

**WAGNER, HEINDEL, and NOYES, Inc.**

P.O. Box 1629 Burlington, Vermont 05402-1629

- Consulting Hydrogeologists
- Engineers
- Environmental Scientists

802-658-0820

FAX: 802-860-1014

September 29, 1993

Mr. Chuck Schwer  
Supervisor, Sites Management Section  
Hazardous Materials Management Division  
Agency of Natural Resources  
103 South Main Street/West Building  
Waterbury, VT 05671-0404

Re: South Burlington Street Department (Site #93-1383)

Dear Chuck:

Attached is the Site Investigation Report for the above-referenced site.

We look forward to hearing from you following your review of this material. If you have any further questions, please contact either Jeff Noyes or myself.

Sincerely,

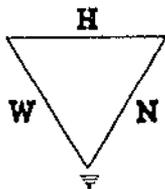
Michele Christopher, REM #5773  
Environmental Engineer

MC/ew

cc: Mr. Charles Hafter, City Manager of South Burlington

Attachments

[L2-SCHWER/MC 7-17-93]



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**THE SOUTH BURLINGTON STREET DEPARTMENT**  
**Patchen Road**  
**South Burlington, Vermont**

**UNDERGROUND STORAGE TANK**  
**SITE INVESTIGATION**  
**SITE NO. 93-1383**

**Prepared for:**  
**City of South Burlington**

**Prepared by:**

*Michele Christopher*

**Michele Christopher, REM #5773**  
**Environmental Engineer**

**Reviewed and Approved by:**

*Jeffrey Noyes*  
*ral.*

**Jeffrey E. Noyes**  
**Principal**

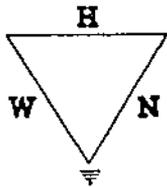
**September 29, 1993**

**THE SOUTH BURLINGTON STREET DEPARTMENT**  
**Patchen Road**  
**South Burlington, Vermont**

**UNDERGROUND STORAGE TANK SITE INVESTIGATION**  
**SITE NO. 93-1383**

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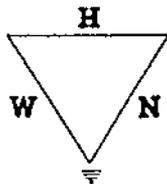
FAX: 802-860-1014

**THE SOUTH BURLINGTON STREET DEPARTMENT  
Patchen Road  
South Burlington, Vermont**

**UNDERGROUND STORAGE TANK SITE INVESTIGATION  
SITE NO. 93-1383**

**EXECUTIVE SUMMARY**

- On April 30, 1993, three underground storage tanks were removed from the South Burlington Street Department Maintenance Facility parking lot located next to the South Burlington Landfill, off of Patchen Road, in South Burlington, Vermont. One of the tanks stored diesel fuel and the other two stored unleaded gasoline.
- Based on previous landfill investigations conducted by Wagner, Heindel, and Noyes, Inc. (WH&N) groundwater flow is toward a stream which runs through a culvert beneath the adjacent South Burlington Landfill.
- Groundwater from the newly installed South Burlington Street Department's MW-1 and from the previously installed MW-6D located on the adjacent South Burlington Landfill site, were analyzed for benzene, toluene, ethylbenzene, and xylenes (BTEX) compounds. These results were compared to earlier sampling events for MW-6D. For groundwater samples obtained from MW-1, toluene, ethylbenzene, and xylenes are significantly below the Chapter 12 Enforcement Standards. Benzene was found above this standard of 5 ppb at 30 ppb. However, groundwater from the downgradient well on the South Burlington Landfill property, MW-6D, contained benzene at 10 to 20 times the levels observed at MW-1. Because groundwater downgradient from the tanks is already impacted by the South Burlington's unlined sanitary landfill, the nominal contamination observed at the tank site will unlikely increase risk to the environment. The soil logs indicate that a clay lense separates the petroleum contamination from the aquifer. WH&N believes that minimization of the gasoline contamination in route to the water table can be effected inexpensively and efficiently through the use of a temporary 2-tier Vapor Extraction System (VES). We believe that two-tiered (2 deep wells and 2 shallow wells) VES wells installed in the former tank site would remove the bulk of the residual gasoline within 3-4 months.



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- Engineers
- Environmental Scientists

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**THE SOUTH BURLINGTON STREET DEPARTMENT  
Patchen Road  
South Burlington, Vermont**

**UNDERGROUND STORAGE TANK SITE INVESTIGATION  
SITE NO. 93-1383**

**1.0 OVERVIEW**

**Company performing work:** Wagner, Heindel, and Noyes, Inc.  
P.O. Box 1629  
Burlington, VT 05402-1629  
802-658-0820  
FAX: 802-860-1014

**Site owner:** City of South Burlington

**Contact:** Charles Hafter, South Burlington City Manager  
575 Dorset Street  
South Burlington, VT 05403  
802-658-7953

**Tank owner/operator:** South Burlington Street Department  
Patchen Road  
South Burlington, VT  
Contact: Sonny Audette  
802-658-7961

**Rationale for site investigation:**

This site investigation is being performed in response to an observed release of petroleum in the vicinity of three underground storage tanks (USTs) following their

removal on April 30, 1993. The scope of this investigation includes the installation of an appropriately-placed monitoring well, soil screening of split-spoon samples using a field photoionization detector (PID), and analysis of groundwater samples by EPA Method 8020, in order to determine the severity of the release.

**State notification made:** The release was reported to the State Sites Management Section (SMS) by the tank removal inspector Peter M. Murray, a Hydrogeologist from Griffin International. The SMS responded to the City of South Burlington and required them to retain environmental consultants in order to perform this site investigation.

## 2.0 SETTING AND LAYOUT

The South Burlington Street Department facility lot is located off of Patchen Road next to the South Burlington Landfill. The USGS topographic map is presented in Appendix 1, page 2. A scaled (1" = 50') site plan in Appendix 1, page 1, illustrates the former and current UST locations, as well as the locations of MW-1 and MW-6D are situated.

Groundwater is likely to flow towards a small stream, which runs through a culvert beneath the South Burlington Landfill. This stream eventually empties to the Winooski River.

## 3.0 SITE HISTORY

On April 30 of 1993 three 4,000 gallon USTs were removed from the site. One had been used to store diesel fuel and the other two had been used to store unleaded gasoline. All three tanks had been out of service for approximately a year. These removed USTs were reportedly installed seven or eight years ago to replace two 1,000 gallon USTs which stored diesel and gasoline. The April 30, 1993 tank removal inspector, noted that none of the tanks were pitted nor appeared to be leaking and that they were in good condition.

#### 4.0 INITIAL SAMPLING AND SCREENING

The purpose of this investigation is to determine the extent of petroleum release. Therefore, as part of this investigation MW-1 was installed on the downgradient perimeter of the former tank site on July 22, 1993. The associated well logs are presented in Appendix 2. During the drilling of this well, contaminated soil was observed at approximately 4-6 feet below the ground surface (bgs) with associated PID readings of 62 ppm and some odor. At approximately 8-13 feet bgs, a maximum PID reading of 1,658 ppm was observed, with a very strong petroleum odor. At 13-22 feet bgs, PID readings of 1,447 ppm and 1,369 ppm were observed, with a very strong petroleum odor. At 25-32 feet bgs, the soil was observed to be saturated very fine silty sand, with intermittent silt layers, and then a layer of very dense, grayish-brown silty clay/clayey silt. PID readings at this layer were noted to be at 0.0 ppm, with no observable odor. At 35-37 feet bgs, a reduced layer of contamination was noted, with a PID of approximately 80 ppm. These data indicate that petroleum products have contaminated soil to approximately 25 feet below the ground surface (bgs), and that a clay lense separates the contaminants from the lower aquifer.

This well was installed using a factory-slotted 0.020-inch screen situated at 53 feet to 43 feet below the ground surface. Numbers 1 sand was installed at 53 feet to 41.5 feet bgs, with a bentonite seal at 41.5 to 31.5 bgs. A second bentonite seal was installed at 28 feet to 18 feet bgs and was topped with native fill. A 6-inch, flush-mounted well guard was also installed.

Soils collected during well installation were logged and placed in Ziploc bags and were then screened for volatile organic compounds using a Photovac MicroTIP with a 10.6 eV UV probe. All soil descriptions and PID results are provided in the soil boring logs in Appendix 2.

Water levels were permitted to equilibrate in the well and groundwater samples were taken from both the newly-installed MW-1 and from a nearby monitoring well, MW-6D, located on the property of the South Burlington Landfill. Water levels taken on August 2, 1993 were observed at 50.56' and 55.85' below top of pipe (btp) for MW-1 and MW-6D respectively. The analytical results are presented on page 4.

South Burlington Street Department Patchen Road South Burlington, Vermont							
Groundwater Monitoring Results (parts per billion)							
Compound	Sampling Date						
	8/2/93 MW-1	8/2/93 MW-6D	5/6/93 MW-6D	10/6/92 MW-6D	6/3/92 MW-6D	6/3/92 MW-6D (Dup)	ES*
Benzene	30	766	324	345	473	371	5
Toluene	30.7	109	58.3	<2	48.6	38.5	2420
Ethylbenzene	<1	1.6	3.4	ND	<3	<3	680
Xylenes	76	41.5	25.4	<5	ND	ND	400
Total BTEX	137	918	411	345	522	410	
Unidentified Peaks	>25	0	0	0	0	0	
MTBE	23.6	ND	ND	ND	ND	ND	
* Enforcement Standards from the Chapter 12 Groundwater Protection Rule and Strategy (9/29/89)							

The data presented for monitoring well MW-6D is part of the public record and is presented here for purposes of comparison.

## 5.0 INITIAL RISK EVALUATION

The subject property is directly upgradient from the South Burlington Landfill. Groundwater in contact with the sanitary landfill is the most likely downgradient receptor.

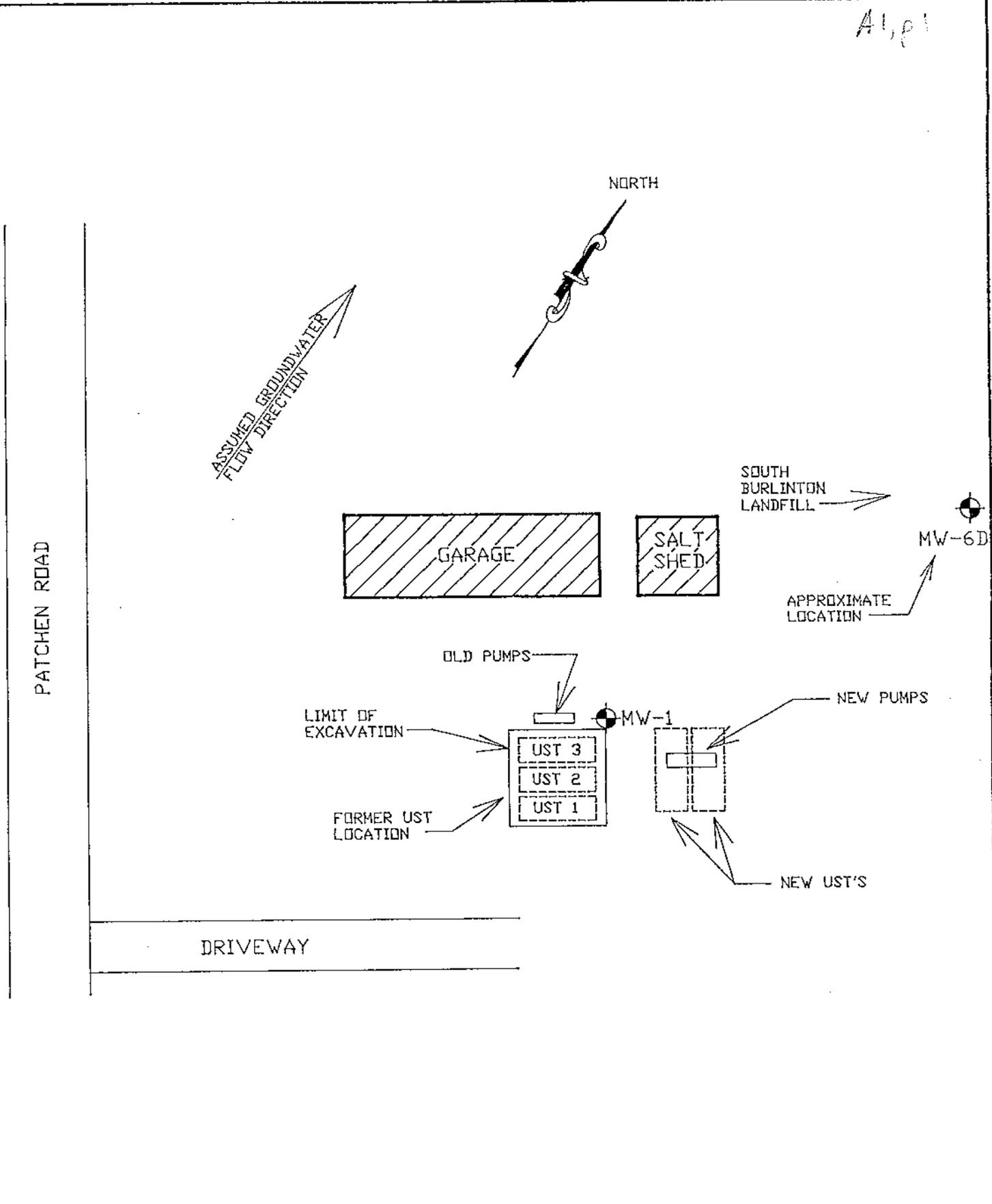
## 6.0 CONCLUSIONS AND RECOMMENDATIONS

The analytical data indicate that all of the specific compounds are below enforcement standards dictated by the Chapter 12 Groundwater Protection Rule and Strategy, with the exception of benzene. The downgradient waters are significantly more contaminated than the groundwater obtained from the South Burlington Street Department site. However,

the soil logs (Appendix 2) indicate that there is a significant volume of contaminant in the vadose zone above the phreatic surface. To avoid further potential groundwater degradation, WH&N recommends that a temporary two-tiered VES system be installed to facilitate volatilization of the petroleum contaminants.

[RPT-SBSTREET/MC 8-23-93]

A1, p1



C:\S\B\DOWN\TANKPULL.DWG

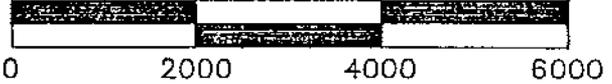
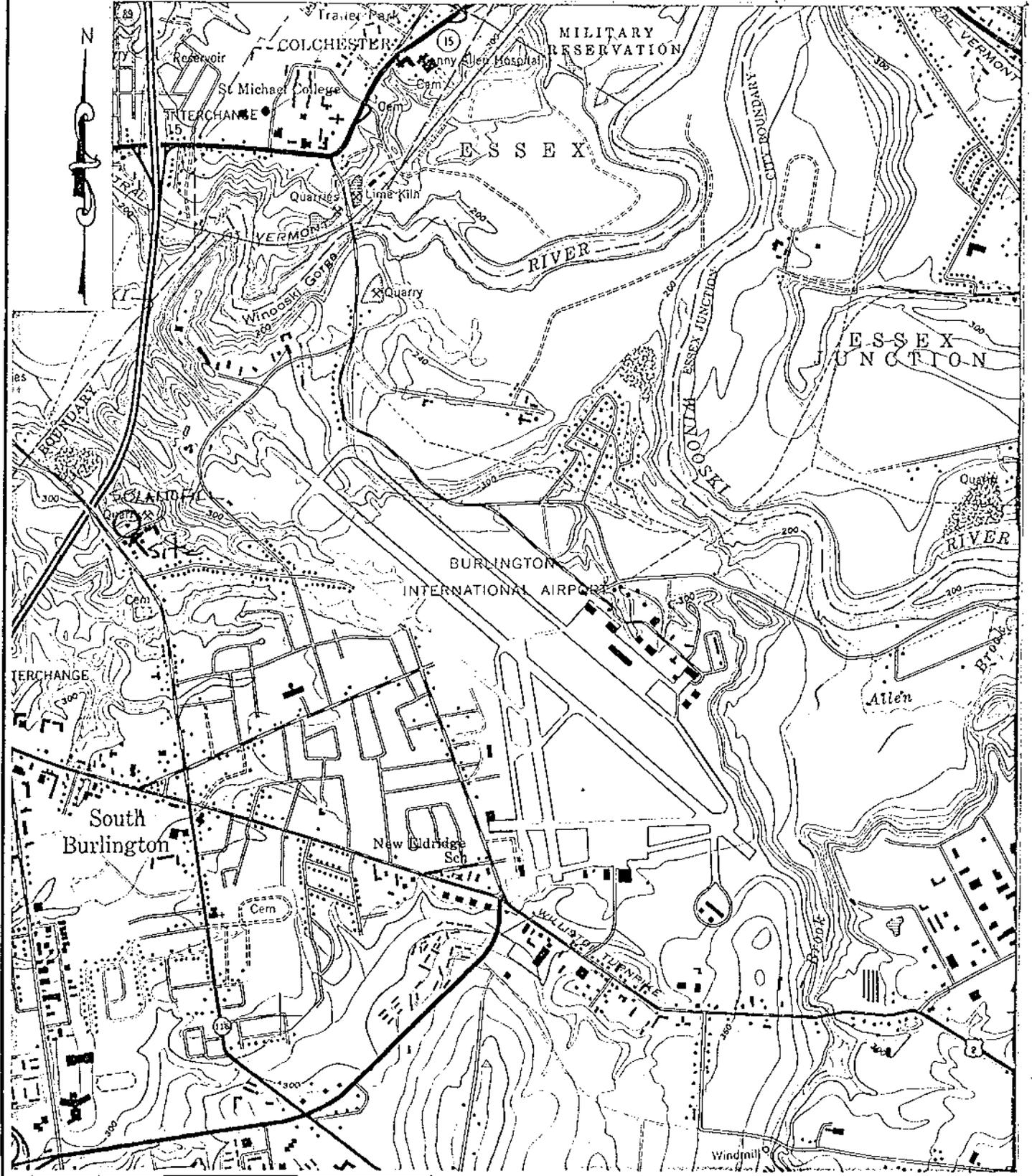


Wagner, Heindel, and Noyes  
 CONSULTING SCIENTISTS AND ENGINEERS  
 • Hydrogeology • Ecology •  
 • Environmental Engineering •  
 BURLINGTON, VERMONT

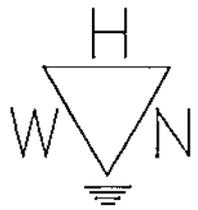
SOUTH BURLINGTON STREET DEPT.  
 PATCHEN ROAD  
 SOUTH BURLINGTON, VERMONT

### SITE MAP

DATE: 8/27/93 SCALE: 1"=50' DRN: MRL APPD: MC



QUAD:



**Wagner, Heindel, and Noyes**  
 CONSULTING SCIENTISTS AND ENGINEERS  
 • Hydrogeology • Ecology •  
 • Environmental Engineering •  
**BURLINGTON, VERMONT**

*Santa Burlington STREET DEPT  
 Patchen Road  
 South Burlington, VT*

**USGS TOPOGRAPHIC MAP**

DATE: 8/27/43 SCALE: 1:24,000 DRN: APPD: gmc

**SOUTH BURLINGTON - STREET DEPARTMENT  
PATCHEN ROAD**

**SOIL BORING LOG WITH MONITORING WELL DETAILS**

July 22, 1993

Page 1

Drilling contractor: Tri-State Drilling and Boring  
Drillers: Neil Faulkner and Storm Hogan  
Environmental Engineer: Michele Christopher (WH&N)

**MW-1**

Weather: 60-70° Fahrenheit, overcast, with rain late in the day

Sample Number	Depth	Blow Counts Per 6 Inches	Recovery in Feet	Soil Logs
S1	0 - 2'	15,17,21,17	1.0'	0 - 1.0' Light brown very fine sand with some silt and concrete, dry.  Note: PID = 0.0 ppm; no odor
S2	2' - 4'	7,18,20,25	1.2'	0 - 1.2' Very fine light brown sand with silt, damp.  Note: PID = 0.0 ppm; no odor
S3	4' - 6'	6,10,6,10	1.6'	0 - 1.35' Light brown very fine silty sand with horizontal laminations. 1.35' - 1.6' Light brown very fine silty sand with dense siltier layers (1 cm)  Note: Max. PID = 62 ppm; some odor.
S4	6' - 8'	6,7,8,12	1.6'	0 - 1.6' Light brown very fine sand with some silt laminations, 1 cm darker silt layers intertwined, moist.  Note: Max. PID = 61.9 ppm

**SOUTH BURLINGTON - STREET DEPARTMENT  
PATCHEN ROAD**

**SOIL BORING LOG WITH MONITORING WELL DETAILS**

July 22, 1993

Page 2

S5 (5' sample)	8' - 13'	5,5,5,5 7,6,9,5,7,6	2.0'	0 - 2.0' Very fine sand with silt, horizontal laminations  Note: Max. PID = 1,658 ppm; STRONG ODOR.
S6 (5' sample)	13' - 18'	2,5,11,8, 6,11,8,12, 12,19	30"	0 - 30" Light brown silty sand (dry) with denser wet silt layers  Note: Max. PID = 1,447 ppm; STRONG ODOR.
S7	20' - 22'	4,10,7,4	1.7'	0 - 1.4' Light brown very fine sand, moist. 1.4' - 1.7' Darker very fine silty sand, thixotropic, wet.  Note: Max. PID = 1,369 ppm; STRONG ODOR.
S8	25' - 27'	2,3,4,5	1.6'	0 - 1.6' Nearly saturated, very fine silty sand, thixotropic, soils are dense with intermittent silt layers.  Note: PID = 0.0 ppm; no odor.
S9	30' - 32'	2,4,4,4	2.0'	Very dense grayish- brown silty clay/clayey silt  Note: Max. PID = 0.0 ppm; no odor.
S10	35' - 37'	10,12,14,21	21"	0 - 21" Olive-brown very fine sand with some silt, moist.  Note: Max. PID = 79.6 ppm

**SOUTH BURLINGTON - STREET DEPARTMENT  
PATCHEN ROAD**

**SOIL BORING LOG WITH MONITORING WELL DETAILS**

July 22, 1993

Page 3

S11	40' - 42'	10,12,11,8	1.2'	0 - 0.4' Light brown very fine silty sand, damp. 0.4' - 0.5' Medium brown, dense, very fine silt, damp 0.5' - 0.7' Light brown very fine silty sand with some clay, damp 0.7' - 1.2' Medium brown, dense, very fine silt with some clay, wet.  Note: Max. PID = 11.6 ppm
S12	45' - 47'	9,10,11,11	1.7'	0 - 0.9' Medium brown, dense silt with clay 0.9' - 1.4' Light brown sand, dry to moist 1.4' - 1.7' Medium brown, dense silt with clay  Note: Max. PID = 0.0 ppm
S13	50' - 52'	5,4,4,5	2.0'	0 - 0.9' Gray, saturated, very fine sandy silt, thixotropic 0.9' - 1.3' Gray clayey silt, silty clay 1.3' - 2.0' Gray, saturated, thixotropic very fine sandy silt  Note: Max. PID = 0.0 ppm; no observable odor.  Auger refusal at 53' bgs.

**Monitoring Well #1 Installation Details:**

- 0.020' factory-slotted screen from 53' - 43' bgs
- No. 1 sand from 53' - 41.5' bgs
- Bentonite seal from 41.5 - 31.5' bgs
- Native fill from 39.5' - 28.0" bgs
- Bentonite seal from 28.0' - 18.0' bgs
- Native fill to top
- 6" flush-mounted well guard installed

SOIL PROBE LOG

Page 1 of 2  
 MW# 1  
 Patchen Road  
 So. Burlington, VT

TRI STATE  
 DRILLING & BORING, INC.  
 RFD #2, Box 113 West Burke, VT 05871  
 (802) 467-3123

		SAMPLER	SOIL
TYPE	HSA	Continuous	Saturated
SIZE	2"	SS	Wet
HAMMER	140#		Moist
FALL	30"		Damp
			Slightly Damp

DATE STARTED: 7/21/93

DATE COMPLETED: 7/21/93

FOOTAGE

DEPTH BLOW COUNTS REC DRILLER'S NOTES & COMMENTS

6 12 18 24

0-2'	16	17	21	17	18"	Dry.	White crushed rock fill over 14" of brown very fine sand trace of silt in vertical layers.
2-4'	7	18	20	25	15"	Dry.	8" of very fine silty sand over very fine sand.
4-6'	6	10	6	10	20"	Dry.	Olive brown very fine sand, gas odor near bottom of sample.
6-8'	6	7	8	12	20"	Dry.	Same as above, gas odor.
8-10'	5	5	5	5	5"	Dry.	Same as above, gas odor.
10-13'	6	9	5	7	6"		Did not observe sample.
13-18'	2	5	11	8	68C	11BC	*Put 2 split spoons together for 5'.
18-20'	6	12	12	19	30"	Dry.	Same as above.
20-22'	4	10	7	4	20"	Wet.	Same as above, wet near bottom.

\*\*\*Continue on page 2.

Client: Patchen Road  
 Job Location: So. Burlington, VT  
 Engineer: Wagner, Heindel & Noyes  
 Burlington, VT  
 Inspector: Michelle Christopher

Driller: Neal Faulkner  
 Helper: Sean Hogan  
 Materials: \*See page 2.

A2, p5

SOIL PROBE LOG

Page 2 of 2  
NW# 1  
Patchen Road  
So. Burlington, VT

TRI STATE  
DRILLING & BORING, INC.  
RFD #2, Box 113 West Burke, VT 05871  
(802) 467-3123

		SAMPLER	SOIL
TYPE	HSA	Continuous	Saturated
SIZE	2"	SS	Wet
HAMMER	140#		Moist
FALL	30"		Damp
			Slightly Damp

DATE STARTED: 7/21/93

DATE COMPLETED: 7/21/93

FOOTAGE

DEPTH    BLOW COUNTS    REC    DRILLER'S NOTES & COMMENTS

6 12 18 24

25-27'	2	3	4	5	14"	Wet.	Gray brown silt trace of clay, no gas odor.
30-32'	2	4	4	4			Gray clay, no odor.
35-37'	10	19	14	21	18"	Moist.	Olive brown very fine sand, trace of silt, some odor.
40-42'	10	12	11	8	16"	Moist.	Olive brown very fine sand 6" of very fine silty sand on bottom with perched water on top, trace of clay.
45-47'	9	10	11	11	21"	Moist.	Olive brown silty fine sand with clay fine sand layer near bottom.
50-52'	5	4	4	5	24"	Wet.	Gray blue silty very fine sand 5" clay layer mid sample.
							Auger refusal at 53'.

Screen 53' to 43' below GS. Riser 43' to SS. Sand to 41'6" below GS.  
Bentonite to 39'6" below GS. Fill to 28' below GS. Bentonite 28' to 18' below GS. Fill to surface.

Client: Patchen Road  
Job Location: So. Burlington, VT  
Engineer: Wagner, Heindel & Noyes  
Burlington, VT  
Inspector: Michelle Christopher

Driller: Neal Faulkner  
Helper: Sean Hogan  
Materials: 4 sand, 1.5 hole plug.

A3, 11



**ENDYNE, INC.**

Laboratory Services

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

REPORT OF LABORATORY ANALYSIS

CLIENT: Wagner, Heindel, and Noyes, Inc.      PROJECT CODE: HNSB1931  
PROJECT NAME: South Burlington Street Dept      REF.#: 49,368 - 49,369  
REPORT DATE: August 12, 1993  
DATE SAMPLED: August 2, 1993

Enclosed please find the results of the analyses performed for the samples referenced on the attached chain of custody. Chain of custody indicated preservation with  $\text{NaN}_3$ .

All samples were prepared and analyzed by requirements outlined in the referenced method and within the specified holding times. All instrumentation was calibrated with the appropriate frequency and verified by the requirements outlined in the referenced method. Blank contamination was not observed at levels affecting the analytical results.

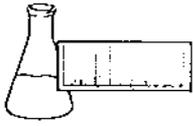
Analytical method precision and accuracy was monitored by laboratory control standards which included matrix spike, duplicate and quality control analyses. These standards were determined to be within established laboratory method acceptance limits.

Individual sample performance was monitored by the addition of surrogate analytes to each sample. All surrogate recovery data was determined to be within laboratory QA/QC guidelines unless otherwise noted.

Reviewed by,

Harry B. Locker, Ph.D.  
Laboratory Director

enclosures



**ENDYNE, INC.**

Laboratory Services

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

LABORATORY REPORT

EPA METHOD 8020 -- PURGEABLE AROMATICS

CLIENT: Wagner, Heindel, and Noyes, Inc.  
PROJECT NAME: South Burlington Street Dept  
REPORT DATE: August 12, 1993  
DATE SAMPLED: August 2, 1993  
DATE RECEIVED: August 2, 1993  
ANALYSIS DATE: August 12, 1993

PROJECT CODE: HNSB1931  
REF.#: 49,368  
STATION: MW 6d  
TIME SAMPLED: 10:00  
SAMPLER: C. Aldrich

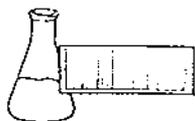
<u>Parameter</u>	<u>Detection Limit (ug/L)</u>	<u>Concentration (ug/L)</u>
Benzene	1	766.
Chlorobenzene	1	ND
1,2-Dichlorobenzene	1	ND
1,3-Dichlorobenzene	1	ND
1,4-Dichlorobenzene	1	ND
Ethylbenzene	1	1.6
Toluene	1	109.
Xylenes	1	41.5
MTBE	10	ND

Bromobenzene Surrogate Recovery: 104%

NUMBER OF UNIDENTIFIED PEAKS FOUND: 0

NOTES:

1 None detected



**ENDYNE, INC.**

Laboratory Services

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

LABORATORY REPORT

EPA METHOD 8020 -- PURGEABLE AROMATICS

CLIENT: Wagner, Heindel, and Noyes, Inc.  
PROJECT NAME: South Burlington Street Dept  
REPORT DATE: August 12, 1993  
DATE SAMPLED: August 2, 1993  
DATE RECEIVED: August 2, 1993  
ANALYSIS DATE: August 12, 1993

PROJECT CODE: HNSB1931  
REF.#: 49,369  
STATION: MW 1  
TIME SAMPLED: 10:30  
SAMPLER: C. Aldrich

<u>Parameter</u>	<u>Detection Limit (ug/L)</u>	<u>Concentration (ug/L)</u>
Benzene	1	30.0
Chlorobenzene	1	ND <sup>1</sup>
1,2-Dichlorobenzene	1	ND
1,3-Dichlorobenzene	1	ND
1,4-Dichlorobenzene	1	ND
Ethylbenzene	1	TBQ <sup>2</sup> < 1 ppb
Toluene	1	30.7
Xylenes	1	76.0
MTBE	10	23.6

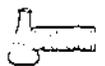
Bromobenzene Surrogate Recovery: 108%

NUMBER OF UNIDENTIFIED PEAKS FOUND: >25

NOTES:

- 1 None detected
- 2 Trace below quantitation limit

13 pH

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

007822

**CHAIN-OF-CUSTODY RECORD**

Project Name: <u>South Burlington Street Dept</u> Site Location: <u>So. Burl. VT</u>	Reporting Address: <u>WHW</u>	Billing Address: <u>WHW</u>
Endyne Project Number: <u>1105B 1761</u>	Company: <u>WHW</u> Contact Name/Phone #: <u>M. Christopher 658 0820</u>	Sampler Name: <u>C. Aldrich</u> Phone #: <u>658 0820</u>

Lab #	Sample Location	Matrix	G R A B	C O M P	Date/Time	Sample Containers		Field Results/Remarks	Analysis Required	Sample Preservation	Rush
						No.	Type/Size				
<u>4936B</u>	<u>MW 6d</u>	<u>H<sub>2</sub>O</u>	<input checked="" type="checkbox"/>		<u>8/2/93</u> <u>10<sup>00</sup>A</u>	<u>2</u>	<u>40ml</u>		<u>8020</u>	<u>NADP</u>	
<u>4936E</u>	<u>MW 1</u>	<u>"</u>	<input checked="" type="checkbox"/>		<u>10<sup>30</sup>A</u>	<u>2</u>	<u>40ml</u>		<u>8020</u>	<u>"</u>	

Relinquished by: Signature <u>Chris Aldrich</u>	Received by: Signature <u>J. M. Petty</u>	Date/Time <u>8/2/93 10:55am</u>
Relinquished by: Signature	Received by: Signature	Date/Time

**Requested Analyses**

1	pH	6	TKN	11	Total Solids	16	Metals (Specify)	21	EPA 624	26	EPA 8270 B/N or Acid
2	Chloride	7	Total P	12	TSS	17	Coliform (Specify)	22	EPA 625 B/N or A	27	EPA 8010/8020
3	Ammonia N	8	Total Diss. P	13	TDS	18	COD	23	EPA 418.1	28	EPA 8080 Pest/PCB
4	Nitrite N	9	BOD <sub>5</sub>	14	Turbidity	19	BTEX	24	EPA 608 Pest/PCB		
5	Nitrate N	10	Alkalinity	15	Conductivity	20	EPA 601/602	25	EPA 8240		
29	TCLP (Specify: volatiles, semi-volatiles, metals, pesticides, herbicides)										
30	Other (Specify):										