Heindel & Noyes, Inc.
P.O. Box 4503 Burlington, VT 05406-4503

- Consulting Hydrogeologists
- Engineers
- Environmental Scientists

Voice 802-658-0820/Fax 802-860-1014

HEINDEL & NOYES, INC.
FILE COPY

JUN 11 2007

MAIL FAX FEDEX HD

June 8, 2007

Mr. Tony Poissant
P.O. Box 248
Alburg, VT 05440

Re: Site Investigation – Poissant's Mobil SMS #92-1321

Dear Mr. Poissant:

Enclosed please find Heindel & Noyes' Site Investigation Report for the property at 28 South Main Street, Alburgh, VT 05440, SMS Site #92-1321. This investigation was in response to the State's request for action documented in the letter from Chuck Schwer dated November 23, 1992.

Please feel free to contact me with any questions at 802-658-0820 ext. 33 or e-mail me at dmartin@q-city.com.

Sincerely,

David Martin

David W. Martin
Staff Scientist

Enclosure

CC: Mr. Ashley Desmond, VDEC

[U:\PROJECTS\Poissant-Alburg\Reports\Poissant_Cover Letter.doc]

POISSANT'S SERVICE STATION
ALBURGH, VERMONT

SITE INVESTIGATION REPORT
SMS SITE # 92-1321

June 8, 2007

HEINDEL AND NOYES, INC.

Consulting Hydrogeologists, Engineers, and Environmental Scientists

POISSANT'S SERVICE STATION
ALBURGH, VERMONT

SITE INVESTIGATION REPORT
SMS SITE # 92-1321

Prepared by:

Heindel and Noyes

Prepared for:

Mr. Tony Poissant

June 8, 2007

POISSANT'S SERVICE STATION
ALBURGH, VERMONT

SITE INVESTIGATION REPORT

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POISSANT'S SERVICE STATION
ALBURGH, VERMONT

SITE INVESTIGATION REPORT

1.0 INTRODUCTION

This report documents a Site Investigation performed by Heindel and Noyes (H&N) at the property at 28 South Main Street, Alburgh, VT 05440, SMS Site #92-1321 (Appendix 1, page 1). The focus of this investigation was to assess the current condition of soil and groundwater at the site, perform a sensitive receptor survey and to determine the status of approximately 10 yds of suspected contaminated soil that remains stockpiled on-site after the removal of a 2,000-gallon gasoline underground storage tank (UST) in 1992.

In summary, six soil-borings were advanced in the proximity of the assumed source area and areas surrounding the former location of the 2,000-gallon gasoline UST, as well as locations that reflected probable downgradient groundwater flow direction. Four of the six soil-borings were finished as flush-mounted groundwater monitoring wells (MW). Our Site Investigation presented herein was performed in accordance with our proposal dated February 8, 2007.

1.1 Site Description and History

The property at 28 South Main Street, Alburgh, VT, is an operating maintenance garage and vehicle supply shop. Three UST's are currently operating on-site, one (1) 8,000-gallon gasoline UST, one (1) 3,000 gallon gasoline UST and one (1) 4,000 gallon gasoline UST. The site does not operate as a public service station, but fills the fuel

needs of Mr. Poissant's towing services. The site is located approximately 1,800 ft from Lake Champlain and approximately 2,500 ft from Alburgh High School. The topography generally slopes to the west towards Lake Champlain. This building does not have a basement and is supplied by city water and sewer.

In 1992, contamination was originally discovered during the removal of a 2,000-gallon gasoline underground storage tank (UST) by R.L. Vallee, Inc. of St. Albans, Vermont. Due to this documented release, the site was given SMS Site #92-1321. New England Industrial Maintenance of South Burlington, Vermont, performed a site assessment and concluded that there was a need for further investigation based on documented contamination present in the tank grave and in test pits that were dug in nearby locations. Approximately 10 yds of contaminated soils were taken from the tank grave and stockpiled on-site where they remain. Contaminant limits were not defined through this excavation and further excavation could not be completed due to utilities and the close proximity of other existing UST's. Mr. Poissant and the Vermont Department of Environmental Conservation (VDEC) contacted us to perform a site investigation to determine the extent of contamination present in the sub-surface and in the suspected contaminated soil that is currently stockpiled on-site. The site map on page 6 of Appendix 1 shows the approximate original location of the former UST and the stockpiled soil.

2.0 SITE GEOLOGY

A Surficial Geology Map is provided in Appendix 1, page 5. The geology of the area is mapped as being at the intersection of a marine Clay (Map Symbol: "MC") and glacial till (Map Symbol "T") boundary. Marine clay was not encountered during the investigation. Glacial till was the pre-dominant soil encountered during the drilling investigation.

3.0 DRILLING PROGRAM

3.1 Soil Borings

On March 13, 2007, H&N oversaw the advancement of six soil borings via direct push technology. Four of these borings were completed as MW's. Specialty Drilling & Investigation of Burlington, Vermont (SDI) performed the drilling.

During advancement of the borings, soils were retracted every four feet via Macrocore sleeves to evaluate texture, geology, and moisture content. To evaluate for the presence of contamination, soils were screened via visual and olfactory analysis. A Photoionization Detector equipped with a 10.2 eV lamp (PID) was also used to evaluate

for the presence of Volatile Organic Compounds (VOCs), which are constituents of petroleum and solvent-type contamination. Soil borings were sampled every two feet and placed in a Ziploc bag; the headspace in the bags was measured with the PID. The soil-boring logs are included in Appendix 2 on page 3-8.

3.1.1 Soil Type

As indicated by the boring logs, soils encountered consisted of fine to coarse sands containing silts and clays with some angular gravel from 0-13 feet below ground surface (bgs). Dense till was encountered at depths between 6-13 feet bgs. Saturation was observed at approximately 5-6 feet bgs. Bedrock was not encountered during the investigation.

3.1.2 Soil Screening Results

Retracted soils were screened for the presence of contamination by visual/olfactory analysis and a PID was used to measure ionizable vapors associated with volatile compounds. The following summarizes the field-screening results:

- Visual and olfactory manifestations of contamination (staining, discoloration and petroleum odors) were encountered in borings B-1, 2 and 6.

- PID readings were elevated (above 20 ppm, which is the action limit for gasoline contamination) in boring B-6. The maximum PID value that was detected in B-6 was 329.5 ppm at 6 feet bgs. PID levels dropped off considerably at 7-8 feet bgs (6.7 ppm at 8 feet bgs). The soil matrix encountered at this depth became very dense, most likely acting as a confining layer for the gross contamination.

Below is a table of the maximum PID readings from each boring and the depth they were recorded at:

Boring Number	PID Reading (ppm)	Depth (ft.)
1 (MW-1)	3.0	6
2 (MW-2)	8.8	5-6
3 (MW-3)	0.5	0-8
4 (MW-4)	0.3	0-12
5	0.3	0-8
6	329.5	6

3.3 Monitoring Well Installation

Monitoring well locations were chosen due to assumed groundwater flow direction based on visual site topography. Based on visual information gathered from the site, local topography slopes to the northwest. Therefore, our well locations were situated to provide downgradient as well as upgradient information pertaining to relative locations around the former UST grave. Actual groundwater flow direction is shown as proceeding in a southwest direction, contradicting our field evidence. This discrepancy could be attributed to local underground utilities and/or ponding of groundwater against subsurface structures due to an elevated water table encountered during water elevation measurements.

Four of the soil borings were fitted with a 1.5-inch diameter PVC monitoring well that extended to a maximum depth of 12.3 feet bgs. Well screen material composed of PVC with 0.020-inch slots spans from 2 feet to 12.3 feet bgs. The sand pack around the screen ranged from 12.3 to 1.5 feet bgs along with a bentonite seal from 1.5 feet to 0.5 ft bgs. All monitoring wells were finished with flush-mounted road boxes. Refer to the Appendix 2, page 3-8 for the well construction details. Wells were developed until groundwater was clear or the well volume was depleted.

Survey information was gathered on March 20, 2007 during the sampling event. A sewer manhole located adjacent to the Poissant property was used as a relative benchmark for elevation data.

It should be noted that Mr. Poissant believes that a monitoring well was installed approximately 20-25 ft south of the initial tank grave after the tank pull of 2000. No mention of this well was noted in our review of the records and could not be located during the sub-surface investigation or the survey/sampling event that followed.

4.0 GROUNDWATER ELEVATION MONITORING

Water elevation measurements were recorded at all four installed monitoring wells on March 20, 2007. Groundwater elevation data reveals that groundwater flow is to the southwest towards Lake Champlain. Groundwater elevation and depth to groundwater data are presented in tabular form on page 1 of Appendix 2 and a water table contour map is presented on page 6 of Appendix 1.

5.0 MONITORING WELL SAMPLING AND ANALYSIS

On March 20, 2007, monitoring wells 1-4 were sampled for water quality analysis. Before the wells were sampled, they were purged of 3 well volumes using a peristaltic pump and allowed to recharge with groundwater. Samples were preserved on ice and transported to Endyne, Inc. Monitoring wells 2, 3 and 4 were analyzed for VOCs by EPA Method 8021B and MW-1 was analyzed for EPA Method 8260, which gives a wider range of volatile organics, due to its close proximity to the source area. A tabulated summary of the analytical results is provided in Appendix 2, pages 2. Full laboratory reports are provided in Appendix 3, pages 1-7.

Detectable compounds were present in all four of the installed monitoring wells. MW-1 contained 84.8 ppb (parts per billion) of benzene and 764 ppb of MTBE (methyl tert-butyl ether), both of which violate the Vermont Groundwater Enforcement Standards. MW-2 also contained levels of MTBE (44.5 ppb) that violated the VGES. MW-3 contained MTBE, but at levels that were below the VGES (9.1 ppb) and MW-4 contained levels of MTBE and Xylenes, both of which were below the VGES (2.8 ppb and 3.7 ppb respectively). A MTBE distribution map is presented on page 6 of Appendix 1. Based on groundwater flow direction presented on page 6 of Appendix 1, it would suggest a high likely hood of MTBE migration off-site to the property located to the south.

It should be noted that more than ten (10) unidentified peaks (UIPs) were detected in MW-1 and 2. These UIP were characterized as being alkylated benzenes, alkylated PAHS, aliphatic hydrocarbons and acetone.

6.0 SOIL PILE CHARACTERIZATION

Based on our review of the records, due to the increased dimensions of the replacement 8,000-gallon gasoline UST that was installed after the removal of the 2,000-gallon UST in 1992, remaining contaminated soil could not be placed back into the excavation. For this reason, approximately 10 yds of contaminated soil was *stockpiled on-site*. See Appendix 1, page 6 for location of soil pile. Also, due to utility constraints and pre-existing UST's on-site, excavation of further contaminated soils could not be accomplished. As a consequence, sub-surface contaminant delineation could not be determined.

Soil pile monitoring was conducted on March 13, 2007, in conjunction with drilling

activities. Samples were collected from varying points on the existing soil pile and screened using a PID. Only background readings (0.2 ppm) were recorded, but due to the temperatures experienced during this time frame, the soil pile was frozen and could only be sampled from a depth of 2-3 inches into the soil pile. Therefore, the soil pile should be screened again in the spring when the ground is thawed.

7.0 SENSITIVE RECEPTORS

The site structure is constructed as slab-on-grade (no basement). It is located approximately 1,800 ft to the northeast of Lake Champlain and approximately 2,500 ft southwest of Alburgh High School. According to the sensitive receptor map included as page 3 of Appendix 1, no private or domestic overburden wells or ecologically sensitive areas exist within a 500 ft radius of the site.

An outdoor air survey was conducted with a PID equipped with a 10.2 eV lamp. All readings outside of the building were below background level readings of 0.2 ppm.

City water and sewer supply the site and surrounding areas. No private or public wells are affected by site conditions.

8.0 CONCLUSIONS AND RECOMMENDATIONS

On March 13, 2007, H&N performed a Site Investigation at Poissant's Service Station at 28 South Main St., Alburgh, VT 05440. Field activities consisted of advancing six soil borings and completing four borings as groundwater monitoring wells. Sampling of these wells was conducted on March 20, 2007. The following points summarize the results:

- Depth to water encountered during sampling was at approximately 1-2 ft bgs. Groundwater flow is towards the southwest towards Lake Champlain, which is located approximately 1,800 ft to the southwest.

- Elevated PID levels (329.5 ppm) were encountered in boring number six at a depth of 6 feet bgs. With its close proximity to the pump island, B-6 represents a possible separate source.

- Groundwater analytical data revealed levels of benzene and MTBE above the Vermont Groundwater Enforcement Standards (VGES) for MW-1 and MW-2. Volatile organics were detected in MW-3 and 4, but at levels that did not violate the VGES.

- Due to groundwater flow direction and the high solubility of MTBE in water, there exists a possibility of contaminant migration off site that is in excess of VGES.

- Due to weather conditions, the contaminated soil pile on-site could not be accurately characterized and should be screened again when the soil thaws out.

Based on these conclusions, H&N recommends the following:

- Further characterization of the UST area and the area surrounding the pump island to define possible separate source.

- Locate and sample pre-existing monitoring well to further characterize downgradient contaminant levels. If this well no longer exists, install additional monitoring well to further define downgradient contaminant limits and possible off site migration.

- Re-screen soil pile when the ground is thawed.

APPENDIX 1

APPENDIX 1

Poissant Service Station

28 S. Main Street
Alburgh, Vermont

USGS Site Location Map

N
W E
S

2000 0 2000 Feet

April 6, 2007
S. Smith
c:\Poissant\location.apr

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Poissant Service Station

28 S. Main Street
Alburgh, Vermont

2003 Aerial Photography

N
W E
S

200 0 200 Feet

April 6, 2007
S. Smith
c:\Poissant\location.apr

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Sensitive Receptors

April 23, 2007

200 0 200 400 Feet

Name: Poissants Alburgh
Address: 28 S Main St
Alburgh, VT

BEAR HABITAT (1997)
DEER WINTERING AREA
NWI WETLANDS
RIVERS AND STREAMS
PRIVATE WELLS (Approx location)
COUNTY BOUNDARY
TOWN BOUNDARY
ROADS

Circle Radius: 500 feet

Map Center (State Plane Meters)
Easting: 436745
Northing: 275180

Orthophoto: 1995

N
W E
S

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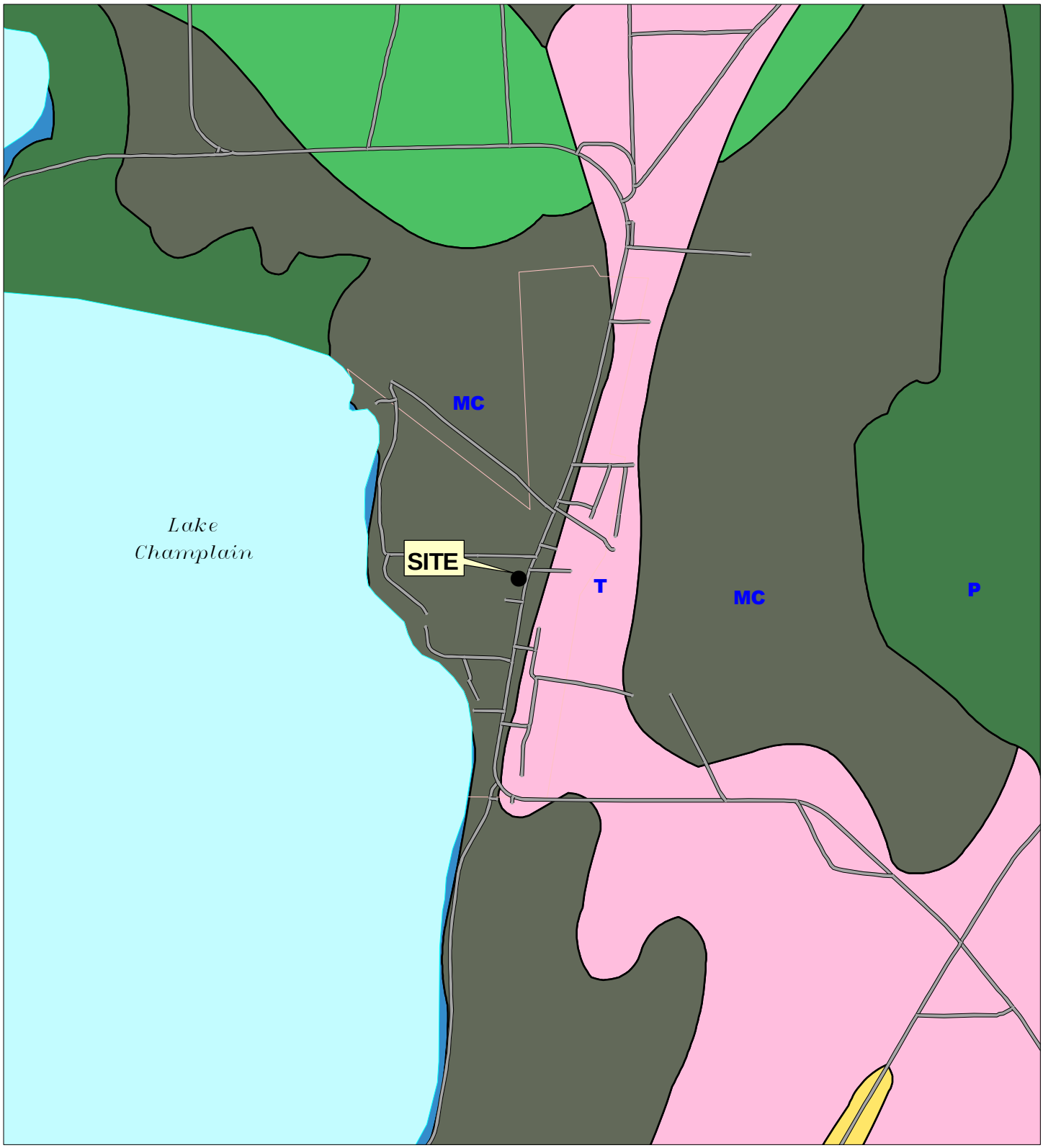

Poissant Service Station

28 S. Main Street
Alburgh, Vermont

Surficial Geology Map

N
W E
S

2000 0 2000 Feet

April 6, 2007
S. Smith
c:\Poissant\location.apr

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SURFICIAL GEOLOGY LEGEND

GLACIAL

T

TILL

Till mantling the bedrock and reflecting the topography of the underlying bedrock surface. Thicker in the valleys and thinner on the uplands. On many exposed uplands, postglacial erosion has left only rubble and scattered boulders on the bedrock.

M | TM

MORAINE

Ice marginal till accumulations with morainic topography.
M- frontal moraine assumed to be recessional.
TM- terminal moraine.

K | KT | KM

KAME GRAVEL

Ice contact outwash gravel.
K- isolated kame.
KT- kame terrace.
KM- kame moraine, kame complex with morainic topography.

OW

OUTWASH

Horizontally bedded glaciofluvial gravel. Spillway or valley train gravel in stream valleys. May or may not have a thin vener of postglacial alluvium.

E

ESKER

A sinuous ridge of constructional form, consisting of stratified accumulations, of glacial sand and gravel.

EOLIAN

ES

EOLIAN SAND AND DUNES

Deposits of sand arranged by the wind.

GLACIOLACUSTRINE

LG | BG | DG | D

LITTORAL SEDIMENT
PREDOMINANTLY GRAVEL

LG- horizontally bedded gravel deposited in a shoaling lake or topset beds of deltaic gravel where no foreset bedding is exposed.
BG- beach gravel.
DG- delta gravel showing foreset bedding.
D- small deltas composed of sand and gravel.

LS | PS | BS | DS

LITTORAL SEDIMENT
PREDOMINANTLY SAND

LS-well sorted sand, no pebbles or boulders.
PS- pebbly sand.
BS- sand containing ice rafted boulders.
DS- delta sand.

STC | VC | BC

LAKE BOTTOM SEDIMENTS

STC- silt, silty clay, and clay.
VC- varved clay.
BC- silt, silty clay, and/or clay containing ice rafted boulders.

WT

WAVE-WASHED TILL

Till from the top of which the finer materials have been removed by wave action, leaving boulder concentrations on the surface.

B

BEACH RIDGE

A linear accumulation of beach material, behind the beach which was created from waves or other action.

POSTGLACIAL FLUVIAL

FG

FLUVIAL GRAVEL

Gravel laid down by a river or a stream.

FS

FLUVIAL SAND

Sand laid down by a river or a stream.

AL

RECENT ALLUVIUM

Accumulations of detrital materials, which have been eroded, transported, and deposited by streams.

CHAMPLAIN SEA

BGM

MARINE BEACH GRAVEL

MS | PSM

MARINE SAND

MS- marine sand without pebbles or boulders.
PSM- pebbly marine sand.

MC

MARINE CLAY

GB

GRAVEL BAR

A natural mound or exposed face of gravel.

PLUVIAL

P

SWAMP, PEAT and/or MUCK

BR

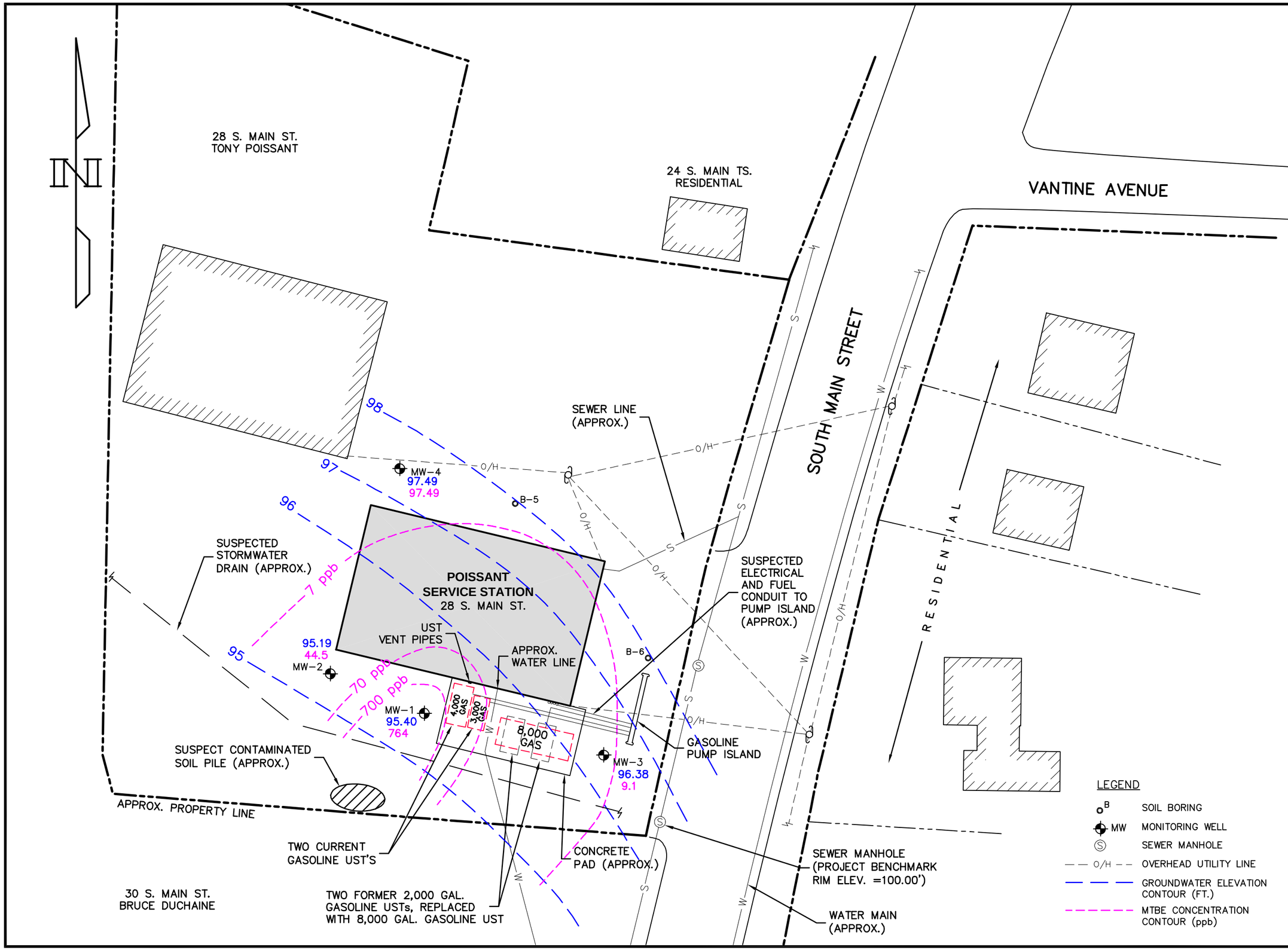
BEDROCK EXPOSURES

Solid filled bedrock was taken directly from the state source maps.
Hatch filled bedrock represents generalized centerlines with a 25m buffer.

SOURCE NOTES:
Surface Geology was digitized and scanned, by Wagner, Heindel, and Noyes, into a PC ARC/INFO database from 1:62500 original State of Vermont surficial geology base maps (1956-1966).
These base maps were created under the supervision of David P, Stewart (1956-1966), Paul MacClintock (1963-1966), William F. Cannon (1964), G. Gordon Connally (1965), Parker E. Calkin (1965), Robert E. Behling (1966), and William W. Shilts (1966). Surficial data for most of the state is available, in 15 minute quads, from WHN (802) 658-0820.
Generalized Bedrock Outcrops were digitized from 1:62500 state surficial geology maps as linear features, which were buffered to 25m. Data available from WHN with surficial geology coverages.
Road Centerlines were generated from pre-1990 1:5000 orthophotos (or better). Road data (RDSnn) is available from the Vermont Center for Geographic Information, VCGI (802) 656-4277.
Linear Surface Waters are Digital Line Graph Data, generated from 1:24,000 USGS topographic maps. This data is available from VGIS.
Town Boundaries were digitized from pre-1990 1:24000 USGS topographic maps. This coverage was created by the EPA and is available through VGIS.

Legend derived from 1:250,000 Surficial Geologic Map of Vermont (1970).

INFORMATION & VISUALIZATION SERVICES
P.O. Box 64709 - Burlington, Vermont - 05406-4709 - Tel: (802) 865-0437 - Fax: (802) 860-1014



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• Environmental Engineering •

CONSULTING SCIENTISTS AND ENGINEERS

P.O. BOX 4503
BURLINGTON, VERMONT 05406

Prepared By:
Information & Visualization Services

DATE: MAY 24, 2007

PROJECT NO.

DRAWN BY: L. Smith

PROJ. MGR: E. Urch

APPROVED:

☐ DRAFT ☐ FINAL

Poissant Service Station

28 South Main St.

ALBURGH, VERMONT

GROUNDWATER ELEVATION AND MTBE CONCENTRATION CONTOUR MAP - 3/20/07

FILE: c:\poissantsiteplan

SCALE: 1" = 30'

APPENDIX 2

APPENDIX 2

GROUNDWATER ELEVATION DATA

Poissant's Service Station, Alburgh, Vermont

Groudwater Depths Below Top of Casing

Monitoring Well	Top of Casing Elevation (ft)	3/20/07
MW-1	97.56	2.16
MW-2	96.67	1.48
MW-3	98.78	2.40
MW-4	98.86	1.37

Groundwater Elevations

Monitoring Well	Top of Casing Elevation (ft)	3/20/07
MW-1	97.56	95.40
MW-2	96.67	95.19
MW-3	98.78	96.38
MW-4	98.86	97.49

Heindel & Noyes;
u:/Projects/Poissants Mobil/2007/Data/Water_Data xls

Water Quality Results

Poissant's Service Station, Alburgh, Vermont

Parameter			Benzene	Toluene	Ethyl-Benzene	Total Xylenes	Total BTEX	MTBE	1, 3, 5 Trimethylbenzene & 1, 2, 4 Trimethylbenzene	Naphthalene	Unidentified Peaks
VT Enforcement Standard			5.0	1000.0	700.0	10,000.0	---	40.0	350.0	20.0	---
VT Preventive Action Limit			0.5	500.0	350.0	5,000.0	---	20.0	none	10.0	---
VT Health Advisory			1.0	none	none	none	---	40.0	none	20.0	---
Federal MCL			5.0	1000.0	700.0	10,000.0	---	none	none	none	---
UNITS			ug/l	ug/l	ug/l	ug/l	---	ug/l	ug/l	ug/l	---
Sample ID	Date	Method									
MW-1	3/20/07	8260	84.8	3.6	16.4	14.9	119.7	764	40.3	3.9	> 10
MW-2	3/20/07	8021B	2.9	1.2	ND < 1	ND < 2	< 7.1	44.5	< 3.3	ND < 2	> 10
MW-3	3/20/07	8021B	ND < 1	ND < 1	ND < 1	ND < 2	ND < 5	9.1	ND < 2	ND < 2	0
MW-4	3/20/07	8021B	ND < 1	ND < 1	ND < 1	3.7	< 6.7	2.8	< 2.2	ND < 2	0

Note:

ND = "not detected"

Shaded box indicates concentration above Vermont Groundwater Enforcement Standards (VGES)

Heindel and Noyes;
U:\Projects\Poissants Mobil\2007\Data\Water_Data.xls

BORING NO. SB-1/MW-1

SPECIALTY DRILLING & INVESTIGATION

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

PROJECT NAME S/H & N/POISSANT'S MOBIL

PROJECT LOCATION ALBURGH, VT

SHEET 1 OF 1

SOIL BORING LOG

BORING LOCATION: WEST OF TANKS ON SOUTH SIDE OF BUILDING

DATE AND TIME STARTED: 3/13/07 AT 8 AM RIG HOURS METER START:

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

DATE AND TIME COMPLETED 3/13/07 AT 10 AM RIG HOURS METER END. 5338 6

SAMPLING METHOD: SPLIT SPOON **DIRECT PUSH** CUTTINGS BACKHOE HAND AUGER

SIZE: 24" HAMMER: 140 LB FALL 30"

NO.	REC. (FT)	DEPTH (FT)	BLOWS	SAMPLE DESCRIPTION	STRATA CHANGE	PID
1	1 5	1-5		0'-1 0' 1 5" GRAVEL AND FINE-COARSE SAND AND GRAVEL FILL 1 0'-1.5' DARK BROWN TO GRAY-STAINED SANDY SILT, SOME CLAY, ODOR, SOME FINE-MEDIUM GRAVEL, MOIST		0 3
2	3.6	5-9		GRAY STAINED TO BROWN FINE-MEDIUM SAND AND FINE-COARSE GRAVEL, SOME SILT, TRACE CLAY, ODOR IN TOP 2.0', WET		3 0 at 6' 0 6 at 8 5'
3	2.6	9-13		12 5'-13' VERY DENSE, BROWN TO GRAY FINE-MEDIUM SAND, SOME FINE-MEDIUM GRAVEL, SOME SILT		0 3
				SET 1.5" PVC WELL TO 12 3'		

WELL CONSTRUCTION DETAILS

PVC Screen 1.5 " diameter: 0 01 " slot 10 ' Sections Set from. 12 3 to 2.3'

PVC Riser: 1 5 " diameter 2 ' Sections Set from 2 3' to 5'

Filter Sock -6 " Stick Up

Sand Pack 12.3' to 2' (1/2 bag)

Bentonite Seal 2' to .1' (1/8 bag) Cap

Grout Seal ' to ' bags 1 Plug

Well Finish X flush Guard: 1 Gripper Native Backfill:

1 BTW

S \Poissants Mobil Alburgh\[Soil Boring Log 031307 xls]SB-1MW-1

BORING NO SB-2/MW-2

SPECIALTY DRILLING & INVESTIGATION

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

PROJECT NAME. S/H & N/POISSANT'S MOBIL

PROJECT LOCATION ALBURGH, VT

SHEET 1 OF 1

SOIL BORING LOG

BORING LOCATION SW CORNER OF BUILDING APPROX 50' WEST OF SB-1/MW-101

DATE AND TIME STARTED: 3/13/07 AT 10:15 AM RIG HOURS METER START: 5338 6

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

DATE AND TIME COMPLETED. 3/13/07 AT 11:15 AM RIG HOURS METER END: 5339.9

SAMPLING METHOD SPLIT SPOON **DIRECT PUSH** CUTTINGS BACKHOE HAND AUGER

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

NO	REC. (FT)	DEPTH (FT)	BLOWS	SAMPLE DESCRIPTION	STRATA CHANGE	PID
1	2 2	1-5		BROWN TO GRAY-BROWN FINE-MEDIUM SAND, SOME FINE-COARSE GRAVEL, LITTLE SILT, MOIST TO WET, COARSE GRAVEL AND ORGANIC DEBRIS IN TIP, BLACK STAINED, STRONG ODOR, WET SHEEN		0 2 at 0-3' 5 8 at 4'
2	2.2	5-9		0-0 5' BLACK AND GRAY STONE, LARGE GRAVEL AND FINE-MEDIUM SAND, SHEEN, ODOR 0.5'-2 2' BROWN AND GRAY STAINED FINE-MEDIUM SAND, SATURATED		8 8 at 5-6' 1.6 at 7-8'
3	1.0	9-13		GRAY FINE-MEDIUM SAND, SOME FINE-MEDIUM GRAVEL, LITTLE SILT, WET		0 8
				SET 1 5" PVC WELL TO 12'		

WELL CONSTRUCTION DETAILS

PVC Screen.	1 5 " *diameter*	0.01 " slot	10 ' *Sections*	Set from.	12' to 2'
PVC Riser	1 5 " diameter:	2 ' Sections		Set from:	2' to .5'
Filter Sock					-6 " Stick Up
Sand Pack:	12' to 1.5'	(1 bag)			
Bentonite Seal	1.5' to 1.0'	(1/8 bag)	Cap		
Grout Seal.	' to '	bags	1 Plug		
Well Finish.	X flush	Guard:	1 Gripper	Native Backfill:	
			1 BTW		

S:\Poissants Mobil Alburgh\[Soil Boring Log 031307 xls]SB-2MW-2

2-4

BORING NO SB-3/MW-3

SPECIALTY DRILLING & INVESTIGATION

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

PROJECT NAME: S/H & N/POISSANT'S MOBIL

PROJECT LOCATION: ALBURGH, VT

SHEET 1 OF 1

SOIL BORING LOG

BORING LOCATION:

DATE AND TIME STARTED: 3/13/07 AT 11:15 AM RIG HOURS METER START: 5339 9

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

DATE AND TIME COMPLETED: 3/13/07 AT 1:30 PM RIG HOURS METER END: 5341.4

SAMPLING METHOD: SPLIT SPOON **DIRECT PUSH** CUTTINGS BACKHOE HAND AUGER

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

NO.	REC (FT)	DEPTH (FT)	BLOWS	SAMPLE DESCRIPTION	STRATA CHANGE	PID
1	4.0	0.5-4.5		BROWN FINE-MEDIUM SAND, SOME SILT, SOME FINE-COARSE GRAVEL AND BRICK, MOIST TO WET		0.5
2	2 7	4 5-8.5		BROWN FINE-MEDIUM SAND, LITTLE SILT, LITTLE FINE-COARSE GRAVEL, SATURATED		0 5
3	3.0	8 5-12.5		BROWN TO GRAY FINE-MEDIUM SAND, LITTLE SILT, SOME FINE-MEDIUM GRAVEL, SATURATED		0.3
				SET 1 5" PVC WELL TO 12'		

WELL CONSTRUCTION DETAILS

PVC Screen 1 5 " diameter. 0 01 " slot 10 ' Sections Set from: 12' to 2'

PVC Riser: 1 5 " diameter: 1.5 ' Sections Set from 2' to 5'

Filter Sock -3 " Stick Up

Sand Pack: 12' to 1.5' (1/2 bag)

Bentonite Seal 1 5' to .5' (1/8 bag) Cap

Grout Seal: ' to ' bags 1 Plug

Well Finish: X flush Guard. 1 Gripper Native Backfill:

1 BTW

S:\Poissants Mobil Alburgh\[Soil Boring Log 031307 xls]SB-3MW-3

BORING NO. SB-4/MW-4

SPECIALTY DRILLING & INVESTIGATION

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

PROJECT NAME. S/H & N/POISSANT'S MOBIL

PROJECT LOCATION ALBURGH, VT

SHEET 1 OF 1

SOIL BORING LOG

BORING LOCATION: NORTHWEST CORNER OF BUILDING

DATE AND TIME STARTED 3/13/07 AT 1.30 PM RIG HOURS METER START: 5341.4

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

DATE AND TIME COMPLETED 3/13/07 AT 2.30 PM RIG HOURS METER END· 5342 5

SAMPLING METHOD: SPLIT SPOON **DIRECT PUSH** CUTTINGS BACKHOE HAND AUGER

SIZE: 24" HAMMER: 140 LB. FALL· 30"

NO	REC. (FT)	DEPTH (FT)	BLOWS	SAMPLE DESCRIPTION	STRATA CHANGE	PID
1	3 5	0-4		0'-2.0' DRY TO MOIST, SAND AND GRAVEL FILL 2.0'-3.5' BROWN-OLIVE-GRAY FINE-MEDIUM SAND, SOME SILT, SOME FINE-COARSE GRAVEL		0 3
2	3 1	4-8		RED-BROWN FINE-MEDIUM SAND, SOME SILT, SOME FINE-MEDIUM GRAVEL, WET		0.3
3	3 6	8-12		RED-BROWN TO GRAY FINE-MEDIUM SAND, SOME SILT, SOME FINE-MEDIUM GRAVEL, SATURATED	11 5' VERY DENSE	0.3
				SET 1.5" PVC WELL TO 12'		

WELL CONSTRUCTION DETAILS

PVC Screen: 1.5 " diameter: 0 01 " slot 10 ' Sections Set from: 12' to 2'

PVC Riser: 1.5 " diameter· 1.5 ' Sections Set from. 2' to 5'

Filter Sock. -3 " Stick Up

Sand Pack· 12' to 1.5' (1/2 bag)

Bentonite Seal 1.5' to .5' bags Cap

Grout Seal ' to ' bags 1 Plug

Well Finish X flush Guard. 1 Gripper Native Backfill: 12' to 0'

1 BTW

S \Poissants Mobil Alburgh\[Soil Boring Log 031307.xls]SB-4 MW-4

BORING NO. SB-5

SPECIALTY DRILLING & INVESTIGATION

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

PROJECT NAME: S/H & N/POISSANT'S MOBIL

PROJECT LOCATION: ALBURGH, VT

SHEET 1 OF 1

SOIL BORING LOG

BORING LOCATION: NORTH SIDE OF BULDING IN CENTER

DATE AND TIME STARTED: 3/13/07 AT 2 30 PM RIG HOURS METER START: 5342 5

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

DATE AND TIME COMPLETED: 3/13/07 AT 3 20 PM RIG HOURS METER END: 5342 8

SAMPLING METHOD. SPLIT SPOON **DIRECT PUSH** CUTTINGS BACKHOE HAND AUGER

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

NO.	REC. (FT)	DEPTH (FT)	BLOWS	SAMPLE DESCRIPTION	STRATA CHANGE	PID
1	3.6	0-4		BROWN/BLACK/DARK BROWN FINE-MEDIUM SAND, LITTLE SILT, SOME GRAVEL, MOIST TO WET		0.3
2	3.7	4-8		BROWN SATURATED FINE-MEDIUM SAND, SOME SILT, SOME FINE-COARSE GRAVEL, DENSE GRAY AT BOTTOM (TILL)		0 3
3				E.O.B.		

WELL CONSTRUCTION DETAILS

PVC Screen _____ " diameter _____ " slot ' Sections Set from: ' to '

PVC Riser: _____ " diameter _____ ' Sections Set from: ' to '

Filter Sock: _____ _____ " Stick Up

Sand Pack: ' to ' bags

Bentonite Seal ' to ' bags _____ Cap

Grout Seal ' to ' bags _____ Plug

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

BTW

S \Poissants Mobil Alburgh\[Soil Boring Log 031307.xls]SB-1MW-101

BORING NO. SB-6

SPECIALTY DRILLING & INVESTIGATION

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

PROJECT NAME: S/H & N/POISSANT'S MOBIL
PROJECT LOCATION: ALBURGH, VT

SHEET 1 OF 1

SOIL BORING LOG

BORING LOCATION: FRONT, NORTH OF PUMPS APPROX. 6 FT
DATE AND TIME STARTED. 3/13/07 AT 3 PM RIG HOURS METER START: 5342.8
FOREMAN. CHRIS ALDRICH H & N STAFF: CHRIS ALDRICH & MATTHEW MILLER
DATE AND TIME COMPLETED: 3/13/07 AT 3:45 PM RIG HOURS METER END: 5343 5

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

NO.	REC. (FT)	DEPTH (FT)	BLOWS	SAMPLE DESCRIPTION	STRATA CHANGE	PID
1	3 5	0-4		0-2 75' SAND AND GRAVEL FILL, MOIST 2.75'-3.5' GRAY STAINED BROWN FINE-MEDIUM SAND, LITTLE SILT LITTLE FINE-COARSE GRAVEL, WET ODOR		2.2 at 2 5' 36.4 at 3 5'
2	2.8	4-8		OLIVE-BROWN FINE-MEDIUM SAND, SOME SILT, SOME FINE-COARSE GRAVEL, WET, SLIGHT ODOR		329 5 at 6' 6 7 at 8'
3		8-12		NO RECOVERY		0 3 at 12'

WELL CONSTRUCTION DETAILS

PVC Screen: _____ " diameter. _____ " slot ' Sections Set from: _____ ' to ' _____
PVC Riser: _____ " diameter: _____ ' Sections Set from. _____ ' to ' _____
Filter Sock: _____ _____ " Stick Up
Sand Pack _____ ' to ' _____ bags
Bentonite Seal. _____ ' to ' _____ bags _____ Cap
Grout Seal: _____ ' to ' _____ bags _____ Plug
Well Finish: _____ flush Guard: _____ _____ Gripper Native Backfill: _____ ' to ' _____
BTW

S \Poissants Mobil Alburgh\[Soil Boring Log 031307 xls]SB-6

2-8

APPENDIX 3

APPENDIX 3

ENDYNE, INC.

Laboratory Services

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

LABORATORY REPORT

Heindel & Noyes
PO Box 4503,
Burlington, VT 05406-4709
Attn: David Martin

PROJECT: Poissants Mobil
ORDER ID: 52677
RECEIVE DATE: March 20, 2007
REPORT DATE: March 27, 2007

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

3-1

ENDYNE, INC.

Laboratory Services

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

LABORATORY REPORT
SW 8260

CLIENT: Heindel & Noyes
PROJECT: Poissants Mobil
SITE: MW-1
DATE RECEIVED: March 20, 2007
REPORT DATE: March 27, 2007
ANALYSIS DATE: March 20, 2007

ORDER ID: 52677
REFERENCE NUMBER: 294484
DATE SAMPLED: March 20, 2007
TIME SAMPLED: 1:10 PM
SAMPLER: DM
ANALYST: 110

Parameter	Result ug/L
Benzene	84.8
Bromobenzene	< 1.0
Bromochloromethane	< 2.0
Bromodichloromethane	< 1.0
Bromoform	< 2.0
Bromomethane	< 5.0
n-Butylbenzene	1.2
sec-Butylbenzene	< 1.0
tert-Butylbenzene	< 1.0
Carbon Tetrachloride	< 1.0
Chlorobenzene	< 1.0
Chloroethane	< 3.0
Chloroform	< 1.0
Chloromethane	4.8
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	1.2
trans-1,2-Dichloroethene	< 1.0
1,2-Dichloropropane	< 2.0
1,3-Dichloropropane	< 1.0
2,2-Dichloropropane	< 1.0
1,1-Dichloropropene	< 1.0
cis-1,3-Dichloropropene	< 1.0
trans-1,3-Dichloropropene	< 1.0
Ethylbenzene	16.4

Parameter	Result ug/L
Hexachlorobutadiene	< 2.0
Isopropylbenzene	4.8
p-Isopropyltoluene	2.6
Methylene Chloride	< 5.0
MTBE	764.
Naphthalene	3.9
n-Propylbenzene	5.1
Styrene	< 1.0
1,1,1,2-Tetrachloroethane	< 2.0
1,1,2,2-Tetrachloroethane	< 2.0
Tetrachloroethene	< 1.0
Toluene	3.6
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	26.6
1,3,5-Trimethylbenzene	13.7
Vinyl Chloride	< 2.0
Xylenes, Total	14.9
Surrogate 1	103.%
Surrogate 2	100.%
Surrogate 3	97.%
UIP's	> 10.

ACCREDITED IN ACCORDANCE WITH ELAP 11263

3-2

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

CHAIN-OF-CUSTODY-RECORD

90783

Special Reporting Instructions:

Project Name:	Reporting Address:	Billing Address:
Poissants mobil	H+N	H+N
Endyne Order ID: (Lab Use Only) 52677 -O -I -S	Company: H+N Contact Name/Phone #: David Martin 658-0820 x33	Sampler Name: David Martin Phone #: 658-0820 x 33

Ref # (Lab Use Only)	Sample Identification	Matrix	GRAB	COMP	Date/Time 3/20/7	Sample Containers No.	Type/Size	Field Results/Remarks	Analysis Required	Sample Preservation	Rush
	mw-1	H_2O	X		1310	2	40ml		8260	HCl	
	mw-2	↓	↓		1330	↓			8021B	HCl	
	mw-3				1345				8021B	HCl	
	mw-4	↓	↓		1340	↓			8021B	HCl	

Relinquished by:	Date/Time	Received by:	Date/Time	Received by:	Date/Time
David Martin	3/20/7 14:45	[illegible]	3/20/07 2:45		

New York State Project: Yes _____ No _____

Requested Analyses

1	pH	6	TKN	11	Total Solids	16	Sulfate	21	1664 TPH/FOG	26	8270 PAH
2	Chloride	7	Total P	12	TSS	17	Coliform (Specify)	22	8015 GRO	27	PP13 Metals
3	Ammonia N	8	Total Diss. P	13	TDS	18	COD	23	8015 DRO	28	RCRA8 Metals
4	Nitrite N	9	BOD	14	Turbidity	19	8021B	24	8260/8260B	29	
5	Nitrate N	10	Alkalinity	15	Conductivity	20	8010/8020	25	8270 B/N or Acid	30	
31	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										
32	TCLP (Specify: volatiles, semi-volatiles, metals, pesticides, herbicides)					33					
34	Other										

LAB USE ONLY
Delivery: Client
Temp: 7.3°C
Comment:
Just taken
Still cooling

(White, Yellow - Laboratory / Pink - Client)

ENDYNE, INC.

Laboratory Services

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

LABORATORY REPORT

Heindel & Noyes
PO Box 4503,
Burlington, VT 05406-4709
Attn: David Martin

PROJECT: Poissants Mobil
ORDER ID: 52677
RECEIVE DATE: March 20, 2007
REPORT DATE: March 27, 2007

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

ACCREDITED IN ACCORDANCE WITH
ELAP 11263

3-4

ENDYNE, INC.

Laboratory Services

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

LABORATORY REPORT

CLIENT: Heindel & Noyes
PROJECT: Poissants Mobil
REPORT DATE: March 27, 2007

ORDER ID: 52677
DATE RECEIVED: March 20, 2007
SAMPLER: DM

Site: MW-2
Ref. Number: 294485 Date Sampled: 3/20/07
Anal. Method: SW 8260 Time Sampled: 1:30 PM
Analyst: 110 Analysis Date: 3/20/07

Parameter	Results ug/L
MTBE	44.5
Benzene	2.9
Toluene	1.2
Ethylbenzene	< 1.0
Xylenes, Total	< 2.0
1,3,5 Trimethyl Benzene	< 1.0
1,2,4 Trimethyl Benzene	2.3
Naphthalene	< 2.0
UIP's	> 10.
Surrogate 1	93.%

Site: MW-4
Ref. Number: 294487 Date Sampled: 3/20/07
Anal. Method: SW 8260 Time Sampled: 12:40 PM
Analyst: 110 Analysis Date: 3/20/07

Parameter	Results ug/L
MTBE	2.8
Benzene	< 1.0
Toluene	< 1.0
Ethylbenzene	< 1.0
Xylenes, Total	3.7
1,3,5 Trimethyl Benzene	< 1.0
1,2,4 Trimethyl Benzene	1.2
Naphthalene	< 2.0
UIP's	0.
Surrogate 1	96.%

Site: MW-3
Ref. Number: 294486 Date Sampled: 3/20/07
Anal. Method: SW 8260 Time Sampled: 1:45 PM
Analyst: 110 Analysis Date: 3/20/07

Parameter	Results ug/L
MTBE	9.1
Benzene	< 1.0
Toluene	< 1.0
Ethylbenzene	< 1.0
Xylenes, Total	< 2.0
1,3,5 Trimethyl Benzene	< 1.0
1,2,4 Trimethyl Benzene	< 1.0
Naphthalene	< 2.0
UIP's	0.
Surrogate 1	94.%

3-5

ENDYNE, INC.

Laboratory Services

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

LABORATORY REPORT

CHARACTERIZATION OF UNIDENTIFIED PEAKS

RECEIVED
Heindel and Noyes

CLIENT: Heindel & Noyes
PROJECT NAME: Poissants Mobil
REPORT DATE: May 17, 2007

DATE RECEIVED: March 20, 2007
ORDER ID: 52677
SAMPLER: DM

Unidentified peak characterization is achieved by direct comparison of sample and library spectral data:
Approximate concentration range of non-calibrated peaks is based on relative response to the closest internal standard.

REFERENCE NUMBER: 294,484
SITE: Mw-1
NUMBER UIPs: > 10.

Peak I.D. (Best Library Match)	Approx. Conc. Range (ug/L)
alkylated benzenes (> 10)	1-40.
alkylated PAHS (> 10.)	1-20.
aliphatic hydrocarbons (> 10.)	1-5.
Acetone	30.

REFERENCE NUMBER: 294,485
SITE: Mw-2
NUMBER UIPs: 10.

Peak I.D. (Best Library Match)	
alkylated benzenes (> 10)	1-5.
alkylated PAHS (10.)	1-5.
aliphatic hydrocarbons (10.)	trace
Acetone	50.

3-

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

CHAIN-OF-CUSTODY-RECORD

90783

Special Reporting Instructions:

Project Name:	Reporting Address:	Billing Address:
Poissants mobil	H+N	H+N
Endyne Order ID: (Lab Use Only) 52677 — D-O / -I / -S	Company: H+N Contact Name/Phone #: David Martin 658-0820 x33	Sampler Name: David Martin Phone #: 658-0820 x 33

Ref # (Lab Use Only)	Sample Identification	Matrix	GRAB	COMP	Date/Time 3/20/7	Sample Containers No.	Sample Containers Type/Size	Field Results/Remarks	Analysis Required	Sample Preservation	Rush
	mw-1	H_2O	X		1310	2	40ml		8260	HCl	
	mw-2	↓	↓		1330	↓			8021B	HCl	
	mw-3	↓	↓		1345	↓			8021B	HCl	
	mw-4	↓	↓		1240	↓			8021B	HCl	

Relinquished by:	Date/Time	Received by:	Date/Time	Received by:	Date/Time
David Martin	3/20/7 14:45	[signature]	3/20/07 2:45		

New York State Project: Yes _____ No _____

Requested Analyses

1	pH	6	TKN	11	Total Solids	16	Sulfate	21	1664 TPH/FOG	26	8270 PAH
2	Chloride	7	Total P	12	TSS	17	Coliform (Specify)	22	8015 GRO	27	PP13 Metals
3	Ammonia N	8	Total Diss. P	13	TDS	18	COD	23	8015 DRO	28	RCRA8 Metals
4	Nitrite N	9	BOD	14	Turbidity	19	8021B	24	8260/8260B	29	
5	Nitrate N	10	Alkalinity	15	Conductivity	20	8010/8020	25	8270 B/N or Acid	30	
31	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										
32	TCLP (Specify: volatiles, semi-volatiles, metals, pesticides, herbicides)					33					
34	Other										

LAB USE ONLY
Delivery: Cleo
Temp: 7.3°C
Comment: Just taken still cooling

(White, Yellow - Laboratory / Pink - Client)