 A-B/N	EPA 8270 PAH	EPA 8015M Gasoline	EPA 8100M Fuel Oil -	Fingerprint	RCRA 8	Field Filtered:	Lab Filtered:	Total: 13 RP metals	Zero Headspace Extraction (ZHE)	TCLP Pesticides	TCLP Herbicides	TCLP Metals	PCB	EPA SW846-7 Reactivity	EPA 1010 Flashpoint / Ignitab	EPA 150.1 / 9045 pH	Alkalinity	Nitrate	Sulfate	Chloride
1309036-01	SB-103@28'-30'	16:40	S	2	X								X							X												
-02	SB-102@4'-6'	16:45	↓	↓	X								X							X												
-03	SB-101@4'-6'	16:50	↓	↓	X								X							X												

Relinquished by: Dylan Bush	Date: 9.9.13 Time: 17:50	Received by: SOVEREIGN REFRIGERATOR
Relinquished by: Refridgerator	Date: 9-12-13 Time: 830	Received by: [signature]
Relinquished by:	Date: Time:	Received by:

Notes: Pricing per quote 1st set of multiple soil samples

Temperature 4 °C

Is this N.H. "ODD Fund" related? Y ____ N ✓

Aquarian Analytical will subcontract those tests we do not perform with your prior approval

Please keep samples on ice from the time of collection

Aquarian Analytical, Inc.
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24 September 2013

Mr. Mark Henderson
Sovereign Consulting, Inc.
7 Hills Avenue
Concord, NH 03301

RE: Frank Bean Road - Laconia, NH

Dear Mr. Henderson:

Enclosed are the results of analyses for the following samples, which were received at 4 c.

Laboratory ID	Sample ID	Sample matrix	Date sampled	Date received
1309037-01	**SB-104/MW @ 20'-22'**	Soil	10-Sep-13 16:18	12-Sep-13 08:30
1309037-02	**SB-105/MW @ 20'-22'**	Soil	10-Sep-13 16:50	12-Sep-13 08:30

The results in this report relate only to the submitted samples. Please refer to our website listed above for a list of accredited parameters. If you have any questions concerning this report, please feel free to contact me.

Alan G. Naber
Laboratory Director

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Sovereign Consulting, Inc.	Project: Frank Bean Road - Laconia, NH	
7 Hills Avenue	Project Number: NH011	**Reported:**
Concord NH, 03301	Project Manager: Mr. Mark Henderson	24-Sep-13 16:35

SB-104/MW @ 20'-22'
1309037-01 (Soil)

Sampled: 10-Sep-13

Volatile Organic Compounds by EPA 8260B

Analyte	CAS Number	Result	Reporting Limit	Units	Analyzed	Notes
Acetone	67-64-1	BD	1.9	mg/Kg	16-Sep-13	
Benzene	71-43-2	BD	0.03	mg/Kg	16-Sep-13	
Bromobenzene	108-86-1	BD	0.08	mg/Kg	16-Sep-13	
Bromochloromethane	74-97-5	BD	0.08	mg/Kg	16-Sep-13	
Bromodichloromethane	75-27-4	BD	0.08	mg/Kg	16-Sep-13	
Bromoform	75-25-2	BD	0.08	mg/Kg	16-Sep-13	
Bromomethane	74-83-9	BD	0.08	mg/Kg	16-Sep-13	
Butylbenzene, n-	104-51-8	BD	0.08	mg/Kg	16-Sep-13	
Butylbenzene, sec-	135-98-8	BD	0.08	mg/Kg	16-Sep-13	
Butylbenzene, tert-	98-06-6	BD	0.08	mg/Kg	16-Sep-13	
Carbon disulfide	75-15-0	BD	0.31	mg/Kg	16-Sep-13	
Carbon Tetrachloride	56-23-5	BD	0.08	mg/Kg	16-Sep-13	
Chloroethane	75-00-3	BD	0.08	mg/Kg	16-Sep-13	
Chloromethane	74-87-3	BD	0.15	mg/Kg	16-Sep-13	
Chlorotoluene, 2	95-49-8	BD	0.08	mg/Kg	16-Sep-13	
Chlorotoluene, 4	106-43-4	BD	0.08	mg/Kg	16-Sep-13	
Dibromochloromethane	124-48-1	BD	0.08	mg/Kg	16-Sep-13	
Dibromochloropropane	96-12-8	BD	0.15	mg/Kg	16-Sep-13	
Dibromomethane	74-95-3	BD	0.08	mg/Kg	16-Sep-13	
Dichlorobenzene, 1,2-	95-50-1	BD	0.08	mg/Kg	16-Sep-13	
Dichlorobenzene, 1,3-	541-73-1	BD	0.08	mg/Kg	16-Sep-13	
Dichlorobenzene, 1,4-	106-46-7	BD	0.08	mg/Kg	16-Sep-13	
Dichlorodifluoromethane	75-71-8	BD	0.15	mg/Kg	16-Sep-13	
Dichloroethane, 1,1-	75-34-3	BD	0.08	mg/Kg	16-Sep-13	
Dichloroethane, 1,2-	107-06-2	BD	0.08	mg/Kg	16-Sep-13	
Dichloroethylene, 1,1-	75-35-4	BD	0.08	mg/Kg	16-Sep-13	
Dichloroethylene, cis-1,2-	156-59-2	BD	0.08	mg/Kg	16-Sep-13	
Dichloroethylene, trans-1,2-	156-60-5	BD	0.08	mg/Kg	16-Sep-13	
Dichloromethane	75-09-2	BD	0.15	mg/Kg	16-Sep-13	
Dichloropropane, 1,2-	78-87-5	BD	0.08	mg/Kg	16-Sep-13	
Dichloropropane, 1,3-	142-28-9	BD	0.08	mg/Kg	16-Sep-13	
Dichloropropane, 2,2-	594-20-7	BD	0.23	mg/Kg	16-Sep-13	
Dichloropropene, 1,1-	563-58-6	BD	0.08	mg/Kg	16-Sep-13	
Dichloropropene, cis-1,3-	10061-01-5	BD	0.08	mg/Kg	16-Sep-13	
Dichloropropene, trans-1,3-	10061-02-6	BD	0.08	mg/Kg	16-Sep-13	
Diethyl Ether	60-29-7	BD	1.9	mg/Kg	16-Sep-13	
Diisopropyl Ether	108-20-3	BD	0.08	mg/Kg	16-Sep-13	
Ethylbenzene	100-41-4	BD	0.08	mg/Kg	16-Sep-13	
Ethylene dibromide	106-93-4	BD	0.08	mg/Kg	16-Sep-13	
Ethyl tert-Butyl Ether	637-92-3	BD	0.08	mg/Kg	16-Sep-13	

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Sovereign Consulting, Inc.	Project: Frank Bean Road - Laconia, NH	
7 Hills Avenue	Project Number: NH011	**Reported:**
Concord NH, 03301	Project Manager: Mr. Mark Henderson	24-Sep-13 16:35

SB-104/MW @ 20'-22'
1309037-01 (Soil)

Sampled: 10-Sep-13

Volatile Organic Compounds by EPA 8260B

Analyte	CAS Number	Result	Reporting Limit	Units	Analyzed	Notes
Hexachlorobutadiene	87-68-3	BD	0.15	mg/Kg	16-Sep-13	
Isopropylbenzene	98-82-8	BD	0.08	mg/Kg	16-Sep-13	
Isopropyltoluene, p-	99-87-6	BD	0.08	mg/Kg	16-Sep-13	
Methyl Butyl Ketone (2-Hexanone)	591-78-6	BD	1.9	mg/Kg	16-Sep-13	
Methyl Ethyl Ketone (2-Butanone)	78-93-3	BD	1.9	mg/Kg	16-Sep-13	
Methyl Isobutyl Ketone	108-10-1	BD	1.9	mg/Kg	16-Sep-13	
Methyl-tert-Butyl Ether	1634-04-4	BD	0.03	mg/Kg	16-Sep-13	
Monochlorobenzene	108-90-7	BD	0.08	mg/Kg	16-Sep-13	
Naphthalene	91-20-3	BD	0.15	mg/Kg	16-Sep-13	
n-Propylbenzene	103-65-1	BD	0.08	mg/Kg	16-Sep-13	
Styrene	100-42-5	BD	0.08	mg/Kg	16-Sep-13	
tert-Amyl Methyl Ether	994-05-8	BD	0.15	mg/Kg	16-Sep-13	
tert-Butyl alcohol	75-65-0	BD	0.77	mg/Kg	16-Sep-13	
Tetrachloroethane, 1,1,1,2-	630-20-6	BD	0.08	mg/Kg	16-Sep-13	
Tetrachloroethane, 1,1,2,2-	79-34-5	BD	0.08	mg/Kg	16-Sep-13	
Tetrachloroethylene	127-18-4	BD	0.08	mg/Kg	16-Sep-13	
Tetrahydrofuran	109-99-9	BD	1.9	mg/Kg	16-Sep-13	
Toluene	108-88-3	BD	0.08	mg/Kg	16-Sep-13	
Trichlorobenzene, 1,2,3-	87-61-6	BD	0.15	mg/Kg	16-Sep-13	
Trichlorobenzene, 1,2,4-	120-82-1	BD	0.15	mg/Kg	16-Sep-13	
Trichlorobenzene, 1,3,5-	108-70-3	BD	0.15	mg/Kg	16-Sep-13	
Trichloroethane, 1,1,1-	71-55-6	BD	0.08	mg/Kg	16-Sep-13	
Trichloroethane, 1,1,2-	79-00-5	BD	0.08	mg/Kg	16-Sep-13	
Trichloroethylene	79-01-6	BD	0.03	mg/Kg	16-Sep-13	
Trichloro 1,1,2-, trifluoro 1,2,2-, ethane	76-13-1	BD	0.15	mg/Kg	16-Sep-13	
Trichlorofluoromethane	75-69-4	BD	0.15	mg/Kg	16-Sep-13	
Trichloromethane	67-66-3	BD	0.08	mg/Kg	16-Sep-13	
Trichloropropane, 1,2,3-	96-18-4	BD	0.08	mg/Kg	16-Sep-13	
Trimethylbenzene, 1,2,4-	95-63-6	BD	0.08	mg/Kg	16-Sep-13	
Trimethylbenzene, 1,3,5-	108-67-8	BD	0.08	mg/Kg	16-Sep-13	
Vinyl chloride	75-01-4	BD	0.31	mg/Kg	16-Sep-13	
Xylenes, m & p-	108-38-3,106-42-3	BD	0.15	mg/Kg	16-Sep-13	
Xylenes, o-	95-47-6	BD	0.08	mg/Kg	16-Sep-13	

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7 Hills Avenue	Project Number: NH011	**Reported:**
Concord NH, 03301	Project Manager: Mr. Mark Henderson	24-Sep-13 16:35

SB-104/MW @ 20'-22'
1309037-01 (Soil)

Sampled: 10-Sep-13

Polycyclic Aromatic Hydrocarbons

Analyte	CAS Number	Result	Reporting Limit	Units	Analyzed	Method	Notes
Acenaphthene	83-32-9	BD	0.40	mg/Kg	23-Sep-13	8270C	Surra
Acenaphthylene	208-96-8	BD	0.40	mg/Kg	23-Sep-13	8270C	
Anthracene	120-12-7	BD	0.40	mg/Kg	23-Sep-13	8270C	Surra
Benzo(a)anthracene	56-55-3	BD	0.10	mg/Kg	23-Sep-13	8270C	
Benzo(a)pyrene	50-32-8	BD	0.20	mg/Kg	23-Sep-13	8270C	
Benzo(b)fluoranthene	205-99-2	BD	0.10	mg/Kg	23-Sep-13	8270C	
Benzo(g,h,i)perylene	191-24-2	BD	0.40	mg/Kg	23-Sep-13	8270C	CCV
Benzo(k)fluoranthene	207-08-9	BD	0.40	mg/Kg	23-Sep-13	8270C	
Chrysene	218-01-9	BD	0.40	mg/Kg	23-Sep-13	8270C	
Dibenz (a,h) anthracene	53-70-3	BD	0.10	mg/Kg	23-Sep-13	8270C	CCV
Fluoranthene	206-44-0	BD	0.40	mg/Kg	23-Sep-13	8270C	Surra
Fluorene	86-73-7	BD	0.40	mg/Kg	23-Sep-13	8270C	Surra
Indeno(1,2,3-cd)pyrene	193-39-5	BD	0.10	mg/Kg	23-Sep-13	8270C	CCV
Methylnaphthalene, 1-	90-12-0	BD	0.40	mg/Kg	23-Sep-13	8270C	
Methylnaphthalene, 2-	91-57-6	BD	0.40	mg/Kg	23-Sep-13	8270C	
Naphthalene	91-20-3	BD	0.40	mg/Kg	23-Sep-13	8270C	
Phenanthrene	85-01-8	BD	0.40	mg/Kg	23-Sep-13	8270C	Surra
Pyrene	129-00-0	BD	0.40	mg/Kg	23-Sep-13	8270C	Surra

Metals by ICPMS

Analyte	CAS Number	Result	Reporting Limit	Units	Analyzed	Method	Notes
Antimony	7440-36-0	**1**	1	mg/Kg	16-Sep-13	6020A	
Arsenic	7440-38-2	**5**	1	mg/Kg	16-Sep-13	6020A	
Beryllium	7440-41-7	BD	1	mg/Kg	16-Sep-13	6020A	ISTD
Cadmium	7440-43-9	BD	1	mg/Kg	16-Sep-13	6020A	
Chromium	7440-47-3	**4**	1	mg/Kg	16-Sep-13	6020A	
Copper	7440-50-8	**6**	1	mg/Kg	16-Sep-13	6020A	
Lead	7439-92-1	**6**	1	mg/Kg	16-Sep-13	6020A	LCS
Mercury	7439-97-6	BD	0.19	mg/Kg	16-Sep-13	6020A	
Nickel	7440-02-0	**3**	1	mg/Kg	16-Sep-13	6020A	
Selenium	7782-49-2	BD	1	mg/Kg	16-Sep-13	6020A	
Silver	7440-22-4	BD	1	mg/Kg	16-Sep-13	6020A	
Thallium	7440-28-0	BD	1	mg/Kg	16-Sep-13	6020A	
Zinc	7440-66-6	**26**	3	mg/Kg	16-Sep-13	6020A	

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Sovereign Consulting, Inc.	Project:	Frank Bean Road - Laconia, NH	
7 Hills Avenue	Project Number:	NH011	**Reported:**
Concord NH, 03301	Project Manager:	Mr. Mark Henderson	24-Sep-13 16:35

SB-104/MW @ 20'-22'
1309037-01 (Soil)

Sampled: 10-Sep-13

% Solids, dry weight

Analyte	CAS Number	Result	Reporting Limit	Units	Analyzed	Method	Notes
% Solids	NA	**76.2**	0.1	[blank]	13-Sep-13	% Calculation	

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Sovereign Consulting, Inc.	Project: Frank Bean Road - Laconia, NH	
7 Hills Avenue	Project Number: NH011	**Reported:**
Concord NH, 03301	Project Manager: Mr. Mark Henderson	24-Sep-13 16:35

SB-105/MW @ 20'-22'
1309037-02 (Soil)

Sampled: 10-Sep-13

Volatile Organic Compounds by EPA 8260B

Analyte	CAS Number	Result	Reporting Limit	Units	Analyzed	Notes
Acetone	67-64-1	BD	3.4	mg/Kg	16-Sep-13	
Benzene	71-43-2	BD	0.05	mg/Kg	16-Sep-13	
Bromobenzene	108-86-1	BD	0.14	mg/Kg	16-Sep-13	
Bromochloromethane	74-97-5	BD	0.14	mg/Kg	16-Sep-13	
Bromodichloromethane	75-27-4	BD	0.14	mg/Kg	16-Sep-13	
Bromoform	75-25-2	BD	0.14	mg/Kg	16-Sep-13	
Bromomethane	74-83-9	BD	0.14	mg/Kg	16-Sep-13	
Butylbenzene, n-	104-51-8	**0.75**	0.14	mg/Kg	16-Sep-13	
Butylbenzene, sec-	135-98-8	**0.60**	0.14	mg/Kg	16-Sep-13	
Butylbenzene, tert-	98-06-6	**0.17**	0.14	mg/Kg	16-Sep-13	
Carbon disulfide	75-15-0	BD	0.55	mg/Kg	16-Sep-13	
Carbon Tetrachloride	56-23-5	BD	0.14	mg/Kg	16-Sep-13	
Chloroethane	75-00-3	BD	0.14	mg/Kg	16-Sep-13	
Chloromethane	74-87-3	BD	0.27	mg/Kg	16-Sep-13	
Chlorotoluene, 2	95-49-8	BD	0.14	mg/Kg	16-Sep-13	
Chlorotoluene, 4	106-43-4	BD	0.14	mg/Kg	16-Sep-13	
Dibromochloromethane	124-48-1	BD	0.14	mg/Kg	16-Sep-13	
Dibromochloropropane	96-12-8	BD	0.27	mg/Kg	16-Sep-13	
Dibromomethane	74-95-3	BD	0.14	mg/Kg	16-Sep-13	
Dichlorobenzene, 1,2-	95-50-1	**0.66**	0.14	mg/Kg	16-Sep-13	
Dichlorobenzene, 1,3-	541-73-1	BD	0.14	mg/Kg	16-Sep-13	
Dichlorobenzene, 1,4-	106-46-7	BD	0.14	mg/Kg	16-Sep-13	
Dichlorodifluoromethane	75-71-8	BD	0.27	mg/Kg	16-Sep-13	
Dichloroethane, 1,1-	75-34-3	BD	0.14	mg/Kg	16-Sep-13	
Dichloroethane, 1,2-	107-06-2	BD	0.14	mg/Kg	16-Sep-13	
Dichloroethylene, 1,1-	75-35-4	BD	0.14	mg/Kg	16-Sep-13	
Dichloroethylene, cis-1,2-	156-59-2	BD	0.14	mg/Kg	16-Sep-13	
Dichloroethylene, trans-1,2-	156-60-5	BD	0.14	mg/Kg	16-Sep-13	
Dichloromethane	75-09-2	BD	0.27	mg/Kg	16-Sep-13	
Dichloropropane, 1,2-	78-87-5	BD	0.14	mg/Kg	16-Sep-13	
Dichloropropane, 1,3-	142-28-9	BD	0.14	mg/Kg	16-Sep-13	
Dichloropropane, 2,2-	594-20-7	BD	0.41	mg/Kg	16-Sep-13	
Dichloropropene, 1,1-	563-58-6	BD	0.14	mg/Kg	16-Sep-13	
Dichloropropene, cis-1,3-	10061-01-5	BD	0.14	mg/Kg	16-Sep-13	
Dichloropropene, trans-1,3-	10061-02-6	BD	0.14	mg/Kg	16-Sep-13	
Diethyl Ether	60-29-7	BD	3.4	mg/Kg	16-Sep-13	
Diisopropyl Ether	108-20-3	BD	0.14	mg/Kg	16-Sep-13	
Ethylbenzene	100-41-4	BD	0.14	mg/Kg	16-Sep-13	
Ethylene dibromide	106-93-4	BD	0.14	mg/Kg	16-Sep-13	
Ethyl tert-Butyl Ether	637-92-3	BD	0.14	mg/Kg	16-Sep-13	

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Sovereign Consulting, Inc.	Project: Frank Bean Road - Laconia, NH	
7 Hills Avenue	Project Number: NH011	**Reported:**
Concord NH, 03301	Project Manager: Mr. Mark Henderson	24-Sep-13 16:35

SB-105/MW @ 20'-22'
1309037-02 (Soil)

Sampled: 10-Sep-13

Volatile Organic Compounds by EPA 8260B

Analyte	CAS Number	Result	Reporting Limit	Units	Analyzed	Notes
Hexachlorobutadiene	87-68-3	BD	0.27	mg/Kg	16-Sep-13	
Isopropylbenzene	98-82-8	**0.29**	0.14	mg/Kg	16-Sep-13	
Isopropyltoluene, p-	99-87-6	**0.15**	0.14	mg/Kg	16-Sep-13	
Methyl Butyl Ketone (2-Hexanone)	591-78-6	BD	3.4	mg/Kg	16-Sep-13	
Methyl Ethyl Ketone (2-Butanone)	78-93-3	BD	3.4	mg/Kg	16-Sep-13	
Methyl Isobutyl Ketone	108-10-1	BD	3.4	mg/Kg	16-Sep-13	
Methyl-tert-Butyl Ether	1634-04-4	BD	0.05	mg/Kg	16-Sep-13	
Monochlorobenzene	108-90-7	BD	0.14	mg/Kg	16-Sep-13	
Naphthalene	91-20-3	BD	0.27	mg/Kg	16-Sep-13	
n-Propylbenzene	103-65-1	**0.54**	0.14	mg/Kg	16-Sep-13	
Styrene	100-42-5	BD	0.14	mg/Kg	16-Sep-13	
tert-Amyl Methyl Ether	994-05-8	BD	0.27	mg/Kg	16-Sep-13	
tert-Butyl alcohol	75-65-0	BD	1.4	mg/Kg	16-Sep-13	
Tetrachloroethane, 1,1,1,2-	630-20-6	BD	0.14	mg/Kg	16-Sep-13	
Tetrachloroethane, 1,1,2,2-	79-34-5	BD	0.14	mg/Kg	16-Sep-13	
Tetrachloroethylene	127-18-4	BD	0.14	mg/Kg	16-Sep-13	
Tetrahydrofuran	109-99-9	BD	3.4	mg/Kg	16-Sep-13	
Toluene	108-88-3	BD	0.14	mg/Kg	16-Sep-13	
Trichlorobenzene, 1,2,3-	87-61-6	BD	0.27	mg/Kg	16-Sep-13	
Trichlorobenzene, 1,2,4-	120-82-1	BD	0.27	mg/Kg	16-Sep-13	
Trichlorobenzene, 1,3,5-	108-70-3	BD	0.27	mg/Kg	16-Sep-13	
Trichloroethane, 1,1,1-	71-55-6	BD	0.14	mg/Kg	16-Sep-13	
Trichloroethane, 1,1,2-	79-00-5	BD	0.14	mg/Kg	16-Sep-13	
Trichloroethylene	79-01-6	BD	0.05	mg/Kg	16-Sep-13	
Trichloro 1,1,2-, trifluoro 1,2,2-, ethane	76-13-1	BD	0.27	mg/Kg	16-Sep-13	
Trichlorofluoromethane	75-69-4	BD	0.27	mg/Kg	16-Sep-13	
Trichloromethane	67-66-3	BD	0.14	mg/Kg	16-Sep-13	
Trichloropropane, 1,2,3-	96-18-4	BD	0.14	mg/Kg	16-Sep-13	
Trimethylbenzene, 1,2,4-	95-63-6	**0.32**	0.14	mg/Kg	16-Sep-13	
Trimethylbenzene, 1,3,5-	108-67-8	**0.19**	0.14	mg/Kg	16-Sep-13	
Vinyl chloride	75-01-4	BD	0.55	mg/Kg	16-Sep-13	
Xylenes, m & p-	108-38-3,106-42-3	BD	0.27	mg/Kg	16-Sep-13	
Xylenes, o-	95-47-6	BD	0.14	mg/Kg	16-Sep-13	

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Sovereign Consulting, Inc.	Project: Frank Bean Road - Laconia, NH	
7 Hills Avenue	Project Number: NH011	**Reported:**
Concord NH, 03301	Project Manager: Mr. Mark Henderson	24-Sep-13 16:35

SB-105/MW @ 20'-22'
1309037-02 (Soil)

Sampled: 10-Sep-13

Polycyclic Aromatic Hydrocarbons

Analyte	CAS Number	Result	Reporting Limit	Units	Analyzed	Method	Notes
Acenaphthene	83-32-9	BD	1.2	mg/Kg	23-Sep-13	8270C	
Acenaphthylene	208-96-8	BD	1.2	mg/Kg	23-Sep-13	8270C	Surr
Anthracene	120-12-7	BD	1.2	mg/Kg	23-Sep-13	8270C	
Benzo(a)anthracene	56-55-3	BD	0.30	mg/Kg	23-Sep-13	8270C	
Benzo(a)pyrene	50-32-8	BD	0.60	mg/Kg	23-Sep-13	8270C	
Benzo(b)fluoranthene	205-99-2	BD	0.30	mg/Kg	23-Sep-13	8270C	
Benzo(g,h,i)perylene	191-24-2	BD	1.2	mg/Kg	23-Sep-13	8270C	CCV
Benzo(k)fluoranthene	207-08-9	BD	1.2	mg/Kg	23-Sep-13	8270C	
Chrysene	218-01-9	BD	1.2	mg/Kg	23-Sep-13	8270C	
Dibenz (a,h) anthracene	53-70-3	BD	0.30	mg/Kg	23-Sep-13	8270C	CCV
Fluoranthene	206-44-0	BD	1.2	mg/Kg	23-Sep-13	8270C	
Fluorene	86-73-7	BD	1.2	mg/Kg	23-Sep-13	8270C	
Indeno(1,2,3-cd)pyrene	193-39-5	BD	0.30	mg/Kg	23-Sep-13	8270C	CCV
Methylnaphthalene, 1-	90-12-0	BD	1.2	mg/Kg	23-Sep-13	8270C	Surr
Methylnaphthalene, 2-	91-57-6	BD	1.2	mg/Kg	23-Sep-13	8270C	Surr
Naphthalene	91-20-3	BD	1.2	mg/Kg	23-Sep-13	8270C	Surr
Phenanthrene	85-01-8	BD	1.2	mg/Kg	23-Sep-13	8270C	
Pyrene	129-00-0	BD	1.2	mg/Kg	23-Sep-13	8270C	

Metals by ICPMS

Analyte	CAS Number	Result	Reporting Limit	Units	Analyzed	Method	Notes
Antimony	7440-36-0	BD	0.9	mg/Kg	16-Sep-13	6020A	
Arsenic	7440-38-2	**4**	0.9	mg/Kg	16-Sep-13	6020A	
Beryllium	7440-41-7	BD	0.9	mg/Kg	16-Sep-13	6020A	ISTD
Cadmium	7440-43-9	BD	0.9	mg/Kg	16-Sep-13	6020A	
Chromium	7440-47-3	**6**	0.9	mg/Kg	16-Sep-13	6020A	
Copper	7440-50-8	**13**	0.9	mg/Kg	16-Sep-13	6020A	
Lead	7439-92-1	**13**	0.9	mg/Kg	16-Sep-13	6020A	LCS
Mercury	7439-97-6	BD	0.18	mg/Kg	16-Sep-13	6020A	
Nickel	7440-02-0	**3**	0.9	mg/Kg	16-Sep-13	6020A	
Selenium	7782-49-2	BD	0.9	mg/Kg	16-Sep-13	6020A	
Silver	7440-22-4	BD	0.9	mg/Kg	16-Sep-13	6020A	
Thallium	7440-28-0	BD	0.9	mg/Kg	16-Sep-13	6020A	
Zinc	7440-66-6	**62**	3	mg/Kg	16-Sep-13	6020A	

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Laboratory Services
153 West Road
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Sovereign Consulting, Inc.	Project: Frank Bean Road - Laconia, NH	
7 Hills Avenue	Project Number: NH011	**Reported:**
Concord NH, 03301	Project Manager: Mr. Mark Henderson	24-Sep-13 16:35

SB-105/MW @ 20'-22'
1309037-02 (Soil)

Sampled: 10-Sep-13

% Solids, dry weight

Analyte	CAS Number	Result	Reporting Limit	Units	Analyzed	Method	Notes
% Solids	NA	**81.5**	0.1	[blank]	13-Sep-13	% Calculation	

Notes and Definitions

Surra	Surrogate recovery exceeds method specified limit:nitrobenzene-d5 29%
Surr	Surrogate recovery exceeds method specified limit:2-fluorobiphenyl 39%
LCS	Laboratory Control Sample exceeds limits Pb 127%.
ISTD	Internal standard exceeds limits.
CCV	Calibration Check exceeds limits benzo(g,h,i)perylene 57%, dibenz(a,h)anthracene 66%, indeno(1,2,3-cd)pyrene 64%

BD	Analyte result below the laboratory reporting limit
NR	Not Reported

Soil sample results reported on a dry weight basis.

The reporting limit is the lowest level at which reliable quantitation has been demonstrated.

Analytes in **bold** are values reported above the reporting limit.

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Laboratory Services

Canterbury, NH 03224
Phone:(603)783-9097
Fax:(603)783-0360
E-Mail: aquarianlab@comcast.net

Turnaround Requirements (check one)

RUSH SAMPLES NEED PRIOR APPROVAL

____ Same Day Turnaround (150% upcharge)
____ One Day Turnaround (100% upcharge)
____ Two Day Turnaround (50% upcharge)
____ Three Day Turnaround (25% upcharge)
X Normal turnaround

Project Information

Project #: NH011
Project Name: Frank Bean Rd.
Town/Site: Laconia, NH
Sampler: Dylan Bush
Company: Sovereign Consulting
BID Reference:

Project Manager: Mark Henderson
Report to: Sovereign Consulting
Invoice to: Sovereign Consulting
Phone: 603-856-8644
E-Mail: mhenderson@sovcon.com

Sample Information

AAI Work Order #	Sample ID	Sample Collection Time 9-10-2013	Sample Matrix	Number of Containers	VOC's-SVOC's: NELAC Qc Y___ N___	EPA 8260 w/ oxygenates	BTEX / MTBE	BTEX+MTBE+Naphthalene	Chlorinated only	EPA 524.2 Drinking Water	EDB	1,4 Dioxane	EPA 8270 A-B/N	EPA 8270 PAH	TPH: EPA 8015M Gasoline	EPA 8100M Fuel Oil	Fingerprint	Metals: RCRA 8	Field Filtered:	Lab Filtered:	Total: 13 PP METALS	TCLP: Zero Headspace Extraction (ZHE)	TCLP Pesticides	TCLP Herbicides	TCLP Metals	Other (list): PCB	EPA SW846-7 Reactivity	EPA 1010 Flashpoint / Ignitab	EPA 150.1 / 9045 pH	Alkalinity	Nitrate	Sulfate	Chloride	NH DES Full LIST
1309037-01	SB-104 @ 20'-22'	16:18	S	2	X									X							X													
-02	SB-105 @ 20'-22'	16:50	S	2	X									X							X													

Relinquished by: Dylan Bush	Date: 9.10.13 Time: 17:30	Received by: SOVCON REFRIGERATOR	
Relinquished by: Refridgerator	Date: 9.12.13 Time: 830	Received by: [signature]	
Relinquished by:	Date: Time:	Received by:	

Notes:
* Samples kept on ice during transport

Temperature 4 °C
Is this N.H. "ODD Fund" related? Y____ N ✓

Please keep samples on ice from the time of collection

Aquarian Analytical will subcontract those tests we do not perform with your prior approval

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24 September 2013

Mr. Mark Henderson
Sovereign Consulting, Inc.
7 Hills Avenue
Concord, NH 03301

RE: Frank Bean Road - Laconia, NH

Dear Mr. Henderson:

Enclosed are the results of analyses for the following samples, which were received at 4 c.

Laboratory ID	Sample ID	Sample matrix	Date sampled	Date received
1309038-01	**SB-106 @ 12'-14'**	Soil	11-Sep-13 15:44	12-Sep-13 08:30
1309038-02	**SB-107/MW @ 10'-12'**	Soil	11-Sep-13 15:35	12-Sep-13 08:30

The results in this report relate only to the submitted samples. Please refer to our website listed above for a list of accredited parameters. If you have any questions concerning this report, please feel free to contact me.

Alan G. Naber
Laboratory Director

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Sovereign Consulting, Inc.	Project: Frank Bean Road - Laconia, NH	
7 Hills Avenue	Project Number: NH011	**Reported:**
Concord NH, 03301	Project Manager: Mr. Mark Henderson	24-Sep-13 16:36

SB-106 @ 12'-14'
1309038-01 (Soil)

Sampled: 11-Sep-13

Volatile Organic Compounds by EPA 8260B

Analyte	CAS Number	Result	Reporting Limit	Units	Analyzed	Notes
Acetone	67-64-1	BD	3.8	mg/Kg	16-Sep-13	
Benzene	71-43-2	BD	0.06	mg/Kg	16-Sep-13	
Bromobenzene	108-86-1	BD	0.15	mg/Kg	16-Sep-13	
Bromochloromethane	74-97-5	BD	0.15	mg/Kg	16-Sep-13	
Bromodichloromethane	75-27-4	BD	0.15	mg/Kg	16-Sep-13	
Bromoform	75-25-2	BD	0.15	mg/Kg	16-Sep-13	
Bromomethane	74-83-9	BD	0.15	mg/Kg	16-Sep-13	
Butylbenzene, n-	104-51-8	**0.50**	0.15	mg/Kg	16-Sep-13	
Butylbenzene, sec-	135-98-8	**0.43**	0.15	mg/Kg	16-Sep-13	
Butylbenzene, tert-	98-06-6	BD	0.15	mg/Kg	16-Sep-13	
Carbon disulfide	75-15-0	BD	0.60	mg/Kg	16-Sep-13	
Carbon Tetrachloride	56-23-5	BD	0.15	mg/Kg	16-Sep-13	
Chloroethane	75-00-3	BD	0.15	mg/Kg	16-Sep-13	
Chloromethane	74-87-3	BD	0.30	mg/Kg	16-Sep-13	
Chlorotoluene, 2	95-49-8	BD	0.15	mg/Kg	16-Sep-13	
Chlorotoluene, 4	106-43-4	BD	0.15	mg/Kg	16-Sep-13	
Dibromochloromethane	124-48-1	BD	0.15	mg/Kg	16-Sep-13	
Dibromochloropropane	96-12-8	BD	0.30	mg/Kg	16-Sep-13	
Dibromomethane	74-95-3	BD	0.15	mg/Kg	16-Sep-13	
Dichlorobenzene, 1,2-	95-50-1	BD	0.15	mg/Kg	16-Sep-13	
Dichlorobenzene, 1,3-	541-73-1	BD	0.15	mg/Kg	16-Sep-13	
Dichlorobenzene, 1,4-	106-46-7	BD	0.15	mg/Kg	16-Sep-13	
Dichlorodifluoromethane	75-71-8	BD	0.30	mg/Kg	16-Sep-13	
Dichloroethane, 1,1-	75-34-3	BD	0.15	mg/Kg	16-Sep-13	
Dichloroethane, 1,2-	107-06-2	BD	0.15	mg/Kg	16-Sep-13	
Dichloroethylene, 1,1-	75-35-4	BD	0.15	mg/Kg	16-Sep-13	
Dichloroethylene, cis-1,2-	156-59-2	BD	0.15	mg/Kg	16-Sep-13	
Dichloroethylene, trans-1,2-	156-60-5	BD	0.15	mg/Kg	16-Sep-13	
Dichloromethane	75-09-2	BD	0.30	mg/Kg	16-Sep-13	
Dichloropropane, 1,2-	78-87-5	BD	0.15	mg/Kg	16-Sep-13	
Dichloropropane, 1,3-	142-28-9	BD	0.15	mg/Kg	16-Sep-13	
Dichloropropane, 2,2-	594-20-7	BD	0.45	mg/Kg	16-Sep-13	
Dichloropropene, 1,1-	563-58-6	BD	0.15	mg/Kg	16-Sep-13	
Dichloropropene, cis-1,3-	10061-01-5	BD	0.15	mg/Kg	16-Sep-13	
Dichloropropene, trans-1,3-	10061-02-6	BD	0.15	mg/Kg	16-Sep-13	
Diethyl Ether	60-29-7	BD	3.8	mg/Kg	16-Sep-13	
Diisopropyl Ether	108-20-3	BD	0.15	mg/Kg	16-Sep-13	
Ethylbenzene	100-41-4	BD	0.15	mg/Kg	16-Sep-13	
Ethylene dibromide	106-93-4	BD	0.15	mg/Kg	16-Sep-13	
Ethyl tert-Butyl Ether	637-92-3	BD	0.15	mg/Kg	16-Sep-13	

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Sovereign Consulting, Inc.	Project: Frank Bean Road - Laconia, NH	
7 Hills Avenue	Project Number: NH011	**Reported:**
Concord NH, 03301	Project Manager: Mr. Mark Henderson	24-Sep-13 16:36

SB-106 @ 12'-14'
1309038-01 (Soil)

Sampled: 11-Sep-13

Volatile Organic Compounds by EPA 8260B

Analyte	CAS Number	Result	Reporting Limit	Units	Analyzed	Notes
Hexachlorobutadiene	87-68-3	BD	0.30	mg/Kg	16-Sep-13	
Isopropylbenzene	98-82-8	BD	0.15	mg/Kg	16-Sep-13	
Isopropyltoluene, p-	99-87-6	**0.72**	0.15	mg/Kg	16-Sep-13	
Methyl Butyl Ketone (2-Hexanone)	591-78-6	BD	3.8	mg/Kg	16-Sep-13	
Methyl Ethyl Ketone (2-Butanone)	78-93-3	BD	3.8	mg/Kg	16-Sep-13	
Methyl Isobutyl Ketone	108-10-1	BD	3.8	mg/Kg	16-Sep-13	
Methyl-tert-Butyl Ether	1634-04-4	BD	0.06	mg/Kg	16-Sep-13	
Monochlorobenzene	108-90-7	BD	0.15	mg/Kg	16-Sep-13	
Naphthalene	91-20-3	BD	0.30	mg/Kg	16-Sep-13	
n-Propylbenzene	103-65-1	**0.20**	0.15	mg/Kg	16-Sep-13	
Styrene	100-42-5	BD	0.15	mg/Kg	16-Sep-13	
tert-Amyl Methyl Ether	994-05-8	BD	0.30	mg/Kg	16-Sep-13	
tert-Butyl alcohol	75-65-0	BD	1.5	mg/Kg	16-Sep-13	
Tetrachloroethane, 1,1,1,2-	630-20-6	BD	0.15	mg/Kg	16-Sep-13	
Tetrachloroethane, 1,1,2,2-	79-34-5	BD	0.15	mg/Kg	16-Sep-13	
Tetrachloroethylene	127-18-4	BD	0.15	mg/Kg	16-Sep-13	
Tetrahydrofuran	109-99-9	BD	3.8	mg/Kg	16-Sep-13	
Toluene	108-88-3	BD	0.15	mg/Kg	16-Sep-13	
Trichlorobenzene, 1,2,3-	87-61-6	BD	0.30	mg/Kg	16-Sep-13	
Trichlorobenzene, 1,2,4-	120-82-1	BD	0.30	mg/Kg	16-Sep-13	
Trichlorobenzene, 1,3,5-	108-70-3	BD	0.30	mg/Kg	16-Sep-13	
Trichloroethane, 1,1,1-	71-55-6	BD	0.15	mg/Kg	16-Sep-13	
Trichloroethane, 1,1,2-	79-00-5	BD	0.15	mg/Kg	16-Sep-13	
Trichloroethylene	79-01-6	BD	0.06	mg/Kg	16-Sep-13	
Trichloro 1,1,2-, trifluoro 1,2,2-, ethane	76-13-1	BD	0.30	mg/Kg	16-Sep-13	
Trichlorofluoromethane	75-69-4	BD	0.30	mg/Kg	16-Sep-13	
Trichloromethane	67-66-3	BD	0.15	mg/Kg	16-Sep-13	
Trichloropropane, 1,2,3-	96-18-4	BD	0.15	mg/Kg	16-Sep-13	
Trimethylbenzene, 1,2,4-	95-63-6	BD	0.15	mg/Kg	16-Sep-13	
Trimethylbenzene, 1,3,5-	108-67-8	BD	0.15	mg/Kg	16-Sep-13	
Vinyl chloride	75-01-4	BD	0.60	mg/Kg	16-Sep-13	
Xylenes, m & p-	108-38-3,106-42-3	BD	0.30	mg/Kg	16-Sep-13	
Xylenes, o-	95-47-6	BD	0.15	mg/Kg	16-Sep-13	

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Sovereign Consulting, Inc.	Project: Frank Bean Road - Laconia, NH	
7 Hills Avenue	Project Number: NH011	**Reported:**
Concord NH, 03301	Project Manager: Mr. Mark Henderson	24-Sep-13 16:36

SB-106 @ 12'-14'
1309038-01 (Soil)

Sampled: 11-Sep-13

Polycyclic Aromatic Hydrocarbons

Analyte	CAS Number	Result	Reporting Limit	Units	Analyzed	Method	Notes
Acenaphthene	83-32-9	BD	1.2	mg/Kg	23-Sep-13	8270C	
Acenaphthylene	208-96-8	BD	1.2	mg/Kg	23-Sep-13	8270C	
Anthracene	120-12-7	BD	1.2	mg/Kg	23-Sep-13	8270C	
Benzo(a)anthracene	56-55-3	BD	0.30	mg/Kg	23-Sep-13	8270C	
Benzo(a)pyrene	50-32-8	BD	0.60	mg/Kg	23-Sep-13	8270C	
Benzo(b)fluoranthene	205-99-2	BD	0.30	mg/Kg	23-Sep-13	8270C	
Benzo(g,h,i)perylene	191-24-2	BD	1.2	mg/Kg	23-Sep-13	8270C	CCV
Benzo(k)fluoranthene	207-08-9	BD	1.2	mg/Kg	23-Sep-13	8270C	
Chrysene	218-01-9	BD	1.2	mg/Kg	23-Sep-13	8270C	
Dibenz (a,h) anthracene	53-70-3	BD	0.30	mg/Kg	23-Sep-13	8270C	CCV
Fluoranthene	206-44-0	BD	1.2	mg/Kg	23-Sep-13	8270C	
Fluorene	86-73-7	BD	1.2	mg/Kg	23-Sep-13	8270C	
Indeno(1,2,3-cd)pyrene	193-39-5	BD	0.30	mg/Kg	23-Sep-13	8270C	CCV
Methylnaphthalene, 1-	90-12-0	**1.5**	1.2	mg/Kg	23-Sep-13	8270C	
Methylnaphthalene, 2-	91-57-6	BD	1.2	mg/Kg	23-Sep-13	8270C	
Naphthalene	91-20-3	BD	1.2	mg/Kg	23-Sep-13	8270C	
Phenanthrene	85-01-8	BD	1.2	mg/Kg	23-Sep-13	8270C	
Pyrene	129-00-0	BD	1.2	mg/Kg	23-Sep-13	8270C	

Metals by ICPMS

Analyte	CAS Number	Result	Reporting Limit	Units	Analyzed	Method	Notes
Antimony	7440-36-0	BD	0.8	mg/Kg	16-Sep-13	6020A	
Arsenic	7440-38-2	**5**	0.8	mg/Kg	16-Sep-13	6020A	
Beryllium	7440-41-7	BD	0.8	mg/Kg	16-Sep-13	6020A	ISTD
Cadmium	7440-43-9	BD	0.8	mg/Kg	16-Sep-13	6020A	
Chromium	7440-47-3	**4**	0.8	mg/Kg	16-Sep-13	6020A	
Copper	7440-50-8	**4**	0.8	mg/Kg	16-Sep-13	6020A	
Lead	7439-92-1	**4**	0.8	mg/Kg	16-Sep-13	6020A	LCS
Mercury	7439-97-6	BD	0.16	mg/Kg	16-Sep-13	6020A	
Nickel	7440-02-0	**3**	0.8	mg/Kg	16-Sep-13	6020A	
Selenium	7782-49-2	BD	0.8	mg/Kg	16-Sep-13	6020A	
Silver	7440-22-4	BD	0.8	mg/Kg	16-Sep-13	6020A	
Thallium	7440-28-0	BD	0.8	mg/Kg	16-Sep-13	6020A	
Zinc	7440-66-6	**20**	2	mg/Kg	16-Sep-13	6020A	

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Sovereign Consulting, Inc.	Project: Frank Bean Road - Laconia, NH	
7 Hills Avenue	Project Number: NH011	**Reported:**
Concord NH, 03301	Project Manager: Mr. Mark Henderson	24-Sep-13 16:36

SB-106 @ 12'-14'
1309038-01 (Soil)

Sampled: 11-Sep-13

% Solids, dry weight

Analyte	CAS Number	Result	Reporting Limit	Units	Analyzed	Method	Notes
% Solids	NA	**81.2**	0.1	[blank]	13-Sep-13	% Calculation	

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Sovereign Consulting, Inc.	Project: Frank Bean Road - Laconia, NH	
7 Hills Avenue	Project Number: NH011	**Reported:**
Concord NH, 03301	Project Manager: Mr. Mark Henderson	24-Sep-13 16:36

SB-107/MW @ 10'-12'
1309038-02 (Soil)

Sampled: 11-Sep-13

Volatile Organic Compounds by EPA 8260B

Analyte	CAS Number	Result	Reporting Limit	Units	Analyzed	Notes
Acetone	67-64-1	BD	3.7	mg/Kg	16-Sep-13	
Benzene	71-43-2	BD	0.06	mg/Kg	16-Sep-13	
Bromobenzene	108-86-1	BD	0.15	mg/Kg	16-Sep-13	
Bromochloromethane	74-97-5	BD	0.15	mg/Kg	16-Sep-13	
Bromodichloromethane	75-27-4	BD	0.15	mg/Kg	16-Sep-13	
Bromoform	75-25-2	BD	0.15	mg/Kg	16-Sep-13	
Bromomethane	74-83-9	BD	0.15	mg/Kg	16-Sep-13	
Butylbenzene, n-	104-51-8	**0.84**	0.15	mg/Kg	16-Sep-13	
Butylbenzene, sec-	135-98-8	**0.52**	0.15	mg/Kg	16-Sep-13	
Butylbenzene, tert-	98-06-6	BD	0.15	mg/Kg	16-Sep-13	
Carbon disulfide	75-15-0	BD	0.59	mg/Kg	16-Sep-13	
Carbon Tetrachloride	56-23-5	BD	0.15	mg/Kg	16-Sep-13	
Chloroethane	75-00-3	BD	0.15	mg/Kg	16-Sep-13	
Chloromethane	74-87-3	BD	0.29	mg/Kg	16-Sep-13	
Chlorotoluene, 2	95-49-8	BD	0.15	mg/Kg	16-Sep-13	
Chlorotoluene, 4	106-43-4	BD	0.15	mg/Kg	16-Sep-13	
Dibromochloromethane	124-48-1	BD	0.15	mg/Kg	16-Sep-13	
Dibromochloropropane	96-12-8	BD	0.29	mg/Kg	16-Sep-13	
Dibromomethane	74-95-3	BD	0.15	mg/Kg	16-Sep-13	
Dichlorobenzene, 1,2-	95-50-1	BD	0.15	mg/Kg	16-Sep-13	
Dichlorobenzene, 1,3-	541-73-1	BD	0.15	mg/Kg	16-Sep-13	
Dichlorobenzene, 1,4-	106-46-7	BD	0.15	mg/Kg	16-Sep-13	
Dichlorodifluoromethane	75-71-8	BD	0.29	mg/Kg	16-Sep-13	
Dichloroethane, 1,1-	75-34-3	BD	0.15	mg/Kg	16-Sep-13	
Dichloroethane, 1,2-	107-06-2	BD	0.15	mg/Kg	16-Sep-13	
Dichloroethylene, 1,1-	75-35-4	BD	0.15	mg/Kg	16-Sep-13	
Dichloroethylene, cis-1,2-	156-59-2	BD	0.15	mg/Kg	16-Sep-13	
Dichloroethylene, trans-1,2-	156-60-5	BD	0.15	mg/Kg	16-Sep-13	
Dichloromethane	75-09-2	BD	0.29	mg/Kg	16-Sep-13	
Dichloropropane, 1,2-	78-87-5	BD	0.15	mg/Kg	16-Sep-13	
Dichloropropane, 1,3-	142-28-9	BD	0.15	mg/Kg	16-Sep-13	
Dichloropropane, 2,2-	594-20-7	BD	0.44	mg/Kg	16-Sep-13	
Dichloropropene, 1,1-	563-58-6	BD	0.15	mg/Kg	16-Sep-13	
Dichloropropene, cis-1,3-	10061-01-5	BD	0.15	mg/Kg	16-Sep-13	
Dichloropropene, trans-1,3-	10061-02-6	BD	0.15	mg/Kg	16-Sep-13	
Diethyl Ether	60-29-7	BD	3.7	mg/Kg	16-Sep-13	
Diisopropyl Ether	108-20-3	BD	0.15	mg/Kg	16-Sep-13	
Ethylbenzene	100-41-4	BD	0.15	mg/Kg	16-Sep-13	
Ethylene dibromide	106-93-4	BD	0.15	mg/Kg	16-Sep-13	
Ethyl tert-Butyl Ether	637-92-3	BD	0.15	mg/Kg	16-Sep-13	

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Sovereign Consulting, Inc.	Project: Frank Bean Road - Laconia, NH	
7 Hills Avenue	Project Number: NH011	**Reported:**
Concord NH, 03301	Project Manager: Mr. Mark Henderson	24-Sep-13 16:36

SB-107/MW @ 10'-12'
1309038-02 (Soil)

Sampled: 11-Sep-13

Volatile Organic Compounds by EPA 8260B

Analyte	CAS Number	Result	Reporting Limit	Units	Analyzed	Notes
Hexachlorobutadiene	87-68-3	BD	0.29	mg/Kg	16-Sep-13	
Isopropylbenzene	98-82-8	BD	0.15	mg/Kg	16-Sep-13	
Isopropyltoluene, p-	99-87-6	**0.90**	0.15	mg/Kg	16-Sep-13	
Methyl Butyl Ketone (2-Hexanone)	591-78-6	BD	3.7	mg/Kg	16-Sep-13	
Methyl Ethyl Ketone (2-Butanone)	78-93-3	BD	3.7	mg/Kg	16-Sep-13	
Methyl Isobutyl Ketone	108-10-1	BD	3.7	mg/Kg	16-Sep-13	
Methyl-tert-Butyl Ether	1634-04-4	BD	0.06	mg/Kg	16-Sep-13	
Monochlorobenzene	108-90-7	BD	0.15	mg/Kg	16-Sep-13	
Naphthalene	91-20-3	BD	0.29	mg/Kg	16-Sep-13	
n-Propylbenzene	103-65-1	**0.43**	0.15	mg/Kg	16-Sep-13	
Styrene	100-42-5	BD	0.15	mg/Kg	16-Sep-13	
tert-Amyl Methyl Ether	994-05-8	BD	0.29	mg/Kg	16-Sep-13	
tert-Butyl alcohol	75-65-0	BD	1.5	mg/Kg	16-Sep-13	
Tetrachloroethane, 1,1,1,2-	630-20-6	BD	0.15	mg/Kg	16-Sep-13	
Tetrachloroethane, 1,1,2,2-	79-34-5	BD	0.15	mg/Kg	16-Sep-13	
Tetrachloroethylene	127-18-4	BD	0.15	mg/Kg	16-Sep-13	
Tetrahydrofuran	109-99-9	BD	3.7	mg/Kg	16-Sep-13	
Toluene	108-88-3	BD	0.15	mg/Kg	16-Sep-13	
Trichlorobenzene, 1,2,3-	87-61-6	BD	0.29	mg/Kg	16-Sep-13	
Trichlorobenzene, 1,2,4-	120-82-1	BD	0.29	mg/Kg	16-Sep-13	
Trichlorobenzene, 1,3,5-	108-70-3	BD	0.29	mg/Kg	16-Sep-13	
Trichloroethane, 1,1,1-	71-55-6	BD	0.15	mg/Kg	16-Sep-13	
Trichloroethane, 1,1,2-	79-00-5	BD	0.15	mg/Kg	16-Sep-13	
Trichloroethylene	79-01-6	BD	0.06	mg/Kg	16-Sep-13	
Trichloro 1,1,2-, trifluoro 1,2,2-, ethane	76-13-1	BD	0.29	mg/Kg	16-Sep-13	
Trichlorofluoromethane	75-69-4	BD	0.29	mg/Kg	16-Sep-13	
Trichloromethane	67-66-3	BD	0.15	mg/Kg	16-Sep-13	
Trichloropropane, 1,2,3-	96-18-4	BD	0.15	mg/Kg	16-Sep-13	
Trimethylbenzene, 1,2,4-	95-63-6	BD	0.15	mg/Kg	16-Sep-13	
Trimethylbenzene, 1,3,5-	108-67-8	BD	0.15	mg/Kg	16-Sep-13	
Vinyl chloride	75-01-4	BD	0.59	mg/Kg	16-Sep-13	
Xylenes, m & p-	108-38-3,106-42-3	BD	0.29	mg/Kg	16-Sep-13	
Xylenes, o-	95-47-6	BD	0.15	mg/Kg	16-Sep-13	

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Sovereign Consulting, Inc.	Project: Frank Bean Road - Laconia, NH	
7 Hills Avenue	Project Number: NH011	**Reported:**
Concord NH, 03301	Project Manager: Mr. Mark Henderson	24-Sep-13 16:36

SB-107/MW @ 10'-12'
1309038-02 (Soil)

Sampled: 11-Sep-13

Polycyclic Aromatic Hydrocarbons

Analyte	CAS Number	Result	Reporting Limit	Units	Analyzed	Method	Notes
Acenaphthene	83-32-9	BD	1.2	mg/Kg	23-Sep-13	8270C	
Acenaphthylene	208-96-8	BD	1.2	mg/Kg	23-Sep-13	8270C	
Anthracene	120-12-7	BD	1.2	mg/Kg	23-Sep-13	8270C	
Benzo(a)anthracene	56-55-3	BD	0.30	mg/Kg	23-Sep-13	8270C	
Benzo(a)pyrene	50-32-8	BD	0.60	mg/Kg	23-Sep-13	8270C	
Benzo(b)fluoranthene	205-99-2	BD	0.30	mg/Kg	23-Sep-13	8270C	
Benzo(g,h,i)perylene	191-24-2	BD	1.2	mg/Kg	23-Sep-13	8270C	CCV
Benzo(k)fluoranthene	207-08-9	BD	1.2	mg/Kg	23-Sep-13	8270C	
Chrysene	218-01-9	BD	1.2	mg/Kg	23-Sep-13	8270C	
Dibenz (a,h) anthracene	53-70-3	BD	0.30	mg/Kg	23-Sep-13	8270C	CCV
Fluoranthene	206-44-0	BD	1.2	mg/Kg	23-Sep-13	8270C	
Fluorene	86-73-7	BD	1.2	mg/Kg	23-Sep-13	8270C	
Indeno(1,2,3-cd)pyrene	193-39-5	BD	0.30	mg/Kg	23-Sep-13	8270C	CCV
Methylnaphthalene, 1-	90-12-0	**2.8**	1.2	mg/Kg	23-Sep-13	8270C	
Methylnaphthalene, 2-	91-57-6	BD	1.2	mg/Kg	23-Sep-13	8270C	
Naphthalene	91-20-3	BD	1.2	mg/Kg	23-Sep-13	8270C	
Phenanthrene	85-01-8	**1.7**	1.2	mg/Kg	23-Sep-13	8270C	
Pyrene	129-00-0	BD	1.2	mg/Kg	23-Sep-13	8270C	

Metals by ICPMS

Analyte	CAS Number	Result	Reporting Limit	Units	Analyzed	Method	Notes
Antimony	7440-36-0	BD	0.9	mg/Kg	16-Sep-13	6020A	
Arsenic	7440-38-2	**7**	0.9	mg/Kg	16-Sep-13	6020A	
Beryllium	7440-41-7	BD	0.9	mg/Kg	16-Sep-13	6020A	ISTD
Cadmium	7440-43-9	BD	0.9	mg/Kg	16-Sep-13	6020A	
Chromium	7440-47-3	**6**	0.9	mg/Kg	16-Sep-13	6020A	
Copper	7440-50-8	**4**	0.9	mg/Kg	16-Sep-13	6020A	
Lead	7439-92-1	**4**	0.9	mg/Kg	16-Sep-13	6020A	LCS
Mercury	7439-97-6	BD	0.18	mg/Kg	16-Sep-13	6020A	
Nickel	7440-02-0	**4**	0.9	mg/Kg	16-Sep-13	6020A	
Selenium	7782-49-2	BD	0.9	mg/Kg	16-Sep-13	6020A	
Silver	7440-22-4	BD	0.9	mg/Kg	16-Sep-13	6020A	
Thallium	7440-28-0	BD	0.9	mg/Kg	16-Sep-13	6020A	
Zinc	7440-66-6	**29**	3	mg/Kg	16-Sep-13	6020A	

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Sovereign Consulting, Inc.	Project: Frank Bean Road - Laconia, NH	
7 Hills Avenue	Project Number: NH011	**Reported:**
Concord NH, 03301	Project Manager: Mr. Mark Henderson	24-Sep-13 16:36

SB-107/MW @ 10'-12'
1309038-02 (Soil)

Sampled: 11-Sep-13

% Solids, dry weight

Analyte	CAS Number	Result	Reporting Limit	Units	Analyzed	Method	Notes
% Solids	NA	**81.4**	0.1	[blank]	13-Sep-13	% Calculation	

Notes and Definitions

LCS Laboratory Control Sample exceeds limits Pb 127%.

ISTD Internal standard exceeds limits.

CCV Calibration Check exceeds limits benzo(g,h,i)perylene 57%, dibenz(a,h)anthracene 66%, indeno(1,2,3-cd)pyrene 64%

BD Analyte result below the laboratory reporting limit

NR Not Reported

Soil sample results reported on a dry weight basis.

The reporting limit is the lowest level at which reliable quantitation has been demonstrated.

Analytes in **bold** are values reported above the reporting limit.

Aquarian Analytical, Inc.

Laboratory Services

153 West Road
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Phone:(603)783-9097
Fax:(603)783-0360
E-Mail: aquarianlab@comcast.net

Turnaround Requirements (check one)

- RUSH SAMPLES NEED PRIOR APPROVAL
- ____ Same Day Turnaround (150% upcharge)
- ____ One Day Turnaround (100% upcharge)
- ____ Two Day Turnaround (50% upcharge)
- ____ Three Day Turnaround (25% upcharge)
- X Normal turnaround

Project Information

Project #:	NH011	Project Manager:	Mark Henderson
Project Name:	Frank Bean Rd.	Report to:	Sovereign Consulting
Town/Site:	Laconia, NH	Invoice to:	Sovereign Consulting
Sampler:	Dylan Bush	Phone:	603-856-8644
Company:	Sovereign Consulting	E-Mail:	mhenderson@sovcon.com
BID Reference:			

Sample Information / VOC's-SVOC's / TPH / Metals / TCLP / Other (list)

NELAC Qc Y___ N___

AAI Work Order #	Sample ID	Sample Collection Time	Sample Matrix	Number of Containers	EPA 8260 w/ oxygenates	BTEX / MTBE	BTEX+MTBE+Naphthalene	Chlorinated only	EPA 524.2 Drinking Water	EDB	1,4 Dioxane	EPA 8270 A-B/N	EPA 8270 PAH	EPA 8015M Gasoline	EPA 8100M Fuel Oil	Fingerprint	RCRA 8	Field Filtered:	Lab Filtered:	Total: 13 PP METALS	Zero Headspace Extraction (ZHE)	TCLP Pesticides	TCLP Herbicides	TCLP Metals	PCB	EPA SW846-7 Reactivity	EPA 1010 Flashpoint / Ignitab	EPA 150.1 / 9045 pH	Alkalinity	Nitrate	Sulfate	Chloride	NH DES Full LIST
		9-11-2013																															
1309038-01	SB-106@12'-14'	15:44	S	2	X								X							X													
-02	SB-107/MW2@10'-12'	15:35	S	2	X								X							X													

Relinquished by: [signature]	Date: 9.11.13 Time: 16:35	Received by: SOVCON REFRIGERATOR	Notes: * Samples kept on ice during transport
Relinquished by: Refrigerator	Date: 9-12-13 Time: 830	Received by: [signature]	Temperature 4 °C
Relinquished by:	Date: Time:	Received by:	Is this N.H. "ODD Fund" related? Y____ N ✓

Aquarian Analytical will subcontract those tests we do not perform with your prior approval

Please keep samples on ice from the time of collection

Aquarian Analytical, Inc.
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26 September 2013

Mr. Mark Henderson
Sovereign Consulting, Inc.
7 Hills Avenue
Concord, NH 03301

RE: Frank Bean Road - Laconia, NH

Dear Mr. Henderson:

Enclosed are the results of analyses for the following samples, which were received at 4 c.

Laboratory ID	Sample ID	Sample matrix	Date sampled	Date received
1309052-01	**SB-108/MW @ 18'-20'**	Soil	12-Sep-13 08:46	17-Sep-13 08:45
1309052-02	**SB-109/MW @ 8'-10'**	Soil	12-Sep-13 16:05	17-Sep-13 08:45
1309052-03	**SB-110/MW @ 24'-26'**	Soil	12-Sep-13 16:10	17-Sep-13 08:45

The results in this report relate only to the submitted samples. Please refer to our website listed above for a list of accredited parameters. If you have any questions concerning this report, please feel free to contact me.

James R. Sherburne

Jim Sherburne For Alan G. Naber

Laboratory Director

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Sovereign Consulting, Inc.	Project: Frank Bean Road - Laconia, NH	
7 Hills Avenue	Project Number: NH011	**Reported:**
Concord NH, 03301	Project Manager: Mr. Mark Henderson	26-Sep-13 14:43

SB-108/MW @ 18'-20'
1309052-01 (Soil)

Sampled: 12-Sep-13

Volatile Organic Compounds by EPA 8260B

Analyte	CAS Number	Result	Reporting Limit	Units	Analyzed	Notes
Acetone	67-64-1	BD	1.8	mg/Kg	19-Sep-13	
Benzene	71-43-2	BD	0.03	mg/Kg	19-Sep-13	
Bromobenzene	108-86-1	BD	0.07	mg/Kg	19-Sep-13	
Bromochloromethane	74-97-5	BD	0.07	mg/Kg	19-Sep-13	
Bromodichloromethane	75-27-4	BD	0.07	mg/Kg	19-Sep-13	
Bromoform	75-25-2	BD	0.07	mg/Kg	19-Sep-13	
Bromomethane	74-83-9	BD	0.07	mg/Kg	19-Sep-13	
Butylbenzene, n-	104-51-8	BD	0.07	mg/Kg	19-Sep-13	
Butylbenzene, sec-	135-98-8	BD	0.07	mg/Kg	19-Sep-13	
Butylbenzene, tert-	98-06-6	BD	0.07	mg/Kg	19-Sep-13	
Carbon disulfide	75-15-0	BD	0.29	mg/Kg	19-Sep-13	
Carbon Tetrachloride	56-23-5	BD	0.07	mg/Kg	19-Sep-13	
Chloroethane	75-00-3	BD	0.07	mg/Kg	19-Sep-13	
Chloromethane	74-87-3	BD	0.14	mg/Kg	19-Sep-13	
Chlorotoluene, 2	95-49-8	BD	0.07	mg/Kg	19-Sep-13	
Chlorotoluene, 4	106-43-4	BD	0.07	mg/Kg	19-Sep-13	
Dibromochloromethane	124-48-1	BD	0.07	mg/Kg	19-Sep-13	
Dibromochloropropane	96-12-8	BD	0.14	mg/Kg	19-Sep-13	
Dibromomethane	74-95-3	BD	0.07	mg/Kg	19-Sep-13	
Dichlorobenzene, 1,2-	95-50-1	BD	0.07	mg/Kg	19-Sep-13	
Dichlorobenzene, 1,3-	541-73-1	BD	0.07	mg/Kg	19-Sep-13	
Dichlorobenzene, 1,4-	106-46-7	BD	0.07	mg/Kg	19-Sep-13	
Dichlorodifluoromethane	75-71-8	BD	0.14	mg/Kg	19-Sep-13	
Dichloroethane, 1,1-	75-34-3	BD	0.07	mg/Kg	19-Sep-13	
Dichloroethane, 1,2-	107-06-2	BD	0.07	mg/Kg	19-Sep-13	
Dichloroethylene, 1,1-	75-35-4	BD	0.07	mg/Kg	19-Sep-13	
Dichloroethylene, cis-1,2-	156-59-2	BD	0.07	mg/Kg	19-Sep-13	
Dichloroethylene, trans-1,2-	156-60-5	BD	0.07	mg/Kg	19-Sep-13	
Dichloromethane	75-09-2	BD	0.14	mg/Kg	19-Sep-13	
Dichloropropane, 1,2-	78-87-5	BD	0.07	mg/Kg	19-Sep-13	
Dichloropropane, 1,3-	142-28-9	BD	0.07	mg/Kg	19-Sep-13	
Dichloropropane, 2,2-	594-20-7	BD	0.22	mg/Kg	19-Sep-13	
Dichloropropene, 1,1-	563-58-6	BD	0.07	mg/Kg	19-Sep-13	
Dichloropropene, cis-1,3-	10061-01-5	BD	0.07	mg/Kg	19-Sep-13	
Dichloropropene, trans-1,3-	10061-02-6	BD	0.07	mg/Kg	19-Sep-13	
Diethyl Ether	60-29-7	BD	1.8	mg/Kg	19-Sep-13	
Diisopropyl Ether	108-20-3	BD	0.07	mg/Kg	19-Sep-13	
Ethylbenzene	100-41-4	BD	0.07	mg/Kg	19-Sep-13	
Ethylene dibromide	106-93-4	BD	0.07	mg/Kg	19-Sep-13	
Ethyl tert-Butyl Ether	637-92-3	BD	0.07	mg/Kg	19-Sep-13	

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Sovereign Consulting, Inc.	Project: Frank Bean Road - Laconia, NH	
7 Hills Avenue	Project Number: NH011	**Reported:**
Concord NH, 03301	Project Manager: Mr. Mark Henderson	26-Sep-13 14:43

SB-108/MW @ 18'-20'
1309052-01 (Soil)

Sampled: 12-Sep-13

Volatile Organic Compounds by EPA 8260B

Analyte	CAS Number	Result	Reporting Limit	Units	Analyzed	Notes
Hexachlorobutadiene	87-68-3	BD	0.14	mg/Kg	19-Sep-13	
Isopropylbenzene	98-82-8	BD	0.07	mg/Kg	19-Sep-13	
Isopropyltoluene, p-	99-87-6	BD	0.07	mg/Kg	19-Sep-13	
Methyl Butyl Ketone (2-Hexanone)	591-78-6	BD	1.8	mg/Kg	19-Sep-13	
Methyl Ethyl Ketone (2-Butanone)	78-93-3	BD	1.8	mg/Kg	19-Sep-13	
Methyl Isobutyl Ketone	108-10-1	BD	1.8	mg/Kg	19-Sep-13	
Methyl-tert-Butyl Ether	1634-04-4	BD	0.03	mg/Kg	19-Sep-13	
Monochlorobenzene	108-90-7	BD	0.07	mg/Kg	19-Sep-13	
Naphthalene	91-20-3	BD	0.14	mg/Kg	19-Sep-13	
n-Propylbenzene	103-65-1	BD	0.07	mg/Kg	19-Sep-13	
Styrene	100-42-5	BD	0.07	mg/Kg	19-Sep-13	
tert-Amyl Methyl Ether	994-05-8	BD	0.14	mg/Kg	19-Sep-13	
tert-Butyl alcohol	75-65-0	BD	0.72	mg/Kg	19-Sep-13	
Tetrachloroethane, 1,1,1,2-	630-20-6	BD	0.07	mg/Kg	19-Sep-13	
Tetrachloroethane, 1,1,2,2-	79-34-5	BD	0.07	mg/Kg	19-Sep-13	
Tetrachloroethylene	127-18-4	BD	0.07	mg/Kg	19-Sep-13	
Tetrahydrofuran	109-99-9	BD	1.8	mg/Kg	19-Sep-13	
Toluene	108-88-3	BD	0.07	mg/Kg	19-Sep-13	
Trichlorobenzene, 1,2,3-	87-61-6	BD	0.14	mg/Kg	19-Sep-13	
Trichlorobenzene, 1,2,4-	120-82-1	BD	0.14	mg/Kg	19-Sep-13	
Trichlorobenzene, 1,3,5-	108-70-3	BD	0.14	mg/Kg	19-Sep-13	
Trichloroethane, 1,1,1-	71-55-6	BD	0.07	mg/Kg	19-Sep-13	
Trichloroethane, 1,1,2-	79-00-5	BD	0.07	mg/Kg	19-Sep-13	
Trichloroethylene	79-01-6	BD	0.03	mg/Kg	19-Sep-13	
Trichloro 1,1,2-, trifluoro 1,2,2-, ethane	76-13-1	BD	0.14	mg/Kg	19-Sep-13	
Trichlorofluoromethane	75-69-4	BD	0.14	mg/Kg	19-Sep-13	
Trichloromethane	67-66-3	BD	0.07	mg/Kg	19-Sep-13	
Trichloropropane, 1,2,3-	96-18-4	BD	0.07	mg/Kg	19-Sep-13	
Trimethylbenzene, 1,2,4-	95-63-6	BD	0.07	mg/Kg	19-Sep-13	
Trimethylbenzene, 1,3,5-	108-67-8	BD	0.07	mg/Kg	19-Sep-13	
Vinyl chloride	75-01-4	BD	0.29	mg/Kg	19-Sep-13	
Xylenes, m & p-	108-38-3,106-42-3	BD	0.14	mg/Kg	19-Sep-13	
Xylenes, o-	95-47-6	BD	0.07	mg/Kg	19-Sep-13	

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1309052-01 (Soil)

Sampled: 12-Sep-13

Polycyclic Aromatic Hydrocarbons

Analyte	CAS Number	Result	Reporting Limit	Units	Analyzed	Method	Notes
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Acenaphthylene	208-96-8	BD	0.40	mg/Kg	26-Sep-13	8270C	
Anthracene	120-12-7	BD	0.40	mg/Kg	26-Sep-13	8270C	
Benzo(a)anthracene	56-55-3	BD	0.10	mg/Kg	26-Sep-13	8270C	
Benzo(a)pyrene	50-32-8	BD	0.20	mg/Kg	26-Sep-13	8270C	
Benzo(b)fluoranthene	205-99-2	BD	0.10	mg/Kg	26-Sep-13	8270C	
Benzo(g,h,i)perylene	191-24-2	BD	0.40	mg/Kg	26-Sep-13	8270C	
Benzo(k)fluoranthene	207-08-9	BD	0.40	mg/Kg	26-Sep-13	8270C	
Chrysene	218-01-9	BD	0.40	mg/Kg	26-Sep-13	8270C	
Dibenz (a,h) anthracene	53-70-3	BD	0.10	mg/Kg	26-Sep-13	8270C	
Fluoranthene	206-44-0	BD	0.40	mg/Kg	26-Sep-13	8270C	
Fluorene	86-73-7	BD	0.40	mg/Kg	26-Sep-13	8270C	
Indeno(1,2,3-cd)pyrene	193-39-5	BD	0.10	mg/Kg	26-Sep-13	8270C	
Methylnaphthalene, 1-	90-12-0	BD	0.40	mg/Kg	26-Sep-13	8270C	
Methylnaphthalene, 2-	91-57-6	BD	0.40	mg/Kg	26-Sep-13	8270C	
Naphthalene	91-20-3	BD	0.40	mg/Kg	26-Sep-13	8270C	
Phenanthrene	85-01-8	BD	0.40	mg/Kg	26-Sep-13	8270C	
Pyrene	129-00-0	BD	0.40	mg/Kg	26-Sep-13	8270C	

Metals by ICPMS

Analyte	CAS Number	Result	Reporting Limit	Units	Analyzed	Method	Notes
Antimony	7440-36-0	BD	0.9	mg/Kg	22-Sep-13	6020A	
Arsenic	7440-38-2	**2**	0.9	mg/Kg	24-Sep-13	6020A	
Beryllium	7440-41-7	BD	0.9	mg/Kg	24-Sep-13	6020A	
Cadmium	7440-43-9	BD	0.9	mg/Kg	22-Sep-13	6020A	
Chromium	7440-47-3	**4**	0.9	mg/Kg	24-Sep-13	6020A	
Copper	7440-50-8	**5**	0.9	mg/Kg	24-Sep-13	6020A	
Lead	7439-92-1	**2**	0.9	mg/Kg	22-Sep-13	6020A	
Mercury	7439-97-6	BD	0.18	mg/Kg	22-Sep-13	6020A	
Nickel	7440-02-0	**3**	0.9	mg/Kg	24-Sep-13	6020A	
Selenium	7782-49-2	BD	0.9	mg/Kg	22-Sep-13	6020A	
Silver	7440-22-4	BD	0.9	mg/Kg	22-Sep-13	6020A	
Thallium	7440-28-0	BD	0.9	mg/Kg	22-Sep-13	6020A	
Zinc	7440-66-6	**19**	3	mg/Kg	24-Sep-13	6020A	

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Sovereign Consulting, Inc.	Project:	Frank Bean Road - Laconia, NH	
7 Hills Avenue	Project Number:	NH011	**Reported:**
Concord NH, 03301	Project Manager:	Mr. Mark Henderson	26-Sep-13 14:43

SB-108/MW @ 18'-20'
1309052-01 (Soil)

Sampled: 12-Sep-13

% Solids, dry weight

Analyte	CAS Number	Result	Reporting Limit	Units	Analyzed	Method	Notes
% Solids	NA	**84.9**	0.1	[blank]	18-Sep-13	% Calculation	

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Sovereign Consulting, Inc.	Project: Frank Bean Road - Laconia, NH	
7 Hills Avenue	Project Number: NH011	**Reported:**
Concord NH, 03301	Project Manager: Mr. Mark Henderson	26-Sep-13 14:43

SB-109/MW @ 8'-10'
1309052-02 (Soil)

Sampled: 12-Sep-13

Volatile Organic Compounds by EPA 8260B

Analyte	CAS Number	Result	Reporting Limit	Units	Analyzed	Notes
Acetone	67-64-1	BD	1.5	mg/Kg	19-Sep-13	
Benzene	71-43-2	BD	0.02	mg/Kg	19-Sep-13	
Bromobenzene	108-86-1	BD	0.06	mg/Kg	19-Sep-13	
Bromochloromethane	74-97-5	BD	0.06	mg/Kg	19-Sep-13	
Bromodichloromethane	75-27-4	BD	0.06	mg/Kg	19-Sep-13	
Bromoform	75-25-2	BD	0.06	mg/Kg	19-Sep-13	
Bromomethane	74-83-9	BD	0.06	mg/Kg	19-Sep-13	
Butylbenzene, n-	104-51-8	BD	0.06	mg/Kg	19-Sep-13	
Butylbenzene, sec-	135-98-8	BD	0.06	mg/Kg	19-Sep-13	
Butylbenzene, tert-	98-06-6	BD	0.06	mg/Kg	19-Sep-13	
Carbon disulfide	75-15-0	BD	0.25	mg/Kg	19-Sep-13	
Carbon Tetrachloride	56-23-5	BD	0.06	mg/Kg	19-Sep-13	
Chloroethane	75-00-3	BD	0.06	mg/Kg	19-Sep-13	
Chloromethane	74-87-3	BD	0.12	mg/Kg	19-Sep-13	
Chlorotoluene, 2	95-49-8	BD	0.06	mg/Kg	19-Sep-13	
Chlorotoluene, 4	106-43-4	BD	0.06	mg/Kg	19-Sep-13	
Dibromochloromethane	124-48-1	BD	0.06	mg/Kg	19-Sep-13	
Dibromochloropropane	96-12-8	BD	0.12	mg/Kg	19-Sep-13	
Dibromomethane	74-95-3	BD	0.06	mg/Kg	19-Sep-13	
Dichlorobenzene, 1,2-	95-50-1	BD	0.06	mg/Kg	19-Sep-13	
Dichlorobenzene, 1,3-	541-73-1	BD	0.06	mg/Kg	19-Sep-13	
Dichlorobenzene, 1,4-	106-46-7	BD	0.06	mg/Kg	19-Sep-13	
Dichlorodifluoromethane	75-71-8	BD	0.12	mg/Kg	19-Sep-13	
Dichloroethane, 1,1-	75-34-3	BD	0.06	mg/Kg	19-Sep-13	
Dichloroethane, 1,2-	107-06-2	BD	0.06	mg/Kg	19-Sep-13	
Dichloroethylene, 1,1-	75-35-4	BD	0.06	mg/Kg	19-Sep-13	
Dichloroethylene, cis-1,2-	156-59-2	BD	0.06	mg/Kg	19-Sep-13	
Dichloroethylene, trans-1,2-	156-60-5	BD	0.06	mg/Kg	19-Sep-13	
Dichloromethane	75-09-2	BD	0.12	mg/Kg	19-Sep-13	
Dichloropropane, 1,2-	78-87-5	BD	0.06	mg/Kg	19-Sep-13	
Dichloropropane, 1,3-	142-28-9	BD	0.06	mg/Kg	19-Sep-13	
Dichloropropane, 2,2-	594-20-7	BD	0.19	mg/Kg	19-Sep-13	
Dichloropropene, 1,1-	563-58-6	BD	0.06	mg/Kg	19-Sep-13	
Dichloropropene, cis-1,3-	10061-01-5	BD	0.06	mg/Kg	19-Sep-13	
Dichloropropene, trans-1,3-	10061-02-6	BD	0.06	mg/Kg	19-Sep-13	
Diethyl Ether	60-29-7	BD	1.5	mg/Kg	19-Sep-13	
Diisopropyl Ether	108-20-3	BD	0.06	mg/Kg	19-Sep-13	
Ethylbenzene	100-41-4	BD	0.06	mg/Kg	19-Sep-13	
Ethylene dibromide	106-93-4	BD	0.06	mg/Kg	19-Sep-13	
Ethyl tert-Butyl Ether	637-92-3	BD	0.06	mg/Kg	19-Sep-13	

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Sovereign Consulting, Inc.	Project: Frank Bean Road - Laconia, NH	
7 Hills Avenue	Project Number: NH011	**Reported:**
Concord NH, 03301	Project Manager: Mr. Mark Henderson	26-Sep-13 14:43

SB-109/MW @ 8'-10'
1309052-02 (Soil)

Sampled: 12-Sep-13

Volatile Organic Compounds by EPA 8260B

Analyte	CAS Number	Result	Reporting Limit	Units	Analyzed	Notes
Hexachlorobutadiene	87-68-3	BD	0.12	mg/Kg	19-Sep-13	
Isopropylbenzene	98-82-8	BD	0.06	mg/Kg	19-Sep-13	
Isopropyltoluene, p-	99-87-6	BD	0.06	mg/Kg	19-Sep-13	
Methyl Butyl Ketone (2-Hexanone)	591-78-6	BD	1.5	mg/Kg	19-Sep-13	
Methyl Ethyl Ketone (2-Butanone)	78-93-3	BD	1.5	mg/Kg	19-Sep-13	
Methyl Isobutyl Ketone	108-10-1	BD	1.5	mg/Kg	19-Sep-13	
Methyl-tert-Butyl Ether	1634-04-4	BD	0.02	mg/Kg	19-Sep-13	
Monochlorobenzene	108-90-7	BD	0.06	mg/Kg	19-Sep-13	
Naphthalene	91-20-3	BD	0.12	mg/Kg	19-Sep-13	
n-Propylbenzene	103-65-1	BD	0.06	mg/Kg	19-Sep-13	
Styrene	100-42-5	BD	0.06	mg/Kg	19-Sep-13	
tert-Amyl Methyl Ether	994-05-8	BD	0.12	mg/Kg	19-Sep-13	
tert-Butyl alcohol	75-65-0	BD	0.62	mg/Kg	19-Sep-13	
Tetrachloroethane, 1,1,1,2-	630-20-6	BD	0.06	mg/Kg	19-Sep-13	
Tetrachloroethane, 1,1,2,2-	79-34-5	BD	0.06	mg/Kg	19-Sep-13	
Tetrachloroethylene	127-18-4	BD	0.06	mg/Kg	19-Sep-13	
Tetrahydrofuran	109-99-9	BD	1.5	mg/Kg	19-Sep-13	
Toluene	108-88-3	BD	0.06	mg/Kg	19-Sep-13	
Trichlorobenzene, 1,2,3-	87-61-6	BD	0.12	mg/Kg	19-Sep-13	
Trichlorobenzene, 1,2,4-	120-82-1	BD	0.12	mg/Kg	19-Sep-13	
Trichlorobenzene, 1,3,5-	108-70-3	BD	0.12	mg/Kg	19-Sep-13	
Trichloroethane, 1,1,1-	71-55-6	BD	0.06	mg/Kg	19-Sep-13	
Trichloroethane, 1,1,2-	79-00-5	BD	0.06	mg/Kg	19-Sep-13	
Trichloroethylene	79-01-6	BD	0.02	mg/Kg	19-Sep-13	
Trichloro 1,1,2-, trifluoro 1,2,2-, ethane	76-13-1	BD	0.12	mg/Kg	19-Sep-13	
Trichlorofluoromethane	75-69-4	BD	0.12	mg/Kg	19-Sep-13	
Trichloromethane	67-66-3	BD	0.06	mg/Kg	19-Sep-13	
Trichloropropane, 1,2,3-	96-18-4	BD	0.06	mg/Kg	19-Sep-13	
Trimethylbenzene, 1,2,4-	95-63-6	BD	0.06	mg/Kg	19-Sep-13	
Trimethylbenzene, 1,3,5-	108-67-8	BD	0.06	mg/Kg	19-Sep-13	
Vinyl chloride	75-01-4	BD	0.25	mg/Kg	19-Sep-13	
Xylenes, m & p-	108-38-3,106-42-3	BD	0.12	mg/Kg	19-Sep-13	
Xylenes, o-	95-47-6	BD	0.06	mg/Kg	19-Sep-13	

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Sovereign Consulting, Inc.	Project: Frank Bean Road - Laconia, NH	
7 Hills Avenue	Project Number: NH011	**Reported:**
Concord NH, 03301	Project Manager: Mr. Mark Henderson	26-Sep-13 14:43

SB-109/MW @ 8'-10'
1309052-02 (Soil)

Sampled: 12-Sep-13

Polycyclic Aromatic Hydrocarbons

Analyte	CAS Number	Result	Reporting Limit	Units	Analyzed	Method	Notes
Acenaphthene	83-32-9	BD	0.40	mg/Kg	26-Sep-13	8270C	
Acenaphthylene	208-96-8	BD	0.40	mg/Kg	26-Sep-13	8270C	
Anthracene	120-12-7	BD	0.40	mg/Kg	26-Sep-13	8270C	
Benzo(a)anthracene	56-55-3	BD	0.10	mg/Kg	26-Sep-13	8270C	
Benzo(a)pyrene	50-32-8	BD	0.20	mg/Kg	26-Sep-13	8270C	
Benzo(b)fluoranthene	205-99-2	BD	0.10	mg/Kg	26-Sep-13	8270C	
Benzo(g,h,i)perylene	191-24-2	BD	0.40	mg/Kg	26-Sep-13	8270C	
Benzo(k)fluoranthene	207-08-9	BD	0.40	mg/Kg	26-Sep-13	8270C	
Chrysene	218-01-9	BD	0.40	mg/Kg	26-Sep-13	8270C	
Dibenz (a,h) anthracene	53-70-3	BD	0.10	mg/Kg	26-Sep-13	8270C	
Fluoranthene	206-44-0	BD	0.40	mg/Kg	26-Sep-13	8270C	
Fluorene	86-73-7	BD	0.40	mg/Kg	26-Sep-13	8270C	
Indeno(1,2,3-cd)pyrene	193-39-5	BD	0.10	mg/Kg	26-Sep-13	8270C	
Methylnaphthalene, 1-	90-12-0	BD	0.40	mg/Kg	26-Sep-13	8270C	
Methylnaphthalene, 2-	91-57-6	BD	0.40	mg/Kg	26-Sep-13	8270C	
Naphthalene	91-20-3	BD	0.40	mg/Kg	26-Sep-13	8270C	
Phenanthrene	85-01-8	BD	0.40	mg/Kg	26-Sep-13	8270C	
Pyrene	129-00-0	BD	0.40	mg/Kg	26-Sep-13	8270C	

Metals by ICPMS

Analyte	CAS Number	Result	Reporting Limit	Units	Analyzed	Method	Notes
Antimony	7440-36-0	BD	0.8	mg/Kg	22-Sep-13	6020A	
Arsenic	7440-38-2	**2**	0.8	mg/Kg	24-Sep-13	6020A	
Beryllium	7440-41-7	BD	0.8	mg/Kg	24-Sep-13	6020A	
Cadmium	7440-43-9	BD	0.8	mg/Kg	22-Sep-13	6020A	
Chromium	7440-47-3	**6**	0.8	mg/Kg	24-Sep-13	6020A	
Copper	7440-50-8	**7**	0.8	mg/Kg	24-Sep-13	6020A	
Lead	7439-92-1	**4**	0.8	mg/Kg	22-Sep-13	6020A	
Mercury	7439-97-6	BD	0.17	mg/Kg	22-Sep-13	6020A	
Nickel	7440-02-0	**5**	0.8	mg/Kg	24-Sep-13	6020A	
Selenium	7782-49-2	BD	0.8	mg/Kg	22-Sep-13	6020A	
Silver	7440-22-4	BD	0.8	mg/Kg	22-Sep-13	6020A	
Thallium	7440-28-0	BD	0.8	mg/Kg	22-Sep-13	6020A	
Zinc	7440-66-6	**25**	3	mg/Kg	24-Sep-13	6020A	

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Sovereign Consulting, Inc.	Project:	Frank Bean Road - Laconia, NH	
7 Hills Avenue	Project Number:	NH011	**Reported:**
Concord NH, 03301	Project Manager:	Mr. Mark Henderson	26-Sep-13 14:43

SB-109/MW @ 8'-10'
1309052-02 (Soil)

Sampled: 12-Sep-13

% Solids, dry weight

Analyte	CAS Number	Result	Reporting Limit	Units	Analyzed	Method	Notes
% Solids	NA	**90.1**	0.1	[blank]	18-Sep-13	% Calculation	

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Sovereign Consulting, Inc.	Project: Frank Bean Road - Laconia, NH	
7 Hills Avenue	Project Number: NH011	**Reported:**
Concord NH, 03301	Project Manager: Mr. Mark Henderson	26-Sep-13 14:43

SB-110/MW @ 24'-26'
1309052-03 (Soil)

Sampled: 12-Sep-13

Volatile Organic Compounds by EPA 8260B

Analyte	CAS Number	Result	Reporting Limit	Units	Analyzed	Notes
Acetone	67-64-1	BD	1.9	mg/Kg	19-Sep-13	
Benzene	71-43-2	BD	0.03	mg/Kg	19-Sep-13	
Bromobenzene	108-86-1	BD	0.08	mg/Kg	19-Sep-13	
Bromochloromethane	74-97-5	BD	0.08	mg/Kg	19-Sep-13	
Bromodichloromethane	75-27-4	BD	0.08	mg/Kg	19-Sep-13	
Bromoform	75-25-2	BD	0.08	mg/Kg	19-Sep-13	
Bromomethane	74-83-9	BD	0.08	mg/Kg	19-Sep-13	
Butylbenzene, n-	104-51-8	BD	0.08	mg/Kg	19-Sep-13	
Butylbenzene, sec-	135-98-8	BD	0.08	mg/Kg	19-Sep-13	
Butylbenzene, tert-	98-06-6	BD	0.08	mg/Kg	19-Sep-13	
Carbon disulfide	75-15-0	BD	0.30	mg/Kg	19-Sep-13	
Carbon Tetrachloride	56-23-5	BD	0.08	mg/Kg	19-Sep-13	
Chloroethane	75-00-3	BD	0.08	mg/Kg	19-Sep-13	
Chloromethane	74-87-3	BD	0.15	mg/Kg	19-Sep-13	
Chlorotoluene, 2	95-49-8	BD	0.08	mg/Kg	19-Sep-13	
Chlorotoluene, 4	106-43-4	BD	0.08	mg/Kg	19-Sep-13	
Dibromochloromethane	124-48-1	BD	0.08	mg/Kg	19-Sep-13	
Dibromochloropropane	96-12-8	BD	0.15	mg/Kg	19-Sep-13	
Dibromomethane	74-95-3	BD	0.08	mg/Kg	19-Sep-13	
Dichlorobenzene, 1,2-	95-50-1	BD	0.08	mg/Kg	19-Sep-13	
Dichlorobenzene, 1,3-	541-73-1	BD	0.08	mg/Kg	19-Sep-13	
Dichlorobenzene, 1,4-	106-46-7	BD	0.08	mg/Kg	19-Sep-13	
Dichlorodifluoromethane	75-71-8	BD	0.15	mg/Kg	19-Sep-13	
Dichloroethane, 1,1-	75-34-3	BD	0.08	mg/Kg	19-Sep-13	
Dichloroethane, 1,2-	107-06-2	BD	0.08	mg/Kg	19-Sep-13	
Dichloroethylene, 1,1-	75-35-4	BD	0.08	mg/Kg	19-Sep-13	
Dichloroethylene, cis-1,2-	156-59-2	BD	0.08	mg/Kg	19-Sep-13	
Dichloroethylene, trans-1,2-	156-60-5	BD	0.08	mg/Kg	19-Sep-13	
Dichloromethane	75-09-2	BD	0.15	mg/Kg	19-Sep-13	
Dichloropropane, 1,2-	78-87-5	BD	0.08	mg/Kg	19-Sep-13	
Dichloropropane, 1,3-	142-28-9	BD	0.08	mg/Kg	19-Sep-13	
Dichloropropane, 2,2-	594-20-7	BD	0.23	mg/Kg	19-Sep-13	
Dichloropropene, 1,1-	563-58-6	BD	0.08	mg/Kg	19-Sep-13	
Dichloropropene, cis-1,3-	10061-01-5	BD	0.08	mg/Kg	19-Sep-13	
Dichloropropene, trans-1,3-	10061-02-6	BD	0.08	mg/Kg	19-Sep-13	
Diethyl Ether	60-29-7	BD	1.9	mg/Kg	19-Sep-13	
Diisopropyl Ether	108-20-3	BD	0.08	mg/Kg	19-Sep-13	
Ethylbenzene	100-41-4	BD	0.08	mg/Kg	19-Sep-13	
Ethylene dibromide	106-93-4	BD	0.08	mg/Kg	19-Sep-13	
Ethyl tert-Butyl Ether	637-92-3	BD	0.08	mg/Kg	19-Sep-13	

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Sovereign Consulting, Inc.	Project:	Frank Bean Road - Laconia, NH	
7 Hills Avenue	Project Number:	NH011	**Reported:**
Concord NH, 03301	Project Manager:	Mr. Mark Henderson	26-Sep-13 14:43

SB-110/MW @ 24'-26'
1309052-03 (Soil)

Sampled: 12-Sep-13

Volatile Organic Compounds by EPA 8260B

Analyte	CAS Number	Result	Reporting Limit	Units	Analyzed	Notes
Hexachlorobutadiene	87-68-3	BD	0.15	mg/Kg	19-Sep-13	
Isopropylbenzene	98-82-8	BD	0.08	mg/Kg	19-Sep-13	
Isopropyltoluene, p-	99-87-6	BD	0.08	mg/Kg	19-Sep-13	
Methyl Butyl Ketone (2-Hexanone)	591-78-6	BD	1.9	mg/Kg	19-Sep-13	
Methyl Ethyl Ketone (2-Butanone)	78-93-3	BD	1.9	mg/Kg	19-Sep-13	
Methyl Isobutyl Ketone	108-10-1	BD	1.9	mg/Kg	19-Sep-13	
Methyl-tert-Butyl Ether	1634-04-4	BD	0.03	mg/Kg	19-Sep-13	
Monochlorobenzene	108-90-7	BD	0.08	mg/Kg	19-Sep-13	
Naphthalene	91-20-3	BD	0.15	mg/Kg	19-Sep-13	
n-Propylbenzene	103-65-1	BD	0.08	mg/Kg	19-Sep-13	
Styrene	100-42-5	BD	0.08	mg/Kg	19-Sep-13	
tert-Amyl Methyl Ether	994-05-8	BD	0.15	mg/Kg	19-Sep-13	
tert-Butyl alcohol	75-65-0	BD	0.75	mg/Kg	19-Sep-13	
Tetrachloroethane, 1,1,1,2-	630-20-6	BD	0.08	mg/Kg	19-Sep-13	
Tetrachloroethane, 1,1,2,2-	79-34-5	BD	0.08	mg/Kg	19-Sep-13	
Tetrachloroethylene	127-18-4	BD	0.08	mg/Kg	19-Sep-13	
Tetrahydrofuran	109-99-9	BD	1.9	mg/Kg	19-Sep-13	
Toluene	108-88-3	BD	0.08	mg/Kg	19-Sep-13	
Trichlorobenzene, 1,2,3-	87-61-6	BD	0.15	mg/Kg	19-Sep-13	
Trichlorobenzene, 1,2,4-	120-82-1	BD	0.15	mg/Kg	19-Sep-13	
Trichlorobenzene, 1,3,5-	108-70-3	BD	0.15	mg/Kg	19-Sep-13	
Trichloroethane, 1,1,1-	71-55-6	BD	0.08	mg/Kg	19-Sep-13	
Trichloroethane, 1,1,2-	79-00-5	BD	0.08	mg/Kg	19-Sep-13	
Trichloroethylene	79-01-6	BD	0.03	mg/Kg	19-Sep-13	
Trichloro 1,1,2-, trifluoro 1,2,2-, ethane	76-13-1	BD	0.15	mg/Kg	19-Sep-13	
Trichlorofluoromethane	75-69-4	BD	0.15	mg/Kg	19-Sep-13	
Trichloromethane	67-66-3	BD	0.08	mg/Kg	19-Sep-13	
Trichloropropane, 1,2,3-	96-18-4	BD	0.08	mg/Kg	19-Sep-13	
Trimethylbenzene, 1,2,4-	95-63-6	BD	0.08	mg/Kg	19-Sep-13	
Trimethylbenzene, 1,3,5-	108-67-8	BD	0.08	mg/Kg	19-Sep-13	
Vinyl chloride	75-01-4	BD	0.30	mg/Kg	19-Sep-13	
Xylenes, m & p-	108-38-3,106-42-3	BD	0.15	mg/Kg	19-Sep-13	
Xylenes, o-	95-47-6	BD	0.08	mg/Kg	19-Sep-13	

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Sovereign Consulting, Inc.	Project: Frank Bean Road - Laconia, NH	
7 Hills Avenue	Project Number: NH011	**Reported:**
Concord NH, 03301	Project Manager: Mr. Mark Henderson	26-Sep-13 14:43

SB-110/MW @ 24'-26'
1309052-03 (Soil)

Sampled: 12-Sep-13

Polycyclic Aromatic Hydrocarbons

Analyte	CAS Number	Result	Reporting Limit	Units	Analyzed	Method	Notes
Acenaphthene	83-32-9	BD	0.40	mg/Kg	26-Sep-13	8270C	
Acenaphthylene	208-96-8	BD	0.40	mg/Kg	26-Sep-13	8270C	
Anthracene	120-12-7	BD	0.40	mg/Kg	26-Sep-13	8270C	
Benzo(a)anthracene	56-55-3	BD	0.10	mg/Kg	26-Sep-13	8270C	
Benzo(a)pyrene	50-32-8	BD	0.20	mg/Kg	26-Sep-13	8270C	
Benzo(b)fluoranthene	205-99-2	BD	0.10	mg/Kg	26-Sep-13	8270C	
Benzo(g,h,i)perylene	191-24-2	BD	0.40	mg/Kg	26-Sep-13	8270C	
Benzo(k)fluoranthene	207-08-9	BD	0.40	mg/Kg	26-Sep-13	8270C	
Chrysene	218-01-9	BD	0.40	mg/Kg	26-Sep-13	8270C	
Dibenz (a,h) anthracene	53-70-3	BD	0.10	mg/Kg	26-Sep-13	8270C	
Fluoranthene	206-44-0	BD	0.40	mg/Kg	26-Sep-13	8270C	
Fluorene	86-73-7	BD	0.40	mg/Kg	26-Sep-13	8270C	
Indeno(1,2,3-cd)pyrene	193-39-5	BD	0.10	mg/Kg	26-Sep-13	8270C	
Methylnaphthalene, 1-	90-12-0	BD	0.40	mg/Kg	26-Sep-13	8270C	
Methylnaphthalene, 2-	91-57-6	BD	0.40	mg/Kg	26-Sep-13	8270C	
Naphthalene	91-20-3	BD	0.40	mg/Kg	26-Sep-13	8270C	
Phenanthrene	85-01-8	BD	0.40	mg/Kg	26-Sep-13	8270C	
Pyrene	129-00-0	BD	0.40	mg/Kg	26-Sep-13	8270C	

Metals by ICPMS

Analyte	CAS Number	Result	Reporting Limit	Units	Analyzed	Method	Notes
Antimony	7440-36-0	BD	0.9	mg/Kg	22-Sep-13	6020A	
Arsenic	7440-38-2	**3**	0.9	mg/Kg	24-Sep-13	6020A	
Beryllium	7440-41-7	BD	0.9	mg/Kg	24-Sep-13	6020A	
Cadmium	7440-43-9	BD	0.9	mg/Kg	22-Sep-13	6020A	
Chromium	7440-47-3	**4**	0.9	mg/Kg	24-Sep-13	6020A	
Copper	7440-50-8	**4**	0.9	mg/Kg	24-Sep-13	6020A	
Lead	7439-92-1	**4**	0.9	mg/Kg	22-Sep-13	6020A	
Mercury	7439-97-6	BD	0.18	mg/Kg	22-Sep-13	6020A	
Nickel	7440-02-0	**3**	0.9	mg/Kg	24-Sep-13	6020A	
Selenium	7782-49-2	BD	0.9	mg/Kg	22-Sep-13	6020A	
Silver	7440-22-4	BD	0.9	mg/Kg	22-Sep-13	6020A	
Thallium	7440-28-0	BD	0.9	mg/Kg	22-Sep-13	6020A	
Zinc	7440-66-6	**23**	3	mg/Kg	24-Sep-13	6020A	

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Aquarian Analytical, Inc.
Laboratory Services
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Sovereign Consulting, Inc.	Project: Frank Bean Road - Laconia, NH	
7 Hills Avenue	Project Number: NH011	**Reported:**
Concord NH, 03301	Project Manager: Mr. Mark Henderson	26-Sep-13 14:43

SB-110/MW @ 24'-26'
1309052-03 (Soil)

Sampled: 12-Sep-13

% Solids, dry weight

Analyte	CAS Number	Result	Reporting Limit	Units	Analyzed	Method	Notes
% Solids	NA	**79.7**	0.1	[blank]	18-Sep-13	% Calculation	

Notes and Definitions

BD Analyte result below the laboratory reporting limit

NR Not Reported

Soil sample results reported on a dry weight basis.

The reporting limit is the lowest level at which reliable quantitation has been demonstrated.

Analytes in **bold** are values reported above the reporting limit.

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E-Mail: aquarianlab@comcast.net

Turnaround Requirements (check one)

RUSH SAMPLES NEED PRIOR APPROVAL

____ Same Day Turnaround (150% upcharge)
____ One Day Turnaround (100% upcharge)
____ Two Day Turnaround (50% upcharge)
____ Three Day Turnaround (25% upcharge)
X Normal turnaround

Project Information

Project #:	NH011	Project Manager:	Mark Henderson
Project Name:	Frank Bean Rd.	Report to:	Sovereign Consulting
Town/Site:	Laconia, NH	Invoice to:	Sovereign Consulting
Sampler:	Dylan Bush	Phone:	603-856-8644
Company:	Sovereign Consulting	E-Mail:	mhenderson@sovcon.com
BID Reference:			

Sample Information / VOC's-SVOC's / TPH / Metals / TCLP / Other (list)

AAI Work Order #	Sample ID	Sample Collection Time 9.12.13	Sample Matrix	Number of Containers	NELAC Qc Y N	EPA 8260 w / oxygenates	BTEX / MTBE	BTEX+MTBE+Naphthalene	Chlorinated only	EPA 524.2 Drinking Water	EDB	1,4 Dioxane	EPA 8270 A-B/N	EPA 8270 PAH	EPA 8015M Gasoline	EPA 8100M Fuel Oil	Fingerprint	RCRA 8	Field Filtered:	Lab Filtered:	Total: 13 PP METALS	Zero Headspace Extraction (ZHE)	TCLP Pesticides	TCLP Herbicides	TCLP Metals	PCB	EPA SW846-7 Reactivity	EPA 1010 Flashpoint / Ignitab	EPA 150.1 / 9045 pH	Alkalinity	Nitrate	Sulfate	Chloride	NH DES Full LIST
1309052-01	SB-108/MW @ 18'-20'	8:46	S	2		X								X							X													
-02	SB-109/MW @ 8'-10'	16:05	↓	↓		X								X							X													
-03	SB-110/MW @ 24'-26'	16:10	↓	↓		X								X							X													

Relinquished by: [signature]	Date: 9.12.13 Time: 16:40	Received by: SOVCON REFRIGERATOR
Relinquished by: Refridgerator	Date: 9-17-2013 Time: 845	Received by: [signature]
Relinquished by:	Date: Time:	Received by:

Notes:
* Samples kept on ice during transport

Temperature 4 °C
Is this N.H. "ODD Fund" related? Y____ N ✓

Aquarian Analytical will subcontract those tests we do not perform with your prior approval

Please keep samples on ice from the time of collection

Aquarian Analytical, Inc.
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26 September 2013

Mr. Mark Henderson
Sovereign Consulting, Inc.
7 Hills Avenue
Concord, NH 03301

RE: Frank Bean Road - Laconia, NH

Dear Mr. Henderson:

Enclosed are the results of analyses for the following samples, which were received at 4 c.

Laboratory ID	Sample ID	Sample matrix	Date sampled	Date received
1309053-01	**SB-119/MW @ 30'-32'**	Soil	16-Sep-13 15:18	17-Sep-13 08:45
1309053-02	**SB-118/MW @ 50'-52'**	Soil	16-Sep-13 15:22	17-Sep-13 08:45
1309053-03	**SB-120/MW @ 45'-47'**	Soil	16-Sep-13 18:22	17-Sep-13 08:45

The results in this report relate only to the submitted samples. Please refer to our website listed above for a list of accredited parameters. If you have any questions concerning this report, please feel free to contact me.

Jim Sherburne For Alan G. Naber
Laboratory Director

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Sovereign Consulting, Inc.	Project: Frank Bean Road - Laconia, NH	
7 Hills Avenue	Project Number: NH011	**Reported:**
Concord NH, 03301	Project Manager: Mr. Mark Henderson	26-Sep-13 14:49

SB-119/MW @ 30'-32'
1309053-01 (Soil)

Sampled: 16-Sep-13

Volatile Organic Compounds by EPA 8260B

Analyte	CAS Number	Result	Reporting Limit	Units	Analyzed	Notes
Acetone	67-64-1	BD	1.9	mg/Kg	19-Sep-13	
Benzene	71-43-2	BD	0.03	mg/Kg	19-Sep-13	
Bromobenzene	108-86-1	BD	0.07	mg/Kg	19-Sep-13	
Bromochloromethane	74-97-5	BD	0.07	mg/Kg	19-Sep-13	
Bromodichloromethane	75-27-4	BD	0.07	mg/Kg	19-Sep-13	
Bromoform	75-25-2	BD	0.07	mg/Kg	19-Sep-13	
Bromomethane	74-83-9	BD	0.07	mg/Kg	19-Sep-13	
Butylbenzene, n-	104-51-8	BD	0.07	mg/Kg	19-Sep-13	
Butylbenzene, sec-	135-98-8	BD	0.07	mg/Kg	19-Sep-13	
Butylbenzene, tert-	98-06-6	BD	0.07	mg/Kg	19-Sep-13	
Carbon disulfide	75-15-0	BD	0.30	mg/Kg	19-Sep-13	
Carbon Tetrachloride	56-23-5	BD	0.07	mg/Kg	19-Sep-13	
Chloroethane	75-00-3	BD	0.07	mg/Kg	19-Sep-13	
Chloromethane	74-87-3	BD	0.15	mg/Kg	19-Sep-13	
Chlorotoluene, 2	95-49-8	BD	0.07	mg/Kg	19-Sep-13	
Chlorotoluene, 4	106-43-4	BD	0.07	mg/Kg	19-Sep-13	
Dibromochloromethane	124-48-1	BD	0.07	mg/Kg	19-Sep-13	
Dibromochloropropane	96-12-8	BD	0.15	mg/Kg	19-Sep-13	
Dibromomethane	74-95-3	BD	0.07	mg/Kg	19-Sep-13	
Dichlorobenzene, 1,2-	95-50-1	BD	0.07	mg/Kg	19-Sep-13	
Dichlorobenzene, 1,3-	541-73-1	BD	0.07	mg/Kg	19-Sep-13	
Dichlorobenzene, 1,4-	106-46-7	BD	0.07	mg/Kg	19-Sep-13	
Dichlorodifluoromethane	75-71-8	BD	0.15	mg/Kg	19-Sep-13	
Dichloroethane, 1,1-	75-34-3	BD	0.07	mg/Kg	19-Sep-13	
Dichloroethane, 1,2-	107-06-2	BD	0.07	mg/Kg	19-Sep-13	
Dichloroethylene, 1,1-	75-35-4	BD	0.07	mg/Kg	19-Sep-13	
Dichloroethylene, cis-1,2-	156-59-2	BD	0.07	mg/Kg	19-Sep-13	
Dichloroethylene, trans-1,2-	156-60-5	BD	0.07	mg/Kg	19-Sep-13	
Dichloromethane	75-09-2	BD	0.15	mg/Kg	19-Sep-13	
Dichloropropane, 1,2-	78-87-5	BD	0.07	mg/Kg	19-Sep-13	
Dichloropropane, 1,3-	142-28-9	BD	0.07	mg/Kg	19-Sep-13	
Dichloropropane, 2,2-	594-20-7	BD	0.22	mg/Kg	19-Sep-13	
Dichloropropene, 1,1-	563-58-6	BD	0.07	mg/Kg	19-Sep-13	
Dichloropropene, cis-1,3-	10061-01-5	BD	0.07	mg/Kg	19-Sep-13	
Dichloropropene, trans-1,3-	10061-02-6	BD	0.07	mg/Kg	19-Sep-13	
Diethyl Ether	60-29-7	BD	1.9	mg/Kg	19-Sep-13	
Diisopropyl Ether	108-20-3	BD	0.07	mg/Kg	19-Sep-13	
Ethylbenzene	100-41-4	BD	0.07	mg/Kg	19-Sep-13	
Ethylene dibromide	106-93-4	BD	0.07	mg/Kg	19-Sep-13	
Ethyl tert-Butyl Ether	637-92-3	BD	0.07	mg/Kg	19-Sep-13	

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Sovereign Consulting, Inc.	Project: Frank Bean Road - Laconia, NH	
7 Hills Avenue	Project Number: NH011	**Reported:**
Concord NH, 03301	Project Manager: Mr. Mark Henderson	26-Sep-13 14:49

SB-119/MW @ 30'-32'
1309053-01 (Soil)

Sampled: 16-Sep-13

Volatile Organic Compounds by EPA 8260B

Analyte	CAS Number	Result	Reporting Limit	Units	Analyzed	Notes
Hexachlorobutadiene	87-68-3	BD	0.15	mg/Kg	19-Sep-13	
Isopropylbenzene	98-82-8	BD	0.07	mg/Kg	19-Sep-13	
Isopropyltoluene, p-	99-87-6	BD	0.07	mg/Kg	19-Sep-13	
Methyl Butyl Ketone (2-Hexanone)	591-78-6	BD	1.9	mg/Kg	19-Sep-13	
Methyl Ethyl Ketone (2-Butanone)	78-93-3	BD	1.9	mg/Kg	19-Sep-13	
Methyl Isobutyl Ketone	108-10-1	BD	1.9	mg/Kg	19-Sep-13	
Methyl-tert-Butyl Ether	1634-04-4	BD	0.03	mg/Kg	19-Sep-13	
Monochlorobenzene	108-90-7	BD	0.07	mg/Kg	19-Sep-13	
Naphthalene	91-20-3	BD	0.15	mg/Kg	19-Sep-13	
n-Propylbenzene	103-65-1	BD	0.07	mg/Kg	19-Sep-13	
Styrene	100-42-5	BD	0.07	mg/Kg	19-Sep-13	
tert-Amyl Methyl Ether	994-05-8	BD	0.15	mg/Kg	19-Sep-13	
tert-Butyl alcohol	75-65-0	BD	0.75	mg/Kg	19-Sep-13	
Tetrachloroethane, 1,1,1,2-	630-20-6	BD	0.07	mg/Kg	19-Sep-13	
Tetrachloroethane, 1,1,2,2-	79-34-5	BD	0.07	mg/Kg	19-Sep-13	
Tetrachloroethylene	127-18-4	BD	0.07	mg/Kg	19-Sep-13	
Tetrahydrofuran	109-99-9	BD	1.9	mg/Kg	19-Sep-13	
Toluene	108-88-3	BD	0.07	mg/Kg	19-Sep-13	
Trichlorobenzene, 1,2,3-	87-61-6	BD	0.15	mg/Kg	19-Sep-13	
Trichlorobenzene, 1,2,4-	120-82-1	BD	0.15	mg/Kg	19-Sep-13	
Trichlorobenzene, 1,3,5-	108-70-3	BD	0.15	mg/Kg	19-Sep-13	
Trichloroethane, 1,1,1-	71-55-6	BD	0.07	mg/Kg	19-Sep-13	
Trichloroethane, 1,1,2-	79-00-5	BD	0.07	mg/Kg	19-Sep-13	
Trichloroethylene	79-01-6	BD	0.03	mg/Kg	19-Sep-13	
Trichloro 1,1,2-, trifluoro 1,2,2-, ethane	76-13-1	BD	0.15	mg/Kg	19-Sep-13	
Trichlorofluoromethane	75-69-4	BD	0.15	mg/Kg	19-Sep-13	
Trichloromethane	67-66-3	BD	0.07	mg/Kg	19-Sep-13	
Trichloropropane, 1,2,3-	96-18-4	BD	0.07	mg/Kg	19-Sep-13	
Trimethylbenzene, 1,2,4-	95-63-6	BD	0.07	mg/Kg	19-Sep-13	
Trimethylbenzene, 1,3,5-	108-67-8	BD	0.07	mg/Kg	19-Sep-13	
Vinyl chloride	75-01-4	BD	0.30	mg/Kg	19-Sep-13	
Xylenes, m & p-	108-38-3,106-42-3	BD	0.15	mg/Kg	19-Sep-13	
Xylenes, o-	95-47-6	BD	0.07	mg/Kg	19-Sep-13	

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Sovereign Consulting, Inc.	Project: Frank Bean Road - Laconia, NH	
7 Hills Avenue	Project Number: NH011	**Reported:**
Concord NH, 03301	Project Manager: Mr. Mark Henderson	26-Sep-13 14:49

SB-119/MW @ 30'-32'
1309053-01 (Soil)

Sampled: 16-Sep-13

Polycyclic Aromatic Hydrocarbons

Analyte	CAS Number	Result	Reporting Limit	Units	Analyzed	Method	Notes
Acenaphthene	83-32-9	BD	0.40	mg/Kg	26-Sep-13	8270C	
Acenaphthylene	208-96-8	BD	0.40	mg/Kg	26-Sep-13	8270C	
Anthracene	120-12-7	BD	0.40	mg/Kg	26-Sep-13	8270C	
Benzo(a)anthracene	56-55-3	BD	0.10	mg/Kg	26-Sep-13	8270C	
Benzo(a)pyrene	50-32-8	BD	0.20	mg/Kg	26-Sep-13	8270C	
Benzo(b)fluoranthene	205-99-2	BD	0.10	mg/Kg	26-Sep-13	8270C	
Benzo(g,h,i)perylene	191-24-2	BD	0.40	mg/Kg	26-Sep-13	8270C	
Benzo(k)fluoranthene	207-08-9	BD	0.40	mg/Kg	26-Sep-13	8270C	
Chrysene	218-01-9	BD	0.40	mg/Kg	26-Sep-13	8270C	
Dibenz (a,h) anthracene	53-70-3	BD	0.10	mg/Kg	26-Sep-13	8270C	
Fluoranthene	206-44-0	BD	0.40	mg/Kg	26-Sep-13	8270C	
Fluorene	86-73-7	BD	0.40	mg/Kg	26-Sep-13	8270C	
Indeno(1,2,3-cd)pyrene	193-39-5	BD	0.10	mg/Kg	26-Sep-13	8270C	
Methylnaphthalene, 1-	90-12-0	BD	0.40	mg/Kg	26-Sep-13	8270C	
Methylnaphthalene, 2-	91-57-6	BD	0.40	mg/Kg	26-Sep-13	8270C	
Naphthalene	91-20-3	BD	0.40	mg/Kg	26-Sep-13	8270C	
Phenanthrene	85-01-8	BD	0.40	mg/Kg	26-Sep-13	8270C	
Pyrene	129-00-0	BD	0.40	mg/Kg	26-Sep-13	8270C	

Metals by ICPMS

Analyte	CAS Number	Result	Reporting Limit	Units	Analyzed	Method	Notes
Antimony	7440-36-0	BD	0.8	mg/Kg	22-Sep-13	6020A	
Arsenic	7440-38-2	**1**	0.8	mg/Kg	24-Sep-13	6020A	
Beryllium	7440-41-7	BD	0.8	mg/Kg	24-Sep-13	6020A	
Cadmium	7440-43-9	BD	0.8	mg/Kg	22-Sep-13	6020A	
Chromium	7440-47-3	**4**	0.8	mg/Kg	24-Sep-13	6020A	
Copper	7440-50-8	**4**	0.8	mg/Kg	24-Sep-13	6020A	
Lead	7439-92-1	**2**	0.8	mg/Kg	22-Sep-13	6020A	
Mercury	7439-97-6	BD	0.16	mg/Kg	22-Sep-13	6020A	
Nickel	7440-02-0	**3**	0.8	mg/Kg	24-Sep-13	6020A	
Selenium	7782-49-2	BD	0.8	mg/Kg	22-Sep-13	6020A	
Silver	7440-22-4	BD	0.8	mg/Kg	22-Sep-13	6020A	
Thallium	7440-28-0	BD	0.8	mg/Kg	22-Sep-13	6020A	
Zinc	7440-66-6	**36**	2	mg/Kg	24-Sep-13	6020A	

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Sovereign Consulting, Inc.	Project:	Frank Bean Road - Laconia, NH	
7 Hills Avenue	Project Number:	NH011	**Reported:**
Concord NH, 03301	Project Manager:	Mr. Mark Henderson	26-Sep-13 14:49

SB-119/MW @ 30'-32'
1309053-01 (Soil)

Sampled: 16-Sep-13

% Solids, dry weight

Analyte	CAS Number	Result	Reporting Limit	Units	Analyzed	Method	Notes
% Solids	NA	**86.3**	0.1	[blank]	18-Sep-13	% Calculation	

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Sovereign Consulting, Inc.	Project: Frank Bean Road - Laconia, NH	
7 Hills Avenue	Project Number: NH011	**Reported:**
Concord NH, 03301	Project Manager: Mr. Mark Henderson	26-Sep-13 14:49

SB-118/MW @ 50'-52'
1309053-02 (Soil)

Sampled: 16-Sep-13

Volatile Organic Compounds by EPA 8260B

Analyte	CAS Number	Result	Reporting Limit	Units	Analyzed	Notes
Acetone	67-64-1	BD	1.5	mg/Kg	19-Sep-13	
Benzene	71-43-2	BD	0.02	mg/Kg	19-Sep-13	
Bromobenzene	108-86-1	BD	0.06	mg/Kg	19-Sep-13	
Bromochloromethane	74-97-5	BD	0.06	mg/Kg	19-Sep-13	
Bromodichloromethane	75-27-4	BD	0.06	mg/Kg	19-Sep-13	
Bromoform	75-25-2	BD	0.06	mg/Kg	19-Sep-13	
Bromomethane	74-83-9	BD	0.06	mg/Kg	19-Sep-13	
Butylbenzene, n-	104-51-8	BD	0.06	mg/Kg	19-Sep-13	
Butylbenzene, sec-	135-98-8	BD	0.06	mg/Kg	19-Sep-13	
Butylbenzene, tert-	98-06-6	BD	0.06	mg/Kg	19-Sep-13	
Carbon disulfide	75-15-0	BD	0.24	mg/Kg	19-Sep-13	
Carbon Tetrachloride	56-23-5	BD	0.06	mg/Kg	19-Sep-13	
Chloroethane	75-00-3	BD	0.06	mg/Kg	19-Sep-13	
Chloromethane	74-87-3	BD	0.12	mg/Kg	19-Sep-13	
Chlorotoluene, 2	95-49-8	BD	0.06	mg/Kg	19-Sep-13	
Chlorotoluene, 4	106-43-4	BD	0.06	mg/Kg	19-Sep-13	
Dibromochloromethane	124-48-1	BD	0.06	mg/Kg	19-Sep-13	
Dibromochloropropane	96-12-8	BD	0.12	mg/Kg	19-Sep-13	
Dibromomethane	74-95-3	BD	0.06	mg/Kg	19-Sep-13	
Dichlorobenzene, 1,2-	95-50-1	BD	0.06	mg/Kg	19-Sep-13	
Dichlorobenzene, 1,3-	541-73-1	BD	0.06	mg/Kg	19-Sep-13	
Dichlorobenzene, 1,4-	106-46-7	BD	0.06	mg/Kg	19-Sep-13	
Dichlorodifluoromethane	75-71-8	BD	0.12	mg/Kg	19-Sep-13	
Dichloroethane, 1,1-	75-34-3	BD	0.06	mg/Kg	19-Sep-13	
Dichloroethane, 1,2-	107-06-2	BD	0.06	mg/Kg	19-Sep-13	
Dichloroethylene, 1,1-	75-35-4	BD	0.06	mg/Kg	19-Sep-13	
Dichloroethylene, cis-1,2-	156-59-2	BD	0.06	mg/Kg	19-Sep-13	
Dichloroethylene, trans-1,2-	156-60-5	BD	0.06	mg/Kg	19-Sep-13	
Dichloromethane	75-09-2	BD	0.12	mg/Kg	19-Sep-13	
Dichloropropane, 1,2-	78-87-5	BD	0.06	mg/Kg	19-Sep-13	
Dichloropropane, 1,3-	142-28-9	BD	0.06	mg/Kg	19-Sep-13	
Dichloropropane, 2,2-	594-20-7	BD	0.18	mg/Kg	19-Sep-13	
Dichloropropene, 1,1-	563-58-6	BD	0.06	mg/Kg	19-Sep-13	
Dichloropropene, cis-1,3-	10061-01-5	BD	0.06	mg/Kg	19-Sep-13	
Dichloropropene, trans-1,3-	10061-02-6	BD	0.06	mg/Kg	19-Sep-13	
Diethyl Ether	60-29-7	BD	1.5	mg/Kg	19-Sep-13	
Diisopropyl Ether	108-20-3	BD	0.06	mg/Kg	19-Sep-13	
Ethylbenzene	100-41-4	BD	0.06	mg/Kg	19-Sep-13	
Ethylene dibromide	106-93-4	BD	0.06	mg/Kg	19-Sep-13	
Ethyl tert-Butyl Ether	637-92-3	BD	0.06	mg/Kg	19-Sep-13	

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Laboratory Services
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Sovereign Consulting, Inc.	Project:	Frank Bean Road - Laconia, NH	
7 Hills Avenue	Project Number:	NH011	**Reported:**
Concord NH, 03301	Project Manager:	Mr. Mark Henderson	26-Sep-13 14:49

SB-118/MW @ 50'-52'
1309053-02 (Soil)

Sampled: 16-Sep-13

Volatile Organic Compounds by EPA 8260B

Analyte	CAS Number	Result	Reporting Limit	Units	Analyzed	Notes
Hexachlorobutadiene	87-68-3	BD	0.12	mg/Kg	19-Sep-13	
Isopropylbenzene	98-82-8	BD	0.06	mg/Kg	19-Sep-13	
Isopropyltoluene, p-	99-87-6	BD	0.06	mg/Kg	19-Sep-13	
Methyl Butyl Ketone (2-Hexanone)	591-78-6	BD	1.5	mg/Kg	19-Sep-13	
Methyl Ethyl Ketone (2-Butanone)	78-93-3	BD	1.5	mg/Kg	19-Sep-13	
Methyl Isobutyl Ketone	108-10-1	BD	1.5	mg/Kg	19-Sep-13	
Methyl-tert-Butyl Ether	1634-04-4	BD	0.02	mg/Kg	19-Sep-13	
Monochlorobenzene	108-90-7	BD	0.06	mg/Kg	19-Sep-13	
Naphthalene	91-20-3	BD	0.12	mg/Kg	19-Sep-13	
n-Propylbenzene	103-65-1	BD	0.06	mg/Kg	19-Sep-13	
Styrene	100-42-5	BD	0.06	mg/Kg	19-Sep-13	
tert-Amyl Methyl Ether	994-05-8	BD	0.12	mg/Kg	19-Sep-13	
tert-Butyl alcohol	75-65-0	BD	0.61	mg/Kg	19-Sep-13	
Tetrachloroethane, 1,1,1,2-	630-20-6	BD	0.06	mg/Kg	19-Sep-13	
Tetrachloroethane, 1,1,2,2-	79-34-5	BD	0.06	mg/Kg	19-Sep-13	
Tetrachloroethylene	127-18-4	BD	0.06	mg/Kg	19-Sep-13	
Tetrahydrofuran	109-99-9	BD	1.5	mg/Kg	19-Sep-13	
Toluene	108-88-3	BD	0.06	mg/Kg	19-Sep-13	
Trichlorobenzene, 1,2,3-	87-61-6	BD	0.12	mg/Kg	19-Sep-13	
Trichlorobenzene, 1,2,4-	120-82-1	BD	0.12	mg/Kg	19-Sep-13	
Trichlorobenzene, 1,3,5-	108-70-3	BD	0.12	mg/Kg	19-Sep-13	
Trichloroethane, 1,1,1-	71-55-6	BD	0.06	mg/Kg	19-Sep-13	
Trichloroethane, 1,1,2-	79-00-5	BD	0.06	mg/Kg	19-Sep-13	
Trichloroethylene	79-01-6	BD	0.02	mg/Kg	19-Sep-13	
Trichloro 1,1,2-, trifluoro 1,2,2-, ethane	76-13-1	BD	0.12	mg/Kg	19-Sep-13	
Trichlorofluoromethane	75-69-4	BD	0.12	mg/Kg	19-Sep-13	
Trichloromethane	67-66-3	BD	0.06	mg/Kg	19-Sep-13	
Trichloropropane, 1,2,3-	96-18-4	BD	0.06	mg/Kg	19-Sep-13	
Trimethylbenzene, 1,2,4-	95-63-6	BD	0.06	mg/Kg	19-Sep-13	
Trimethylbenzene, 1,3,5-	108-67-8	BD	0.06	mg/Kg	19-Sep-13	
Vinyl chloride	75-01-4	BD	0.24	mg/Kg	19-Sep-13	
Xylenes, m & p-	108-38-3,106-42-3	BD	0.12	mg/Kg	19-Sep-13	
Xylenes, o-	95-47-6	BD	0.06	mg/Kg	19-Sep-13	

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Sovereign Consulting, Inc.	Project: Frank Bean Road - Laconia, NH	
7 Hills Avenue	Project Number: NH011	**Reported:**
Concord NH, 03301	Project Manager: Mr. Mark Henderson	26-Sep-13 14:49

SB-118/MW @ 50'-52'
1309053-02 (Soil)

Sampled: 16-Sep-13

Polycyclic Aromatic Hydrocarbons

Analyte	CAS Number	Result	Reporting Limit	Units	Analyzed	Method	Notes
Acenaphthene	83-32-9	BD	0.40	mg/Kg	26-Sep-13	8270C	
Acenaphthylene	208-96-8	BD	0.40	mg/Kg	26-Sep-13	8270C	Surr
Anthracene	120-12-7	BD	0.40	mg/Kg	26-Sep-13	8270C	
Benzo(a)anthracene	56-55-3	BD	0.10	mg/Kg	26-Sep-13	8270C	
Benzo(a)pyrene	50-32-8	BD	0.20	mg/Kg	26-Sep-13	8270C	
Benzo(b)fluoranthene	205-99-2	BD	0.10	mg/Kg	26-Sep-13	8270C	
Benzo(g,h,i)perylene	191-24-2	BD	0.40	mg/Kg	26-Sep-13	8270C	
Benzo(k)fluoranthene	207-08-9	BD	0.40	mg/Kg	26-Sep-13	8270C	
Chrysene	218-01-9	BD	0.40	mg/Kg	26-Sep-13	8270C	
Dibenz (a,h) anthracene	53-70-3	BD	0.10	mg/Kg	26-Sep-13	8270C	
Fluoranthene	206-44-0	BD	0.40	mg/Kg	26-Sep-13	8270C	
Fluorene	86-73-7	BD	0.40	mg/Kg	26-Sep-13	8270C	
Indeno(1,2,3-cd)pyrene	193-39-5	BD	0.10	mg/Kg	26-Sep-13	8270C	
Methylnaphthalene, 1-	90-12-0	BD	0.40	mg/Kg	26-Sep-13	8270C	Surr
Methylnaphthalene, 2-	91-57-6	BD	0.40	mg/Kg	26-Sep-13	8270C	Surr
Naphthalene	91-20-3	BD	0.40	mg/Kg	26-Sep-13	8270C	Surr
Phenanthrene	85-01-8	BD	0.40	mg/Kg	26-Sep-13	8270C	
Pyrene	129-00-0	BD	0.40	mg/Kg	26-Sep-13	8270C	

Metals by ICPMS

Analyte	CAS Number	Result	Reporting Limit	Units	Analyzed	Method	Notes
Antimony	7440-36-0	BD	0.7	mg/Kg	22-Sep-13	6020A	
Arsenic	7440-38-2	**2**	0.7	mg/Kg	24-Sep-13	6020A	
Beryllium	7440-41-7	BD	0.7	mg/Kg	24-Sep-13	6020A	
Cadmium	7440-43-9	BD	0.7	mg/Kg	22-Sep-13	6020A	
Chromium	7440-47-3	**9**	0.7	mg/Kg	24-Sep-13	6020A	
Copper	7440-50-8	**8**	0.7	mg/Kg	24-Sep-13	6020A	
Lead	7439-92-1	**3**	0.7	mg/Kg	22-Sep-13	6020A	
Mercury	7439-97-6	BD	0.15	mg/Kg	22-Sep-13	6020A	
Nickel	7440-02-0	**7**	0.7	mg/Kg	24-Sep-13	6020A	
Selenium	7782-49-2	BD	0.7	mg/Kg	22-Sep-13	6020A	
Silver	7440-22-4	BD	0.7	mg/Kg	22-Sep-13	6020A	
Thallium	7440-28-0	BD	0.7	mg/Kg	22-Sep-13	6020A	
Zinc	7440-66-6	**30**	2	mg/Kg	24-Sep-13	6020A	

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Sovereign Consulting, Inc.	Project:	Frank Bean Road - Laconia, NH	
7 Hills Avenue	Project Number:	NH011	**Reported:**
Concord NH, 03301	Project Manager:	Mr. Mark Henderson	26-Sep-13 14:49

SB-118/MW @ 50'-52'
1309053-02 (Soil)

Sampled: 16-Sep-13

% Solids, dry weight

Analyte	CAS Number	Result	Reporting Limit	Units	Analyzed	Method	Notes
% Solids	NA	**90.8**	0.1	[blank]	18-Sep-13	% Calculation	

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Sovereign Consulting, Inc.	Project: Frank Bean Road - Laconia, NH	
7 Hills Avenue	Project Number: NH011	**Reported:**
Concord NH, 03301	Project Manager: Mr. Mark Henderson	26-Sep-13 14:49

SB-120/MW @ 45'-47'
1309053-03 (Soil)

Sampled: 16-Sep-13

Volatile Organic Compounds by EPA 8260B

Analyte	CAS Number	Result	Reporting Limit	Units	Analyzed	Notes
Acetone	67-64-1	BD	1.7	mg/Kg	19-Sep-13	
Benzene	71-43-2	BD	0.03	mg/Kg	19-Sep-13	
Bromobenzene	108-86-1	BD	0.07	mg/Kg	19-Sep-13	
Bromochloromethane	74-97-5	BD	0.07	mg/Kg	19-Sep-13	
Bromodichloromethane	75-27-4	BD	0.07	mg/Kg	19-Sep-13	
Bromoform	75-25-2	BD	0.07	mg/Kg	19-Sep-13	
Bromomethane	74-83-9	BD	0.07	mg/Kg	19-Sep-13	
Butylbenzene, n-	104-51-8	BD	0.07	mg/Kg	19-Sep-13	
Butylbenzene, sec-	135-98-8	BD	0.07	mg/Kg	19-Sep-13	
Butylbenzene, tert-	98-06-6	BD	0.07	mg/Kg	19-Sep-13	
Carbon disulfide	75-15-0	BD	0.27	mg/Kg	19-Sep-13	
Carbon Tetrachloride	56-23-5	BD	0.07	mg/Kg	19-Sep-13	
Chloroethane	75-00-3	BD	0.07	mg/Kg	19-Sep-13	
Chloromethane	74-87-3	BD	0.13	mg/Kg	19-Sep-13	
Chlorotoluene, 2	95-49-8	BD	0.07	mg/Kg	19-Sep-13	
Chlorotoluene, 4	106-43-4	BD	0.07	mg/Kg	19-Sep-13	
Dibromochloromethane	124-48-1	BD	0.07	mg/Kg	19-Sep-13	
Dibromochloropropane	96-12-8	BD	0.13	mg/Kg	19-Sep-13	
Dibromomethane	74-95-3	BD	0.07	mg/Kg	19-Sep-13	
Dichlorobenzene, 1,2-	95-50-1	BD	0.07	mg/Kg	19-Sep-13	
Dichlorobenzene, 1,3-	541-73-1	BD	0.07	mg/Kg	19-Sep-13	
Dichlorobenzene, 1,4-	106-46-7	BD	0.07	mg/Kg	19-Sep-13	
Dichlorodifluoromethane	75-71-8	BD	0.13	mg/Kg	19-Sep-13	
Dichloroethane, 1,1-	75-34-3	BD	0.07	mg/Kg	19-Sep-13	
Dichloroethane, 1,2-	107-06-2	BD	0.07	mg/Kg	19-Sep-13	
Dichloroethylene, 1,1-	75-35-4	BD	0.07	mg/Kg	19-Sep-13	
Dichloroethylene, cis-1,2-	156-59-2	BD	0.07	mg/Kg	19-Sep-13	
Dichloroethylene, trans-1,2-	156-60-5	BD	0.07	mg/Kg	19-Sep-13	
Dichloromethane	75-09-2	BD	0.13	mg/Kg	19-Sep-13	
Dichloropropane, 1,2-	78-87-5	BD	0.07	mg/Kg	19-Sep-13	
Dichloropropane, 1,3-	142-28-9	BD	0.07	mg/Kg	19-Sep-13	
Dichloropropane, 2,2-	594-20-7	BD	0.20	mg/Kg	19-Sep-13	
Dichloropropene, 1,1-	563-58-6	BD	0.07	mg/Kg	19-Sep-13	
Dichloropropene, cis-1,3-	10061-01-5	BD	0.07	mg/Kg	19-Sep-13	
Dichloropropene, trans-1,3-	10061-02-6	BD	0.07	mg/Kg	19-Sep-13	
Diethyl Ether	60-29-7	BD	1.7	mg/Kg	19-Sep-13	
Diisopropyl Ether	108-20-3	BD	0.07	mg/Kg	19-Sep-13	
Ethylbenzene	100-41-4	BD	0.07	mg/Kg	19-Sep-13	
Ethylene dibromide	106-93-4	BD	0.07	mg/Kg	19-Sep-13	
Ethyl tert-Butyl Ether	637-92-3	BD	0.07	mg/Kg	19-Sep-13	

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Sovereign Consulting, Inc.	Project: Frank Bean Road - Laconia, NH	
7 Hills Avenue	Project Number: NH011	**Reported:**
Concord NH, 03301	Project Manager: Mr. Mark Henderson	26-Sep-13 14:49

SB-120/MW @ 45'-47'
1309053-03 (Soil)

Sampled: 16-Sep-13

Volatile Organic Compounds by EPA 8260B

Analyte	CAS Number	Result	Reporting Limit	Units	Analyzed	Notes
Hexachlorobutadiene	87-68-3	BD	0.13	mg/Kg	19-Sep-13	
Isopropylbenzene	98-82-8	BD	0.07	mg/Kg	19-Sep-13	
Isopropyltoluene, p-	99-87-6	BD	0.07	mg/Kg	19-Sep-13	
Methyl Butyl Ketone (2-Hexanone)	591-78-6	BD	1.7	mg/Kg	19-Sep-13	
Methyl Ethyl Ketone (2-Butanone)	78-93-3	BD	1.7	mg/Kg	19-Sep-13	
Methyl Isobutyl Ketone	108-10-1	BD	1.7	mg/Kg	19-Sep-13	
Methyl-tert-Butyl Ether	1634-04-4	BD	0.03	mg/Kg	19-Sep-13	
Monochlorobenzene	108-90-7	BD	0.07	mg/Kg	19-Sep-13	
Naphthalene	91-20-3	BD	0.13	mg/Kg	19-Sep-13	
n-Propylbenzene	103-65-1	BD	0.07	mg/Kg	19-Sep-13	
Styrene	100-42-5	BD	0.07	mg/Kg	19-Sep-13	
tert-Amyl Methyl Ether	994-05-8	BD	0.13	mg/Kg	19-Sep-13	
tert-Butyl alcohol	75-65-0	BD	0.66	mg/Kg	19-Sep-13	
Tetrachloroethane, 1,1,1,2-	630-20-6	BD	0.07	mg/Kg	19-Sep-13	
Tetrachloroethane, 1,1,2,2-	79-34-5	BD	0.07	mg/Kg	19-Sep-13	
Tetrachloroethylene	127-18-4	BD	0.07	mg/Kg	19-Sep-13	
Tetrahydrofuran	109-99-9	BD	1.7	mg/Kg	19-Sep-13	
Toluene	108-88-3	BD	0.07	mg/Kg	19-Sep-13	
Trichlorobenzene, 1,2,3-	87-61-6	BD	0.13	mg/Kg	19-Sep-13	
Trichlorobenzene, 1,2,4-	120-82-1	BD	0.13	mg/Kg	19-Sep-13	
Trichlorobenzene, 1,3,5-	108-70-3	BD	0.13	mg/Kg	19-Sep-13	
Trichloroethane, 1,1,1-	71-55-6	BD	0.07	mg/Kg	19-Sep-13	
Trichloroethane, 1,1,2-	79-00-5	BD	0.07	mg/Kg	19-Sep-13	
Trichloroethylene	79-01-6	BD	0.03	mg/Kg	19-Sep-13	
Trichloro 1,1,2-, trifluoro 1,2,2-, ethane	76-13-1	BD	0.13	mg/Kg	19-Sep-13	
Trichlorofluoromethane	75-69-4	BD	0.13	mg/Kg	19-Sep-13	
Trichloromethane	67-66-3	BD	0.07	mg/Kg	19-Sep-13	
Trichloropropane, 1,2,3-	96-18-4	BD	0.07	mg/Kg	19-Sep-13	
Trimethylbenzene, 1,2,4-	95-63-6	BD	0.07	mg/Kg	19-Sep-13	
Trimethylbenzene, 1,3,5-	108-67-8	BD	0.07	mg/Kg	19-Sep-13	
Vinyl chloride	75-01-4	BD	0.27	mg/Kg	19-Sep-13	
Xylenes, m & p-	108-38-3,106-42-3	BD	0.13	mg/Kg	19-Sep-13	
Xylenes, o-	95-47-6	BD	0.07	mg/Kg	19-Sep-13	

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Sovereign Consulting, Inc.	Project: Frank Bean Road - Laconia, NH	
7 Hills Avenue	Project Number: NH011	**Reported:**
Concord NH, 03301	Project Manager: Mr. Mark Henderson	26-Sep-13 14:49

SB-120/MW @ 45'-47'
1309053-03 (Soil)

Sampled: 16-Sep-13

Polycyclic Aromatic Hydrocarbons

Analyte	CAS Number	Result	Reporting Limit	Units	Analyzed	Method	Notes
Acenaphthene	83-32-9	BD	0.40	mg/Kg	26-Sep-13	8270C	
Acenaphthylene	208-96-8	BD	0.40	mg/Kg	26-Sep-13	8270C	Surra
Anthracene	120-12-7	BD	0.40	mg/Kg	26-Sep-13	8270C	
Benzo(a)anthracene	56-55-3	BD	0.10	mg/Kg	26-Sep-13	8270C	
Benzo(a)pyrene	50-32-8	BD	0.20	mg/Kg	26-Sep-13	8270C	
Benzo(b)fluoranthene	205-99-2	BD	0.10	mg/Kg	26-Sep-13	8270C	
Benzo(g,h,i)perylene	191-24-2	BD	0.40	mg/Kg	26-Sep-13	8270C	
Benzo(k)fluoranthene	207-08-9	BD	0.40	mg/Kg	26-Sep-13	8270C	
Chrysene	218-01-9	BD	0.40	mg/Kg	26-Sep-13	8270C	
Dibenz (a,h) anthracene	53-70-3	BD	0.10	mg/Kg	26-Sep-13	8270C	
Fluoranthene	206-44-0	BD	0.40	mg/Kg	26-Sep-13	8270C	
Fluorene	86-73-7	BD	0.40	mg/Kg	26-Sep-13	8270C	
Indeno(1,2,3-cd)pyrene	193-39-5	BD	0.10	mg/Kg	26-Sep-13	8270C	
Methylnaphthalene, 1-	90-12-0	BD	0.40	mg/Kg	26-Sep-13	8270C	Surra
Methylnaphthalene, 2-	91-57-6	BD	0.40	mg/Kg	26-Sep-13	8270C	Surra
Naphthalene	91-20-3	BD	0.40	mg/Kg	26-Sep-13	8270C	Surra
Phenanthrene	85-01-8	BD	0.40	mg/Kg	26-Sep-13	8270C	
Pyrene	129-00-0	BD	0.40	mg/Kg	26-Sep-13	8270C	

Metals by ICPMS

Analyte	CAS Number	Result	Reporting Limit	Units	Analyzed	Method	Notes
Antimony	7440-36-0	BD	0.9	mg/Kg	22-Sep-13	6020A	
Arsenic	7440-38-2	**1**	0.9	mg/Kg	24-Sep-13	6020A	
Beryllium	7440-41-7	BD	0.9	mg/Kg	24-Sep-13	6020A	
Cadmium	7440-43-9	BD	0.9	mg/Kg	22-Sep-13	6020A	
Chromium	7440-47-3	**4**	0.9	mg/Kg	24-Sep-13	6020A	
Copper	7440-50-8	**4**	0.9	mg/Kg	24-Sep-13	6020A	
Lead	7439-92-1	**2**	0.9	mg/Kg	22-Sep-13	6020A	
Mercury	7439-97-6	BD	0.19	mg/Kg	22-Sep-13	6020A	
Nickel	7440-02-0	**3**	0.9	mg/Kg	24-Sep-13	6020A	
Selenium	7782-49-2	BD	0.9	mg/Kg	22-Sep-13	6020A	
Silver	7440-22-4	BD	0.9	mg/Kg	22-Sep-13	6020A	
Thallium	7440-28-0	BD	0.9	mg/Kg	22-Sep-13	6020A	
Zinc	7440-66-6	**20**	3	mg/Kg	24-Sep-13	6020A	

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Sovereign Consulting, Inc.	Project: Frank Bean Road - Laconia, NH	
7 Hills Avenue	Project Number: NH011	**Reported:**
Concord NH, 03301	Project Manager: Mr. Mark Henderson	26-Sep-13 14:49

SB-120/MW @ 45'-47'
1309053-03 (Soil)

Sampled: 16-Sep-13

% Solids, dry weight

Analyte	CAS Number	Result	Reporting Limit	Units	Analyzed	Method	Notes
% Solids	NA	**82.8**	0.1	[blank]	18-Sep-13	% Calculation	

Notes and Definitions

Surra Surrogate recovery exceeds method specified limit:nitrobenzene-d5: 36%

Surr Surrogate recovery exceeds method specified limit:nitrobenzene-d5: 35%

BD Analyte result below the laboratory reporting limit

NR Not Reported

Soil sample results reported on a dry weight basis.

The reporting limit is the lowest level at which reliable quantitation has been demonstrated.

Analytes in **bold** are values reported above the reporting limit.

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Laboratory Services

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E-Mail: aquarianlab@comcast.net

Turnaround Requirements (check one)

RUSH SAMPLES NEED PRIOR APPROVAL

____ Same Day Turnaround (150% upcharge)
____ One Day Turnaround (100% upcharge)
____ Two Day Turnaround (50% upcharge)
____ Three Day Turnaround (25% upcharge)
X Normal turnaround

Project Information

Project #:	NH011	Project Manager:	Mark Henderson
Project Name:	Frank Bean Rd.	Report to:	Sovereign Consulting
Town/Site:	Laconia, NH	Invoice to:	Sovereign Consulting
Sampler:	Dylan Bush	Phone:	603-856-8644
Company:	Sovereign Consulting	E-Mail:	mhenderson@sovcon.com
BID Reference:			

Sample Information

AAI Work Order #	Sample ID	Sample Collection Time 9.16.13	Sample Matrix	Number of Containers	VOC's-SVOC's (NELAC Qc Y___ N___): EPA 8260 w/ oxygenates	BTEX / MTBE	BTEX+MTBE+Naphthalene	Chlorinated only	EPA 524.2 Drinking Water	EDB	1,4 Dioxane	EPA 8270 A-B/N	EPA 8270 PAH	TPH: EPA 8015M Gasoline	EPA 8100M Fuel Oil	Fingerprint	Metals: RCRA 8	Field Filtered:	Lab Filtered:	Total: 13 PP METALS	TCLP: Zero Headspace Extraction (ZHE)	TCLP Pesticides	TCLP Herbicides	TCLP Metals	Other (list): PCB	EPA SW846-7 Reactivity	EPA 1010 Flashpoint / Ignitab	EPA 150.1 / 9045 pH	Alkalinity	Nitrate	Sulfate	Chloride	NH DES Full LIST
1309053-01	SB-119/MW@ 30-32'	15:18	S	2	X								X							X													
-02	SB-118/MW@ 50-52'	15:22	↓	↓	X								X							X													
-03	SB-120/MW@ 45'-47'	18:22	↓	↓	X								X							X													

Relinquished by: [signature]	Date: 9.16.13 Time: 20:00	Received by: Sovcon Refrigerator	Notes: * Samples kept on ice during transport
Relinquished by: Refrigerator	Date: 9-17-2013 Time: 845	Received by: [signature]	Temperature 4 °C
Relinquished by:	Date: Time:	Received by:	Is this N.H. "ODD Fund" related? Y____ N ✓

Aquarian Analytical will subcontract those tests we do not perform with your prior approval

Please keep samples on ice from the time of collection

Aquarian Analytical, Inc.
Laboratory Services
153 West Road
Canterbury, N.H. 03224
Phone - 603-783-9097
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16 October 2013

Mr. Mark Henderson
Sovereign Consulting, Inc.
7 Hills Avenue
Concord, NH 03301

RE: Frank Bean Road - Laconia, NH

Dear Mr. Henderson:

Enclosed are the results of analyses for the following samples, which were received at 6 c.
These samples were brought to the laboratory from the field on ice.

Laboratory ID	Sample ID	Sample matrix	Date sampled	Date received
1310006-01	**SS-1**	Soil	30-Sep-13 12:20	30-Sep-13 17:15
1310006-02	**SS-2**	Soil	30-Sep-13 14:25	30-Sep-13 17:15
1310006-03	**SS-3**	Soil	30-Sep-13 15:25	30-Sep-13 17:15
1310006-04	**SS-4**	Soil	30-Sep-13 16:00	30-Sep-13 17:15
1310006-05	**SS-5**	Soil	30-Sep-13 16:30	30-Sep-13 17:15

The results in this report relate only to the submitted samples. Please refer to our website listed above for a list of accredited parameters. If you have any questions concerning this report, please feel free to contact me.

Alan G. Naber
Laboratory Director

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Sovereign Consulting, Inc.	Project: Frank Bean Road - Laconia, NH	
7 Hills Avenue	Project Number: NH011	**Reported:**
Concord NH, 03301	Project Manager: Mr. Mark Henderson	16-Oct-13 14:13

SS-1
1310006-01 (Soil)

Sampled: 30-Sep-13

Polycyclic Aromatic Hydrocarbons

Analyte	CAS Number	Result	Reporting Limit	Units	Analyzed	Method	Notes
Acenaphthene	83-32-9	BD	0.40	mg/Kg	15-Oct-13	8270C	
Acenaphthylene	208-96-8	BD	0.40	mg/Kg	15-Oct-13	8270C	
Anthracene	120-12-7	BD	0.40	mg/Kg	15-Oct-13	8270C	
Benzo(a)anthracene	56-55-3	**0.22**	0.10	mg/Kg	15-Oct-13	8270C	CCV
Benzo(a)pyrene	50-32-8	**0.42**	0.20	mg/Kg	15-Oct-13	8270C	
Benzo(b)fluoranthene	205-99-2	**0.61**	0.10	mg/Kg	15-Oct-13	8270C	CCVa
Benzo(g,h,i)perylene	191-24-2	BD	0.40	mg/Kg	15-Oct-13	8270C	CCV
Benzo(k)fluoranthene	207-08-9	BD	0.40	mg/Kg	15-Oct-13	8270C	CCVa
Chrysene	218-01-9	BD	0.40	mg/Kg	15-Oct-13	8270C	
Dibenz (a,h) anthracene	53-70-3	BD	0.10	mg/Kg	15-Oct-13	8270C	CCV
Fluoranthene	206-44-0	BD	0.40	mg/Kg	15-Oct-13	8270C	
Fluorene	86-73-7	BD	0.40	mg/Kg	15-Oct-13	8270C	
Indeno(1,2,3-cd)pyrene	193-39-5	**0.22**	0.10	mg/Kg	15-Oct-13	8270C	CCV
Methylnaphthalene, 1-	90-12-0	BD	0.40	mg/Kg	15-Oct-13	8270C	
Methylnaphthalene, 2-	91-57-6	BD	0.40	mg/Kg	15-Oct-13	8270C	
Naphthalene	91-20-3	BD	0.40	mg/Kg	15-Oct-13	8270C	
Phenanthrene	85-01-8	BD	0.40	mg/Kg	15-Oct-13	8270C	
Pyrene	129-00-0	BD	0.40	mg/Kg	15-Oct-13	8270C	

Subcontracted Analyses

Analyte	CAS Number	Result	Reporting Limit	Units	Analyzed	Method	Notes
Hexavalent Chromium	1854-02-99	BD	1	mg/kg	03-Oct-13	7196A	Sub

% Solids, dry weight

Analyte	CAS Number	Result	Reporting Limit	Units	Analyzed	Method	Notes
% Solids	NA	**79.2**	0.1	[blank]	02-Oct-13	% Calculation	

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Sovereign Consulting, Inc.	Project: Frank Bean Road - Laconia, NH	
7 Hills Avenue	Project Number: NH011	**Reported:**
Concord NH, 03301	Project Manager: Mr. Mark Henderson	16-Oct-13 14:13

SS-2
1310006-02 (Soil)

Sampled: 30-Sep-13

Polycyclic Aromatic Hydrocarbons

Analyte	CAS Number	Result	Reporting Limit	Units	Analyzed	Method	Notes
Acenaphthene	83-32-9	BD	0.40	mg/Kg	15-Oct-13	8270C	
Acenaphthylene	208-96-8	**0.64**	0.40	mg/Kg	15-Oct-13	8270C	
Anthracene	120-12-7	BD	0.40	mg/Kg	15-Oct-13	8270C	
Benzo(a)anthracene	56-55-3	**1.7**	0.10	mg/Kg	15-Oct-13	8270C	CCV
Benzo(a)pyrene	50-32-8	**1.6**	0.20	mg/Kg	15-Oct-13	8270C	
Benzo(b)fluoranthene	205-99-2	**2.6**	0.10	mg/Kg	15-Oct-13	8270C	CCVa
Benzo(g,h,i)perylene	191-24-2	**0.59**	0.40	mg/Kg	15-Oct-13	8270C	CCV
Benzo(k)fluoranthene	207-08-9	**1.8**	0.40	mg/Kg	15-Oct-13	8270C	CCVa
Chrysene	218-01-9	**2.4**	0.40	mg/Kg	15-Oct-13	8270C	
Dibenz (a,h) anthracene	53-70-3	**0.24**	0.10	mg/Kg	15-Oct-13	8270C	CCV
Fluoranthene	206-44-0	**2.9**	0.40	mg/Kg	15-Oct-13	8270C	
Fluorene	86-73-7	BD	0.40	mg/Kg	15-Oct-13	8270C	
Indeno(1,2,3-cd)pyrene	193-39-5	**0.59**	0.10	mg/Kg	15-Oct-13	8270C	CCV
Methylnaphthalene, 1-	90-12-0	BD	0.40	mg/Kg	15-Oct-13	8270C	
Methylnaphthalene, 2-	91-57-6	BD	0.40	mg/Kg	15-Oct-13	8270C	
Naphthalene	91-20-3	BD	0.40	mg/Kg	15-Oct-13	8270C	
Phenanthrene	85-01-8	**1.6**	0.40	mg/Kg	15-Oct-13	8270C	
Pyrene	129-00-0	**3.3**	0.40	mg/Kg	15-Oct-13	8270C	

Subcontracted Analyses

Analyte	CAS Number	Result	Reporting Limit	Units	Analyzed	Method	Notes
Hexavalent Chromium	1854-02-99	BD	0.9	mg/kg	03-Oct-13	7196A	Sub

% Solids, dry weight

Analyte	CAS Number	Result	Reporting Limit	Units	Analyzed	Method	Notes
% Solids	NA	**72.7**	0.1	[blank]	02-Oct-13	% Calculation	

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Sovereign Consulting, Inc.	Project: Frank Bean Road - Laconia, NH	
7 Hills Avenue	Project Number: NH011	**Reported:**
Concord NH, 03301	Project Manager: Mr. Mark Henderson	16-Oct-13 14:13

SS-3
1310006-03 (Soil)

Sampled: 30-Sep-13

Polycyclic Aromatic Hydrocarbons

Analyte	CAS Number	Result	Reporting Limit	Units	Analyzed	Method	Notes
Acenaphthene	83-32-9	BD	0.40	mg/Kg	15-Oct-13	8270C	Surr
Acenaphthylene	208-96-8	BD	0.40	mg/Kg	15-Oct-13	8270C	Surra
Anthracene	120-12-7	BD	0.40	mg/Kg	15-Oct-13	8270C	Surr
Benzo(a)anthracene	56-55-3	**0.12**	0.10	mg/Kg	15-Oct-13	8270C	CCV
Benzo(a)pyrene	50-32-8	BD	0.20	mg/Kg	15-Oct-13	8270C	
Benzo(b)fluoranthene	205-99-2	**0.19**	0.10	mg/Kg	15-Oct-13	8270C	CCVa
Benzo(g,h,i)perylene	191-24-2	BD	0.40	mg/Kg	15-Oct-13	8270C	CCV
Benzo(k)fluoranthene	207-08-9	BD	0.40	mg/Kg	15-Oct-13	8270C	CCVa
Chrysene	218-01-9	BD	0.40	mg/Kg	15-Oct-13	8270C	
Dibenz (a,h) anthracene	53-70-3	BD	0.10	mg/Kg	15-Oct-13	8270C	CCV
Fluoranthene	206-44-0	BD	0.40	mg/Kg	15-Oct-13	8270C	Surr
Fluorene	86-73-7	BD	0.40	mg/Kg	15-Oct-13	8270C	Surr
Indeno(1,2,3-cd)pyrene	193-39-5	BD	0.10	mg/Kg	15-Oct-13	8270C	CCV
Methylnaphthalene, 1-	90-12-0	BD	0.40	mg/Kg	15-Oct-13	8270C	Surra
Methylnaphthalene, 2-	91-57-6	BD	0.40	mg/Kg	15-Oct-13	8270C	Surra
Naphthalene	91-20-3	BD	0.40	mg/Kg	15-Oct-13	8270C	Surra
Phenanthrene	85-01-8	BD	0.40	mg/Kg	15-Oct-13	8270C	Surr
Pyrene	129-00-0	BD	0.40	mg/Kg	15-Oct-13	8270C	Surr

Subcontracted Analyses

Analyte	CAS Number	Result	Reporting Limit	Units	Analyzed	Method	Notes
Hexavalent Chromium	1854-02-99	BD	1	mg/kg	03-Oct-13	7196A	Sub

% Solids, dry weight

Analyte	CAS Number	Result	Reporting Limit	Units	Analyzed	Method	Notes
% Solids	NA	**70.9**	0.1	[blank]	02-Oct-13	% Calculation	

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Sovereign Consulting, Inc.	Project: Frank Bean Road - Laconia, NH	
7 Hills Avenue	Project Number: NH011	**Reported:**
Concord NH, 03301	Project Manager: Mr. Mark Henderson	16-Oct-13 14:13

SS-4
1310006-04 (Soil)

Sampled: 30-Sep-13

Polycyclic Aromatic Hydrocarbons

Analyte	CAS Number	Result	Reporting Limit	Units	Analyzed	Method	Notes
Acenaphthene	83-32-9	BD	0.40	mg/Kg	15-Oct-13	8270C	
Acenaphthylene	208-96-8	BD	0.40	mg/Kg	15-Oct-13	8270C	
Anthracene	120-12-7	**0.55**	0.40	mg/Kg	15-Oct-13	8270C	
Benzo(a)anthracene	56-55-3	**1.0**	0.10	mg/Kg	15-Oct-13	8270C	CCV
Benzo(a)pyrene	50-32-8	**1.1**	0.20	mg/Kg	15-Oct-13	8270C	
Benzo(b)fluoranthene	205-99-2	**1.9**	0.10	mg/Kg	15-Oct-13	8270C	CCVa
Benzo(g,h,i)perylene	191-24-2	BD	0.40	mg/Kg	15-Oct-13	8270C	CCV
Benzo(k)fluoranthene	207-08-9	**0.66**	0.40	mg/Kg	15-Oct-13	8270C	CCVa
Chrysene	218-01-9	**1.2**	0.40	mg/Kg	15-Oct-13	8270C	
Dibenz (a,h) anthracene	53-70-3	**0.12**	0.10	mg/Kg	15-Oct-13	8270C	CCV
Fluoranthene	206-44-0	**2.7**	0.40	mg/Kg	15-Oct-13	8270C	
Fluorene	86-73-7	BD	0.40	mg/Kg	15-Oct-13	8270C	
Indeno(1,2,3-cd)pyrene	193-39-5	**0.35**	0.10	mg/Kg	15-Oct-13	8270C	CCV
Methylnaphthalene, 1-	90-12-0	BD	0.40	mg/Kg	15-Oct-13	8270C	
Methylnaphthalene, 2-	91-57-6	BD	0.40	mg/Kg	15-Oct-13	8270C	
Naphthalene	91-20-3	BD	0.40	mg/Kg	15-Oct-13	8270C	
Phenanthrene	85-01-8	**2.6**	0.40	mg/Kg	15-Oct-13	8270C	
Pyrene	129-00-0	**2.1**	0.40	mg/Kg	15-Oct-13	8270C	

Subcontracted Analyses

Analyte	CAS Number	Result	Reporting Limit	Units	Analyzed	Method	Notes
Hexavalent Chromium	1854-02-99	BD	1	mg/kg	03-Oct-13	7196A	Sub

% Solids, dry weight

Analyte	CAS Number	Result	Reporting Limit	Units	Analyzed	Method	Notes
% Solids	NA	**75.8**	0.1	[blank]	02-Oct-13	% Calculation	

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Sovereign Consulting, Inc.	Project: Frank Bean Road - Laconia, NH	
7 Hills Avenue	Project Number: NH011	**Reported:**
Concord NH, 03301	Project Manager: Mr. Mark Henderson	16-Oct-13 14:13

SS-5
1310006-05 (Soil)

Sampled: 30-Sep-13

Polycyclic Aromatic Hydrocarbons

Analyte	CAS Number	Result	Reporting Limit	Units	Analyzed	Method	Notes
Acenaphthene	83-32-9	BD	0.40	mg/Kg	15-Oct-13	8270C	
Acenaphthylene	208-96-8	BD	0.40	mg/Kg	15-Oct-13	8270C	
Anthracene	120-12-7	BD	0.40	mg/Kg	15-Oct-13	8270C	
Benzo(a)anthracene	56-55-3	**0.36**	0.10	mg/Kg	15-Oct-13	8270C	CCV
Benzo(a)pyrene	50-32-8	**0.32**	0.20	mg/Kg	15-Oct-13	8270C	Dup
Benzo(b)fluoranthene	205-99-2	**0.57**	0.10	mg/Kg	15-Oct-13	8270C	CCVa, Dup
Benzo(g,h,i)perylene	191-24-2	BD	0.40	mg/Kg	15-Oct-13	8270C	CCV, Spk
Benzo(k)fluoranthene	207-08-9	BD	0.40	mg/Kg	15-Oct-13	8270C	CCVa
Chrysene	218-01-9	**0.58**	0.40	mg/Kg	15-Oct-13	8270C	
Dibenz (a,h) anthracene	53-70-3	BD	0.10	mg/Kg	15-Oct-13	8270C	CCV, Spk
Fluoranthene	206-44-0	**0.48**	0.40	mg/Kg	15-Oct-13	8270C	Dup
Fluorene	86-73-7	BD	0.40	mg/Kg	15-Oct-13	8270C	
Indeno(1,2,3-cd)pyrene	193-39-5	**0.15**	0.10	mg/Kg	15-Oct-13	8270C	CCV, Spk
Methylnaphthalene, 1-	90-12-0	BD	0.40	mg/Kg	15-Oct-13	8270C	
Methylnaphthalene, 2-	91-57-6	BD	0.40	mg/Kg	15-Oct-13	8270C	
Naphthalene	91-20-3	BD	0.40	mg/Kg	15-Oct-13	8270C	
Phenanthrene	85-01-8	**0.42**	0.40	mg/Kg	15-Oct-13	8270C	
Pyrene	129-00-0	**0.51**	0.40	mg/Kg	15-Oct-13	8270C	Dup

Subcontracted Analyses

Analyte	CAS Number	Result	Reporting Limit	Units	Analyzed	Method	Notes
Hexavalent Chromium	1854-02-99	BD	0.5	mg/kg	03-Oct-13	7196A	Sub

% Solids, dry weight

Analyte	CAS Number	Result	Reporting Limit	Units	Analyzed	Method	Notes
% Solids	NA	**89.4**	0.1	[blank]	02-Oct-13	% Calculation	

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Sovereign Consulting, Inc.	Project: Frank Bean Road - Laconia, NH	
7 Hills Avenue	Project Number: NH011	**Reported:**
Concord NH, 03301	Project Manager: Mr. Mark Henderson	16-Oct-13 14:13

Notes and Definitions

Surra	Surrogate recovery exceeds method specified limit:nitrobenzene-d5: 29%
Surr	Surrogate recovery exceeds method specified limit:2-fluorobiphenyl: 34%
Sub	Analysis subcontracted to Phoenix Environmental Laboratories, Manchester, CT.
Spk	Spike sample exceeds limits benzo(g,h,i)perylene: 24%, dibenz(a,h)anthracene: 23%, indeno(1,2,3-cd)pyrene: 30%
Dup	Duplicate sample exceeds limits.
CCVa	Calibration Check exceeds limits benzo(b)fluoranthene: 132%, benzo(k)fluoranthene: 123%
CCV	Calibration Check exceeds limits benzo(a)anthracene: 77%, benzo(g,h,i)perylene: 43%, dibenz(a,h)anthracene: 60%, indeno(1,2,3-cd)pyrene: 54%
BD	Analyte result below the laboratory reporting limit
NR	Not Reported

Soil sample results reported on a dry weight basis.

The reporting limit is the lowest level at which reliable quantitation has been demonstrated.

Analytes in **bold** are values reported above the reporting limit.

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Laboratory Services

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Phone:(603)783-9097
Fax:(603)783-0360
E-Mail: aquarianlab@comcast.net

Turnaround Requirements (check one)

RUSH SAMPLES NEED PRIOR APPROVAL

- ___ Same Day Turnaround (150% upcharge)
- ___ One Day Turnaround (100% upcharge)
- ___ Two Day Turnaround (50% upcharge)
- ___ Three Day Turnaround (25% upcharge)
- X Normal turnaround

Project Information

Project #: NH011
Project Name: FRANK BEAN RD
Town/Site: LACONIA, NH
Sampler: Dylan Bush
Company: SOVEREIGN
BID Reference:

Project Manager: MARK HENDERSON
Report to:
Invoice to: SAME
Phone: 603.856.8844
E-Mail: mhenderson@sovcon.com

Sample Information

AAI Work Order #	Sample ID	Sample Collection Time	Sample Matrix	Number of Containers	EPA 8260 w/ oxygenates	BTEX / MTBE	BTEX+MTBE+Naphthalene	Chlorinated only	EPA 524.2 Drinking Water	EDB	1,4 Dioxane	EPA 8270 A-B/N	EPA 8270 PAH	EPA 8015M Gasoline	EPA 8100M Fuel Oil	Fingerprint	RCRA 8	Field Filtered:	Lab Filtered:	Total:	Zero Headspace Extraction (ZHE)	TCLP Pesticides	TCLP Herbicides	TCLP Metals	PCB	EPA SW846-7 Reactivity	EPA 1010 Flashpoint / Ignitab	EPA 150.1 / 9045 pH	Alkalinity	Nitrate	Sulfate	Chloride	HEX CHROME
1310006-01	SS-1	9.30.13/12:20	S	2									X																				
-02	SS-2	14:25											X																				X
-03	SS-3	15:25											X																				X
-04	SS-4	16:00											X																				X
-05	SS-5	16:30											X																				X

Relinquished by:	Date:	Received by:
Dylan Bush	9.30.13 Time: 17:15	
Relinquished by:	Date: TM Time:	Received by:
Relinquished by:	Date: Time:	Received by:

Notes:

Temperature 6 °C BDFF on ice

Is this N.H. "ODD Fund" related? Y___ N___

Aquarian Analytical will subcontract those tests we do not perform with your prior approval

Please keep samples on ice from the time of collection

Aquarian Analytical, Inc.
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28 October 2013

Mr. Mark Henderson
Sovereign Consulting, Inc.
7 Hills Avenue
Concord, NH 03301

RE: Frank Bean Road - Laconia, NH

Dear Mr. Henderson:

Enclosed are the results of analyses for the following samples, which were received at 6 c.
These samples were brought to the laboratory from the field on ice.

Laboratory ID	Sample ID	Sample matrix	Date sampled	Date received
1310072-01	**SS-1**	Soil	30-Sep-13 12:20	17-Oct-13 11:00
1310072-02	**SS-2**	Soil	30-Sep-13 14:25	17-Oct-13 11:00
1310072-03	**SS-3**	Soil	30-Sep-13 15:25	17-Oct-13 11:00
1310072-04	**SS-4**	Soil	30-Sep-13 16:00	17-Oct-13 11:00
1310072-05	**SS-5**	Soil	30-Sep-13 16:30	17-Oct-13 11:00

The results in this report relate only to the submitted samples. Please refer to our website listed above for a list of accredited parameters. If you have any questions concerning this report, please feel free to contact me.

Alan G. Naber
Laboratory Director

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Laboratory Services

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Sovereign Consulting, Inc.	Project:	Frank Bean Road - Laconia, NH	
7 Hills Avenue	Project Number:	NH011	**Reported:**
Concord NH, 03301	Project Manager:	Mr. Mark Henderson	28-Oct-13 16:56

SS-1
1310072-01 (Soil)

Sampled: 30-Sep-13

Metals by ICPMS

Analyte	CAS Number	Result	Reporting Limit	Units	Analyzed	Method	Notes
Chromium	7440-47-3	**65**	0.9	mg/Kg	24-Oct-13	6020A	

% Solids, dry weight

Analyte	CAS Number	Result	Reporting Limit	Units	Analyzed	Method	Notes
% Solids	NA	**79.2**	0.1	[blank]	21-Oct-13	% Calculation	

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Sovereign Consulting, Inc.	Project:	Frank Bean Road - Laconia, NH	
7 Hills Avenue	Project Number:	NH011	**Reported:**
Concord NH, 03301	Project Manager:	Mr. Mark Henderson	28-Oct-13 16:56

SS-2
1310072-02 (Soil)

Sampled: 30-Sep-13

Metals by ICPMS

Analyte	CAS Number	Result	Reporting Limit	Units	Analyzed	Method	Notes
Chromium	7440-47-3	**340**	0.8	mg/Kg	24-Oct-13	6020A	

% Solids, dry weight

Analyte	CAS Number	Result	Reporting Limit	Units	Analyzed	Method	Notes
% Solids	NA	**72.7**	0.1	[blank]	21-Oct-13	% Calculation	

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Sovereign Consulting, Inc.	Project: Frank Bean Road - Laconia, NH	
7 Hills Avenue	Project Number: NH011	**Reported:**
Concord NH, 03301	Project Manager: Mr. Mark Henderson	28-Oct-13 16:56

SS-3
1310072-03 (Soil)

Sampled: 30-Sep-13

Metals by ICPMS

Analyte	CAS Number	Result	Reporting Limit	Units	Analyzed	Method	Notes
Chromium	7440-47-3	**230**	0.8	mg/Kg	24-Oct-13	6020A	

% Solids, dry weight

Analyte	CAS Number	Result	Reporting Limit	Units	Analyzed	Method	Notes
% Solids	NA	**70.9**	0.1	[blank]	21-Oct-13	% Calculation	

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Aquarian Analytical, Inc.
Laboratory Services
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www.Aquarianlabs.com

Sovereign Consulting, Inc.	Project: Frank Bean Road - Laconia, NH	
7 Hills Avenue	Project Number: NH011	**Reported:**
Concord NH, 03301	Project Manager: Mr. Mark Henderson	28-Oct-13 16:56

SS-4
1310072-04 (Soil)

Sampled: 30-Sep-13

Metals by ICPMS

Analyte	CAS Number	Result	Reporting Limit	Units	Analyzed	Method	Notes
Chromium	7440-47-3	**6**	0.7	mg/Kg	24-Oct-13	6020A	

% Solids, dry weight

Analyte	CAS Number	Result	Reporting Limit	Units	Analyzed	Method	Notes
% Solids	NA	**75.8**	0.1	[blank]	21-Oct-13	% Calculation	

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Sovereign Consulting, Inc.	Project:	Frank Bean Road - Laconia, NH	
7 Hills Avenue	Project Number:	NH011	**Reported:**
Concord NH, 03301	Project Manager:	Mr. Mark Henderson	28-Oct-13 16:56

SS-5
1310072-05 (Soil)

Sampled: 30-Sep-13

Metals by ICPMS

Analyte	CAS Number	Result	Reporting Limit	Units	Analyzed	Method	Notes
Chromium	7440-47-3	**53**	0.9	mg/Kg	24-Oct-13	6020A	

% Solids, dry weight

Analyte	CAS Number	Result	Reporting Limit	Units	Analyzed	Method	Notes
% Solids	NA	**89.4**	0.1	[blank]	21-Oct-13	% Calculation	

Notes and Definitions

BD Analyte result below the laboratory reporting limit

NR Not Reported

Soil sample results reported on a dry weight basis.

The reporting limit is the lowest level at which reliable quantitation has been demonstrated.

Analytes in **bold** are values reported above the reporting limit.

Aquarian Analytical, Inc.

Laboratory Services

153 West Road
Canterbury, NH 03224
Phone:(603)783-9097
Fax:(603)783-0360
E-Mail: aquarianlab@comcast.net

Turnaround Requirements (check one)

RUSH SAMPLES NEED PRIOR APPROVAL

- ___ Same Day Turnaround (150% upcharge)
- ___ One Day Turnaround (100% upcharge)
- ___ Two Day Turnaround (50% upcharge)
- ___ Three Day Turnaround (25% upcharge)
- X Normal turnaround

Project Information

Project #: WH011
Project Name: FRANK BEAN RD
Town/Site: LACONIA, NH
Sampler: Dylan Bush
Company: SOVEREIGN
BID Reference:

Project Manager: MARK HENDERSON
Report to:
Invoice to: SAME
Phone: 603.856.8844
E-Mail: mhenderson@sovcon.com

Sample Information

AAI Work Order #	Sample ID	Sample Collection Time	Sample Matrix	Number of Containers	EPA 8260 w/ oxygenates	BTEX / MTBE	BTEX+MTBE+Naphthalene	Chlorinated only	EPA 524.2 Drinking Water	EDB	1,4 Dioxane	EPA 8270 A-B/N	EPA 8270 PAH	EPA 8015M Gasoline	EPA 8100M Fuel Oil	Fingerprint	RCRA 8	Filtered:	Lab Filtered:	Total	Zero Headspace Extraction (ZHE)	TCL Pesticides	TCL Herbicides	TCL Metals	PCB	EPA 1030/1846-7 Reactivity	EPA 1010 Flashpoint / Ignitab	EPA 150.1 / 9045 pH	Alkalinity	Nitrate	Sulfate	Chloride	HEX CHROME	TOTAL CHROME
13100006-01	SS-1	9-30-13/12:20	S	2									X																				X	X
-02	SS-2	14:25											X																				X	X
-03	SS-3	15:25											X																				X	X
-04	SS-4	16:00											X																				X	X
-05	SS-5	16:30											X																				X	X

NEW AAI # 13100072-01, -02, -03, -04, -05

Relinquished by:	Date:	Received by:
Dylan Bush	9-30-13 Time: ~~17:10~~ 17:15	[signature]
Relinquished by:	Date: TM Time:	Received by:
Relinquished by:	Date: Time:	Received by:

Notes:

Temperature 6 °C BDFF on ice

Is this N.H. "ODD Fund" related? Y____ N____

Aquarian Analytical will subcontract those tests we do not perform with your prior approval

Please keep samples on ice from the time of collection

Sample Receipt Conditions & Client Conversations

Formerly 1310006-01 Thru 05

AAI #s 1310072 Date 9-30-13 Rec Time 1715

Client Sovereign Contact Marti Henderson

Project F. Bean Rd - Laconia, NH

Sample received at 6 °C BDFF on ice

Phone call 10-17-13 @ 1100

Discrepancy Mark called and requested Chromium additional testing for Total ~~Arsenic~~ TM on all five samples ... Normal TAT on ...

Resolution

Changes

F010-1

Aquarian Analytical, Inc.
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17 October 2013

Mr. Mark Henderson
Sovereign Consulting, Inc.
7 Hills Avenue
Concord, NH 03301

RE: Frank Bean Road - Laconia, NH

Dear Mr. Henderson:

Enclosed are the results of analyses for the following samples, which were received at 2 c.

Laboratory ID	Sample ID	Sample matrix	Date sampled	Date received
1310029-01	**SB-118/MW**	Water	01-Oct-13 10:18	07-Oct-13 08:45
1310029-02	**SB-109/MW**	Water	01-Oct-13 12:10	07-Oct-13 08:45
1310029-03	**SB-108/MW**	Water	01-Oct-13 13:04	07-Oct-13 08:45
1310029-04	**SB-107/MW**	Water	01-Oct-13 13:50	07-Oct-13 08:45
1310029-05	**SB-105/MW**	Water	01-Oct-13 14:34	07-Oct-13 08:45

The results in this report relate only to the submitted samples. Please refer to our website listed above for a list of accredited parameters. If you have any questions concerning this report, please feel free to contact me.

Alan G. Naber

Laboratory Director

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Sovereign Consulting, Inc.	Project: Frank Bean Road - Laconia, NH	
7 Hills Avenue	Project Number: NH011	**Reported:**
Concord NH, 03301	Project Manager: Mr. Mark Henderson	17-Oct-13 16:16

SB-118/MW
1310029-01 (Water)

Sampled: 1-Oct-13

Volatile Organic Compounds by EPA 8260B

Analyte	CAS Number	Result	Reporting Limit	Units	Analyzed	Notes
Acetone	67-64-1	BD	50	ug/L	08-Oct-13	
Benzene	71-43-2	BD	0.8	ug/L	08-Oct-13	
Bromobenzene	108-86-1	BD	2.0	ug/L	08-Oct-13	
Bromochloromethane	74-97-5	BD	2.0	ug/L	08-Oct-13	
Bromodichloromethane	75-27-4	BD	2.0	ug/L	08-Oct-13	
Bromoform	75-25-2	BD	2.0	ug/L	08-Oct-13	
Bromomethane	74-83-9	BD	2.0	ug/L	08-Oct-13	
Butylbenzene, n-	104-51-8	BD	2.0	ug/L	08-Oct-13	
Butylbenzene, sec-	135-98-8	BD	2.0	ug/L	08-Oct-13	
Butylbenzene, tert-	98-06-6	BD	2.0	ug/L	08-Oct-13	
Carbon disulfide	75-15-0	BD	8.0	ug/L	08-Oct-13	
Carbon Tetrachloride	56-23-5	BD	2.0	ug/L	08-Oct-13	
Chloroethane	75-00-3	BD	2.0	ug/L	08-Oct-13	
Chloromethane	74-87-3	BD	4.0	ug/L	08-Oct-13	
Chlorotoluene, 2	95-49-8	BD	2.0	ug/L	08-Oct-13	
Chlorotoluene, 4	106-43-4	BD	2.0	ug/L	08-Oct-13	
Dibromochloromethane	124-48-1	BD	2.0	ug/L	08-Oct-13	
Dibromochloropropane	96-12-8	BD	4.0	ug/L	08-Oct-13	
Dibromomethane	74-95-3	BD	2.0	ug/L	08-Oct-13	
Dichlorobenzene, 1,2-	95-50-1	BD	2.0	ug/L	08-Oct-13	
Dichlorobenzene, 1,3-	541-73-1	BD	2.0	ug/L	08-Oct-13	
Dichlorobenzene, 1,4-	106-46-7	BD	2.0	ug/L	08-Oct-13	
Dichlorodifluoromethane	75-71-8	BD	4.0	ug/L	08-Oct-13	
Dichloroethane, 1,1-	75-34-3	BD	2.0	ug/L	08-Oct-13	
Dichloroethane, 1,2-	107-06-2	BD	2.0	ug/L	08-Oct-13	
Dichloroethylene, 1,1-	75-35-4	BD	2.0	ug/L	08-Oct-13	
Dichloroethylene, cis-1,2-	156-59-2	BD	2.0	ug/L	08-Oct-13	
Dichloroethylene, trans-1,2-	156-60-5	BD	2.0	ug/L	08-Oct-13	
Dichloromethane	75-09-2	BD	4.0	ug/L	08-Oct-13	
Dichloropropane, 1,2-	78-87-5	BD	2.0	ug/L	08-Oct-13	
Dichloropropane, 1,3-	142-28-9	BD	2.0	ug/L	08-Oct-13	
Dichloropropane, 2,2-	594-20-7	BD	6.0	ug/L	08-Oct-13	
Dichloropropene, 1,1-	563-58-6	BD	2.0	ug/L	08-Oct-13	
Dichloropropene, cis-1,3-	10061-01-5	BD	2.0	ug/L	08-Oct-13	
Dichloropropene, trans-1,3-	10061-02-6	BD	2.0	ug/L	08-Oct-13	
Diethyl Ether	60-29-7	BD	50	ug/L	08-Oct-13	
Diisopropyl Ether	108-20-3	BD	2.0	ug/L	08-Oct-13	
Ethylbenzene	100-41-4	BD	2.0	ug/L	08-Oct-13	
Ethylene dibromide	106-93-4	BD	2.0	ug/L	08-Oct-13	
Ethyl tert-Butyl Ether	637-92-3	BD	2.0	ug/L	08-Oct-13	

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Sovereign Consulting, Inc.	Project: Frank Bean Road - Laconia, NH	
7 Hills Avenue	Project Number: NH011	**Reported:**
Concord NH, 03301	Project Manager: Mr. Mark Henderson	17-Oct-13 16:16

SB-118/MW
1310029-01 (Water)

Sampled: 1-Oct-13

Volatile Organic Compounds by EPA 8260B

Analyte	CAS Number	Result	Reporting Limit	Units	Analyzed	Notes
Hexachlorobutadiene	87-68-3	BD	4.0	ug/L	08-Oct-13	
Isopropylbenzene	98-82-8	BD	2.0	ug/L	08-Oct-13	
Isopropyltoluene, p-	99-87-6	BD	2.0	ug/L	08-Oct-13	
Methyl Butyl Ketone (2-Hexanone)	591-78-6	BD	50	ug/L	08-Oct-13	
Methyl Ethyl Ketone (2-Butanone)	78-93-3	BD	50	ug/L	08-Oct-13	
Methyl Isobutyl Ketone	108-10-1	BD	50	ug/L	08-Oct-13	
Methyl-tert-Butyl Ether	1634-04-4	BD	0.8	ug/L	08-Oct-13	
Monochlorobenzene	108-90-7	BD	2.0	ug/L	08-Oct-13	
Naphthalene	91-20-3	BD	4.0	ug/L	08-Oct-13	
n-Propylbenzene	103-65-1	BD	2.0	ug/L	08-Oct-13	
Styrene	100-42-5	BD	2.0	ug/L	08-Oct-13	
tert-Amyl Methyl Ether	994-05-8	BD	4.0	ug/L	08-Oct-13	
tert-Butyl alcohol	75-65-0	BD	20	ug/L	08-Oct-13	
Tetrachloroethane, 1,1,1,2-	630-20-6	BD	2.0	ug/L	08-Oct-13	
Tetrachloroethane, 1,1,2,2-	79-34-5	BD	2.0	ug/L	08-Oct-13	
Tetrachloroethylene	127-18-4	BD	2.0	ug/L	08-Oct-13	
Tetrahydrofuran	109-99-9	BD	50	ug/L	08-Oct-13	
Toluene	108-88-3	BD	2.0	ug/L	08-Oct-13	
Trichlorobenzene, 1,2,3-	87-61-6	BD	4.0	ug/L	08-Oct-13	
Trichlorobenzene, 1,2,4-	120-82-1	BD	4.0	ug/L	08-Oct-13	
Trichlorobenzene, 1,3,5-	108-70-3	BD	4.0	ug/L	08-Oct-13	
Trichloroethane, 1,1,1-	71-55-6	BD	2.0	ug/L	08-Oct-13	
Trichloroethane, 1,1,2-	79-00-5	BD	2.0	ug/L	08-Oct-13	
Trichloroethylene	79-01-6	BD	0.8	ug/L	08-Oct-13	
Trichloro 1,1,2-, trifluoro 1,2,2-, ethane	76-13-1	BD	4.0	ug/L	08-Oct-13	
Trichlorofluoromethane	75-69-4	BD	4.0	ug/L	08-Oct-13	
Trichloromethane	67-66-3	BD	2.0	ug/L	08-Oct-13	
Trichloropropane, 1,2,3-	96-18-4	BD	2.0	ug/L	08-Oct-13	
Trimethylbenzene, 1,2,4-	95-63-6	BD	2.0	ug/L	08-Oct-13	
Trimethylbenzene, 1,3,5-	108-67-8	BD	2.0	ug/L	08-Oct-13	
Vinyl chloride	75-01-4	BD	0.8	ug/L	08-Oct-13	
Xylenes, m & p-	108-38-3,106-42-3	BD	4.0	ug/L	08-Oct-13	
Xylenes, o-	95-47-6	BD	2.0	ug/L	08-Oct-13	

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Sovereign Consulting, Inc.	Project: Frank Bean Road - Laconia, NH	
7 Hills Avenue	Project Number: NH011	**Reported:**
Concord NH, 03301	Project Manager: Mr. Mark Henderson	17-Oct-13 16:16

SB-118/MW
1310029-01 (Water)

Sampled: 1-Oct-13

Polycyclic Aromatic Hydrocarbons

Analyte	CAS Number	Result	Reporting Limit	Units	Analyzed	Method	Notes
Acenaphthene	83-32-9	BD	0.50	ug/L	16-Oct-13	8270C	
Acenaphthylene	208-96-8	BD	0.50	ug/L	16-Oct-13	8270C	
Anthracene	120-12-7	BD	0.50	ug/L	16-Oct-13	8270C	
Benzo(a)anthracene	56-55-3	**0.13**	0.10	ug/L	16-Oct-13	8270C	
Benzo(a)pyrene	50-32-8	BD	0.20	ug/L	16-Oct-13	8270C	
Benzo(b)fluoranthene	205-99-2	BD	0.10	ug/L	16-Oct-13	8270C	
Benzo(g,h,i)perylene	191-24-2	BD	0.50	ug/L	16-Oct-13	8270C	
Benzo(k)fluoranthene	207-08-9	BD	0.50	ug/L	16-Oct-13	8270C	
Chrysene	218-01-9	BD	0.50	ug/L	16-Oct-13	8270C	
Dibenz (a,h) anthracene	53-70-3	BD	0.10	ug/L	16-Oct-13	8270C	
Fluoranthene	206-44-0	BD	0.50	ug/L	16-Oct-13	8270C	
Fluorene	86-73-7	BD	0.50	ug/L	16-Oct-13	8270C	
Indeno(1,2,3-cd)pyrene	193-39-5	BD	0.10	ug/L	16-Oct-13	8270C	
Methylnaphthalene, 1-	90-12-0	BD	0.50	ug/L	16-Oct-13	8270C	
Methylnaphthalene, 2-	91-57-6	BD	0.50	ug/L	16-Oct-13	8270C	
Naphthalene	91-20-3	BD	0.50	ug/L	16-Oct-13	8270C	
Phenanthrene	85-01-8	BD	0.50	ug/L	16-Oct-13	8270C	
Pyrene	129-00-0	BD	0.50	ug/L	16-Oct-13	8270C	

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Sovereign Consulting, Inc.	Project: Frank Bean Road - Laconia, NH	
7 Hills Avenue	Project Number: NH011	**Reported:**
Concord NH, 03301	Project Manager: Mr. Mark Henderson	17-Oct-13 16:16

SB-109/MW
1310029-02 (Water)

Sampled: 1-Oct-13

Volatile Organic Compounds by EPA 8260B

Analyte	CAS Number	Result	Reporting Limit	Units	Analyzed	Notes
Acetone	67-64-1	BD	50	ug/L	08-Oct-13	
Benzene	71-43-2	BD	0.8	ug/L	08-Oct-13	
Bromobenzene	108-86-1	BD	2.0	ug/L	08-Oct-13	
Bromochloromethane	74-97-5	BD	2.0	ug/L	08-Oct-13	
Bromodichloromethane	75-27-4	BD	2.0	ug/L	08-Oct-13	
Bromoform	75-25-2	BD	2.0	ug/L	08-Oct-13	
Bromomethane	74-83-9	BD	2.0	ug/L	08-Oct-13	
Butylbenzene, n-	104-51-8	BD	2.0	ug/L	08-Oct-13	
Butylbenzene, sec-	135-98-8	BD	2.0	ug/L	08-Oct-13	
Butylbenzene, tert-	98-06-6	BD	2.0	ug/L	08-Oct-13	
Carbon disulfide	75-15-0	BD	8.0	ug/L	08-Oct-13	
Carbon Tetrachloride	56-23-5	BD	2.0	ug/L	08-Oct-13	
Chloroethane	75-00-3	BD	2.0	ug/L	08-Oct-13	
Chloromethane	74-87-3	BD	4.0	ug/L	08-Oct-13	
Chlorotoluene, 2	95-49-8	BD	2.0	ug/L	08-Oct-13	
Chlorotoluene, 4	106-43-4	BD	2.0	ug/L	08-Oct-13	
Dibromochloromethane	124-48-1	BD	2.0	ug/L	08-Oct-13	
Dibromochloropropane	96-12-8	BD	4.0	ug/L	08-Oct-13	
Dibromomethane	74-95-3	BD	2.0	ug/L	08-Oct-13	
Dichlorobenzene, 1,2-	95-50-1	BD	2.0	ug/L	08-Oct-13	
Dichlorobenzene, 1,3-	541-73-1	BD	2.0	ug/L	08-Oct-13	
Dichlorobenzene, 1,4-	106-46-7	BD	2.0	ug/L	08-Oct-13	
Dichlorodifluoromethane	75-71-8	BD	4.0	ug/L	08-Oct-13	
Dichloroethane, 1,1-	75-34-3	BD	2.0	ug/L	08-Oct-13	
Dichloroethane, 1,2-	107-06-2	BD	2.0	ug/L	08-Oct-13	
Dichloroethylene, 1,1-	75-35-4	BD	2.0	ug/L	08-Oct-13	
Dichloroethylene, cis-1,2-	156-59-2	BD	2.0	ug/L	08-Oct-13	
Dichloroethylene, trans-1,2-	156-60-5	BD	2.0	ug/L	08-Oct-13	
Dichloromethane	75-09-2	BD	4.0	ug/L	08-Oct-13	
Dichloropropane, 1,2-	78-87-5	BD	2.0	ug/L	08-Oct-13	
Dichloropropane, 1,3-	142-28-9	BD	2.0	ug/L	08-Oct-13	
Dichloropropane, 2,2-	594-20-7	BD	6.0	ug/L	08-Oct-13	
Dichloropropene, 1,1-	563-58-6	BD	2.0	ug/L	08-Oct-13	
Dichloropropene, cis-1,3-	10061-01-5	BD	2.0	ug/L	08-Oct-13	
Dichloropropene, trans-1,3-	10061-02-6	BD	2.0	ug/L	08-Oct-13	
Diethyl Ether	60-29-7	BD	50	ug/L	08-Oct-13	
Diisopropyl Ether	108-20-3	BD	2.0	ug/L	08-Oct-13	
Ethylbenzene	100-41-4	BD	2.0	ug/L	08-Oct-13	
Ethylene dibromide	106-93-4	BD	2.0	ug/L	08-Oct-13	
Ethyl tert-Butyl Ether	637-92-3	BD	2.0	ug/L	08-Oct-13	

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Sovereign Consulting, Inc.	Project: Frank Bean Road - Laconia, NH	
7 Hills Avenue	Project Number: NH011	**Reported:**
Concord NH, 03301	Project Manager: Mr. Mark Henderson	17-Oct-13 16:16

SB-109/MW
1310029-02 (Water)

Sampled: 1-Oct-13

Volatile Organic Compounds by EPA 8260B

Analyte	CAS Number	Result	Reporting Limit	Units	Analyzed	Notes
Hexachlorobutadiene	87-68-3	BD	4.0	ug/L	08-Oct-13	
Isopropylbenzene	98-82-8	BD	2.0	ug/L	08-Oct-13	
Isopropyltoluene, p-	99-87-6	BD	2.0	ug/L	08-Oct-13	
Methyl Butyl Ketone (2-Hexanone)	591-78-6	BD	50	ug/L	08-Oct-13	
Methyl Ethyl Ketone (2-Butanone)	78-93-3	BD	50	ug/L	08-Oct-13	
Methyl Isobutyl Ketone	108-10-1	BD	50	ug/L	08-Oct-13	
Methyl-tert-Butyl Ether	1634-04-4	BD	0.8	ug/L	08-Oct-13	
Monochlorobenzene	108-90-7	BD	2.0	ug/L	08-Oct-13	
Naphthalene	91-20-3	BD	4.0	ug/L	08-Oct-13	
n-Propylbenzene	103-65-1	BD	2.0	ug/L	08-Oct-13	
Styrene	100-42-5	BD	2.0	ug/L	08-Oct-13	
tert-Amyl Methyl Ether	994-05-8	BD	4.0	ug/L	08-Oct-13	
tert-Butyl alcohol	75-65-0	BD	20	ug/L	08-Oct-13	
Tetrachloroethane, 1,1,1,2-	630-20-6	BD	2.0	ug/L	08-Oct-13	
Tetrachloroethane, 1,1,2,2-	79-34-5	BD	2.0	ug/L	08-Oct-13	
Tetrachloroethylene	127-18-4	BD	2.0	ug/L	08-Oct-13	
Tetrahydrofuran	109-99-9	BD	50	ug/L	08-Oct-13	
Toluene	108-88-3	BD	2.0	ug/L	08-Oct-13	
Trichlorobenzene, 1,2,3-	87-61-6	BD	4.0	ug/L	08-Oct-13	
Trichlorobenzene, 1,2,4-	120-82-1	BD	4.0	ug/L	08-Oct-13	
Trichlorobenzene, 1,3,5-	108-70-3	BD	4.0	ug/L	08-Oct-13	
Trichloroethane, 1,1,1-	71-55-6	BD	2.0	ug/L	08-Oct-13	
Trichloroethane, 1,1,2-	79-00-5	BD	2.0	ug/L	08-Oct-13	
Trichloroethylene	79-01-6	BD	0.8	ug/L	08-Oct-13	
Trichloro 1,1,2-, trifluoro 1,2,2-, ethane	76-13-1	BD	4.0	ug/L	08-Oct-13	
Trichlorofluoromethane	75-69-4	BD	4.0	ug/L	08-Oct-13	
Trichloromethane	67-66-3	BD	2.0	ug/L	08-Oct-13	
Trichloropropane, 1,2,3-	96-18-4	BD	2.0	ug/L	08-Oct-13	
Trimethylbenzene, 1,2,4-	95-63-6	BD	2.0	ug/L	08-Oct-13	
Trimethylbenzene, 1,3,5-	108-67-8	BD	2.0	ug/L	08-Oct-13	
Vinyl chloride	75-01-4	BD	0.8	ug/L	08-Oct-13	
Xylenes, m & p-	108-38-3,106-42-3	BD	4.0	ug/L	08-Oct-13	
Xylenes, o-	95-47-6	BD	2.0	ug/L	08-Oct-13	

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Laboratory Services

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Sovereign Consulting, Inc.	Project: Frank Bean Road - Laconia, NH	
7 Hills Avenue	Project Number: NH011	**Reported:**
Concord NH, 03301	Project Manager: Mr. Mark Henderson	17-Oct-13 16:16

SB-109/MW
1310029-02 (Water)

Sampled: 1-Oct-13

Polycyclic Aromatic Hydrocarbons

Analyte	CAS Number	Result	Reporting Limit	Units	Analyzed	Method	Notes
Acenaphthene	83-32-9	BD	0.50	ug/L	16-Oct-13	8270C	
Acenaphthylene	208-96-8	BD	0.50	ug/L	16-Oct-13	8270C	
Anthracene	120-12-7	BD	0.50	ug/L	16-Oct-13	8270C	
Benzo(a)anthracene	56-55-3	**0.30**	0.10	ug/L	16-Oct-13	8270C	
Benzo(a)pyrene	50-32-8	BD	0.20	ug/L	16-Oct-13	8270C	
Benzo(b)fluoranthene	205-99-2	**0.11**	0.10	ug/L	16-Oct-13	8270C	
Benzo(g,h,i)perylene	191-24-2	BD	0.50	ug/L	16-Oct-13	8270C	
Benzo(k)fluoranthene	207-08-9	BD	0.50	ug/L	16-Oct-13	8270C	
Chrysene	218-01-9	BD	0.50	ug/L	16-Oct-13	8270C	
Dibenz (a,h) anthracene	53-70-3	BD	0.10	ug/L	16-Oct-13	8270C	
Fluoranthene	206-44-0	BD	0.50	ug/L	16-Oct-13	8270C	
Fluorene	86-73-7	BD	0.50	ug/L	16-Oct-13	8270C	
Indeno(1,2,3-cd)pyrene	193-39-5	BD	0.10	ug/L	16-Oct-13	8270C	
Methylnaphthalene, 1-	90-12-0	BD	0.50	ug/L	16-Oct-13	8270C	
Methylnaphthalene, 2-	91-57-6	BD	0.50	ug/L	16-Oct-13	8270C	
Naphthalene	91-20-3	BD	0.50	ug/L	16-Oct-13	8270C	
Phenanthrene	85-01-8	BD	0.50	ug/L	16-Oct-13	8270C	
Pyrene	129-00-0	BD	0.50	ug/L	16-Oct-13	8270C	

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Sovereign Consulting, Inc.	Project: Frank Bean Road - Laconia, NH	
7 Hills Avenue	Project Number: NH011	**Reported:**
Concord NH, 03301	Project Manager: Mr. Mark Henderson	17-Oct-13 16:16

SB-108/MW
1310029-03 (Water)

Sampled: 1-Oct-13

Volatile Organic Compounds by EPA 8260B

Analyte	CAS Number	Result	Reporting Limit	Units	Analyzed	Notes
Acetone	67-64-1	BD	50	ug/L	08-Oct-13	
Benzene	71-43-2	BD	0.8	ug/L	08-Oct-13	
Bromobenzene	108-86-1	BD	2.0	ug/L	08-Oct-13	
Bromochloromethane	74-97-5	BD	2.0	ug/L	08-Oct-13	
Bromodichloromethane	75-27-4	BD	2.0	ug/L	08-Oct-13	
Bromoform	75-25-2	BD	2.0	ug/L	08-Oct-13	
Bromomethane	74-83-9	BD	2.0	ug/L	08-Oct-13	
Butylbenzene, n-	104-51-8	BD	2.0	ug/L	08-Oct-13	
Butylbenzene, sec-	135-98-8	BD	2.0	ug/L	08-Oct-13	
Butylbenzene, tert-	98-06-6	BD	2.0	ug/L	08-Oct-13	
Carbon disulfide	75-15-0	BD	8.0	ug/L	08-Oct-13	
Carbon Tetrachloride	56-23-5	BD	2.0	ug/L	08-Oct-13	
Chloroethane	75-00-3	BD	2.0	ug/L	08-Oct-13	
Chloromethane	74-87-3	BD	4.0	ug/L	08-Oct-13	
Chlorotoluene, 2	95-49-8	BD	2.0	ug/L	08-Oct-13	
Chlorotoluene, 4	106-43-4	BD	2.0	ug/L	08-Oct-13	
Dibromochloromethane	124-48-1	BD	2.0	ug/L	08-Oct-13	
Dibromochloropropane	96-12-8	BD	4.0	ug/L	08-Oct-13	
Dibromomethane	74-95-3	BD	2.0	ug/L	08-Oct-13	
Dichlorobenzene, 1,2-	95-50-1	BD	2.0	ug/L	08-Oct-13	
Dichlorobenzene, 1,3-	541-73-1	BD	2.0	ug/L	08-Oct-13	
Dichlorobenzene, 1,4-	106-46-7	BD	2.0	ug/L	08-Oct-13	
Dichlorodifluoromethane	75-71-8	BD	4.0	ug/L	08-Oct-13	
Dichloroethane, 1,1-	75-34-3	BD	2.0	ug/L	08-Oct-13	
Dichloroethane, 1,2-	107-06-2	BD	2.0	ug/L	08-Oct-13	
Dichloroethylene, 1,1-	75-35-4	BD	2.0	ug/L	08-Oct-13	
Dichloroethylene, cis-1,2-	156-59-2	BD	2.0	ug/L	08-Oct-13	
Dichloroethylene, trans-1,2-	156-60-5	BD	2.0	ug/L	08-Oct-13	
Dichloromethane	75-09-2	BD	4.0	ug/L	08-Oct-13	
Dichloropropane, 1,2-	78-87-5	BD	2.0	ug/L	08-Oct-13	
Dichloropropane, 1,3-	142-28-9	BD	2.0	ug/L	08-Oct-13	
Dichloropropane, 2,2-	594-20-7	BD	6.0	ug/L	08-Oct-13	
Dichloropropene, 1,1-	563-58-6	BD	2.0	ug/L	08-Oct-13	
Dichloropropene, cis-1,3-	10061-01-5	BD	2.0	ug/L	08-Oct-13	
Dichloropropene, trans-1,3-	10061-02-6	BD	2.0	ug/L	08-Oct-13	
Diethyl Ether	60-29-7	BD	50	ug/L	08-Oct-13	
Diisopropyl Ether	108-20-3	BD	2.0	ug/L	08-Oct-13	
Ethylbenzene	100-41-4	BD	2.0	ug/L	08-Oct-13	
Ethylene dibromide	106-93-4	BD	2.0	ug/L	08-Oct-13	
Ethyl tert-Butyl Ether	637-92-3	BD	2.0	ug/L	08-Oct-13	

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Sovereign Consulting, Inc.	Project: Frank Bean Road - Laconia, NH	
7 Hills Avenue	Project Number: NH011	**Reported:**
Concord NH, 03301	Project Manager: Mr. Mark Henderson	17-Oct-13 16:16

SB-108/MW
1310029-03 (Water)

Sampled: 1-Oct-13

Volatile Organic Compounds by EPA 8260B

Analyte	CAS Number	Result	Reporting Limit	Units	Analyzed	Notes
Hexachlorobutadiene	87-68-3	BD	4.0	ug/L	08-Oct-13	
Isopropylbenzene	98-82-8	BD	2.0	ug/L	08-Oct-13	
Isopropyltoluene, p-	99-87-6	BD	2.0	ug/L	08-Oct-13	
Methyl Butyl Ketone (2-Hexanone)	591-78-6	BD	50	ug/L	08-Oct-13	
Methyl Ethyl Ketone (2-Butanone)	78-93-3	BD	50	ug/L	08-Oct-13	
Methyl Isobutyl Ketone	108-10-1	BD	50	ug/L	08-Oct-13	
Methyl-tert-Butyl Ether	1634-04-4	BD	0.8	ug/L	08-Oct-13	
Monochlorobenzene	108-90-7	BD	2.0	ug/L	08-Oct-13	
Naphthalene	91-20-3	BD	4.0	ug/L	08-Oct-13	
n-Propylbenzene	103-65-1	BD	2.0	ug/L	08-Oct-13	
Styrene	100-42-5	BD	2.0	ug/L	08-Oct-13	
tert-Amyl Methyl Ether	994-05-8	BD	4.0	ug/L	08-Oct-13	
tert-Butyl alcohol	75-65-0	BD	20	ug/L	08-Oct-13	
Tetrachloroethane, 1,1,1,2-	630-20-6	BD	2.0	ug/L	08-Oct-13	
Tetrachloroethane, 1,1,2,2-	79-34-5	BD	2.0	ug/L	08-Oct-13	
Tetrachloroethylene	127-18-4	BD	2.0	ug/L	08-Oct-13	
Tetrahydrofuran	109-99-9	BD	50	ug/L	08-Oct-13	
Toluene	108-88-3	BD	2.0	ug/L	08-Oct-13	
Trichlorobenzene, 1,2,3-	87-61-6	BD	4.0	ug/L	08-Oct-13	
Trichlorobenzene, 1,2,4-	120-82-1	BD	4.0	ug/L	08-Oct-13	
Trichlorobenzene, 1,3,5-	108-70-3	BD	4.0	ug/L	08-Oct-13	
Trichloroethane, 1,1,1-	71-55-6	BD	2.0	ug/L	08-Oct-13	
Trichloroethane, 1,1,2-	79-00-5	BD	2.0	ug/L	08-Oct-13	
Trichloroethylene	79-01-6	BD	0.8	ug/L	08-Oct-13	
Trichloro 1,1,2-, trifluoro 1,2,2-, ethane	76-13-1	BD	4.0	ug/L	08-Oct-13	
Trichlorofluoromethane	75-69-4	BD	4.0	ug/L	08-Oct-13	
Trichloromethane	67-66-3	BD	2.0	ug/L	08-Oct-13	
Trichloropropane, 1,2,3-	96-18-4	BD	2.0	ug/L	08-Oct-13	
Trimethylbenzene, 1,2,4-	95-63-6	BD	2.0	ug/L	08-Oct-13	
Trimethylbenzene, 1,3,5-	108-67-8	BD	2.0	ug/L	08-Oct-13	
Vinyl chloride	75-01-4	BD	0.8	ug/L	08-Oct-13	
Xylenes, m & p-	108-38-3,106-42-3	BD	4.0	ug/L	08-Oct-13	
Xylenes, o-	95-47-6	BD	2.0	ug/L	08-Oct-13	

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Sovereign Consulting, Inc.	Project: Frank Bean Road - Laconia, NH	
7 Hills Avenue	Project Number: NH011	**Reported:**
Concord NH, 03301	Project Manager: Mr. Mark Henderson	17-Oct-13 16:16

SB-108/MW
1310029-03 (Water)

Sampled: 1-Oct-13

Polycyclic Aromatic Hydrocarbons

Analyte	CAS Number	Result	Reporting Limit	Units	Analyzed	Method	Notes
Acenaphthene	83-32-9	BD	0.50	ug/L	16-Oct-13	8270C	
Acenaphthylene	208-96-8	BD	0.50	ug/L	16-Oct-13	8270C	
Anthracene	120-12-7	BD	0.50	ug/L	16-Oct-13	8270C	
Benzo(a)anthracene	56-55-3	**0.12**	0.10	ug/L	16-Oct-13	8270C	
Benzo(a)pyrene	50-32-8	BD	0.20	ug/L	16-Oct-13	8270C	
Benzo(b)fluoranthene	205-99-2	BD	0.10	ug/L	16-Oct-13	8270C	
Benzo(g,h,i)perylene	191-24-2	BD	0.50	ug/L	16-Oct-13	8270C	
Benzo(k)fluoranthene	207-08-9	BD	0.50	ug/L	16-Oct-13	8270C	
Chrysene	218-01-9	BD	0.50	ug/L	16-Oct-13	8270C	
Dibenz (a,h) anthracene	53-70-3	BD	0.10	ug/L	16-Oct-13	8270C	
Fluoranthene	206-44-0	BD	0.50	ug/L	16-Oct-13	8270C	
Fluorene	86-73-7	BD	0.50	ug/L	16-Oct-13	8270C	
Indeno(1,2,3-cd)pyrene	193-39-5	BD	0.10	ug/L	16-Oct-13	8270C	
Methylnaphthalene, 1-	90-12-0	BD	0.50	ug/L	16-Oct-13	8270C	
Methylnaphthalene, 2-	91-57-6	BD	0.50	ug/L	16-Oct-13	8270C	
Naphthalene	91-20-3	BD	0.50	ug/L	16-Oct-13	8270C	
Phenanthrene	85-01-8	BD	0.50	ug/L	16-Oct-13	8270C	
Pyrene	129-00-0	BD	0.50	ug/L	16-Oct-13	8270C	

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Sovereign Consulting, Inc.	Project: Frank Bean Road - Laconia, NH	
7 Hills Avenue	Project Number: NH011	**Reported:**
Concord NH, 03301	Project Manager: Mr. Mark Henderson	17-Oct-13 16:16

SB-107/MW
1310029-04 (Water)

Sampled: 1-Oct-13

Volatile Organic Compounds by EPA 8260B

Analyte	CAS Number	Result	Reporting Limit	Units	Analyzed	Notes
Acetone	67-64-1	BD	50	ug/L	08-Oct-13	
Benzene	71-43-2	BD	0.8	ug/L	08-Oct-13	
Bromobenzene	108-86-1	BD	2.0	ug/L	08-Oct-13	
Bromochloromethane	74-97-5	BD	2.0	ug/L	08-Oct-13	
Bromodichloromethane	75-27-4	BD	2.0	ug/L	08-Oct-13	
Bromoform	75-25-2	BD	2.0	ug/L	08-Oct-13	
Bromomethane	74-83-9	BD	2.0	ug/L	08-Oct-13	
Butylbenzene, n-	104-51-8	**6.0**	2.0	ug/L	08-Oct-13	
Butylbenzene, sec-	135-98-8	**4.3**	2.0	ug/L	08-Oct-13	
Butylbenzene, tert-	98-06-6	BD	2.0	ug/L	08-Oct-13	
Carbon disulfide	75-15-0	BD	8.0	ug/L	08-Oct-13	
Carbon Tetrachloride	56-23-5	BD	2.0	ug/L	08-Oct-13	
Chloroethane	75-00-3	BD	2.0	ug/L	08-Oct-13	
Chloromethane	74-87-3	BD	4.0	ug/L	08-Oct-13	
Chlorotoluene, 2	95-49-8	BD	2.0	ug/L	08-Oct-13	
Chlorotoluene, 4	106-43-4	BD	2.0	ug/L	08-Oct-13	
Dibromochloromethane	124-48-1	BD	2.0	ug/L	08-Oct-13	
Dibromochloropropane	96-12-8	BD	4.0	ug/L	08-Oct-13	
Dibromomethane	74-95-3	BD	2.0	ug/L	08-Oct-13	
Dichlorobenzene, 1,2-	95-50-1	**20**	2.0	ug/L	08-Oct-13	
Dichlorobenzene, 1,3-	541-73-1	BD	2.0	ug/L	08-Oct-13	
Dichlorobenzene, 1,4-	106-46-7	**4.3**	2.0	ug/L	08-Oct-13	
Dichlorodifluoromethane	75-71-8	BD	4.0	ug/L	08-Oct-13	
Dichloroethane, 1,1-	75-34-3	BD	2.0	ug/L	08-Oct-13	
Dichloroethane, 1,2-	107-06-2	BD	2.0	ug/L	08-Oct-13	
Dichloroethylene, 1,1-	75-35-4	BD	2.0	ug/L	08-Oct-13	
Dichloroethylene, cis-1,2-	156-59-2	BD	2.0	ug/L	08-Oct-13	
Dichloroethylene, trans-1,2-	156-60-5	BD	2.0	ug/L	08-Oct-13	
Dichloromethane	75-09-2	BD	4.0	ug/L	08-Oct-13	
Dichloropropane, 1,2-	78-87-5	BD	2.0	ug/L	08-Oct-13	
Dichloropropane, 1,3-	142-28-9	BD	2.0	ug/L	08-Oct-13	
Dichloropropane, 2,2-	594-20-7	BD	6.0	ug/L	08-Oct-13	
Dichloropropene, 1,1-	563-58-6	BD	2.0	ug/L	08-Oct-13	
Dichloropropene, cis-1,3-	10061-01-5	BD	2.0	ug/L	08-Oct-13	
Dichloropropene, trans-1,3-	10061-02-6	BD	2.0	ug/L	08-Oct-13	
Diethyl Ether	60-29-7	BD	50	ug/L	08-Oct-13	
Diisopropyl Ether	108-20-3	BD	2.0	ug/L	08-Oct-13	
Ethylbenzene	100-41-4	BD	2.0	ug/L	08-Oct-13	
Ethylene dibromide	106-93-4	BD	2.0	ug/L	08-Oct-13	
Ethyl tert-Butyl Ether	637-92-3	BD	2.0	ug/L	08-Oct-13	

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Sovereign Consulting, Inc.	Project: Frank Bean Road - Laconia, NH	
7 Hills Avenue	Project Number: NH011	**Reported:**
Concord NH, 03301	Project Manager: Mr. Mark Henderson	17-Oct-13 16:16

SB-107/MW
1310029-04 (Water)

Sampled: 1-Oct-13

Volatile Organic Compounds by EPA 8260B

Analyte	CAS Number	Result	Reporting Limit	Units	Analyzed	Notes
Hexachlorobutadiene	87-68-3	BD	4.0	ug/L	08-Oct-13	
Isopropylbenzene	98-82-8	**8.0**	2.0	ug/L	08-Oct-13	
Isopropyltoluene, p-	99-87-6	**7.8**	2.0	ug/L	08-Oct-13	
Methyl Butyl Ketone (2-Hexanone)	591-78-6	BD	50	ug/L	08-Oct-13	
Methyl Ethyl Ketone (2-Butanone)	78-93-3	BD	50	ug/L	08-Oct-13	
Methyl Isobutyl Ketone	108-10-1	BD	50	ug/L	08-Oct-13	
Methyl-tert-Butyl Ether	1634-04-4	BD	0.8	ug/L	08-Oct-13	
Monochlorobenzene	108-90-7	BD	2.0	ug/L	08-Oct-13	
Naphthalene	91-20-3	**21**	4.0	ug/L	08-Oct-13	
n-Propylbenzene	103-65-1	**15**	2.0	ug/L	08-Oct-13	
Styrene	100-42-5	BD	2.0	ug/L	08-Oct-13	
tert-Amyl Methyl Ether	994-05-8	BD	4.0	ug/L	08-Oct-13	
tert-Butyl alcohol	75-65-0	BD	20	ug/L	08-Oct-13	
Tetrachloroethane, 1,1,1,2-	630-20-6	BD	2.0	ug/L	08-Oct-13	
Tetrachloroethane, 1,1,2,2-	79-34-5	BD	2.0	ug/L	08-Oct-13	
Tetrachloroethylene	127-18-4	BD	2.0	ug/L	08-Oct-13	
Tetrahydrofuran	109-99-9	BD	50	ug/L	08-Oct-13	
Toluene	108-88-3	BD	2.0	ug/L	08-Oct-13	
Trichlorobenzene, 1,2,3-	87-61-6	BD	4.0	ug/L	08-Oct-13	
Trichlorobenzene, 1,2,4-	120-82-1	BD	4.0	ug/L	08-Oct-13	
Trichlorobenzene, 1,3,5-	108-70-3	BD	4.0	ug/L	08-Oct-13	
Trichloroethane, 1,1,1-	71-55-6	BD	2.0	ug/L	08-Oct-13	
Trichloroethane, 1,1,2-	79-00-5	BD	2.0	ug/L	08-Oct-13	
Trichloroethylene	79-01-6	**1.1**	0.8	ug/L	08-Oct-13	
Trichloro 1,1,2-, trifluoro 1,2,2-, ethane	76-13-1	BD	4.0	ug/L	08-Oct-13	
Trichlorofluoromethane	75-69-4	BD	4.0	ug/L	08-Oct-13	
Trichloromethane	67-66-3	BD	2.0	ug/L	08-Oct-13	
Trichloropropane, 1,2,3-	96-18-4	BD	2.0	ug/L	08-Oct-13	
Trimethylbenzene, 1,2,4-	95-63-6	**5.9**	2.0	ug/L	08-Oct-13	
Trimethylbenzene, 1,3,5-	108-67-8	**6.6**	2.0	ug/L	08-Oct-13	
Vinyl chloride	75-01-4	**2.0**	0.8	ug/L	08-Oct-13	
Xylenes, m & p-	108-38-3,106-42-3	BD	4.0	ug/L	08-Oct-13	
Xylenes, o-	95-47-6	BD	2.0	ug/L	08-Oct-13	

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Sovereign Consulting, Inc.	Project: Frank Bean Road - Laconia, NH	
7 Hills Avenue	Project Number: NH011	**Reported:**
Concord NH, 03301	Project Manager: Mr. Mark Henderson	17-Oct-13 16:16

SB-107/MW
1310029-04 (Water)

Sampled: 1-Oct-13

Polycyclic Aromatic Hydrocarbons

Analyte	CAS Number	Result	Reporting Limit	Units	Analyzed	Method	Notes
Acenaphthene	83-32-9	**0.57**	0.50	ug/L	16-Oct-13	8270C	
Acenaphthylene	208-96-8	BD	0.50	ug/L	16-Oct-13	8270C	
Anthracene	120-12-7	BD	0.50	ug/L	16-Oct-13	8270C	
Benzo(a)anthracene	56-55-3	BD	0.10	ug/L	16-Oct-13	8270C	
Benzo(a)pyrene	50-32-8	BD	0.20	ug/L	16-Oct-13	8270C	
Benzo(b)fluoranthene	205-99-2	BD	0.10	ug/L	16-Oct-13	8270C	
Benzo(g,h,i)perylene	191-24-2	BD	0.50	ug/L	16-Oct-13	8270C	
Benzo(k)fluoranthene	207-08-9	BD	0.50	ug/L	16-Oct-13	8270C	
Chrysene	218-01-9	BD	0.50	ug/L	16-Oct-13	8270C	
Dibenz (a,h) anthracene	53-70-3	BD	0.10	ug/L	16-Oct-13	8270C	
Fluoranthene	206-44-0	BD	0.50	ug/L	16-Oct-13	8270C	
Fluorene	86-73-7	**1.6**	0.50	ug/L	16-Oct-13	8270C	
Indeno(1,2,3-cd)pyrene	193-39-5	BD	0.10	ug/L	16-Oct-13	8270C	
Methylnaphthalene, 1-	90-12-0	**19**	0.50	ug/L	16-Oct-13	8270C	
Methylnaphthalene, 2-	91-57-6	BD	0.50	ug/L	16-Oct-13	8270C	
Naphthalene	91-20-3	**13**	0.50	ug/L	16-Oct-13	8270C	
Phenanthrene	85-01-8	**1.9**	0.50	ug/L	16-Oct-13	8270C	
Pyrene	129-00-0	BD	0.50	ug/L	16-Oct-13	8270C	

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Laboratory Services
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Sovereign Consulting, Inc.	Project: Frank Bean Road - Laconia, NH	
7 Hills Avenue	Project Number: NH011	**Reported:**
Concord NH, 03301	Project Manager: Mr. Mark Henderson	17-Oct-13 16:16

SB-105/MW
1310029-05 (Water)

Sampled: 1-Oct-13

Volatile Organic Compounds by EPA 8260B

Analyte	CAS Number	Result	Reporting Limit	Units	Analyzed	Notes
Acetone	67-64-1	BD	50	ug/L	09-Oct-13	
Benzene	71-43-2	BD	0.8	ug/L	09-Oct-13	
Bromobenzene	108-86-1	BD	2.0	ug/L	09-Oct-13	
Bromochloromethane	74-97-5	BD	2.0	ug/L	09-Oct-13	
Bromodichloromethane	75-27-4	BD	2.0	ug/L	09-Oct-13	
Bromoform	75-25-2	BD	2.0	ug/L	09-Oct-13	
Bromomethane	74-83-9	BD	2.0	ug/L	09-Oct-13	
Butylbenzene, n-	104-51-8	**3.7**	2.0	ug/L	09-Oct-13	
Butylbenzene, sec-	135-98-8	**3.0**	2.0	ug/L	09-Oct-13	
Butylbenzene, tert-	98-06-6	BD	2.0	ug/L	09-Oct-13	
Carbon disulfide	75-15-0	BD	8.0	ug/L	09-Oct-13	
Carbon Tetrachloride	56-23-5	BD	2.0	ug/L	09-Oct-13	
Chloroethane	75-00-3	BD	2.0	ug/L	09-Oct-13	
Chloromethane	74-87-3	BD	4.0	ug/L	09-Oct-13	
Chlorotoluene, 2	95-49-8	BD	2.0	ug/L	09-Oct-13	
Chlorotoluene, 4	106-43-4	BD	2.0	ug/L	09-Oct-13	
Dibromochloromethane	124-48-1	BD	2.0	ug/L	09-Oct-13	
Dibromochloropropane	96-12-8	BD	4.0	ug/L	09-Oct-13	
Dibromomethane	74-95-3	BD	2.0	ug/L	09-Oct-13	
Dichlorobenzene, 1,2-	95-50-1	**17**	2.0	ug/L	09-Oct-13	
Dichlorobenzene, 1,3-	541-73-1	BD	2.0	ug/L	09-Oct-13	
Dichlorobenzene, 1,4-	106-46-7	**2.1**	2.0	ug/L	09-Oct-13	
Dichlorodifluoromethane	75-71-8	BD	4.0	ug/L	09-Oct-13	
Dichloroethane, 1,1-	75-34-3	BD	2.0	ug/L	09-Oct-13	
Dichloroethane, 1,2-	107-06-2	BD	2.0	ug/L	09-Oct-13	
Dichloroethylene, 1,1-	75-35-4	BD	2.0	ug/L	09-Oct-13	
Dichloroethylene, cis-1,2-	156-59-2	BD	2.0	ug/L	09-Oct-13	
Dichloroethylene, trans-1,2-	156-60-5	BD	2.0	ug/L	09-Oct-13	
Dichloromethane	75-09-2	BD	4.0	ug/L	09-Oct-13	
Dichloropropane, 1,2-	78-87-5	BD	2.0	ug/L	09-Oct-13	
Dichloropropane, 1,3-	142-28-9	BD	2.0	ug/L	09-Oct-13	
Dichloropropane, 2,2-	594-20-7	BD	6.0	ug/L	09-Oct-13	
Dichloropropene, 1,1-	563-58-6	BD	2.0	ug/L	09-Oct-13	
Dichloropropene, cis-1,3-	10061-01-5	BD	2.0	ug/L	09-Oct-13	
Dichloropropene, trans-1,3-	10061-02-6	BD	2.0	ug/L	09-Oct-13	
Diethyl Ether	60-29-7	BD	50	ug/L	09-Oct-13	
Diisopropyl Ether	108-20-3	BD	2.0	ug/L	09-Oct-13	
Ethylbenzene	100-41-4	BD	2.0	ug/L	09-Oct-13	
Ethylene dibromide	106-93-4	BD	2.0	ug/L	09-Oct-13	
Ethyl tert-Butyl Ether	637-92-3	BD	2.0	ug/L	09-Oct-13	

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Sovereign Consulting, Inc.	Project: Frank Bean Road - Laconia, NH	
7 Hills Avenue	Project Number: NH011	**Reported:**
Concord NH, 03301	Project Manager: Mr. Mark Henderson	17-Oct-13 16:16

SB-105/MW
1310029-05 (Water)

Sampled: 1-Oct-13

Volatile Organic Compounds by EPA 8260B

Analyte	CAS Number	Result	Reporting Limit	Units	Analyzed	Notes
Hexachlorobutadiene	87-68-3	BD	4.0	ug/L	09-Oct-13	
Isopropylbenzene	98-82-8	**5.2**	2.0	ug/L	09-Oct-13	
Isopropyltoluene, p-	99-87-6	BD	2.0	ug/L	09-Oct-13	
Methyl Butyl Ketone (2-Hexanone)	591-78-6	BD	50	ug/L	09-Oct-13	
Methyl Ethyl Ketone (2-Butanone)	78-93-3	BD	50	ug/L	09-Oct-13	
Methyl Isobutyl Ketone	108-10-1	BD	50	ug/L	09-Oct-13	
Methyl-tert-Butyl Ether	1634-04-4	BD	0.8	ug/L	09-Oct-13	
Monochlorobenzene	108-90-7	**6.1**	2.0	ug/L	09-Oct-13	
Naphthalene	91-20-3	BD	4.0	ug/L	09-Oct-13	
n-Propylbenzene	103-65-1	**6.5**	2.0	ug/L	09-Oct-13	
Styrene	100-42-5	BD	2.0	ug/L	09-Oct-13	
tert-Amyl Methyl Ether	994-05-8	BD	4.0	ug/L	09-Oct-13	
tert-Butyl alcohol	75-65-0	BD	20	ug/L	09-Oct-13	
Tetrachloroethane, 1,1,1,2-	630-20-6	BD	2.0	ug/L	09-Oct-13	
Tetrachloroethane, 1,1,2,2-	79-34-5	BD	2.0	ug/L	09-Oct-13	
Tetrachloroethylene	127-18-4	BD	2.0	ug/L	09-Oct-13	
Tetrahydrofuran	109-99-9	BD	50	ug/L	09-Oct-13	
Toluene	108-88-3	BD	2.0	ug/L	09-Oct-13	
Trichlorobenzene, 1,2,3-	87-61-6	BD	4.0	ug/L	09-Oct-13	
Trichlorobenzene, 1,2,4-	120-82-1	BD	4.0	ug/L	09-Oct-13	
Trichlorobenzene, 1,3,5-	108-70-3	BD	4.0	ug/L	09-Oct-13	
Trichloroethane, 1,1,1-	71-55-6	BD	2.0	ug/L	09-Oct-13	
Trichloroethane, 1,1,2-	79-00-5	BD	2.0	ug/L	09-Oct-13	
Trichloroethylene	79-01-6	BD	0.8	ug/L	09-Oct-13	
Trichloro 1,1,2-, trifluoro 1,2,2-, ethane	76-13-1	BD	4.0	ug/L	09-Oct-13	
Trichlorofluoromethane	75-69-4	BD	4.0	ug/L	09-Oct-13	
Trichloromethane	67-66-3	BD	2.0	ug/L	09-Oct-13	
Trichloropropane, 1,2,3-	96-18-4	BD	2.0	ug/L	09-Oct-13	
Trimethylbenzene, 1,2,4-	95-63-6	**6.8**	2.0	ug/L	09-Oct-13	
Trimethylbenzene, 1,3,5-	108-67-8	**3.4**	2.0	ug/L	09-Oct-13	
Vinyl chloride	75-01-4	**3.2**	0.8	ug/L	09-Oct-13	
Xylenes, m & p-	108-38-3,106-42-3	BD	4.0	ug/L	09-Oct-13	
Xylenes, o-	95-47-6	BD	2.0	ug/L	09-Oct-13	

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Sovereign Consulting, Inc.	Project: Frank Bean Road - Laconia, NH	
7 Hills Avenue	Project Number: NH011	**Reported:**
Concord NH, 03301	Project Manager: Mr. Mark Henderson	17-Oct-13 16:16

SB-105/MW
1310029-05 (Water)

Sampled: 1-Oct-13

Polycyclic Aromatic Hydrocarbons

Analyte	CAS Number	Result	Reporting Limit	Units	Analyzed	Method	Notes
Acenaphthene	83-32-9	BD	0.50	ug/L	16-Oct-13	8270C	
Acenaphthylene	208-96-8	BD	0.50	ug/L	16-Oct-13	8270C	
Anthracene	120-12-7	BD	0.50	ug/L	16-Oct-13	8270C	
Benzo(a)anthracene	56-55-3	BD	0.10	ug/L	16-Oct-13	8270C	
Benzo(a)pyrene	50-32-8	BD	0.20	ug/L	16-Oct-13	8270C	
Benzo(b)fluoranthene	205-99-2	BD	0.10	ug/L	16-Oct-13	8270C	
Benzo(g,h,i)perylene	191-24-2	BD	0.50	ug/L	16-Oct-13	8270C	
Benzo(k)fluoranthene	207-08-9	BD	0.50	ug/L	16-Oct-13	8270C	
Chrysene	218-01-9	BD	0.50	ug/L	16-Oct-13	8270C	
Dibenz (a,h) anthracene	53-70-3	BD	0.10	ug/L	16-Oct-13	8270C	
Fluoranthene	206-44-0	BD	0.50	ug/L	16-Oct-13	8270C	
Fluorene	86-73-7	**1.1**	0.50	ug/L	16-Oct-13	8270C	
Indeno(1,2,3-cd)pyrene	193-39-5	BD	0.10	ug/L	16-Oct-13	8270C	
Methylnaphthalene, 1-	90-12-0	**11**	0.50	ug/L	16-Oct-13	8270C	
Methylnaphthalene, 2-	91-57-6	BD	0.50	ug/L	16-Oct-13	8270C	
Naphthalene	91-20-3	**2.0**	0.50	ug/L	16-Oct-13	8270C	
Phenanthrene	85-01-8	**1.1**	0.50	ug/L	16-Oct-13	8270C	
Pyrene	129-00-0	BD	0.50	ug/L	16-Oct-13	8270C	

Notes and Definitions

BD Analyte result below the laboratory reporting limit

NR Not Reported

Soil sample results reported on a dry weight basis.

The reporting limit is the lowest level at which reliable quantitation has been demonstrated.

Analytes in **bold** are values reported above the reporting limit.

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Laboratory Services

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Phone:(603)783-9097
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E-Mail: aquarianlab@comcast.net

Turnaround Requirements (check one)

- RUSH SAMPLES NEED PRIOR APPROVAL
- ____ Same Day Turnaround (150% upcharge)
- ____ One Day Turnaround (100% upcharge)
- ____ Two Day Turnaround (50% upcharge)
- ____ Three Day Turnaround (25% upcharge)
- X Normal turnaround

Project Information

Project #:	NH011	Project Manager:	Mark Henderson
Project Name:	Frank Bean Rd.	Report to:	Sovereign Consulting
Town/Site:	Laconia, NH	Invoice to:	Sovereign Consulting
Sampler:	Dylan Bush	Phone:	603-856-8644
Company:	Sovereign Consulting	E-Mail:	mhenderson@sovcon.com
BID Reference:			

Sample Information / VOC's-SVOC's / TPH / Metals / TCLP / Other (list)

NELAC Qc Y___ N___

AAI Work Order #	Sample ID	Sample Collection Time	Sample Matrix	Number of Containers	EPA 8260 w / oxygenates	BTEX / MTBE	BTEX+MTBE+Naphthalene	Chlorinated only	EPA 524.2 Drinking Water	EDB	1,4 Dioxane	EPA 8270 A-B/N	EPA 8270 PAH	EPA 8015M Gasoline	EPA 8100M Fuel Oil	Fingerprint	RCRA 8	Field Filtered:	Lab Filtered:	Total: 13 PP METALS	Zero Headspace Extraction (ZHE)	TCLP Pesticides	TCLP Herbicides	TCLP Metals	PCB	EPA SW846-7 Reactivity	EPA 1010 Flashpoint / Ignitab	EPA 150.1 / 9045 pH	Alkalinity	Nitrate	Sulfate	Chloride	NH DES Full LIST
1310029-01	SB-118/MW	10.1.13/10:18	GW	3									X																				X
-02	SB-109/MW	12:10																															
-03	SB-108/MW	13:04																															
-04	SB-107/MW	13:50																															
-05	SB-105/MW	14:34																															

Relinquished by: Dylan Bush	Date: 10.1.13 Time: 19:45	Received by: Sovereign Refrigerator
Relinquished by: Refridgerator	Date: 10-7-13 Time: 845	Received by: [signature]
Relinquished by:	Date: Time:	Received by:

Notes:
* Samples kept on ice during transport

Temperature 2 °C

Is this N.H. "ODD Fund" related? Y____ N ✓

Aquarian Analytical will subcontract those tests we do not perform with your prior approval

Please keep samples on ice from the time of collection

Aquarian Analytical, Inc.
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17 October 2013

Mr. Mark Henderson
Sovereign Consulting, Inc.
7 Hills Avenue
Concord, NH 03301

RE: Frank Bean Road - Laconia, NH

Dear Mr. Henderson:

Enclosed are the results of analyses for the following samples, which were received at 2 c.

Laboratory ID	Sample ID	Sample matrix	Date sampled	Date received
1310030-01	**SB-110/MW**	Water	02-Oct-13 10:42	07-Oct-13 08:45
1310030-02	**SB-103/MW**	Water	02-Oct-13 14:50	07-Oct-13 08:45
1310030-03	**SB-104/MW**	Water	02-Oct-13 16:14	07-Oct-13 08:45
1310030-04	**SB-105/MW**	Water	02-Oct-13 16:45	07-Oct-13 08:45
1310030-05	**SB-107/MW**	Water	02-Oct-13 17:02	07-Oct-13 08:45
1310030-06	**SB-108/MW**	Water	02-Oct-13 17:16	07-Oct-13 08:45
1310030-07	**SB-109/MW**	Water	02-Oct-13 17:30	07-Oct-13 08:45
1310030-08	**SB-118/MW**	Water	02-Oct-13 18:12	07-Oct-13 08:45

The results in this report relate only to the submitted samples. Please refer to our website listed above for a list of accredited parameters. If you have any questions concerning this report, please feel free to contact me.

Alan G. Naber
Laboratory Director

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Sovereign Consulting, Inc.	Project: Frank Bean Road - Laconia, NH	
7 Hills Avenue	Project Number: NH011	**Reported:**
Concord NH, 03301	Project Manager: Mr. Mark Henderson	17-Oct-13 16:23

SB-110/MW
1310030-01 (Water)

Sampled: 2-Oct-13

Volatile Organic Compounds by EPA 8260B

Analyte	CAS Number	Result	Reporting Limit	Units	Analyzed	Notes
Acetone	67-64-1	BD	50	ug/L	09-Oct-13	
Benzene	71-43-2	BD	0.8	ug/L	09-Oct-13	
Bromobenzene	108-86-1	BD	2.0	ug/L	09-Oct-13	
Bromochloromethane	74-97-5	BD	2.0	ug/L	09-Oct-13	
Bromodichloromethane	75-27-4	BD	2.0	ug/L	09-Oct-13	
Bromoform	75-25-2	BD	2.0	ug/L	09-Oct-13	
Bromomethane	74-83-9	BD	2.0	ug/L	09-Oct-13	
Butylbenzene, n-	104-51-8	BD	2.0	ug/L	09-Oct-13	
Butylbenzene, sec-	135-98-8	BD	2.0	ug/L	09-Oct-13	
Butylbenzene, tert-	98-06-6	BD	2.0	ug/L	09-Oct-13	
Carbon disulfide	75-15-0	BD	8.0	ug/L	09-Oct-13	
Carbon Tetrachloride	56-23-5	BD	2.0	ug/L	09-Oct-13	
Chloroethane	75-00-3	BD	2.0	ug/L	09-Oct-13	
Chloromethane	74-87-3	BD	4.0	ug/L	09-Oct-13	
Chlorotoluene, 2	95-49-8	BD	2.0	ug/L	09-Oct-13	
Chlorotoluene, 4	106-43-4	BD	2.0	ug/L	09-Oct-13	
Dibromochloromethane	124-48-1	BD	2.0	ug/L	09-Oct-13	
Dibromochloropropane	96-12-8	BD	4.0	ug/L	09-Oct-13	
Dibromomethane	74-95-3	BD	2.0	ug/L	09-Oct-13	
Dichlorobenzene, 1,2-	95-50-1	BD	2.0	ug/L	09-Oct-13	
Dichlorobenzene, 1,3-	541-73-1	BD	2.0	ug/L	09-Oct-13	
Dichlorobenzene, 1,4-	106-46-7	BD	2.0	ug/L	09-Oct-13	
Dichlorodifluoromethane	75-71-8	BD	4.0	ug/L	09-Oct-13	
Dichloroethane, 1,1-	75-34-3	BD	2.0	ug/L	09-Oct-13	
Dichloroethane, 1,2-	107-06-2	BD	2.0	ug/L	09-Oct-13	
Dichloroethylene, 1,1-	75-35-4	BD	2.0	ug/L	09-Oct-13	
Dichloroethylene, cis-1,2-	156-59-2	BD	2.0	ug/L	09-Oct-13	
Dichloroethylene, trans-1,2-	156-60-5	BD	2.0	ug/L	09-Oct-13	
Dichloromethane	75-09-2	BD	4.0	ug/L	09-Oct-13	
Dichloropropane, 1,2-	78-87-5	BD	2.0	ug/L	09-Oct-13	
Dichloropropane, 1,3-	142-28-9	BD	2.0	ug/L	09-Oct-13	
Dichloropropane, 2,2-	594-20-7	BD	6.0	ug/L	09-Oct-13	
Dichloropropene, 1,1-	563-58-6	BD	2.0	ug/L	09-Oct-13	
Dichloropropene, cis-1,3-	10061-01-5	BD	2.0	ug/L	09-Oct-13	
Dichloropropene, trans-1,3-	10061-02-6	BD	2.0	ug/L	09-Oct-13	
Diethyl Ether	60-29-7	BD	50	ug/L	09-Oct-13	
Diisopropyl Ether	108-20-3	BD	2.0	ug/L	09-Oct-13	
Ethylbenzene	100-41-4	BD	2.0	ug/L	09-Oct-13	
Ethylene dibromide	106-93-4	BD	2.0	ug/L	09-Oct-13	
Ethyl tert-Butyl Ether	637-92-3	BD	2.0	ug/L	09-Oct-13	

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Sovereign Consulting, Inc.	Project: Frank Bean Road - Laconia, NH	
7 Hills Avenue	Project Number: NH011	**Reported:**
Concord NH, 03301	Project Manager: Mr. Mark Henderson	17-Oct-13 16:23

SB-110/MW
1310030-01 (Water)

Sampled: 2-Oct-13

Volatile Organic Compounds by EPA 8260B

Analyte	CAS Number	Result	Reporting Limit	Units	Analyzed	Notes
Hexachlorobutadiene	87-68-3	BD	4.0	ug/L	09-Oct-13	
Isopropylbenzene	98-82-8	BD	2.0	ug/L	09-Oct-13	
Isopropyltoluene, p-	99-87-6	BD	2.0	ug/L	09-Oct-13	
Methyl Butyl Ketone (2-Hexanone)	591-78-6	BD	50	ug/L	09-Oct-13	
Methyl Ethyl Ketone (2-Butanone)	78-93-3	BD	50	ug/L	09-Oct-13	
Methyl Isobutyl Ketone	108-10-1	BD	50	ug/L	09-Oct-13	
Methyl-tert-Butyl Ether	1634-04-4	BD	0.8	ug/L	09-Oct-13	
Monochlorobenzene	108-90-7	BD	2.0	ug/L	09-Oct-13	
Naphthalene	91-20-3	BD	4.0	ug/L	09-Oct-13	
n-Propylbenzene	103-65-1	BD	2.0	ug/L	09-Oct-13	
Styrene	100-42-5	BD	2.0	ug/L	09-Oct-13	
tert-Amyl Methyl Ether	994-05-8	BD	4.0	ug/L	09-Oct-13	
tert-Butyl alcohol	75-65-0	BD	20	ug/L	09-Oct-13	
Tetrachloroethane, 1,1,1,2-	630-20-6	BD	2.0	ug/L	09-Oct-13	
Tetrachloroethane, 1,1,2,2-	79-34-5	BD	2.0	ug/L	09-Oct-13	
Tetrachloroethylene	127-18-4	BD	2.0	ug/L	09-Oct-13	
Tetrahydrofuran	109-99-9	BD	50	ug/L	09-Oct-13	
Toluene	108-88-3	BD	2.0	ug/L	09-Oct-13	
Trichlorobenzene, 1,2,3-	87-61-6	BD	4.0	ug/L	09-Oct-13	
Trichlorobenzene, 1,2,4-	120-82-1	BD	4.0	ug/L	09-Oct-13	
Trichlorobenzene, 1,3,5-	108-70-3	BD	4.0	ug/L	09-Oct-13	
Trichloroethane, 1,1,1-	71-55-6	BD	2.0	ug/L	09-Oct-13	
Trichloroethane, 1,1,2-	79-00-5	BD	2.0	ug/L	09-Oct-13	
Trichloroethylene	79-01-6	BD	0.8	ug/L	09-Oct-13	
Trichloro 1,1,2-, trifluoro 1,2,2-, ethane	76-13-1	BD	4.0	ug/L	09-Oct-13	
Trichlorofluoromethane	75-69-4	BD	4.0	ug/L	09-Oct-13	
Trichloromethane	67-66-3	BD	2.0	ug/L	09-Oct-13	
Trichloropropane, 1,2,3-	96-18-4	BD	2.0	ug/L	09-Oct-13	
Trimethylbenzene, 1,2,4-	95-63-6	BD	2.0	ug/L	09-Oct-13	
Trimethylbenzene, 1,3,5-	108-67-8	BD	2.0	ug/L	09-Oct-13	
Vinyl chloride	75-01-4	BD	0.8	ug/L	09-Oct-13	
Xylenes, m & p-	108-38-3,106-42-3	BD	4.0	ug/L	09-Oct-13	
Xylenes, o-	95-47-6	BD	2.0	ug/L	09-Oct-13	

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Sovereign Consulting, Inc.	Project: Frank Bean Road - Laconia, NH	
7 Hills Avenue	Project Number: NH011	**Reported:**
Concord NH, 03301	Project Manager: Mr. Mark Henderson	17-Oct-13 16:23

SB-110/MW
1310030-01 (Water)

Sampled: 2-Oct-13

Polycyclic Aromatic Hydrocarbons

Analyte	CAS Number	Result	Reporting Limit	Units	Analyzed	Method	Notes
Acenaphthene	83-32-9	BD	0.50	ug/L	16-Oct-13	8270C	
Acenaphthylene	208-96-8	BD	0.50	ug/L	16-Oct-13	8270C	
Anthracene	120-12-7	BD	0.50	ug/L	16-Oct-13	8270C	
Benzo(a)anthracene	56-55-3	**0.15**	0.10	ug/L	16-Oct-13	8270C	
Benzo(a)pyrene	50-32-8	BD	0.20	ug/L	16-Oct-13	8270C	
Benzo(b)fluoranthene	205-99-2	BD	0.10	ug/L	16-Oct-13	8270C	
Benzo(g,h,i)perylene	191-24-2	BD	0.50	ug/L	16-Oct-13	8270C	
Benzo(k)fluoranthene	207-08-9	BD	0.50	ug/L	16-Oct-13	8270C	
Chrysene	218-01-9	BD	0.50	ug/L	16-Oct-13	8270C	
Dibenz (a,h) anthracene	53-70-3	BD	0.10	ug/L	16-Oct-13	8270C	
Fluoranthene	206-44-0	BD	0.50	ug/L	16-Oct-13	8270C	
Fluorene	86-73-7	BD	0.50	ug/L	16-Oct-13	8270C	
Indeno(1,2,3-cd)pyrene	193-39-5	BD	0.10	ug/L	16-Oct-13	8270C	
Methylnaphthalene, 1-	90-12-0	BD	0.50	ug/L	16-Oct-13	8270C	
Methylnaphthalene, 2-	91-57-6	BD	0.50	ug/L	16-Oct-13	8270C	
Naphthalene	91-20-3	BD	0.50	ug/L	16-Oct-13	8270C	
Phenanthrene	85-01-8	BD	0.50	ug/L	16-Oct-13	8270C	
Pyrene	129-00-0	BD	0.50	ug/L	16-Oct-13	8270C	

Dissolved Metals by ICPMS

Analyte	CAS Number	Result	Reporting Limit	Units	Analyzed	Method	Notes
Antimony	7440-36-0	BD	1	ug/L	09-Oct-13	200.8	
Arsenic	7440-38-2	BD	1	ug/L	09-Oct-13	200.8	
Beryllium	7440-41-7	BD	1	ug/L	09-Oct-13	200.8	
Cadmium	7440-43-9	BD	1	ug/L	09-Oct-13	200.8	
Chromium	7440-47-3	**2**	1	ug/L	09-Oct-13	200.8	CCV
Copper	7440-50-8	**2**	1	ug/L	09-Oct-13	200.8	
Lead	7439-92-1	BD	1	ug/L	09-Oct-13	200.8	
Mercury	7439-97-6	BD	0.2	ug/L	09-Oct-13	200.8	
Nickel	7440-02-0	**2**	1	ug/L	09-Oct-13	200.8	
Selenium	7782-49-2	BD	1	ug/L	09-Oct-13	200.8	
Silver	7440-22-4	BD	1	ug/L	09-Oct-13	200.8	
Thallium	7440-28-0	BD	1	ug/L	09-Oct-13	200.8	
Zinc	7440-66-6	**39**	1	ug/L	09-Oct-13	200.8	

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Sovereign Consulting, Inc.	Project: Frank Bean Road - Laconia, NH	
7 Hills Avenue	Project Number: NH011	**Reported:**
Concord NH, 03301	Project Manager: Mr. Mark Henderson	17-Oct-13 16:23

SB-103/MW
1310030-02 (Water)

Sampled: 2-Oct-13

Volatile Organic Compounds by EPA 8260B

Analyte	CAS Number	Result	Reporting Limit	Units	Analyzed	Notes
Acetone	67-64-1	BD	50	ug/L	09-Oct-13	
Benzene	71-43-2	BD	0.8	ug/L	09-Oct-13	
Bromobenzene	108-86-1	BD	2.0	ug/L	09-Oct-13	
Bromochloromethane	74-97-5	BD	2.0	ug/L	09-Oct-13	
Bromodichloromethane	75-27-4	BD	2.0	ug/L	09-Oct-13	
Bromoform	75-25-2	BD	2.0	ug/L	09-Oct-13	
Bromomethane	74-83-9	BD	2.0	ug/L	09-Oct-13	
Butylbenzene, n-	104-51-8	**2.1**	2.0	ug/L	09-Oct-13	
Butylbenzene, sec-	135-98-8	**2.7**	2.0	ug/L	09-Oct-13	
Butylbenzene, tert-	98-06-6	BD	2.0	ug/L	09-Oct-13	
Carbon disulfide	75-15-0	BD	8.0	ug/L	09-Oct-13	
Carbon Tetrachloride	56-23-5	BD	2.0	ug/L	09-Oct-13	
Chloroethane	75-00-3	BD	2.0	ug/L	09-Oct-13	
Chloromethane	74-87-3	BD	4.0	ug/L	09-Oct-13	
Chlorotoluene, 2	95-49-8	BD	2.0	ug/L	09-Oct-13	
Chlorotoluene, 4	106-43-4	BD	2.0	ug/L	09-Oct-13	
Dibromochloromethane	124-48-1	BD	2.0	ug/L	09-Oct-13	
Dibromochloropropane	96-12-8	BD	4.0	ug/L	09-Oct-13	
Dibromomethane	74-95-3	BD	2.0	ug/L	09-Oct-13	
Dichlorobenzene, 1,2-	95-50-1	**7.4**	2.0	ug/L	09-Oct-13	
Dichlorobenzene, 1,3-	541-73-1	BD	2.0	ug/L	09-Oct-13	
Dichlorobenzene, 1,4-	106-46-7	BD	2.0	ug/L	09-Oct-13	
Dichlorodifluoromethane	75-71-8	BD	4.0	ug/L	09-Oct-13	
Dichloroethane, 1,1-	75-34-3	BD	2.0	ug/L	09-Oct-13	
Dichloroethane, 1,2-	107-06-2	BD	2.0	ug/L	09-Oct-13	
Dichloroethylene, 1,1-	75-35-4	BD	2.0	ug/L	09-Oct-13	
Dichloroethylene, cis-1,2-	156-59-2	BD	2.0	ug/L	09-Oct-13	
Dichloroethylene, trans-1,2-	156-60-5	BD	2.0	ug/L	09-Oct-13	
Dichloromethane	75-09-2	BD	4.0	ug/L	09-Oct-13	
Dichloropropane, 1,2-	78-87-5	BD	2.0	ug/L	09-Oct-13	
Dichloropropane, 1,3-	142-28-9	BD	2.0	ug/L	09-Oct-13	
Dichloropropane, 2,2-	594-20-7	BD	6.0	ug/L	09-Oct-13	
Dichloropropene, 1,1-	563-58-6	BD	2.0	ug/L	09-Oct-13	
Dichloropropene, cis-1,3-	10061-01-5	BD	2.0	ug/L	09-Oct-13	
Dichloropropene, trans-1,3-	10061-02-6	BD	2.0	ug/L	09-Oct-13	
Diethyl Ether	60-29-7	BD	50	ug/L	09-Oct-13	
Diisopropyl Ether	108-20-3	BD	2.0	ug/L	09-Oct-13	
Ethylbenzene	100-41-4	BD	2.0	ug/L	09-Oct-13	
Ethylene dibromide	106-93-4	BD	2.0	ug/L	09-Oct-13	
Ethyl tert-Butyl Ether	637-92-3	BD	2.0	ug/L	09-Oct-13	

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Sovereign Consulting, Inc.	Project: Frank Bean Road - Laconia, NH	
7 Hills Avenue	Project Number: NH011	**Reported:**
Concord NH, 03301	Project Manager: Mr. Mark Henderson	17-Oct-13 16:23

SB-103/MW
1310030-02 (Water)

Sampled: 2-Oct-13

Volatile Organic Compounds by EPA 8260B

Analyte	CAS Number	Result	Reporting Limit	Units	Analyzed	Notes
Hexachlorobutadiene	87-68-3	BD	4.0	ug/L	09-Oct-13	
Isopropylbenzene	98-82-8	BD	2.0	ug/L	09-Oct-13	
Isopropyltoluene, p-	99-87-6	BD	2.0	ug/L	09-Oct-13	
Methyl Butyl Ketone (2-Hexanone)	591-78-6	BD	50	ug/L	09-Oct-13	
Methyl Ethyl Ketone (2-Butanone)	78-93-3	BD	50	ug/L	09-Oct-13	
Methyl Isobutyl Ketone	108-10-1	BD	50	ug/L	09-Oct-13	
Methyl-tert-Butyl Ether	1634-04-4	BD	0.8	ug/L	09-Oct-13	
Monochlorobenzene	108-90-7	BD	2.0	ug/L	09-Oct-13	
Naphthalene	91-20-3	BD	4.0	ug/L	09-Oct-13	
n-Propylbenzene	103-65-1	BD	2.0	ug/L	09-Oct-13	
Styrene	100-42-5	BD	2.0	ug/L	09-Oct-13	
tert-Amyl Methyl Ether	994-05-8	BD	4.0	ug/L	09-Oct-13	
tert-Butyl alcohol	75-65-0	BD	20	ug/L	09-Oct-13	
Tetrachloroethane, 1,1,1,2-	630-20-6	BD	2.0	ug/L	09-Oct-13	
Tetrachloroethane, 1,1,2,2-	79-34-5	BD	2.0	ug/L	09-Oct-13	
Tetrachloroethylene	127-18-4	**2.8**	2.0	ug/L	09-Oct-13	
Tetrahydrofuran	109-99-9	BD	50	ug/L	09-Oct-13	
Toluene	108-88-3	BD	2.0	ug/L	09-Oct-13	
Trichlorobenzene, 1,2,3-	87-61-6	BD	4.0	ug/L	09-Oct-13	
Trichlorobenzene, 1,2,4-	120-82-1	BD	4.0	ug/L	09-Oct-13	
Trichlorobenzene, 1,3,5-	108-70-3	BD	4.0	ug/L	09-Oct-13	
Trichloroethane, 1,1,1-	71-55-6	BD	2.0	ug/L	09-Oct-13	
Trichloroethane, 1,1,2-	79-00-5	BD	2.0	ug/L	09-Oct-13	
Trichloroethylene	79-01-6	**29**	0.8	ug/L	09-Oct-13	
Trichloro 1,1,2-, trifluoro 1,2,2-, ethane	76-13-1	BD	4.0	ug/L	09-Oct-13	
Trichlorofluoromethane	75-69-4	BD	4.0	ug/L	09-Oct-13	
Trichloromethane	67-66-3	BD	2.0	ug/L	09-Oct-13	
Trichloropropane, 1,2,3-	96-18-4	BD	2.0	ug/L	09-Oct-13	
Trimethylbenzene, 1,2,4-	95-63-6	BD	2.0	ug/L	09-Oct-13	
Trimethylbenzene, 1,3,5-	108-67-8	BD	2.0	ug/L	09-Oct-13	
Vinyl chloride	75-01-4	BD	0.8	ug/L	09-Oct-13	
Xylenes, m & p-	108-38-3,106-42-3	BD	4.0	ug/L	09-Oct-13	
Xylenes, o-	95-47-6	BD	2.0	ug/L	09-Oct-13	

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7 Hills Avenue	Project Number: NH011	**Reported:**
Concord NH, 03301	Project Manager: Mr. Mark Henderson	17-Oct-13 16:23

SB-103/MW
1310030-02 (Water)

Sampled: 2-Oct-13

Polycyclic Aromatic Hydrocarbons

Analyte	CAS Number	Result	Reporting Limit	Units	Analyzed	Method	Notes
Acenaphthene	83-32-9	BD	0.50	ug/L	16-Oct-13	8270C	
Acenaphthylene	208-96-8	BD	0.50	ug/L	16-Oct-13	8270C	
Anthracene	120-12-7	BD	0.50	ug/L	16-Oct-13	8270C	
Benzo(a)anthracene	56-55-3	BD	0.10	ug/L	16-Oct-13	8270C	
Benzo(a)pyrene	50-32-8	BD	0.20	ug/L	16-Oct-13	8270C	ISTD
Benzo(b)fluoranthene	205-99-2	BD	0.10	ug/L	16-Oct-13	8270C	ISTD
Benzo(g,h,i)perylene	191-24-2	BD	0.50	ug/L	16-Oct-13	8270C	ISTD
Benzo(k)fluoranthene	207-08-9	BD	0.50	ug/L	16-Oct-13	8270C	ISTD
Chrysene	218-01-9	BD	0.50	ug/L	16-Oct-13	8270C	
Dibenz (a,h) anthracene	53-70-3	BD	0.10	ug/L	16-Oct-13	8270C	ISTD
Fluoranthene	206-44-0	BD	0.50	ug/L	16-Oct-13	8270C	
Fluorene	86-73-7	BD	0.50	ug/L	16-Oct-13	8270C	
Indeno(1,2,3-cd)pyrene	193-39-5	BD	0.10	ug/L	16-Oct-13	8270C	ISTD
Methylnaphthalene, 1-	90-12-0	BD	0.50	ug/L	16-Oct-13	8270C	
Methylnaphthalene, 2-	91-57-6	BD	0.50	ug/L	16-Oct-13	8270C	
Naphthalene	91-20-3	BD	0.50	ug/L	16-Oct-13	8270C	
Phenanthrene	85-01-8	BD	0.50	ug/L	16-Oct-13	8270C	
Pyrene	129-00-0	BD	0.50	ug/L	16-Oct-13	8270C	

Dissolved Metals by ICPMS

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Analyte	CAS Number	Result	Reporting Limit	Units	Analyzed	Method	Notes
Antimony	7440-36-0	BD	2	ug/L	14-Oct-13	200.8	
Arsenic	7440-38-2	**2**	2	ug/L	14-Oct-13	200.8	
Beryllium	7440-41-7	BD	2	ug/L	14-Oct-13	200.8	ISTD
Cadmium	7440-43-9	BD	2	ug/L	14-Oct-13	200.8	
Chromium	7440-47-3	**12**	2	ug/L	14-Oct-13	200.8	
Copper	7440-50-8	**6**	2	ug/L	14-Oct-13	200.8	CCVa
Lead	7439-92-1	**17**	2	ug/L	14-Oct-13	200.8	
Mercury	7439-97-6	BD	0.4	ug/L	14-Oct-13	200.8	
Nickel	7440-02-0	**46**	2	ug/L	14-Oct-13	200.8	CCVa
Selenium	7782-49-2	**8**	2	ug/L	14-Oct-13	200.8	
Silver	7440-22-4	BD	2	ug/L	14-Oct-13	200.8	
Thallium	7440-28-0	BD	2	ug/L	14-Oct-13	200.8	
Zinc	7440-66-6	**1200**	2	ug/L	14-Oct-13	200.8	CCVa

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Sovereign Consulting, Inc.	Project: Frank Bean Road - Laconia, NH	
7 Hills Avenue	Project Number: NH011	**Reported:**
Concord NH, 03301	Project Manager: Mr. Mark Henderson	17-Oct-13 16:23

SB-104/MW
1310030-03 (Water)

Sampled: 2-Oct-13

Volatile Organic Compounds by EPA 8260B

Analyte	CAS Number	Result	Reporting Limit	Units	Analyzed	Notes
Acetone	67-64-1	BD	50	ug/L	09-Oct-13	
Benzene	71-43-2	BD	0.8	ug/L	09-Oct-13	
Bromobenzene	108-86-1	BD	2.0	ug/L	09-Oct-13	
Bromochloromethane	74-97-5	BD	2.0	ug/L	09-Oct-13	
Bromodichloromethane	75-27-4	BD	2.0	ug/L	09-Oct-13	
Bromoform	75-25-2	BD	2.0	ug/L	09-Oct-13	
Bromomethane	74-83-9	BD	2.0	ug/L	09-Oct-13	
Butylbenzene, n-	104-51-8	BD	2.0	ug/L	09-Oct-13	
Butylbenzene, sec-	135-98-8	BD	2.0	ug/L	09-Oct-13	
Butylbenzene, tert-	98-06-6	BD	2.0	ug/L	09-Oct-13	
Carbon disulfide	75-15-0	BD	8.0	ug/L	09-Oct-13	
Carbon Tetrachloride	56-23-5	BD	2.0	ug/L	09-Oct-13	
Chloroethane	75-00-3	BD	2.0	ug/L	09-Oct-13	
Chloromethane	74-87-3	BD	4.0	ug/L	09-Oct-13	
Chlorotoluene, 2	95-49-8	BD	2.0	ug/L	09-Oct-13	
Chlorotoluene, 4	106-43-4	BD	2.0	ug/L	09-Oct-13	
Dibromochloromethane	124-48-1	BD	2.0	ug/L	09-Oct-13	
Dibromochloropropane	96-12-8	BD	4.0	ug/L	09-Oct-13	
Dibromomethane	74-95-3	BD	2.0	ug/L	09-Oct-13	
Dichlorobenzene, 1,2-	95-50-1	BD	2.0	ug/L	09-Oct-13	
Dichlorobenzene, 1,3-	541-73-1	BD	2.0	ug/L	09-Oct-13	
Dichlorobenzene, 1,4-	106-46-7	BD	2.0	ug/L	09-Oct-13	
Dichlorodifluoromethane	75-71-8	BD	4.0	ug/L	09-Oct-13	
Dichloroethane, 1,1-	75-34-3	BD	2.0	ug/L	09-Oct-13	
Dichloroethane, 1,2-	107-06-2	BD	2.0	ug/L	09-Oct-13	
Dichloroethylene, 1,1-	75-35-4	BD	2.0	ug/L	09-Oct-13	
Dichloroethylene, cis-1,2-	156-59-2	BD	2.0	ug/L	09-Oct-13	
Dichloroethylene, trans-1,2-	156-60-5	BD	2.0	ug/L	09-Oct-13	
Dichloromethane	75-09-2	BD	4.0	ug/L	09-Oct-13	
Dichloropropane, 1,2-	78-87-5	BD	2.0	ug/L	09-Oct-13	
Dichloropropane, 1,3-	142-28-9	BD	2.0	ug/L	09-Oct-13	
Dichloropropane, 2,2-	594-20-7	BD	6.0	ug/L	09-Oct-13	
Dichloropropene, 1,1-	563-58-6	BD	2.0	ug/L	09-Oct-13	
Dichloropropene, cis-1,3-	10061-01-5	BD	2.0	ug/L	09-Oct-13	
Dichloropropene, trans-1,3-	10061-02-6	BD	2.0	ug/L	09-Oct-13	
Diethyl Ether	60-29-7	BD	50	ug/L	09-Oct-13	
Diisopropyl Ether	108-20-3	BD	2.0	ug/L	09-Oct-13	
Ethylbenzene	100-41-4	BD	2.0	ug/L	09-Oct-13	
Ethylene dibromide	106-93-4	BD	2.0	ug/L	09-Oct-13	
Ethyl tert-Butyl Ether	637-92-3	BD	2.0	ug/L	09-Oct-13	

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7 Hills Avenue	Project Number: NH011	**Reported:**
Concord NH, 03301	Project Manager: Mr. Mark Henderson	17-Oct-13 16:23

SB-104/MW
1310030-03 (Water)

Sampled: 2-Oct-13

Volatile Organic Compounds by EPA 8260B

Analyte	CAS Number	Result	Reporting Limit	Units	Analyzed	Notes
Hexachlorobutadiene	87-68-3	BD	4.0	ug/L	09-Oct-13	
Isopropylbenzene	98-82-8	BD	2.0	ug/L	09-Oct-13	
Isopropyltoluene, p-	99-87-6	BD	2.0	ug/L	09-Oct-13	
Methyl Butyl Ketone (2-Hexanone)	591-78-6	BD	50	ug/L	09-Oct-13	
Methyl Ethyl Ketone (2-Butanone)	78-93-3	BD	50	ug/L	09-Oct-13	
Methyl Isobutyl Ketone	108-10-1	BD	50	ug/L	09-Oct-13	
Methyl-tert-Butyl Ether	1634-04-4	BD	0.8	ug/L	09-Oct-13	
Monochlorobenzene	108-90-7	BD	2.0	ug/L	09-Oct-13	
Naphthalene	91-20-3	BD	4.0	ug/L	09-Oct-13	
n-Propylbenzene	103-65-1	BD	2.0	ug/L	09-Oct-13	
Styrene	100-42-5	BD	2.0	ug/L	09-Oct-13	
tert-Amyl Methyl Ether	994-05-8	BD	4.0	ug/L	09-Oct-13	
tert-Butyl alcohol	75-65-0	BD	20	ug/L	09-Oct-13	
Tetrachloroethane, 1,1,1,2-	630-20-6	BD	2.0	ug/L	09-Oct-13	
Tetrachloroethane, 1,1,2,2-	79-34-5	BD	2.0	ug/L	09-Oct-13	
Tetrachloroethylene	127-18-4	BD	2.0	ug/L	09-Oct-13	
Tetrahydrofuran	109-99-9	BD	50	ug/L	09-Oct-13	
Toluene	108-88-3	BD	2.0	ug/L	09-Oct-13	
Trichlorobenzene, 1,2,3-	87-61-6	BD	4.0	ug/L	09-Oct-13	
Trichlorobenzene, 1,2,4-	120-82-1	BD	4.0	ug/L	09-Oct-13	
Trichlorobenzene, 1,3,5-	108-70-3	BD	4.0	ug/L	09-Oct-13	
Trichloroethane, 1,1,1-	71-55-6	BD	2.0	ug/L	09-Oct-13	
Trichloroethane, 1,1,2-	79-00-5	BD	2.0	ug/L	09-Oct-13	
Trichloroethylene	79-01-6	BD	0.8	ug/L	09-Oct-13	
Trichloro 1,1,2-, trifluoro 1,2,2-, ethane	76-13-1	BD	4.0	ug/L	09-Oct-13	
Trichlorofluoromethane	75-69-4	BD	4.0	ug/L	09-Oct-13	
Trichloromethane	67-66-3	BD	2.0	ug/L	09-Oct-13	
Trichloropropane, 1,2,3-	96-18-4	BD	2.0	ug/L	09-Oct-13	
Trimethylbenzene, 1,2,4-	95-63-6	BD	2.0	ug/L	09-Oct-13	
Trimethylbenzene, 1,3,5-	108-67-8	BD	2.0	ug/L	09-Oct-13	
Vinyl chloride	75-01-4	BD	0.8	ug/L	09-Oct-13	
Xylenes, m & p-	108-38-3,106-42-3	BD	4.0	ug/L	09-Oct-13	
Xylenes, o-	95-47-6	BD	2.0	ug/L	09-Oct-13	

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7 Hills Avenue	Project Number: NH011	**Reported:**
Concord NH, 03301	Project Manager: Mr. Mark Henderson	17-Oct-13 16:23

SB-104/MW
1310030-03 (Water)

Sampled: 2-Oct-13

Polycyclic Aromatic Hydrocarbons

Analyte	CAS Number	Result	Reporting Limit	Units	Analyzed	Method	Notes
Acenaphthene	83-32-9	BD	0.50	ug/L	16-Oct-13	8270C	
Acenaphthylene	208-96-8	BD	0.50	ug/L	16-Oct-13	8270C	
Anthracene	120-12-7	BD	0.50	ug/L	16-Oct-13	8270C	
Benzo(a)anthracene	56-55-3	**0.15**	0.10	ug/L	16-Oct-13	8270C	
Benzo(a)pyrene	50-32-8	BD	0.20	ug/L	16-Oct-13	8270C	
Benzo(b)fluoranthene	205-99-2	BD	0.10	ug/L	16-Oct-13	8270C	
Benzo(g,h,i)perylene	191-24-2	BD	0.50	ug/L	16-Oct-13	8270C	
Benzo(k)fluoranthene	207-08-9	BD	0.50	ug/L	16-Oct-13	8270C	
Chrysene	218-01-9	BD	0.50	ug/L	16-Oct-13	8270C	
Dibenz (a,h) anthracene	53-70-3	BD	0.10	ug/L	16-Oct-13	8270C	
Fluoranthene	206-44-0	BD	0.50	ug/L	16-Oct-13	8270C	
Fluorene	86-73-7	BD	0.50	ug/L	16-Oct-13	8270C	
Indeno(1,2,3-cd)pyrene	193-39-5	BD	0.10	ug/L	16-Oct-13	8270C	
Methylnaphthalene, 1-	90-12-0	BD	0.50	ug/L	16-Oct-13	8270C	
Methylnaphthalene, 2-	91-57-6	BD	0.50	ug/L	16-Oct-13	8270C	
Naphthalene	91-20-3	BD	0.50	ug/L	16-Oct-13	8270C	
Phenanthrene	85-01-8	BD	0.50	ug/L	16-Oct-13	8270C	
Pyrene	129-00-0	BD	0.50	ug/L	16-Oct-13	8270C	

Dissolved Metals by ICPMS

Analyte	CAS Number	Result	Reporting Limit	Units	Analyzed	Method	Notes
Antimony	7440-36-0	BD	2	ug/L	14-Oct-13	200.8	
Arsenic	7440-38-2	BD	2	ug/L	14-Oct-13	200.8	
Beryllium	7440-41-7	BD	1	ug/L	09-Oct-13	200.8	
Cadmium	7440-43-9	BD	2	ug/L	14-Oct-13	200.8	
Chromium	7440-47-3	**2**	2	ug/L	14-Oct-13	200.8	CCV
Copper	7440-50-8	**2**	2	ug/L	14-Oct-13	200.8	CCVa
Lead	7439-92-1	BD	1	ug/L	09-Oct-13	200.8	
Mercury	7439-97-6	BD	0.2	ug/L	09-Oct-13	200.8	
Nickel	7440-02-0	**3**	2	ug/L	14-Oct-13	200.8	CCVa
Selenium	7782-49-2	BD	2	ug/L	14-Oct-13	200.8	
Silver	7440-22-4	BD	2	ug/L	14-Oct-13	200.8	
Thallium	7440-28-0	BD	1	ug/L	09-Oct-13	200.8	
Zinc	7440-66-6	**35**	2	ug/L	14-Oct-13	200.8	CCVa

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Aquarian Analytical, Inc.

Laboratory Services

153 West Road
Canterbury, N.H. 03224
Phone - 603-783-9097
www.Aquarianlabs.com

Sovereign Consulting, Inc.	Project: Frank Bean Road - Laconia, NH	
7 Hills Avenue	Project Number: NH011	**Reported:**
Concord NH, 03301	Project Manager: Mr. Mark Henderson	17-Oct-13 16:23

SB-105/MW
1310030-04 (Water)

Sampled: 2-Oct-13

Dissolved Metals by ICPMS

Analyte	CAS Number	Result	Reporting Limit	Units	Analyzed	Method	Notes
Antimony	7440-36-0	BD	2	ug/L	14-Oct-13	200.8	
Arsenic	7440-38-2	BD	2	ug/L	14-Oct-13	200.8	
Beryllium	7440-41-7	BD	1	ug/L	09-Oct-13	200.8	
Cadmium	7440-43-9	BD	2	ug/L	14-Oct-13	200.8	
Chromium	7440-47-3	**6**	2	ug/L	14-Oct-13	200.8	
Copper	7440-50-8	BD	2	ug/L	14-Oct-13	200.8	CCVa
Lead	7439-92-1	BD	2	ug/L	14-Oct-13	200.8	
Mercury	7439-97-6	BD	0.4	ug/L	14-Oct-13	200.8	
Nickel	7440-02-0	**9**	2	ug/L	14-Oct-13	200.8	CCVa
Selenium	7782-49-2	BD	2	ug/L	14-Oct-13	200.8	
Silver	7440-22-4	BD	2	ug/L	14-Oct-13	200.8	
Thallium	7440-28-0	BD	2	ug/L	14-Oct-13	200.8	
Zinc	7440-66-6	**32**	2	ug/L	14-Oct-13	200.8	CCVa

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Sovereign Consulting, Inc.	Project: Frank Bean Road - Laconia, NH	
7 Hills Avenue	Project Number: NH011	**Reported:**
Concord NH, 03301	Project Manager: Mr. Mark Henderson	17-Oct-13 16:23

SB-107/MW
1310030-05 (Water)

Sampled: 2-Oct-13

Dissolved Metals by ICPMS

Analyte	CAS Number	Result	Reporting Limit	Units	Analyzed	Method	Notes
Antimony	7440-36-0	BD	1	ug/L	09-Oct-13	200.8	
Arsenic	7440-38-2	BD	1	ug/L	09-Oct-13	200.8	
Beryllium	7440-41-7	BD	1	ug/L	09-Oct-13	200.8	
Cadmium	7440-43-9	BD	1	ug/L	09-Oct-13	200.8	
Chromium	7440-47-3	**7**	1	ug/L	09-Oct-13	200.8	CCV
Copper	7440-50-8	BD	1	ug/L	09-Oct-13	200.8	
Lead	7439-92-1	BD	1	ug/L	09-Oct-13	200.8	
Mercury	7439-97-6	BD	0.2	ug/L	09-Oct-13	200.8	
Nickel	7440-02-0	**2**	1	ug/L	09-Oct-13	200.8	
Selenium	7782-49-2	BD	1	ug/L	09-Oct-13	200.8	
Silver	7440-22-4	BD	1	ug/L	09-Oct-13	200.8	
Thallium	7440-28-0	BD	1	ug/L	09-Oct-13	200.8	
Zinc	7440-66-6	**28**	1	ug/L	09-Oct-13	200.8	

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Sovereign Consulting, Inc.	Project: Frank Bean Road - Laconia, NH	
7 Hills Avenue	Project Number: NH011	**Reported:**
Concord NH, 03301	Project Manager: Mr. Mark Henderson	17-Oct-13 16:23

SB-108/MW
1310030-06 (Water)

Sampled: 2-Oct-13

Dissolved Metals by ICPMS

Analyte	CAS Number	Result	Reporting Limit	Units	Analyzed	Method	Notes
Antimony	7440-36-0	BD	2	ug/L	14-Oct-13	200.8	
Arsenic	7440-38-2	BD	2	ug/L	14-Oct-13	200.8	
Beryllium	7440-41-7	BD	1	ug/L	09-Oct-13	200.8	
Cadmium	7440-43-9	BD	2	ug/L	14-Oct-13	200.8	
Chromium	7440-47-3	BD	2	ug/L	14-Oct-13	200.8	
Copper	7440-50-8	**6**	2	ug/L	14-Oct-13	200.8	CCVa
Lead	7439-92-1	BD	1	ug/L	09-Oct-13	200.8	
Mercury	7439-97-6	BD	0.2	ug/L	09-Oct-13	200.8	
Nickel	7440-02-0	**10**	2	ug/L	14-Oct-13	200.8	CCVa
Selenium	7782-49-2	BD	2	ug/L	14-Oct-13	200.8	
Silver	7440-22-4	BD	2	ug/L	14-Oct-13	200.8	
Thallium	7440-28-0	BD	1	ug/L	09-Oct-13	200.8	
Zinc	7440-66-6	**60**	2	ug/L	14-Oct-13	200.8	CCVa

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Sovereign Consulting, Inc.	Project: Frank Bean Road - Laconia, NH	
7 Hills Avenue	Project Number: NH011	**Reported:**
Concord NH, 03301	Project Manager: Mr. Mark Henderson	17-Oct-13 16:23

SB-109/MW
1310030-07 (Water)

Sampled: 2-Oct-13

Dissolved Metals by ICPMS

Analyte	CAS Number	Result	Reporting Limit	Units	Analyzed	Method	Notes
Antimony	7440-36-0	BD	1	ug/L	09-Oct-13	200.8	
Arsenic	7440-38-2	BD	1	ug/L	09-Oct-13	200.8	
Beryllium	7440-41-7	BD	1	ug/L	09-Oct-13	200.8	
Cadmium	7440-43-9	BD	1	ug/L	09-Oct-13	200.8	
Chromium	7440-47-3	**2**	1	ug/L	09-Oct-13	200.8	CCV
Copper	7440-50-8	**1**	1	ug/L	09-Oct-13	200.8	
Lead	7439-92-1	BD	1	ug/L	09-Oct-13	200.8	
Mercury	7439-97-6	BD	0.2	ug/L	09-Oct-13	200.8	
Nickel	7440-02-0	**3**	1	ug/L	09-Oct-13	200.8	
Selenium	7782-49-2	BD	1	ug/L	09-Oct-13	200.8	
Silver	7440-22-4	BD	1	ug/L	09-Oct-13	200.8	
Thallium	7440-28-0	BD	1	ug/L	09-Oct-13	200.8	
Zinc	7440-66-6	**35**	1	ug/L	09-Oct-13	200.8	

Aquarian Analytical, Inc.

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Sovereign Consulting, Inc.	Project: Frank Bean Road - Laconia, NH	
7 Hills Avenue	Project Number: NH011	**Reported:**
Concord NH, 03301	Project Manager: Mr. Mark Henderson	17-Oct-13 16:23

SB-118/MW
1310030-08 (Water)

Sampled: 2-Oct-13

Dissolved Metals by ICPMS

Analyte	CAS Number	Result	Reporting Limit	Units	Analyzed	Method	Notes
Antimony	7440-36-0	BD	1	ug/L	09-Oct-13	200.8	
Arsenic	7440-38-2	BD	1	ug/L	09-Oct-13	200.8	
Beryllium	7440-41-7	BD	1	ug/L	09-Oct-13	200.8	
Cadmium	7440-43-9	BD	1	ug/L	09-Oct-13	200.8	
Chromium	7440-47-3	**2**	1	ug/L	09-Oct-13	200.8	CCV
Copper	7440-50-8	**2**	1	ug/L	09-Oct-13	200.8	
Lead	7439-92-1	BD	1	ug/L	09-Oct-13	200.8	
Mercury	7439-97-6	BD	0.2	ug/L	09-Oct-13	200.8	
Nickel	7440-02-0	**2**	1	ug/L	09-Oct-13	200.8	
Selenium	7782-49-2	BD	1	ug/L	09-Oct-13	200.8	
Silver	7440-22-4	BD	1	ug/L	09-Oct-13	200.8	
Thallium	7440-28-0	BD	1	ug/L	09-Oct-13	200.8	
Zinc	7440-66-6	**51**	1	ug/L	09-Oct-13	200.8	

Notes and Definitions

sed	Sediment present in sample
ISTD	Internal standard exceeds limits.
CCVa	Calibration Check exceeds limits Cu 120%, Ni 117%, Zn 115%
CCV	Calibration Check exceeds limits Cr 84%.
BD	Analyte result below the laboratory reporting limit
NR	Not Reported

Soil sample results reported on a dry weight basis.

The reporting limit is the lowest level at which reliable quantitation has been demonstrated.

Analytes in **bold** are values reported above the reporting limit.

Aquarian Analytical, Inc.

Laboratory Services

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E-Mail: aquarianlab@comcast.net

Turnaround Requirements (check one)

- **RUSH SAMPLES NEED PRIOR APPROVAL**
- ____ Same Day Turnaround (150% upcharge)
- ____ One Day Turnaround (100% upcharge)
- ____ Two Day Turnaround (50% upcharge)
- ____ Three Day Turnaround (25% upcharge)
- X Normal turnaround

Project Information

Project #:	NH011	Project Manager:	Mark Henderson
Project Name:	Frank Bean Rd.	Report to:	Sovereign Consulting
Town/Site:	Laconia, NH	Invoice to:	Sovereign Consulting
Sampler:	Dylan Bush	Phone:	603-856-8644
Company:	Sovereign Consulting	E-Mail:	mhenderson@sovcon.com
BID Reference:			

Sample Information / VOC's-SVOC's / TPH / Metals / TCLP / Other (list)

NELAC Qc Y___ N___

AAI Work Order #	Sample ID	Sample Collection Time	Sample Matrix	Number of Containers	EPA 8260 w/ oxygenates	BTEX / MTBE	BTEX+MTBE+Naphthalene	Chlorinated only	EPA 524.2 Drinking Water	EDB	1,4 Dioxane	EPA 8270 A-B/N	EPA 8270 PAH	EPA 8015M Gasoline	EPA 8100M Fuel Oil	Fingerprint	RCRA 8	Field Filtered: DISSOLVED	Lab Filtered:	Total: 13 PP METALS	Zero Headspace Extraction (ZHE)	TCLP Pesticides	TCLP Herbicides	TCLP Metals	PCB	EPA SW846-7 Reactivity	EPA 1010 Flashpoint / Ignitab	EPA 150.1 / 9045 pH	Alkalinity	Nitrate	Sulfate	Chloride	NH DES Full LIST
1310030-01	SB-110/MW	10-2-13/10:42	GW	6									X					X		X													X
-02	SB-103/MW	14:50		4									X					X		X													X
-03	SB-104/MW	16:14		4									X					X		X													X
-04	SB-105/MW	16:45		1														X		X													
-05	SB-107/MW	17:02		1														X		X													
-06	SB-108/MW	17:16		1														X		X													
-07	SB-109/MW	17:30		1														X		X													
-08	SB-118/MW	18:12		1														X		X													

Relinquished by: Dylan Bush	Date: 10-2-13 Time: 19:15	Received by: SOVEREIGN REFRIGERATOR	Notes: * Samples kept on ice during transport
Relinquished by: Refridgerator	Date: 10-7-13 Time: 845	Received by: Tom Shu	Temperature 2 °C
Relinquished by:	Date: Time:	Received by:	Is this N.H. "ODD Fund" related? Y____ N ✓

Aquarian Analytical will subcontract those tests we do not perform with your prior approval

Please keep samples on ice from the time of collection

Aquarian Analytical, Inc.
Laboratory Services
153 West Road
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17 October 2013

Mr. Mark Henderson
Sovereign Consulting, Inc.
7 Hills Avenue
Concord, NH 03301

RE: Frank Bean Road - Laconia, NH

Dear Mr. Henderson:

Enclosed are the results of analyses for the following samples, which were received at 2 c.

Laboratory ID	Sample ID	Sample matrix	Date sampled	Date received
1310031-01	**SB-101/MW**	Water	03-Oct-13 14:15	07-Oct-13 08:45
1310031-02	**SB-119/MW**	Water	03-Oct-13 15:15	07-Oct-13 08:45
1310031-03	**SB-120/MW**	Water	03-Oct-13 15:52	07-Oct-13 08:45

The results in this report relate only to the submitted samples. Please refer to our website listed above for a list of accredited parameters. If you have any questions concerning this report, please feel free to contact me.

Alan G. Naber
Laboratory Director

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Sovereign Consulting, Inc.	Project: Frank Bean Road - Laconia, NH	
7 Hills Avenue	Project Number: NH011	**Reported:**
Concord NH, 03301	Project Manager: Mr. Mark Henderson	17-Oct-13 16:28

SB-101/MW
1310031-01 (Water)

Sampled: 3-Oct-13

Volatile Organic Compounds by EPA 8260B

Analyte	CAS Number	Result	Reporting Limit	Units	Analyzed	Notes
Acetone	67-64-1	BD	50	ug/L	09-Oct-13	
Benzene	71-43-2	BD	0.8	ug/L	09-Oct-13	
Bromobenzene	108-86-1	BD	2.0	ug/L	09-Oct-13	
Bromochloromethane	74-97-5	BD	2.0	ug/L	09-Oct-13	
Bromodichloromethane	75-27-4	BD	2.0	ug/L	09-Oct-13	
Bromoform	75-25-2	BD	2.0	ug/L	09-Oct-13	
Bromomethane	74-83-9	BD	2.0	ug/L	09-Oct-13	
Butylbenzene, n-	104-51-8	BD	2.0	ug/L	09-Oct-13	
Butylbenzene, sec-	135-98-8	BD	2.0	ug/L	09-Oct-13	
Butylbenzene, tert-	98-06-6	BD	2.0	ug/L	09-Oct-13	
Carbon disulfide	75-15-0	BD	8.0	ug/L	09-Oct-13	
Carbon Tetrachloride	56-23-5	BD	2.0	ug/L	09-Oct-13	
Chloroethane	75-00-3	BD	2.0	ug/L	09-Oct-13	
Chloromethane	74-87-3	BD	4.0	ug/L	09-Oct-13	
Chlorotoluene, 2	95-49-8	BD	2.0	ug/L	09-Oct-13	
Chlorotoluene, 4	106-43-4	BD	2.0	ug/L	09-Oct-13	
Dibromochloromethane	124-48-1	BD	2.0	ug/L	09-Oct-13	
Dibromochloropropane	96-12-8	BD	4.0	ug/L	09-Oct-13	
Dibromomethane	74-95-3	BD	2.0	ug/L	09-Oct-13	
Dichlorobenzene, 1,2-	95-50-1	BD	2.0	ug/L	09-Oct-13	
Dichlorobenzene, 1,3-	541-73-1	BD	2.0	ug/L	09-Oct-13	
Dichlorobenzene, 1,4-	106-46-7	BD	2.0	ug/L	09-Oct-13	
Dichlorodifluoromethane	75-71-8	BD	4.0	ug/L	09-Oct-13	
Dichloroethane, 1,1-	75-34-3	BD	2.0	ug/L	09-Oct-13	
Dichloroethane, 1,2-	107-06-2	BD	2.0	ug/L	09-Oct-13	
Dichloroethylene, 1,1-	75-35-4	BD	2.0	ug/L	09-Oct-13	
Dichloroethylene, cis-1,2-	156-59-2	BD	2.0	ug/L	09-Oct-13	
Dichloroethylene, trans-1,2-	156-60-5	BD	2.0	ug/L	09-Oct-13	
Dichloromethane	75-09-2	BD	4.0	ug/L	09-Oct-13	
Dichloropropane, 1,2-	78-87-5	BD	2.0	ug/L	09-Oct-13	
Dichloropropane, 1,3-	142-28-9	BD	2.0	ug/L	09-Oct-13	
Dichloropropane, 2,2-	594-20-7	BD	6.0	ug/L	09-Oct-13	
Dichloropropene, 1,1-	563-58-6	BD	2.0	ug/L	09-Oct-13	
Dichloropropene, cis-1,3-	10061-01-5	BD	2.0	ug/L	09-Oct-13	
Dichloropropene, trans-1,3-	10061-02-6	BD	2.0	ug/L	09-Oct-13	
Diethyl Ether	60-29-7	BD	50	ug/L	09-Oct-13	
Diisopropyl Ether	108-20-3	BD	2.0	ug/L	09-Oct-13	
Ethylbenzene	100-41-4	BD	2.0	ug/L	09-Oct-13	
Ethylene dibromide	106-93-4	BD	2.0	ug/L	09-Oct-13	
Ethyl tert-Butyl Ether	637-92-3	BD	2.0	ug/L	09-Oct-13	

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Sovereign Consulting, Inc.	Project: Frank Bean Road - Laconia, NH	
7 Hills Avenue	Project Number: NH011	**Reported:**
Concord NH, 03301	Project Manager: Mr. Mark Henderson	17-Oct-13 16:28

SB-101/MW
1310031-01 (Water)

Sampled: 3-Oct-13

Volatile Organic Compounds by EPA 8260B

Analyte	CAS Number	Result	Reporting Limit	Units	Analyzed	Notes
Hexachlorobutadiene	87-68-3	BD	4.0	ug/L	09-Oct-13	
Isopropylbenzene	98-82-8	BD	2.0	ug/L	09-Oct-13	
Isopropyltoluene, p-	99-87-6	BD	2.0	ug/L	09-Oct-13	
Methyl Butyl Ketone (2-Hexanone)	591-78-6	BD	50	ug/L	09-Oct-13	
Methyl Ethyl Ketone (2-Butanone)	78-93-3	BD	50	ug/L	09-Oct-13	
Methyl Isobutyl Ketone	108-10-1	BD	50	ug/L	09-Oct-13	
Methyl-tert-Butyl Ether	1634-04-4	BD	0.8	ug/L	09-Oct-13	
Monochlorobenzene	108-90-7	BD	2.0	ug/L	09-Oct-13	
Naphthalene	91-20-3	BD	4.0	ug/L	09-Oct-13	
n-Propylbenzene	103-65-1	BD	2.0	ug/L	09-Oct-13	
Styrene	100-42-5	BD	2.0	ug/L	09-Oct-13	
tert-Amyl Methyl Ether	994-05-8	BD	4.0	ug/L	09-Oct-13	
tert-Butyl alcohol	75-65-0	BD	20	ug/L	09-Oct-13	
Tetrachloroethane, 1,1,1,2-	630-20-6	BD	2.0	ug/L	09-Oct-13	
Tetrachloroethane, 1,1,2,2-	79-34-5	BD	2.0	ug/L	09-Oct-13	
Tetrachloroethylene	127-18-4	BD	2.0	ug/L	09-Oct-13	
Tetrahydrofuran	109-99-9	BD	50	ug/L	09-Oct-13	
Toluene	108-88-3	BD	2.0	ug/L	09-Oct-13	
Trichlorobenzene, 1,2,3-	87-61-6	BD	4.0	ug/L	09-Oct-13	
Trichlorobenzene, 1,2,4-	120-82-1	BD	4.0	ug/L	09-Oct-13	
Trichlorobenzene, 1,3,5-	108-70-3	BD	4.0	ug/L	09-Oct-13	
Trichloroethane, 1,1,1-	71-55-6	BD	2.0	ug/L	09-Oct-13	
Trichloroethane, 1,1,2-	79-00-5	BD	2.0	ug/L	09-Oct-13	
Trichloroethylene	79-01-6	**9.0**	0.8	ug/L	09-Oct-13	
Trichloro 1,1,2-, trifluoro 1,2,2-, ethane	76-13-1	BD	4.0	ug/L	09-Oct-13	
Trichlorofluoromethane	75-69-4	BD	4.0	ug/L	09-Oct-13	
Trichloromethane	67-66-3	BD	2.0	ug/L	09-Oct-13	
Trichloropropane, 1,2,3-	96-18-4	BD	2.0	ug/L	09-Oct-13	
Trimethylbenzene, 1,2,4-	95-63-6	BD	2.0	ug/L	09-Oct-13	
Trimethylbenzene, 1,3,5-	108-67-8	BD	2.0	ug/L	09-Oct-13	
Vinyl chloride	75-01-4	BD	0.8	ug/L	09-Oct-13	
Xylenes, m & p-	108-38-3,106-42-3	BD	4.0	ug/L	09-Oct-13	
Xylenes, o-	95-47-6	BD	2.0	ug/L	09-Oct-13	

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153 West Road
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Phone - 603-783-9097
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Sovereign Consulting, Inc.	Project: Frank Bean Road - Laconia, NH	
7 Hills Avenue	Project Number: NH011	**Reported:**
Concord NH, 03301	Project Manager: Mr. Mark Henderson	17-Oct-13 16:28

SB-101/MW
1310031-01 (Water)

Sampled: 3-Oct-13

Polycyclic Aromatic Hydrocarbons

Analyte	CAS Number	Result	Reporting Limit	Units	Analyzed	Method	Notes
Acenaphthene	83-32-9	BD	0.50	ug/L	16-Oct-13	8270C	
Acenaphthylene	208-96-8	BD	0.50	ug/L	16-Oct-13	8270C	
Anthracene	120-12-7	BD	0.50	ug/L	16-Oct-13	8270C	
Benzo(a)anthracene	56-55-3	**0.18**	0.10	ug/L	16-Oct-13	8270C	
Benzo(a)pyrene	50-32-8	BD	0.20	ug/L	16-Oct-13	8270C	
Benzo(b)fluoranthene	205-99-2	BD	0.10	ug/L	16-Oct-13	8270C	
Benzo(g,h,i)perylene	191-24-2	BD	0.50	ug/L	16-Oct-13	8270C	
Benzo(k)fluoranthene	207-08-9	BD	0.50	ug/L	16-Oct-13	8270C	
Chrysene	218-01-9	BD	0.50	ug/L	16-Oct-13	8270C	
Dibenz (a,h) anthracene	53-70-3	BD	0.10	ug/L	16-Oct-13	8270C	
Fluoranthene	206-44-0	BD	0.50	ug/L	16-Oct-13	8270C	
Fluorene	86-73-7	BD	0.50	ug/L	16-Oct-13	8270C	
Indeno(1,2,3-cd)pyrene	193-39-5	BD	0.10	ug/L	16-Oct-13	8270C	
Methylnaphthalene, 1-	90-12-0	BD	0.50	ug/L	16-Oct-13	8270C	
Methylnaphthalene, 2-	91-57-6	BD	0.50	ug/L	16-Oct-13	8270C	
Naphthalene	91-20-3	BD	0.50	ug/L	16-Oct-13	8270C	
Phenanthrene	85-01-8	BD	0.50	ug/L	16-Oct-13	8270C	
Pyrene	129-00-0	BD	0.50	ug/L	16-Oct-13	8270C	

Dissolved Metals by ICPMS

Analyte	CAS Number	Result	Reporting Limit	Units	Analyzed	Method	Notes
Antimony	7440-36-0	BD	1	ug/L	09-Oct-13	200.8	
Arsenic	7440-38-2	BD	1	ug/L	09-Oct-13	200.8	
Beryllium	7440-41-7	BD	1	ug/L	09-Oct-13	200.8	
Cadmium	7440-43-9	BD	1	ug/L	09-Oct-13	200.8	
Chromium	7440-47-3	**13**	1	ug/L	09-Oct-13	200.8	CCV
Copper	7440-50-8	**6**	1	ug/L	09-Oct-13	200.8	
Lead	7439-92-1	BD	1	ug/L	09-Oct-13	200.8	
Mercury	7439-97-6	BD	0.2	ug/L	09-Oct-13	200.8	
Nickel	7440-02-0	**16**	1	ug/L	09-Oct-13	200.8	
Selenium	7782-49-2	**13**	1	ug/L	09-Oct-13	200.8	
Silver	7440-22-4	BD	1	ug/L	09-Oct-13	200.8	
Thallium	7440-28-0	BD	1	ug/L	09-Oct-13	200.8	
Zinc	7440-66-6	**31**	1	ug/L	09-Oct-13	200.8	

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Sovereign Consulting, Inc.	Project: Frank Bean Road - Laconia, NH	
7 Hills Avenue	Project Number: NH011	**Reported:**
Concord NH, 03301	Project Manager: Mr. Mark Henderson	17-Oct-13 16:28

SB-119/MW
1310031-02 (Water)

Sampled: 3-Oct-13

Volatile Organic Compounds by EPA 8260B

Analyte	CAS Number	Result	Reporting Limit	Units	Analyzed	Notes
Acetone	67-64-1	BD	50	ug/L	09-Oct-13	
Benzene	71-43-2	BD	0.8	ug/L	09-Oct-13	
Bromobenzene	108-86-1	BD	2.0	ug/L	09-Oct-13	
Bromochloromethane	74-97-5	BD	2.0	ug/L	09-Oct-13	
Bromodichloromethane	75-27-4	BD	2.0	ug/L	09-Oct-13	
Bromoform	75-25-2	BD	2.0	ug/L	09-Oct-13	
Bromomethane	74-83-9	BD	2.0	ug/L	09-Oct-13	
Butylbenzene, n-	104-51-8	BD	2.0	ug/L	09-Oct-13	
Butylbenzene, sec-	135-98-8	BD	2.0	ug/L	09-Oct-13	
Butylbenzene, tert-	98-06-6	BD	2.0	ug/L	09-Oct-13	
Carbon disulfide	75-15-0	BD	8.0	ug/L	09-Oct-13	
Carbon Tetrachloride	56-23-5	BD	2.0	ug/L	09-Oct-13	
Chloroethane	75-00-3	BD	2.0	ug/L	09-Oct-13	
Chloromethane	74-87-3	BD	4.0	ug/L	09-Oct-13	
Chlorotoluene, 2	95-49-8	BD	2.0	ug/L	09-Oct-13	
Chlorotoluene, 4	106-43-4	BD	2.0	ug/L	09-Oct-13	
Dibromochloromethane	124-48-1	BD	2.0	ug/L	09-Oct-13	
Dibromochloropropane	96-12-8	BD	4.0	ug/L	09-Oct-13	
Dibromomethane	74-95-3	BD	2.0	ug/L	09-Oct-13	
Dichlorobenzene, 1,2-	95-50-1	BD	2.0	ug/L	09-Oct-13	
Dichlorobenzene, 1,3-	541-73-1	BD	2.0	ug/L	09-Oct-13	
Dichlorobenzene, 1,4-	106-46-7	BD	2.0	ug/L	09-Oct-13	
Dichlorodifluoromethane	75-71-8	BD	4.0	ug/L	09-Oct-13	
Dichloroethane, 1,1-	75-34-3	BD	2.0	ug/L	09-Oct-13	
Dichloroethane, 1,2-	107-06-2	BD	2.0	ug/L	09-Oct-13	
Dichloroethylene, 1,1-	75-35-4	BD	2.0	ug/L	09-Oct-13	
Dichloroethylene, cis-1,2-	156-59-2	BD	2.0	ug/L	09-Oct-13	
Dichloroethylene, trans-1,2-	156-60-5	BD	2.0	ug/L	09-Oct-13	
Dichloromethane	75-09-2	BD	4.0	ug/L	09-Oct-13	
Dichloropropane, 1,2-	78-87-5	BD	2.0	ug/L	09-Oct-13	
Dichloropropane, 1,3-	142-28-9	BD	2.0	ug/L	09-Oct-13	
Dichloropropane, 2,2-	594-20-7	BD	6.0	ug/L	09-Oct-13	
Dichloropropene, 1,1-	563-58-6	BD	2.0	ug/L	09-Oct-13	
Dichloropropene, cis-1,3-	10061-01-5	BD	2.0	ug/L	09-Oct-13	
Dichloropropene, trans-1,3-	10061-02-6	BD	2.0	ug/L	09-Oct-13	
Diethyl Ether	60-29-7	BD	50	ug/L	09-Oct-13	
Diisopropyl Ether	108-20-3	BD	2.0	ug/L	09-Oct-13	
Ethylbenzene	100-41-4	BD	2.0	ug/L	09-Oct-13	
Ethylene dibromide	106-93-4	BD	2.0	ug/L	09-Oct-13	
Ethyl tert-Butyl Ether	637-92-3	BD	2.0	ug/L	09-Oct-13	

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Sovereign Consulting, Inc.	Project: Frank Bean Road - Laconia, NH	
7 Hills Avenue	Project Number: NH011	**Reported:**
Concord NH, 03301	Project Manager: Mr. Mark Henderson	17-Oct-13 16:28

SB-119/MW
1310031-02 (Water)

Sampled: 3-Oct-13

Volatile Organic Compounds by EPA 8260B

Analyte	CAS Number	Result	Reporting Limit	Units	Analyzed	Notes
Hexachlorobutadiene	87-68-3	BD	4.0	ug/L	09-Oct-13	
Isopropylbenzene	98-82-8	BD	2.0	ug/L	09-Oct-13	
Isopropyltoluene, p-	99-87-6	BD	2.0	ug/L	09-Oct-13	
Methyl Butyl Ketone (2-Hexanone)	591-78-6	BD	50	ug/L	09-Oct-13	
Methyl Ethyl Ketone (2-Butanone)	78-93-3	BD	50	ug/L	09-Oct-13	
Methyl Isobutyl Ketone	108-10-1	BD	50	ug/L	09-Oct-13	
Methyl-tert-Butyl Ether	1634-04-4	BD	0.8	ug/L	09-Oct-13	
Monochlorobenzene	108-90-7	BD	2.0	ug/L	09-Oct-13	
Naphthalene	91-20-3	BD	4.0	ug/L	09-Oct-13	
n-Propylbenzene	103-65-1	BD	2.0	ug/L	09-Oct-13	
Styrene	100-42-5	BD	2.0	ug/L	09-Oct-13	
tert-Amyl Methyl Ether	994-05-8	BD	4.0	ug/L	09-Oct-13	
tert-Butyl alcohol	75-65-0	BD	20	ug/L	09-Oct-13	
Tetrachloroethane, 1,1,1,2-	630-20-6	BD	2.0	ug/L	09-Oct-13	
Tetrachloroethane, 1,1,2,2-	79-34-5	BD	2.0	ug/L	09-Oct-13	
Tetrachloroethylene	127-18-4	**2.4**	2.0	ug/L	09-Oct-13	
Tetrahydrofuran	109-99-9	BD	50	ug/L	09-Oct-13	
Toluene	108-88-3	BD	2.0	ug/L	09-Oct-13	
Trichlorobenzene, 1,2,3-	87-61-6	BD	4.0	ug/L	09-Oct-13	
Trichlorobenzene, 1,2,4-	120-82-1	BD	4.0	ug/L	09-Oct-13	
Trichlorobenzene, 1,3,5-	108-70-3	BD	4.0	ug/L	09-Oct-13	
Trichloroethane, 1,1,1-	71-55-6	BD	2.0	ug/L	09-Oct-13	
Trichloroethane, 1,1,2-	79-00-5	BD	2.0	ug/L	09-Oct-13	
Trichloroethylene	79-01-6	**14**	0.8	ug/L	09-Oct-13	
Trichloro 1,1,2-, trifluoro 1,2,2-, ethane	76-13-1	BD	4.0	ug/L	09-Oct-13	
Trichlorofluoromethane	75-69-4	BD	4.0	ug/L	09-Oct-13	
Trichloromethane	67-66-3	BD	2.0	ug/L	09-Oct-13	
Trichloropropane, 1,2,3-	96-18-4	BD	2.0	ug/L	09-Oct-13	
Trimethylbenzene, 1,2,4-	95-63-6	BD	2.0	ug/L	09-Oct-13	
Trimethylbenzene, 1,3,5-	108-67-8	BD	2.0	ug/L	09-Oct-13	
Vinyl chloride	75-01-4	BD	0.8	ug/L	09-Oct-13	
Xylenes, m & p-	108-38-3,106-42-3	BD	4.0	ug/L	09-Oct-13	
Xylenes, o-	95-47-6	BD	2.0	ug/L	09-Oct-13	

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Sovereign Consulting, Inc.	Project: Frank Bean Road - Laconia, NH	
7 Hills Avenue	Project Number: NH011	**Reported:**
Concord NH, 03301	Project Manager: Mr. Mark Henderson	17-Oct-13 16:28

SB-119/MW
1310031-02 (Water)

Sampled: 3-Oct-13

Polycyclic Aromatic Hydrocarbons

Analyte	CAS Number	Result	Reporting Limit	Units	Analyzed	Method	Notes
Acenaphthene	83-32-9	BD	0.50	ug/L	16-Oct-13	8270C	
Acenaphthylene	208-96-8	BD	0.50	ug/L	16-Oct-13	8270C	
Anthracene	120-12-7	BD	0.50	ug/L	16-Oct-13	8270C	
Benzo(a)anthracene	56-55-3	**0.33**	0.10	ug/L	16-Oct-13	8270C	
Benzo(a)pyrene	50-32-8	BD	0.20	ug/L	16-Oct-13	8270C	
Benzo(b)fluoranthene	205-99-2	**0.14**	0.10	ug/L	16-Oct-13	8270C	
Benzo(g,h,i)perylene	191-24-2	BD	0.50	ug/L	16-Oct-13	8270C	
Benzo(k)fluoranthene	207-08-9	BD	0.50	ug/L	16-Oct-13	8270C	
Chrysene	218-01-9	BD	0.50	ug/L	16-Oct-13	8270C	
Dibenz (a,h) anthracene	53-70-3	BD	0.10	ug/L	16-Oct-13	8270C	
Fluoranthene	206-44-0	BD	0.50	ug/L	16-Oct-13	8270C	
Fluorene	86-73-7	BD	0.50	ug/L	16-Oct-13	8270C	
Indeno(1,2,3-cd)pyrene	193-39-5	BD	0.10	ug/L	16-Oct-13	8270C	
Methylnaphthalene, 1-	90-12-0	BD	0.50	ug/L	16-Oct-13	8270C	
Methylnaphthalene, 2-	91-57-6	BD	0.50	ug/L	16-Oct-13	8270C	
Naphthalene	91-20-3	BD	0.50	ug/L	16-Oct-13	8270C	
Phenanthrene	85-01-8	BD	0.50	ug/L	16-Oct-13	8270C	
Pyrene	129-00-0	BD	0.50	ug/L	16-Oct-13	8270C	

Dissolved Metals by ICPMS

Analyte	CAS Number	Result	Reporting Limit	Units	Analyzed	Method	Notes
Antimony	7440-36-0	BD	2	ug/L	14-Oct-13	200.8	
Arsenic	7440-38-2	BD	2	ug/L	14-Oct-13	200.8	
Beryllium	7440-41-7	BD	2	ug/L	14-Oct-13	200.8	
Cadmium	7440-43-9	BD	2	ug/L	14-Oct-13	200.8	
Chromium	7440-47-3	**6**	2	ug/L	14-Oct-13	200.8	
Copper	7440-50-8	**5**	2	ug/L	14-Oct-13	200.8	CCVa
Lead	7439-92-1	BD	2	ug/L	14-Oct-13	200.8	
Mercury	7439-97-6	BD	0.4	ug/L	14-Oct-13	200.8	
Nickel	7440-02-0	**4**	2	ug/L	14-Oct-13	200.8	CCVa
Selenium	7782-49-2	**21**	2	ug/L	14-Oct-13	200.8	CCVa
Silver	7440-22-4	BD	2	ug/L	14-Oct-13	200.8	
Thallium	7440-28-0	BD	2	ug/L	14-Oct-13	200.8	
Zinc	7440-66-6	**30**	2	ug/L	14-Oct-13	200.8	

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Sovereign Consulting, Inc.	Project: Frank Bean Road - Laconia, NH	
7 Hills Avenue	Project Number: NH011	**Reported:**
Concord NH, 03301	Project Manager: Mr. Mark Henderson	17-Oct-13 16:28

SB-120/MW
1310031-03 (Water)

Sampled: 3-Oct-13

Volatile Organic Compounds by EPA 8260B

Analyte	CAS Number	Result	Reporting Limit	Units	Analyzed	Notes
Acetone	67-64-1	BD	50	ug/L	10-Oct-13	
Benzene	71-43-2	BD	0.8	ug/L	10-Oct-13	
Bromobenzene	108-86-1	BD	2.0	ug/L	10-Oct-13	
Bromochloromethane	74-97-5	BD	2.0	ug/L	10-Oct-13	
Bromodichloromethane	75-27-4	BD	2.0	ug/L	10-Oct-13	
Bromoform	75-25-2	BD	2.0	ug/L	10-Oct-13	
Bromomethane	74-83-9	BD	2.0	ug/L	10-Oct-13	
Butylbenzene, n-	104-51-8	BD	2.0	ug/L	10-Oct-13	
Butylbenzene, sec-	135-98-8	BD	2.0	ug/L	10-Oct-13	
Butylbenzene, tert-	98-06-6	BD	2.0	ug/L	10-Oct-13	
Carbon disulfide	75-15-0	BD	8.0	ug/L	10-Oct-13	
Carbon Tetrachloride	56-23-5	BD	2.0	ug/L	10-Oct-13	
Chloroethane	75-00-3	BD	2.0	ug/L	10-Oct-13	
Chloromethane	74-87-3	BD	4.0	ug/L	10-Oct-13	
Chlorotoluene, 2	95-49-8	BD	2.0	ug/L	10-Oct-13	
Chlorotoluene, 4	106-43-4	BD	2.0	ug/L	10-Oct-13	
Dibromochloromethane	124-48-1	BD	2.0	ug/L	10-Oct-13	
Dibromochloropropane	96-12-8	BD	4.0	ug/L	10-Oct-13	
Dibromomethane	74-95-3	BD	2.0	ug/L	10-Oct-13	
Dichlorobenzene, 1,2-	95-50-1	BD	2.0	ug/L	10-Oct-13	
Dichlorobenzene, 1,3-	541-73-1	BD	2.0	ug/L	10-Oct-13	
Dichlorobenzene, 1,4-	106-46-7	BD	2.0	ug/L	10-Oct-13	
Dichlorodifluoromethane	75-71-8	BD	4.0	ug/L	10-Oct-13	
Dichloroethane, 1,1-	75-34-3	BD	2.0	ug/L	10-Oct-13	
Dichloroethane, 1,2-	107-06-2	BD	2.0	ug/L	10-Oct-13	
Dichloroethylene, 1,1-	75-35-4	BD	2.0	ug/L	10-Oct-13	
Dichloroethylene, cis-1,2-	156-59-2	BD	2.0	ug/L	10-Oct-13	
Dichloroethylene, trans-1,2-	156-60-5	BD	2.0	ug/L	10-Oct-13	
Dichloromethane	75-09-2	BD	4.0	ug/L	10-Oct-13	
Dichloropropane, 1,2-	78-87-5	BD	2.0	ug/L	10-Oct-13	
Dichloropropane, 1,3-	142-28-9	BD	2.0	ug/L	10-Oct-13	
Dichloropropane, 2,2-	594-20-7	BD	6.0	ug/L	10-Oct-13	
Dichloropropene, 1,1-	563-58-6	BD	2.0	ug/L	10-Oct-13	
Dichloropropene, cis-1,3-	10061-01-5	BD	2.0	ug/L	10-Oct-13	
Dichloropropene, trans-1,3-	10061-02-6	BD	2.0	ug/L	10-Oct-13	
Diethyl Ether	60-29-7	BD	50	ug/L	10-Oct-13	
Diisopropyl Ether	108-20-3	BD	2.0	ug/L	10-Oct-13	
Ethylbenzene	100-41-4	BD	2.0	ug/L	10-Oct-13	
Ethylene dibromide	106-93-4	BD	2.0	ug/L	10-Oct-13	
Ethyl tert-Butyl Ether	637-92-3	BD	2.0	ug/L	10-Oct-13	

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7 Hills Avenue	Project Number: NH011	**Reported:**
Concord NH, 03301	Project Manager: Mr. Mark Henderson	17-Oct-13 16:28

SB-120/MW
1310031-03 (Water)

Sampled: 3-Oct-13

Volatile Organic Compounds by EPA 8260B

Analyte	CAS Number	Result	Reporting Limit	Units	Analyzed	Notes
Hexachlorobutadiene	87-68-3	BD	4.0	ug/L	10-Oct-13	
Isopropylbenzene	98-82-8	BD	2.0	ug/L	10-Oct-13	
Isopropyltoluene, p-	99-87-6	BD	2.0	ug/L	10-Oct-13	
Methyl Butyl Ketone (2-Hexanone)	591-78-6	BD	50	ug/L	10-Oct-13	
Methyl Ethyl Ketone (2-Butanone)	78-93-3	BD	50	ug/L	10-Oct-13	
Methyl Isobutyl Ketone	108-10-1	BD	50	ug/L	10-Oct-13	
Methyl-tert-Butyl Ether	1634-04-4	BD	0.8	ug/L	10-Oct-13	
Monochlorobenzene	108-90-7	BD	2.0	ug/L	10-Oct-13	
Naphthalene	91-20-3	BD	4.0	ug/L	10-Oct-13	
n-Propylbenzene	103-65-1	BD	2.0	ug/L	10-Oct-13	
Styrene	100-42-5	BD	2.0	ug/L	10-Oct-13	
tert-Amyl Methyl Ether	994-05-8	BD	4.0	ug/L	10-Oct-13	
tert-Butyl alcohol	75-65-0	BD	20	ug/L	10-Oct-13	
Tetrachloroethane, 1,1,1,2-	630-20-6	BD	2.0	ug/L	10-Oct-13	
Tetrachloroethane, 1,1,2,2-	79-34-5	BD	2.0	ug/L	10-Oct-13	
Tetrachloroethylene	127-18-4	BD	2.0	ug/L	10-Oct-13	
Tetrahydrofuran	109-99-9	BD	50	ug/L	10-Oct-13	
Toluene	108-88-3	BD	2.0	ug/L	10-Oct-13	
Trichlorobenzene, 1,2,3-	87-61-6	BD	4.0	ug/L	10-Oct-13	
Trichlorobenzene, 1,2,4-	120-82-1	BD	4.0	ug/L	10-Oct-13	
Trichlorobenzene, 1,3,5-	108-70-3	BD	4.0	ug/L	10-Oct-13	
Trichloroethane, 1,1,1-	71-55-6	BD	2.0	ug/L	10-Oct-13	
Trichloroethane, 1,1,2-	79-00-5	BD	2.0	ug/L	10-Oct-13	
Trichloroethylene	79-01-6	BD	0.8	ug/L	10-Oct-13	
Trichloro 1,1,2-, trifluoro 1,2,2-, ethane	76-13-1	BD	4.0	ug/L	10-Oct-13	
Trichlorofluoromethane	75-69-4	BD	4.0	ug/L	10-Oct-13	
Trichloromethane	67-66-3	BD	2.0	ug/L	10-Oct-13	
Trichloropropane, 1,2,3-	96-18-4	BD	2.0	ug/L	10-Oct-13	
Trimethylbenzene, 1,2,4-	95-63-6	BD	2.0	ug/L	10-Oct-13	
Trimethylbenzene, 1,3,5-	108-67-8	BD	2.0	ug/L	10-Oct-13	
Vinyl chloride	75-01-4	BD	0.8	ug/L	10-Oct-13	
Xylenes, m & p-	108-38-3,106-42-3	BD	4.0	ug/L	10-Oct-13	
Xylenes, o-	95-47-6	BD	2.0	ug/L	10-Oct-13	

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Laboratory Services
153 West Road
Canterbury, N.H. 03224
Phone - 603-783-9097
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Sovereign Consulting, Inc.	Project: Frank Bean Road - Laconia, NH	
7 Hills Avenue	Project Number: NH011	**Reported:**
Concord NH, 03301	Project Manager: Mr. Mark Henderson	17-Oct-13 16:28

SB-120/MW
1310031-03 (Water)

Sampled: 3-Oct-13

Polycyclic Aromatic Hydrocarbons

Analyte	CAS Number	Result	Reporting Limit	Units	Analyzed	Method	Notes
Acenaphthene	83-32-9	BD	0.50	ug/L	16-Oct-13	8270C	
Acenaphthylene	208-96-8	BD	0.50	ug/L	16-Oct-13	8270C	
Anthracene	120-12-7	BD	0.50	ug/L	16-Oct-13	8270C	
Benzo(a)anthracene	56-55-3	**0.17**	0.10	ug/L	16-Oct-13	8270C	
Benzo(a)pyrene	50-32-8	BD	0.20	ug/L	16-Oct-13	8270C	
Benzo(b)fluoranthene	205-99-2	BD	0.10	ug/L	16-Oct-13	8270C	
Benzo(g,h,i)perylene	191-24-2	BD	0.50	ug/L	16-Oct-13	8270C	
Benzo(k)fluoranthene	207-08-9	BD	0.50	ug/L	16-Oct-13	8270C	
Chrysene	218-01-9	BD	0.50	ug/L	16-Oct-13	8270C	
Dibenz (a,h) anthracene	53-70-3	BD	0.10	ug/L	16-Oct-13	8270C	
Fluoranthene	206-44-0	BD	0.50	ug/L	16-Oct-13	8270C	
Fluorene	86-73-7	BD	0.50	ug/L	16-Oct-13	8270C	
Indeno(1,2,3-cd)pyrene	193-39-5	BD	0.10	ug/L	16-Oct-13	8270C	
Methylnaphthalene, 1-	90-12-0	BD	0.50	ug/L	16-Oct-13	8270C	
Methylnaphthalene, 2-	91-57-6	BD	0.50	ug/L	16-Oct-13	8270C	
Naphthalene	91-20-3	BD	0.50	ug/L	16-Oct-13	8270C	
Phenanthrene	85-01-8	BD	0.50	ug/L	16-Oct-13	8270C	
Pyrene	129-00-0	BD	0.50	ug/L	16-Oct-13	8270C	

Dissolved Metals by ICPMS

Analyte	CAS Number	Result	Reporting Limit	Units	Analyzed	Method	Notes
Antimony	7440-36-0	BD	2	ug/L	14-Oct-13	200.8	
Arsenic	7440-38-2	BD	2	ug/L	14-Oct-13	200.8	
Beryllium	7440-41-7	BD	1	ug/L	09-Oct-13	200.8	
Cadmium	7440-43-9	BD	2	ug/L	14-Oct-13	200.8	
Chromium	7440-47-3	**3**	2	ug/L	14-Oct-13	200.8	
Copper	7440-50-8	BD	2	ug/L	14-Oct-13	200.8	
Lead	7439-92-1	BD	1	ug/L	09-Oct-13	200.8	
Mercury	7439-97-6	BD	0.2	ug/L	09-Oct-13	200.8	
Nickel	7440-02-0	**5**	2	ug/L	14-Oct-13	200.8	CCVb
Selenium	7782-49-2	BD	2	ug/L	14-Oct-13	200.8	
Silver	7440-22-4	BD	2	ug/L	14-Oct-13	200.8	
Thallium	7440-28-0	BD	1	ug/L	09-Oct-13	200.8	
Zinc	7440-66-6	**31**	2	ug/L	14-Oct-13	200.8	

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Sovereign Consulting, Inc.	Project:	Frank Bean Road - Laconia, NH	
7 Hills Avenue	Project Number:	NH011	**Reported:**
Concord NH, 03301	Project Manager:	Mr. Mark Henderson	17-Oct-13 16:28

Notes and Definitions

CCVb Calibration Check exceeds limits Ni 117%.

CCVa Calibration Check exceeds limits Cu 120%, Ni 117%, Se 113%.

CCV Calibration Check exceeds limits Cr 84%.

BD Analyte result below the laboratory reporting limit

NR Not Reported

Soil sample results reported on a dry weight basis.

The reporting limit is the lowest level at which reliable quantitation has been demonstrated.

Analytes in **bold** are values reported above the reporting limit.

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Aquarian Analytical, Inc.

Laboratory Services

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E-Mail: aquarianlab@comcast.net

Turnaround Requirements (check one)

RUSH SAMPLES NEED PRIOR APPROVAL

____ Same Day Turnaround (150% upcharge)
____ One Day Turnaround (100% upcharge)
____ Two Day Turnaround (50% upcharge)
____ Three Day Turnaround (25% upcharge)
X Normal turnaround

Project Information

Project #:	NH011	Project Manager:	Mark Henderson
Project Name:	Frank Bean Rd.	Report to:	Sovereign Consulting
Town/Site:	Laconia, NH	Invoice to:	Sovereign Consulting
Sampler:	Dylan Bush	Phone:	603-856-8644
Company:	Sovereign Consulting	E-Mail:	mhenderson@sovcon.com
BID Reference:			

Sample Information / VOC's-SVOC's / TPH / Metals / TCLP / Other (list)

NELAC QC Y ___ N ___

AAI Work Order #	Sample ID	Sample Collection Time	Sample Matrix	Number of Containers	EPA 8260 w / oxygenates	BTEX / MTBE	BTEX+MTBE+Naphthalene	Chlorinated only	EPA 524.2 Drinking Water	EDB	1,4 Dioxane	EPA 8270 A-B/N	EPA 8270 PAH	EPA 8015M Gasoline	EPA 8100M Fuel Oil	Fingerprint	RCRA 8	Field Filtered: DISSOLVED	Lab Filtered:	13 PP METALS	Zero Headspace Extraction (ZHE)	TCLP Pesticides	TCLP Herbicides	TCLP Metals	PCB	EPA SW846-7 Reactivity	EPA 1010 Flashpoint / Ignitab	EPA 150.1 / 9045 pH	Alkalinity	Nitrate	Sulfate	Chloride	NH DES Full LIST
1310021-01	SB-101/MW	10-3-13 / 14:15	GW	4									X					X		X													X
-02	SB-119/MW	15:15																															
-03	SB-120/MW	15:52																															

Relinquished by: Dylan Bush	Date: 10-3-13 Time: 17:30	Received by: SOVEREIGN REFRIGERATOR	Notes: * Samples kept on ice during transport
Relinquished by: Refridgerator	Date: 10-7-13 Time: 845	Received by: Tony Shea	Temperature 2 °C
Relinquished by:	Date: Time:	Received by:	Is this N.H. "ODD Fund" related? Y____ N____ ✓

Aquarian Analytical will subcontract those tests we do not perform with your prior approval

Please keep samples on ice from the time of collection

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29 October 2013

Mr. Mark Henderson
Sovereign Consulting, Inc.
7 Hills Avenue
Concord, NH 03301

RE: Frank Bean Road - Laconia, NH

Dear Mr. Henderson:

Enclosed are the results of analyses for the following samples, which were received at 4 c.

Laboratory ID	Sample ID	Sample matrix	Date sampled	Date received
1310068-01	**SB-108/MW**	Water	16-Oct-13 08:50	17-Oct-13 08:45
1310068-02	**SB-103/MW**	Water	16-Oct-13 10:08	17-Oct-13 08:45
1310068-03	**SB-110/MW**	Water	16-Oct-13 11:45	17-Oct-13 08:45
1310068-04	**SB-120/MW**	Water	16-Oct-13 13:12	17-Oct-13 08:45
1310068-05	**SB-119/MW**	Water	16-Oct-13 14:30	17-Oct-13 08:45
1310068-06	**SB-109/MW**	Water	16-Oct-13 15:40	17-Oct-13 08:45

The results in this report relate only to the submitted samples. Please refer to our website listed above for a list of accredited parameters. If you have any questions concerning this report, please feel free to contact me.

Alan G. Naber

Laboratory Director

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Sovereign Consulting, Inc.	Project: Frank Bean Road - Laconia, NH	
7 Hills Avenue	Project Number: NH011	**Reported:**
Concord NH, 03301	Project Manager: Mr. Mark Henderson	29-Oct-13 14:41

SB-108/MW
1310068-01 (Water)

Sampled: 16-Oct-13

Volatile Organic Compounds by EPA 8260B

Analyte	CAS Number	Result	Reporting Limit	Units	Analyzed	Notes
Acetone	67-64-1	BD	50	ug/L	23-Oct-13	
Benzene	71-43-2	BD	0.8	ug/L	23-Oct-13	
Bromobenzene	108-86-1	BD	2.0	ug/L	23-Oct-13	
Bromochloromethane	74-97-5	BD	2.0	ug/L	23-Oct-13	
Bromodichloromethane	75-27-4	BD	2.0	ug/L	23-Oct-13	
Bromoform	75-25-2	BD	2.0	ug/L	23-Oct-13	
Bromomethane	74-83-9	BD	2.0	ug/L	23-Oct-13	
Butylbenzene, n-	104-51-8	BD	2.0	ug/L	23-Oct-13	
Butylbenzene, sec-	135-98-8	BD	2.0	ug/L	23-Oct-13	
Butylbenzene, tert-	98-06-6	BD	2.0	ug/L	23-Oct-13	
Carbon disulfide	75-15-0	BD	8.0	ug/L	23-Oct-13	
Carbon Tetrachloride	56-23-5	BD	2.0	ug/L	23-Oct-13	
Chloroethane	75-00-3	BD	2.0	ug/L	23-Oct-13	
Chloromethane	74-87-3	BD	4.0	ug/L	23-Oct-13	
Chlorotoluene, 2	95-49-8	BD	2.0	ug/L	23-Oct-13	
Chlorotoluene, 4	106-43-4	BD	2.0	ug/L	23-Oct-13	
Dibromochloromethane	124-48-1	BD	2.0	ug/L	23-Oct-13	
Dibromochloropropane	96-12-8	BD	4.0	ug/L	23-Oct-13	
Dibromomethane	74-95-3	BD	2.0	ug/L	23-Oct-13	
Dichlorobenzene, 1,2-	95-50-1	BD	2.0	ug/L	23-Oct-13	
Dichlorobenzene, 1,3-	541-73-1	BD	2.0	ug/L	23-Oct-13	
Dichlorobenzene, 1,4-	106-46-7	BD	2.0	ug/L	23-Oct-13	
Dichlorodifluoromethane	75-71-8	BD	4.0	ug/L	23-Oct-13	
Dichloroethane, 1,1-	75-34-3	BD	2.0	ug/L	23-Oct-13	
Dichloroethane, 1,2-	107-06-2	BD	2.0	ug/L	23-Oct-13	
Dichloroethylene, 1,1-	75-35-4	BD	2.0	ug/L	23-Oct-13	
Dichloroethylene, cis-1,2-	156-59-2	BD	2.0	ug/L	23-Oct-13	
Dichloroethylene, trans-1,2-	156-60-5	BD	2.0	ug/L	23-Oct-13	
Dichloromethane	75-09-2	BD	4.0	ug/L	23-Oct-13	
Dichloropropane, 1,2-	78-87-5	BD	2.0	ug/L	23-Oct-13	
Dichloropropane, 1,3-	142-28-9	BD	2.0	ug/L	23-Oct-13	
Dichloropropane, 2,2-	594-20-7	BD	6.0	ug/L	23-Oct-13	
Dichloropropene, 1,1-	563-58-6	BD	2.0	ug/L	23-Oct-13	
Dichloropropene, cis-1,3-	10061-01-5	BD	2.0	ug/L	23-Oct-13	
Dichloropropene, trans-1,3-	10061-02-6	BD	2.0	ug/L	23-Oct-13	
Diethyl Ether	60-29-7	BD	50	ug/L	23-Oct-13	
Diisopropyl Ether	108-20-3	BD	2.0	ug/L	23-Oct-13	
Ethylbenzene	100-41-4	BD	2.0	ug/L	23-Oct-13	
Ethylene dibromide	106-93-4	BD	2.0	ug/L	23-Oct-13	
Ethyl tert-Butyl Ether	637-92-3	BD	2.0	ug/L	23-Oct-13	

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Sovereign Consulting, Inc.	Project: Frank Bean Road - Laconia, NH	
7 Hills Avenue	Project Number: NH011	**Reported:**
Concord NH, 03301	Project Manager: Mr. Mark Henderson	29-Oct-13 14:41

SB-108/MW
1310068-01 (Water)

Sampled: 16-Oct-13

Volatile Organic Compounds by EPA 8260B

Analyte	CAS Number	Result	Reporting Limit	Units	Analyzed	Notes
Hexachlorobutadiene	87-68-3	BD	4.0	ug/L	23-Oct-13	
Isopropylbenzene	98-82-8	BD	2.0	ug/L	23-Oct-13	
Isopropyltoluene, p-	99-87-6	BD	2.0	ug/L	23-Oct-13	
Methyl Butyl Ketone (2-Hexanone)	591-78-6	BD	50	ug/L	23-Oct-13	
Methyl Ethyl Ketone (2-Butanone)	78-93-3	BD	50	ug/L	23-Oct-13	
Methyl Isobutyl Ketone	108-10-1	BD	50	ug/L	23-Oct-13	
Methyl-tert-Butyl Ether	1634-04-4	BD	0.8	ug/L	23-Oct-13	
Monochlorobenzene	108-90-7	BD	2.0	ug/L	23-Oct-13	
Naphthalene	91-20-3	BD	4.0	ug/L	23-Oct-13	
n-Propylbenzene	103-65-1	BD	2.0	ug/L	23-Oct-13	
Styrene	100-42-5	BD	2.0	ug/L	23-Oct-13	
tert-Amyl Methyl Ether	994-05-8	BD	4.0	ug/L	23-Oct-13	
tert-Butyl alcohol	75-65-0	BD	20	ug/L	23-Oct-13	
Tetrachloroethane, 1,1,1,2-	630-20-6	BD	2.0	ug/L	23-Oct-13	
Tetrachloroethane, 1,1,2,2-	79-34-5	BD	2.0	ug/L	23-Oct-13	
Tetrachloroethylene	127-18-4	BD	2.0	ug/L	23-Oct-13	
Tetrahydrofuran	109-99-9	BD	50	ug/L	23-Oct-13	
Toluene	108-88-3	BD	2.0	ug/L	23-Oct-13	
Trichlorobenzene, 1,2,3-	87-61-6	BD	4.0	ug/L	23-Oct-13	
Trichlorobenzene, 1,2,4-	120-82-1	BD	4.0	ug/L	23-Oct-13	
Trichlorobenzene, 1,3,5-	108-70-3	BD	4.0	ug/L	23-Oct-13	
Trichloroethane, 1,1,1-	71-55-6	BD	2.0	ug/L	23-Oct-13	
Trichloroethane, 1,1,2-	79-00-5	BD	2.0	ug/L	23-Oct-13	
Trichloroethylene	79-01-6	BD	0.8	ug/L	23-Oct-13	
Trichloro 1,1,2-, trifluoro 1,2,2-, ethane	76-13-1	BD	4.0	ug/L	23-Oct-13	
Trichlorofluoromethane	75-69-4	BD	4.0	ug/L	23-Oct-13	
Trichloromethane	67-66-3	BD	2.0	ug/L	23-Oct-13	
Trichloropropane, 1,2,3-	96-18-4	BD	2.0	ug/L	23-Oct-13	
Trimethylbenzene, 1,2,4-	95-63-6	BD	2.0	ug/L	23-Oct-13	
Trimethylbenzene, 1,3,5-	108-67-8	BD	2.0	ug/L	23-Oct-13	
Vinyl chloride	75-01-4	BD	0.8	ug/L	23-Oct-13	
Xylenes, m & p-	108-38-3,106-42-3	BD	4.0	ug/L	23-Oct-13	
Xylenes, o-	95-47-6	BD	2.0	ug/L	23-Oct-13	

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Sovereign Consulting, Inc.	Project: Frank Bean Road - Laconia, NH	
7 Hills Avenue	Project Number: NH011	**Reported:**
Concord NH, 03301	Project Manager: Mr. Mark Henderson	29-Oct-13 14:41

SB-108/MW
1310068-01 (Water)

Sampled: 16-Oct-13

Polycyclic Aromatic Hydrocarbons

Analyte	CAS Number	Result	Reporting Limit	Units	Analyzed	Method	Notes
Acenaphthene	83-32-9	BD	0.51	ug/L	27-Oct-13	8270C	
Acenaphthylene	208-96-8	BD	0.51	ug/L	27-Oct-13	8270C	
Anthracene	120-12-7	BD	0.51	ug/L	27-Oct-13	8270C	
Benzo(a)anthracene	56-55-3	**0.12**	0.10	ug/L	27-Oct-13	8270C	
Benzo(a)pyrene	50-32-8	BD	0.41	ug/L	27-Oct-13	8270C	
Benzo(b)fluoranthene	205-99-2	BD	0.51	ug/L	27-Oct-13	8270C	
Benzo(g,h,i)perylene	191-24-2	BD	0.51	ug/L	27-Oct-13	8270C	
Benzo(k)fluoranthene	207-08-9	BD	0.62	ug/L	27-Oct-13	8270C	
Chrysene	218-01-9	BD	0.51	ug/L	27-Oct-13	8270C	
Dibenz (a,h) anthracene	53-70-3	BD	0.10	ug/L	27-Oct-13	8270C	LCS
Fluoranthene	206-44-0	BD	0.51	ug/L	27-Oct-13	8270C	
Fluorene	86-73-7	BD	0.51	ug/L	27-Oct-13	8270C	
Indeno(1,2,3-cd)pyrene	193-39-5	BD	0.51	ug/L	27-Oct-13	8270C	
Methylnaphthalene, 1-	90-12-0	BD	0.51	ug/L	27-Oct-13	8270C	
Methylnaphthalene, 2-	91-57-6	BD	0.51	ug/L	27-Oct-13	8270C	
Naphthalene	91-20-3	BD	0.51	ug/L	27-Oct-13	8270C	
Phenanthrene	85-01-8	BD	0.51	ug/L	27-Oct-13	8270C	
Pyrene	129-00-0	BD	0.51	ug/L	27-Oct-13	8270C	

Dissolved Metals by ICPMS

Analyte	CAS Number	Result	Reporting Limit	Units	Analyzed	Method	Notes
Antimony	7440-36-0	BD	2	ug/L	21-Oct-13	200.8	
Arsenic	7440-38-2	BD	2	ug/L	24-Oct-13	200.8	
Beryllium	7440-41-7	BD	2	ug/L	21-Oct-13	200.8	
Cadmium	7440-43-9	BD	2	ug/L	24-Oct-13	200.8	
Chromium	7440-47-3	BD	2	ug/L	23-Oct-13	200.8	CCV
Copper	7440-50-8	**4**	2	ug/L	23-Oct-13	200.8	
Lead	7439-92-1	BD	2	ug/L	23-Oct-13	200.8	
Mercury	7439-97-6	BD	0.4	ug/L	21-Oct-13	200.8	
Nickel	7440-02-0	**9**	2	ug/L	23-Oct-13	200.8	
Selenium	7782-49-2	BD	2	ug/L	21-Oct-13	200.8	
Silver	7440-22-4	BD	2	ug/L	23-Oct-13	200.8	
Thallium	7440-28-0	BD	2	ug/L	21-Oct-13	200.8	
Zinc	7440-66-6	**42**	2	ug/L	24-Oct-13	200.8	

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Sovereign Consulting, Inc.	Project: Frank Bean Road - Laconia, NH	
7 Hills Avenue	Project Number: NH011	**Reported:**
Concord NH, 03301	Project Manager: Mr. Mark Henderson	29-Oct-13 14:41

SB-103/MW
1310068-02 (Water)

Sampled: 16-Oct-13

Volatile Organic Compounds by EPA 8260B

Analyte	CAS Number	Result	Reporting Limit	Units	Analyzed	Notes
Acetone	67-64-1	BD	50	ug/L	23-Oct-13	
Benzene	71-43-2	BD	0.8	ug/L	23-Oct-13	
Bromobenzene	108-86-1	BD	2.0	ug/L	23-Oct-13	
Bromochloromethane	74-97-5	BD	2.0	ug/L	23-Oct-13	
Bromodichloromethane	75-27-4	BD	2.0	ug/L	23-Oct-13	
Bromoform	75-25-2	BD	2.0	ug/L	23-Oct-13	
Bromomethane	74-83-9	BD	2.0	ug/L	23-Oct-13	
Butylbenzene, n-	104-51-8	**2.3**	2.0	ug/L	23-Oct-13	
Butylbenzene, sec-	135-98-8	**3.4**	2.0	ug/L	23-Oct-13	
Butylbenzene, tert-	98-06-6	BD	2.0	ug/L	23-Oct-13	
Carbon disulfide	75-15-0	BD	8.0	ug/L	23-Oct-13	
Carbon Tetrachloride	56-23-5	BD	2.0	ug/L	23-Oct-13	
Chloroethane	75-00-3	BD	2.0	ug/L	23-Oct-13	
Chloromethane	74-87-3	BD	4.0	ug/L	23-Oct-13	
Chlorotoluene, 2	95-49-8	BD	2.0	ug/L	23-Oct-13	
Chlorotoluene, 4	106-43-4	BD	2.0	ug/L	23-Oct-13	
Dibromochloromethane	124-48-1	BD	2.0	ug/L	23-Oct-13	
Dibromochloropropane	96-12-8	BD	4.0	ug/L	23-Oct-13	
Dibromomethane	74-95-3	BD	2.0	ug/L	23-Oct-13	
Dichlorobenzene, 1,2-	95-50-1	**13**	2.0	ug/L	23-Oct-13	
Dichlorobenzene, 1,3-	541-73-1	BD	2.0	ug/L	23-Oct-13	
Dichlorobenzene, 1,4-	106-46-7	BD	2.0	ug/L	23-Oct-13	
Dichlorodifluoromethane	75-71-8	BD	4.0	ug/L	23-Oct-13	
Dichloroethane, 1,1-	75-34-3	BD	2.0	ug/L	23-Oct-13	
Dichloroethane, 1,2-	107-06-2	BD	2.0	ug/L	23-Oct-13	
Dichloroethylene, 1,1-	75-35-4	BD	2.0	ug/L	23-Oct-13	
Dichloroethylene, cis-1,2-	156-59-2	BD	2.0	ug/L	23-Oct-13	
Dichloroethylene, trans-1,2-	156-60-5	BD	2.0	ug/L	23-Oct-13	
Dichloromethane	75-09-2	BD	4.0	ug/L	23-Oct-13	
Dichloropropane, 1,2-	78-87-5	BD	2.0	ug/L	23-Oct-13	
Dichloropropane, 1,3-	142-28-9	BD	2.0	ug/L	23-Oct-13	
Dichloropropane, 2,2-	594-20-7	BD	6.0	ug/L	23-Oct-13	
Dichloropropene, 1,1-	563-58-6	BD	2.0	ug/L	23-Oct-13	
Dichloropropene, cis-1,3-	10061-01-5	BD	2.0	ug/L	23-Oct-13	
Dichloropropene, trans-1,3-	10061-02-6	BD	2.0	ug/L	23-Oct-13	
Diethyl Ether	60-29-7	BD	50	ug/L	23-Oct-13	
Diisopropyl Ether	108-20-3	BD	2.0	ug/L	23-Oct-13	
Ethylbenzene	100-41-4	BD	2.0	ug/L	23-Oct-13	
Ethylene dibromide	106-93-4	BD	2.0	ug/L	23-Oct-13	
Ethyl tert-Butyl Ether	637-92-3	BD	2.0	ug/L	23-Oct-13	

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Sovereign Consulting, Inc.	Project:	Frank Bean Road - Laconia, NH	
7 Hills Avenue	Project Number:	NH011	**Reported:**
Concord NH, 03301	Project Manager:	Mr. Mark Henderson	29-Oct-13 14:41

SB-103/MW
1310068-02 (Water)

Sampled: 16-Oct-13

Volatile Organic Compounds by EPA 8260B

Analyte	CAS Number	Result	Reporting Limit	Units	Analyzed	Notes
Hexachlorobutadiene	87-68-3	BD	4.0	ug/L	23-Oct-13	
Isopropylbenzene	98-82-8	BD	2.0	ug/L	23-Oct-13	
Isopropyltoluene, p-	99-87-6	BD	2.0	ug/L	23-Oct-13	
Methyl Butyl Ketone (2-Hexanone)	591-78-6	BD	50	ug/L	23-Oct-13	
Methyl Ethyl Ketone (2-Butanone)	78-93-3	BD	50	ug/L	23-Oct-13	
Methyl Isobutyl Ketone	108-10-1	BD	50	ug/L	23-Oct-13	
Methyl-tert-Butyl Ether	1634-04-4	BD	0.8	ug/L	23-Oct-13	
Monochlorobenzene	108-90-7	**2.1**	2.0	ug/L	23-Oct-13	
Naphthalene	91-20-3	BD	4.0	ug/L	23-Oct-13	
n-Propylbenzene	103-65-1	BD	2.0	ug/L	23-Oct-13	
Styrene	100-42-5	BD	2.0	ug/L	23-Oct-13	
tert-Amyl Methyl Ether	994-05-8	BD	4.0	ug/L	23-Oct-13	
tert-Butyl alcohol	75-65-0	BD	20	ug/L	23-Oct-13	
Tetrachloroethane, 1,1,1,2-	630-20-6	BD	2.0	ug/L	23-Oct-13	
Tetrachloroethane, 1,1,2,2-	79-34-5	BD	2.0	ug/L	23-Oct-13	
Tetrachloroethylene	127-18-4	**3.9**	2.0	ug/L	23-Oct-13	
Tetrahydrofuran	109-99-9	BD	50	ug/L	23-Oct-13	
Toluene	108-88-3	BD	2.0	ug/L	23-Oct-13	
Trichlorobenzene, 1,2,3-	87-61-6	BD	4.0	ug/L	23-Oct-13	
Trichlorobenzene, 1,2,4-	120-82-1	BD	4.0	ug/L	23-Oct-13	
Trichlorobenzene, 1,3,5-	108-70-3	BD	4.0	ug/L	23-Oct-13	
Trichloroethane, 1,1,1-	71-55-6	BD	2.0	ug/L	23-Oct-13	
Trichloroethane, 1,1,2-	79-00-5	BD	2.0	ug/L	23-Oct-13	
Trichloroethylene	79-01-6	**50**	0.8	ug/L	23-Oct-13	
Trichloro 1,1,2-, trifluoro 1,2,2-, ethane	76-13-1	BD	4.0	ug/L	23-Oct-13	
Trichlorofluoromethane	75-69-4	BD	4.0	ug/L	23-Oct-13	
Trichloromethane	67-66-3	BD	2.0	ug/L	23-Oct-13	
Trichloropropane, 1,2,3-	96-18-4	BD	2.0	ug/L	23-Oct-13	
Trimethylbenzene, 1,2,4-	95-63-6	BD	2.0	ug/L	23-Oct-13	
Trimethylbenzene, 1,3,5-	108-67-8	BD	2.0	ug/L	23-Oct-13	
Vinyl chloride	75-01-4	BD	0.8	ug/L	23-Oct-13	
Xylenes, m & p-	108-38-3,106-42-3	BD	4.0	ug/L	23-Oct-13	
Xylenes, o-	95-47-6	BD	2.0	ug/L	23-Oct-13	

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Sovereign Consulting, Inc.	Project: Frank Bean Road - Laconia, NH	
7 Hills Avenue	Project Number: NH011	**Reported:**
Concord NH, 03301	Project Manager: Mr. Mark Henderson	29-Oct-13 14:41

SB-103/MW
1310068-02 (Water)

Sampled: 16-Oct-13

Polycyclic Aromatic Hydrocarbons

Analyte	CAS Number	Result	Reporting Limit	Units	Analyzed	Method	Notes
Acenaphthene	83-32-9	**3.1**	2.7	ug/L	28-Oct-13	8270C	
Acenaphthylene	208-96-8	BD	2.7	ug/L	28-Oct-13	8270C	
Anthracene	120-12-7	BD	2.7	ug/L	28-Oct-13	8270C	
Benzo(a)anthracene	56-55-3	BD	0.54	ug/L	28-Oct-13	8270C	
Benzo(a)pyrene	50-32-8	BD	2.2	ug/L	28-Oct-13	8270C	ISTD
Benzo(b)fluoranthene	205-99-2	**3.8**	2.7	ug/L	28-Oct-13	8270C	ISTD
Benzo(g,h,i)perylene	191-24-2	BD	2.7	ug/L	28-Oct-13	8270C	ISTD
Benzo(k)fluoranthene	207-08-9	BD	3.2	ug/L	28-Oct-13	8270C	ISTD
Chrysene	218-01-9	BD	2.7	ug/L	28-Oct-13	8270C	
Dibenz (a,h) anthracene	53-70-3	BD	0.54	ug/L	28-Oct-13	8270C	ISTD, LCS
Fluoranthene	206-44-0	**6.1**	2.7	ug/L	28-Oct-13	8270C	
Fluorene	86-73-7	BD	2.7	ug/L	28-Oct-13	8270C	
Indeno(1,2,3-cd)pyrene	193-39-5	BD	2.7	ug/L	28-Oct-13	8270C	ISTD
Methylnaphthalene, 1-	90-12-0	BD	2.7	ug/L	28-Oct-13	8270C	
Methylnaphthalene, 2-	91-57-6	BD	2.7	ug/L	28-Oct-13	8270C	
Naphthalene	91-20-3	BD	2.7	ug/L	28-Oct-13	8270C	
Phenanthrene	85-01-8	BD	2.7	ug/L	28-Oct-13	8270C	
Pyrene	129-00-0	**8.1**	2.7	ug/L	28-Oct-13	8270C	

Dissolved Metals by ICPMS

Analyte	CAS Number	Result	Reporting Limit	Units	Analyzed	Method	Notes
Antimony	7440-36-0	BD	2	ug/L	21-Oct-13	200.8	
Arsenic	7440-38-2	BD	2	ug/L	24-Oct-13	200.8	
Beryllium	7440-41-7	BD	2	ug/L	21-Oct-13	200.8	
Cadmium	7440-43-9	BD	2	ug/L	24-Oct-13	200.8	
Chromium	7440-47-3	**11**	2	ug/L	23-Oct-13	200.8	CCV
Copper	7440-50-8	**4**	2	ug/L	23-Oct-13	200.8	
Lead	7439-92-1	BD	2	ug/L	23-Oct-13	200.8	
Mercury	7439-97-6	BD	0.4	ug/L	21-Oct-13	200.8	
Nickel	7440-02-0	**35**	2	ug/L	23-Oct-13	200.8	
Selenium	7782-49-2	**3**	2	ug/L	21-Oct-13	200.8	
Silver	7440-22-4	BD	2	ug/L	23-Oct-13	200.8	
Thallium	7440-28-0	BD	2	ug/L	21-Oct-13	200.8	
Zinc	7440-66-6	**580**	2	ug/L	24-Oct-13	200.8	

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Sovereign Consulting, Inc.	Project: Frank Bean Road - Laconia, NH	
7 Hills Avenue	Project Number: NH011	**Reported:**
Concord NH, 03301	Project Manager: Mr. Mark Henderson	29-Oct-13 14:41

SB-110/MW
1310068-03 (Water)

Sampled: 16-Oct-13

Volatile Organic Compounds by EPA 8260B

Analyte	CAS Number	Result	Reporting Limit	Units	Analyzed	Notes
Acetone	67-64-1	BD	50	ug/L	23-Oct-13	
Benzene	71-43-2	BD	0.8	ug/L	23-Oct-13	
Bromobenzene	108-86-1	BD	2.0	ug/L	23-Oct-13	
Bromochloromethane	74-97-5	BD	2.0	ug/L	23-Oct-13	
Bromodichloromethane	75-27-4	BD	2.0	ug/L	23-Oct-13	
Bromoform	75-25-2	BD	2.0	ug/L	23-Oct-13	
Bromomethane	74-83-9	BD	2.0	ug/L	23-Oct-13	
Butylbenzene, n-	104-51-8	BD	2.0	ug/L	23-Oct-13	
Butylbenzene, sec-	135-98-8	BD	2.0	ug/L	23-Oct-13	
Butylbenzene, tert-	98-06-6	BD	2.0	ug/L	23-Oct-13	
Carbon disulfide	75-15-0	BD	8.0	ug/L	23-Oct-13	
Carbon Tetrachloride	56-23-5	BD	2.0	ug/L	23-Oct-13	
Chloroethane	75-00-3	BD	2.0	ug/L	23-Oct-13	
Chloromethane	74-87-3	BD	4.0	ug/L	23-Oct-13	
Chlorotoluene, 2	95-49-8	BD	2.0	ug/L	23-Oct-13	
Chlorotoluene, 4	106-43-4	BD	2.0	ug/L	23-Oct-13	
Dibromochloromethane	124-48-1	BD	2.0	ug/L	23-Oct-13	
Dibromochloropropane	96-12-8	BD	4.0	ug/L	23-Oct-13	
Dibromomethane	74-95-3	BD	2.0	ug/L	23-Oct-13	
Dichlorobenzene, 1,2-	95-50-1	BD	2.0	ug/L	23-Oct-13	
Dichlorobenzene, 1,3-	541-73-1	BD	2.0	ug/L	23-Oct-13	
Dichlorobenzene, 1,4-	106-46-7	BD	2.0	ug/L	23-Oct-13	
Dichlorodifluoromethane	75-71-8	BD	4.0	ug/L	23-Oct-13	
Dichloroethane, 1,1-	75-34-3	BD	2.0	ug/L	23-Oct-13	
Dichloroethane, 1,2-	107-06-2	BD	2.0	ug/L	23-Oct-13	
Dichloroethylene, 1,1-	75-35-4	BD	2.0	ug/L	23-Oct-13	
Dichloroethylene, cis-1,2-	156-59-2	BD	2.0	ug/L	23-Oct-13	
Dichloroethylene, trans-1,2-	156-60-5	BD	2.0	ug/L	23-Oct-13	
Dichloromethane	75-09-2	BD	4.0	ug/L	23-Oct-13	
Dichloropropane, 1,2-	78-87-5	BD	2.0	ug/L	23-Oct-13	
Dichloropropane, 1,3-	142-28-9	BD	2.0	ug/L	23-Oct-13	
Dichloropropane, 2,2-	594-20-7	BD	6.0	ug/L	23-Oct-13	
Dichloropropene, 1,1-	563-58-6	BD	2.0	ug/L	23-Oct-13	
Dichloropropene, cis-1,3-	10061-01-5	BD	2.0	ug/L	23-Oct-13	
Dichloropropene, trans-1,3-	10061-02-6	BD	2.0	ug/L	23-Oct-13	
Diethyl Ether	60-29-7	BD	50	ug/L	23-Oct-13	
Diisopropyl Ether	108-20-3	BD	2.0	ug/L	23-Oct-13	
Ethylbenzene	100-41-4	BD	2.0	ug/L	23-Oct-13	
Ethylene dibromide	106-93-4	BD	2.0	ug/L	23-Oct-13	
Ethyl tert-Butyl Ether	637-92-3	BD	2.0	ug/L	23-Oct-13	

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Sovereign Consulting, Inc.	Project: Frank Bean Road - Laconia, NH	
7 Hills Avenue	Project Number: NH011	**Reported:**
Concord NH, 03301	Project Manager: Mr. Mark Henderson	29-Oct-13 14:41

SB-110/MW
1310068-03 (Water)

Sampled: 16-Oct-13

Volatile Organic Compounds by EPA 8260B

Analyte	CAS Number	Result	Reporting Limit	Units	Analyzed	Notes
Hexachlorobutadiene	87-68-3	BD	4.0	ug/L	23-Oct-13	
Isopropylbenzene	98-82-8	BD	2.0	ug/L	23-Oct-13	
Isopropyltoluene, p-	99-87-6	BD	2.0	ug/L	23-Oct-13	
Methyl Butyl Ketone (2-Hexanone)	591-78-6	BD	50	ug/L	23-Oct-13	
Methyl Ethyl Ketone (2-Butanone)	78-93-3	BD	50	ug/L	23-Oct-13	
Methyl Isobutyl Ketone	108-10-1	BD	50	ug/L	23-Oct-13	
Methyl-tert-Butyl Ether	1634-04-4	BD	0.8	ug/L	23-Oct-13	
Monochlorobenzene	108-90-7	BD	2.0	ug/L	23-Oct-13	
Naphthalene	91-20-3	BD	4.0	ug/L	23-Oct-13	
n-Propylbenzene	103-65-1	BD	2.0	ug/L	23-Oct-13	
Styrene	100-42-5	BD	2.0	ug/L	23-Oct-13	
tert-Amyl Methyl Ether	994-05-8	BD	4.0	ug/L	23-Oct-13	
tert-Butyl alcohol	75-65-0	BD	20	ug/L	23-Oct-13	
Tetrachloroethane, 1,1,1,2-	630-20-6	BD	2.0	ug/L	23-Oct-13	
Tetrachloroethane, 1,1,2,2-	79-34-5	BD	2.0	ug/L	23-Oct-13	
Tetrachloroethylene	127-18-4	BD	2.0	ug/L	23-Oct-13	
Tetrahydrofuran	109-99-9	BD	50	ug/L	23-Oct-13	
Toluene	108-88-3	BD	2.0	ug/L	23-Oct-13	
Trichlorobenzene, 1,2,3-	87-61-6	BD	4.0	ug/L	23-Oct-13	
Trichlorobenzene, 1,2,4-	120-82-1	BD	4.0	ug/L	23-Oct-13	
Trichlorobenzene, 1,3,5-	108-70-3	BD	4.0	ug/L	23-Oct-13	
Trichloroethane, 1,1,1-	71-55-6	BD	2.0	ug/L	23-Oct-13	
Trichloroethane, 1,1,2-	79-00-5	BD	2.0	ug/L	23-Oct-13	
Trichloroethylene	79-01-6	BD	0.8	ug/L	23-Oct-13	
Trichloro 1,1,2-, trifluoro 1,2,2-, ethane	76-13-1	BD	4.0	ug/L	23-Oct-13	
Trichlorofluoromethane	75-69-4	BD	4.0	ug/L	23-Oct-13	
Trichloromethane	67-66-3	BD	2.0	ug/L	23-Oct-13	
Trichloropropane, 1,2,3-	96-18-4	BD	2.0	ug/L	23-Oct-13	
Trimethylbenzene, 1,2,4-	95-63-6	BD	2.0	ug/L	23-Oct-13	
Trimethylbenzene, 1,3,5-	108-67-8	BD	2.0	ug/L	23-Oct-13	
Vinyl chloride	75-01-4	BD	0.8	ug/L	23-Oct-13	
Xylenes, m & p-	108-38-3,106-42-3	BD	4.0	ug/L	23-Oct-13	
Xylenes, o-	95-47-6	BD	2.0	ug/L	23-Oct-13	

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Sovereign Consulting, Inc.	Project: Frank Bean Road - Laconia, NH	
7 Hills Avenue	Project Number: NH011	**Reported:**
Concord NH, 03301	Project Manager: Mr. Mark Henderson	29-Oct-13 14:41

SB-110/MW
1310068-03 (Water)

Sampled: 16-Oct-13

Polycyclic Aromatic Hydrocarbons

Analyte	CAS Number	Result	Reporting Limit	Units	Analyzed	Method	Notes
Acenaphthene	83-32-9	BD	0.50	ug/L	27-Oct-13	8270C	
Acenaphthylene	208-96-8	BD	0.50	ug/L	27-Oct-13	8270C	
Anthracene	120-12-7	BD	0.50	ug/L	27-Oct-13	8270C	
Benzo(a)anthracene	56-55-3	**0.19**	0.10	ug/L	27-Oct-13	8270C	Dup
Benzo(a)pyrene	50-32-8	BD	0.40	ug/L	27-Oct-13	8270C	
Benzo(b)fluoranthene	205-99-2	BD	0.50	ug/L	27-Oct-13	8270C	
Benzo(g,h,i)perylene	191-24-2	BD	0.50	ug/L	27-Oct-13	8270C	Spk
Benzo(k)fluoranthene	207-08-9	BD	0.60	ug/L	27-Oct-13	8270C	
Chrysene	218-01-9	BD	0.50	ug/L	27-Oct-13	8270C	
Dibenz (a,h) anthracene	53-70-3	BD	0.10	ug/L	27-Oct-13	8270C	LCS, Spk
Fluoranthene	206-44-0	BD	0.50	ug/L	27-Oct-13	8270C	
Fluorene	86-73-7	BD	0.50	ug/L	27-Oct-13	8270C	
Indeno(1,2,3-cd)pyrene	193-39-5	BD	0.50	ug/L	27-Oct-13	8270C	
Methylnaphthalene, 1-	90-12-0	BD	0.50	ug/L	27-Oct-13	8270C	
Methylnaphthalene, 2-	91-57-6	BD	0.50	ug/L	27-Oct-13	8270C	
Naphthalene	91-20-3	BD	0.50	ug/L	27-Oct-13	8270C	
Phenanthrene	85-01-8	BD	0.50	ug/L	27-Oct-13	8270C	
Pyrene	129-00-0	BD	0.50	ug/L	27-Oct-13	8270C	

Dissolved Metals by ICPMS

Analyte	CAS Number	Result	Reporting Limit	Units	Analyzed	Method	Notes
Antimony	7440-36-0	BD	2	ug/L	21-Oct-13	200.8	
Arsenic	7440-38-2	BD	2	ug/L	24-Oct-13	200.8	
Beryllium	7440-41-7	BD	2	ug/L	21-Oct-13	200.8	
Cadmium	7440-43-9	BD	2	ug/L	24-Oct-13	200.8	
Chromium	7440-47-3	BD	2	ug/L	23-Oct-13	200.8	CCV
Copper	7440-50-8	BD	2	ug/L	23-Oct-13	200.8	
Lead	7439-92-1	BD	2	ug/L	23-Oct-13	200.8	
Mercury	7439-97-6	BD	0.4	ug/L	21-Oct-13	200.8	
Nickel	7440-02-0	BD	2	ug/L	23-Oct-13	200.8	
Selenium	7782-49-2	BD	2	ug/L	21-Oct-13	200.8	
Silver	7440-22-4	BD	2	ug/L	23-Oct-13	200.8	
Thallium	7440-28-0	BD	2	ug/L	21-Oct-13	200.8	
Zinc	7440-66-6	**33**	2	ug/L	24-Oct-13	200.8	

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Sovereign Consulting, Inc.	Project: Frank Bean Road - Laconia, NH	
7 Hills Avenue	Project Number: NH011	**Reported:**
Concord NH, 03301	Project Manager: Mr. Mark Henderson	29-Oct-13 14:41

SB-120/MW
1310068-04 (Water)

Sampled: 16-Oct-13

Volatile Organic Compounds by EPA 8260B

Analyte	CAS Number	Result	Reporting Limit	Units	Analyzed	Notes
Acetone	67-64-1	BD	50	ug/L	23-Oct-13	
Benzene	71-43-2	BD	0.8	ug/L	23-Oct-13	
Bromobenzene	108-86-1	BD	2.0	ug/L	23-Oct-13	
Bromochloromethane	74-97-5	BD	2.0	ug/L	23-Oct-13	
Bromodichloromethane	75-27-4	BD	2.0	ug/L	23-Oct-13	
Bromoform	75-25-2	BD	2.0	ug/L	23-Oct-13	
Bromomethane	74-83-9	BD	2.0	ug/L	23-Oct-13	
Butylbenzene, n-	104-51-8	BD	2.0	ug/L	23-Oct-13	
Butylbenzene, sec-	135-98-8	BD	2.0	ug/L	23-Oct-13	
Butylbenzene, tert-	98-06-6	BD	2.0	ug/L	23-Oct-13	
Carbon disulfide	75-15-0	BD	8.0	ug/L	23-Oct-13	
Carbon Tetrachloride	56-23-5	BD	2.0	ug/L	23-Oct-13	
Chloroethane	75-00-3	BD	2.0	ug/L	23-Oct-13	
Chloromethane	74-87-3	BD	4.0	ug/L	23-Oct-13	
Chlorotoluene, 2	95-49-8	BD	2.0	ug/L	23-Oct-13	
Chlorotoluene, 4	106-43-4	BD	2.0	ug/L	23-Oct-13	
Dibromochloromethane	124-48-1	BD	2.0	ug/L	23-Oct-13	
Dibromochloropropane	96-12-8	BD	4.0	ug/L	23-Oct-13	
Dibromomethane	74-95-3	BD	2.0	ug/L	23-Oct-13	
Dichlorobenzene, 1,2-	95-50-1	BD	2.0	ug/L	23-Oct-13	
Dichlorobenzene, 1,3-	541-73-1	BD	2.0	ug/L	23-Oct-13	
Dichlorobenzene, 1,4-	106-46-7	BD	2.0	ug/L	23-Oct-13	
Dichlorodifluoromethane	75-71-8	BD	4.0	ug/L	23-Oct-13	
Dichloroethane, 1,1-	75-34-3	BD	2.0	ug/L	23-Oct-13	
Dichloroethane, 1,2-	107-06-2	BD	2.0	ug/L	23-Oct-13	
Dichloroethylene, 1,1-	75-35-4	BD	2.0	ug/L	23-Oct-13	
Dichloroethylene, cis-1,2-	156-59-2	BD	2.0	ug/L	23-Oct-13	
Dichloroethylene, trans-1,2-	156-60-5	BD	2.0	ug/L	23-Oct-13	
Dichloromethane	75-09-2	BD	4.0	ug/L	23-Oct-13	
Dichloropropane, 1,2-	78-87-5	BD	2.0	ug/L	23-Oct-13	
Dichloropropane, 1,3-	142-28-9	BD	2.0	ug/L	23-Oct-13	
Dichloropropane, 2,2-	594-20-7	BD	6.0	ug/L	23-Oct-13	
Dichloropropene, 1,1-	563-58-6	BD	2.0	ug/L	23-Oct-13	
Dichloropropene, cis-1,3-	10061-01-5	BD	2.0	ug/L	23-Oct-13	
Dichloropropene, trans-1,3-	10061-02-6	BD	2.0	ug/L	23-Oct-13	
Diethyl Ether	60-29-7	BD	50	ug/L	23-Oct-13	
Diisopropyl Ether	108-20-3	BD	2.0	ug/L	23-Oct-13	
Ethylbenzene	100-41-4	BD	2.0	ug/L	23-Oct-13	
Ethylene dibromide	106-93-4	BD	2.0	ug/L	23-Oct-13	
Ethyl tert-Butyl Ether	637-92-3	BD	2.0	ug/L	23-Oct-13	

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Laboratory Services
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Sovereign Consulting, Inc.	Project: Frank Bean Road - Laconia, NH	
7 Hills Avenue	Project Number: NH011	**Reported:**
Concord NH, 03301	Project Manager: Mr. Mark Henderson	29-Oct-13 14:41

SB-120/MW
1310068-04 (Water)

Sampled: 16-Oct-13

Volatile Organic Compounds by EPA 8260B

Analyte	CAS Number	Result	Reporting Limit	Units	Analyzed	Notes
Hexachlorobutadiene	87-68-3	BD	4.0	ug/L	23-Oct-13	
Isopropylbenzene	98-82-8	BD	2.0	ug/L	23-Oct-13	
Isopropyltoluene, p-	99-87-6	BD	2.0	ug/L	23-Oct-13	
Methyl Butyl Ketone (2-Hexanone)	591-78-6	BD	50	ug/L	23-Oct-13	
Methyl Ethyl Ketone (2-Butanone)	78-93-3	BD	50	ug/L	23-Oct-13	
Methyl Isobutyl Ketone	108-10-1	BD	50	ug/L	23-Oct-13	
Methyl-tert-Butyl Ether	1634-04-4	BD	0.8	ug/L	23-Oct-13	
Monochlorobenzene	108-90-7	BD	2.0	ug/L	23-Oct-13	
Naphthalene	91-20-3	BD	4.0	ug/L	23-Oct-13	
n-Propylbenzene	103-65-1	BD	2.0	ug/L	23-Oct-13	
Styrene	100-42-5	BD	2.0	ug/L	23-Oct-13	
tert-Amyl Methyl Ether	994-05-8	BD	4.0	ug/L	23-Oct-13	
tert-Butyl alcohol	75-65-0	BD	20	ug/L	23-Oct-13	
Tetrachloroethane, 1,1,1,2-	630-20-6	BD	2.0	ug/L	23-Oct-13	
Tetrachloroethane, 1,1,2,2-	79-34-5	BD	2.0	ug/L	23-Oct-13	
Tetrachloroethylene	127-18-4	BD	2.0	ug/L	23-Oct-13	
Tetrahydrofuran	109-99-9	BD	50	ug/L	23-Oct-13	
Toluene	108-88-3	BD	2.0	ug/L	23-Oct-13	
Trichlorobenzene, 1,2,3-	87-61-6	BD	4.0	ug/L	23-Oct-13	
Trichlorobenzene, 1,2,4-	120-82-1	BD	4.0	ug/L	23-Oct-13	
Trichlorobenzene, 1,3,5-	108-70-3	BD	4.0	ug/L	23-Oct-13	
Trichloroethane, 1,1,1-	71-55-6	BD	2.0	ug/L	23-Oct-13	
Trichloroethane, 1,1,2-	79-00-5	BD	2.0	ug/L	23-Oct-13	
Trichloroethylene	79-01-6	**1.4**	0.8	ug/L	23-Oct-13	
Trichloro 1,1,2-, trifluoro 1,2,2-, ethane	76-13-1	BD	4.0	ug/L	23-Oct-13	
Trichlorofluoromethane	75-69-4	BD	4.0	ug/L	23-Oct-13	
Trichloromethane	67-66-3	BD	2.0	ug/L	23-Oct-13	
Trichloropropane, 1,2,3-	96-18-4	BD	2.0	ug/L	23-Oct-13	
Trimethylbenzene, 1,2,4-	95-63-6	BD	2.0	ug/L	23-Oct-13	
Trimethylbenzene, 1,3,5-	108-67-8	BD	2.0	ug/L	23-Oct-13	
Vinyl chloride	75-01-4	BD	0.8	ug/L	23-Oct-13	
Xylenes, m & p-	108-38-3,106-42-3	BD	4.0	ug/L	23-Oct-13	
Xylenes, o-	95-47-6	BD	2.0	ug/L	23-Oct-13	

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Sovereign Consulting, Inc.	Project: Frank Bean Road - Laconia, NH	
7 Hills Avenue	Project Number: NH011	**Reported:**
Concord NH, 03301	Project Manager: Mr. Mark Henderson	29-Oct-13 14:41

SB-120/MW
1310068-04 (Water)

Sampled: 16-Oct-13

Polycyclic Aromatic Hydrocarbons

Analyte	CAS Number	Result	Reporting Limit	Units	Analyzed	Method	Notes
Acenaphthene	83-32-9	BD	0.51	ug/L	27-Oct-13	8270C	
Acenaphthylene	208-96-8	BD	0.51	ug/L	27-Oct-13	8270C	
Anthracene	120-12-7	BD	0.51	ug/L	27-Oct-13	8270C	
Benzo(a)anthracene	56-55-3	**0.15**	0.10	ug/L	27-Oct-13	8270C	
Benzo(a)pyrene	50-32-8	BD	0.40	ug/L	27-Oct-13	8270C	
Benzo(b)fluoranthene	205-99-2	BD	0.51	ug/L	27-Oct-13	8270C	
Benzo(g,h,i)perylene	191-24-2	BD	0.51	ug/L	27-Oct-13	8270C	
Benzo(k)fluoranthene	207-08-9	BD	0.61	ug/L	27-Oct-13	8270C	
Chrysene	218-01-9	BD	0.51	ug/L	27-Oct-13	8270C	
Dibenz (a,h) anthracene	53-70-3	BD	0.10	ug/L	27-Oct-13	8270C	LCS
Fluoranthene	206-44-0	BD	0.51	ug/L	27-Oct-13	8270C	
Fluorene	86-73-7	BD	0.51	ug/L	27-Oct-13	8270C	
Indeno(1,2,3-cd)pyrene	193-39-5	BD	0.51	ug/L	27-Oct-13	8270C	
Methylnaphthalene, 1-	90-12-0	BD	0.51	ug/L	27-Oct-13	8270C	
Methylnaphthalene, 2-	91-57-6	BD	0.51	ug/L	27-Oct-13	8270C	
Naphthalene	91-20-3	BD	0.51	ug/L	27-Oct-13	8270C	
Phenanthrene	85-01-8	BD	0.51	ug/L	27-Oct-13	8270C	
Pyrene	129-00-0	BD	0.51	ug/L	27-Oct-13	8270C	

Dissolved Metals by ICPMS

Analyte	CAS Number	Result	Reporting Limit	Units	Analyzed	Method	Notes
Antimony	7440-36-0	BD	2	ug/L	21-Oct-13	200.8	
Arsenic	7440-38-2	BD	2	ug/L	24-Oct-13	200.8	
Beryllium	7440-41-7	BD	2	ug/L	21-Oct-13	200.8	
Cadmium	7440-43-9	BD	2	ug/L	24-Oct-13	200.8	
Chromium	7440-47-3	BD	2	ug/L	23-Oct-13	200.8	CCV
Copper	7440-50-8	BD	2	ug/L	23-Oct-13	200.8	
Lead	7439-92-1	BD	2	ug/L	23-Oct-13	200.8	
Mercury	7439-97-6	BD	0.4	ug/L	21-Oct-13	200.8	
Nickel	7440-02-0	**10**	2	ug/L	23-Oct-13	200.8	
Selenium	7782-49-2	BD	2	ug/L	21-Oct-13	200.8	
Silver	7440-22-4	BD	2	ug/L	23-Oct-13	200.8	
Thallium	7440-28-0	BD	2	ug/L	21-Oct-13	200.8	
Zinc	7440-66-6	**42**	2	ug/L	24-Oct-13	200.8	

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Sovereign Consulting, Inc.	Project: Frank Bean Road - Laconia, NH	
7 Hills Avenue	Project Number: NH011	**Reported:**
Concord NH, 03301	Project Manager: Mr. Mark Henderson	29-Oct-13 14:41

SB-119/MW
1310068-05 (Water)

Sampled: 16-Oct-13

Volatile Organic Compounds by EPA 8260B

Analyte	CAS Number	Result	Reporting Limit	Units	Analyzed	Notes
Acetone	67-64-1	BD	50	ug/L	23-Oct-13	
Benzene	71-43-2	BD	0.8	ug/L	23-Oct-13	
Bromobenzene	108-86-1	BD	2.0	ug/L	23-Oct-13	
Bromochloromethane	74-97-5	BD	2.0	ug/L	23-Oct-13	
Bromodichloromethane	75-27-4	BD	2.0	ug/L	23-Oct-13	
Bromoform	75-25-2	BD	2.0	ug/L	23-Oct-13	
Bromomethane	74-83-9	BD	2.0	ug/L	23-Oct-13	
Butylbenzene, n-	104-51-8	BD	2.0	ug/L	23-Oct-13	
Butylbenzene, sec-	135-98-8	BD	2.0	ug/L	23-Oct-13	
Butylbenzene, tert-	98-06-6	BD	2.0	ug/L	23-Oct-13	
Carbon disulfide	75-15-0	BD	8.0	ug/L	23-Oct-13	
Carbon Tetrachloride	56-23-5	BD	2.0	ug/L	23-Oct-13	
Chloroethane	75-00-3	BD	2.0	ug/L	23-Oct-13	
Chloromethane	74-87-3	BD	4.0	ug/L	23-Oct-13	
Chlorotoluene, 2	95-49-8	BD	2.0	ug/L	23-Oct-13	
Chlorotoluene, 4	106-43-4	BD	2.0	ug/L	23-Oct-13	
Dibromochloromethane	124-48-1	BD	2.0	ug/L	23-Oct-13	
Dibromochloropropane	96-12-8	BD	4.0	ug/L	23-Oct-13	
Dibromomethane	74-95-3	BD	2.0	ug/L	23-Oct-13	
Dichlorobenzene, 1,2-	95-50-1	BD	2.0	ug/L	23-Oct-13	
Dichlorobenzene, 1,3-	541-73-1	BD	2.0	ug/L	23-Oct-13	
Dichlorobenzene, 1,4-	106-46-7	BD	2.0	ug/L	23-Oct-13	
Dichlorodifluoromethane	75-71-8	BD	4.0	ug/L	23-Oct-13	
Dichloroethane, 1,1-	75-34-3	BD	2.0	ug/L	23-Oct-13	
Dichloroethane, 1,2-	107-06-2	BD	2.0	ug/L	23-Oct-13	
Dichloroethylene, 1,1-	75-35-4	BD	2.0	ug/L	23-Oct-13	
Dichloroethylene, cis-1,2-	156-59-2	BD	2.0	ug/L	23-Oct-13	
Dichloroethylene, trans-1,2-	156-60-5	BD	2.0	ug/L	23-Oct-13	
Dichloromethane	75-09-2	BD	4.0	ug/L	23-Oct-13	
Dichloropropane, 1,2-	78-87-5	BD	2.0	ug/L	23-Oct-13	
Dichloropropane, 1,3-	142-28-9	BD	2.0	ug/L	23-Oct-13	
Dichloropropane, 2,2-	594-20-7	BD	6.0	ug/L	23-Oct-13	
Dichloropropene, 1,1-	563-58-6	BD	2.0	ug/L	23-Oct-13	
Dichloropropene, cis-1,3-	10061-01-5	BD	2.0	ug/L	23-Oct-13	
Dichloropropene, trans-1,3-	10061-02-6	BD	2.0	ug/L	23-Oct-13	
Diethyl Ether	60-29-7	BD	50	ug/L	23-Oct-13	
Diisopropyl Ether	108-20-3	BD	2.0	ug/L	23-Oct-13	
Ethylbenzene	100-41-4	BD	2.0	ug/L	23-Oct-13	
Ethylene dibromide	106-93-4	BD	2.0	ug/L	23-Oct-13	
Ethyl tert-Butyl Ether	637-92-3	BD	2.0	ug/L	23-Oct-13	

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Sovereign Consulting, Inc.	Project: Frank Bean Road - Laconia, NH	
7 Hills Avenue	Project Number: NH011	**Reported:**
Concord NH, 03301	Project Manager: Mr. Mark Henderson	29-Oct-13 14:41

SB-119/MW
1310068-05 (Water)

Sampled: 16-Oct-13

Volatile Organic Compounds by EPA 8260B

Analyte	CAS Number	Result	Reporting Limit	Units	Analyzed	Notes
Hexachlorobutadiene	87-68-3	BD	4.0	ug/L	23-Oct-13	
Isopropylbenzene	98-82-8	BD	2.0	ug/L	23-Oct-13	
Isopropyltoluene, p-	99-87-6	BD	2.0	ug/L	23-Oct-13	
Methyl Butyl Ketone (2-Hexanone)	591-78-6	BD	50	ug/L	23-Oct-13	
Methyl Ethyl Ketone (2-Butanone)	78-93-3	BD	50	ug/L	23-Oct-13	
Methyl Isobutyl Ketone	108-10-1	BD	50	ug/L	23-Oct-13	
Methyl-tert-Butyl Ether	1634-04-4	BD	0.8	ug/L	23-Oct-13	
Monochlorobenzene	108-90-7	BD	2.0	ug/L	23-Oct-13	
Naphthalene	91-20-3	BD	4.0	ug/L	23-Oct-13	
n-Propylbenzene	103-65-1	BD	2.0	ug/L	23-Oct-13	
Styrene	100-42-5	BD	2.0	ug/L	23-Oct-13	
tert-Amyl Methyl Ether	994-05-8	BD	4.0	ug/L	23-Oct-13	
tert-Butyl alcohol	75-65-0	BD	20	ug/L	23-Oct-13	
Tetrachloroethane, 1,1,1,2-	630-20-6	BD	2.0	ug/L	23-Oct-13	
Tetrachloroethane, 1,1,2,2-	79-34-5	BD	2.0	ug/L	23-Oct-13	
Tetrachloroethylene	127-18-4	**2.3**	2.0	ug/L	23-Oct-13	
Tetrahydrofuran	109-99-9	BD	50	ug/L	23-Oct-13	
Toluene	108-88-3	BD	2.0	ug/L	23-Oct-13	
Trichlorobenzene, 1,2,3-	87-61-6	BD	4.0	ug/L	23-Oct-13	
Trichlorobenzene, 1,2,4-	120-82-1	BD	4.0	ug/L	23-Oct-13	
Trichlorobenzene, 1,3,5-	108-70-3	BD	4.0	ug/L	23-Oct-13	
Trichloroethane, 1,1,1-	71-55-6	BD	2.0	ug/L	23-Oct-13	
Trichloroethane, 1,1,2-	79-00-5	BD	2.0	ug/L	23-Oct-13	
Trichloroethylene	79-01-6	**13**	0.8	ug/L	23-Oct-13	
Trichloro 1,1,2-, trifluoro 1,2,2-, ethane	76-13-1	BD	4.0	ug/L	23-Oct-13	
Trichlorofluoromethane	75-69-4	BD	4.0	ug/L	23-Oct-13	
Trichloromethane	67-66-3	BD	2.0	ug/L	23-Oct-13	
Trichloropropane, 1,2,3-	96-18-4	BD	2.0	ug/L	23-Oct-13	
Trimethylbenzene, 1,2,4-	95-63-6	BD	2.0	ug/L	23-Oct-13	
Trimethylbenzene, 1,3,5-	108-67-8	BD	2.0	ug/L	23-Oct-13	
Vinyl chloride	75-01-4	BD	0.8	ug/L	23-Oct-13	
Xylenes, m & p-	108-38-3,106-42-3	BD	4.0	ug/L	23-Oct-13	
Xylenes, o-	95-47-6	BD	2.0	ug/L	23-Oct-13	

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Sovereign Consulting, Inc.	Project: Frank Bean Road - Laconia, NH	
7 Hills Avenue	Project Number: NH011	**Reported:**
Concord NH, 03301	Project Manager: Mr. Mark Henderson	29-Oct-13 14:41

SB-119/MW
1310068-05 (Water)

Sampled: 16-Oct-13

Polycyclic Aromatic Hydrocarbons

Analyte	CAS Number	Result	Reporting Limit	Units	Analyzed	Method	Notes
Acenaphthene	83-32-9	BD	0.50	ug/L	27-Oct-13	8270C	
Acenaphthylene	208-96-8	BD	0.50	ug/L	27-Oct-13	8270C	
Anthracene	120-12-7	BD	0.50	ug/L	27-Oct-13	8270C	
Benzo(a)anthracene	56-55-3	**0.29**	0.10	ug/L	27-Oct-13	8270C	
Benzo(a)pyrene	50-32-8	BD	0.40	ug/L	27-Oct-13	8270C	
Benzo(b)fluoranthene	205-99-2	BD	0.50	ug/L	27-Oct-13	8270C	
Benzo(g,h,i)perylene	191-24-2	BD	0.50	ug/L	27-Oct-13	8270C	
Benzo(k)fluoranthene	207-08-9	BD	0.60	ug/L	27-Oct-13	8270C	
Chrysene	218-01-9	BD	0.50	ug/L	27-Oct-13	8270C	
Dibenz (a,h) anthracene	53-70-3	BD	0.10	ug/L	27-Oct-13	8270C	LCS
Fluoranthene	206-44-0	BD	0.50	ug/L	27-Oct-13	8270C	
Fluorene	86-73-7	BD	0.50	ug/L	27-Oct-13	8270C	
Indeno(1,2,3-cd)pyrene	193-39-5	BD	0.50	ug/L	27-Oct-13	8270C	
Methylnaphthalene, 1-	90-12-0	BD	0.50	ug/L	27-Oct-13	8270C	
Methylnaphthalene, 2-	91-57-6	BD	0.50	ug/L	27-Oct-13	8270C	
Naphthalene	91-20-3	BD	0.50	ug/L	27-Oct-13	8270C	
Phenanthrene	85-01-8	BD	0.50	ug/L	27-Oct-13	8270C	
Pyrene	129-00-0	BD	0.50	ug/L	27-Oct-13	8270C	

Dissolved Metals by ICPMS

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Analyte	CAS Number	Result	Reporting Limit	Units	Analyzed	Method	Notes
Antimony	7440-36-0	BD	2	ug/L	21-Oct-13	200.8	
Arsenic	7440-38-2	BD	2	ug/L	24-Oct-13	200.8	
Beryllium	7440-41-7	BD	2	ug/L	21-Oct-13	200.8	
Cadmium	7440-43-9	BD	2	ug/L	24-Oct-13	200.8	
Chromium	7440-47-3	**7**	2	ug/L	23-Oct-13	200.8	
Copper	7440-50-8	**7**	2	ug/L	23-Oct-13	200.8	
Lead	7439-92-1	**5**	2	ug/L	23-Oct-13	200.8	
Mercury	7439-97-6	BD	0.4	ug/L	21-Oct-13	200.8	
Nickel	7440-02-0	**9**	2	ug/L	23-Oct-13	200.8	
Selenium	7782-49-2	**24**	2	ug/L	21-Oct-13	200.8	
Silver	7440-22-4	BD	2	ug/L	23-Oct-13	200.8	
Thallium	7440-28-0	BD	2	ug/L	21-Oct-13	200.8	
Zinc	7440-66-6	**38**	2	ug/L	24-Oct-13	200.8	

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Sovereign Consulting, Inc.	Project: Frank Bean Road - Laconia, NH	
7 Hills Avenue	Project Number: NH011	**Reported:**
Concord NH, 03301	Project Manager: Mr. Mark Henderson	29-Oct-13 14:41

SB-109/MW
1310068-06 (Water)

Sampled: 16-Oct-13

Volatile Organic Compounds by EPA 8260B

Analyte	CAS Number	Result	Reporting Limit	Units	Analyzed	Notes
Acetone	67-64-1	BD	50	ug/L	23-Oct-13	
Benzene	71-43-2	BD	0.8	ug/L	23-Oct-13	
Bromobenzene	108-86-1	BD	2.0	ug/L	23-Oct-13	
Bromochloromethane	74-97-5	BD	2.0	ug/L	23-Oct-13	
Bromodichloromethane	75-27-4	BD	2.0	ug/L	23-Oct-13	
Bromoform	75-25-2	BD	2.0	ug/L	23-Oct-13	
Bromomethane	74-83-9	BD	2.0	ug/L	23-Oct-13	
Butylbenzene, n-	104-51-8	BD	2.0	ug/L	23-Oct-13	
Butylbenzene, sec-	135-98-8	BD	2.0	ug/L	23-Oct-13	
Butylbenzene, tert-	98-06-6	BD	2.0	ug/L	23-Oct-13	
Carbon disulfide	75-15-0	BD	8.0	ug/L	23-Oct-13	
Carbon Tetrachloride	56-23-5	BD	2.0	ug/L	23-Oct-13	
Chloroethane	75-00-3	BD	2.0	ug/L	23-Oct-13	
Chloromethane	74-87-3	BD	4.0	ug/L	23-Oct-13	
Chlorotoluene, 2	95-49-8	BD	2.0	ug/L	23-Oct-13	
Chlorotoluene, 4	106-43-4	BD	2.0	ug/L	23-Oct-13	
Dibromochloromethane	124-48-1	BD	2.0	ug/L	23-Oct-13	
Dibromochloropropane	96-12-8	BD	4.0	ug/L	23-Oct-13	
Dibromomethane	74-95-3	BD	2.0	ug/L	23-Oct-13	
Dichlorobenzene, 1,2-	95-50-1	BD	2.0	ug/L	23-Oct-13	
Dichlorobenzene, 1,3-	541-73-1	BD	2.0	ug/L	23-Oct-13	
Dichlorobenzene, 1,4-	106-46-7	BD	2.0	ug/L	23-Oct-13	
Dichlorodifluoromethane	75-71-8	BD	4.0	ug/L	23-Oct-13	
Dichloroethane, 1,1-	75-34-3	BD	2.0	ug/L	23-Oct-13	
Dichloroethane, 1,2-	107-06-2	BD	2.0	ug/L	23-Oct-13	
Dichloroethylene, 1,1-	75-35-4	BD	2.0	ug/L	23-Oct-13	
Dichloroethylene, cis-1,2-	156-59-2	BD	2.0	ug/L	23-Oct-13	
Dichloroethylene, trans-1,2-	156-60-5	BD	2.0	ug/L	23-Oct-13	
Dichloromethane	75-09-2	BD	4.0	ug/L	23-Oct-13	
Dichloropropane, 1,2-	78-87-5	BD	2.0	ug/L	23-Oct-13	
Dichloropropane, 1,3-	142-28-9	BD	2.0	ug/L	23-Oct-13	
Dichloropropane, 2,2-	594-20-7	BD	6.0	ug/L	23-Oct-13	
Dichloropropene, 1,1-	563-58-6	BD	2.0	ug/L	23-Oct-13	
Dichloropropene, cis-1,3-	10061-01-5	BD	2.0	ug/L	23-Oct-13	
Dichloropropene, trans-1,3-	10061-02-6	BD	2.0	ug/L	23-Oct-13	
Diethyl Ether	60-29-7	BD	50	ug/L	23-Oct-13	
Diisopropyl Ether	108-20-3	BD	2.0	ug/L	23-Oct-13	
Ethylbenzene	100-41-4	BD	2.0	ug/L	23-Oct-13	
Ethylene dibromide	106-93-4	BD	2.0	ug/L	23-Oct-13	
Ethyl tert-Butyl Ether	637-92-3	BD	2.0	ug/L	23-Oct-13	

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Laboratory Services
153 West Road
Canterbury, N.H. 03224
Phone - 603-783-9097
www.Aquarianlabs.com

Sovereign Consulting, Inc.	Project: Frank Bean Road - Laconia, NH	
7 Hills Avenue	Project Number: NH011	**Reported:**
Concord NH, 03301	Project Manager: Mr. Mark Henderson	29-Oct-13 14:41

SB-109/MW
1310068-06 (Water)

Sampled: 16-Oct-13

Volatile Organic Compounds by EPA 8260B

Analyte	CAS Number	Result	Reporting Limit	Units	Analyzed	Notes
Hexachlorobutadiene	87-68-3	BD	4.0	ug/L	23-Oct-13	
Isopropylbenzene	98-82-8	BD	2.0	ug/L	23-Oct-13	
Isopropyltoluene, p-	99-87-6	BD	2.0	ug/L	23-Oct-13	
Methyl Butyl Ketone (2-Hexanone)	591-78-6	BD	50	ug/L	23-Oct-13	
Methyl Ethyl Ketone (2-Butanone)	78-93-3	BD	50	ug/L	23-Oct-13	
Methyl Isobutyl Ketone	108-10-1	BD	50	ug/L	23-Oct-13	
Methyl-tert-Butyl Ether	1634-04-4	BD	0.8	ug/L	23-Oct-13	
Monochlorobenzene	108-90-7	BD	2.0	ug/L	23-Oct-13	
Naphthalene	91-20-3	BD	4.0	ug/L	23-Oct-13	
n-Propylbenzene	103-65-1	BD	2.0	ug/L	23-Oct-13	
Styrene	100-42-5	BD	2.0	ug/L	23-Oct-13	
tert-Amyl Methyl Ether	994-05-8	BD	4.0	ug/L	23-Oct-13	
tert-Butyl alcohol	75-65-0	BD	20	ug/L	23-Oct-13	
Tetrachloroethane, 1,1,1,2-	630-20-6	BD	2.0	ug/L	23-Oct-13	
Tetrachloroethane, 1,1,2,2-	79-34-5	BD	2.0	ug/L	23-Oct-13	
Tetrachloroethylene	127-18-4	BD	2.0	ug/L	23-Oct-13	
Tetrahydrofuran	109-99-9	BD	50	ug/L	23-Oct-13	
Toluene	108-88-3	BD	2.0	ug/L	23-Oct-13	
Trichlorobenzene, 1,2,3-	87-61-6	BD	4.0	ug/L	23-Oct-13	
Trichlorobenzene, 1,2,4-	120-82-1	BD	4.0	ug/L	23-Oct-13	
Trichlorobenzene, 1,3,5-	108-70-3	BD	4.0	ug/L	23-Oct-13	
Trichloroethane, 1,1,1-	71-55-6	BD	2.0	ug/L	23-Oct-13	
Trichloroethane, 1,1,2-	79-00-5	BD	2.0	ug/L	23-Oct-13	
Trichloroethylene	79-01-6	BD	0.8	ug/L	23-Oct-13	
Trichloro 1,1,2-, trifluoro 1,2,2-, ethane	76-13-1	BD	4.0	ug/L	23-Oct-13	
Trichlorofluoromethane	75-69-4	BD	4.0	ug/L	23-Oct-13	
Trichloromethane	67-66-3	BD	2.0	ug/L	23-Oct-13	
Trichloropropane, 1,2,3-	96-18-4	BD	2.0	ug/L	23-Oct-13	
Trimethylbenzene, 1,2,4-	95-63-6	BD	2.0	ug/L	23-Oct-13	
Trimethylbenzene, 1,3,5-	108-67-8	BD	2.0	ug/L	23-Oct-13	
Vinyl chloride	75-01-4	BD	0.8	ug/L	23-Oct-13	
Xylenes, m & p-	108-38-3,106-42-3	BD	4.0	ug/L	23-Oct-13	
Xylenes, o-	95-47-6	BD	2.0	ug/L	23-Oct-13	

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Sovereign Consulting, Inc.	Project: Frank Bean Road - Laconia, NH	
7 Hills Avenue	Project Number: NH011	**Reported:**
Concord NH, 03301	Project Manager: Mr. Mark Henderson	29-Oct-13 14:41

SB-109/MW
1310068-06 (Water)

Sampled: 16-Oct-13

Polycyclic Aromatic Hydrocarbons

Analyte	CAS Number	Result	Reporting Limit	Units	Analyzed	Method	Notes
Acenaphthene	83-32-9	BD	0.50	ug/L	27-Oct-13	8270C	
Acenaphthylene	208-96-8	BD	0.50	ug/L	27-Oct-13	8270C	
Anthracene	120-12-7	BD	0.50	ug/L	27-Oct-13	8270C	
Benzo(a)anthracene	56-55-3	**0.20**	0.10	ug/L	27-Oct-13	8270C	
Benzo(a)pyrene	50-32-8	BD	0.40	ug/L	27-Oct-13	8270C	
Benzo(b)fluoranthene	205-99-2	BD	0.50	ug/L	27-Oct-13	8270C	
Benzo(g,h,i)perylene	191-24-2	BD	0.50	ug/L	27-Oct-13	8270C	
Benzo(k)fluoranthene	207-08-9	BD	0.60	ug/L	27-Oct-13	8270C	
Chrysene	218-01-9	BD	0.50	ug/L	27-Oct-13	8270C	
Dibenz (a,h) anthracene	53-70-3	BD	0.10	ug/L	27-Oct-13	8270C	LCS
Fluoranthene	206-44-0	BD	0.50	ug/L	27-Oct-13	8270C	
Fluorene	86-73-7	BD	0.50	ug/L	27-Oct-13	8270C	
Indeno(1,2,3-cd)pyrene	193-39-5	BD	0.50	ug/L	27-Oct-13	8270C	
Methylnaphthalene, 1-	90-12-0	BD	0.50	ug/L	27-Oct-13	8270C	
Methylnaphthalene, 2-	91-57-6	BD	0.50	ug/L	27-Oct-13	8270C	
Naphthalene	91-20-3	BD	0.50	ug/L	27-Oct-13	8270C	
Phenanthrene	85-01-8	BD	0.50	ug/L	27-Oct-13	8270C	
Pyrene	129-00-0	BD	0.50	ug/L	27-Oct-13	8270C	

Dissolved Metals by ICPMS

Analyte	CAS Number	Result	Reporting Limit	Units	Analyzed	Method	Notes
Antimony	7440-36-0	BD	2	ug/L	21-Oct-13	200.8	
Arsenic	7440-38-2	BD	2	ug/L	24-Oct-13	200.8	
Beryllium	7440-41-7	BD	2	ug/L	21-Oct-13	200.8	
Cadmium	7440-43-9	BD	2	ug/L	24-Oct-13	200.8	
Chromium	7440-47-3	BD	2	ug/L	23-Oct-13	200.8	
Copper	7440-50-8	**4**	2	ug/L	23-Oct-13	200.8	
Lead	7439-92-1	BD	2	ug/L	23-Oct-13	200.8	
Mercury	7439-97-6	BD	0.4	ug/L	21-Oct-13	200.8	
Nickel	7440-02-0	**8**	2	ug/L	23-Oct-13	200.8	
Selenium	7782-49-2	**2**	2	ug/L	21-Oct-13	200.8	
Silver	7440-22-4	BD	2	ug/L	23-Oct-13	200.8	
Thallium	7440-28-0	BD	2	ug/L	21-Oct-13	200.8	
Zinc	7440-66-6	**42**	2	ug/L	24-Oct-13	200.8	

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Sovereign Consulting, Inc.	Project:	Frank Bean Road - Laconia, NH	
7 Hills Avenue	Project Number:	NH011	**Reported:**
Concord NH, 03301	Project Manager:	Mr. Mark Henderson	29-Oct-13 14:41

Notes and Definitions

Spk	Spike sample exceeds limits benzo(g,h,i)perylene: 35%, dibenz(a,h)anthracene: 26%
sed	Sediment present in sample
LCS	Laboratory Control Sample exceeds limits dibenz(a,h)anthracene: 37%
ISTD	Internal standard exceeds limits.
Dup	Duplicate sample exceeds limits.
CCV	Calibration Check exceeds limits Cr 89%.

BD	Analyte result below the laboratory reporting limit
NR	Not Reported

Soil sample results reported on a dry weight basis.

The reporting limit is the lowest level at which reliable quantitation has been demonstrated.

Analytes in **bold** are values reported above the reporting limit.

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Laboratory Services

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E-Mail: aquarianlab@comcast.net

Turnaround Requirements (check one)

RUSH SAMPLES NEED PRIOR APPROVAL

____ Same Day Turnaround (150% upcharge)
____ One Day Turnaround (100% upcharge)
____ Two Day Turnaround (50% upcharge)
____ Three Day Turnaround (25% upcharge)
X Normal turnaround

Project Information

Project #:	NH011	Project Manager:	Mark Henderson
Project Name:	Frank Bean Rd.	Report to:	Sovereign Consulting
Town/Site:	Laconia, NH	Invoice to:	Sovereign Consulting
Sampler:	Dylan Bush	Phone:	603-856-8644
Company:	Sovereign Consulting	E-Mail:	mhenderson@sovcon.com
BID Reference:			

Sample Information / VOC's-SVOC's / TPH / Metals / TCLP / Other (list)

NELAC Qc Y___ N___

AAI Work Order #	Sample ID	Sample Collection Time	Sample Matrix	Number of Containers	EPA 8260 w / oxygenates	BTEX / MTBE	BTEX+MTBE+Naphthalene	Chlorinated only	EPA 524.2 Drinking Water	EDB	1,4 Dioxane	EPA 8270 A-B/N	EPA 8270 PAH	EPA 8015M Gasoline	EPA 8100M Fuel Oil	Fingerprint	RCRA 8	Field Filtered: 13 PP METALS	Lab Filtered:	Total:	Zero Headspace Extraction (ZHE)	TCLP Pesticides	TCLP Herbicides	TCLP Metals	PCB	EPA SW846-7 Reactivity	EPA 1010 Flashpoint / Ignitab	EPA 150.1 / 9045 pH	Alkalinity	Nitrate	Sulfate	Chloride	NH DES Full LIST
1310068-01	SB-108/MW	10.16.13/8:50	GW	4									X					X															X
-02	SB-103/MW	10:08											X					X															X
-03	SB-110/MW	11:45											X					X															X
-04	SB-120/MW	13:12											X					X															X
-05	SB-119/MW	14:30											X					X															X
-06	SB-109/MW	15:40											X					X															X

Relinquished by: Dylan Bush	Date: 10.16.13 Time: 16:45	Received by: Sovcon Refrigerator	Notes: * Samples kept on ice during transport
Relinquished by: Refridgerator	Date: 10-17-13 Time: 8:45	Received by: [signature]	
Relinquished by:	Date: Time:	Received by:	Temperature 4 °C
			Is this N.H. "ODD Fund" related? Y____ N ✓

Aquarian Analytical will subcontract those tests we do not perform with your prior approval

Please keep samples on ice from the time of collection

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31 October 2013

Mr. Mark Henderson
Sovereign Consulting, Inc.
7 Hills Avenue
Concord, NH 03301

RE: Frank Bean Road - Laconia, NH

Dear Mr. Henderson:

Enclosed are the results of analyses for the following samples, which were received at 3 c.

Laboratory ID	Sample ID	Sample matrix	Date sampled	Date received
1310081-01	**SB-118/MW**	Water	17-Oct-13 11:00	21-Oct-13 08:45
1310081-02	**SB-107/MW**	Water	17-Oct-13 11:56	21-Oct-13 08:45
1310081-03	**SB-105/MW**	Water	17-Oct-13 13:12	21-Oct-13 08:45
1310081-04	**SB-101/MW**	Water	17-Oct-13 13:45	21-Oct-13 08:45
1310081-05	**SB-104/MW**	Water	17-Oct-13 14:54	21-Oct-13 08:45

The results in this report relate only to the submitted samples. Please refer to our website listed above for a list of accredited parameters. If you have any questions concerning this report, please feel free to contact me.

Alan G. Naber

Laboratory Director

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Sovereign Consulting, Inc.	Project: Frank Bean Road - Laconia, NH	
7 Hills Avenue	Project Number: NH011	**Reported:**
Concord NH, 03301	Project Manager: Mr. Mark Henderson	31-Oct-13 16:46

SB-118/MW
1310081-01 (Water)

Sampled: 17-Oct-13

Volatile Organic Compounds by EPA 8260B

Analyte	CAS Number	Result	Reporting Limit	Units	Analyzed	Notes
Acetone	67-64-1	BD	50	ug/L	24-Oct-13	
Benzene	71-43-2	BD	0.8	ug/L	24-Oct-13	
Bromobenzene	108-86-1	BD	2.0	ug/L	24-Oct-13	
Bromochloromethane	74-97-5	BD	2.0	ug/L	24-Oct-13	
Bromodichloromethane	75-27-4	BD	2.0	ug/L	24-Oct-13	
Bromoform	75-25-2	BD	2.0	ug/L	24-Oct-13	
Bromomethane	74-83-9	BD	2.0	ug/L	24-Oct-13	
Butylbenzene, n-	104-51-8	BD	2.0	ug/L	24-Oct-13	
Butylbenzene, sec-	135-98-8	BD	2.0	ug/L	24-Oct-13	
Butylbenzene, tert-	98-06-6	BD	2.0	ug/L	24-Oct-13	
Carbon disulfide	75-15-0	BD	8.0	ug/L	24-Oct-13	
Carbon Tetrachloride	56-23-5	BD	2.0	ug/L	24-Oct-13	
Chloroethane	75-00-3	BD	2.0	ug/L	24-Oct-13	
Chloromethane	74-87-3	BD	4.0	ug/L	24-Oct-13	
Chlorotoluene, 2	95-49-8	BD	2.0	ug/L	24-Oct-13	
Chlorotoluene, 4	106-43-4	BD	2.0	ug/L	24-Oct-13	
Dibromochloromethane	124-48-1	BD	2.0	ug/L	24-Oct-13	
Dibromochloropropane	96-12-8	BD	4.0	ug/L	24-Oct-13	
Dibromomethane	74-95-3	BD	2.0	ug/L	24-Oct-13	
Dichlorobenzene, 1,2-	95-50-1	BD	2.0	ug/L	24-Oct-13	
Dichlorobenzene, 1,3-	541-73-1	BD	2.0	ug/L	24-Oct-13	
Dichlorobenzene, 1,4-	106-46-7	BD	2.0	ug/L	24-Oct-13	
Dichlorodifluoromethane	75-71-8	BD	4.0	ug/L	24-Oct-13	
Dichloroethane, 1,1-	75-34-3	BD	2.0	ug/L	24-Oct-13	
Dichloroethane, 1,2-	107-06-2	BD	2.0	ug/L	24-Oct-13	
Dichloroethylene, 1,1-	75-35-4	BD	2.0	ug/L	24-Oct-13	
Dichloroethylene, cis-1,2-	156-59-2	BD	2.0	ug/L	24-Oct-13	
Dichloroethylene, trans-1,2-	156-60-5	BD	2.0	ug/L	24-Oct-13	
Dichloromethane	75-09-2	BD	4.0	ug/L	24-Oct-13	
Dichloropropane, 1,2-	78-87-5	BD	2.0	ug/L	24-Oct-13	
Dichloropropane, 1,3-	142-28-9	BD	2.0	ug/L	24-Oct-13	
Dichloropropane, 2,2-	594-20-7	BD	6.0	ug/L	24-Oct-13	
Dichloropropene, 1,1-	563-58-6	BD	2.0	ug/L	24-Oct-13	
Dichloropropene, cis-1,3-	10061-01-5	BD	2.0	ug/L	24-Oct-13	
Dichloropropene, trans-1,3-	10061-02-6	BD	2.0	ug/L	24-Oct-13	
Diethyl Ether	60-29-7	BD	50	ug/L	24-Oct-13	
Diisopropyl Ether	108-20-3	BD	2.0	ug/L	24-Oct-13	
Ethylbenzene	100-41-4	BD	2.0	ug/L	24-Oct-13	
Ethylene dibromide	106-93-4	BD	2.0	ug/L	24-Oct-13	
Ethyl tert-Butyl Ether	637-92-3	BD	2.0	ug/L	24-Oct-13	

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7 Hills Avenue	Project Number: NH011	**Reported:**
Concord NH, 03301	Project Manager: Mr. Mark Henderson	31-Oct-13 16:46

SB-118/MW
1310081-01 (Water)

Sampled: 17-Oct-13

Volatile Organic Compounds by EPA 8260B

Analyte	CAS Number	Result	Reporting Limit	Units	Analyzed	Notes
Hexachlorobutadiene	87-68-3	BD	4.0	ug/L	24-Oct-13	
Isopropylbenzene	98-82-8	BD	2.0	ug/L	24-Oct-13	
Isopropyltoluene, p-	99-87-6	BD	2.0	ug/L	24-Oct-13	
Methyl Butyl Ketone (2-Hexanone)	591-78-6	BD	50	ug/L	24-Oct-13	
Methyl Ethyl Ketone (2-Butanone)	78-93-3	BD	50	ug/L	24-Oct-13	
Methyl Isobutyl Ketone	108-10-1	BD	50	ug/L	24-Oct-13	
Methyl-tert-Butyl Ether	1634-04-4	BD	0.8	ug/L	24-Oct-13	
Monochlorobenzene	108-90-7	BD	2.0	ug/L	24-Oct-13	
Naphthalene	91-20-3	BD	4.0	ug/L	24-Oct-13	
n-Propylbenzene	103-65-1	BD	2.0	ug/L	24-Oct-13	
Styrene	100-42-5	BD	2.0	ug/L	24-Oct-13	
tert-Amyl Methyl Ether	994-05-8	BD	4.0	ug/L	24-Oct-13	
tert-Butyl alcohol	75-65-0	BD	20	ug/L	24-Oct-13	
Tetrachloroethane, 1,1,1,2-	630-20-6	BD	2.0	ug/L	24-Oct-13	
Tetrachloroethane, 1,1,2,2-	79-34-5	BD	2.0	ug/L	24-Oct-13	
Tetrachloroethylene	127-18-4	BD	2.0	ug/L	24-Oct-13	
Tetrahydrofuran	109-99-9	BD	50	ug/L	24-Oct-13	
Toluene	108-88-3	BD	2.0	ug/L	24-Oct-13	
Trichlorobenzene, 1,2,3-	87-61-6	BD	4.0	ug/L	24-Oct-13	
Trichlorobenzene, 1,2,4-	120-82-1	BD	4.0	ug/L	24-Oct-13	
Trichlorobenzene, 1,3,5-	108-70-3	BD	4.0	ug/L	24-Oct-13	
Trichloroethane, 1,1,1-	71-55-6	BD	2.0	ug/L	24-Oct-13	
Trichloroethane, 1,1,2-	79-00-5	BD	2.0	ug/L	24-Oct-13	
Trichloroethylene	79-01-6	BD	0.8	ug/L	24-Oct-13	
Trichloro 1,1,2-, trifluoro 1,2,2-, ethane	76-13-1	BD	4.0	ug/L	24-Oct-13	
Trichlorofluoromethane	75-69-4	BD	4.0	ug/L	24-Oct-13	
Trichloromethane	67-66-3	BD	2.0	ug/L	24-Oct-13	
Trichloropropane, 1,2,3-	96-18-4	BD	2.0	ug/L	24-Oct-13	
Trimethylbenzene, 1,2,4-	95-63-6	BD	2.0	ug/L	24-Oct-13	
Trimethylbenzene, 1,3,5-	108-67-8	BD	2.0	ug/L	24-Oct-13	
Vinyl chloride	75-01-4	BD	0.8	ug/L	24-Oct-13	
Xylenes, m & p-	108-38-3,106-42-3	BD	4.0	ug/L	24-Oct-13	
Xylenes, o-	95-47-6	BD	2.0	ug/L	24-Oct-13	

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SB-118/MW
1310081-01 (Water)

Sampled: 17-Oct-13

Polycyclic Aromatic Hydrocarbons

Analyte	CAS Number	Result	Reporting Limit	Units	Analyzed	Method	Notes
Acenaphthene	83-32-9	BD	0.51	ug/L	30-Oct-13	8270C	
Acenaphthylene	208-96-8	BD	0.51	ug/L	30-Oct-13	8270C	
Anthracene	120-12-7	BD	0.51	ug/L	30-Oct-13	8270C	
Benzo(a)anthracene	56-55-3	**0.41**	0.10	ug/L	30-Oct-13	8270C	
Benzo(a)pyrene	50-32-8	BD	0.31	ug/L	30-Oct-13	8270C	
Benzo(b)fluoranthene	205-99-2	BD	0.51	ug/L	30-Oct-13	8270C	
Benzo(g,h,i)perylene	191-24-2	BD	0.51	ug/L	30-Oct-13	8270C	
Benzo(k)fluoranthene	207-08-9	BD	0.61	ug/L	30-Oct-13	8270C	
Chrysene	218-01-9	**0.52**	0.51	ug/L	30-Oct-13	8270C	
Dibenz (a,h) anthracene	53-70-3	BD	0.20	ug/L	30-Oct-13	8270C	
Fluoranthene	206-44-0	BD	0.51	ug/L	30-Oct-13	8270C	
Fluorene	86-73-7	BD	0.51	ug/L	30-Oct-13	8270C	
Indeno(1,2,3-cd)pyrene	193-39-5	BD	0.51	ug/L	30-Oct-13	8270C	
Methylnaphthalene, 1-	90-12-0	BD	0.51	ug/L	30-Oct-13	8270C	
Methylnaphthalene, 2-	91-57-6	BD	0.51	ug/L	30-Oct-13	8270C	
Naphthalene	91-20-3	BD	0.51	ug/L	30-Oct-13	8270C	
Phenanthrene	85-01-8	BD	0.51	ug/L	30-Oct-13	8270C	
Pyrene	129-00-0	BD	0.51	ug/L	30-Oct-13	8270C	

Dissolved Metals by ICPMS

Analyte	CAS Number	Result	Reporting Limit	Units	Analyzed	Method	Notes
Antimony	7440-36-0	BD	1	ug/L	29-Oct-13	200.8	
Arsenic	7440-38-2	BD	1	ug/L	29-Oct-13	200.8	
Beryllium	7440-41-7	BD	1	ug/L	29-Oct-13	200.8	
Cadmium	7440-43-9	BD	1	ug/L	29-Oct-13	200.8	
Chromium	7440-47-3	**3**	1	ug/L	29-Oct-13	200.8	
Copper	7440-50-8	**5**	1	ug/L	29-Oct-13	200.8	
Lead	7439-92-1	BD	1	ug/L	29-Oct-13	200.8	
Mercury	7439-97-6	BD	0.2	ug/L	29-Oct-13	200.8	
Nickel	7440-02-0	**8**	1	ug/L	29-Oct-13	200.8	
Selenium	7782-49-2	BD	1	ug/L	29-Oct-13	200.8	
Silver	7440-22-4	BD	1	ug/L	29-Oct-13	200.8	
Thallium	7440-28-0	BD	1	ug/L	29-Oct-13	200.8	
Zinc	7440-66-6	**43**	1	ug/L	29-Oct-13	200.8	Spk

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Sovereign Consulting, Inc.	Project: Frank Bean Road - Laconia, NH	
7 Hills Avenue	Project Number: NH011	**Reported:**
Concord NH, 03301	Project Manager: Mr. Mark Henderson	31-Oct-13 16:46

SB-107/MW
1310081-02 (Water)

Sampled: 17-Oct-13

Volatile Organic Compounds by EPA 8260B

Analyte	CAS Number	Result	Reporting Limit	Units	Analyzed	Notes
Acetone	67-64-1	BD	50	ug/L	24-Oct-13	
Benzene	71-43-2	BD	0.8	ug/L	24-Oct-13	
Bromobenzene	108-86-1	BD	2.0	ug/L	24-Oct-13	
Bromochloromethane	74-97-5	BD	2.0	ug/L	24-Oct-13	
Bromodichloromethane	75-27-4	BD	2.0	ug/L	24-Oct-13	
Bromoform	75-25-2	BD	2.0	ug/L	24-Oct-13	
Bromomethane	74-83-9	BD	2.0	ug/L	24-Oct-13	
Butylbenzene, n-	104-51-8	**4.6**	2.0	ug/L	24-Oct-13	
Butylbenzene, sec-	135-98-8	**3.9**	2.0	ug/L	24-Oct-13	
Butylbenzene, tert-	98-06-6	BD	2.0	ug/L	24-Oct-13	
Carbon disulfide	75-15-0	BD	8.0	ug/L	24-Oct-13	
Carbon Tetrachloride	56-23-5	BD	2.0	ug/L	24-Oct-13	
Chloroethane	75-00-3	BD	2.0	ug/L	24-Oct-13	
Chloromethane	74-87-3	BD	4.0	ug/L	24-Oct-13	
Chlorotoluene, 2	95-49-8	BD	2.0	ug/L	24-Oct-13	
Chlorotoluene, 4	106-43-4	BD	2.0	ug/L	24-Oct-13	
Dibromochloromethane	124-48-1	BD	2.0	ug/L	24-Oct-13	
Dibromochloropropane	96-12-8	BD	4.0	ug/L	24-Oct-13	
Dibromomethane	74-95-3	BD	2.0	ug/L	24-Oct-13	
Dichlorobenzene, 1,2-	95-50-1	**21**	2.0	ug/L	24-Oct-13	
Dichlorobenzene, 1,3-	541-73-1	BD	2.0	ug/L	24-Oct-13	
Dichlorobenzene, 1,4-	106-46-7	**3.6**	2.0	ug/L	24-Oct-13	
Dichlorodifluoromethane	75-71-8	BD	4.0	ug/L	24-Oct-13	
Dichloroethane, 1,1-	75-34-3	BD	2.0	ug/L	24-Oct-13	
Dichloroethane, 1,2-	107-06-2	BD	2.0	ug/L	24-Oct-13	
Dichloroethylene, 1,1-	75-35-4	BD	2.0	ug/L	24-Oct-13	
Dichloroethylene, cis-1,2-	156-59-2	BD	2.0	ug/L	24-Oct-13	
Dichloroethylene, trans-1,2-	156-60-5	BD	2.0	ug/L	24-Oct-13	
Dichloromethane	75-09-2	BD	4.0	ug/L	24-Oct-13	
Dichloropropane, 1,2-	78-87-5	BD	2.0	ug/L	24-Oct-13	
Dichloropropane, 1,3-	142-28-9	BD	2.0	ug/L	24-Oct-13	
Dichloropropane, 2,2-	594-20-7	BD	6.0	ug/L	24-Oct-13	
Dichloropropene, 1,1-	563-58-6	BD	2.0	ug/L	24-Oct-13	
Dichloropropene, cis-1,3-	10061-01-5	BD	2.0	ug/L	24-Oct-13	
Dichloropropene, trans-1,3-	10061-02-6	BD	2.0	ug/L	24-Oct-13	
Diethyl Ether	60-29-7	BD	50	ug/L	24-Oct-13	
Diisopropyl Ether	108-20-3	BD	2.0	ug/L	24-Oct-13	
Ethylbenzene	100-41-4	BD	2.0	ug/L	24-Oct-13	
Ethylene dibromide	106-93-4	BD	2.0	ug/L	24-Oct-13	
Ethyl tert-Butyl Ether	637-92-3	BD	2.0	ug/L	24-Oct-13	

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Laboratory Services
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Sovereign Consulting, Inc.	Project: Frank Bean Road - Laconia, NH	
7 Hills Avenue	Project Number: NH011	**Reported:**
Concord NH, 03301	Project Manager: Mr. Mark Henderson	31-Oct-13 16:46

SB-107/MW
1310081-02 (Water)

Sampled: 17-Oct-13

Volatile Organic Compounds by EPA 8260B

Analyte	CAS Number	Result	Reporting Limit	Units	Analyzed	Notes
Hexachlorobutadiene	87-68-3	BD	4.0	ug/L	24-Oct-13	
Isopropylbenzene	98-82-8	**9.3**	2.0	ug/L	24-Oct-13	
Isopropyltoluene, p-	99-87-6	**6.2**	2.0	ug/L	24-Oct-13	
Methyl Butyl Ketone (2-Hexanone)	591-78-6	BD	50	ug/L	24-Oct-13	
Methyl Ethyl Ketone (2-Butanone)	78-93-3	BD	50	ug/L	24-Oct-13	
Methyl Isobutyl Ketone	108-10-1	BD	50	ug/L	24-Oct-13	
Methyl-tert-Butyl Ether	1634-04-4	BD	0.8	ug/L	24-Oct-13	
Monochlorobenzene	108-90-7	BD	2.0	ug/L	24-Oct-13	
Naphthalene	91-20-3	**14**	4.0	ug/L	24-Oct-13	
n-Propylbenzene	103-65-1	**15**	2.0	ug/L	24-Oct-13	
Styrene	100-42-5	BD	2.0	ug/L	24-Oct-13	
tert-Amyl Methyl Ether	994-05-8	BD	4.0	ug/L	24-Oct-13	
tert-Butyl alcohol	75-65-0	BD	20	ug/L	24-Oct-13	
Tetrachloroethane, 1,1,1,2-	630-20-6	BD	2.0	ug/L	24-Oct-13	
Tetrachloroethane, 1,1,2,2-	79-34-5	BD	2.0	ug/L	24-Oct-13	
Tetrachloroethylene	127-18-4	BD	2.0	ug/L	24-Oct-13	
Tetrahydrofuran	109-99-9	BD	50	ug/L	24-Oct-13	
Toluene	108-88-3	BD	2.0	ug/L	24-Oct-13	
Trichlorobenzene, 1,2,3-	87-61-6	BD	4.0	ug/L	24-Oct-13	
Trichlorobenzene, 1,2,4-	120-82-1	BD	4.0	ug/L	24-Oct-13	
Trichlorobenzene, 1,3,5-	108-70-3	BD	4.0	ug/L	24-Oct-13	
Trichloroethane, 1,1,1-	71-55-6	BD	2.0	ug/L	24-Oct-13	
Trichloroethane, 1,1,2-	79-00-5	BD	2.0	ug/L	24-Oct-13	
Trichloroethylene	79-01-6	BD	0.8	ug/L	24-Oct-13	
Trichloro 1,1,2-, trifluoro 1,2,2-, ethane	76-13-1	BD	4.0	ug/L	24-Oct-13	
Trichlorofluoromethane	75-69-4	BD	4.0	ug/L	24-Oct-13	
Trichloromethane	67-66-3	BD	2.0	ug/L	24-Oct-13	
Trichloropropane, 1,2,3-	96-18-4	BD	2.0	ug/L	24-Oct-13	
Trimethylbenzene, 1,2,4-	95-63-6	**4.2**	2.0	ug/L	24-Oct-13	
Trimethylbenzene, 1,3,5-	108-67-8	**4.0**	2.0	ug/L	24-Oct-13	
Vinyl chloride	75-01-4	**1.7**	0.8	ug/L	24-Oct-13	
Xylenes, m & p-	108-38-3,106-42-3	BD	4.0	ug/L	24-Oct-13	
Xylenes, o-	95-47-6	BD	2.0	ug/L	24-Oct-13	

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Sovereign Consulting, Inc.	Project: Frank Bean Road - Laconia, NH	
7 Hills Avenue	Project Number: NH011	**Reported:**
Concord NH, 03301	Project Manager: Mr. Mark Henderson	31-Oct-13 16:46

SB-107/MW
1310081-02 (Water)

Sampled: 17-Oct-13

Polycyclic Aromatic Hydrocarbons

Analyte	CAS Number	Result	Reporting Limit	Units	Analyzed	Method	Notes
Acenaphthene	83-32-9	BD	0.51	ug/L	30-Oct-13	8270C	
Acenaphthylene	208-96-8	**2.4**	0.51	ug/L	30-Oct-13	8270C	
Anthracene	120-12-7	BD	0.51	ug/L	30-Oct-13	8270C	
Benzo(a)anthracene	56-55-3	BD	0.10	ug/L	30-Oct-13	8270C	
Benzo(a)pyrene	50-32-8	BD	0.30	ug/L	30-Oct-13	8270C	
Benzo(b)fluoranthene	205-99-2	BD	0.51	ug/L	30-Oct-13	8270C	
Benzo(g,h,i)perylene	191-24-2	BD	0.51	ug/L	30-Oct-13	8270C	
Benzo(k)fluoranthene	207-08-9	BD	0.61	ug/L	30-Oct-13	8270C	
Chrysene	218-01-9	BD	0.51	ug/L	30-Oct-13	8270C	
Dibenz (a,h) anthracene	53-70-3	BD	0.20	ug/L	30-Oct-13	8270C	
Fluoranthene	206-44-0	BD	0.51	ug/L	30-Oct-13	8270C	
Fluorene	86-73-7	**1.7**	0.51	ug/L	30-Oct-13	8270C	
Indeno(1,2,3-cd)pyrene	193-39-5	BD	0.51	ug/L	30-Oct-13	8270C	
Methylnaphthalene, 1-	90-12-0	**21**	0.51	ug/L	30-Oct-13	8270C	
Methylnaphthalene, 2-	91-57-6	BD	0.51	ug/L	30-Oct-13	8270C	
Naphthalene	91-20-3	**11**	0.51	ug/L	30-Oct-13	8270C	
Phenanthrene	85-01-8	**2.2**	0.51	ug/L	30-Oct-13	8270C	
Pyrene	129-00-0	BD	0.51	ug/L	30-Oct-13	8270C	

Dissolved Metals by ICPMS

Analyte	CAS Number	Result	Reporting Limit	Units	Analyzed	Method	Notes
Antimony	7440-36-0	BD	1	ug/L	29-Oct-13	200.8	
Arsenic	7440-38-2	BD	1	ug/L	29-Oct-13	200.8	
Beryllium	7440-41-7	BD	1	ug/L	29-Oct-13	200.8	
Cadmium	7440-43-9	BD	1	ug/L	29-Oct-13	200.8	
Chromium	7440-47-3	**11**	1	ug/L	29-Oct-13	200.8	
Copper	7440-50-8	**1**	1	ug/L	29-Oct-13	200.8	
Lead	7439-92-1	BD	1	ug/L	29-Oct-13	200.8	
Mercury	7439-97-6	BD	0.2	ug/L	29-Oct-13	200.8	
Nickel	7440-02-0	**8**	1	ug/L	29-Oct-13	200.8	
Selenium	7782-49-2	BD	1	ug/L	29-Oct-13	200.8	
Silver	7440-22-4	BD	1	ug/L	29-Oct-13	200.8	
Thallium	7440-28-0	BD	1	ug/L	29-Oct-13	200.8	
Zinc	7440-66-6	**46**	1	ug/L	29-Oct-13	200.8	

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Sovereign Consulting, Inc.	Project: Frank Bean Road - Laconia, NH	
7 Hills Avenue	Project Number: NH011	**Reported:**
Concord NH, 03301	Project Manager: Mr. Mark Henderson	31-Oct-13 16:46

SB-105/MW
1310081-03 (Water)

Sampled: 17-Oct-13

Volatile Organic Compounds by EPA 8260B

Analyte	CAS Number	Result	Reporting Limit	Units	Analyzed	Notes
Acetone	67-64-1	BD	50	ug/L	24-Oct-13	
Benzene	71-43-2	BD	0.8	ug/L	24-Oct-13	
Bromobenzene	108-86-1	BD	2.0	ug/L	24-Oct-13	
Bromochloromethane	74-97-5	BD	2.0	ug/L	24-Oct-13	
Bromodichloromethane	75-27-4	BD	2.0	ug/L	24-Oct-13	
Bromoform	75-25-2	BD	2.0	ug/L	24-Oct-13	
Bromomethane	74-83-9	BD	2.0	ug/L	24-Oct-13	
Butylbenzene, n-	104-51-8	**2.9**	2.0	ug/L	24-Oct-13	
Butylbenzene, sec-	135-98-8	**2.7**	2.0	ug/L	24-Oct-13	
Butylbenzene, tert-	98-06-6	BD	2.0	ug/L	24-Oct-13	
Carbon disulfide	75-15-0	BD	8.0	ug/L	24-Oct-13	
Carbon Tetrachloride	56-23-5	BD	2.0	ug/L	24-Oct-13	
Chloroethane	75-00-3	BD	2.0	ug/L	24-Oct-13	
Chloromethane	74-87-3	BD	4.0	ug/L	24-Oct-13	
Chlorotoluene, 2	95-49-8	BD	2.0	ug/L	24-Oct-13	
Chlorotoluene, 4	106-43-4	BD	2.0	ug/L	24-Oct-13	
Dibromochloromethane	124-48-1	BD	2.0	ug/L	24-Oct-13	
Dibromochloropropane	96-12-8	BD	4.0	ug/L	24-Oct-13	
Dibromomethane	74-95-3	BD	2.0	ug/L	24-Oct-13	
Dichlorobenzene, 1,2-	95-50-1	**16**	2.0	ug/L	24-Oct-13	
Dichlorobenzene, 1,3-	541-73-1	BD	2.0	ug/L	24-Oct-13	
Dichlorobenzene, 1,4-	106-46-7	BD	2.0	ug/L	24-Oct-13	
Dichlorodifluoromethane	75-71-8	BD	4.0	ug/L	24-Oct-13	
Dichloroethane, 1,1-	75-34-3	BD	2.0	ug/L	24-Oct-13	
Dichloroethane, 1,2-	107-06-2	BD	2.0	ug/L	24-Oct-13	
Dichloroethylene, 1,1-	75-35-4	BD	2.0	ug/L	24-Oct-13	
Dichloroethylene, cis-1,2-	156-59-2	BD	2.0	ug/L	24-Oct-13	
Dichloroethylene, trans-1,2-	156-60-5	BD	2.0	ug/L	24-Oct-13	
Dichloromethane	75-09-2	BD	4.0	ug/L	24-Oct-13	
Dichloropropane, 1,2-	78-87-5	BD	2.0	ug/L	24-Oct-13	
Dichloropropane, 1,3-	142-28-9	BD	2.0	ug/L	24-Oct-13	
Dichloropropane, 2,2-	594-20-7	BD	6.0	ug/L	24-Oct-13	
Dichloropropene, 1,1-	563-58-6	BD	2.0	ug/L	24-Oct-13	
Dichloropropene, cis-1,3-	10061-01-5	BD	2.0	ug/L	24-Oct-13	
Dichloropropene, trans-1,3-	10061-02-6	BD	2.0	ug/L	24-Oct-13	
Diethyl Ether	60-29-7	BD	50	ug/L	24-Oct-13	
Diisopropyl Ether	108-20-3	BD	2.0	ug/L	24-Oct-13	
Ethylbenzene	100-41-4	BD	2.0	ug/L	24-Oct-13	
Ethylene dibromide	106-93-4	BD	2.0	ug/L	24-Oct-13	
Ethyl tert-Butyl Ether	637-92-3	BD	2.0	ug/L	24-Oct-13	

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7 Hills Avenue	Project Number: NH011	**Reported:**
Concord NH, 03301	Project Manager: Mr. Mark Henderson	31-Oct-13 16:46

SB-105/MW
1310081-03 (Water)

Sampled: 17-Oct-13

Volatile Organic Compounds by EPA 8260B

Analyte	CAS Number	Result	Reporting Limit	Units	Analyzed	Notes
Hexachlorobutadiene	87-68-3	BD	4.0	ug/L	24-Oct-13	
Isopropylbenzene	98-82-8	**4.9**	2.0	ug/L	24-Oct-13	
Isopropyltoluene, p-	99-87-6	BD	2.0	ug/L	24-Oct-13	
Methyl Butyl Ketone (2-Hexanone)	591-78-6	BD	50	ug/L	24-Oct-13	
Methyl Ethyl Ketone (2-Butanone)	78-93-3	BD	50	ug/L	24-Oct-13	
Methyl Isobutyl Ketone	108-10-1	BD	50	ug/L	24-Oct-13	
Methyl-tert-Butyl Ether	1634-04-4	BD	0.8	ug/L	24-Oct-13	
Monochlorobenzene	108-90-7	**6.2**	2.0	ug/L	24-Oct-13	
Naphthalene	91-20-3	BD	4.0	ug/L	24-Oct-13	
n-Propylbenzene	103-65-1	**5.8**	2.0	ug/L	24-Oct-13	
Styrene	100-42-5	BD	2.0	ug/L	24-Oct-13	
tert-Amyl Methyl Ether	994-05-8	BD	4.0	ug/L	24-Oct-13	
tert-Butyl alcohol	75-65-0	BD	20	ug/L	24-Oct-13	
Tetrachloroethane, 1,1,1,2-	630-20-6	BD	2.0	ug/L	24-Oct-13	
Tetrachloroethane, 1,1,2,2-	79-34-5	BD	2.0	ug/L	24-Oct-13	
Tetrachloroethylene	127-18-4	BD	2.0	ug/L	24-Oct-13	
Tetrahydrofuran	109-99-9	BD	50	ug/L	24-Oct-13	
Toluene	108-88-3	BD	2.0	ug/L	24-Oct-13	
Trichlorobenzene, 1,2,3-	87-61-6	BD	4.0	ug/L	24-Oct-13	
Trichlorobenzene, 1,2,4-	120-82-1	BD	4.0	ug/L	24-Oct-13	
Trichlorobenzene, 1,3,5-	108-70-3	BD	4.0	ug/L	24-Oct-13	
Trichloroethane, 1,1,1-	71-55-6	BD	2.0	ug/L	24-Oct-13	
Trichloroethane, 1,1,2-	79-00-5	BD	2.0	ug/L	24-Oct-13	
Trichloroethylene	79-01-6	BD	0.8	ug/L	24-Oct-13	
Trichloro 1,1,2-, trifluoro 1,2,2-, ethane	76-13-1	BD	4.0	ug/L	24-Oct-13	
Trichlorofluoromethane	75-69-4	BD	4.0	ug/L	24-Oct-13	
Trichloromethane	67-66-3	BD	2.0	ug/L	24-Oct-13	
Trichloropropane, 1,2,3-	96-18-4	BD	2.0	ug/L	24-Oct-13	
Trimethylbenzene, 1,2,4-	95-63-6	**5.3**	2.0	ug/L	24-Oct-13	
Trimethylbenzene, 1,3,5-	108-67-8	**2.9**	2.0	ug/L	24-Oct-13	
Vinyl chloride	75-01-4	**2.6**	0.8	ug/L	24-Oct-13	
Xylenes, m & p-	108-38-3,106-42-3	BD	4.0	ug/L	24-Oct-13	
Xylenes, o-	95-47-6	BD	2.0	ug/L	24-Oct-13	

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7 Hills Avenue	Project Number: NH011	**Reported:**
Concord NH, 03301	Project Manager: Mr. Mark Henderson	31-Oct-13 16:46

SB-105/MW
1310081-03 (Water)

Sampled: 17-Oct-13

Polycyclic Aromatic Hydrocarbons

Analyte	CAS Number	Result	Reporting Limit	Units	Analyzed	Method	Notes
Acenaphthene	83-32-9	BD	0.50	ug/L	30-Oct-13	8270C	
Acenaphthylene	208-96-8	BD	0.50	ug/L	30-Oct-13	8270C	
Anthracene	120-12-7	BD	0.50	ug/L	30-Oct-13	8270C	
Benzo(a)anthracene	56-55-3	BD	0.10	ug/L	30-Oct-13	8270C	
Benzo(a)pyrene	50-32-8	BD	0.30	ug/L	30-Oct-13	8270C	
Benzo(b)fluoranthene	205-99-2	BD	0.50	ug/L	30-Oct-13	8270C	
Benzo(g,h,i)perylene	191-24-2	BD	0.50	ug/L	30-Oct-13	8270C	
Benzo(k)fluoranthene	207-08-9	BD	0.60	ug/L	30-Oct-13	8270C	
Chrysene	218-01-9	BD	0.50	ug/L	30-Oct-13	8270C	
Dibenz (a,h) anthracene	53-70-3	BD	0.20	ug/L	30-Oct-13	8270C	
Fluoranthene	206-44-0	BD	0.50	ug/L	30-Oct-13	8270C	
Fluorene	86-73-7	**0.52**	0.50	ug/L	30-Oct-13	8270C	
Indeno(1,2,3-cd)pyrene	193-39-5	BD	0.50	ug/L	30-Oct-13	8270C	
Methylnaphthalene, 1-	90-12-0	**4.6**	0.50	ug/L	30-Oct-13	8270C	
Methylnaphthalene, 2-	91-57-6	BD	0.50	ug/L	30-Oct-13	8270C	
Naphthalene	91-20-3	**0.89**	0.50	ug/L	30-Oct-13	8270C	
Phenanthrene	85-01-8	**0.77**	0.50	ug/L	30-Oct-13	8270C	
Pyrene	129-00-0	BD	0.50	ug/L	30-Oct-13	8270C	

Dissolved Metals by ICPMS

Analyte	CAS Number	Result	Reporting Limit	Units	Analyzed	Method	Notes
Antimony	7440-36-0	BD	1	ug/L	29-Oct-13	200.8	
Arsenic	7440-38-2	**2**	1	ug/L	29-Oct-13	200.8	
Beryllium	7440-41-7	BD	1	ug/L	29-Oct-13	200.8	
Cadmium	7440-43-9	BD	1	ug/L	29-Oct-13	200.8	
Chromium	7440-47-3	**19**	1	ug/L	29-Oct-13	200.8	
Copper	7440-50-8	**2**	1	ug/L	29-Oct-13	200.8	
Lead	7439-92-1	BD	1	ug/L	29-Oct-13	200.8	
Mercury	7439-97-6	BD	0.2	ug/L	29-Oct-13	200.8	
Nickel	7440-02-0	**2**	1	ug/L	29-Oct-13	200.8	
Selenium	7782-49-2	BD	1	ug/L	29-Oct-13	200.8	
Silver	7440-22-4	BD	1	ug/L	29-Oct-13	200.8	
Thallium	7440-28-0	BD	1	ug/L	29-Oct-13	200.8	
Zinc	7440-66-6	**52**	1	ug/L	29-Oct-13	200.8	

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Sovereign Consulting, Inc.	Project: Frank Bean Road - Laconia, NH	
7 Hills Avenue	Project Number: NH011	**Reported:**
Concord NH, 03301	Project Manager: Mr. Mark Henderson	31-Oct-13 16:46

SB-101/MW
1310081-04 (Water)

Sampled: 17-Oct-13

Volatile Organic Compounds by EPA 8260B

Analyte	CAS Number	Result	Reporting Limit	Units	Analyzed	Notes
Acetone	67-64-1	BD	50	ug/L	24-Oct-13	
Benzene	71-43-2	BD	0.8	ug/L	24-Oct-13	
Bromobenzene	108-86-1	BD	2.0	ug/L	24-Oct-13	
Bromochloromethane	74-97-5	BD	2.0	ug/L	24-Oct-13	
Bromodichloromethane	75-27-4	BD	2.0	ug/L	24-Oct-13	
Bromoform	75-25-2	BD	2.0	ug/L	24-Oct-13	
Bromomethane	74-83-9	BD	2.0	ug/L	24-Oct-13	
Butylbenzene, n-	104-51-8	BD	2.0	ug/L	24-Oct-13	
Butylbenzene, sec-	135-98-8	BD	2.0	ug/L	24-Oct-13	
Butylbenzene, tert-	98-06-6	BD	2.0	ug/L	24-Oct-13	
Carbon disulfide	75-15-0	BD	8.0	ug/L	24-Oct-13	
Carbon Tetrachloride	56-23-5	BD	2.0	ug/L	24-Oct-13	
Chloroethane	75-00-3	BD	2.0	ug/L	24-Oct-13	
Chloromethane	74-87-3	BD	4.0	ug/L	24-Oct-13	
Chlorotoluene, 2	95-49-8	BD	2.0	ug/L	24-Oct-13	
Chlorotoluene, 4	106-43-4	BD	2.0	ug/L	24-Oct-13	
Dibromochloromethane	124-48-1	BD	2.0	ug/L	24-Oct-13	
Dibromochloropropane	96-12-8	BD	4.0	ug/L	24-Oct-13	
Dibromomethane	74-95-3	BD	2.0	ug/L	24-Oct-13	
Dichlorobenzene, 1,2-	95-50-1	BD	2.0	ug/L	24-Oct-13	
Dichlorobenzene, 1,3-	541-73-1	BD	2.0	ug/L	24-Oct-13	
Dichlorobenzene, 1,4-	106-46-7	BD	2.0	ug/L	24-Oct-13	
Dichlorodifluoromethane	75-71-8	BD	4.0	ug/L	24-Oct-13	
Dichloroethane, 1,1-	75-34-3	BD	2.0	ug/L	24-Oct-13	
Dichloroethane, 1,2-	107-06-2	BD	2.0	ug/L	24-Oct-13	
Dichloroethylene, 1,1-	75-35-4	BD	2.0	ug/L	24-Oct-13	
Dichloroethylene, cis-1,2-	156-59-2	BD	2.0	ug/L	24-Oct-13	
Dichloroethylene, trans-1,2-	156-60-5	BD	2.0	ug/L	24-Oct-13	
Dichloromethane	75-09-2	BD	4.0	ug/L	24-Oct-13	
Dichloropropane, 1,2-	78-87-5	BD	2.0	ug/L	24-Oct-13	
Dichloropropane, 1,3-	142-28-9	BD	2.0	ug/L	24-Oct-13	
Dichloropropane, 2,2-	594-20-7	BD	6.0	ug/L	24-Oct-13	
Dichloropropene, 1,1-	563-58-6	BD	2.0	ug/L	24-Oct-13	
Dichloropropene, cis-1,3-	10061-01-5	BD	2.0	ug/L	24-Oct-13	
Dichloropropene, trans-1,3-	10061-02-6	BD	2.0	ug/L	24-Oct-13	
Diethyl Ether	60-29-7	BD	50	ug/L	24-Oct-13	
Diisopropyl Ether	108-20-3	BD	2.0	ug/L	24-Oct-13	
Ethylbenzene	100-41-4	BD	2.0	ug/L	24-Oct-13	
Ethylene dibromide	106-93-4	BD	2.0	ug/L	24-Oct-13	
Ethyl tert-Butyl Ether	637-92-3	BD	2.0	ug/L	24-Oct-13	

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Laboratory Services
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Sovereign Consulting, Inc.	Project: Frank Bean Road - Laconia, NH	
7 Hills Avenue	Project Number: NH011	**Reported:**
Concord NH, 03301	Project Manager: Mr. Mark Henderson	31-Oct-13 16:46

SB-101/MW
1310081-04 (Water)

Sampled: 17-Oct-13

Volatile Organic Compounds by EPA 8260B

Analyte	CAS Number	Result	Reporting Limit	Units	Analyzed	Notes
Hexachlorobutadiene	87-68-3	BD	4.0	ug/L	24-Oct-13	
Isopropylbenzene	98-82-8	BD	2.0	ug/L	24-Oct-13	
Isopropyltoluene, p-	99-87-6	BD	2.0	ug/L	24-Oct-13	
Methyl Butyl Ketone (2-Hexanone)	591-78-6	BD	50	ug/L	24-Oct-13	
Methyl Ethyl Ketone (2-Butanone)	78-93-3	BD	50	ug/L	24-Oct-13	
Methyl Isobutyl Ketone	108-10-1	BD	50	ug/L	24-Oct-13	
Methyl-tert-Butyl Ether	1634-04-4	BD	0.8	ug/L	24-Oct-13	
Monochlorobenzene	108-90-7	BD	2.0	ug/L	24-Oct-13	
Naphthalene	91-20-3	BD	4.0	ug/L	24-Oct-13	
n-Propylbenzene	103-65-1	BD	2.0	ug/L	24-Oct-13	
Styrene	100-42-5	BD	2.0	ug/L	24-Oct-13	
tert-Amyl Methyl Ether	994-05-8	BD	4.0	ug/L	24-Oct-13	
tert-Butyl alcohol	75-65-0	BD	20	ug/L	24-Oct-13	
Tetrachloroethane, 1,1,1,2-	630-20-6	BD	2.0	ug/L	24-Oct-13	
Tetrachloroethane, 1,1,2,2-	79-34-5	BD	2.0	ug/L	24-Oct-13	
Tetrachloroethylene	127-18-4	BD	2.0	ug/L	24-Oct-13	
Tetrahydrofuran	109-99-9	BD	50	ug/L	24-Oct-13	
Toluene	108-88-3	BD	2.0	ug/L	24-Oct-13	
Trichlorobenzene, 1,2,3-	87-61-6	BD	4.0	ug/L	24-Oct-13	
Trichlorobenzene, 1,2,4-	120-82-1	BD	4.0	ug/L	24-Oct-13	
Trichlorobenzene, 1,3,5-	108-70-3	BD	4.0	ug/L	24-Oct-13	
Trichloroethane, 1,1,1-	71-55-6	BD	2.0	ug/L	24-Oct-13	
Trichloroethane, 1,1,2-	79-00-5	BD	2.0	ug/L	24-Oct-13	
Trichloroethylene	79-01-6	**9.8**	0.8	ug/L	24-Oct-13	
Trichloro 1,1,2-, trifluoro 1,2,2-, ethane	76-13-1	BD	4.0	ug/L	24-Oct-13	
Trichlorofluoromethane	75-69-4	BD	4.0	ug/L	24-Oct-13	
Trichloromethane	67-66-3	BD	2.0	ug/L	24-Oct-13	
Trichloropropane, 1,2,3-	96-18-4	BD	2.0	ug/L	24-Oct-13	
Trimethylbenzene, 1,2,4-	95-63-6	BD	2.0	ug/L	24-Oct-13	
Trimethylbenzene, 1,3,5-	108-67-8	BD	2.0	ug/L	24-Oct-13	
Vinyl chloride	75-01-4	BD	0.8	ug/L	24-Oct-13	
Xylenes, m & p-	108-38-3,106-42-3	BD	4.0	ug/L	24-Oct-13	
Xylenes, o-	95-47-6	BD	2.0	ug/L	24-Oct-13	

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Sovereign Consulting, Inc.	Project: Frank Bean Road - Laconia, NH	
7 Hills Avenue	Project Number: NH011	**Reported:**
Concord NH, 03301	Project Manager: Mr. Mark Henderson	31-Oct-13 16:46

SB-101/MW
1310081-04 (Water)

Sampled: 17-Oct-13

Polycyclic Aromatic Hydrocarbons

Analyte	CAS Number	Result	Reporting Limit	Units	Analyzed	Method	Notes
Acenaphthene	83-32-9	BD	0.53	ug/L	30-Oct-13	8270C	
Acenaphthylene	208-96-8	BD	0.53	ug/L	30-Oct-13	8270C	
Anthracene	120-12-7	BD	0.53	ug/L	30-Oct-13	8270C	
Benzo(a)anthracene	56-55-3	BD	0.11	ug/L	30-Oct-13	8270C	
Benzo(a)pyrene	50-32-8	BD	0.32	ug/L	30-Oct-13	8270C	
Benzo(b)fluoranthene	205-99-2	BD	0.53	ug/L	30-Oct-13	8270C	
Benzo(g,h,i)perylene	191-24-2	BD	0.53	ug/L	30-Oct-13	8270C	
Benzo(k)fluoranthene	207-08-9	BD	0.63	ug/L	30-Oct-13	8270C	
Chrysene	218-01-9	BD	0.53	ug/L	30-Oct-13	8270C	
Dibenz (a,h) anthracene	53-70-3	BD	0.21	ug/L	30-Oct-13	8270C	
Fluoranthene	206-44-0	BD	0.53	ug/L	30-Oct-13	8270C	
Fluorene	86-73-7	BD	0.53	ug/L	30-Oct-13	8270C	
Indeno(1,2,3-cd)pyrene	193-39-5	BD	0.53	ug/L	30-Oct-13	8270C	
Methylnaphthalene, 1-	90-12-0	BD	0.53	ug/L	30-Oct-13	8270C	
Methylnaphthalene, 2-	91-57-6	BD	0.53	ug/L	30-Oct-13	8270C	
Naphthalene	91-20-3	BD	0.53	ug/L	30-Oct-13	8270C	
Phenanthrene	85-01-8	BD	0.53	ug/L	30-Oct-13	8270C	
Pyrene	129-00-0	BD	0.53	ug/L	30-Oct-13	8270C	

Dissolved Metals by ICPMS

Analyte	CAS Number	Result	Reporting Limit	Units	Analyzed	Method	Notes
Antimony	7440-36-0	BD	2	ug/L	30-Oct-13	200.8	
Arsenic	7440-38-2	BD	2	ug/L	30-Oct-13	200.8	
Beryllium	7440-41-7	BD	1	ug/L	29-Oct-13	200.8	
Cadmium	7440-43-9	BD	2	ug/L	30-Oct-13	200.8	
Chromium	7440-47-3	**16**	2	ug/L	30-Oct-13	200.8	
Copper	7440-50-8	**4**	2	ug/L	30-Oct-13	200.8	
Lead	7439-92-1	BD	1	ug/L	29-Oct-13	200.8	
Mercury	7439-97-6	BD	0.2	ug/L	29-Oct-13	200.8	
Nickel	7440-02-0	**6**	2	ug/L	30-Oct-13	200.8	
Selenium	7782-49-2	**8**	2	ug/L	30-Oct-13	200.8	
Silver	7440-22-4	BD	2	ug/L	30-Oct-13	200.8	
Thallium	7440-28-0	BD	1	ug/L	29-Oct-13	200.8	
Zinc	7440-66-6	**22**	2	ug/L	30-Oct-13	200.8	

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7 Hills Avenue	Project Number: NH011	**Reported:**
Concord NH, 03301	Project Manager: Mr. Mark Henderson	31-Oct-13 16:46

SB-104/MW
1310081-05 (Water)

Sampled: 17-Oct-13

Volatile Organic Compounds by EPA 8260B

Analyte	CAS Number	Result	Reporting Limit	Units	Analyzed	Notes
Acetone	67-64-1	BD	50	ug/L	24-Oct-13	
Benzene	71-43-2	BD	0.8	ug/L	24-Oct-13	
Bromobenzene	108-86-1	BD	2.0	ug/L	24-Oct-13	
Bromochloromethane	74-97-5	BD	2.0	ug/L	24-Oct-13	
Bromodichloromethane	75-27-4	BD	2.0	ug/L	24-Oct-13	
Bromoform	75-25-2	BD	2.0	ug/L	24-Oct-13	
Bromomethane	74-83-9	BD	2.0	ug/L	24-Oct-13	
Butylbenzene, n-	104-51-8	BD	2.0	ug/L	24-Oct-13	
Butylbenzene, sec-	135-98-8	BD	2.0	ug/L	24-Oct-13	
Butylbenzene, tert-	98-06-6	BD	2.0	ug/L	24-Oct-13	
Carbon disulfide	75-15-0	BD	8.0	ug/L	24-Oct-13	
Carbon Tetrachloride	56-23-5	BD	2.0	ug/L	24-Oct-13	
Chloroethane	75-00-3	BD	2.0	ug/L	24-Oct-13	
Chloromethane	74-87-3	BD	4.0	ug/L	24-Oct-13	
Chlorotoluene, 2	95-49-8	BD	2.0	ug/L	24-Oct-13	
Chlorotoluene, 4	106-43-4	BD	2.0	ug/L	24-Oct-13	
Dibromochloromethane	124-48-1	BD	2.0	ug/L	24-Oct-13	
Dibromochloropropane	96-12-8	BD	4.0	ug/L	24-Oct-13	
Dibromomethane	74-95-3	BD	2.0	ug/L	24-Oct-13	
Dichlorobenzene, 1,2-	95-50-1	BD	2.0	ug/L	24-Oct-13	
Dichlorobenzene, 1,3-	541-73-1	BD	2.0	ug/L	24-Oct-13	
Dichlorobenzene, 1,4-	106-46-7	BD	2.0	ug/L	24-Oct-13	
Dichlorodifluoromethane	75-71-8	BD	4.0	ug/L	24-Oct-13	
Dichloroethane, 1,1-	75-34-3	BD	2.0	ug/L	24-Oct-13	
Dichloroethane, 1,2-	107-06-2	BD	2.0	ug/L	24-Oct-13	
Dichloroethylene, 1,1-	75-35-4	BD	2.0	ug/L	24-Oct-13	
Dichloroethylene, cis-1,2-	156-59-2	BD	2.0	ug/L	24-Oct-13	
Dichloroethylene, trans-1,2-	156-60-5	BD	2.0	ug/L	24-Oct-13	
Dichloromethane	75-09-2	BD	4.0	ug/L	24-Oct-13	
Dichloropropane, 1,2-	78-87-5	BD	2.0	ug/L	24-Oct-13	
Dichloropropane, 1,3-	142-28-9	BD	2.0	ug/L	24-Oct-13	
Dichloropropane, 2,2-	594-20-7	BD	6.0	ug/L	24-Oct-13	
Dichloropropene, 1,1-	563-58-6	BD	2.0	ug/L	24-Oct-13	
Dichloropropene, cis-1,3-	10061-01-5	BD	2.0	ug/L	24-Oct-13	
Dichloropropene, trans-1,3-	10061-02-6	BD	2.0	ug/L	24-Oct-13	
Diethyl Ether	60-29-7	BD	50	ug/L	24-Oct-13	
Diisopropyl Ether	108-20-3	BD	2.0	ug/L	24-Oct-13	
Ethylbenzene	100-41-4	BD	2.0	ug/L	24-Oct-13	
Ethylene dibromide	106-93-4	BD	2.0	ug/L	24-Oct-13	
Ethyl tert-Butyl Ether	637-92-3	BD	2.0	ug/L	24-Oct-13	

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7 Hills Avenue	Project Number: NH011	**Reported:**
Concord NH, 03301	Project Manager: Mr. Mark Henderson	31-Oct-13 16:46

SB-104/MW
1310081-05 (Water)

Sampled: 17-Oct-13

Volatile Organic Compounds by EPA 8260B

Analyte	CAS Number	Result	Reporting Limit	Units	Analyzed	Notes
Hexachlorobutadiene	87-68-3	BD	4.0	ug/L	24-Oct-13	
Isopropylbenzene	98-82-8	BD	2.0	ug/L	24-Oct-13	
Isopropyltoluene, p-	99-87-6	BD	2.0	ug/L	24-Oct-13	
Methyl Butyl Ketone (2-Hexanone)	591-78-6	BD	50	ug/L	24-Oct-13	
Methyl Ethyl Ketone (2-Butanone)	78-93-3	BD	50	ug/L	24-Oct-13	
Methyl Isobutyl Ketone	108-10-1	BD	50	ug/L	24-Oct-13	
Methyl-tert-Butyl Ether	1634-04-4	BD	0.8	ug/L	24-Oct-13	
Monochlorobenzene	108-90-7	BD	2.0	ug/L	24-Oct-13	
Naphthalene	91-20-3	BD	4.0	ug/L	24-Oct-13	
n-Propylbenzene	103-65-1	BD	2.0	ug/L	24-Oct-13	
Styrene	100-42-5	BD	2.0	ug/L	24-Oct-13	
tert-Amyl Methyl Ether	994-05-8	BD	4.0	ug/L	24-Oct-13	
tert-Butyl alcohol	75-65-0	BD	20	ug/L	24-Oct-13	
Tetrachloroethane, 1,1,1,2-	630-20-6	BD	2.0	ug/L	24-Oct-13	
Tetrachloroethane, 1,1,2,2-	79-34-5	BD	2.0	ug/L	24-Oct-13	
Tetrachloroethylene	127-18-4	BD	2.0	ug/L	24-Oct-13	
Tetrahydrofuran	109-99-9	BD	50	ug/L	24-Oct-13	
Toluene	108-88-3	BD	2.0	ug/L	24-Oct-13	
Trichlorobenzene, 1,2,3-	87-61-6	BD	4.0	ug/L	24-Oct-13	
Trichlorobenzene, 1,2,4-	120-82-1	BD	4.0	ug/L	24-Oct-13	
Trichlorobenzene, 1,3,5-	108-70-3	BD	4.0	ug/L	24-Oct-13	
Trichloroethane, 1,1,1-	71-55-6	BD	2.0	ug/L	24-Oct-13	
Trichloroethane, 1,1,2-	79-00-5	BD	2.0	ug/L	24-Oct-13	
Trichloroethylene	79-01-6	BD	0.8	ug/L	24-Oct-13	
Trichloro 1,1,2-, trifluoro 1,2,2-, ethane	76-13-1	BD	4.0	ug/L	24-Oct-13	
Trichlorofluoromethane	75-69-4	BD	4.0	ug/L	24-Oct-13	
Trichloromethane	67-66-3	BD	2.0	ug/L	24-Oct-13	
Trichloropropane, 1,2,3-	96-18-4	BD	2.0	ug/L	24-Oct-13	
Trimethylbenzene, 1,2,4-	95-63-6	BD	2.0	ug/L	24-Oct-13	
Trimethylbenzene, 1,3,5-	108-67-8	BD	2.0	ug/L	24-Oct-13	
Vinyl chloride	75-01-4	BD	0.8	ug/L	24-Oct-13	
Xylenes, m & p-	108-38-3,106-42-3	BD	4.0	ug/L	24-Oct-13	
Xylenes, o-	95-47-6	BD	2.0	ug/L	24-Oct-13	

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SB-104/MW
1310081-05 (Water)

Sampled: 17-Oct-13

Polycyclic Aromatic Hydrocarbons

Analyte	CAS Number	Result	Reporting Limit	Units	Analyzed	Method	Notes
Acenaphthene	83-32-9	BD	0.50	ug/L	30-Oct-13	8270C	
Acenaphthylene	208-96-8	BD	0.50	ug/L	30-Oct-13	8270C	
Anthracene	120-12-7	BD	0.50	ug/L	30-Oct-13	8270C	
Benzo(a)anthracene	56-55-3	**0.12**	0.10	ug/L	30-Oct-13	8270C	
Benzo(a)pyrene	50-32-8	BD	0.30	ug/L	30-Oct-13	8270C	
Benzo(b)fluoranthene	205-99-2	BD	0.50	ug/L	30-Oct-13	8270C	
Benzo(g,h,i)perylene	191-24-2	BD	0.50	ug/L	30-Oct-13	8270C	
Benzo(k)fluoranthene	207-08-9	BD	0.60	ug/L	30-Oct-13	8270C	
Chrysene	218-01-9	BD	0.50	ug/L	30-Oct-13	8270C	
Dibenz (a,h) anthracene	53-70-3	BD	0.20	ug/L	30-Oct-13	8270C	
Fluoranthene	206-44-0	BD	0.50	ug/L	30-Oct-13	8270C	
Fluorene	86-73-7	BD	0.50	ug/L	30-Oct-13	8270C	
Indeno(1,2,3-cd)pyrene	193-39-5	BD	0.50	ug/L	30-Oct-13	8270C	
Methylnaphthalene, 1-	90-12-0	BD	0.50	ug/L	30-Oct-13	8270C	
Methylnaphthalene, 2-	91-57-6	BD	0.50	ug/L	30-Oct-13	8270C	
Naphthalene	91-20-3	BD	0.50	ug/L	30-Oct-13	8270C	
Phenanthrene	85-01-8	BD	0.50	ug/L	30-Oct-13	8270C	
Pyrene	129-00-0	BD	0.50	ug/L	30-Oct-13	8270C	

Dissolved Metals by ICPMS

Analyte	CAS Number	Result	Reporting Limit	Units	Analyzed	Method	Notes
Antimony	7440-36-0	BD	1	ug/L	29-Oct-13	200.8	
Arsenic	7440-38-2	BD	1	ug/L	29-Oct-13	200.8	
Beryllium	7440-41-7	BD	1	ug/L	29-Oct-13	200.8	
Cadmium	7440-43-9	BD	1	ug/L	29-Oct-13	200.8	
Chromium	7440-47-3	**6**	1	ug/L	29-Oct-13	200.8	CCV
Copper	7440-50-8	**3**	1	ug/L	29-Oct-13	200.8	
Lead	7439-92-1	BD	1	ug/L	29-Oct-13	200.8	
Mercury	7439-97-6	BD	0.2	ug/L	29-Oct-13	200.8	
Nickel	7440-02-0	**2**	1	ug/L	29-Oct-13	200.8	
Selenium	7782-49-2	BD	1	ug/L	29-Oct-13	200.8	
Silver	7440-22-4	BD	1	ug/L	29-Oct-13	200.8	
Thallium	7440-28-0	BD	1	ug/L	29-Oct-13	200.8	
Zinc	7440-66-6	**30**	1	ug/L	29-Oct-13	200.8	

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Sovereign Consulting, Inc.	Project:	Frank Bean Road - Laconia, NH	
7 Hills Avenue	Project Number:	NH011	**Reported:**
Concord NH, 03301	Project Manager:	Mr. Mark Henderson	31-Oct-13 16:46

Notes and Definitions

Spk	Spike sample exceeds limits Zn 163%.
CCV	Calibration Check exceeds limits Cr 112%.
BD	Analyte result below the laboratory reporting limit
NR	Not Reported

Soil sample results reported on a dry weight basis.

The reporting limit is the lowest level at which reliable quantitation has been demonstrated.

Analytes in **bold** are values reported above the reporting limit.

This analytical report may only be reproduced in its entirety.

Aquarian Analytical, Inc.

Laboratory Services

153 West Road
Canterbury, NH 03224
Phone:(603)783-9097
Fax:(603)783-0360
E-Mail: aquarianlab@comcast.net

Turnaround Requirements (check one)

- **RUSH SAMPLES NEED PRIOR APPROVAL**
- ____ Same Day Turnaround (150% upcharge)
- ____ One Day Turnaround (100% upcharge)
- ____ Two Day Turnaround (50% upcharge)
- ____ Three Day Turnaround (25% upcharge)
- X Normal turnaround

Project Information

Project #:	NH011	Project Manager:	Mark Henderson
Project Name:	Frank Bean Rd.	Report to:	Sovereign Consulting
Town/Site:	Laconia, NH	Invoice to:	Sovereign Consulting
Sampler:	Dylan Bush	Phone:	603-856-8644
Company:	Sovereign Consulting	E-Mail:	mhenderson@sovcon.com
BID Reference:			

Sample Information / VOC's SVOC's / TPH / Metals / TCLP / Other (list)

NELAC Qc Y___ N___

AAI Work Order #	Sample ID	Sample Collection Time	Sample Matrix	Number of Containers	EPA 8260 w/ oxygenates	BTEX / MTBE	BTEX+MTBE+Naphthalene	Chlorinated only	EPA 524.2 Drinking Water	EDB	1,4 Dioxane	EPA 8270 A-B/N	EPA 8270 PAH	EPA 8015M Gasoline	EPA 8100M Fuel Oil	Fingerprint	RCRA 8	Field Filtered: 13 PP METALS	Lab Filtered:	Total:	Zero Headspace Extraction (ZHE)	TCLP Pesticides	TCLP Herbicides	TCLP Metals	PCB	EPA SW846-7 Reactivity	EPA 1010 Flashpoint / Ignitab	EPA 150.1 / 9045 pH	Alkalinity	Nitrate	Sulfate	Chloride	NH DES Full LIST
1310081-01	SB-118/MW	10-17-13 / 11:00	GW	4									X					X															X
-02	SB-107/MW	11:56											X					X															X
-03	SB-105/MW	13:12											X					X															X
-04	SB-101/MW	13:45											X					X															X
-05	SB-104/MW	14:54											X					X															X

Relinquished by: Dylan Bush	Date: 10-17-13 Time: 16:10	Received by: Sovcon Refrigerator	Notes: * Samples kept on ice during transport
Relinquished by: Refrigerator	Date: 10-21-13 Time: 845	Received by: [signature]	Temperature 3 °C
Relinquished by:	Date: Time:	Received by:	Is this N.H. "ODD Fund" related? Y___ N ✓

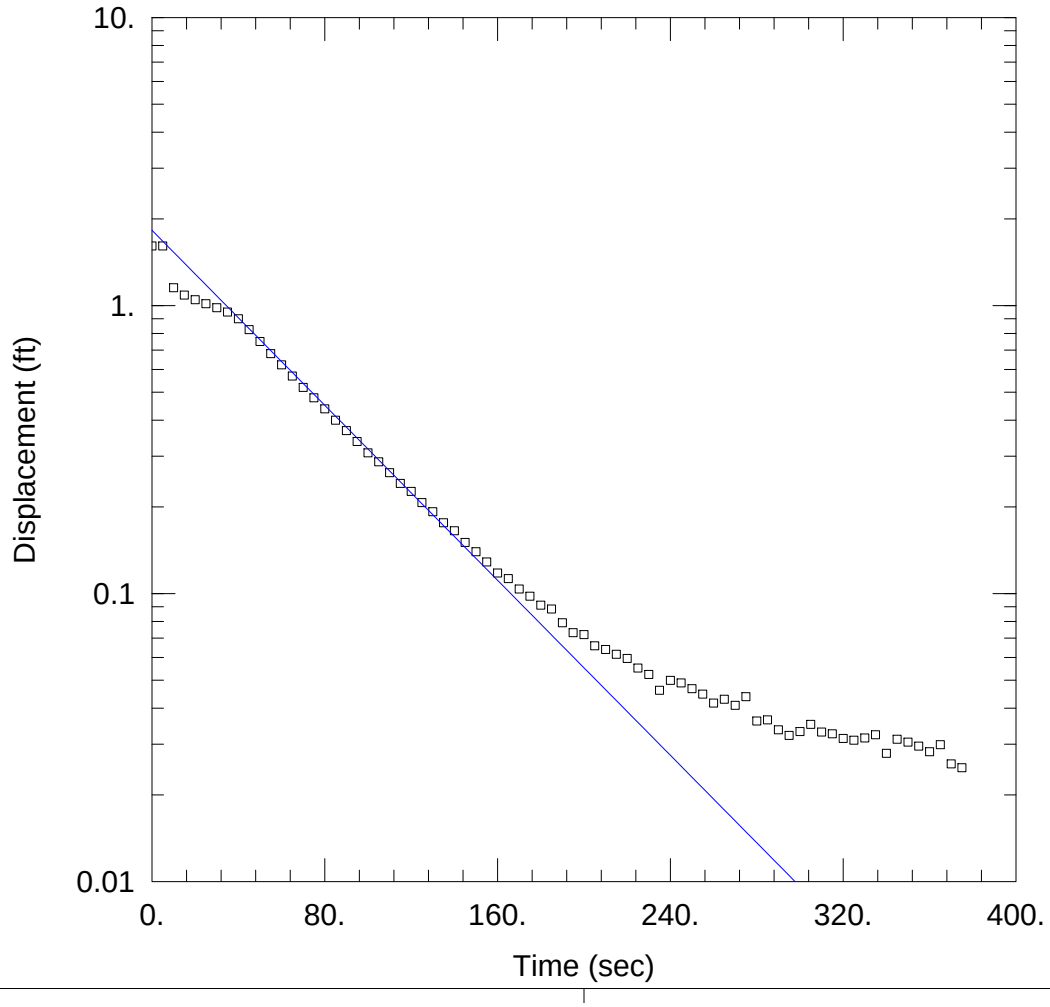
Aquarian Analytical will subcontract those tests we do not perform with your prior approval

Please keep samples on ice from the time of collection

ATTACHMENT G

SB-105 Rising I

Prepared By:	Prepared For:
Sovereign Consulting Inc	City of Laconia
Project:	Location:
NH011	Frank Bean Rd



Data Set: P:\Laconia\NH011.FrankBean Road\Working\Slug Test Data\AQTESOLV\SB-AQUIFER DATA
Date: 11/25/13 Time: 16:54:46

SOLUTION

Aquifer Model: Unconfined
Solution Method: Bouwer-Rice

K = 2.091 ft/day y0 = 1.825 ft

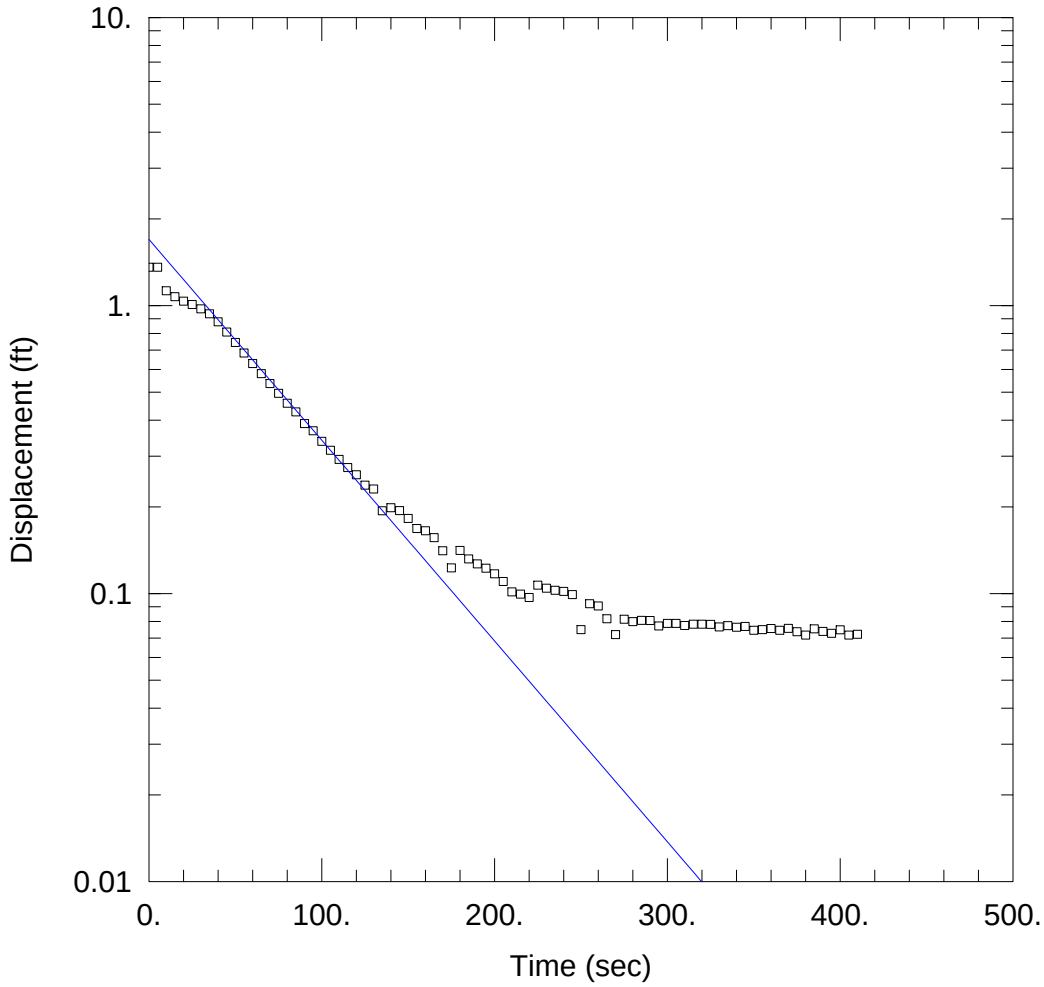
Saturated Thickness: 80.46 ft Anisotropy Ratio (Kz/Kr): 1.

WELL DATA (SB-105)

Initial Displacement: 1.611 ft
Static Water Column Height: 3.78 ft
Total Well Penetration Depth: 7.46 ft
Screen Length: 7.46 ft
Casing Radius: 0.08333 ft
Well Radius: 0.08333 ft
Gravel Pack Porosity: 0.

SB-105 Rising II

Prepared By:	Prepared For:
Sovereign Consulting Inc	City of Laconia
Project:	Location:
NH011	Frank Bean Rd



Data Set: P:\Laconia\NH011.FrankBean Road\Working\Slug Test Data\AQTESOLV\SB-AQUIFER DATA
Date: 11/25/13 Time: 16:55:54

SOLUTION

Aquifer Model: Unconfined
Solution Method: Bouwer-Rice

K = 1.919 ft/day y0 = 1.697 ft

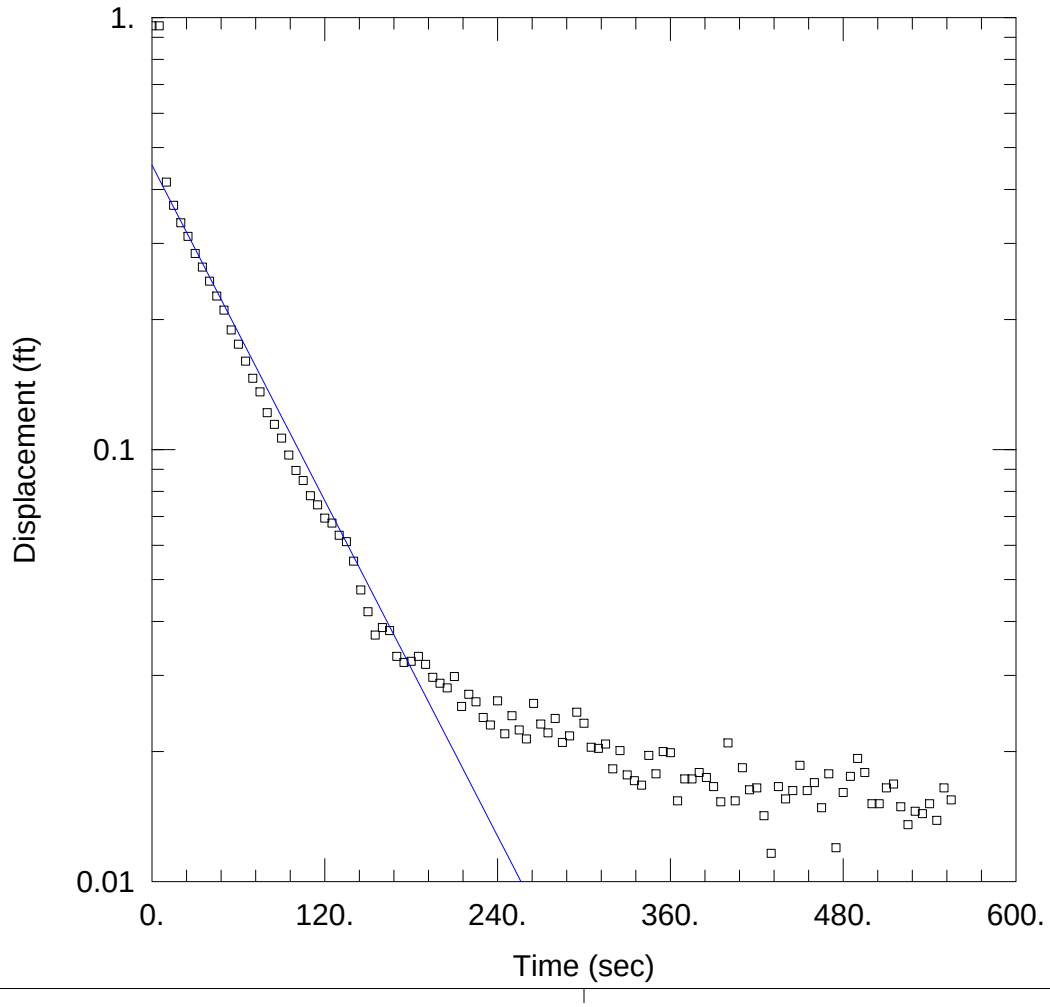
Saturated Thickness: 80.46 ft Anisotropy Ratio (Kz/Kr): 1.

WELL DATA (SB-105)

Initial Displacement: 1.358 ft
Static Water Column Height: 3.78 ft
Total Well Penetration Depth: 7.46 ft
Screen Length: 7.46 ft
Casing Radius: 0.08333 ft
Well Radius: 0.08333 ft
Gravel Pack Porosity: 0.

SB-105 Falling I

Prepared By:	Prepared For:
Sovereign Consulting Inc	City of Laconia
Project:	Location:
NH011	Frank Bean Rd



Data Set: P:\Laconia\NH011.FrankBean Road\Working\Slug Test Data\AQTESOLV\SB-AQUIFER DATA
Date: 11/25/13 Time: 16:51:47

SOLUTION

Aquifer Model: Unconfined
Solution Method: Bouwer-Rice

K = 1.782 ft/day y0 = 0.4553 ft

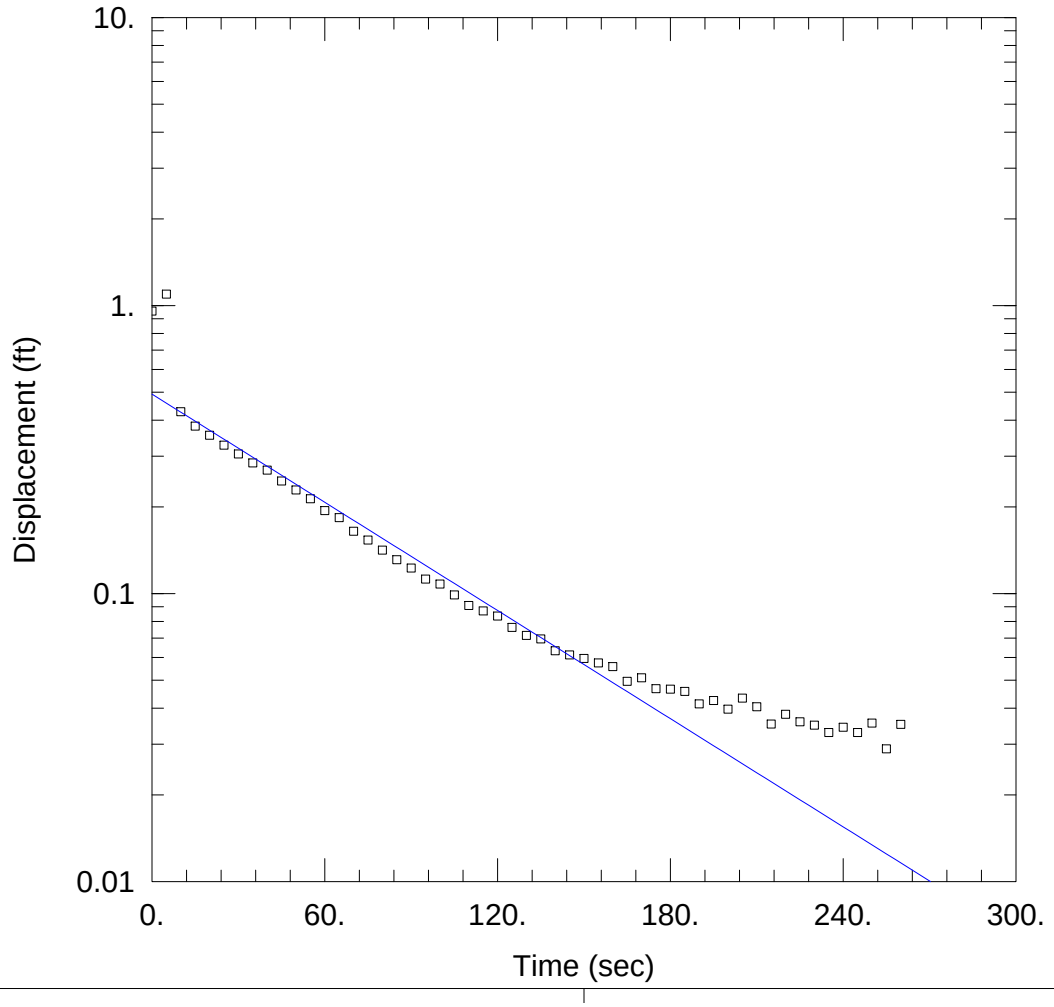
Saturated Thickness: 80.46 ft Anisotropy Ratio (Kz/Kr): 1.

WELL DATA (SB-105)

Initial Displacement: 0.9572 ft
Static Water Column Height: 3.78 ft
Total Well Penetration Depth: 7.46 ft
Screen Length: 7.46 ft
Casing Radius: 0.08333 ft
Well Radius: 0.08333 ft
Gravel Pack Porosity: 0.

SB-105 Falling II

Prepared By:	Prepared For:
Sovereign Consulting Inc	City of Laconia
Project:	Location:
NH011	Frank Bean Rd



Data Set: P:\Laconia\NH011.FrankBean Road\Working\Slug Test Data\AQTESOLV\SB-AQUIFER DATA
Date: 11/26/13 Time: 07:00:07

SOLUTION

Aquifer Model: Unconfined
Solution Method: Bouwer-Rice

K = 1.723 ft/day y0 = 0.4925 ft

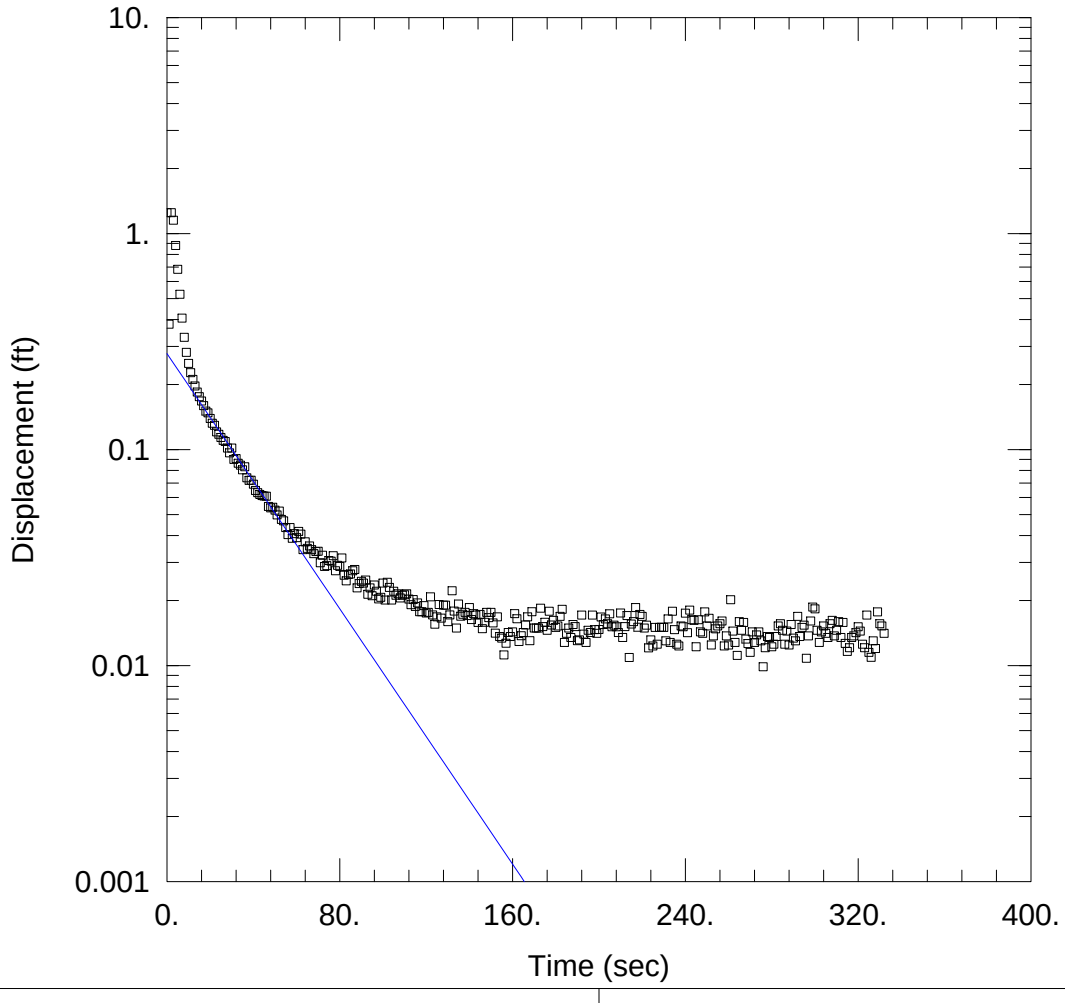
Saturated Thickness: 80.46 ft Anisotropy Ratio (Kz/Kr): 1.

WELL DATA (SB-105)

Initial Displacement: 0.9572 ft
Static Water Column Height: 3.78 ft
Total Well Penetration Depth: 7.46 ft
Screen Length: 7.46 ft
Casing Radius: 0.08333 ft
Well Radius: 0.08333 ft
Gravel Pack Porosity: 0.

SB-110 Rising I

Prepared By:	Prepared For:
Sovereign Consulting Inc	City of Laconia
Project:	Location:
NH011	Frank Bean Rd



Data Set: P:\Laconia\NH011.FrankBean Road\Working\Slug Test Data\AQTESOLV\SB-AQUIFER DATA
Date: 11/25/13 Time: 17:02:46

SOLUTION

Aquifer Model: Unconfined
Solution Method: Bouwer-Rice

K = 6.485 ft/day y0 = 0.278 ft

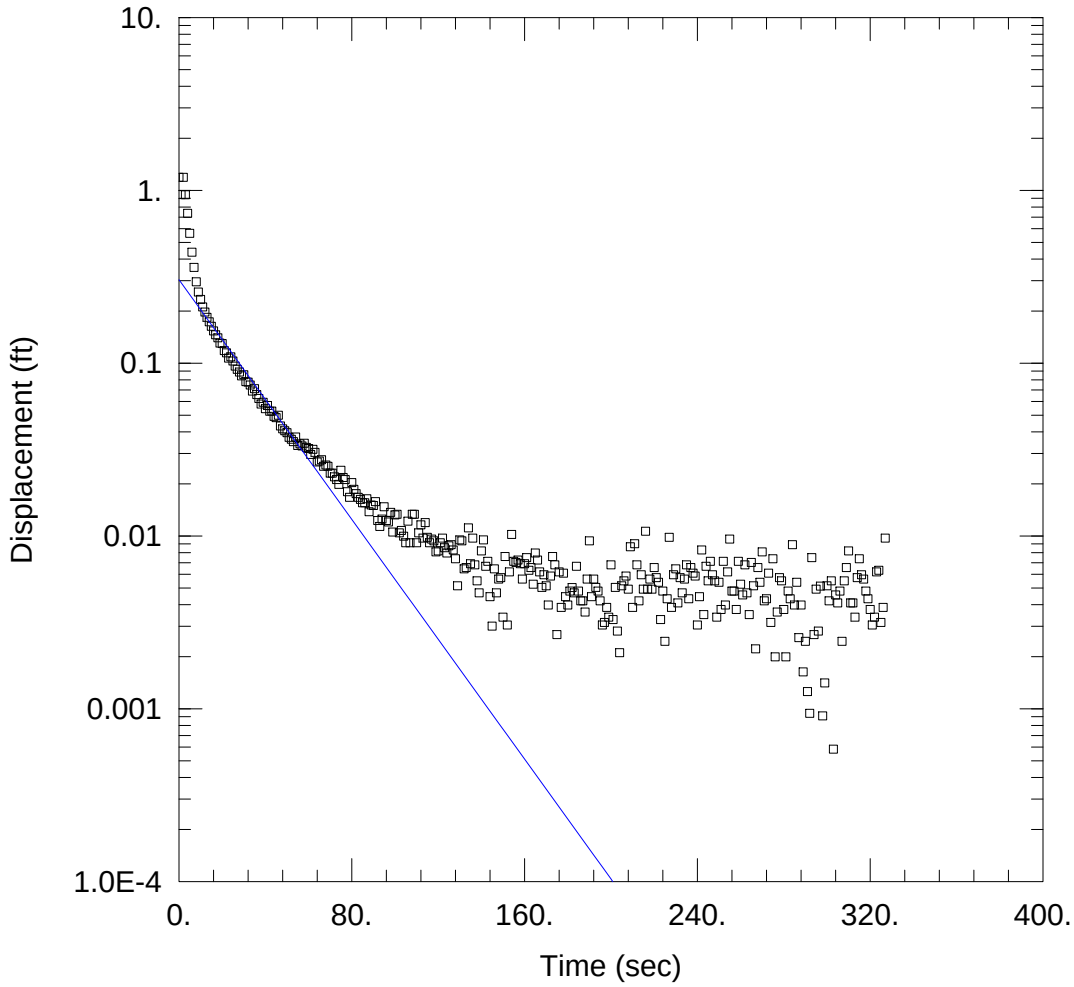
Saturated Thickness: 75.79 ft Anisotropy Ratio (Kz/Kr): 1.

WELL DATA (SB-110)

Initial Displacement: 1.25 ft
Static Water Column Height: 3.6 ft
Total Well Penetration Depth: 3.79 ft
Screen Length: 3.79 ft
Casing Radius: 0.08333 ft
Well Radius: 0.08333 ft
Gravel Pack Porosity: 0.

SB-110 Rising II

Prepared By:	Prepared For:
Sovereign Consulting Inc	City of Laconia
Project:	Location:
NH011	Frank Bean Rd



Data Set: P:\Laconia\NH011.FrankBean Road\Working\Slug Test Data\AQTESOLV\SB-AQUIFER DATA
Date: 11/25/13 Time: 17:03:36

SOLUTION

Aquifer Model: Unconfined
Solution Method: Bouwer-Rice

K = 7.613 ft/day y0 = 0.3041 ft

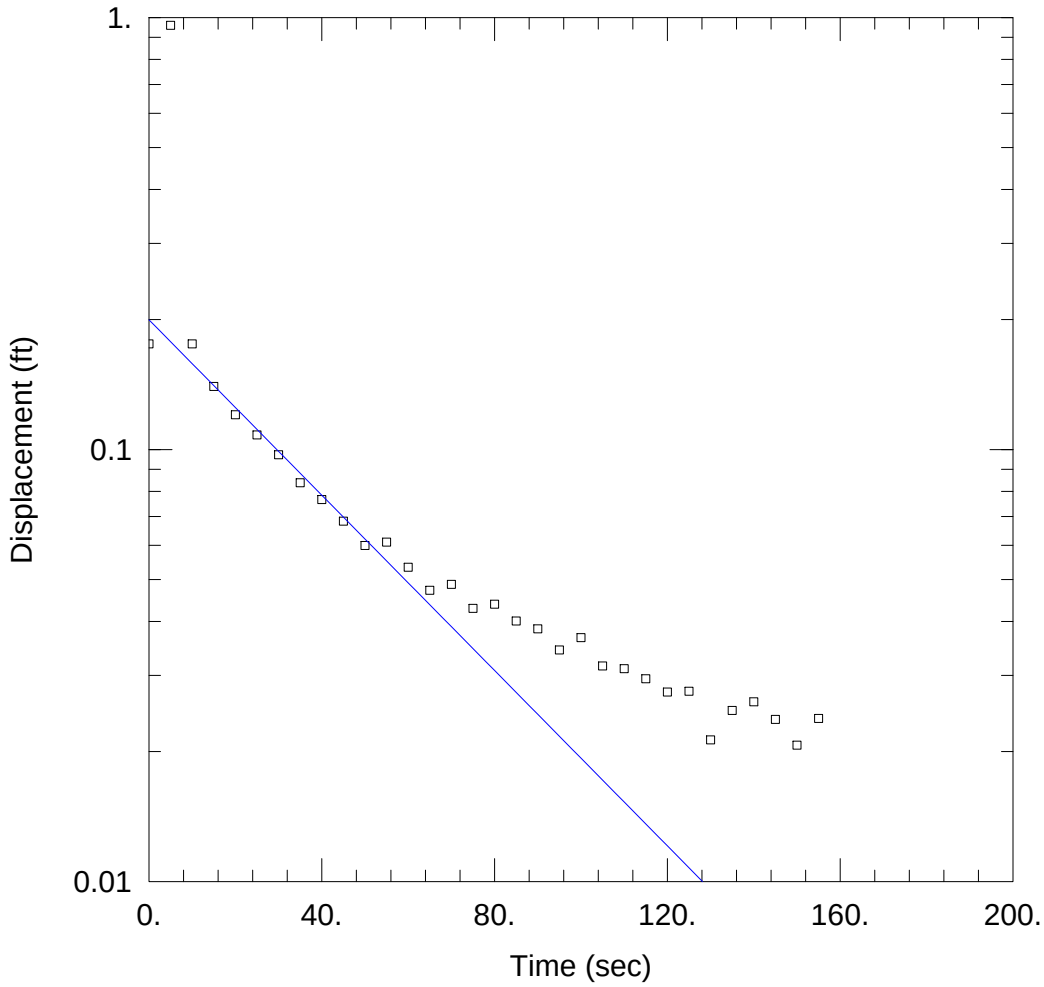
Saturated Thickness: 75.79 ft Anisotropy Ratio (Kz/Kr): 1.

WELL DATA (SB-110)

Initial Displacement: 1.189 ft
Static Water Column Height: 3.6 ft
Total Well Penetration Depth: 3.79 ft
Screen Length: 3.79 ft
Casing Radius: 0.08333 ft
Well Radius: 0.08333 ft
Gravel Pack Porosity: 0.

SB-110 Falling I

Prepared By:	Prepared For:
Sovereign Consulting Inc	City of Laconia
Project:	Location:
NH011	Frank Bean Rd



Data Set: P:\Laconia\NH011.FrankBean Road\Working\Slug Test Data\AQTESOLV\SB-AQUIFER DATA
Date: 11/25/13 Time: 16:57:21

SOLUTION

Aquifer Model: Unconfined
Solution Method: Bouwer-Rice

K = 4.455 ft/day y0 = 0.1997 ft

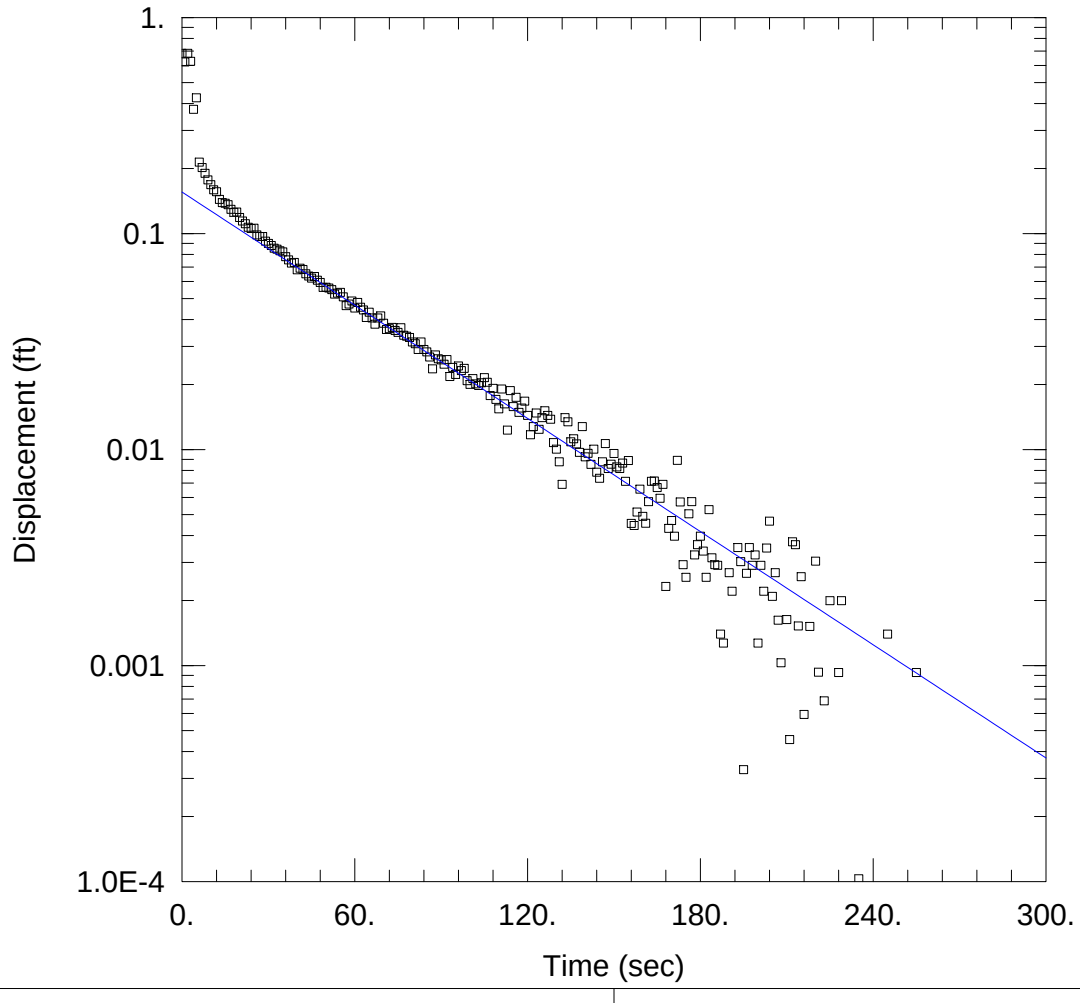
Saturated Thickness: 75.79 ft Anisotropy Ratio (Kz/Kr): 1.

WELL DATA (SB-110)

Initial Displacement: 0.1757 ft
Static Water Column Height: 3.6 ft
Total Well Penetration Depth: 3.79 ft
Screen Length: 3.79 ft
Casing Radius: 0.08333 ft
Well Radius: 0.08333 ft
Gravel Pack Porosity: 0.

SB-110 Falling II

Prepared By:	Prepared For:
Sovereign Consulting Inc	City of Laconia
Project:	Location:
NH011	Frank Bean Rd



Data Set: P:\Laconia\NH011.FrankBean Road\Working\Slug Test Data\AQTESOLV\SB-AQUIFER DATA
Date: 11/25/13 Time: 16:58:44

SOLUTION

Aquifer Model: Unconfined
Solution Method: Bouwer-Rice

K = 3.834 ft/day y0 = 0.1557 ft

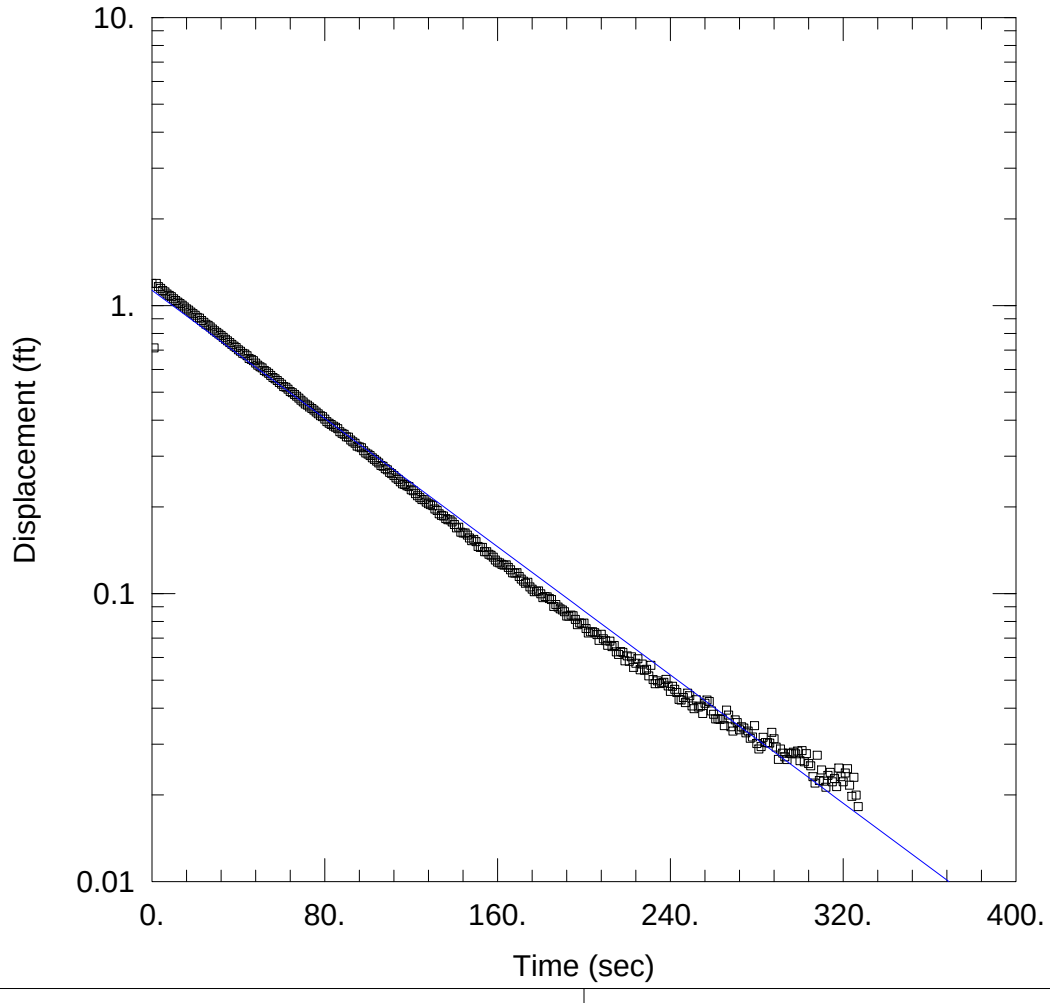
Saturated Thickness: 75.79 ft Anisotropy Ratio (Kz/Kr): 1.

WELL DATA (SB-110)

Initial Displacement: 0.6831 ft
Static Water Column Height: 3.6 ft
Total Well Penetration Depth: 3.79 ft
Screen Length: 3.79 ft
Casing Radius: 0.08333 ft
Well Radius: 0.08333 ft
Gravel Pack Porosity: 0.

SB-120 Rising I

Prepared By:	Prepared For:
Sovereign Consulting Inc	City of Laconia
Project:	Location:
NH011	Frank Bean Rd



Data Set: P:\Laconia\NH011.FrankBean Road\Working\Slug Test Data\AQTESOLV\SB-AQUIFER DATA
Date: 11/25/13 Time: 17:06:06

SOLUTION

Aquifer Model: Unconfined
Solution Method: Bouwer-Rice

K = 2.792 ft/day y0 = 1.13 ft

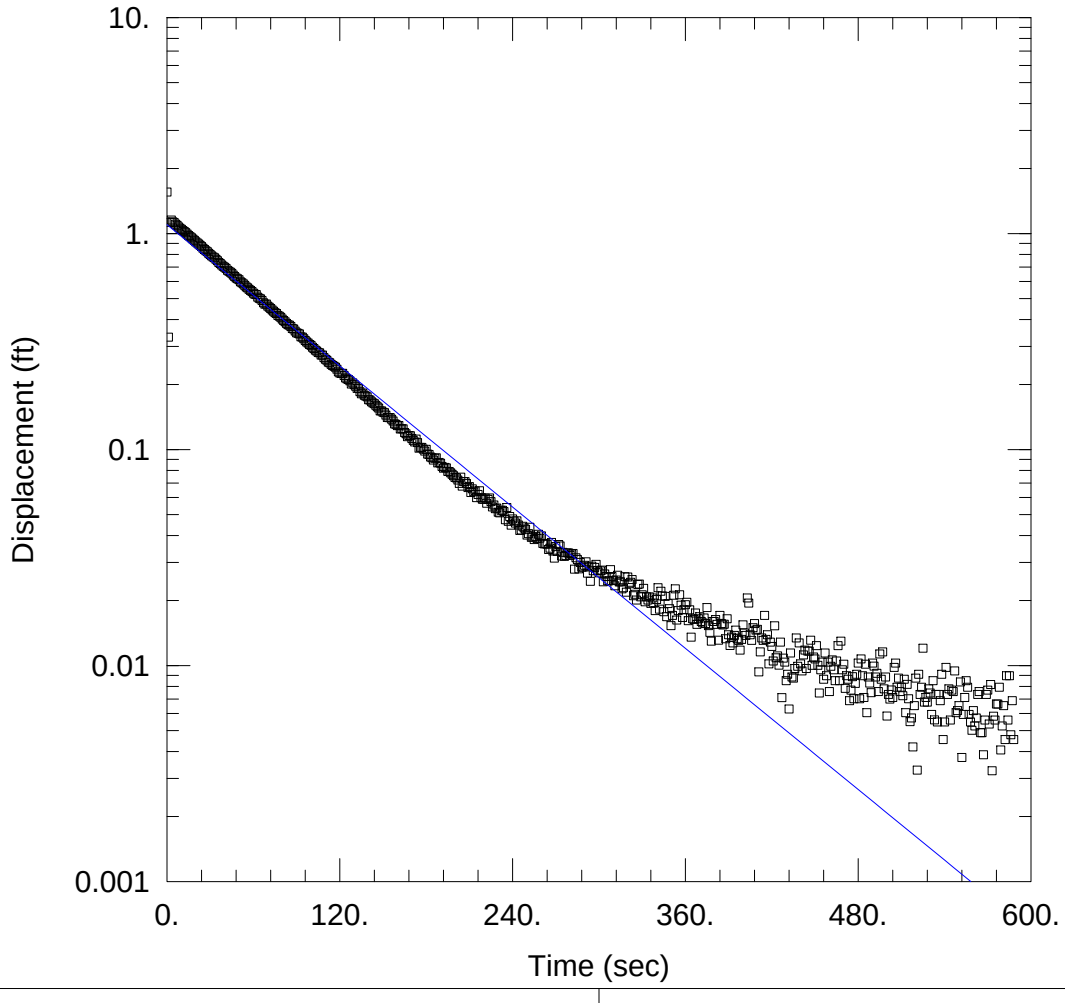
Saturated Thickness: 54.08 ft Anisotropy Ratio (Kz/Kr): 1.

WELL DATA (SB-120)

Initial Displacement: 1.193 ft
Static Water Column Height: 2.98 ft
Total Well Penetration Depth: 3.08 ft
Screen Length: 3.08 ft
Casing Radius: 0.08333 ft
Well Radius: 0.08333 ft
Gravel Pack Porosity: 0.

SB-120 Rising II

Prepared By:	Prepared For:
Sovereign Consulting Inc	City of Laconia
Project:	Location:
NH011	Frank Bean Rd



Data Set: P:\Laconia\NH011.FrankBean Road\Working\Slug Test Data\AQTESOLV\SB-AQUIFER DATA
Date: 11/25/13 Time: 17:06:45

SOLUTION

Aquifer Model: Unconfined
Solution Method: Bouwer-Rice

K = 2.733 ft/day y0 = 1.099 ft

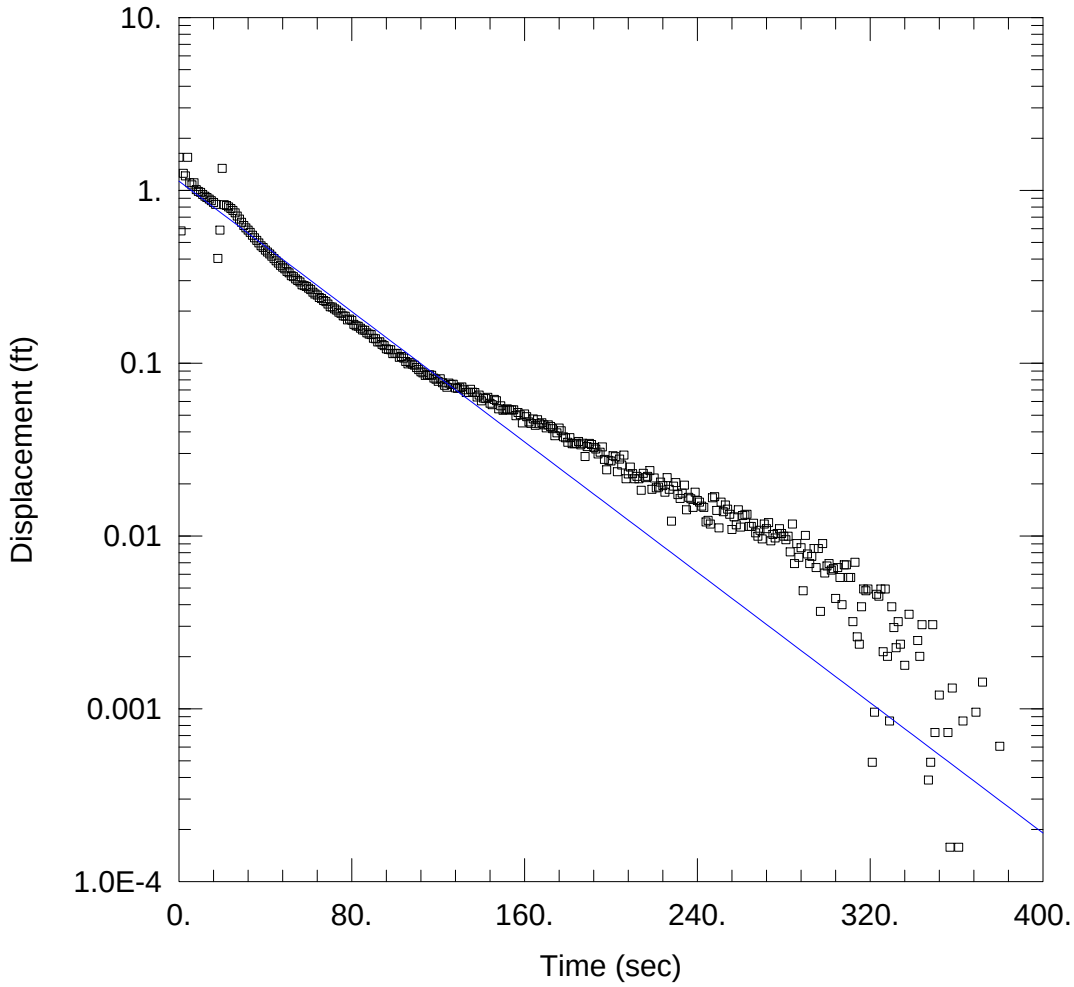
Saturated Thickness: 54.08 ft Anisotropy Ratio (Kz/Kr): 1.

WELL DATA (SB-120)

Initial Displacement: 1.556 ft
Static Water Column Height: 2.98 ft
Total Well Penetration Depth: 3.08 ft
Screen Length: 3.08 ft
Casing Radius: 0.08333 ft
Well Radius: 0.08333 ft
Gravel Pack Porosity: 0.

SB-120 Falling I

Prepared By:	Prepared For:
Sovereign Consulting Inc	City of Laconia
Project:	Location:
NH011	Frank Bean Rd



Data Set: P:\Laconia\NH011.FrankBean Road\Working\Slug Test Data\AQTESOLV\SB-AQUIFER DATA
Date: 11/25/13 Time: 17:04:29

SOLUTION

Aquifer Model: Unconfined
Solution Method: Bouwer-Rice

K = 4.731 ft/day y0 = 1.13 ft

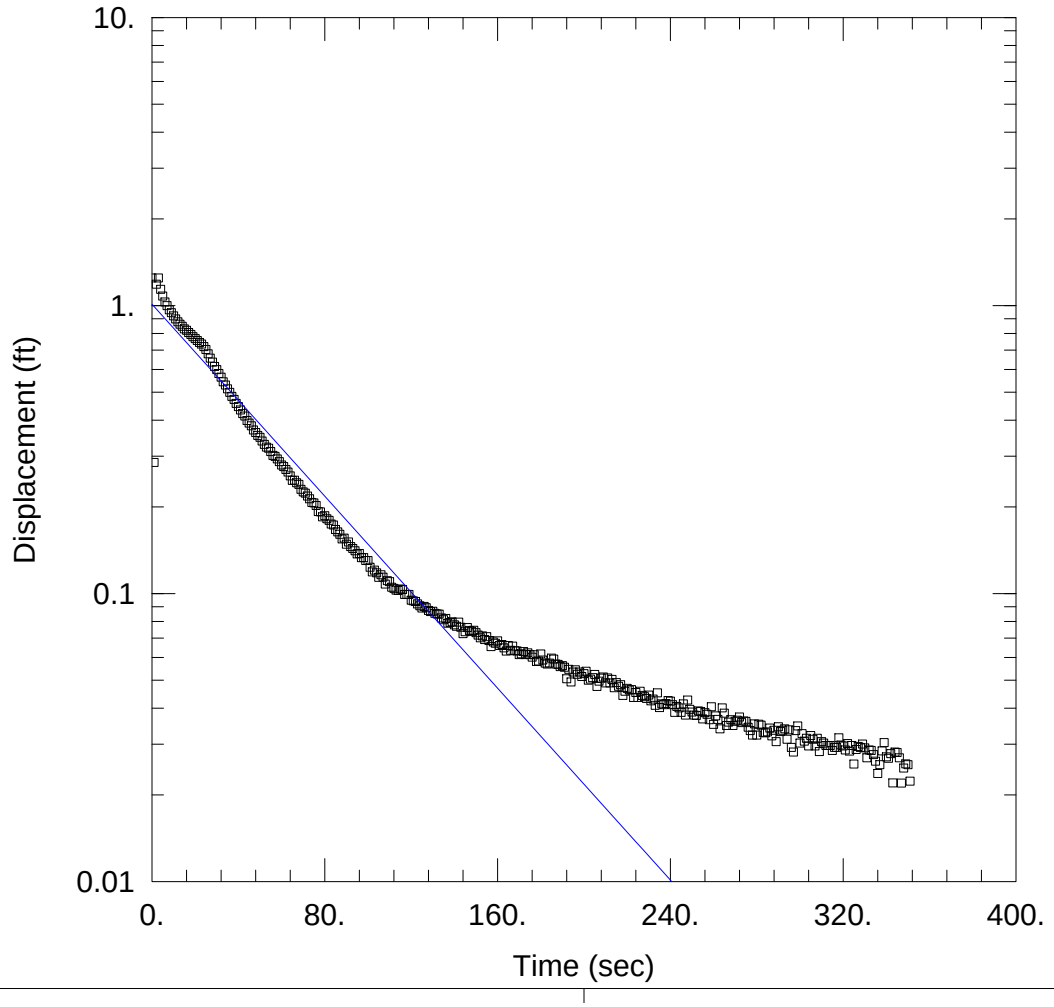
Saturated Thickness: 54.08 ft Anisotropy Ratio (Kz/Kr): 1.

WELL DATA (SB-120)

Initial Displacement: 1.554 ft
Static Water Column Height: 2.98 ft
Total Well Penetration Depth: 3.08 ft
Screen Length: 3.08 ft
Casing Radius: 0.08333 ft
Well Radius: 0.08333 ft
Gravel Pack Porosity: 0.

SB-120 Falling II

Prepared By:	Prepared For:
Sovereign Consulting Inc	City of Laconia
Project:	Location:
NH011	Frank Bean Rd



Data Set: P:\Laconia\NH011.FrankBean Road\Working\Slug Test Data\AQTESOLV\SB-AQUIFER DATA
Date: 11/25/13 Time: 17:05:19

SOLUTION

Aquifer Model: Unconfined
Solution Method: Bouwer-Rice

K = 4.179 ft/day y0 = 1.011 ft

Saturated Thickness: 54.08 ft Anisotropy Ratio (Kz/Kr): 1.

WELL DATA (SB-120)

Initial Displacement: 1.247 ft
Static Water Column Height: 2.98 ft
Total Well Penetration Depth: 3.08 ft
Screen Length: 3.08 ft
Casing Radius: 0.08333 ft
Well Radius: 0.08333 ft
Gravel Pack Porosity: 0.