



July 11, 2006

Ms. Deanna Herber
6826 Monument Hill Road
Castleton, Vermont 05735-9635

Re: Site Investigation Report – Herber Residence
6826 Monument Hill Road, Castleton, Vermont

Dear Ms. Herber:

Lincoln Applied Geology, Inc. (LAG) is pleased to present the attached Site Investigation Report detailing recent work efforts at the above referenced property. Please do not hesitate to contact me at (800) 477-4384 with any questions regarding this report.

Sincerely,
Lincoln Applied Geology, Inc.

Dagan Murray
Project Manager

DAM/rmc
Enclosures

cc: Tami Wuestenberg, VDEC - Sites Management Section

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Herber Residence Site Investigation Report SMS Site #2006-3511

Deanna Herber
6826 Monument Hill Road
Castleton, VT 05735-9635
(802) 273-2301

July 10, 2006

043E 40' 42.71" N
073E 08' 28.50" W

Prepared by:

Lincoln Applied Geology, Inc.
163 Revell Drive
Lincoln, VT 05443
(800) 477-4384
Contact: Dagan Murray
LAG Project #06040



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Executive Summary

The Herber Residence (“Site”) is located at 6826 Monument Hill Road in Castleton, Vermont (**Figure 1**). The 5 acre parcel is a residential property. Soils were impacted by a release of approximately 100 gallons of kerosene from an aboveground storage tank (AST) at the Site (**Figure 3**). Lincoln Applied Geology, Inc. (LAG) responded to the reported spill on April 6, 2006, and in conjunction with Fabian Earthmoving excavated approximately 80 cubic yards of contaminated soil. Contamination reached the saturated zone in only one location, off the northeast corner of the residence. LAG submitted a summary report to the Vermont Department of Environmental Conservation (VDEC) Spills Program on April 18, 2006. The VDEC Sites Management Section requested a follow up subsurface investigation to assess impact to ground water at the Site.

On May 4, 2006, Lincoln Applied Geology, Inc. (LAG), in conjunction with Specialty Drilling & Investigation of Burlington, Vermont installed five ground water monitoring wells at the Site. LAG returned to the Site on May 18, 2006 to conduct PID screening of monitoring well headspace, ground water level gauging, and ground water quality sampling.

As part of a sensitive receptor survey, the Site and several surrounding water supplies and the surface water from a nearby pond on the adjacent property downgradient of the Site were sampled. Laboratory analysis of all drinking water supplies and the surface water sample were non-detect for petroleum related volatile organic compounds (VOCs).

Laboratory analysis of the collected ground water samples indicates no impact of dissolved phase petroleum contaminants above the Groundwater Quality Enforcement Standard (GQES) exist beneath the Site. It appears that the large amount of soil excavated during the initial cleanup activities has helped to prevent penetration of contaminants to the saturated zone, and mitigate dissolution of petroleum VOCs into the underlying shallow aquifer. LAG recommends a confirmatory water quality sampling round in August 2006 to assess the threat to sensitive receptors in the area during lower water table conditions.



Table of Contents

Executive Summary	i
1.0 Site Information	1
2.0 Background	2
3.0 Subsurface Investigation.....	2
3.1 Regional Geology and Hydrogeology	2
3.2 Monitoring Well Installations.....	2
3.3 Ground Water Monitoring and Sampling.....	3
4.0 Sensitive Receptor Survey	4
5.0 Soil Stockpile Transport and Disposal.....	5
6.0 Conceptual Model	5
7.0 Conclusions and Recommendations	6

Tables

Table 1	Ground Water/Free Product Levels
Table 2.....	Photoionization Detector Assay Results
Table 3.....	Ground Water Quality Summary Data

Figures

Figure 1	General Location Map
Figure 2.....	Area Map
Figure 3.....	Detailed Site Map
Figure 4.....	Ground Water Contour and Water Quality Summary Map for May 18, 2006

Appendices

Appendix A	Boring Logs & Monitoring Well Construction Diagrams
Appendix B	Raw Data Field Notes
Appendix C	Ground Water Quality Laboratory Reports for May 18, 2006
Appendix D	Drinking Water Quality Laboratory Reports for April & May 2006
Appendix E	Surface Water Quality Laboratory Report for April 25, 2006
Appendix F.....	Soil Transportation Documentation & Destruction Certificate

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Appendix G Hazardous Waste Manifest
Appendix H MSDS Sheets



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1.0 Property Owner and Adjoining Property Information

The general location of the Site and surrounding properties are shown on **Figures 1** and **2**.

Site Address:

Ms. Deanna Herber (owner)
6826 Monument Hill Road
Castleton, VT 05735-9635

Adjoiners:

Guy & Joy Loso (south abutter)
6892 Monument Hill Road
Castleton, VT 05735

Jen Whitehurst (east abutter)
6816 Monument Hill Road
Castleton, VT 05735

George Hults (northeast abutter)
6786 Monument Hill Road
Castleton, VT 05735

Brenda Shackett
6841 Monument Hill Road
Castleton, VT 05735
(east across Monument Hill Road)

Lindsey & Carol Harthshorn
6865 Monument Hill Road
Castleton, VT 05735
(east across Monument Hill Road)

Ella Walch
6917 Monument Hill Road
Castleton, VT 05735
(southeast across Monument Hill Road)

Nancy Baird
6916 Monument Hill Road
Castleton, VT 05735
(south of Loso Residence)



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2.0 Background

The Herber Residence (Site) is located at 6826 Monument Hill Road in Castleton, Vermont as shown on **Figures 1, 2, and 3** as a USGS Topographic, an Area Map, and a Detailed Site Map, respectively. **Figure 2** provides details regarding locations of adjacent and nearby landowners and their water supply sources. **Figure 3** provides Site-specific information and pertinent features. The 5 acre Site is currently used as a residential property. The residence is constructed on a slab-on-grade foundation. The Site is served by a drilled bedrock drinking water source, as are all adjoining and nearby residences. The property is bounded to the north and west by undeveloped land, to the east by the Whitehurst Residence, and to the south by the Loso Residence. The Site has been a residential property since it's creation in the early 1990's. The current property owner is Deanna Herber.

Lincoln Applied Geology, Inc. (LAG) responded to a report of a spill of an unknown quantity of kerosene from an aboveground storage tank (AST) at the Site on April 6, 2006. LAG in conjunction with Fabian Earthmoving of West Rutland, Vermont excavated impacted soils from the AST release, and cleaned up the residual fuel underneath the residence. Two (2) confirmatory soil samples were collected from the east end of the residence after excavating approximately 40 yards of contaminated soil. The soil sample collected from a depth of 3.5 feet on the northeast corner of the residence contained elevated concentrations of volatile organic compounds (VOCs) and total petroleum hydrocarbons (TPH).

Fabian Earthmoving was remobilized to the Site on April 12, 2006 to conduct additional excavation in this area, as well as a kerosene stained area to the south of the residence that was not observed during the initial response due to snow melt and saturated ground. Ground water was encountered at approximately 5 feet below grade during excavation in the northeast corner of the residence. A small amount of product was noted on the ground water surface. The product was removed with absorbent pads and soils were excavated until background PID readings were obtained. The excavation ceased approximately 6.5 feet below grade. All soils were excavated until background readings were obtained on the north and south sides of the residence with the exception of a very small area underneath the steps to the south. These soils could not be removed because doing so would leave the front porch structurally unstable. Approximately 80 cubic yards of contaminated soil were temporarily stockpiled on-Site in accordance with the Vermont Department of Environmental Conservation (VDEC) guidelines for petroleum contaminated soil and debris. Please reference LAG's *Spill Response/Site Assessment Summary Report* dated April 18, 2006 for further background information.



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3.0 Subsurface Investigation

3.1 Regional Geology and Hydrogeology

The Centennial Geologic Map of Vermont¹ identifies bedrock in the area as the West Castleton and St. Catherine formations. The West Castleton formation is a gray to black, siliceous, carbonaceous, and pyritiferous slate containing thin white sandy laminae. The St. Catherine formation consists of purple, gray-green, variegated slates and phyllites. Based on the strong reaction of ground water samples obtained from area drinking water wells to the hydrochloric acid (HCL) in the sample vials, and the neighbor's description of "sulfur water" in drilled bedrock wells, the area bedrock predominantly consists of the West Castleton formation.

The Surficial Geologic Map of Vermont² identifies surficial geology as till. The Bomoseen 7.5-minute topographic quadrangle map displays a general south-southeast ground surface slope. It is expected based on regional topography, and the fact that the East Hubbardton valley drains to the south, that regional ground water flow in the shallow overburden would be to the south-southeast.

3.2 Monitoring Well Installations

On May 4, 2006, LAG, in conjunction with Specialty Drilling & Investigation (SDI) of Burlington, Vermont installed five (5) 1.5" diameter monitoring wells (MW-1 through MW-5). Monitoring well locations are depicted on the Site Map presented as **Figure 3**. The monitoring wells were installed using direct push methodologies with continuous core sampling. Detailed well logs are included in **Appendix A**. No elevated concentrations of VOCs were detected via PID during the installation of the monitoring wells. Ground water was encountered from 2 to 10 feet below grade across the Site. Copies of the raw field data are included as **Appendix B**.

Review of the available data indicates that:

- Native soils encountered in the locations of MW-1 through MW-5 consisted of dense clayey till. Fine sand backfill was present from grade to 6 feet at MW-3 in the previously excavated area.
- Vapor phase contamination was not encountered during the installation of the five wells on May 4, 2006.
- Saturated soils were encountered at depths ranging from 2 to 10 feet below grade across the Site.

¹ C. Doll. Centennial Geologic Map of Vermont. Vermont Geologic Survey. 1961

² Stewart & McClintock. Surficial Geologic Map of Vermont. Vermont Geological Survey. 1970.

- Bedrock was not encountered during drilling. Based on a visual survey of surrounding outcrops, bedrock is estimated to be relatively shallow beneath the Site.

3.3 Ground Water Monitoring and Sampling

LAG returned to the Site on May 18, 2006 to conduct ground water level measurement, well headspace screening with a PID, and to collect water quality samples for laboratory analysis via EPA Method 8260 & 8015 DRO (diesel range organics). **Tables 1, 2, and 3** provide tabulated summaries of ground water levels, PID assay results, and water quality laboratory results, respectively. Field notes are included in **Appendix B**. Copies of the analytical laboratory reports are included in **Appendix C**. **Figure 4** depicts ground water elevation contours and water quality concentrations. Review of the assimilated data indicates that:

- Ground water in the surficial aquifer was measured between 0.16' and 4.75' below grade across the Site.
- Ground water flows south-southeast beneath the Site at an estimated hydraulic gradient of 5.9% between MW-1 and MW-4. The hydraulic gradient increases to 8.9% between MW-4 and MW-5.
- Based on the current site characterization, ground water is generally flowing toward the pond located on the southeastern portion of the property between the Site and neighboring Whitehurst property.
- Headspace VOCs were detected in MW-3 only, with a peak PID concentration of 2.0 parts per million (ppm).
- Ground water contamination was not reported above laboratory method detection limits in the five monitoring wells (MW-1 through MW-5).
- The existing monitoring well array appears to adequately characterize subsurface conditions at the Site.

4.0 Sensitive Receptor Survey

Potential sensitive receptors identified during the Site Investigation include surficial soils and ground water in the immediate vicinity of the spill area; the Herber residence; several area drinking water supplies, and two ponds located approximately 200 feet southeast of the spill area. The Site and surrounding residences are served by either a private drilled well or shallow spring. **Figure 2** depicts the surrounding residences and their approximate drilled well or shallow spring locations.



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LAG assessed the indoor airspace of the Herber Residence during the April 6, 2006 spill response and subsequent days following for the next two weeks. PID readings of 25 parts per million were detected with a PID during initial screening on April 6, 2006. LAG returned to the Site the following day to install air purifying units inside and underneath the residence. After two weeks of operation, PID levels had dropped to background (BG) levels. A residual petroleum odor was still present inside the residence after operation of the air purify units. LAG coordinated with a contractor to setup and run an ozone machine to chemically oxidize residual fuel odors from the carpeting and upholstery inside the residence. After the ozone fog was complete, there was no olfactory evidence of petroleum inside the residence.

The Herber residence drilled bedrock well was sampled on April 7, 2006 during the initial spill response. Mr. Guy Loso, a concerned resident to the south of the Site contacted LAG on April 24, 2006 and wished to have his spring and pond sampled. LAG sampled the Loso spring and pond on April 25, 2006. As part of the sensitive receptor survey, 6 additional area drinking water supplies were sampled on May 1, 2006. The Hults, Whitehurst, Shackett, Harthshorn, Walch, and Baird residences were sampled. Whitehurst, Shackett, and Harthshorn obtain their potable water from drilled bedrock wells. Hults, Walch, and Baird obtain their water from shallow springs. The Baird residence is served their water from Loso spring #2. Laboratory analytical reports for drinking water samples collected are presented in **Appendix D**. No VOCs were reported above method detection limits in any of the drinking water supplies sampled.

A visual survey of the Pond between the Site and the Whitehurst residence, and the Loso pond was conducted during the April/May 2006 investigation. No visual evidence of petroleum sheens or contamination was noted along the edge of either surface water body. A surface water sample was collected from the Loso pond on April 25, 2006. The laboratory analytical report is presented in **Appendix E**. No VOCs were reported above method detection limits in the surface water sample from the Loso pond.

5.0 Soil Stockpile Transport and Disposal

Approximately 80 cubic yards of soil were excavated and temporarily stockpiled and encapsulated with polyethylene sheeting during the initial spill response in April 2006. The stockpile location is noted on **Figure 3**. The soil stockpile was covered with two layers of plastic sheeting, and constructed in accordance with the VDEC regulations for stockpiling petroleum contaminated soil and debris.

Since the area use is residential, and numerous sensitive receptors exist in the immediate vicinity of the Site (i.e. surface water bodies, shallow drinking water springs), it was LAG's recommendation that soils be immediately transported for thermal destruction and recycling. The VDEC approved the transport and disposal of the stockpiled soils in a work plan approval letter dated May 1, 2006.



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LAG contracted Fabian Earthmoving to load soils into dump trailers provided by ESMI of New York. The soils were transported by ESMI to their Fort Edward facility for thermal desorption. The quantity of soils received at the ESMI facility equaled 82.37 tons. Documentation for the transportation and certificate of treatment of the contaminated soils is included in **Appendix F**.

After the soils were loaded, Fabian Earthmoving conducted Site restoration activities, including spreading topsoil, seeding, and mulching the affected areas.

6.0 Conceptual Model

Approximately 100 gallons of kerosene were released from the AST on the north side of the residence on April 6, 2006. A significant rain storm, snow melt, frost, and very poor drainage on the north side of the residence kept the free product mobilized and spread over a large area. However, the presence of frost and fine-grained soil prevented penetration below grade. The lack of frost in the area off the northeast corner of the residence allowed contamination to penetrate to the saturated zone in this one location. The large amount of surface water present along the curtain drain on the north side of the residence prevented migration of product beneath the slab. Water was noted flowing from underneath the concrete pad into the soil excavation. This suggests there is significant hydraulic pressure underneath the concrete slab from surface water runoff in the spring of the year. No product came from the locations where water exited from underneath the slab in the release area or any other discharge point on the east end or south side of the concrete slab.

It appears that spill response and cleanup activities conducted in April 2006 have removed all or the vast majority of kerosene contamination at the Site. This significant soil removal effort, especially in the area off the southeast corner of the residence where a small amount of product was noted on the water table surface, helped to mitigate dissolution of petroleum contamination of the ground water.

The Site is underlain by dense clay basil till, which is present from 2 to at least 13 feet below grade across the Site. Typical travel rates for petroleum contaminants or product in these types of soils is very slow, and usually doesn't travel far from the source. Till soils in Vermont usually help mitigate migration of petroleum contaminants in the saturated zone.

Based on the very slow recharge of the ground water monitoring wells during sampling, hydraulic conductivities at the Site are assumed to be very low. Typical ground water flow rates in this type of geology range from 0.134 to 0.134×10^{-5} feet/day. Based on the density of soils observed during monitoring well installation, and the very poor recharge in the wells during water quality sampling, LAG would expect the actual hydraulic conductivity values to be on the lower end of this range. The relatively shallow depth of overburden contamination, localized area of impact, and the fact that



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all or the majority of contaminated soils have been removed, impact to the underlying bedrock is mostly likely not occurring beneath the Site.

7.0 Conclusions and Recommendations

Based on the current information, the following conclusions and recommendations are made:

- Approximately 100 gallons of kerosene were released from the AST.
- There appears to have been little to no migration of contamination away from the area of spill excavation, based on soil borings conducted at the Site in May 2006 after spill cleanup activities.
- Dissolved phase contamination is not present in ground water beneath the affected spill areas or downgradient of the spill areas.
- It appears that excavation of approximately 80 cubic yards of contaminated soil conducted in response to the spill in April 2006, has mitigated impact to ground water beneath the Site.
- Based on ground water flow estimates calculated from the May 18, 2006 monitoring round, and the fact that no dissolved phase contamination was reported in downgradient monitoring wells MW-4 and MW-5, the threat to sensitive receptors downgradient of the Site (Herber and Loso Ponds and the Loso Springs) is considered minimal.
- LAG recommends a confirmatory sampling round to be conducted in August 2006 to coincide with a lower water table. The ground water monitoring round will consist of monitoring well headspace screening, ground water level gauging, ground water quality sample collection and laboratory analysis; surface water sampling from the Herber and Loso ponds; water quality sampling of the Herber supply, Whitehurst supply, and Loso Spring, and a summary report on the findings. Samples will be analyzed for petroleum related VOCs per EPA Method 8021B.

Tables

- 1) Groundwater/Free Product Levels**
- 2) Photoionization Detector Assay Results**
- 3) Water Quality Summary Data**

Project: Herber Residence
Location: Hubbardton, Vermont
LAG Project #06040

Table 1
VDEC Site #2006-3511

Ground Water Elevation/Product Thickness (feet)

Data Point	TOC	5-18-06	
MW-1	508.70	506.80	
MW-2	506.23	503.46	
MW-3	508.04	503.29	
MW-4	502.84	502.68	
MW-5	500.92	498.52	

NOTES:
1 - Elevation datum assumed
2 - Reference elevation is elevation of top of PVC well casing
Dark Grey - Inaccessible
Light Grey - Dry

Project: Herber Residence
Location: Hubbardton, Vermont
LAG Project #06040

Table 2
VDEC Site #2006-3511

Photoionization Readings (PID - ppm)

Data Point	5-18-06								
MW-1	BG								
MW-2	BG								
MW-3	2.5								
MW-4	BG								
MW-5	BG								

NOTES:
BG - Background
SL - Saturated Lamp
Dark Grey - Inaccessible
Light Grey - Well not sampled

Ground Water Quality Results (ppb)

Data Point	Compound	*GQES	05/18/06				
MW-1	Benzene	5	<1				
	Toluene	1,000	<1				
	Ethylbenzene	700	<1				
	Xylenes	10,000	<2				
	1,3,5-Trimethylbenzene	4	<1				
	1,2,4-Trimethylbenzene	5	<1				
	Naphthalene	20	<2				
	MTBE	40	<2				
	BTEX		<5				
	BTEX + MTBE		<7				
TPH DRO (ppm)		<0.4					
MW-2	Benzene	5	<1				
	Toluene	1,000	<1				
	Ethylbenzene	700	<1				
	Xylenes	10,000	<2				
	1,3,5-Trimethylbenzene	4	<1				
	1,2,4-Trimethylbenzene	5	<1				
	Naphthalene	20	<2				
	MTBE	40	<2				
	BTEX		<5				
	BTEX + MTBE		<7				
TPH DRO (ppm)		<0.4					
MW-3	Benzene	5	<1				
	Toluene	1,000	<1				
	Ethylbenzene	700	<1				
	Xylenes	10,000	<2				
	1,3,5-Trimethylbenzene	4	<1				
	1,2,4-Trimethylbenzene	5	<1				
	Naphthalene	20	<2				
	MTBE	40	<2				
	BTEX		<5				
	BTEX + MTBE		<7				
TPH DRO (ppm)		<0.4					

NOTES:

< - Contaminant not detected at specified detection limit
 Light grey cell = constituent exceeds Vermont, Ground Water Quality Enforcement Standards (GQES).
 Bold = Detection
 TPH concentrations quantified in parts per million (ppm).

Ground Water Quality Results (ppb)

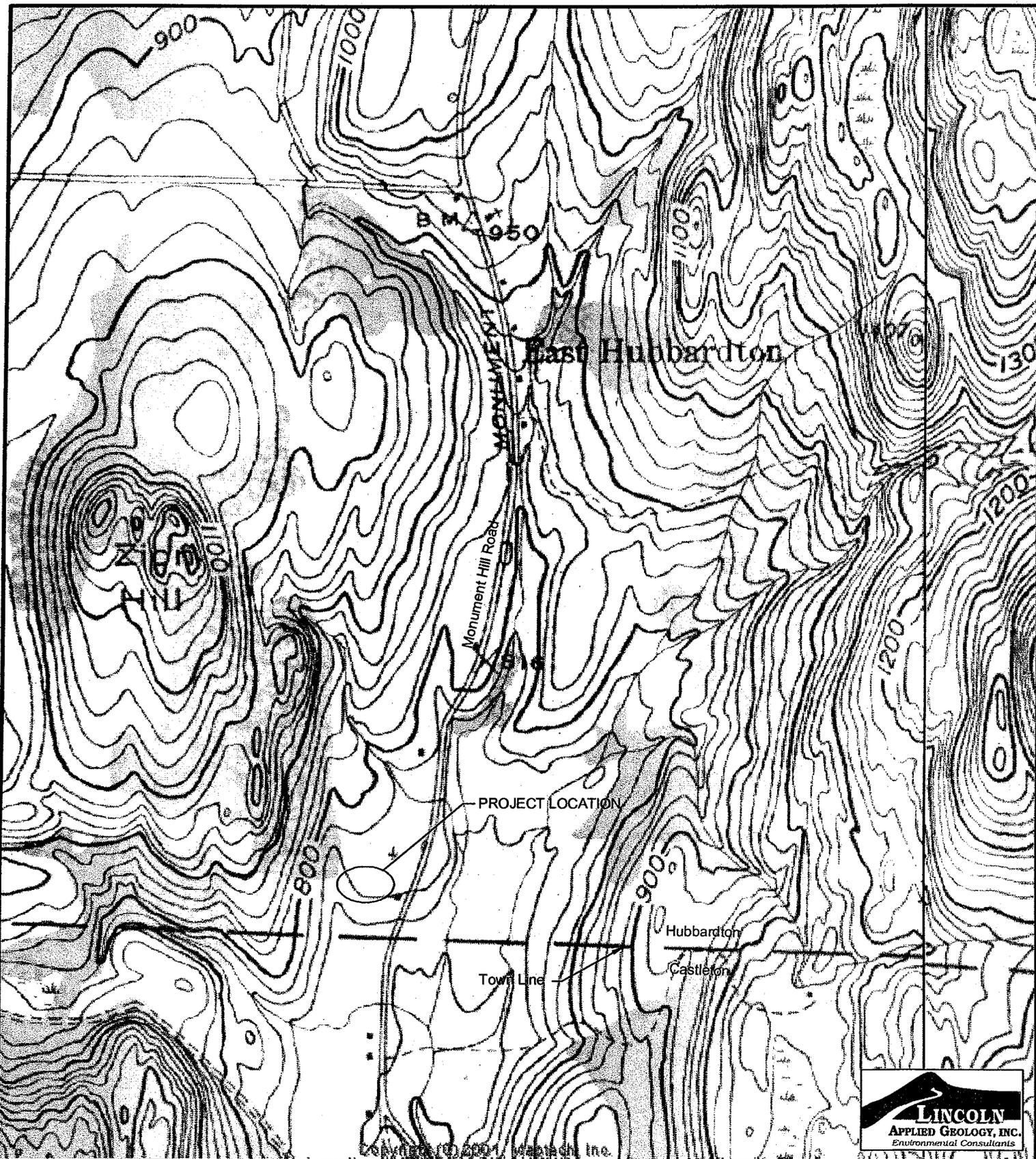
Data Point	Compound	*GQES	05/18/06				
MW-4	Benzene	5	<1				
	Toluene	1,000	<1				
	Ethylbenzene	700	<1				
	Xylenes	10,000	<2				
	1,3,5-Trimethylbenzene	4	<1				
	1,2,4-Trimethylbenzene	5	<1				
	Naphthalene	20	<2				
	MTBE	40	<2				
	BTEX		<5				
	BTEX + MTBE		<7				
TPH DRO (ppm)		<0.4					
MW-4	Benzene	5	<1				
	Toluene	1,000	<1				
	Ethylbenzene	700	<1				
	Xylenes	10,000	<2				
	1,3,5-Trimethylbenzene	4	<1				
	1,2,4-Trimethylbenzene	5	<1				
	Naphthalene	20	<2				
	MTBE	40	<2				
	BTEX		<5				
	BTEX + MTBE		<7				
TPH DRO (ppm)		<0.4					
Trip Blank	Benzene	5	<1				
	Toluene	1,000	<1				
	Ethylbenzene	700	<1				
	Xylenes	10,000	<2				
	1,3,5-Trimethylbenzene	4	<1				
	1,2,4-Trimethylbenzene	5	<1				
	Naphthalene	20	<2				
	MTBE	40	<2				
BTEX		<5					

NOTES:

- < - Contaminant not detected at specified detection limit
- Light grey cell = constituent exceeds Vermont, Ground Water Quality Enforcement Standards (GQES).
- Bold = Detection
- TPH concentrations quantified in parts per million (ppm).

Figures

- 1) General Location Map**
- 2) Area Map**
- 3) Detailed Site map**
- 4) Groundwater Elevations and Water Quality
Summary Map for May 18, 2006**



F:\CLIENTS\2006\06040\CA



GRAPHIC SCALE IN FEET
 1" = 1000'±

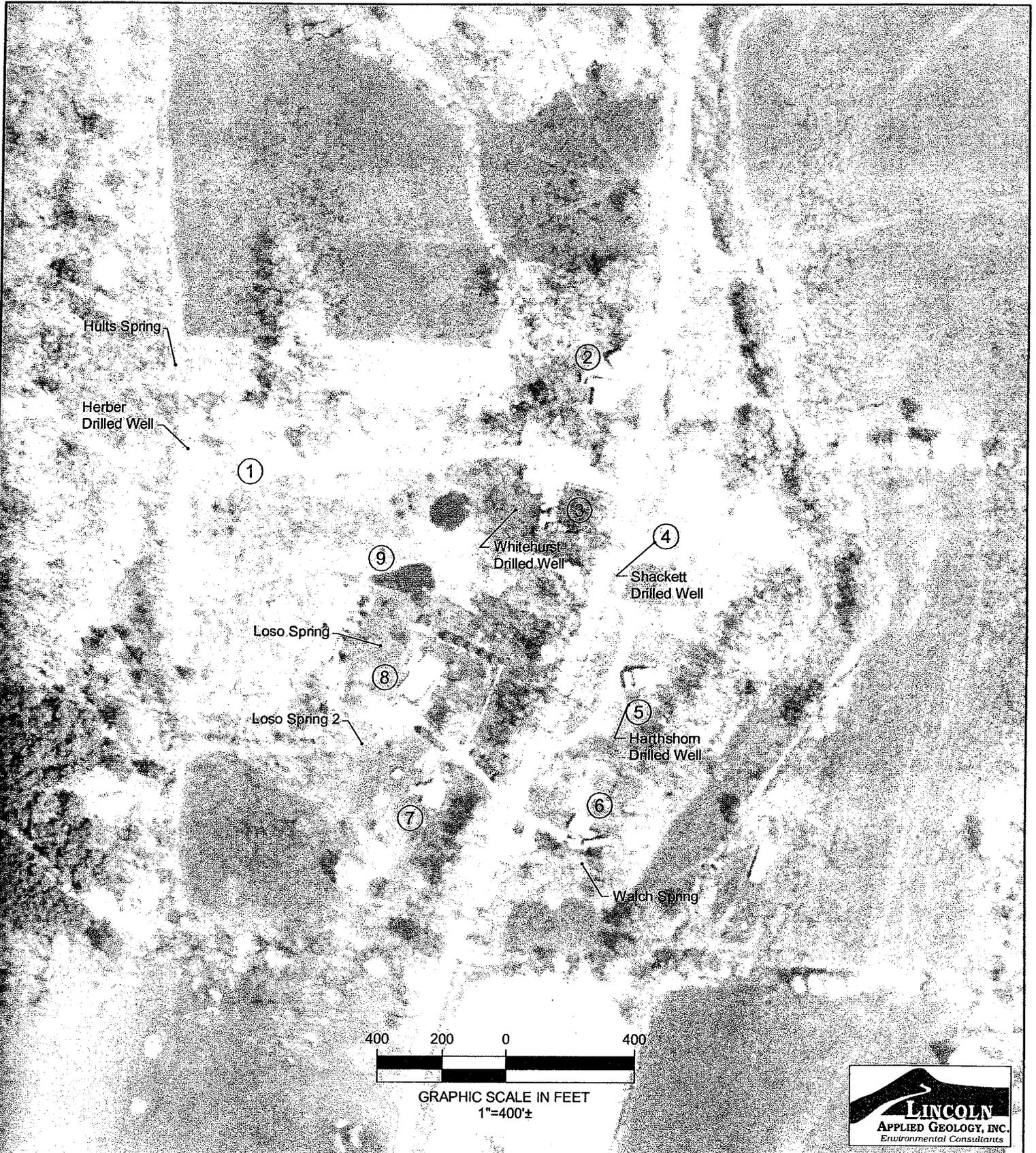
Herber Residence
 6826 Monument Hill Road
 Hubbardton, Vermont

General Location Map

LAG PROJECT #
 06040

LAG PROJECT TYPE
 Site Contamination

Figure 1



- ① Herber Residence
- ② Hults Residence
- ③ Whitehurst Residence
- ④ Shackett Residence
- ⑤ Harthshorn Residence
- ⑥ Walch Residence
- ⑦ Baird Residence
- ⑧ Loso Residence
- ⑨ Loso Pond

NOTE: All Well Locations Are Approximate

Herber Residence 6826 Monument Hill Road Hubbardton, Vermont	
Area Map	
LAG PROJECT # 06040	LAG PROJECT TYPE SITE CONTAMINATION

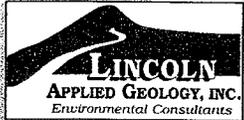
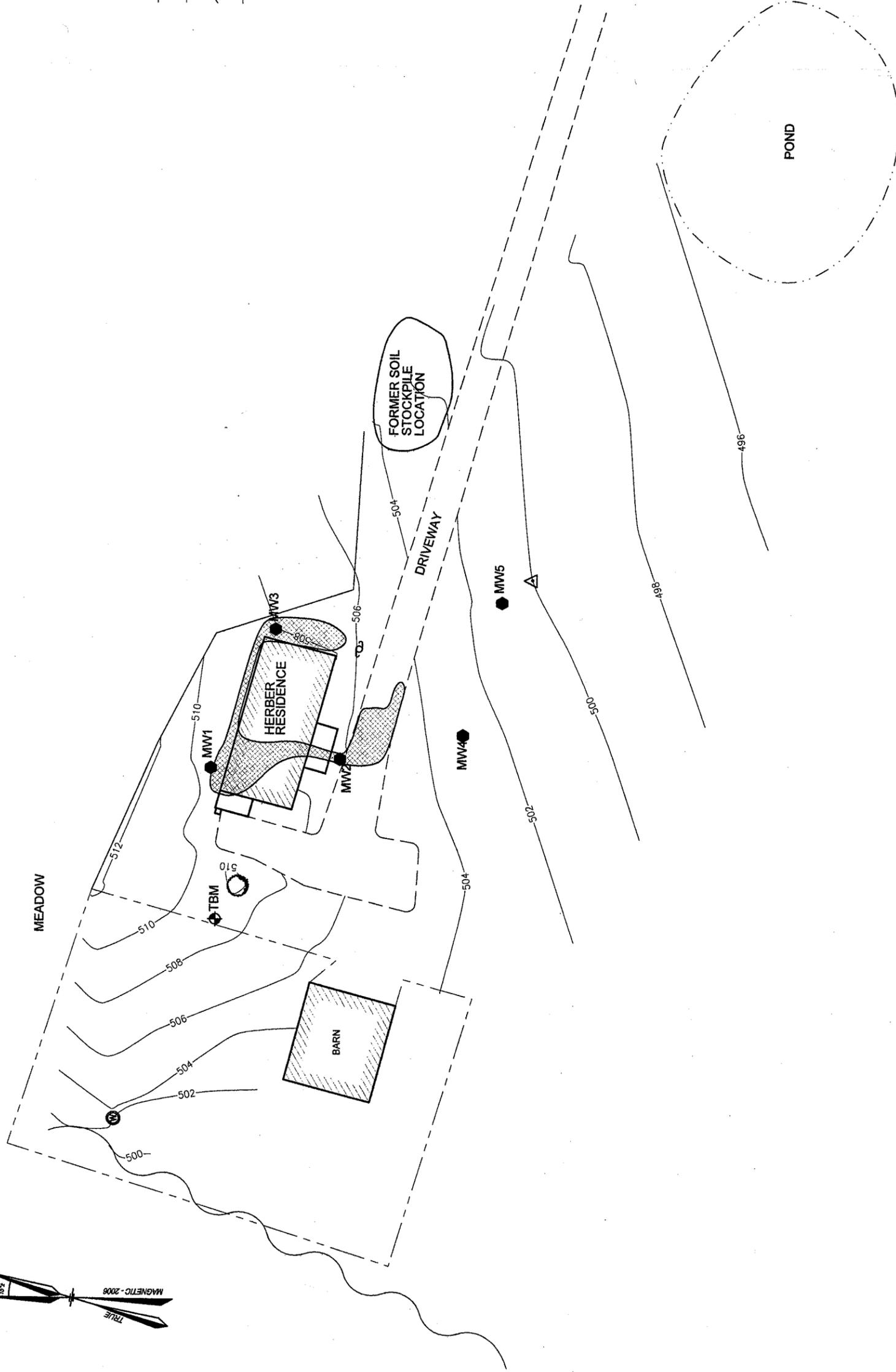


Figure 2



LEGEND

	TRAVERSE STATION
	BENCHMARK
	UTILITY POLE
	MONITORING WELL
	DRILLED WELL
	24" MAPLE TREE
	TREELINE
	FENCELINE
	STREAM
	GROUND CONTOUR
	SPILL AREA



GRAPHIC SCALE
(IN FEET)



1" = 40'



Figure 3	
Herber Residence 6826 Monument Hill Road Hubbardton, Vermont	
Detailed Site Map	
LAG PROJECT # 06040	LAG PROJECT TYPE Site Contamination



LEGEND

- ▲ TRAVERSE STATION
- ◆ BENCHMARK
- UTILITY POLE
- MONITORING WELL
- ⊙ DRILLED WELL
- 24" MAPLE TREE
- TREELINE
- - - FENCELINE
- ~ ~ ~ STREAM
- GROUND CONTOUR
- <5,<2 BTEX:MTBE CONTAMINANT CONCENTRATION (PPB)
- 500 GROUND WATER CONTOUR
- GROUND WATER FLOW DIRECTION

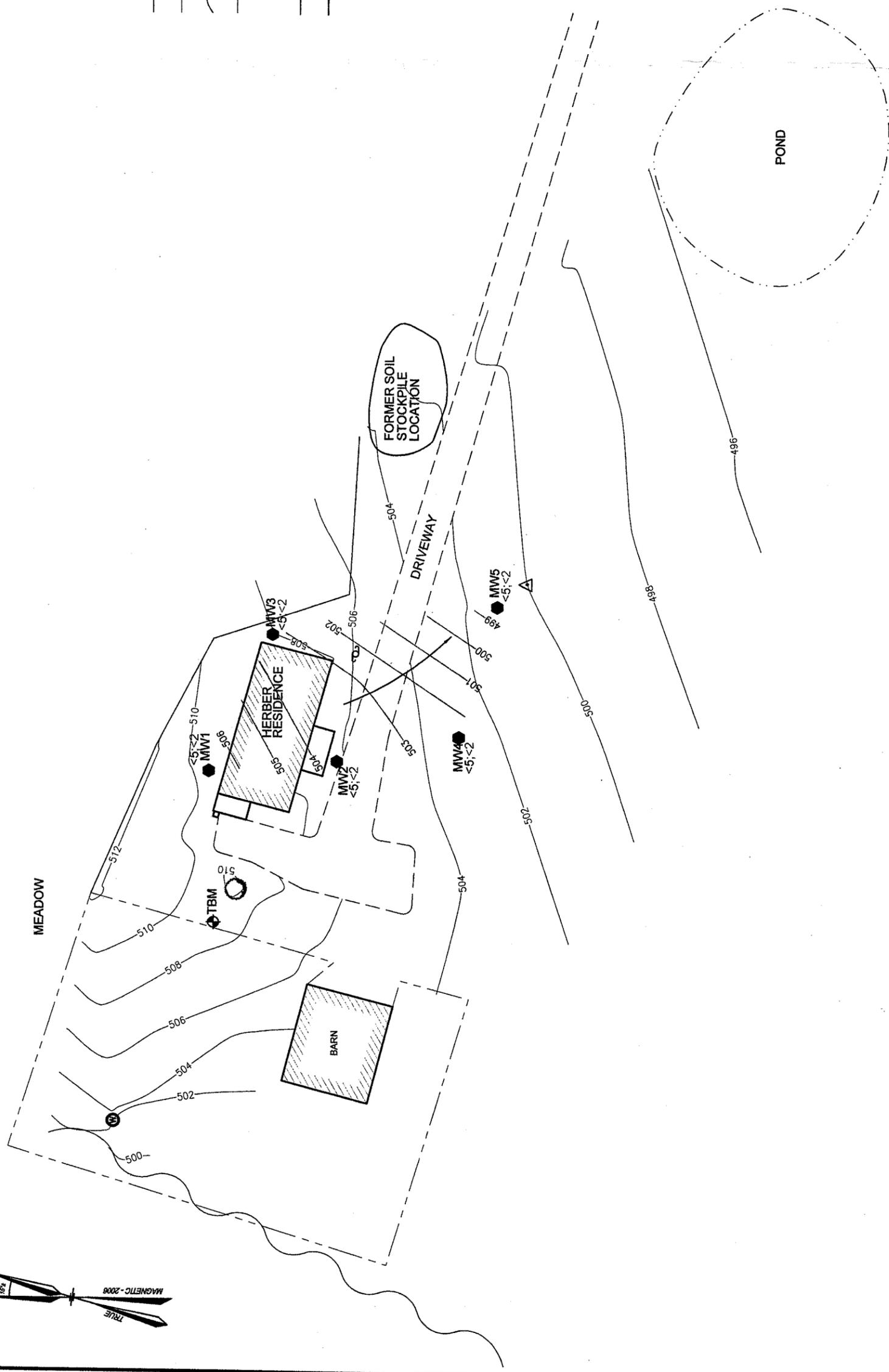


Figure 4	
Herber Residence 6826 Monument Hill Road Hubbardton, Vermont	
Ground Water Contour and Water Quality Summary Map for May 18, 2006	
LAG PROJECT # 06040	LAG PROJECT TYPE Site Contamination



Appendix A

Boring Logs & Monitoring Well Construction Diagrams

May 4, 2006

WELL LOG

WELL: MW-1
LOCATION: Herber Residence, Castleton, VT -- North side of residence, AST release area
DRILLER: Speciality Drilling & Investigation, Burlington, VT
HYDROGEOLOGIST: Dagan Murray, Lincoln Applied Geology, Inc.
DATE: May 4, 2006

Soils Description: (BG = Background [], SL = Saturated Lamp [>500], ppm = Parts Per Million)

<u>Depth</u>	<u>Description</u>	<u>PID (ppm)</u>
0.0' - 4.0'	Gravelly Clay (CL). Olive-brown till. Dry. No hydrocarbon odor.	BG
4.0' - 7.0'	Gravelly Clay (CL). Olive-brown till. Wet layer @ 6.75'. No hydrocarbon odor.	BG
	Refusal at 7.0'	

Well Construction:

Bottom of Boring: 7.0'
Bottom of Well: 7.0'
Well Screen: 5.0' (2.0' - 7.0') of 1.5" diameter PVC (0.010") slotted screen
Solid Riser: 1.0' (1.0' - 2.0') of 1.5" diameter PVC solid riser
Sand Pack: 6.0' (1.0' - 7.0') of #0 sand
Bentonite Seal: 0.7' (0.3' - 1.0') of bentonite chips
Backfill: Native to grade.
Well Box: Flush with lawn grade.

WELL LOG

WELL: MW-2
LOCATION: Herber Residence, Castleton, VT, - South side of residence, adjacent to front steps.
DRILLER: Specialty Drilling & Investigation, Burlington, Vermont
HYDROGEOLOGIST: Dagan Murray, Lincoln Applied Geology, Inc.
DATE: May 4, 2006

Soils Description: (BG = Background [], SL = Saturated Lamp [>500], ppm = Parts Per Million)

<u>Depth</u>	<u>Description</u>	<u>PID (ppm)</u>
0.0' - 3.0'	Poorly Graded Gravel (GP). Crushed stone fill. Wet @ 2.5'. No hydrocarbon odor.	BG
3.0' - 4.0'	Gravelly Clay (CL). Olive-brown till. Dry. No hydrocarbon odor.	BG
4.0' - 8.0'	Same as above.	BG
8.0' - 10.0'	Same as above.	BG
Refusal at 10'.		

Well Construction:

Bottom of Boring: 10.0'
Bottom of Well: 8.5'
Well Screen: 7.0' (1.5' - 8.5') of 1.5" diameter Sch. 40 (0.010") slotted screen
Solid Riser: 1.0' (0.5' - 1.5') of 1.5" diameter Sch. 40 PVC solid riser
Sand Pack: 8.7' (0.8' - 8.5') of #0 sand
Bentonite Seal: 0.3' (0.5' - 0.8') of bentonite chips
Backfill: Native to grade.
Well Box: Cemented flush with grade.

WELL LOG

WELL: MW-3
LOCATION: Herber Residence, Castleton, VT - Off the southeast corner of the residence.
DRILLER: Specialty Drilling & Investigation, Burlington, VT
HYDROGEOLOGIST: Dagan Murray, Lincoln Applied Geology, Inc.
DATE: May 4, 2006

Soils Description: (BG = Background [], SL = Saturated Lamp [>500], ppm = Parts Per Million)

<u>Depth</u>	<u>Description</u>	<u>PID (ppm)</u>
0.0' - 4.0'	Poorly Graded Sand (SP). Fine sand backfill. Wet @ 4'. No hydrocarbon odor.	BG
4.0' - 6.5'	Same as above.	BG
6.5' - 8.0'	Gravelly Clay (CL). Olive-grey till. Mottling. No hydrocarbon odor.	BG
8.0' - 12.0'	Grey Clay w/ Gravel (CL). Little mottling, mostly dry. No hydrocarbon odor.	BG

Well Construction:

Bottom of Boring: 12.0'
Bottom of Well: 10.0'
Well Screen: 7.0' (3.0' - 10.0') of 1.5" diameter Sch. 40 PVC (0.010") slotted screen
Solid Riser: 2.5' (0.5' - 3.0') of 1.5" diameter Sch. 40 PVC solid riser
Sand Pack: 8.0' (2.0' - 10.0') of #0 sand
Bentonite Seal: 1.75' (0.25' - 2.0') of bentonite chips
Backfill: Native to grade
Well Box: Flush with lawn grade.

WELL LOG

WELL: MW-4
LOCATION: Herber Residence, Castleton, VT - In the lawn across the driveway to the south.
DRILLER: Specialty Drilling & Investigation, Burlington, VT
HYDROGEOLOGIST: Dagan Murray, Lincoln Applied Geology, Inc.
DATE: May 4, 2006

Soils Description: (BG = Background [], SL = Saturated Lamp [>500], ppm = Parts Per Million)

<u>Depth</u>	<u>Description</u>	<u>PID (ppm)</u>
0.0' - 2.0'	Brown Clay (CL). Clay dry, water bearing layer @ 2'. No hydrocarbon odor.	BG
2.0' - 4.0'	Gravelly Clay (CL). Dense grey till. Soils damp and mottled. No hydrocarbon odor.	BG
4.0' - 8.0'	Same as above.	BG
	Refusal at 8'.	

Well Construction:

Bottom of Boring: 8.0'
Bottom of Well: 8.0'
Well Screen: 7.0' (1.0' - 8.0') of 1.5" diameter Sch. 40 (0.010") slotted screen
Solid Riser: 0.5' (0.5' - 1.0') of 1.5" diameter Sch. 40 PVC solid riser
Sand Pack: 7.3' (0.7' - 8.0') of #0 sand
Bentonite Seal: 0.2' (0.5' - 0.7') of bentonite chips
Backfill: Native to grade
Well Box: Cemented flush with grade.

WELL LOG

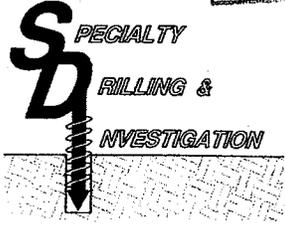
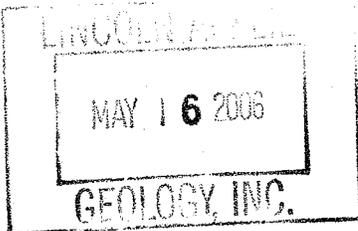
WELL: MW-5
LOCATION: Herber Residence, Castleton, VT - In the lawn across the driveway to the southeast.
DRILLER: Specialty Drilling & Investigation, Burlington, VT
HYDROGEOLOGIST: Dagan Murray, Lincoln Applied Geology, Inc.
DATE: May 4, 2006

Soils Description: (BG = Background [], SL = Saturated Lamp [>500], ppm = Parts Per Million)

<u>Depth</u>	<u>Description</u>	<u>PID (ppm)</u>
0.0' - 4.0'	Silty Sand (SM). Dry. No hydrocarbon odor.	BG
4.0' - 8.0'	Gravelly Silt (ML). Olive-grey dense till. Dry. No hydrocarbon odor.	BG
8.0' - 11.0'	Same as above. Wet and mottled from 10 - 11'. No hydrocarbon odor.	BG
Refusal at 11'.		

Well Construction:

Bottom of Boring: 11.0'
Bottom of Well: 9.0'
Well Screen: 7.8' (1.2' - 9.0') of 1.5" diameter Sch. 40 PVC (0.010") slotted screen
Solid Riser: 2.5' (0.25' - 1.2') of 1.5" diameter Sch. 40 PVC solid riser
Sand Pack: 8.2' (0.8' - 9.0') of #0 sand
Bentonite Seal: 0.55' (0.25' - 0.8') of bentonite chips
Backfill: Native to grade
Well Box: Cemented flush with grade.



P.O. BOX 4503
 BURLINGTON, VT
 05406-4503
 T: 802-658-0820
 F: 802-860-1014

BORING NO. MW-1

PROJECT NAME: S/LAG HUBBARDTON
 SDI PROJECT NO.:
 PROJECT LOCATION: 6826 MONUMENT HILL ROAD, HUBBARDTON, VT
 LATITUDE: LONGITUDE:
 SHEET 1 OF 1

SOIL BORING LOG

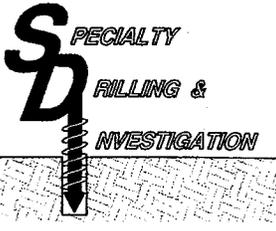
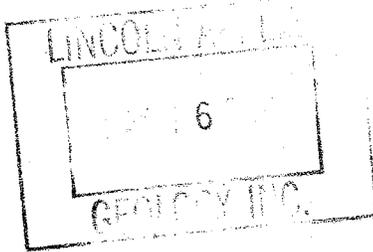
BORING LOCATION SOURCE AREA	
DATE AND TIME STARTED: 5/4/06 AT 8:15 AM	RIG HOURS METER START: 4522
FOREMAN: CHRIS ALDRICH	H & N STAFF: CHRIS ALDRICH & MATTHEW MILLER
DATE AND TIME COMPLETED: 5/4/06 AT 10 AM	RIG HOURS METER END: 4523

SAMPLING METHOD: SPLIT SPOON	<u>DIRECT PUSH</u>	CUTTINGS	HAND AUGER
SIZE: 24"	HAMMER: 140 LB.	FALL: 30"	

NO.	REC. (FT)	DEPTH (FT)	BLOWS	SAMPLE DESCRIPTION	STRATA CHANGE	PID
1	4	0-4		6" CRUSHED STONE .5'-4' DENSE CLAYEY TILL		
2	3	4-7		AA, PROBE REFUSAL AT 7', WET LENSES AT 6'-6.5'		
3	2	8-10				
				SET 1.5" PVC WELL TO 7'		
7						

WELL CONSTRUCTION DETAILS

PVC Screen:	1.5 " diameter:	0.02 " slot	5 ' Sections	Set from:	7' to 2'
PVC Riser:	1.5 " diameter:	5 ' Sections		Set from:	2' to 3'
Filter Sock:					3 ' Stick Up
Sand Pack:	7' to 1'	(.5 bags)			
Bentonite Seal:	1' to 0'	(bag)	Cap		
Grout Seal:		(bags)	1 Plug		
Well Finish:	X flush	Guard:	1 Gripper	Native Backfill:	' to '
			1 BW Point		



P.O. BOX 4503
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BORING NO. MW-2

PROJECT NAME: S/LAG HUBBARDTON
 SDI PROJECT NO.:
 PROJECT LOCATION: 6826 MONUMENT HILL ROAD, HUBBARDTON, VT
 LATITUDE: LONGITUDE:
 SHEET 1 OF 1

SOIL BORING LOG

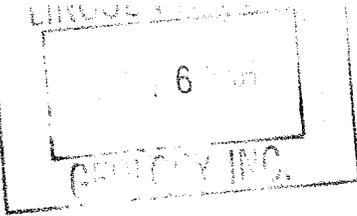
BORING LOCATION DOWN GRADIENT OF SPILL IN FRONT OF FRONT STEPS
 DATE AND TIME STARTED: 5/4/06 AT 10:15 AM RIG HOURS METER START: 4523
 FOREMAN: CHRIS ALDRICH H & N STAFF: CHRIS ALDRICH & MATTHEW MILLER
 DATE AND TIME COMPLETED: 5/4/06 AT 11:30 AM RIG HOURS METER END: 4524.3

SAMPLING METHOD: SPLIT SPOON DIRECT PUSH CUTTINGS HAND AUGER
 SIZE: 24" HAMMER: 140 LB. FALL: 30"

NO.	REC. (FT)	DEPTH (FT)	BLOWS	SAMPLE DESCRIPTION	STRATA CHANGE	PID
1	1	0-4		3" CRUSHED GRAVEL (RED), THEN WET GRAY CLAYEY TILL		
2	4	4-8		AA, GRAY CLAYEY TILL		
3	2	8-10		AA, PROBE REFUSAL AT 10'		
				SET 1.5" PVC WELL TO 8.5'		
7						

WELL CONSTRUCTION DETAILS

PVC Screen: 1.5" diameter: 0.02" slot 7' Sections Set from: 8.5' to 1.5'
 PVC Riser: 1.5" diameter: 1' Sections Set from: 1.5' to 0'
 Filter Sock: _____ -0.5" Stick Up
 Sand Pack: 8.5' to 8" (.5 bags)
 Bentonite Seal: 8" to 2" (bag) 1 Cap
 Grout Seal: _____ (bags) Plug
 Well Finish: X flush Guard: _____ 1 Gripper Native Backfill: ' to '
 1 BW Point



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BORING NO. MW-3

PROJECT NAME: S/LAG HUBBARDTON
 SDI PROJECT NO.:
 PROJECT LOCATION: 6826 MONUMENT HILL ROAD, HUBBARDTON, VT
 LATITUDE: LONGITUDE:
 SHEET 1 OF 1

SOIL BORING LOG

BORING LOCATION SIDE OF HOUSE

DATE AND TIME STARTED: 5/4/06 AT 12:15 PM RIG HOURS METER START: 4524.4

FOREMAN: CHRIS ALDRICH H & N STAFF: CHRIS ALDRICH & MATTHEW MILLER

DATE AND TIME COMPLETED: 5/4/06 AT 1:15 PM RIG HOURS METER END: 4525.5

SAMPLING METHOD: SPLIT SPOON DIRECT PUSH CUTTINGS HAND AUGER

SIZE: 24" HAMMER: 140 LB. FALL: 30"

NO.	REC. (FT)	DEPTH (FT)	BLOWS	SAMPLE DESCRIPTION	STRATA CHANGE	PID
1	2.8	0-4		NEW BROWN MEDIUM SAND, MOIST AT 4'		
2	3.5	4-8		AA TO 7'-7.5' THEN DENSE GRAY CLAYEY TILL		
3	4	8-12		AA		
				SET 1.5" PVC WELL TO 10'		
7						

WELL CONSTRUCTION DETAILS

PVC Screen: 1.5 " diameter: 0.02 " slot 7 Sections Set from: 10' to 3'

PVC Riser: 1.5 " diameter: 3.5 " Sections Set from: 3' to +.5"

Filter Sock: _____ 6 " Stick Up

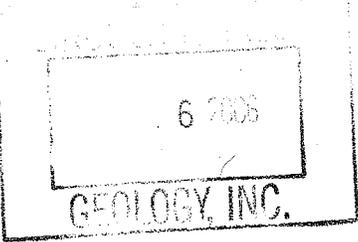
Sand Pack: 10' to 2' (.5 bags)

Bentonite Seal: 2' to 0' (bag) 1 Cap

Grout Seal: _____ (bags) Plug

Well Finish: _____ flush Guard: _____ 1 Gripper Native Backfill: _____ ' to _____

1 BW Point



P.O. BOX 4503
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BORING NO. MW-5

PROJECT NAME: S/LAG HUBBARDTON
 SDI PROJECT NO.:
 PROJECT LOCATION: 6826 MONUMENT HILL ROAD, HUBBARDTON, VT
 LATITUDE: LONGITUDE:
 SHEET 1 OF 1

SOIL BORING LOG

BORING LOCATION ON LAWN OPPOSITE CORNER OF HOUSE WHERE POWER COME:
 DATE AND TIME STARTED: 5/4/06 AT 2:30 PM RIG HOURS METER START: 4526.8
 FOREMAN: CHRIS ALDRICH H & N STAFF: CHRIS ALDRICH & MATTHEW MILLER
 DATE AND TIME COMPLETED: 5/4/06 AT 4:15 PM RIG HOURS METER END: 4528.3

SAMPLING METHOD: SPLIT SPOON DIRECT PUSH CUTTINGS HAND AUGER
 SIZE: 24" HAMMER: 140 LB. FALL: 30"

NO.	REC. (FT)	DEPTH (FT)	BLOWS	SAMPLE DESCRIPTION	STRATA CHANGE	PID
1	1	0-4		0-1' TOPSOIL AND BROWN LOAM		
2	2.8	4-8		4'-5' BROWN LOAMY SILTS 5'-8' GRAY CLAYEY TILL		
3	0.9	8-11		WET CLAYEY TILL		
				SET 1.5" PVC WELL TO 8.8'		
7						

WELL CONSTRUCTION DETAILS

PVC Screen: 1.5 " diameter: 0.02 " slot 8' Sections Set from: 8.8' to 1'
 PVC Riser: 1.5 " diameter: 6 " Sections Set from: 1' to 4'
 Filter Sock: -3 " Stick Up
 Sand Pack: 8.8' to 8" (1/2 bag)
 Bentonite Seal: 8' to 3' (bag) 1 Cap
 Grout Seal: (bags) Plug
 Well Finish: X flush Guard: 1 Gripper Native Backfill: ' to '
 1 BW Point

Appendix B

Raw Data Field Notes

Herber Residence 4/6/06

7:00-8:15 Prep & load vehicle

8:15-9:15 Travel LAG to Hubbardton

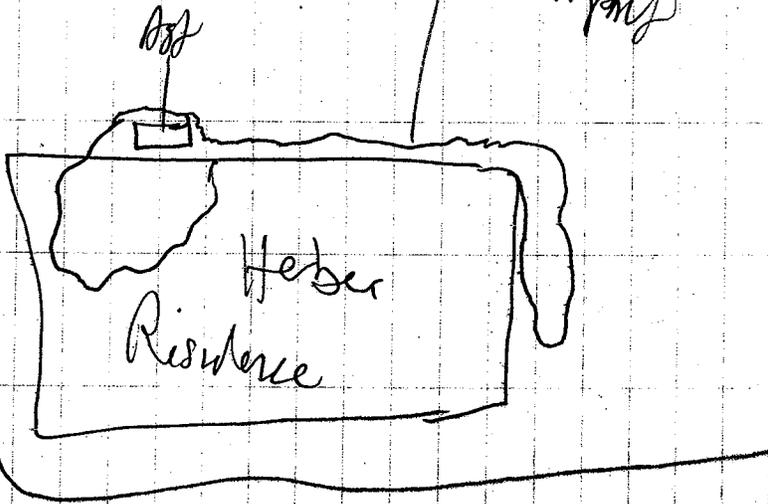
9:15 on-site. Met Shawn Galvin
& discussed situation. He thinks
~ 75-125 gallons of fuel was
released. Fuel is underneath
trailer on the slab. Water is
on the ground surface. Strong
fuel oil odor.

10:00 Fabian on-site

TW

atamps

Area of Impact



Site Sketch

4/16/16

* ~~POD~~ Readings Miller's residence
 range from 19-25 ppm

Sample	Depth	Reading
SS-1	1'	10.4 ppm
SS-2	1.5'	165
SS-3	2'	215
SS-4	2.5'	110
SS-5	6"	0.0
SS-6	6"	480
SS-7	1'	102

Residence

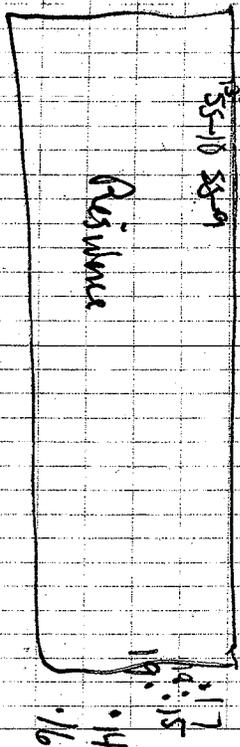
SS-5, SS-7, SS-4, SS-2, SS-1, SS-7

↑ N

Herber Residence 4/16/06

Product found down curtain drain
around north side of the trailer to
the east of ground on the east side
of the trailer. Product appeared to
roll on the east side of the residence
w/ contamination down at least 2'.
No impact appears to be below 6" along
the curtain drain as the ground is still
frozen in that area.

N
Herber Residence 4/16/06



Sample	Depth	Location
SS-8	6"	0.0
SS-9	6"	0.0
SS-10	6"	100.0 ppm
SS-11	1'	8.6 ppm
SS-12	1'	0.0
SS-13	3'	0.0
SS-14	3'	1.0
SS-15	2'	7.5 ppm / 165
SS-16	3.5'	0.0
SS-17	2'	281
SS-18	2'	321
SS-19	2'	0.0

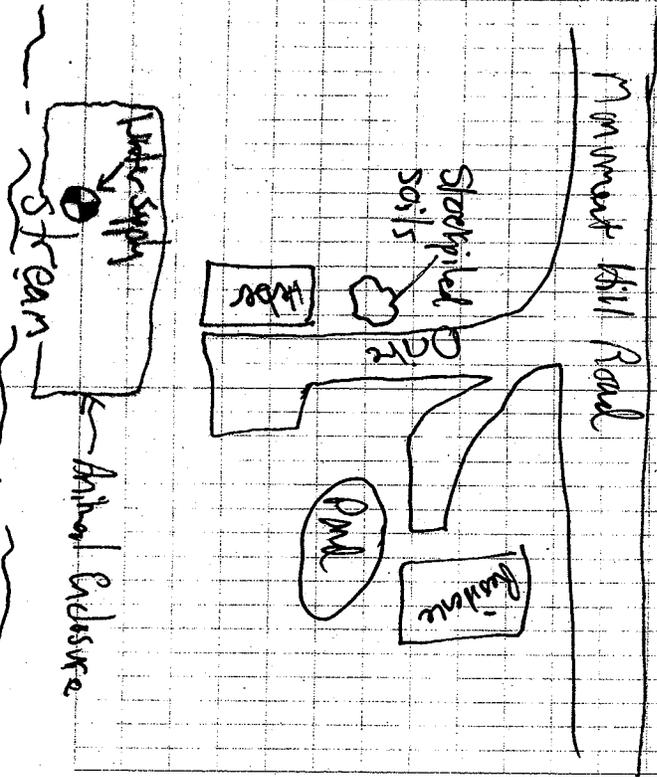
Herber Residence 4/6/80

- Picked up all the salvaged Sinks & undermount the tanks.
- Put Air purifier in the house & turned on @ 14:30
- Majority of the product appears to have been soaked up by the beams & rods that Mr. Galka put underneath trailer.
- Collected (2) Composite Soil Samples from the bottom of the excavation on the east side of the residence.
 - CS-1 Collected @ 3.5'
 - CS-2 Collected @ 9.5'

Herber Residence 4/6/80

Off-site @ 15:10
 Travel 15:10 - 16:15
 Unload tanks 16:15 - 17:00
 100 miles present record

← N
 Site Map



#66811 4/7/06 Huber Residence

7:45-9:00 Mobilize/prepare

9:00-9:45 Travel

9:45 stopped by Cahill residence

& picked up other air purifying machines. Kelly Screened basement

of P&D & obtained Background readings of 0.3 to 0.4 ppm

9:45-10:30 Travel to Hubbardton

10:30 on-site @ Huber Residence

Still some odor in the air.

Some is from underneath residence

Huber Residence 4/7/06

- Screened indoor air space.

10 ppm in the hallway by the furnace
15 ppm elsewhere at the Air purifying machines.

- Installed Carbon in Air purifying unit & turned on in the house @

11:30 AM. 3-4 ppm air space reading @ 11:00

- Installed A.P.U. underneath trailer to ~~check~~ ventilate underneath trailer

- Laid out pads underneath trailer where we find more pads sitting on the surface of the parked water on the pad.

Herber Residence 4/7/06

- Noticed a stained area originating from underneath the front steps that traveled out onto the driveway & to the east. did not travel across to the lawn to the south. Appears to have moved across the top of the slab during high water. The right the spill occurred. Potentially may have discharged from underneath the pad?
- The staining was not visible on 4/6/06.
- Installed fencing around open excavation holes.
- Collected water supply samples @ B:TB on 4/7/06

Herber Residence 4/7/06

- 14:00 det - site
- 14:00 - 15:00 Travel Hubbardston to LA6
- 15:00 - 16:30 Dental Paperwork
- 16:30 - 17:00 Project Coordination
- 102 miles Project Pickups

⊙

Harber Residence

4/1/06

before
carbon
change

PID

Indoor
outdoor

BDG
B6G

PID

Indoor
outdoor

B6G
B5G

NOTES: STILL feel odor inside residence, not strong.

Pick up sorbent pads from

4/2

SS DRAWN IS FULL

Changed carbon in both
W/door/outdoor air purifying
unit

Herber Residence 4/12/06

7:00 Leave Midlbury

7:40 Arrive on-site

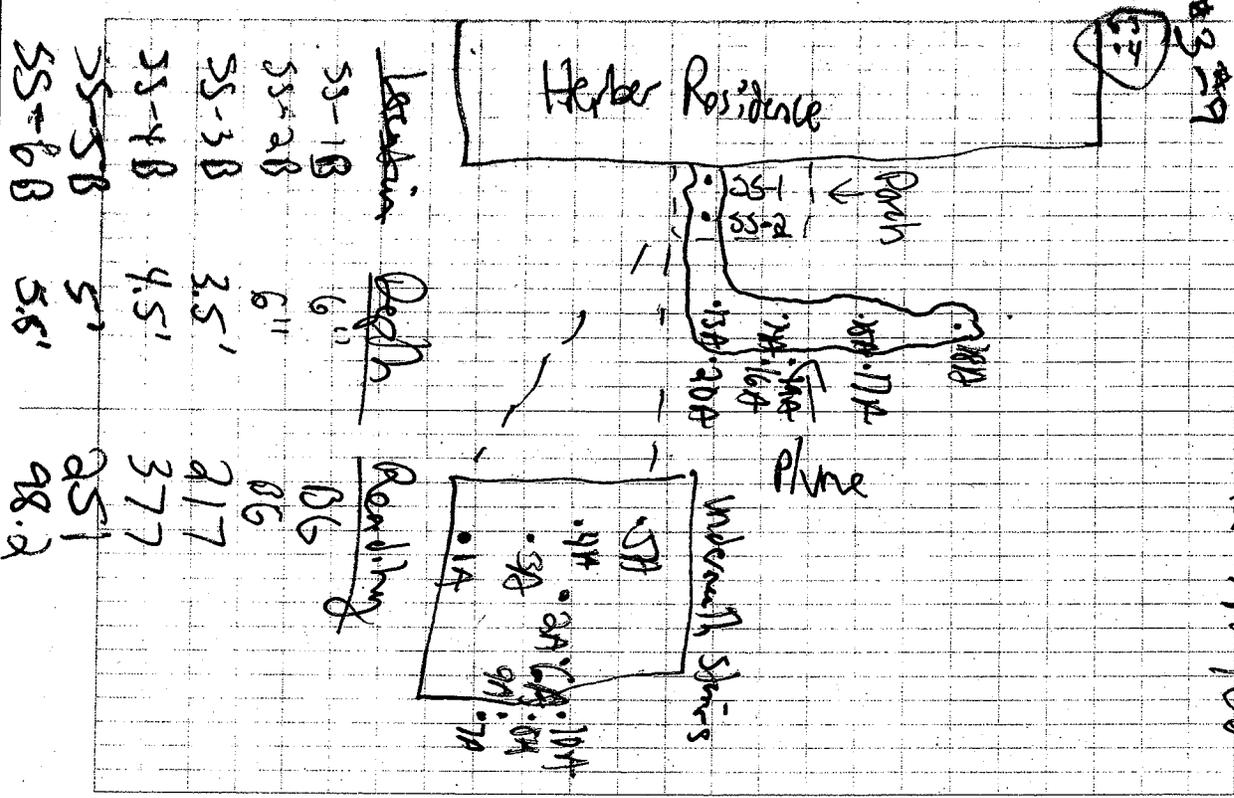
8:45 Fabric on-site

- Retrieved back lawn of individual driveway

- Dry soils out on NE corner of residence down to 6-6.5' feet.

Encountered wet soils @ 4.5' of groundwater @ 5' w/ product of slum on the surface. P&D reading above clean @ 6.5' below grade.

Z-N Herber Residence 4/12/06



Location	Depth	Reading	4/12/02
SS-7B	6'	B6	
SS-8B	6.5'	B6	
SS-9B	6.5'	B6	
SS-1A	6"	45	
SS-2A	6"	42	
SS-3A	6"	212	
SS-4A	10"	23.5	
SS-5A	1'	1.2	
SS-6A	1'	420	
SS-7A	1.5'	65	
SS-8A	1.5'	117	
SS-9A	2'	40	
SS-10A	2.5'	B6	
SS-11A	3.5'	110	
SS-12A	4'	141	

Location	Depth	Reading	4/12/02
13A	6"	B6	
14A	6"	B6	
15A	6"	B6	
16A	1.0'	340	
17A	2.6"	B6	
18A	1.6"	B6	
19A	2'	B6	
20A	2'	B6	

- Excavated down to a depth of 4' below grade at the bottom of the steps to the front porch. PSD were clean @ 4'. However, some residual soils @ 2-35" by were unable to be excavated from underneath stairs & porch w/out affecting the integrity of the porch.

Herber Residence

4/12/00

- Removed another ~40 yards of Contaminated Soil from the east end of south side of the residence. Total yards of soil removed to date is ~80 yards
- Filled excavation on NE corner w/ Clean sand.
- Dicked up remaining pads underneath residence. No residual product or water remains underneath the ~~residence~~ residence
- Air Purifying Mats still running in & underneath residence.

Herber Residence

4/12/00

- Screened indoor air space. P20 did not record any vapors above background
- Homeowner would like to use Dryden to clean carpets upholstery if possible? They do not use water stream.
- 12:06 miles South Victoria
- 15:30 leave Hobart/TN
- 16:45 arrive Lividn
- 17:00 - Dembitz

Heber Residence

4/14/06

#06040

- Screened inside residence no readings above background. NO Petroleum odor noticed inside.
- Screened underneath residence minor concentration of 1.5 ppm. Slight odor.
- Sprayed bio solve solution on area of slab impacted by petroleum.

12:15 off-site

13:00 Arrive Lab

13:30 - 14:15 Demos/paperwork

102 miles SW of Vernalis

Hudson Road 4/5/56

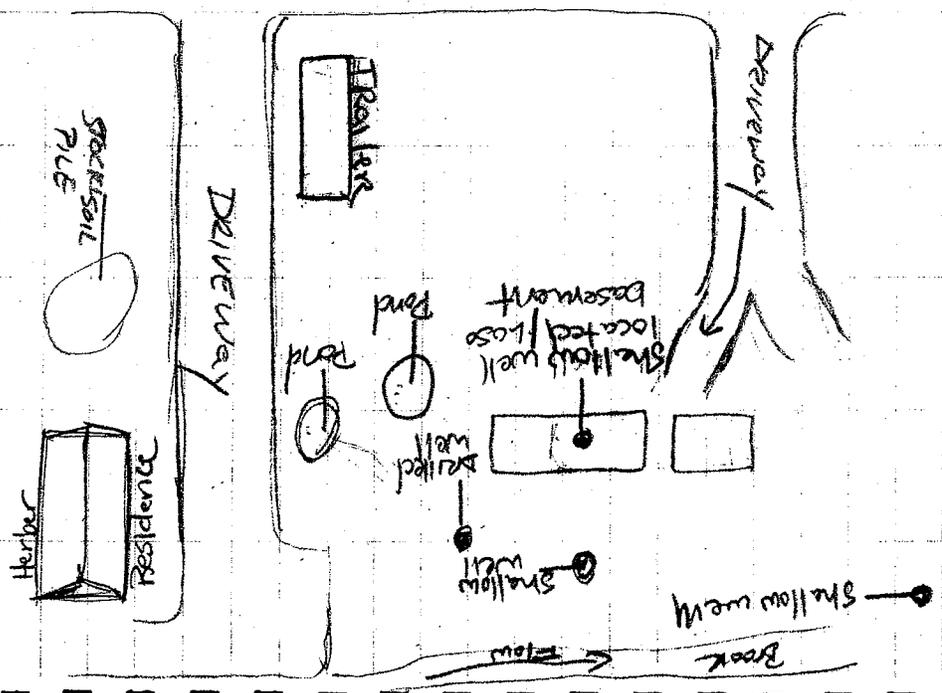
INDOOR P20 | B69

OUTDOOR P20 | B69

When entering residence noticed a very slight smell of fuel, was only noticeable in entry way.

4/25/06

Monument Mill Rd



Herber Residence 5/1/02

Supply well Sampling - Area

14:50 Leave Lab Office

16:00 Arrive Herber site

HHTS, George Spiky



Mr. and Mrs. George Huls
6786 Monument Hill Rd.
Castleton, VT 05735

Sample collected @ 16:10

Jan Whitehurst

6816 Monument Hill

Sample collected @ 16:33

Drilled well

5/1/02

Shuckett, Brenda

6811 Monument Hill

Sample collected @ 16:43

Drilled well

Hartshorn, Lindsay & Carl

6865 Monument Hill Rd.

Sample collected @ 16:55

Elle Lashin

6917 Monument Hill Rd.

Castleton 05735

Sample collected @ 17:10

Dug Well on South side

of property

5/1/06

Nancy Baird

6916 Monument Hill

Castleton 05735

Sample collected @ 17:45

Met w/ Guy Lasso about his
Property & on-going work @
Herber Site

off-site @ 18:15

Loaded up Air Purifying Units

Arrive Home @ 19:15

Herber Residence

5/14/06

Soil Boring / MW Installation

6:30 - 7:00 Field Prep

7:00 Leave LAG

8:15 Arrive @ Site

8:45 Setup on SB-1 / MW-1

SB-1 / MW-1 (response)

9-11' drive down 7:11

SD to clay SD to angular gravel

PZO = B6

No hyperbaric cell

4-7' Same as above

Rebar @ 8' by

SB-1 / MW-1 4-7'

5/14/06

1st layer @ 6.75'

~~Setup~~ sandy fill lens from 6.5-6.75

Set well @ 7' by

Screen 2-7'

Riser 5' shroud

Sand 1-7'

Benknote 6-7'

Finish SB-1 / MW-1 @ 10:00

10:20 Setup on SB-2 / MW-2

SB-2 / MW-2

0-4' 2' cast-in place (41)

3-11' drive down fill

put sand above the fill

PZO = 0.0 B6

Archer Residence 5/4/06

SB-2/mu-2 4-8'

0/ve Run TIM 50% clay
50% gravel

PBD = BG
NO obs

8-10' (obsal @ 10')

Same as above

PBD = BG NO obs

Well Construction:

Screen 1.5-8.5'

Riser 0.5-1.5'

Sand 0.8-8.5'

Back 0.5-0.9'

Completed Mu-2 @ 11:30

Herber Residence 5/4/06

SB-3/mu-3

0-4' 100% fine sand fill

Net @ 4' by

PBD = BG

4-8'

100% fine sand fill

to 6.5'

olive-gray fill 6.5-8' by

30% clay 80% gravel

PBD = BG

Submerged in sand from 4-6.5'

TIM was notched to 8'

SB-3/MU-3

5/4/06

8-12' Green Till LS to clay
35% gravel

PROD = BG

Very, very tight soils

Minor ratholing, but mostly
dry to damp

Well construction

Screen 3-10'

Riser 5-8'

Soil 2-10'

Bank. DAs-2'

Bird complex MU-3

Herber Residence

5/4/06

13:20 Soft on SB-4/MU-4

SB-4/MU-4

0-4' Brown clay 100% 6-2'

PROD = BG

Water bearing layer @ 2'
Green Till - Dense 2-4'

Soils damp & mottled in fill
layers.

4-8' grey clay Dense fill same

as above. Soils seem a little
damp & mottled.

PROD = BG

Herber Residence 5/4/66

SBS/MS-4

Well Construction: Screen 1.8-8'

Riser 0.5-1'

Sand 0.9-8'

Brk. 0.5-0.7'

14180 Complete MS-4

15200 Setup on SBS/MS-5

SBS/MS-5

0-4' Brown Silty Sand

60% fine sand

35% silt

5% pebble gravel

PRD = BG

Herber Residence 5/4/66

SBS/MS-5

4-8' Olive-green TM

60% silt

10% clay

20% pebble gravel angular

PRD = BG NO obs

Very Dense TM !!

8-11' Same as above

brk & mottled @ 10-11'

PRD = BG NO obs

Well Construction

Screen 1.8-9'

Riser 0.25-1.8'

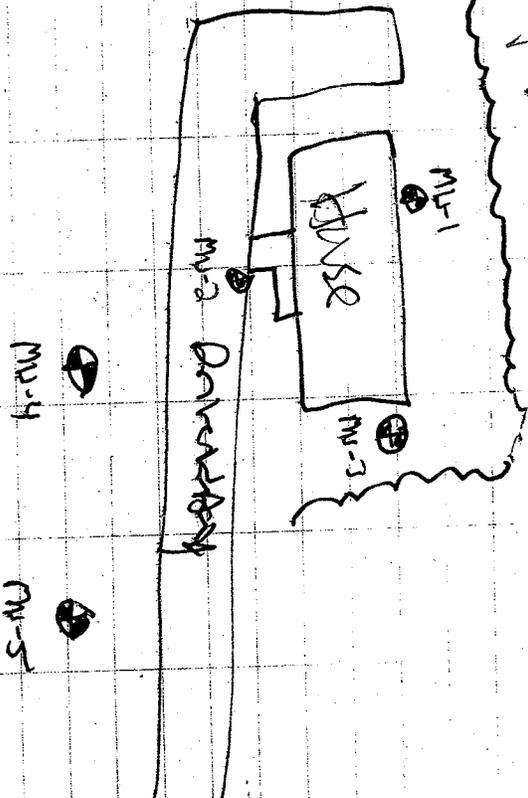
Sand 0.8-9'

Brk. 0.8-0.25'

Herber Residence 5/4/06

Complete MMS-5 @ 16:20

NN



Loss Property Line

Herber Residence 5/4/06

16:20 - 16:40 Pickup

16:40 - 17:00 Collected Composite Sample from soil stackpile for

Test Analysis for SPM

disposal @ 16:50

17:00 - 18:00 Travel Home

100 miles South of Viana

Herber Residence 5/18/06

6:30 - 7:00 Field Prep

7:00 - 8:15 Travel LAC to Site

8:15 on site Fabian unloading
Excavator to haul soils

8:45 ESME Trucks Arrive for loading

10:30 LAST ESME truck loaded, took
4 trucks

8:30 - 11:30 PID wells/wc's & purge
mw-4 & mw-5 & MW-2

11:30 - 13:30 Survey & purge MW-1 & MW-3

13:30 - 15:00 Sample wells

Fabian Landscaped Excavated Areas

Heber #06040 5/18/06

Well DTW PTO Sample time

MW-1 1.90 BG 13:50 1 vial

MW-2 2.77 BG 13:53

MW-3 4.75 BG 14:45

MW-4 0.16 BG 11:45

MW-5 2.40 BG 11:57

15:00 - 16:30 Travel site to LA6

16:30 - 17:00 Demobilize/paperwork

95 miles S. to Reno Pick-up

Herber Residence
 6826 Monument Hill Road
 Hubbardton, VT
 LAG Project #06040

Tech(s): DAM/OS
 Date: 5/18/16
 Time on-site: 8:15
 Time off-site: _____

Samples for 8260 & 8015 DRD 4 VOAs

Equipment: PID, interface probe, peristaltic pump, tubing, bailers, decon equipment, sample vials, labels, hand tools
 Survey Equipment

Monitoring Well ID	order	PID (ppm)	Depth to Product	Depth to Water	Depth to Bottom	Sample Time
MW-1	3	B6	—	DAM 2.31 1.90		13:50 ^{hand}
MW-2	4	B6	—	2.99 2.77		13:53
MW-3	5	2.5	—	3.58 4.75		14:45
MW-4	2	B6	—	0.40 0.16		17:45
MW-5	1	B6	—	2.40		17:57

Laboratory Used: _____

Chain of Custody #: _____ Trip Blank 6:45

NOTES:

- * Soil pile loading & trucking to ESMTI. Rabins loading
 ESMT trucking.
- * Insufficient recharge to obtain 4 vials for MW-1

Appendix C

**Ground Water Quality Laboratory Reports
May 18, 2006**



ENDYNE, INC.

Laboratory Services

160 James Brown Drive
Williston, Vermont 05495
(802) 879-4333
FAX 879-7103

LABORATORY REPORT

Lincoln Applied Geology
163 Revell Drive
Lincoln, VT 05443
Attn: Dagan Murray

PROJECT: Herber Residence
ORDER ID: 45035
RECEIVE DATE: May 19, 2006
REPORT DATE: June 7, 2006

Enclosed please find the results of the analyses performed for the samples referenced on the attached chain of custody. Different groups of analyses may be reported under separate cover.

All samples were prepared and analyzed by requirements outlined in the referenced methods and within the specified holding times.

All instrumentation was calibrated with the appropriate frequency and verified by the requirements outlined in the referenced methods.

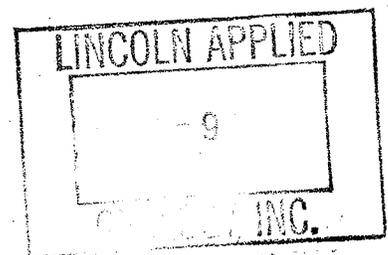
Blank contamination was not observed at levels affecting the analytical results.

Analytical method precision and accuracy was monitored by laboratory control standards which include matrix spike, duplicate and quality control analyses. These standards were determined to be within established laboratory method acceptance limits, unless otherwise noted.

Reviewed by,

Harry B. Locker, Ph.D.
Laboratory Director

enclosures





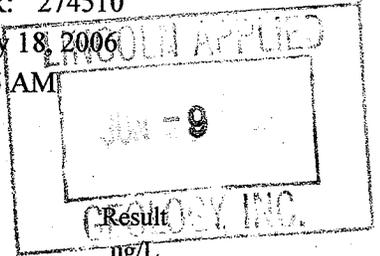
160 James Brown Drive
Williston, Vermont 05495
(802) 879-4333
FAX 879-7103

LABORATORY REPORT

SW 8260

CLIENT: Lincoln Applied Geology
PROJECT: Herber Residence
SITE: Trip Blank
DATE RECEIVED: May 19, 2006
REPORT DATE: June 7, 2006
ANALYSIS DATE: May 31, 2006

ORDER ID: 45035
REFERENCE NUMBER: 274510
DATE SAMPLED: May 18, 2006
TIME SAMPLED: 6:45 AM
SAMPLER: DAM
ANALYST: 725



<u>Parameter</u>	<u>Result</u> <u>ug/L</u>
Benzene	<1.0
Bromobenzene	<1.0
Bromochloromethane	<2.0
Bromodichloromethane	<1.0
Bromoform	<2.0
Bromomethane	<5.0
n-Butylbenzene	<1.0
sec-Butylbenzene	<1.0
tert-Butylbenzene	<1.0
Carbon Tetrachloride	<1.0
Chlorobenzene	<1.0
Chloroethane	<5.0
Chloroform	<1.0
Chloromethane	<3.0
2-Chlorotoluene	<1.0
4-Chlorotoluene	<1.0
Dibromochloromethane	<2.0
1,2-Dibromo-3-Chloropropane	<2.0
1,2-Dibromoethane	<2.0
Dibromomethane	<2.0
1,2-Dichlorobenzene	<1.0
1,3-Dichlorobenzene	<1.0
1,4-Dichlorobenzene	<1.0
Dichlorodifluoromethane	<5.0
1,1-Dichloroethane	<1.0
1,2-Dichloroethane	<1.0
1,1-Dichloroethene	<1.0
cis-1,2-Dichloroethene	<1.0
trans-1,2-Dichloroethene	<1.0
1,2-Dichloropropane	<1.0
1,3-Dichloropropane	<1.0
2,2-Dichloropropane	<1.0

<u>Parameter</u>	<u>Result</u> <u>ug/L</u>
1,1-Dichloropropene	<1.0
cis-1,3-Dichloropropene	<1.0
trans-1,3-Dichloropropene	<1.0
Ethylbenzene	<1.0
Hexachlorobutadiene	<2.0
Isopropylbenzene	<1.0
p-Isopropyltoluene	<1.0
Methylene Chloride	<5.0
MTBE	<2.0
Naphthalene	<2.0
n-Propylbenzene	<1.0
Styrene	<1.0
1,1,1,2-Tetrachloroethane	<2.0
1,1,2,2-Tetrachloroethane	<2.0
Tetrachloroethene	<1.0
Toluene	<1.0
1,2,3-Trichlorobenzene	<2.0
1,2,4-Trichlorobenzene	<2.0
1,1,1-Trichloroethane	<1.0
1,1,2-Trichloroethane	<1.0
Trichloroethene	<1.0
Trichlorofluoromethane	<2.0
1,2,3-Trichloropropane	<2.0
1,2,4-Trimethylbenzene	<1.0
1,3,5-Trimethylbenzene	<1.0
Vinyl Chloride	<2.0
Xylenes, Total	<2.0
Surrogate 1	105.0%
Surrogate 2	100.0%
Surrogate 3	105.0%
UIP's	0.

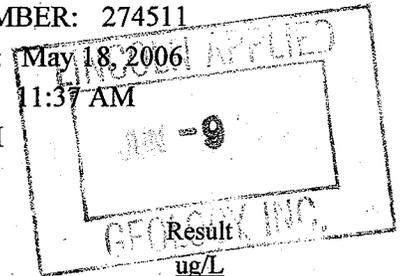


LABORATORY REPORT

SW 8260

CLIENT: Lincoln Applied Geology
PROJECT: Herber Residence
SITE: MW-5
DATE RECEIVED: May 19, 2006
REPORT DATE: June 7, 2006
ANALYSIS DATE: May 31, 2006

ORDER ID: 45035
REFERENCE NUMBER: 274511
DATE SAMPLED: May 18, 2006
TIME SAMPLED: 11:37 AM
SAMPLER: DAM
ANALYST: 725



<u>Parameter</u>	<u>Result</u> <u>ug/L</u>	<u>Parameter</u>	<u>Result</u> <u>ug/L</u>
Benzene	<1.0	1,1-Dichloropropene	<1.0
Bromobenzene	<1.0	cis-1,3-Dichloropropene	<1.0
Bromochloromethane	<2.0	trans-1,3-Dichloropropene	<1.0
Bromodichloromethane	<1.0	Ethylbenzene	<1.0
Bromoform	<2.0	Hexachlorobutadiene	<2.0
Bromomethane	<5.0	Isopropylbenzene	<1.0
n-Butylbenzene	<1.0	p-Isopropyltoluene	<1.0
sec-Butylbenzene	<1.0	Methylene Chloride	<5.0
tert-Butylbenzene	<1.0	MTBE	<2.0
Carbon Tetrachloride	<1.0	Naphthalene	<2.0
Chlorobenzene	<1.0	n-Propylbenzene	<1.0
Chloroethane	<5.0	Styrene	<1.0
Chloroform	<1.0	1,1,1,2-Tetrachloroethane	<2.0
Chloromethane	<3.0	1,1,2,2-Tetrachloroethane	<2.0
2-Chlorotoluene	<1.0	Tetrachloroethene	<1.0
4-Chlorotoluene	<1.0	Toluene	<1.0
Dibromochloromethane	<2.0	1,2,3-Trichlorobenzene	<2.0
1,2-Dibromo-3-Chloropropane	<2.0	1,2,4-Trichlorobenzene	<2.0
1,2-Dibromoethane	<2.0	1,1,1-Trichloroethane	<1.0
Dibromomethane	<2.0	1,1,2-Trichloroethane	<1.0
1,2-Dichlorobenzene	<1.0	Trichloroethene	<1.0
1,3-Dichlorobenzene	<1.0	Trichlorofluoromethane	<2.0
1,4-Dichlorobenzene	<1.0	1,2,3-Trichloropropane	<2.0
Dichlorodifluoromethane	<5.0	1,2,4-Trimethylbenzene	<1.0
1,1-Dichloroethane	<1.0	1,3,5-Trimethylbenzene	<1.0
1,2-Dichloroethane	<1.0	Vinyl Chloride	<2.0
1,1-Dichloroethene	<1.0	Xylenes, Total	<2.0
cis-1,2-Dichloroethene	<1.0	Surrogate 1	106.0%
trans-1,2-Dichloroethene	<1.0	Surrogate 2	102.0%
1,2-Dichloropropane	<1.0	Surrogate 3	105.0%
1,3-Dichloropropane	<1.0	UIP's	0.
2,2-Dichloropropane	<1.0		



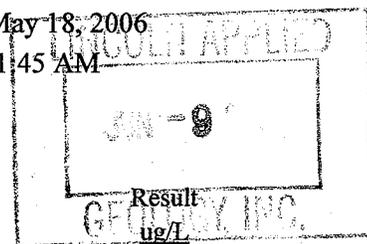
160 James Brown Drive
Williston, Vermont 05495
(802) 879-4333
FAX 879-7103

LABORATORY REPORT

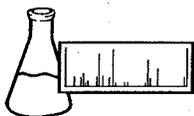
SW 8260

CLIENT: Lincoln Applied Geology
PROJECT: Herber Residence
SITE: MW-4
DATE RECEIVED: May 19, 2006
REPORT DATE: June 7, 2006
ANALYSIS DATE: May 31, 2006

ORDER ID: 45035
REFERENCE NUMBER: 274512
DATE SAMPLED: May 18, 2006
TIME SAMPLED: 11:45 AM
SAMPLER: DAM
ANALYST: 725



Parameter	Result ug/L	Parameter	Result ug/L
Benzene	< 1.0	1,1-Dichloropropene	< 1.0
Bromobenzene	< 1.0	cis-1,3-Dichloropropene	< 1.0
Bromochloromethane	< 2.0	trans-1,3-Dichloropropene	< 1.0
Bromodichloromethane	< 1.0	Ethylbenzene	< 1.0
Bromoform	< 2.0	Hexachlorobutadiene	< 2.0
Bromomethane	< 5.0	Isopropylbenzene	< 1.0
n-Butylbenzene	< 1.0	p-Isopropyltoluene	< 1.0
sec-Butylbenzene	< 1.0	Methylene Chloride	< 5.0
tert-Butylbenzene	< 1.0	MTBE	< 2.0
Carbon Tetrachloride	< 1.0	Naphthalene	< 2.0
Chlorobenzene	< 1.0	n-Propylbenzene	< 1.0
Chloroethane	< 5.0	Styrene	< 1.0
Chloroform	< 1.0	1,1,1,2-Tetrachloroethane	< 2.0
Chloromethane	< 3.0	1,1,2,2-Tetrachloroethane	< 2.0
2-Chlorotoluene	< 1.0	Tetrachloroethene	< 1.0
4-Chlorotoluene	< 1.0	Toluene	< 1.0
Dibromochloromethane	< 2.0	1,2,3-Trichlorobenzene	< 2.0
1,2-Dibromo-3-Chloropropane	< 2.0	1,2,4-Trichlorobenzene	< 2.0
1,2-Dibromoethane	< 2.0	1,1,1-Trichloroethane	< 1.0
Dibromomethane	< 2.0	1,1,2-Trichloroethane	< 1.0
1,2-Dichlorobenzene	< 1.0	Trichloroethene	< 1.0
1,3-Dichlorobenzene	< 1.0	Trichlorofluoromethane	< 2.0
1,4-Dichlorobenzene	< 1.0	1,2,3-Trichloropropane	< 2.0
Dichlorodifluoromethane	< 5.0	1,2,4-Trimethylbenzene	< 1.0
1,1-Dichloroethane	< 1.0	1,3,5-Trimethylbenzene	< 1.0
1,2-Dichloroethane	< 1.0	Vinyl Chloride	< 2.0
1,1-Dichloroethene	< 1.0	Xylenes, Total	< 2.0
cis-1,2-Dichloroethene	< 1.0	Surrogate 1	106.0%
trans-1,2-Dichloroethene	< 1.0	Surrogate 2	100.0%
1,2-Dichloropropane	< 1.0	Surrogate 3	101.0%
1,3-Dichloropropane	< 1.0	UIP's	0.
2,2-Dichloropropane	< 1.0		



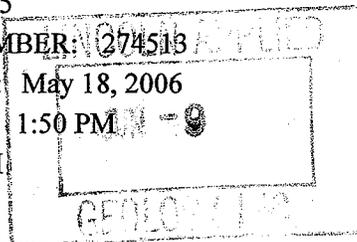
160 James Brown Drive
Williston, Vermont 05495
(802) 879-4333
FAX 879-7103

LABORATORY REPORT

SW 8260

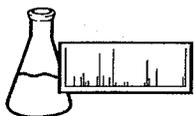
CLIENT: Lincoln Applied Geology
PROJECT: Herber Residence
SITE: MW-1
DATE RECEIVED: May 19, 2006
REPORT DATE: June 7, 2006
ANALYSIS DATE: May 26, 2006

ORDER ID: 45035
REFERENCE NUMBER: 274513
DATE SAMPLED: May 18, 2006
TIME SAMPLED: 1:50 PM
SAMPLER: DAM
ANALYST: 725



Parameter	Result	Parameter	Result
	ug/L		ug/L
Benzene	< 1.0	1,1-Dichloropropene	< 1.0
Bromobenzene	< 1.0	cis-1,3-Dichloropropene	< 1.0
Bromochloromethane	< 2.0	trans-1,3-Dichloropropene	< 1.0
Bromodichloromethane	< 1.0	Ethylbenzene	< 1.0
Bromoform	< 2.0	Hexachlorobutadiene	< 2.0
Bromomethane	< 5.0	Isopropylbenzene	< 1.0
n-Butylbenzene	< 1.0	p-Isopropyltoluene	< 1.0
sec-Butylbenzene	< 1.0	Methylene Chloride	< 5.0
tert-Butylbenzene	< 1.0	MTBE	< 2.0
Carbon Tetrachloride	< 1.0	Naphthalene	< 2.0
Chlorobenzene	< 1.0	n-Propylbenzene	< 1.0
Chloroethane	< 5.0	Styrene	< 1.0
Chloroform	< 1.0	1,1,1,2-Tetrachloroethane	< 2.0
Chloromethane	< 3.0	1,1,2,2-Tetrachloroethane	< 2.0
4-Chlorotoluene	< 1.0	Tetrachloroethene	< 1.0
2-Chlorotoluene	< 1.0	Toluene	< 1.0
Dibromochloromethane	< 2.0	1,2,3-Trichlorobenzene	< 2.0
1,2-Dibromo-3-Chloropropane	< 2.0	1,2,4-Trichlorobenzene	< 2.0
1,2-Dibromoethane	< 2.0	1,1,1-Trichloroethane	< 1.0
Dibromomethane	< 2.0	1,1,2-Trichloroethane	< 1.0
1,2-Dichlorobenzene	< 1.0	Trichloroethene	< 1.0
1,3-Dichlorobenzene	< 1.0	Trichlorofluoromethane	< 2.0
1,4-Dichlorobenzene	< 1.0	1,2,3-Trichloropropane	< 2.0
Dichlorodifluoromethane	< 5.0	1,2,4-Trimethylbenzene	< 1.0
1,1-Dichloroethane	< 1.0	1,3,5-Trimethylbenzene	< 1.0
1,2-Dichloroethane	< 1.0	Vinyl Chloride	< 2.0
1,1-Dichloroethene	< 1.0	Xylenes, Total	< 2.0
cis-1,2-Dichloroethene	< 1.0	Surrogate 1	105.0%
trans-1,2-Dichloroethene	< 1.0	Surrogate 2	99.0%
1,2-Dichloropropane	< 1.0	Surrogate 3	105.0%
1,3-Dichloropropane	< 1.0	UIP's	0.0%
2,2-Dichloropropane	< 1.0		





LABORATORY REPORT

SW 8260

CLIENT: Lincoln Applied Geology
PROJECT: Herber Residence
SITE: MW-2
DATE RECEIVED: May 19, 2006
REPORT DATE: June 7, 2006
ANALYSIS DATE: May 31, 2006

ORDER ID: 45035

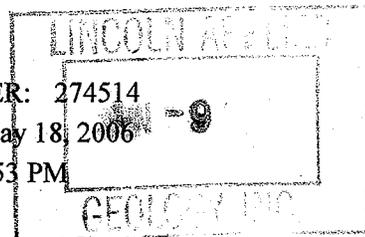
REFERENCE NUMBER: 274514

DATE SAMPLED: May 18, 2006

TIME SAMPLED: 1:53 PM

SAMPLER: DAM

ANALYST: 725

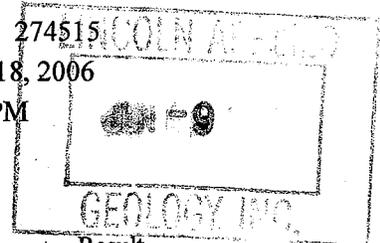


Parameter	Result	Parameter	Result
	ug/L		ug/L
Benzene	< 1.0	1,1-Dichloropropene	< 1.0
Bromobenzene	< 1.0	cis-1,3-Dichloropropene	< 1.0
Bromochloromethane	< 2.0	trans-1,3-Dichloropropene	< 1.0
Bromodichloromethane	< 1.0	Ethylbenzene	< 1.0
Bromoform	< 2.0	Hexachlorobutadiene	< 2.0
Bromomethane	< 5.0	Isopropylbenzene	< 1.0
n-Butylbenzene	< 1.0	p-Isopropyltoluene	< 1.0
sec-Butylbenzene	< 1.0	Methylene Chloride	< 5.0
tert-Butylbenzene	< 1.0	MTBE	< 2.0
Carbon Tetrachloride	< 1.0	Naphthalene	< 2.0
Chlorobenzene	< 1.0	n-Propylbenzene	< 1.0
Chloroethane	< 5.0	Styrene	< 1.0
Chloroform	< 1.0	1,1,1,2-Tetrachloroethane	< 2.0
Chloromethane	< 3.0	1,1,2,2-Tetrachloroethane	< 2.0
4-Chlorotoluene	< 1.0	Tetrachloroethene	< 1.0
2-Chlorotoluene	< 1.0	Toluene	< 1.0
Dibromochloromethane	< 2.0	1,2,3-Trichlorobenzene	< 2.0
1,2-Dibromo-3-Chloropropane	< 2.0	1,2,4-Trichlorobenzene	< 2.0
1,2-Dibromoethane	< 2.0	1,1,1-Trichloroethane	< 1.0
Dibromomethane	< 2.0	1,1,2-Trichloroethane	< 1.0
1,2-Dichlorobenzene	< 1.0	Trichloroethene	< 1.0
1,3-Dichlorobenzene	< 1.0	Trichlorofluoromethane	< 2.0
1,4-Dichlorobenzene	< 1.0	1,2,3-Trichloropropane	< 2.0
Dichlorodifluoromethane	< 5.0	1,2,4-Trimethylbenzene	< 1.0
1,1-Dichloroethane	< 1.0	1,3,5-Trimethylbenzene	< 1.0
1,2-Dichloroethane	< 1.0	Vinyl Chloride	< 2.0
1,1-Dichloroethene	< 1.0	Xylenes, Total	< 2.0
cis-1,2-Dichloroethene	< 1.0	Surrogate 1	107.0%
trans-1,2-Dichloroethene	< 1.0	Surrogate 2	101.0%
1,2-Dichloropropane	< 1.0	Surrogate 3	104.0%
1,3-Dichloropropane	< 1.0	UIP's	0.
2,2-Dichloropropane	< 1.0		

LABORATORY REPORT

SW 8260

 CLIENT: Lincoln Applied Geology
 PROJECT: Herber Residence
 SITE: MW-3
 DATE RECEIVED: May 19, 2006
 REPORT DATE: June 7, 2006
 ANALYSIS DATE: May 31, 2006

 ORDER ID: 45035
 REFERENCE NUMBER: 274515
 DATE SAMPLED: May 18, 2006
 TIME SAMPLED: 2:45 PM
 SAMPLER: DAM
 ANALYST: 725


<u>Parameter</u>	<u>Result</u> <u>ug/L</u>
Benzene	< 1.0
Bromobenzene	< 1.0
Bromochloromethane	< 2.0
Bromodichloromethane	< 1.0
Bromoform	< 2.0
Bromomethane	< 5.0
n-Butylbenzene	< 1.0
sec-Butylbenzene	< 1.0
tert-Butylbenzene	< 1.0
Carbon Tetrachloride	< 1.0
Chlorobenzene	< 1.0
Chloroethane	< 5.0
Chloroform	< 1.0
Chloromethane	< 3.0
4-Chlorotoluene	< 1.0
2-Chlorotoluene	< 1.0
Dibromochloromethane	< 2.0
1,2-Dibromo-3-Chloropropane	< 2.0
1,2-Dibromoethane	< 2.0
Dibromomethane	< 2.0
1,2-Dichlorobenzene	< 1.0
1,3-Dichlorobenzene	< 1.0
1,4-Dichlorobenzene	< 1.0
Dichlorodifluoromethane	< 5.0
1,1-Dichloroethane	< 1.0
1,2-Dichloroethane	< 1.0
1,1-Dichloroethene	< 1.0
cis-1,2-Dichloroethene	< 1.0
trans-1,2-Dichloroethene	< 1.0
1,2-Dichloropropane	< 1.0
1,3-Dichloropropane	< 1.0
2,2-Dichloropropane	< 1.0

<u>Parameter</u>	<u>Result</u> <u>ug/L</u>
1,1-Dichloropropene	< 1.0
cis-1,3-Dichloropropene	< 1.0
trans-1,3-Dichloropropene	< 1.0
Ethylbenzene	< 1.0
Hexachlorobutadiene	< 2.0
Isopropylbenzene	< 1.0
p-Isopropyltoluene	< 1.0
Methylene Chloride	< 5.0
MTBE	< 2.0
Naphthalene	< 2.0
n-Propylbenzene	< 1.0
Styrene	< 1.0
1,1,1,2-Tetrachloroethane	< 2.0
1,1,2,2-Tetrachloroethane	< 2.0
Tetrachloroethene	< 1.0
Toluene	< 1.0
1,2,3-Trichlorobenzene	< 2.0
1,2,4-Trichlorobenzene	< 2.0
1,1,1-Trichloroethane	< 1.0
1,1,2-Trichloroethane	< 1.0
Trichloroethene	< 1.0
Trichlorofluoromethane	< 2.0
1,2,3-Trichloropropane	< 2.0
1,2,4-Trimethylbenzene	< 1.0
1,3,5-Trimethylbenzene	< 1.0
Vinyl Chloride	< 2.0
Xylenes, Total	< 2.0
Surrogate 1	106.0%
Surrogate 2	100.0%
Surrogate 3	105.0%
UIP's	0.



ENDDYNE, INC.
160 James Brown Drive
Williston, Vermont 05495
(802) 879-4333

CHAIN-OF-CUSTODY-RECORD
JOB # 06040

83588

Special Reporting Instructions:

Project Name: **Herber Residence**

Reporting Address: **LAC**

Billing Address: **LAC**

Enddyne Order ID: **45035**

Company: **Dawn Murray**

Sampler Name: **DM**

(Lab Use Only)

Contact Name/Phone #: **453-4384**

Phone #:

Ret # (Lab Use Only)	Sample Identification	Matrix	RA B	RM P	Date/Time	Sample Containers No. Type/Size	Field Results/Remarks	Analysis Required	Sample Preservation	Rush
	Trip Blank	HA0	X		6:45	2 40ml		#24	HZ1	
	MJ-5				11:37			#24, 23		
	MJ-4				11:45					
	MJ-1				13:58					
	MJ-2				13:53					
	MJ-3				14:45					

Relinquished by: *DM* Date/Time: **5/19/06 8:00**

Received by: *DM* Date/Time: **5/19/06 8:15**

New York State Project: Yes No Requested Analyses

Signature: *DM*

1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30
	TKN	Total Solids	Sulfate	Coliform (Specify)	21	1664 TPPH/FOG	26	8270 PAH																					
	Chloride	Total P	Coliform (Specify)	22	8015 GRO	27	PP13 Metals																						
	Ammonia N	Total Diss. P	COD	23	8015 DRO	28	RCRA8 Metals																						
	Nitrite N	BOD	Turbidity	24	8260/8260B	29																							
	Nitrate N	Alkalinity	Conductivity	25	8270 B/N or Acid	30																							
	Metals (As, Is, Total, Diss.) Ag, Al, As, B, Ba, Be, Ca, Cd, Co, Cr, Cu, Fe, Hg, K, Mg, Mn, Mo, Na, Ni, Pb, Sb, Se, Tl, V, Zn																												
	TCLP (Specify: volatiles, semi-volatiles, metals, pesticides, herbicides)																												
	Other																												

Delivery: *DM* Date/Time: **5/19/06 10:00am**

Temp: **46°C**

Comments: *Blank*

(White, Yellow - Laboratory / Pink - Client)



Laboratory Services

160 James Brown Drive
Williston, Vermont 05495
(802) 879-4333
FAX 879-7103

LABORATORY REPORT

Lincoln Applied Geology
163 Revell Drive
Lincoln, VT 05443
Attn: Dagan Murray

PROJECT: Herber Residence
ORDER ID: 45035
RECEIVE DATE: May 19, 2006
REPORT DATE: June 12, 2006

Enclosed please find the results of the analyses performed for the samples referenced on the attached chain of custody. Different groups of analyses may be reported under separate cover.

All samples were prepared and analyzed by requirements outlined in the referenced methods and within the specified holding times.

All instrumentation was calibrated with the appropriate frequency and verified by the requirements outlined in the referenced methods.

Blank contamination was not observed at levels affecting the analytical results.

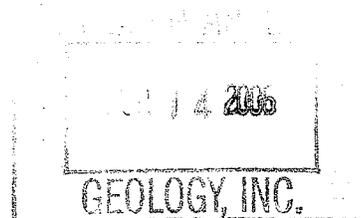
Analytical method precision and accuracy was monitored by laboratory control standards which include matrix spike, duplicate and quality control analyses. These standards were determined to be within established laboratory method acceptance limits, unless otherwise noted.

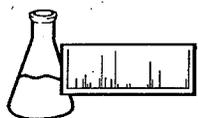
D indicates sample was extracted past EPA method specified holding time.

Reviewed by,

Harry B. Locker, Ph.D.
Laboratory Director

Enclosures





LABORATORY REPORT

CLIENT: Lincoln Applied Geology

ORDER ID: 45035

PROJECT: Herber Residence

DATE RECEIVED: May 19, 2006

REPORT DATE: June 12, 2006

SAMPLER: DAM

ANALYST: 207

Ref. Number: 274511

Site: MW-5

Date Sampled: May 18, 2006

Time: 11:37 AM

<u>Parameter</u>	<u>Result</u>	<u>Unit</u>	<u>Method</u>	<u>Analysis Date</u>
TPH 8015 DRO	< 0.40	mg/L	SW 8015B	5/23/06

Ref. Number: 274512

Site: MW-4

Date Sampled: May 18, 2006

Time: 11:45 AM

<u>Parameter</u>	<u>Result</u>	<u>Unit</u>	<u>Method</u>	<u>Analysis Date</u>
TPH 8015 DRO	< 0.40	mg/L	SW 8015B	5/23/06

Ref. Number: 274513

Site: MW-1

Date Sampled: May 18, 2006

Time: 1:50 PM

<u>Parameter</u>	<u>Result</u>	<u>Unit</u>	<u>Method</u>	<u>Analysis Date</u>
TPH 8015 DRO	< 0.40 D	mg/L	SW 8015B	6/4/06

Ref. Number: 274514

Site: MW-2

Date Sampled: May 18, 2006

Time: 1:53 PM

<u>Parameter</u>	<u>Result</u>	<u>Unit</u>	<u>Method</u>	<u>Analysis Date</u>
TPH 8015 DRO	< 0.40	mg/L	SW 8015B	5/23/06

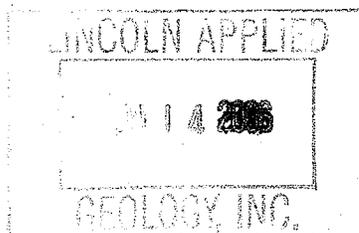
Ref. Number: 274515

Site: MW-3

Date Sampled: May 18, 2006

Time: 2:45 PM

<u>Parameter</u>	<u>Result</u>	<u>Unit</u>	<u>Method</u>	<u>Analysis Date</u>
TPH 8015 DRO	< 0.40	mg/L	SW 8015B	5/23/06





ENDYNE, INC.
 160 James Brown Drive
 Williston, Vermont 05495
 (802) 879-4333

CHAIN-OF-CUSTODY-RECORD
 500 # 060910

UNCLIN AP-1
 JUN 14 2006

83588

Special Reporting Instructions:

Project Name: **Herber Residence**
 Reporting Address: **LAC**
 Billing Address: **LAC**
 Endyne Order ID: **45035**
 Company: **DAM MURRAY**
 Sampler Name: **DAM**
 (Lab Use Only) **-0**
 Contact Name/Phone #: **453-4384**
 Phone #: **-1**

Ret # (Lab Use Only)	Sample Identification	Matrix	GRAB	COM	Date/Time	Sample Containers No. Type/Size	Field Results/Remarks	Analysis Required	Sample Preservation	Rush
	Trip Blank	Had	X		6:45	2 40ml		#24 #21		
	MU-5				11:37	4				
	MU-4				11:45	4				
	MU-1				13:58	1				
	MU-2				13:53	4				
	MU-3				14:45	4				

Relinquished by: *[Signature]* Date/Time: **5/19/06 8:00**
 Received by: *[Signature]* Date/Time: **5/19/06 8:15**
 New York State Project: Yes No
 Requested Analyses: **Drinking Water 519-06**

1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34
TKN	Total Solids	Sulfate	Coliform (Specify)	COD	TDS	Turbidity	Conductivity	8010/8020	8270 B/N or Acid	1664 TPH/FOG	8015 GRO	8015 DRO	8260/8260B	8270 PAH	PP13 Metals	RORA8 Metals																	
Chloride	Total P	Total Diss. P	BOD	Alkalinity	Total Diss. P	TSS	Turbidity	8010/8020	8270 B/N or Acid	1664 TPH/FOG	8015 GRO	8015 DRO	8260/8260B	8270 PAH	PP13 Metals	RORA8 Metals																	
Ammonia N	Total Diss. P	COD	TDS	Conductivity	Total Diss. P	TSS	Turbidity	8010/8020	8270 B/N or Acid	1664 TPH/FOG	8015 GRO	8015 DRO	8260/8260B	8270 PAH	PP13 Metals	RORA8 Metals																	
Nitrite N	BOD	COD	TDS	Conductivity	Total Diss. P	TSS	Turbidity	8010/8020	8270 B/N or Acid	1664 TPH/FOG	8015 GRO	8015 DRO	8260/8260B	8270 PAH	PP13 Metals	RORA8 Metals																	
Nitrate N	Alkalinity	COD	TDS	Conductivity	Total Diss. P	TSS	Turbidity	8010/8020	8270 B/N or Acid	1664 TPH/FOG	8015 GRO	8015 DRO	8260/8260B	8270 PAH	PP13 Metals	RORA8 Metals																	
Metals (As Is, Total, Diss.) Ag, Al, As, B, Ba, Be, Ca, Cd, Co, Cr, Cu, Fe, Hg, K, Mg, Mn, Mo, Na, Ni, Pb, Sb, Se, TI, V, Zn																																	
TCIP (Specify: volatiles, semi-volatiles, metals, pesticides, herbicides)																																	
Other																																	

(White, Yellow - Laboratory / Pink - Client)

Appendix D

**Drinking Water Quality Laboratory Reports
April & May 2006**

LABORATORY REPORT

Lincoln Applied Geology
163 Revell Drive
Lincoln, VT 05443
Attn: Dagan Murray

PROJECT: Herber Residence
ORDER ID: 44173
RECEIVE DATE: April 10, 2006
REPORT DATE: May 3, 2006

Enclosed please find the results of the analyses performed for the samples referenced on the attached chain of custody. Different groups of analyses may be reported under separate cover.

All samples were prepared and analyzed by requirements outlined in the referenced methods and within the specified holding times.

All instrumentation was calibrated with the appropriate frequency and verified by the requirements outlined in the referenced methods.

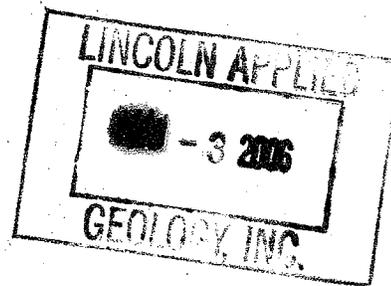
Blank contamination was not observed at levels affecting the analytical results.

Analytical method precision and accuracy was monitored by laboratory control standards which include matrix spike, duplicate and quality control analyses. These standards were determined to be within established laboratory method acceptance limits, unless otherwise noted.

Reviewed by,

Harry B. Locker, Ph.D.
Laboratory Director

enclosures



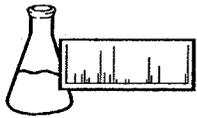
LABORATORY REPORT

EPA 524.2

CLIENT: Lincoln Applied Geology
 PROJECT: Herber Residence
 SITE: Supply Well
 DATE RECEIVED: April 10, 2006
 REPORT DATE: May 3, 2006
 ANALYSIS DATE: April 19, 2006

ORDER ID: 44173
 REFERENCE NUMBER: 271704
 DATE SAMPLED: April 7, 2006
 TIME SAMPLED: 1:13 PM
 SAMPLER: DM
 ANALYST: 725

Parameter	Result ug/L	Parameter	Result ug/L
Benzene	< 0.5	Hexachlorobutadiene	< 0.5
Bromobenzene	< 0.5	Isopropylbenzene	< 0.5
Bromomethane	< 0.5	4-Isopropyltoluene	< 0.5
Bromochloromethane	< 0.5	Naphthalene	< 1.0
n-Butylbenzene	< 0.5	MTBE	< 1.0
sec-Butylbenzene	< 0.5	n-Propylbenzene	< 0.5
tert-Butylbenzene	< 0.5	Styrene	< 0.5
Carbon tetrachloride	< 0.5	1,1,1,2-Tetrachloroethane	< 0.5
Chlorobenzene	< 0.5	1,1,2,2-Tetrachloroethane	< 1.0
Chloroethane	< 0.5	Tetrachloroethene	< 0.5
Chloromethane	< 1.0	Toluene	< 0.5
2-Chlorotoluene	< 0.5	1,2,3-Trichlorobenzene	< 0.5
4-Chlorotoluene	< 0.5	1,2,4-Trichlorobenzene	< 0.5
Dibromomethane	< 1.0	1,1,1-Trichloroethane	< 0.5
Dichloromethane	< 2.0	1,1,2-Trichloroethane	< 0.5
Dichlorodifluoromethane	< 0.5	Trichloroethene	< 0.5
1,2-Dichlorobenzene	< 0.5	Trichlorofluoromethane	< 1.0
1,3-Dichlorobenzene	< 0.5	1,2,3-Trichloropropane	< 0.5
1,4-Dichlorobenzene	< 0.5	1,2,4-Trimethylbenzene	< 0.5
1,2-Dichloroethane	< 0.5	1,3,5-Trimethylbenzene	< 0.5
1,1-Dichloroethane	< 0.5	Vinyl Chloride	< 0.5
1,1-Dichloroethene	< 0.5	Xylenes, Total	< 1.0
cis-1,2-Dichloroethene	< 0.5	Bromodichloromethane	< 0.5
trans-1,2-Dichloroethene	< 0.5	Chloroform	< 0.5
1,2-Dichloropropane	< 0.5	Dibromochloromethane	< 0.5
1,3-Dichloropropane	< 0.5	Bromoform	< 0.5
2,2-Dichloropropane	< 1.0	Total Trihalomethanes	< 0.5
1,1-Dichloropropene	< 0.5	Surrogate 1	95.0%
cis-1,3-Dichloropropene	< 0.5	Surrogate 2	93.0%
trans-1,3-Dichloropropene	< 0.5	UIP's	0.
Ethylbenzene	< 0.5		



ENDYNE, INC.

Laboratory Services

160 James Brown Drive
Williston, Vermont 05495
(802) 879-4333
FAX 879-7103

LABORATORY REPORT

Lincoln Applied Geology
163 Revell Drive
Lincoln, VT 05443
Attn: Dagen Murray

PROJECT: Herber Residence
ORDER ID: 44481
RECEIVE DATE: April 26, 2006
REPORT DATE: May 4, 2006

Enclosed please find the results of the analyses performed for the samples referenced on the attached chain of custody. Different groups of analyses may be reported under separate cover.

All samples were prepared and analyzed by requirements outlined in the referenced methods and within the specified holding times.

All instrumentation was calibrated with the appropriate frequency and verified by the requirements outlined in the referenced methods.

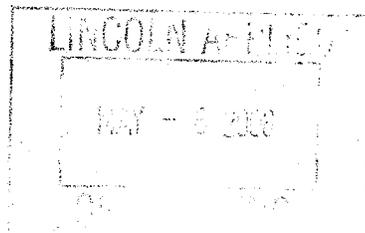
Blank contamination was not observed at levels affecting the analytical results.

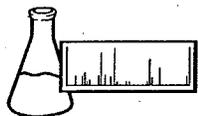
Analytical method precision and accuracy was monitored by laboratory control standards which include matrix spike, duplicate and quality control analyses. These standards were determined to be within established laboratory method acceptance limits, unless otherwise noted.

Reviewed by,

Harry B. Locker, Ph.D.
Laboratory Director

enclosures





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(802) 879-4333
FAX 879-7103

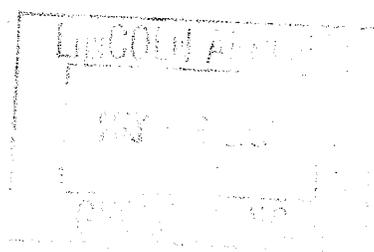
LABORATORY REPORT

EPA 524.2

CLIENT: Lincoln Applied Geology
PROJECT: Herber Residence
SITE: Laso Well
DATE RECEIVED: April 26, 2006
REPORT DATE: May 4, 2006
ANALYSIS DATE: May 2, 2006

ORDER ID: 44481
REFERENCE NUMBER: 272749
DATE SAMPLED: April 25, 2006
TIME SAMPLED: 11:30 AM
SAMPLER: KH
ANALYST: 725

<u>Parameter</u>	<u>Result</u> <u>ug/L</u>	<u>Parameter</u>	<u>Result</u> <u>ug/L</u>
Benzene	< 0.5	Hexachlorobutadiene	< 0.5
Bromobenzene	< 0.5	Isopropylbenzene	< 0.5
Bromomethane	< 0.5	4-Isopropyltoluene	< 0.5
Bromochloromethane	< 0.5	Naphthalene	< 1.0
n-Butylbenzene	< 0.5	MTBE	< 1.0
sec-Butylbenzene	< 0.5	n-Propylbenzene	< 0.5
tert-Butylbenzene	< 0.5	Styrene	< 0.5
Carbon tetrachloride	< 0.5	1,1,1,2-Tetrachloroethane	< 0.5
Chlorobenzene	< 0.5	1,1,2,2-Tetrachloroethane	< 1.0
Chloroethane	< 0.5	Tetrachloroethene	< 0.5
Chloromethane	< 1.0	Toluene	< 0.5
2-Chlorotoluene	< 0.5	1,2,3-Trichlorobenzene	< 0.5
4-Chlorotoluene	< 0.5	1,2,4-Trichlorobenzene	< 0.5
Dibromomethane	< 1.0	1,1,1-Trichloroethane	< 0.5
Dichloromethane	< 2.0	1,1,2-Trichloroethane	< 0.5
Dichlorodifluoromethane	< 0.5	Trichloroethene	< 0.5
1,2-Dichlorobenzene	< 0.5	Trichlorofluoromethane	< 1.0
1,3-Dichlorobenzene	< 0.5	1,2,3-Trichloropropane	< 0.5
1,4-Dichlorobenzene	< 0.5	1,2,4-Trimethylbenzene	< 0.5
1,2-Dichloroethane	< 0.5	1,3,5-Trimethylbenzene	< 0.5
1,1-Dichloroethane	< 0.5	Vinyl Chloride	< 0.5
1,1-Dichloroethene	< 0.5	Xylenes, Total	< 1.0
cis-1,2-Dichloroethene	< 0.5	Bromodichloromethane	< 0.5
trans-1,2-Dichloroethene	< 0.5	Chloroform	< 0.5
1,2-Dichloropropane	< 0.5	Dibromochloromethane	< 0.5
1,3-Dichloropropane	< 0.5	Bromoform	< 0.5
2,2-Dichloropropane	< 1.0	Total Trihalomethanes	< 0.5
1,1-Dichloropropene	< 0.5	Surrogate 1	92.0%
cis-1,3-Dichloropropene	< 0.5	Surrogate 2	91.0%
trans-1,3-Dichloropropene	< 0.5	UIP's	0.
Ethylbenzene	< 0.5		



LABORATORY REPORT

Lincoln Applied Geology
163 Revell Drive
Lincoln, VT 05443
Attn: Dagan Murray

PROJECT: Herber Residence
ORDER ID: 44173
RECEIVE DATE: April 10, 2006
REPORT DATE: May 3, 2006

Enclosed please find the results of the analyses performed for the samples referenced on the attached chain of custody. Different groups of analyses may be reported under separate cover.

All samples were prepared and analyzed by requirements outlined in the referenced methods and within the specified holding times.

All instrumentation was calibrated with the appropriate frequency and verified by the requirements outlined in the referenced methods.

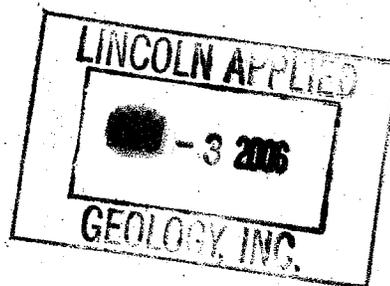
Blank contamination was not observed at levels affecting the analytical results.

Analytical method precision and accuracy was monitored by laboratory control standards which include matrix spike, duplicate and quality control analyses. These standards were determined to be within established laboratory method acceptance limits, unless otherwise noted.

Reviewed by,

Harry B. Locker, Ph.D.
Laboratory Director

enclosures





LABORATORY REPORT

EPA 524.2

CLIENT: Lincoln Applied Geology
 PROJECT: Herber Residence
 SITE: Supply Well
 DATE RECEIVED: April 10, 2006
 REPORT DATE: May 3, 2006
 ANALYSIS DATE: April 19, 2006

ORDER ID: 44173
 REFERENCE NUMBER: 271704
 DATE SAMPLED: April 7, 2006
 TIME SAMPLED: 1:13 PM
 SAMPLER: DM
 ANALYST: 725

<u>Parameter</u>	<u>Result</u> <u>ug/L</u>	<u>Parameter</u>	<u>Result</u> <u>ug/L</u>
Benzene	< 0.5	Hexachlorobutadiene	< 0.5
Bromobenzene	< 0.5	Isopropylbenzene	< 0.5
Bromomethane	< 0.5	4-Isopropyltoluene	< 0.5
Bromochloromethane	< 0.5	Naphthalene	< 1.0
n-Butylbenzene	< 0.5	MTBE	< 1.0
sec-Butylbenzene	< 0.5	n-Propylbenzene	< 0.5
tert-Butylbenzene	< 0.5	Styrene	< 0.5
Carbon tetrachloride	< 0.5	1,1,1,2-Tetrachloroethane	< 0.5
Chlorobenzene	< 0.5	1,1,2,2-Tetrachloroethane	< 1.0
Chloroethane	< 0.5	Tetrachloroethene	< 0.5
Chloromethane	< 1.0	Toluene	< 0.5
2-Chlorotoluene	< 0.5	1,2,3-Trichlorobenzene	< 0.5
4-Chlorotoluene	< 0.5	1,2,4-Trichlorobenzene	< 0.5
Dibromomethane	< 1.0	1,1,1-Trichloroethane	< 0.5
Dichloromethane	< 2.0	1,1,2-Trichloroethane	< 0.5
Dichlorodifluoromethane	< 0.5	Trichloroethene	< 0.5
1,2-Dichlorobenzene	< 0.5	Trichlorofluoromethane	< 1.0
1,3-Dichlorobenzene	< 0.5	1,2,3-Trichloropropane	< 0.5
1,4-Dichlorobenzene	< 0.5	1,2,4-Trimethylbenzene	< 0.5
1,2-Dichloroethane	< 0.5	1,3,5-Trimethylbenzene	< 0.5
1,1-Dichloroethane	< 0.5	Vinyl Chloride	< 0.5
1,1-Dichloroethene	< 0.5	Xylenes, Total	< 1.0
cis-1,2-Dichloroethene	< 0.5	Bromodichloromethane	< 0.5
trans-1,2-Dichloroethene	< 0.5	Chloroform	< 0.5
1,2-Dichloropropane	< 0.5	Dibromochloromethane	< 0.5
1,3-Dichloropropane	< 0.5	Bromoform	< 0.5
2,2-Dichloropropane	< 1.0	Total Trihalomethanes	< 0.5
1,1-Dichloropropene	< 0.5	Surrogate 1	95.0%
cis-1,3-Dichloropropene	< 0.5	Surrogate 2	93.0%
trans-1,3-Dichloropropene	< 0.5	UIP's	0
Ethylbenzene	< 0.5		



ENDYNE, INC.

Laboratory Services

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LABORATORY REPORT

Lincoln Applied Geology
163 Revell Drive
Lincoln, VT 05443
Attn: Dagen Murray

PROJECT: Herber Residence
ORDER ID: 44481
RECEIVE DATE: April 26, 2006
REPORT DATE: May 4, 2006

Enclosed please find the results of the analyses performed for the samples referenced on the attached chain of custody. Different groups of analyses may be reported under separate cover.

All samples were prepared and analyzed by requirements outlined in the referenced methods and within the specified holding times.

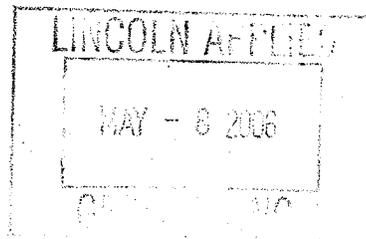
All instrumentation was calibrated with the appropriate frequency and verified by the requirements outlined in the referenced methods.

Blank contamination was not observed at levels affecting the analytical results.

Analytical method precision and accuracy was monitored by laboratory control standards which include matrix spike, duplicate and quality control analyses. These standards were determined to be within established laboratory method acceptance limits, unless otherwise noted.

Reviewed by,

Harry B. Locker, Ph.D.
Laboratory Director



enclosures





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Williston, Vermont 05495
(802) 879-4333
FAX 879-7103

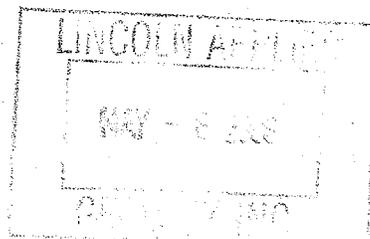
LABORATORY REPORT

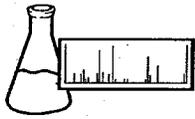
EPA 524.2

CLIENT: Lincoln Applied Geology
PROJECT: Herber Residence
SITE: Laso Well
DATE RECEIVED: April 26, 2006
REPORT DATE: May 4, 2006
ANALYSIS DATE: May 2, 2006

ORDER ID: 44481
REFERENCE NUMBER: 272749
DATE SAMPLED: April 25, 2006
TIME SAMPLED: 11:30 AM
SAMPLER: KH
ANALYST: 725

<u>Parameter</u>	<u>Result</u> <u>ug/L</u>	<u>Parameter</u>	<u>Result</u> <u>ug/L</u>
Benzene	< 0.5	Hexachlorobutadiene	< 0.5
Bromobenzene	< 0.5	Isopropylbenzene	< 0.5
Bromomethane	< 0.5	4-Isopropyltoluene	< 0.5
Bromochloromethane	< 0.5	Naphthalene	< 1.0
n-Butylbenzene	< 0.5	MTBE	< 1.0
sec-Butylbenzene	< 0.5	n-Propylbenzene	< 0.5
tert-Butylbenzene	< 0.5	Styrene	< 0.5
Carbon tetrachloride	< 0.5	1,1,1,2-Tetrachloroethane	< 0.5
Chlorobenzene	< 0.5	1,1,2,2-Tetrachloroethane	< 1.0
Chloroethane	< 0.5	Tetrachloroethene	< 0.5
Chloromethane	< 1.0	Toluene	< 0.5
2-Chlorotoluene	< 0.5	1,2,3-Trichlorobenzene	< 0.5
4-Chlorotoluene	< 0.5	1,2,4-Trichlorobenzene	< 0.5
Dibromomethane	< 1.0	1,1,1-Trichloroethane	< 0.5
Dichloromethane	< 2.0	1,1,2-Trichloroethane	< 0.5
Dichlorodifluoromethane	< 0.5	Trichloroethene	< 0.5
1,2-Dichlorobenzene	< 0.5	Trichlorofluoromethane	< 1.0
1,3-Dichlorobenzene	< 0.5	1,2,3-Trichloropropane	< 0.5
1,4-Dichlorobenzene	< 0.5	1,2,4-Trimethylbenzene	< 0.5
1,2-Dichloroethane	< 0.5	1,3,5-Trimethylbenzene	< 0.5
1,1-Dichloroethane	< 0.5	Vinyl Chloride	< 0.5
1,1-Dichloroethene	< 0.5	Xylenes, Total	< 1.0
cis-1,2-Dichloroethene	< 0.5	Bromodichloromethane	< 0.5
trans-1,2-Dichloroethene	< 0.5	Chloroform	< 0.5
1,2-Dichloropropane	< 0.5	Dibromochloromethane	< 0.5
1,3-Dichloropropane	< 0.5	Bromoform	< 0.5
2,2-Dichloropropane	< 1.0	Total Trihalomethanes	< 0.5
1,1-Dichloropropene	< 0.5	Surrogate 1	92%
cis-1,3-Dichloropropene	< 0.5	Surrogate 2	91%
trans-1,3-Dichloropropene	< 0.5	UIP's	0.
Ethylbenzene	< 0.5		





ENDYNE, INC.

Laboratory Services

160 James Brown Drive
Williston, Vermont 05495
(802) 879-4333
FAX 879-7103

LABORATORY REPORT

Lincoln Applied Geology
163 Revell Drive
Lincoln, VT 05443
Attn: Dagan Murray

PROJECT: Herber Residence
ORDER ID: 44607
RECEIVE DATE: May 2, 2006
REPORT DATE: May 4, 2006

Enclosed please find the results of the analyses performed for the samples referenced on the attached chain of custody. Different groups of analyses may be reported under separate cover.

All samples were prepared and analyzed by requirements outlined in the referenced methods and within the specified holding times.

All instrumentation was calibrated with the appropriate frequency and verified by the requirements outlined in the referenced methods.

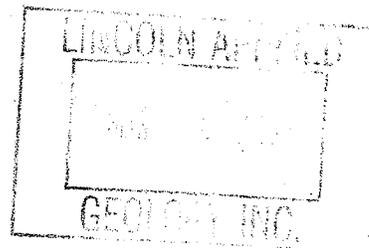
Blank contamination was not observed at levels affecting the analytical results.

Analytical method precision and accuracy was monitored by laboratory control standards which include matrix spike, duplicate and quality control analyses. These standards were determined to be within established laboratory method acceptance limits, unless otherwise noted.

Reviewed by,

Harry B. Locker, Ph.D.
Laboratory Director

enclosures





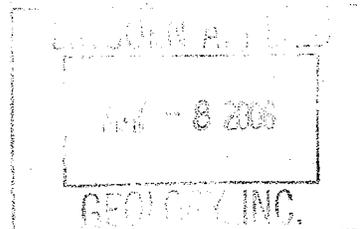
LABORATORY REPORT

EPA 524.2

CLIENT: Lincoln Applied Geology
PROJECT: Herber Residence
SITE: Hults Supply
DATE RECEIVED: May 2, 2006
REPORT DATE: May 4, 2006
ANALYSIS DATE: May 3, 2006

ORDER ID: 44607
REFERENCE NUMBER: 273130
DATE SAMPLED: May 2, 2006
TIME SAMPLED: 4:10 PM
SAMPLER: DM
ANALYST: 725

<u>Parameter</u>	<u>Result</u> <u>ug/L</u>	<u>Parameter</u>	<u>Result</u> <u>ug/L</u>
Benzene	< 0.5	Hexachlorobutadiene	< 0.5
Bromobenzene	< 0.5	Isopropylbenzene	< 0.5
Bromomethane	< 0.5	4-Isopropyltoluene	< 0.5
Bromochloromethane	< 0.5	Naphthalene	< 1.0
n-Butylbenzene	< 0.5	MTBE	< 1.0
sec-Butylbenzene	< 0.5	n-Propylbenzene	< 0.5
tert-Butylbenzene	< 0.5	Styrene	< 0.5
Carbon tetrachloride	< 0.5	1,1,1,2-Tetrachloroethane	< 0.5
Chlorobenzene	< 0.5	1,1,2,2-Tetrachloroethane	< 1.0
Chloroethane	< 0.5	Tetrachloroethene	< 0.5
Chloromethane	< 1.0	Toluene	< 0.5
2-Chlorotoluene	< 0.5	1,2,3-Trichlorobenzene	< 0.5
4-Chlorotoluene	< 0.5	1,2,4-Trichlorobenzene	< 0.5
Dibromomethane	< 1.0	1,1,1-Trichloroethane	< 0.5
Dichloromethane	< 1.0	1,1,2-Trichloroethane	< 0.5
Dichlorodifluoromethane	< 0.5	Trichloroethene	< 0.5
1,2-Dichlorobenzene	< 0.5	Trichlorofluoromethane	< 1.0
1,3-Dichlorobenzene	< 0.5	1,2,3-Trichloropropane	< 0.5
1,4-Dichlorobenzene	< 0.5	1,2,4-Trimethylbenzene	< 0.5
1,2-Dichloroethane	< 0.5	1,3,5-Trimethylbenzene	< 0.5
1,1-Dichloroethane	< 0.5	Vinyl Chloride	< 0.5
1,1-Dichloroethene	< 0.5	Xylenes, Total	< 1.0
cis-1,2-Dichloroethene	< 0.5	Bromodichloromethane	< 0.5
trans-1,2-Dichloroethene	< 0.5	Chloroform	< 0.5
1,2-Dichloropropane	< 0.5	Dibromochloromethane	< 0.5
1,3-Dichloropropane	< 0.5	Bromoform	< 0.5
2,2-Dichloropropane	< 1.0	Total Trihalomethanes	< 0.5
1,1-Dichloropropene	< 0.5	Surrogate 1	88.0
cis-1,3-Dichloropropene	< 0.5	Surrogate 2	87.0
trans-1,3-Dichloropropene	< 0.5	UIP's	0.
Ethylbenzene	< 0.5		





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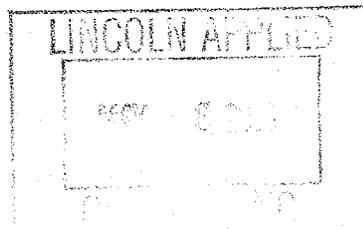
LABORATORY REPORT

EPA 524.2

CLIENT: Lincoln Applied Geology
PROJECT: Herber Residence
SITE: Whitehurst Supply
DATE RECEIVED: May 2, 2006
REPORT DATE: May 4, 2006
ANALYSIS DATE: May 3, 2006

ORDER ID: 44607
REFERENCE NUMBER: 273131
DATE SAMPLED: May 2, 2006
TIME SAMPLED: 4:32 PM
SAMPLER: DM
ANALYST: 725

<u>Parameter</u>	<u>Result</u> <u>ug/L</u>	<u>Parameter</u>	<u>Result</u> <u>ug/L</u>
Benzene	< 0.5	Hexachlorobutadiene	< 0.5
Bromobenzene	< 0.5	Isopropylbenzene	< 0.5
Bromomethane	< 0.5	4-Isopropyltoluene	< 0.5
Bromochloromethane	< 0.5	Naphthalene	< 1.0
n-Butylbenzene	< 0.5	MTBE	< 1.0
sec-Butylbenzene	< 0.5	n-Propylbenzene	< 0.5
tert-Butylbenzene	< 0.5	Styrene	< 0.5
Carbon tetrachloride	< 0.5	1,1,1,2-Tetrachloroethane	< 0.5
Chlorobenzene	< 0.5	1,1,2,2-Tetrachloroethane	< 1.0
Chloroethane	< 0.5	Tetrachloroethene	< 0.5
Chloromethane	< 1.0	Toluene	< 0.5
2-Chlorotoluene	< 0.5	1,2,3-Trichlorobenzene	< 0.5
4-Chlorotoluene	< 0.5	1,2,4-Trichlorobenzene	< 0.5
Dibromomethane	< 1.0	1,1,1-Trichloroethane	< 0.5
Dichloromethane	< 1.0	1,1,2-Trichloroethane	< 0.5
Dichlorodifluoromethane	< 0.5	Trichloroethene	< 0.5
1,2-Dichlorobenzene	< 0.5	Trichlorofluoromethane	< 1.0
1,3-Dichlorobenzene	< 0.5	1,2,3-Trichloropropane	< 0.5
1,4-Dichlorobenzene	< 0.5	1,2,4-Trimethylbenzene	< 0.5
1,2-Dichloroethane	< 0.5	1,3,5-Trimethylbenzene	< 0.5
1,1-Dichloroethane	< 0.5	Vinyl Chloride	< 0.5
1,1-Dichloroethene	< 0.5	Xylenes, Total	< 1.0
cis-1,2-Dichloroethene	< 0.5	Bromodichloromethane	< 0.5
trans-1,2-Dichloroethene	< 0.5	Chloroform	< 0.5
1,2-Dichloropropane	< 0.5	Dibromochloromethane	< 0.5
1,3-Dichloropropane	< 0.5	Bromoform	< 0.5
2,2-Dichloropropane	< 1.0	Total Trihalomethanes	< 0.5
1,1-Dichloropropene	< 0.5	Surrogate 1	99.9%
cis-1,3-Dichloropropene	< 0.5	Surrogate 2	94.4%
trans-1,3-Dichloropropene	< 0.5	UIP's	0.
Ethylbenzene	< 0.5		





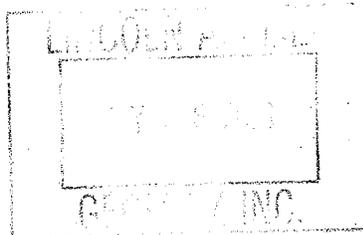
LABORATORY REPORT

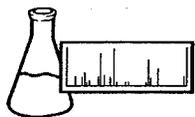
EPA 524.2

CLIENT: Lincoln Applied Geology
PROJECT: Herber Residence
SITE: Shackett Supply
DATE RECEIVED: May 2, 2006
REPORT DATE: May 4, 2006
ANALYSIS DATE: May 3, 2006

ORDER ID: 44607
REFERENCE NUMBER: 273132
DATE SAMPLED: May 2, 2006
TIME SAMPLED: 4:43 PM
SAMPLER: DM
ANALYST: 725

<u>Parameter</u>	<u>Result</u> <u>ug/L</u>	<u>Parameter</u>	<u>Result</u> <u>ug/L</u>
Benzene	< 0.5	Hexachlorobutadiene	< 0.5
Bromobenzene	< 0.5	Isopropylbenzene	< 0.5
Bromomethane	< 0.5	4-Isopropyltoluene	< 0.5
Bromochloromethane	< 0.5	Naphthalene	< 1.0
n-Butylbenzene	< 0.5	MTBE	< 1.0
sec-Butylbenzene	< 0.5	n-Propylbenzene	< 0.5
tert-Butylbenzene	< 0.5	Styrene	< 0.5
Carbon tetrachloride	< 0.5	1,1,1,2-Tetrachloroethane	< 0.5
Chlorobenzene	< 0.5	1,1,2,2-Tetrachloroethane	< 1.0
Chloroethane	< 0.5	Tetrachloroethene	< 0.5
Chloromethane	< 1.0	Toluene	< 0.5
2-Chlorotoluene	< 0.5	1,2,3-Trichlorobenzene	< 0.5
4-Chlorotoluene	< 0.5	1,2,4-Trichlorobenzene	< 0.5
Dibromomethane	< 1.0	1,1,1-Trichloroethane	< 0.5
Dichloromethane	< 1.0	1,1,2-Trichloroethane	< 0.5
Dichlorodifluoromethane	< 0.5	Trichloroethene	< 0.5
1,2-Dichlorobenzene	< 0.5	Trichlorofluoromethane	< 1.0
1,3-Dichlorobenzene	< 0.5	1,2,3-Trichloropropane	< 0.5
1,4-Dichlorobenzene	< 0.5	1,2,4-Trimethylbenzene	< 0.5
1,2-Dichloroethane	< 0.5	1,3,5-Trimethylbenzene	< 0.5
1,1-Dichloroethane	< 0.5	Vinyl Chloride	< 0.5
1,1-Dichloroethene	< 0.5	Xylenes, Total	< 1.0
cis-1,2-Dichloroethene	< 0.5	Bromodichloromethane	< 0.5
trans-1,2-Dichloroethene	< 0.5	Chloroform	< 0.5
1,2-Dichloropropane	< 0.5	Dibromochloromethane	< 0.5
1,3-Dichloropropane	< 0.5	Bromoform	< 0.5
2,2-Dichloropropane	< 1.0	Total Trihalomethanes	< 0.5
1,1-Dichloropropene	< 0.5	Surrogate 1	91%
cis-1,3-Dichloropropene	< 0.5	Surrogate 2	91%
trans-1,3-Dichloropropene	< 0.5	UIP's	0.
Ethylbenzene	< 0.5		





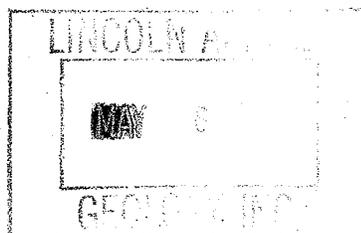
LABORATORY REPORT

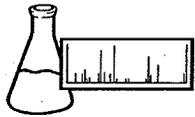
EPA 524.2

CLIENT: Lincoln Applied Geology
PROJECT: Herber Residence
SITE: Harthshorn Supply
DATE RECEIVED: May 2, 2006
REPORT DATE: May 4, 2006
ANALYSIS DATE: May 3, 2006

ORDER ID: 44607
REFERENCE NUMBER: 273133
DATE SAMPLED: May 2, 2006
TIME SAMPLED: 4:55 PM
SAMPLER: DM
ANALYST: 725

Parameter	Result ug/L	Parameter	Result ug/L
Benzene	< 0.5	Hexachlorobutadiene	< 0.5
Bromobenzene	< 0.5	Isopropylbenzene	< 0.5
Bromomethane	< 0.5	4-Isopropyltoluene	< 0.5
Bromochloromethane	< 0.5	Naphthalene	< 1.0
n-Butylbenzene	< 0.5	MTBE	< 1.0
sec-Butylbenzene	< 0.5	n-Propylbenzene	< 0.5
tert-Butylbenzene	< 0.5	Styrene	< 0.5
Carbon tetrachloride	< 0.5	1,1,1,2-Tetrachloroethane	< 0.5
Chlorobenzene	< 0.5	1,1,2,2-Tetrachloroethane	< 1.0
Chloroethane	< 0.5	Tetrachloroethene	< 0.5
Chloromethane	< 1.0	Toluene	< 0.5
2-Chlorotoluene	< 0.5	1,2,3-Trichlorobenzene	< 0.5
4-Chlorotoluene	< 0.5	1,2,4-Trichlorobenzene	< 0.5
Dibromomethane	< 1.0	1,1,1-Trichloroethane	< 0.5
Dichloromethane	< 1.0	1,1,2-Trichloroethane	< 0.5
Dichlorodifluoromethane	< 0.5	Trichloroethene	< 0.5
1,2-Dichlorobenzene	< 0.5	Trichlorofluoromethane	< 1.0
1,3-Dichlorobenzene	< 0.5	1,2,3-Trichloropropane	< 0.5
1,4-Dichlorobenzene	< 0.5	1,2,4-Trimethylbenzene	< 0.5
1,2-Dichloroethane	< 0.5	1,3,5-Trimethylbenzene	< 0.5
1,1-Dichloroethane	< 0.5	Vinyl Chloride	< 0.5
1,1-Dichloroethene	< 0.5	Xylenes, Total	< 1.0
cis-1,2-Dichloroethene	< 0.5	Bromodichloromethane	< 0.5
trans-1,2-Dichloroethene	< 0.5	Chloroform	< 0.5
1,2-Dichloropropane	< 0.5	Dibromochloromethane	< 0.5
1,3-Dichloropropane	< 0.5	Bromoform	< 0.5
2,2-Dichloropropane	< 1.0	Total Trihalomethanes	< 0.5
1,1-Dichloropropene	< 0.5	Surrogate 1	93%
cis-1,3-Dichloropropene	< 0.5	Surrogate 2	91%
trans-1,3-Dichloropropene	< 0.5	UIP's	0.
Ethylbenzene	< 0.5		





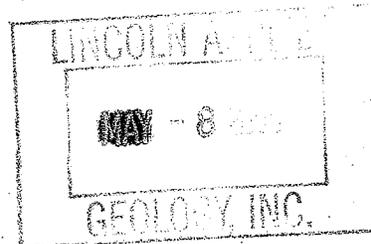
LABORATORY REPORT

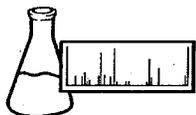
EPA 524.2

CLIENT: Lincoln Applied Geology
PROJECT: Herber Residence
SITE: Walch Supply
DATE RECEIVED: May 2, 2006
REPORT DATE: May 4, 2006
ANALYSIS DATE: May 3, 2006

ORDER ID: 44607
REFERENCE NUMBER: 273134
DATE SAMPLED: May 2, 2006
TIME SAMPLED: 5:10 PM
SAMPLER: DM
ANALYST: 725

<u>Parameter</u>	<u>Result</u> <u>ug/L</u>	<u>Parameter</u>	<u>Result</u> <u>ug/L</u>
Benzene	< 0.5	Hexachlorobutadiene	< 0.5
Bromobenzene	< 0.5	Isopropylbenzene	< 0.5
Bromomethane	< 0.5	4-Isopropyltoluene	< 0.5
Bromochloromethane	< 0.5	Naphthalene	< 1.0
n-Butylbenzene	< 0.5	MTBE	< 1.0
sec-Butylbenzene	< 0.5	n-Propylbenzene	< 0.5
tert-Butylbenzene	< 0.5	Styrene	< 0.5
Carbon tetrachloride	< 0.5	1,1,1,2-Tetrachloroethane	< 0.5
Chlorobenzene	< 0.5	1,1,2,2-Tetrachloroethane	< 1.0
Chloroethane	< 0.5	Tetrachloroethene	< 0.5
Chloromethane	< 1.0	Toluene	< 0.5
2-Chlorotoluene	< 0.5	1,2,3-Trichlorobenzene	< 0.5
4-Chlorotoluene	< 0.5	1,2,4-Trichlorobenzene	< 0.5
Dibromomethane	< 1.0	1,1,1-Trichloroethane	< 0.5
Dichloromethane	< 1.0	1,1,2-Trichloroethane	< 0.5
Dichlorodifluoromethane	< 0.5	Trichloroethene	< 0.5
1,2-Dichlorobenzene	< 0.5	Trichlorofluoromethane	< 1.0
1,3-Dichlorobenzene	< 0.5	1,2,3-Trichloropropane	< 0.5
1,4-Dichlorobenzene	< 0.5	1,2,4-Trimethylbenzene	< 0.5
1,1-Dichloroethane	< 0.5	1,3,5-Trimethylbenzene	< 0.5
1,2-Dichloroethane	< 0.5	Vinyl Chloride	< 0.5
1,1-Dichloroethene	< 0.5	Xylenes, Total	< 1.0
cis-1,2-Dichloroethene	< 0.5	Bromodichloromethane	< 0.5
trans-1,2-Dichloroethene	< 0.5	Chloroform	< 0.5
1,2-Dichloropropane	< 0.5	Dibromochloromethane	< 0.5
1,3-Dichloropropane	< 0.5	Bromoform	< 0.5
2,2-Dichloropropane	< 1.0	Total Trihalomethanes	< 0.5
1,1-Dichloropropene	< 0.5	Surrogate 1	94.0%
cis-1,3-Dichloropropene	< 0.5	Surrogate 2	95.0%
trans-1,3-Dichloropropene	< 0.5	UIP's	0.0
Ethylbenzene	< 0.5		





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Williston, Vermont 05495
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FAX 879-7103

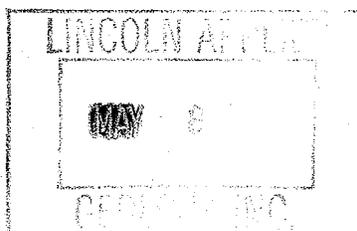
LABORATORY REPORT

EPA 524.2

CLIENT: Lincoln Applied Geology
PROJECT: Herber Residence
SITE: Baird Supply
DATE RECEIVED: May 2, 2006
REPORT DATE: May 4, 2006
ANALYSIS DATE: May 3, 2006

ORDER ID: 44607
REFERENCE NUMBER: 273135
DATE SAMPLED: May 2, 2006
TIME SAMPLED: 5:45 PM
SAMPLER: DM
ANALYST: 725

Parameter	Result	Parameter	Result
	ug/L		ug/L
Benzene	< 0.5	Hexachlorobutadiene	< 0.5
Bromobenzene	< 0.5	Isopropylbenzene	< 0.5
Bromomethane	< 0.5	4-Isopropyltoluene	< 0.5
Bromochloromethane	< 0.5	Naphthalene	< 1.0
n-Butylbenzene	< 0.5	MTBE	< 1.0
sec-Butylbenzene	< 0.5	n-Propylbenzene	< 0.5
tert-Butylbenzene	< 0.5	Styrene	< 0.5
Carbon tetrachloride	< 0.5	1,1,1,2-Tetrachloroethane	< 0.5
Chlorobenzene	< 0.5	1,1,2,2-Tetrachloroethane	< 1.0
Chloroethane	< 0.5	Tetrachloroethene	< 0.5
Chloromethane	< 1.0	Toluene	< 0.5
2-Chlorotoluene	< 0.5	1,2,3-Trichlorobenzene	< 0.5
4-Chlorotoluene	< 0.5	1,2,4-Trichlorobenzene	< 0.5
Dibromomethane	< 1.0	1,1,1-Trichloroethane	< 0.5
Dichloromethane	< 1.0	1,1,2-Trichloroethane	< 0.5
Dichlorodifluoromethane	< 0.5	Trichloroethene	< 0.5
1,2-Dichlorobenzene	< 0.5	Trichlorofluoromethane	< 1.0
1,3-Dichlorobenzene	< 0.5	1,2,3-Trichloropropane	< 0.5
1,4-Dichlorobenzene	< 0.5	1,2,4-Trimethylbenzene	< 0.5
1,1-Dichloroethane	< 0.5	1,3,5-Trimethylbenzene	< 0.5
1,2-Dichloroethane	< 0.5	Vinyl Chloride	< 0.5
1,1-Dichloroethene	< 0.5	Xylenes, Total	< 1.0
cis-1,2-Dichloroethene	< 0.5	Bromodichloromethane	< 0.5
trans-1,2-Dichloroethene	< 0.5	Chloroform	< 0.5
1,2-Dichloropropane	< 0.5	Dibromochloromethane	< 0.5
1,3-Dichloropropane	< 0.5	Bromoform	< 0.5
2,2-Dichloropropane	< 1.0	Total Trihalomethanes	< 0.5
1,1-Dichloropropene	< 0.5	Surrogate 1	91%
cis-1,3-Dichloropropene	< 0.5	Surrogate 2	94%
trans-1,3-Dichloropropene	< 0.5	UIP's	0.
Ethylbenzene	< 0.5		





ENDYNE, INC.
 160 James Brown Drive
 Williston, Vermont 05495
 (802) 879-4383

CHAIN-OF-CUSTODY-RECORD

DOB # 06040

Special Reporting Instructions:

MAV - 8 11 00

83593

Project Name: **Herber Residence**

Reporting Address: **LAC**

Billing Address: **LAC**

Endyne Order ID: **44607**

Company: **DAN MURRAY**

Sampler Name: **DMM**

(Lab Use Only) **-1**

Contact Name/Phone #: **802-453-4384**

Phone #:

Ref # (Lab Use Only)	Sample Identification	Matrix	Container A B C M P	Date/Time	Sample Containers No. Type/Size	Field Results/Remarks	Analysis Required	Sample Preservation	Rush
	HHTS Supply	HAO	X	5/11/06	3 40ml		39	HCL	3-0M
	Whitcomb Supply			16:30					
	Shackett Supply			16:43					
	Harshorn Supply			16:55					
	Jaldh Supply			7:10					
	Basid Supply			7:45					

Relinquished by: *[Signature]* Date/Time: **5/11/06 9:09**

Received by: *[Signature]* Date/Time: **5/11/06 11:05**

New York State Project: Yes No

Requested Analyses: **stake nos**

1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34
	pH	TKN	Total Solids	Sulfate	1664 TPH/FOG	8270 PAH																											
	Chloride	Total P	TSS	Coliform (Specify)	8015 GRO	PP13 Metals																											
	Ammonia N	Total Diss. P	TDS	COD	8015 DRO	RCRA8 Metals																											
	Nitrite N	BOD	Turbidity		8260/8260B																												
	Nitrate N	Alkalinity	Conductivity		8270 B/N or Acid																												
	Metals (As Is, Total, Diss.) Ag, Al, As, B, Ba, Be, Ca, Cd, Co, Cr, Cu, Fe, Hg, K, Mg, Mn, Mo, Na, Ni, Pb, Sb, Se, Ti, V, Zn																																
	TCLP (Specify: volatiles, semi-volatiles, metals, pesticides, herbicides)																																
	Other																																

LAB USE ONLY
 Delivery Temp: *[Signature]*
 Comment: *[Signature]*

(White, Yellow - Laboratory / Pink - Client)

Appendix E

**Surface Water Quality Laboratory Report
April 25, 2006**

DM



Laboratory Services

160 James Brown Drive
Williston, Vermont 05495
(802) 879-4333
FAX 879-7103

LABORATORY REPORT

Lincoln Applied Geology
163 Revell Drive
Lincoln, VT 05443
Attn: Dagen Murray

PROJECT: Herber Residence
ORDER ID: 44481
RECEIVE DATE: April 26, 2006
REPORT DATE: May 3, 2006

Enclosed please find the results of the analyses performed for the samples referenced on the attached chain of custody. Different groups of analyses may be reported under separate cover.

All samples were prepared and analyzed by requirements outlined in the referenced methods and within the specified holding times.

All instrumentation was calibrated with the appropriate frequency and verified by the requirements outlined in the referenced methods.

Blank contamination was not observed at levels affecting the analytical results.

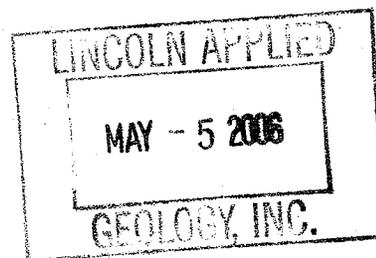
Analytical method precision and accuracy was monitored by laboratory control standards which include matrix spike, duplicate and quality control analyses. These standards were determined to be within established laboratory method acceptance limits, unless otherwise noted.

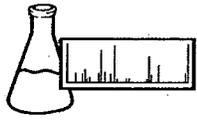
Reviewed by,

A handwritten signature in black ink, appearing to be "H. Locker", written over a white background.

Harry B. Locker, Ph.D.
Laboratory Director

enclosures





LABORATORY REPORT

CLIENT: Lincoln Applied Geology

ORDER ID: 44481

PROJECT: Herber Residence

DATE RECEIVED: April 26, 2006

REPORT DATE: May 3, 2006

SAMPLER: KH

ANALYST: 503

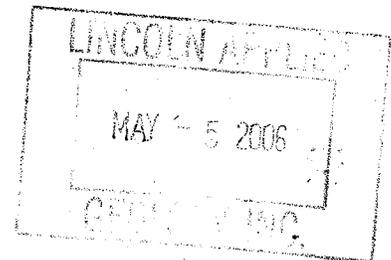
Ref. Number: 272748

Site: Surface Water

Date Sampled: April 25, 2006

Time: 11:15 AM

<u>Parameter</u>	<u>Result</u>	<u>Unit</u>	<u>Method</u>	<u>Analysis Date</u>
MTBE	<2.0	ug/L	SW 8021B	4/29/2006
Benzene	<1.0	ug/L	SW 8021B	4/29/2006
Toluene	<1.0	ug/L	SW 8021B	4/29/2006
Ethylbenzene	<1.0	ug/L	SW 8021B	4/29/2006
Xylenes, Total	<2.0	ug/L	SW 8021B	4/29/2006
1,3,5 Trimethyl Benzene	<1.0	ug/L	SW 8021B	4/29/2006
1,2,4 Trimethyl Benzene	<1.0	ug/L	SW 8021B	4/29/2006
Naphthalene	<1.0	ug/L	SW 8021B	4/29/2006
UIP's	0.		SW 8021B	4/29/2006
Surrogate 1	95.0%	%	SW 8021B	4/29/2006



Appendix F

Soil Transportation Documentation & Destruction Certificate

Certificate of Treatment & Recycling

ESMI of New York hereby acknowledges the *Treatment & Recycling*

of 82.37 tons of Kerosene Contaminated Soils from

The Herber Residence

Castleton, VT

by

Thermal Desorption

Certificate No. 062806-7595

Issued To: Lincoln Applied Geology

By: 
Peter C. Hansen, Compliance Manager
Environmental Soil Management of New York, LLC

New York State DDC Permit No. 5-5330-00038-00019

From Customer: LAG10 To: LAG10
 From Order: 7595 To: 7595
 From Material: To: zzzzzzzz

From: 5/18/2006 To: 5/19/2006

---Ticket---		Truck/Trl'r	Mat'l	---Material---		-----Revenue-----			
Date	Number	ID	ID	Unit	Net	Mat'l	Delivery	Tax/Misc.	Total
Customer: LAG10									
Order: 7595									
5/18/06	2024281	C-813A	KE01		25.50	tn			
5/18/06	2024282	NT-1	KE01		15.15	tn			
5/18/06	2024288	CH-72	KE01		20.76	tn			
5/18/06	2024289	CH-66	KE01		20.96	tn			
02 KEROSENE Totals					82.370	tn			
HERBER RESIDENCE Totals					82.370	tn			
6826 MONUMENT HILL RD CASTLETON, VT									
LINCOLN APPLIED GEOLOGY Totals					82.370	tn			
Grand Totals					82.37	tn			

ESMI OF NEW YORK
304 Towpath Road
Fort Edward, New York 12828

(518)747-5500

Ticket No : 2024281
Date : 5/18/2006

Max. Acceptable Soil: 150.00

Customer: LAG10
LINCOLN APPLIED GEOLOGY
163 REVELL DRIVE
LINCOLN, VT 05443

Job No : 7595
HERBER RESIDENCE
6826 MONUMENT HILL RD
CASTLETON VT
Running Tonnage: 25.50

Trucker:
C-813A CEDAR HILL/CASON

Gross : 85240 Scale 1 In 10:36:12AM
Tare : 34240 STORED Out

KE01 02 KEROSENE

Net : 51000 lb
25.500

Weigh Master: *Kim Matteson* #530022

Material \$
Delivery \$
Misc \$
Tax \$

Driver:

Remarks:

Total \$

Cason Inc.

PO Box 443
Voorheesville, NY 12186
Phone (888) 302-2766
Fax (315) 689-5277

NON - HAZARDOUS WASTE MANIFEST

GENERATOR

Generator Name: Herber Residence Generating Location: _____
Address: 6826 Monument Hill Address: 6826 Monument Hill Rd
Castleton V.T Castleton V.T
Phone No. (____) _____ Phone No. (____) _____

Signature: _____

Description of Waste Check

Check Type

Quantity

Oil Soaked Dirt/Debris N816 Kerosene

Gas Soaked Dirt/Debris N816 _____

Other Specify _____

Yards _____

Tons

25.50

Jim Matter
5/18/06

TRANSPORTER

N.Y.S. D.E.C. Permit # 4A - 267 Date of Shipment: 5-18-06
Transporter Name: Cason Inc Vehicle License No. AD09439
Address: PO Box 443
Voorheesville, NY Vehicle Description: _____
Phone No. (518) 515-7223
Driver Name: Gar 101
Driver Signature: Gar 101

DESTINATION

Site Name: ESME - 518-720 5502 Phone No. (802) 453-4384
Address: Fontenaywood VT Contact Person: DAGAN MURRAY (LAG)
Signature: [Signature]

ESMI OF NEW YORK
304 Towpath Road
Fort Edward, New York 12828

(518)747-5500

Ticket No : 2024282
Date : 5/18/2006

Max. Acceptable Soil: 150.00

Customer: LAG10
LINCOLN APPLIED GEOLOGY
163 REVELL DRIVE
LINCOLN, VT 05443

Job No : 7595
HERBER RESIDENCE
6826 MONUMENT HILL RD
CASTLETON VT
Running Tonnage: 40.65

Trucker:
NT-1 NON TYPICAL TRUCKING

Gross : 70080 Scale 1 In 10:37:50AM
Tare : 39780 Scale 1 Out 10:56:43AM

KE01 02 KEROSENE

Net : 30300 lb
15.150

Weigh Master: *Kim Matteson* #530022

Material \$
Delivery \$
Misc \$
Tax \$

Driver: *[Signature]*

Remarks:

Total \$

Cason Inc.

PO Box 443
Voorheesville, NY 12186
Phone (888) 302-2766
Fax (315) 689-5277

NON - HAZARDOUS WASTE MANIFEST

GENERATOR

Generator Name: Herber Residence Generating Location: _____
Address: 6826 Monument Hill Address: _____
Castleton
Phone No. (____) _____ Phone No. (____) _____

Signature: _____

Description of Waste

Check

Check Type

Quantity

Oil Soaked Dirt/Debris N816

Gas Soaked Dirt/Debris N816 _____

Other Specify _____

Yards _____

Tons

15.15

*Yonkers
5/18/06*

TRANSPORTER

N.Y.S. D.E.C. Permit # 4A - 267 Date of Shipment: 5/18/06
Transporter Name: Non Typical Trucking Vehicle License No. SP670-PA
Address: 28 Stoughton Lane
Burn NY 12023
Vehicle Description: _____
Phone No. (____) _____
Driver Name: Chad Clapper
Driver Signature: *Chad Clapper*

DESTINATION

Site Name: ESMI - 518 747-5500 Phone No. (802) 453-4384
Address: Foot road Contact Person: DAGAN MUMAY (LAG)
Signature: *Dagan Mumay*

ESMI OF NEW YORK
304 Towpath Road
Fort Edward, New York 12828

(518)747-5500

Ticket No : 2024288
Date : 5/18/2006

Max. Acceptable Soil: 150.00

Customer: LAGIO
LINCOLN APPLIED GEOLOGY
163 REVELL DRIVE
LINCOLN, VT 05443

Job No : 7595
HERBER RESIDENCE
6826 MONUMENT HILL RD
CASTLETON VT
Running Tonnage: 61.41

Trucker:
CH-72 CEDAR HILL

Gross : 76440 Scale 1 In 11:36:02AM
Tare : 34920 STORED Out

KE01 02 KEROSENE

Net : 41520 lb
20,760

Weigh Master: *Kim Matteson* #530022

Driver: *RS*

Remarks:

Material \$
Delivery \$
Misc \$
Tax \$

Total \$

22 min

CEDAR HILL TRUCKING INC.

1021 River Road Cedar Hill Selkirk, New York 12158 Phone 767-9608 • 767-2862

Nº

NON-HAZARDOUS WASTE MANIFEST

Generator Name Herben Residence Shipping Location Same
Address 6826 Mountain Rd Address Same
Castellano VT
Phone No. Phone No.

Approval Number

Description of Material
Non-Regulated Petroleum Contaminated Soil
Non DOT/RCRA Regulated

Table with 2 columns: Codes, and 4 rows: GROSS (76440), TARE (34920), NET (41520), TONNAGE (20.76)

I hereby certify that the above named material does not contain free liquid as defined by 40 CFR Part 260.10 or any applicable state law, is not a hazardous waste as defined by 40 CFR Part 261 or any applicable state law, has been properly described, classified and packaged, and is in proper condition for transportation according to applicable regulations.

Generator Authorized Agent Name Signature Jami Shipment Date 5-18-06

TRANSPORTER

Transporter Name Cedar Hill Driver Name (Print) JW
Address Same Vehicle License No./State AE-65955 NY
Truck Number #72

I hereby certify that the above named material was picked up at the generator site listed above.

I hereby certify that the above named material was delivered without incident to the destination listed below.

Driver Signature JW Shipment Date 5-18-06

Driver Signature JW Delivery Date 5-18-06

DESTINATION

Site Name ESMT of New York Phone No. 518-747-5500
Address 304 Treadwell Rd. FT EDWARD NY

I hereby certify that the above named material has been accepted and to the best of my knowledge the foregoing is true and accurate.

Name of Authorized Agent DAGAN MURRAY (Lincoln Applied Geology) Signature DMJ Receipt Date 5/18/06

ESMI OF NEW YORK
304 Towpath Road
Fort Edward, New York 12828

(518)747-5500

Ticket No : 2024289
Date : 5/18/2006

Max. Acceptable Soil: 150.00

Customer: LAG10
LINCOLN APPLIED GEOLOGY
163 REVELL DRIVE
LINCOLN, VT 05443

Job No : 7595
HERBER RESIDENCE
6826 MONUMENT HILL RD
CASTLETON VT
Running Tonnage: 82.37

Trucker:
CH-66 CEDAR HILL

Gross : 76680 Scale 1 In 11:37:30AM
Tare : 34760 STORED Out

KE01 02 KEROSENE

Net : 41920 lb
20.960

Weigh Master: *Kim Matteson* #530022

Driver: *Jim*

Remarks:

Material	\$
Delivery	\$
Misc	\$
Tax	\$
Total	\$

CEDAR HILL TRUCKING INC.

1021 River Road Cedar Hill Selkirk, New York 12158 Phone 767-9608 • 767-2862

No

NON-HAZARDOUS WASTE MANIFEST

Generator Name Herber Residence Shipping Location Address 6826 Mount Hill Rd Castleton VT 05735 Address Phone No. Phone No.

Approval Number

Description of Material Non-Regulated Petroleum Contaminated Soil Non DOT/RCRA Regulated

Table with 2 columns: Codes, and Gross/Tare/Net/Tonnage. Values: 76680, 34760, 41920, 2096.

I hereby certify that the above named material does not contain free liquid as defined by 40 CFR Part 260.10 or any applicable state law, is not a hazardous waste as defined by 40 CFR Part 261 or any applicable state law, has been properly described, classified and packaged, and is in proper condition for transportation according to applicable regulations.

Generator Authorized Agent Name (Lincoln Applied Geology) Signature Dagan Murray Shipment Date 5-18-06

TRANSPORTER

Transporter Name See heading Driver Name (Print) Jim Address Vehicle License No./State AE-66010-NY Truck Number CH-66

I hereby certify that the above named material was picked up at the generator site listed above.

I hereby certify that the above named material was delivered without incident to the destination listed below.

Driver Signature Jim Shipment Date 5-18-06

Driver Signature Jim Delivery Date 5-18-06

DESTINATION

Site Name ESMI of NY Phone No. 518-747-5500 Address Tolupath Rd, Ft. Edward NY

I hereby certify that the above named material has been accepted and to the best of my knowledge the foregoing is true and accurate.

Name of Authorized Agent Signature Receipt Date 5/18/06

Appendix G

Hazardous Waste Manifest



VERMONT AGENCY OF NATURAL RESOURCES WASTE MANAGEMENT DIVISION

103 South Main Street, West Building

Waterbury, VT 05671-0404

802-241-3119

FOR STATE USE ONLY

Please type (or print) (Form designed for use on elite (12-pitch) typewriter.)

In the event of a spill or emergency, contact the National Response Center 1-800-424-8802 and if within Vermont, The Vermont Department of Public Safety 1-800-641-5005.

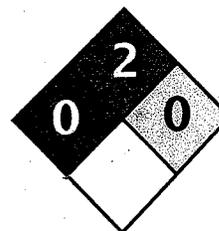
COPY 8: GENERATOR RETAINS

UNIFORM HAZARDOUS WASTE MANIFEST		1. Generator's US EPA ID No. VT 0000017753	Manifest Document No. K 8814	2. Page 1 of	Information in the shaded areas is not required by Federal law, but may be required by State Law.	
3. Generator's Name and Mailing Address (where returned manifests are managed) REGINA WASSER 5078 MOUNTAIN VIEW ROAD				A. State Manifest Document Number VT-0184814		
4. Generator's Phone 802-273-2311				B. Generation Site (if different)		
5. Transporter 1 Company Name		6. US EPA ID Number		C. Trans. 1 Lic. St. Plate #		
7. Transporter 2 Company Name		8. US EPA ID Number		D. Trans. 1 Phone ()		
9. Designated Facility Name and Site Address ENVIRONMENTAL PROD & SVCS OF VT, INC. 877 STATE FAIR BLVD MIDDLEBURY, VT 05754				E. Trans. 2 Lic. St. Plate #		
				F. Trans. 2 Phone ()		
				G. State Facility's ID (Not Required)		
				H. Facility's Phone ()		
11. US DOT Description (Including Proper Shipping Name, Hazard Class, and ID Number)		12. Containers No.	Type	13. Total Quantity	14. Unit Wt/Vol	I. Waste No.
a. WASTE NON-REHA SOLID H.O.S. MICROBENE CONTAMINATED DEBRIS, NONE, NONE		1	DM	100		EPA STATE
b.						EPA STATE
c.						EPA STATE
d.						EPA STATE
J. Additional Descriptions for Materials Listed Above				K. Handling Codes for Wastes Listed Above		
a.		c.		a. Interim	Final	c. Interim
b.		d.		b.		d.
15. Special Handling Instructions and Additional Information JOB # 10178 EMERGENCY PHONE # 802-882-1212 # 1038 APPROVAL #0608135				Point of Departure or Entry - City, State		
16. GENERATOR'S CERTIFICATION: I hereby declare that the contents of this consignment are fully and accurately described above by proper shipping name and are classified, packed, marked, and labeled, and are in all respects in proper condition for transport by highway according to applicable international and national government regulations, and all applicable State law and regulations. If I am a large quantity generator, I certify that I have a program in place to reduce the volume and toxicity of waste generated to the degree I have determined to be economically practicable and that I have selected the practicable method of treatment, storage, or disposal currently available to me which minimizes the present and future threat to human health and the environment; OR, if I am a small quantity generator, I have made a good faith effort to minimize my waste generation and select the best waste management method that is available to me and that I can afford.						
Printed/Typed Name				Signature		Month Day Year
17. Transporter 1 Acknowledgement of Receipt of Materials				Signature		Month Day Year
Printed/Typed Name EUGENE BRUNELLE				Signature Eugene Brunelle		06/14/06
18. Transporter 2 Acknowledgement of Receipt of Materials				Signature		Month Day Year
Printed/Typed Name				Signature		Month Day Year
19. Discrepancy Indication Space						
20. Facility Owner or Operator: Certification of receipt of hazardous materials covered by this manifest except as noted on Item 19.						
Printed/Typed Name				Signature		Month Day Year

VT-0184814

Appendix H

MSDS Sheets



Health	2
Fire	2
Reactivity	0
Personal Protection	H

Material Safety Data Sheet Kerosene MSDS

Section 1: Chemical Product and Company Identification

Product Name: Kerosene

Catalog Codes: SLK1048

CAS#: 8008-20-6 or 64742-81-0

RTECS: OA5500000

TSCA: TSCA 8(b) inventory: Kerosene

CI#: Not available.

Synonym: Astral Oil; Coal Oil, Fuel Oil No. 5, Deobase, Astral Oil, Jet A Fuel; Jet Fuel JP-1; JP-5 Navy Fuel; Kerosine, petroleum; Range Oil; K1 Kerosene; Kerosene, hydrodesulfurized; Kerosine

Chemical Name: Kerosene

Chemical Formula: Not available.

Contact Information:

Sciencelab.com, Inc.
14025 Smith Rd.
Houston, Texas 77396

US Sales: 1-800-901-7247
International Sales: 1-281-441-4400

Order Online: ScienceLab.com

CHEMTREC (24HR Emergency Telephone), call:
1-800-424-9300

International CHEMTREC, call: 1-703-527-3887

For non-emergency assistance, call: 1-281-441-4400

Section 2: Composition and Information on Ingredients

Composition:

Name	CAS #	% by Weight
Kerosene	8008-20-6 or 64742-81-0	100

Toxicological Data on Ingredients: Kerosene: ORAL (LD50): Acute: 15000 mg/kg [Rat]. 20000 mg/kg [Guinea pig]. 2835 mg/kg [Rabbit].

Section 3: Hazards Identification

Potential Acute Health Effects:

Hazardous in case of skin contact (irritant), of eye contact (irritant), of ingestion, of inhalation. Slightly hazardous in case of skin contact (permeator). Severe over-exposure can result in death.

Potential Chronic Health Effects:

Slightly hazardous in case of skin contact (sensitizer).

CARCINOGENIC EFFECTS: Not available.

MUTAGENIC EFFECTS: Mutagenic for bacteria and/or yeast.

TERATOGENIC EFFECTS: Not available.

DEVELOPMENTAL TOXICITY: Not available.

The substance is toxic to the nervous system.

The substance may be toxic to blood, kidneys, liver, central nervous system (CNS).

Repeated or prolonged exposure to the substance can produce target organs damage. Repeated exposure to a highly toxic material may produce general deterioration of health by an accumulation in one or many human organs.

Section 4: First Aid Measures

Eye Contact:

Check for and remove any contact lenses. In case of contact, immediately flush eyes with plenty of water for at least 15 minutes. Get medical attention.

Skin Contact:

In case of contact, immediately flush skin with plenty of water. Cover the irritated skin with an emollient. Remove contaminated clothing and shoes. Wash clothing before reuse. Thoroughly clean shoes before reuse. Get medical attention.

Serious Skin Contact:

Wash with a disinfectant soap and cover the contaminated skin with an anti-bacterial cream. Seek immediate medical attention.

Inhalation:

If inhaled, remove to fresh air. If not breathing, give artificial respiration. If breathing is difficult, give oxygen. Get medical attention immediately.

Serious Inhalation:

Evacuate the victim to a safe area as soon as possible. Loosen tight clothing such as a collar, tie, belt or waistband. If breathing is difficult, administer oxygen. If the victim is not breathing, perform mouth-to-mouth resuscitation. **WARNING:** It may be hazardous to the person providing aid to give mouth-to-mouth resuscitation when the inhaled material is toxic, infectious or corrosive. Seek immediate medical attention.

Ingestion:

If swallowed, do NOT induce vomiting. If swallowed, do not induce vomiting unless directed to do so by medical personnel. Never give anything by mouth to an unconscious person. Loosen tight clothing such as a collar, tie, belt or waistband. Get medical attention immediately.

Serious Ingestion: Not available.

Section 5: Fire and Explosion Data

Flammability of the Product: Flammable.

Auto-Ignition Temperature: 210°C (410°F)

Flash Points: CLOSED CUP: 38°C (100.4°F). (Tagliabue.)

Flammable Limits: LOWER: 0.7% UPPER: 5% - 7%

Products of Combustion: Not available.

Fire Hazards in Presence of Various Substances: Flammable in presence of open flames and sparks, of heat.

Explosion Hazards in Presence of Various Substances:

Risks of explosion of the product in presence of mechanical impact: Not available.

Risks of explosion of the product in presence of static discharge: Not available.

Fire Fighting Media and Instructions:

Flammable liquid, insoluble in water.

SMALL FIRE: Use DRY chemical powder.

LARGE FIRE: Use water spray or fog. Cool containing vessels with water jet in order to prevent pressure build-up, autoignition or explosion.

Special Remarks on Fire Hazards: Not available.

Special Remarks on Explosion Hazards: Not available.

Section 6: Accidental Release Measures

Small Spill: Absorb with an inert material and put the spilled material in an appropriate waste disposal.

Large Spill:

Toxic flammable liquid, insoluble or very slightly soluble in water. Poisonous liquid.

Keep away from heat. Keep away from sources of ignition. Stop leak if without risk. Absorb with DRY earth, sand or other non-combustible material. Do not get water inside container. Do not touch spilled material. Use water spray to reduce vapors. Prevent entry into sewers, basements or confined areas; dike if needed. Call for assistance on disposal.

Section 7: Handling and Storage

Precautions:

Keep locked up.. Keep away from heat. Keep away from sources of ignition. Ground all equipment containing material. Do not ingest. Do not breathe gas/fumes/ vapor/spray. Wear suitable protective clothing. In case of insufficient ventilation, wear suitable respiratory equipment. If ingested, seek medical advice immediately and show the container or the label. Avoid contact with skin and eyes. Keep away from incompatibles such as oxidizing agents.

Storage:

Store in a segregated and approved area. Keep container in a cool, well-ventilated area. Keep container tightly closed and sealed until ready for use. Avoid all possible sources of ignition (spark or flame).

Section 8: Exposure Controls/Personal Protection

Engineering Controls:

Provide exhaust ventilation or other engineering controls to keep the airborne concentrations of vapors below their respective threshold limit value. Ensure that eyewash stations and safety showers are proximal to the work-station location.

Personal Protection:

Splash goggles. Lab coat. Vapor respirator. Be sure to use an approved/certified respirator or equivalent. Gloves.

Personal Protection in Case of a Large Spill:

Splash goggles. Full suit. Vapor respirator. Boots. Gloves. A self contained breathing apparatus should be used to avoid inhalation of the product. Suggested protective clothing might not be sufficient; consult a specialist BEFORE handling this product.

Exposure Limits: Not available.

Section 9: Physical and Chemical Properties

Physical state and appearance: Liquid. (Oily liquid.)

Odor: Not available.

Taste: Not available.

Molecular Weight: Not available.

Color: Yellow. Clear (Light.)

pH (1% soln/water): Not applicable.

Boiling Point: 149°C (300.2°F) - 325 C

Melting Point: Not available.

Critical Temperature: Not available.

Specific Gravity: 0.775 - .840(Water = 1)

Vapor Pressure: 0.1 kPa (@ 20°C)

Vapor Density: 4.5 (Air = 1)

Volatility: Not available.

Odor Threshold: Not available.

Water/Oil Dist. Coeff.: Not available.

Ionicity (in Water): Not available.

Dispersion Properties: Not available.

Solubility:

Insoluble in cold water, hot water.

Miscible with other petroleum solvents

Section 10: Stability and Reactivity Data

Stability: The product is stable.

Instability Temperature: Not available.

Conditions of Instability: Heat, ignition sources (sparks, flames), incompatible materials

Incompatibility with various substances: Reactive with oxidizing agents.

Corrosivity: Not considered to be corrosive for metals and glass.

Special Remarks on Reactivity: Not available.

Special Remarks on Corrosivity: Not available.

Polymerization: Will not occur.

Section 11: Toxicological Information

Routes of Entry: Absorbed through skin. Eye contact.

Toxicity to Animals: Acute oral toxicity (LD50): 2835 mg/kg [Rabbit].

Chronic Effects on Humans:

MUTAGENIC EFFECTS: Mutagenic for bacteria and/or yeast.

Causes damage to the following organs: the nervous system.

May cause damage to the following organs: blood, kidneys, liver, central nervous system (CNS).

Other Toxic Effects on Humans:

Hazardous in case of skin contact (irritant), of ingestion, of inhalation (lung irritant).

Slightly hazardous in case of skin contact (permeator).

Special Remarks on Toxicity to Animals: Not available.

Special Remarks on Chronic Effects on Humans: May affect genetic material (mutagenic)

Special Remarks on other Toxic Effects on Humans:

Acute Potential Health Effects:

Skin: Causes moderate to severe skin irritation. It can cause defatting dermatitis.

Eyes: May cause eye irritation.

Inhalation: May cause respiratory tract and mucous membrane irritation and a burning sensation in the chest.

Because of its relatively low volatility, overexposure by inhalation is uncommon, but it can occur in poorly ventilated areas or by inhalation of mists or aerosols. Symptoms of inhalation overexposure include central nervous system (CNS) depression (transient euphoria, headache, irritability, excitement, ringing in the ears, weakness, incoordination, confusion, disorientation, drowsiness, tremor, somnolence, hallucinations, seizures, coma, death).

May affect the heart (cardiac arrhythmias), liver, kidneys, and respiration (asphyxia, apnea, acute pulmonary edema, dyspnea, fibrosis, or cyanosis)

Ingestion: Causes gastrointestinal tract irritation with burning sensation in mouth, esophagus, and stomach, abdominal pain, nausea, vomiting, hypermotility, diarrhea, headache, malaise. May affect

respiration/trachea/bronchi through accidental pulmonary aspiration which can cause hypoxia, chemical pneumonitis, and noncardiogenic pulmonary edema, pulmonary hemorrhage, coughing, breathing difficulty, acute or chronic pulmonary edema, emphysema, respiratory stimulation. It may also affect the heart (dysrhythmias, myocardial depression, tachycardia), liver, endocrine system (pancreas - hypoglycemia), behavior/central nervous system (symptoms similar to that of inhalation).

Chronic Potential Health Effects:

Inhalation: Repeated or prolonged inhalation may cause respiratory tract irritation and affect behavior/central nervous system with symptoms similar to that of acute inhalation. It may also affect the blood (changes in white blood cell count, changes in serum composition, pigmented or nucleated red blood cells, leukopenia, normocytic anemia), cardiovascular system, respiratory system (trachea, bronchi), and may cause kidney damage.

Ingestion: Repeated or prolonged ingestion may affect the liver, endocrine system (adrenal gland, pancreas, spleen), and metabolism (weight loss), and blood.

Skin: Repeated or prolonged skin contact may cause defatting dermatitis, erythema, and eczema-like skin lesions, drying and cracking of the skin, and possible burns.

Section 12: Ecological Information

Ecotoxicity: Not available.

BOD5 and COD: Not available.

Products of Biodegradation:

Possibly hazardous short term degradation products are not likely. However, long term degradation products may arise.

Toxicity of the Products of Biodegradation: Not available.

Special Remarks on the Products of Biodegradation: Not available.

Section 13: Disposal Considerations

Waste Disposal:

Waste must be disposed of in accordance with federal, state and local environmental control regulations.

Section 14: Transport Information

DOT Classification: CLASS 3: Flammable liquid.

Identification: : Kerosene UNNA: 1223 PG: III

Special Provisions for Transport: Not available.

Section 15: Other Regulatory Information

Federal and State Regulations:

Connecticut hazardous material survey.: Kerosene
Rhode Island RTK hazardous substances: Kerosene
Pennsylvania RTK: Kerosene
Massachusetts RTK: Kerosene
Massachusetts spill list: Kerosene
New Jersey: Kerosene
TSCA 8(b) inventory: Kerosene

Other Regulations:

OSHA: Hazardous by definition of Hazard Communication Standard (29 CFR 1910.1200).
EINECS: This product is on the European Inventory of Existing Commercial Chemical Substances.

Other Classifications:

WHMIS (Canada):

CLASS B-3: Combustible liquid with a flash point between 37.8°C (100°F) and 93.3°C (200°F).
CLASS D-2B: Material causing other toxic effects (TOXIC).

DSCL (EEC):

R10- Flammable.
R65- Harmful: may cause lung damage if swallowed.
S23- Do not breathe gas/fumes/vapour/spray
S24- Avoid contact with skin.
S62- If swallowed, do not induce vomiting: seek medical advice immediately and show this container or label.

HMIS (U.S.A.):

Health Hazard: 2

Fire Hazard: 2

Reactivity: 0

Personal Protection: h

National Fire Protection Association (U.S.A.):

Health: 0

Flammability: 2

Reactivity: 0

Specific hazard:

Protective Equipment:

Gloves.
Lab coat.
Vapor respirator. Be sure to use an approved/certified respirator or equivalent. Wear appropriate respirator when ventilation is inadequate.
Splash goggles.

Section 16: Other Information

References: Not available.

Other Special Considerations: Not available.

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