



State of Vermont

Department of Fish and Wildlife
Department of Forests, Parks and Recreation
Department of Environmental Conservation
State Geologist
Natural Resources Conservation Council
RELAY SERVICE FOR THE HEARING IMPAIRED
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AGENCY OF NATURAL RESOURCES
Department of Environmental Conservation
Hazardous Materials Management Division
103 South Main Street/West Office
Waterbury, Vermont 05671-0404
(802) 241-3888
FAX (802) 241-3296

August 9, 1994

Mr. Brian Tyrol
CAD Cut, Inc.
P.O. Box 856
Montpelier VT 05602

RE: Subsurface Contamination Investigation at the former Benoit/Maxham Property in Middlesex
(Site #92-1303)

Dear Mr. Tyrol:

The Sites Management Section (SMS) has received the Subsurface Contamination Investigation report for the above referenced site, dated August 1, 1994, submitted by Stone Environmental, Inc..

The recent scope of work included the sampling of five onsite monitoring wells, two drinking water wells, and a receptor assessment. MW-101, a monitoring well installed in the former UST area, contained concentrations of toluene, ethylbenzene, and xylene in excess of the State's groundwater enforcement standards. MW-3 contained trichloroethene in excess of the enforcement standards. No contamination was detected in either onsite drinking water well.

The SMS has determined that additional rounds of sampling are necessary at this site. This sampling must establish trends of decreasing concentrations in the monitoring wells with time before the site can be removed from the Active Sites List. Therefore, the SMS requests that CAD Cut, Inc., retain the services of a qualified environmental consultant to resample all of the monitoring wells, if possible, by EPA Method 8240, on bi-annual basis (twice yearly) for the period of one year. Groundwater elevations should be obtained and groundwater contour maps submitted with the analytical results after each sampling round. In addition, a brief summary report should discuss the current contaminant levels and provide conclusions and recommendations.

This site may be eligible to participate in the Petroleum Cleanup Fund (PCF), once the deductible has been met. The SMS requires that you show proof that no past or present insurance exists which would cover these costs prior to making a determination whether or not this site is eligible. Additionally, the chlorinated solvent contamination did not originate from a release from an underground storage tank, so the costs of this portion are not eligible for reimbursement. In light of the future analytical costs which will be incurred at this site, the SMS proposes that 1/2 of the analytical costs be eligible for reimbursement, to reflect the additional charges associated with the 8240 analysis due to chlorinated solvents being a concern. Please have your consultant break out these costs on future invoices to avoid confusion when you submit for reimbursement from the PCF.

August 1, 1994

Managing the Environment through Science

Mr. Matt Germon, Environmental Engineer
Agency of Natural Resources
Hazardous Materials Management Division
103 South Main Street / West Building
Waterbury, VT 05671-0404

HAZARDOUS MATERIALS
MANAGEMENT DIVISION
AUG 4 10 37 AM '94

STONE ENVIRONMENTAL INC

58 East State Street Phone / 802. 229.4541
Montpelier, Vermont Fax / 802. 229.5417
05602

RE: Subsurface Contamination Investigation at Benoit/Maxham Property, Middlesex, Vermont
(DEC Site #92-1303) (SEI Project #94-546)

Dear Mr. Germon,

On behalf of Mr. Brian Tyrol of CAD Cut, Inc. in Middlesex, Stone Environmental, Inc. (SEI) is pleased to present the following report on a subsurface investigation at the above referenced property in Middlesex.

*NO, there were 6 MWs!
(mw 8/98
(MW-5 was dry/dedicated well + MW-6 was shallow w/ trace of TCE)
and Benz - 15.8ppb and other BTEX*

This investigation was requested by the Sites Management Section (SMS) in response to an Environmental Site Assessment (ESA) performed at the Benoit/Maxham property as part of financing requirements for a real estate transaction. Four shallow groundwater monitoring wells (MW-1, MW-2, MW-3, MW-4) were installed as part of the ESA. Subsequent sampling and analyses of these wells led to the installation and sampling of four deeper groundwater monitoring wells (MW-101, MW-102, MW-103, MW-103) that penetrated into the sand and gravel aquifer located approximately 18 - 29 feet below surface grade (bsg). Well locations are shown on Figure 2 of this correspondence. The wells were used to identify contamination caused by two 10,000 gallon gasoline USTs and drums containing chlorinated solvents. In light of this, the Vermont Hazardous Materials Management Division (HMMD) determined that further investigation was needed.

Site information obtained from the previous investigations includes the following:

- ▶ Soils beneath the site consist of topsoil or gravel fill over medium red brown silt and very fine sand to a depth of approximately 4-6 feet below surface grade (bsg). Beneath this silty sand horizon are medium to coarse sands and gravels to a depth of at least 18 feet bsg.
- ▶ Bedrock was encountered as shallow as 20.5 feet bsg, and groundwater was generally

Report - DEC Site #92-1303

encountered a few feet above the bedrock surface.

- ▶ MW-101 and MW-103 both had concentrations of gasoline constituents above the State of Vermont Groundwater Enforcement Standard (GES). MW-104 exhibited no detections, and MW-102 was not referenced in the reports.
- ▶ MW-2 had concentrations of trichloroethylene (TCE) slightly above the GES, while MW-6 showed gasoline constituents above the GES.
- ▶ The direction of groundwater flow appeared to be to the south.

2.0 SCOPE OF SERVICES

2.1 Groundwater Sampling and Analyses

On June 29 and 30, 1994, SEI performed a round of groundwater sampling at the site. Groundwater monitoring wells and water supply wells were both sampled and analyzed using EPA Method 8240 by the State of Vermont Environmental Laboratory in Waterbury.

The monitoring wells were sampled on June 29 and 30, 1994 by SEI per Standard Operating Procedure (SOP) # SEI-6.7.1. The wells were sampled with disposable bailers dedicated to each well except for MW-3, a 1.5 inch well, which was sampled with a 1 inch clear teflon bailer. There were a total of only five monitoring wells sampled (MW-101, MW-102, MW-103, MW-104 and MW-3), as three of the wells (MW-1, 2 and 4) were dry. The Benoit/Maxham domestic well and the Thayer well (see Figure 2) were also sampled. The samples collected June 29 were refrigerated overnight and delivered with the June 30 samples to the State of Vermont Environmental Laboratory in Waterbury on June 30 for analyses using EPA Method 8240. Only MW-101 and MW-3 showed contamination above detection limits. The results of the analyses are tabulated below; a copy of the laboratory results are included as Attachment 1.

*Why weren't MW-5 and MW-6 sampled?
8/98*

| Well I.D. | Benzene | Toluene | Ethylbenzenes | Xylenes | TCE |
|-----------|---------|-----------|---------------|-----------|--------|
| MW-101 | N.D. | 4800 ppb | 1500 ppb | 14750 ppb | N.D. |
| MW-3 | N.D. | N.D. | N.D. | N.D. | 80 ppb |
| GES | 5.0 ppb | 2,420 ppb | 680 ppb | 400 ppb | 5 ppb |

* All other 8240 parameters in all sampled wells were non-detect (N.D.)

Water table elevations were also recorded in all monitoring wells on June 29 per SOP #SEI-003. The elevations were incorporated with the monitoring well elevations in the development of water table

elevation contours, which are included as Figure 3.

2.2 Sensitive Receptor Investigation

SEI performed a review of domestic well logs located in the vicinity of the Benoit/Maxham site on June 30, 1994 at the Water Supply Division in Waterbury. Water sources in the vicinity of the site were also identified on maps and in the field. Locations of all sensitive receptors are plotted on Figure 4.

There are two water supply wells at the Benoit/Maxham site. One was drilled in 1980 when the property was owned by Jan-Car Corporation. The log for this well was on file at the Water Supply Division, and is included as Attachment 2. According to the log, the well was drilled to 265 feet, and there is a clay layer that is present from 10 feet to 21 feet bsg. This clay is underlain by what is referred to as "soft green shale" (21 feet to 265 feet bsg), which in all likelihood is probably either a schist or phyllite belonging to the Moretown Member of the Mississquoi Formation (Generalized Geologic Map of Vermont, Vermont Geological Survey). A new well was drilled in the summer of 1993 as the original well had dried up, according to Brian Tyrol of CADCut. The log for this well was not found at the Water Supply Division.

3.0 DISCUSSION / CONCLUSIONS

The calculated groundwater flow direction as measured on June 29, 1994 is approximately west (see Figure 3). The gradient was determined to be 1%.

MW-101 was the only well that showed any levels of gasoline compounds. However, they were well above the GES (see Table 1). Chlorinated compounds were absent in all wells except MW-3, which showed a level of 80 ppb TCE.

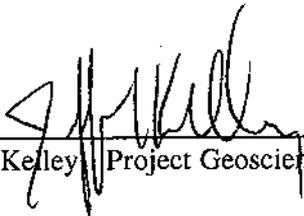
The absence of contamination in all but MW-101 and MW-3 suggests that the contamination associated with the removed USTs, as well as other potential contamination identified during previous work at the site has not migrated substantially. The Benoit/Maxham and Thayer supply wells are free of gasoline and chlorinated compounds.

However, as there are high levels of gasoline compounds in MW-101, and an on-site supply well only 45 feet away that may be exposed to downward contaminant migration, we recommend annual sampling of the water supply well to monitor any movement of the contamination into the producing aquifer.

If you have any questions regarding this report, please do not hesitate to call. We are looking forward to working with you.

Sincerely,

STONE ENVIRONMENTAL INC



Jeff Kelley, Project Geoscientist

Attachments:

- Figure 1: Site Location Map
- Figure 2: Site Map
- Table 1: Summation of Laboratory Results
- Attachment 1: Laboratory Results
- Attachment 2: Supply Well Log

cc: Brian Tyrol, CAD Cut, Inc.

Reviewed By: *CS*
g:\proj\94-546\invest\report.wpd August 1, 1994

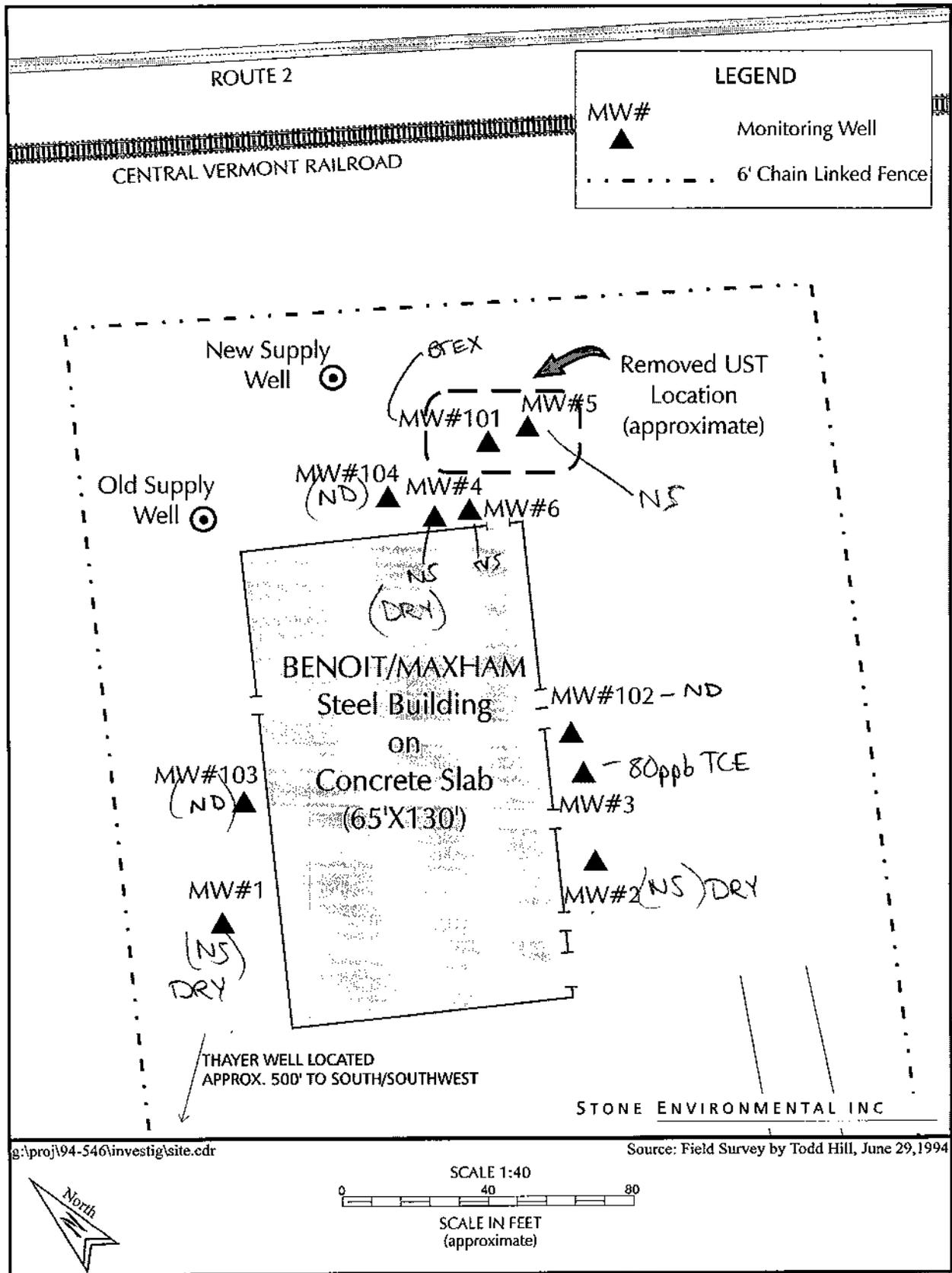


FIGURE 2
SITE MAP
Benoit/Maxham, Middlesex, Vermont

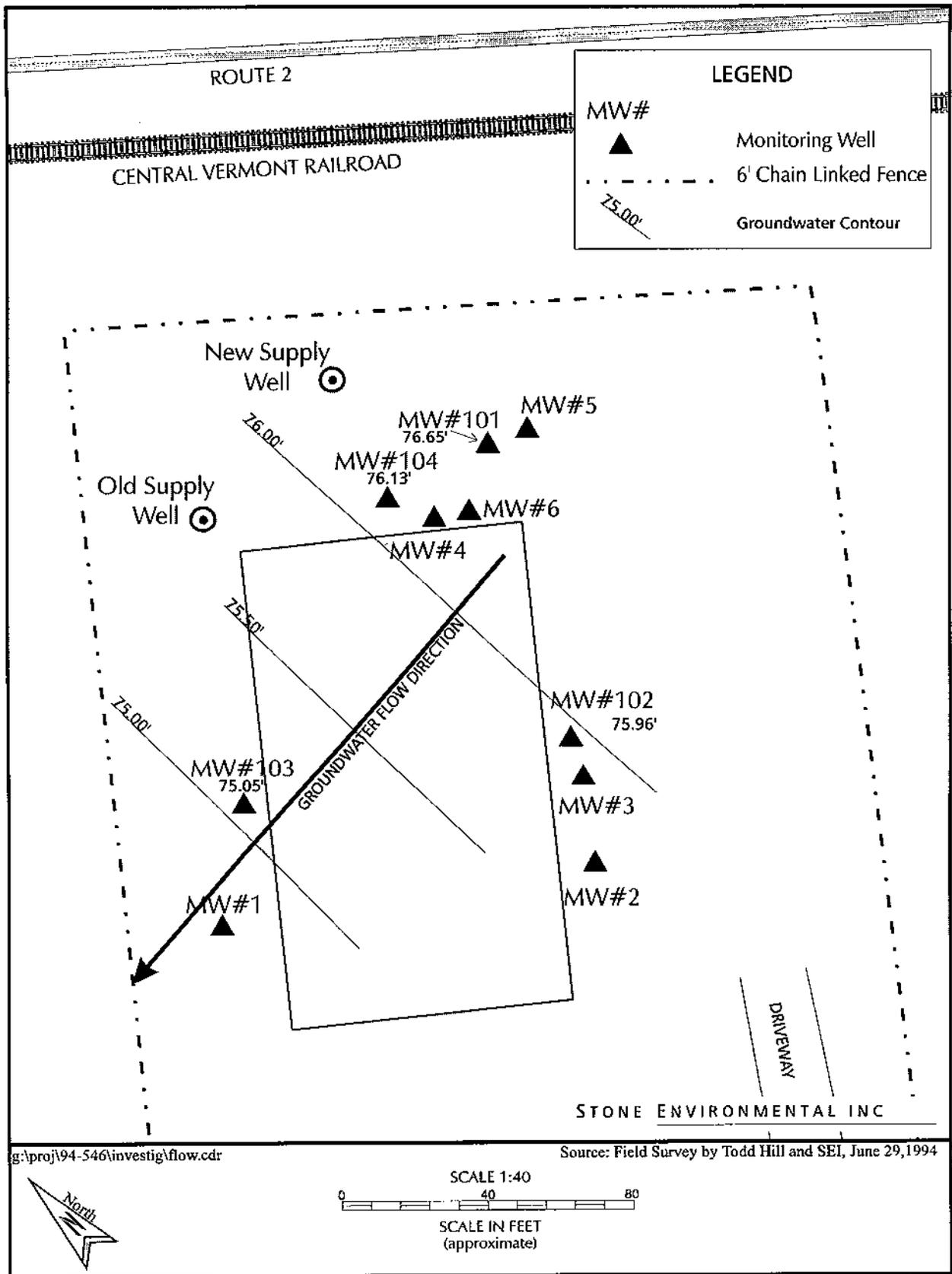
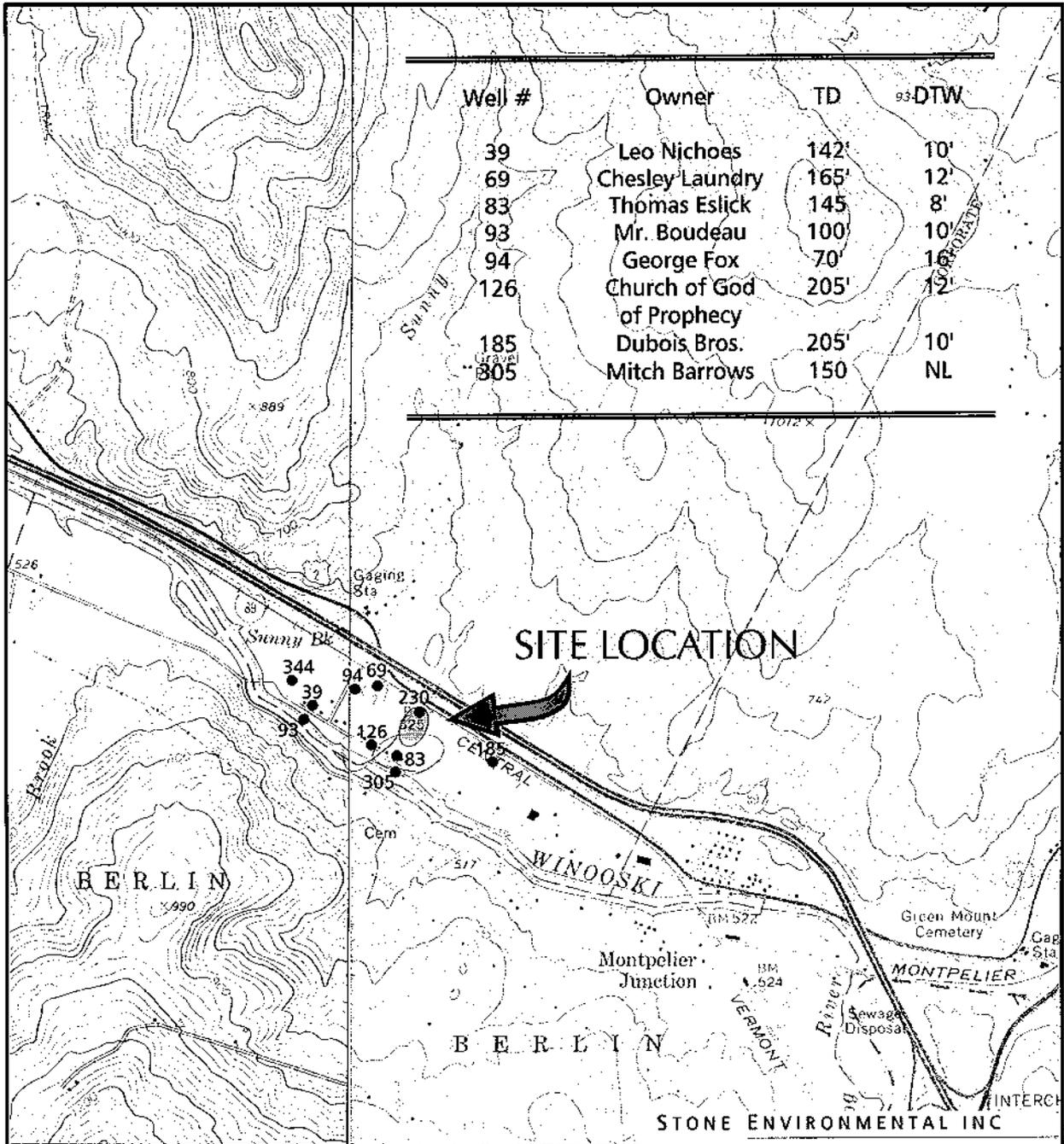


FIGURE 3
GROUNDWATER CONTOUR MAP
Benoit/Maxham, Middlesex, Vermont



g:\proj\94-546\investig\arealog.cdr

Source: Middlesex, Vermont Quadrangle, 7.5 Minute Series USGS, 1968;
Montpelier, Vermont Quadrangle, 7.5 Minute Series USGS, 1968

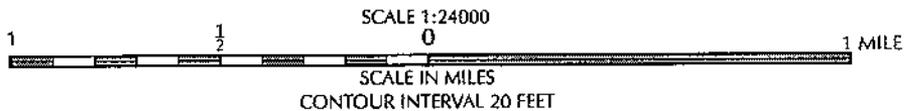


FIGURE 4
RECEPTOR LOCATION MAP
Benoit/Maxham, Middlesex, Vermont

7/20/94

Department of Environmental Conservation Laboratory
Method 8240 - Volatile Organics in Water

SRL

Lab Id: 8995 Report To: Jeff Kelley
Location: MW-101

Phone: 229-4541 Date Collected: 6/29/94
Program: 41 1303 Chain of Custody? No

Notes:

Date Analyzed: 7/08/94 Over hold? No Dilution factor: 50

| Parameter | Units are ug/l | | Remark Code | Rel % Diff. | Spiked Dups ? | Percent Recovery |
|-----------------------------|----------------|--------|-------------|-------------|---------------|------------------|
| | PQL | Result | | | | |
| Vinyl chloride | 500 | N.D. | | | | |
| Chloromethane | 500 | N.D. | | | | |
| Bromomethane | 500 | N.D. | | | | |
| Chloroethane | 500 | N.D. | | | | |
| Trichlorofluoromethane | 500 | N.D. | | | | |
| Acetone | 5000 | N.D. | | | | |
| 1,1-Dichloroethene | 250 | N.D. | | | | |
| Carbon disulfide | 5000 | N.D. | | | | |
| Methylene chloride | 250 | N.D. | | | | |
| Methyl-t-butylether (MTBE) | 500 | N.D. | | | | |
| 1,2-Dichloroethene | 250 | N.D. | | | | |
| 1,1-Dichloroethane | 250 | N.D. | | | | |
| Vinyl acetate | 2500 | N.D. | | | | |
| 2-Butanone | 5000 | N.D. | | | | |
| Chloroform | 250 | N.D. | | | | |
| 1,1,1-Trichloroethane | 250 | N.D. | | | | |
| Carbon tetrachloride | 250 | N.D. | | | | |
| Benzene | 250 | N.D. | | | | |
| 1,2-Dichloroethane | 250 | N.D. | | | | |
| Trichloroethene | 250 | N.D. | | | | |
| 1,2-Dichloropropane | 250 | N.D. | | | | |
| Bromodichloromethane | 250 | N.D. | | | | |
| 4-Methyl-2-pentanone | 2500 | N.D. | | | | |
| cis-1,2-Dichloropropene | 250 | N.D. | | | | |
| Toluene | 250 | 4800 | | | | |
| trans-1,3-Dichloropropene | 250 | N.D. | | | | |
| 1,1,2-Trichloroethane | 250 | N.D. | | | | |
| 2-Hexanone | 2500 | N.D. | | | | |
| Tetrachloroethene | 250 | N.D. | | | | |
| Dibromochloromethane | 250 | N.D. | | | | |
| Chlorobenzene | 250 | N.D. | | | | |
| Ethylbenzene | 250 | 1500 | | | | |
| Xylenes | 250 | 14750 | O | | | |
| Styrene | 250 | N.D. | | | | |
| Bromoform | 250 | N.D. | | | | |
| 1,1,2,2-Tetrachloroethane | 250 | N.D. | | | | |
| Total Volatile Hydrocarbons | 5000 | 210000 | E | | | |

Surrogate Percent Recoveries (S=Surrogate recovery out of range)

1,2-Dichloroethane-D4 104% D8-Toluene 104% 4-Bromofluorobenzene . 122%

Notes: Capillary column used with EPA approval.

Remarks: E=Estimated Value J=Value may be in Error O=Value outside Standard Curve

7/20/94

Department of Environmental Conservation Laboratory
Method 8240 - Volatile Organics in Water

SRL

Lab Id: 8996 Report To: Jeff Kelley
Location: MW-102

Phone: 229-4541 Date Collected: 6/29/94
Program: 41 1303 Chain of Custody? No

Notes:

Date Analyzed: 7/08/94 Over hold? No Dilution factor: 1

| Parameter | Units are ug/l | | Remark Code | Rel % Diff. | Spiked Dups ? | Percent Recovery |
|-----------------------------|----------------|--------|-------------|-------------|---------------|------------------|
| | PQL | Result | | | | |
| Vinyl chloride | 10 | N.D. | | | | |
| Chloromethane | 10 | N.D. | | | | |
| Bromomethane | 10 | N.D. | | | | |
| Chloroethane | 10 | N.D. | | | | |
| Trichlorofluoromethane | 10 | N.D. | | | | |
| Acetone | 100 | N.D. | | | | |
| 1,1-Dichloroethene | 5 | N.D. | | | | |
| Carbon disulfide | 100 | N.D. | | | | |
| Methylene chloride | 5 | N.D. | | | | |
| Methyl-t-butylether (MTBE) | 10 | N.D. | | | | |
| 1,2-Dichloroethene | 5 | N.D. | | | | |
| 1,1-Dichloroethane | 5 | N.D. | | | | |
| Vinyl acetate | 50 | N.D. | | | | |
| 2-Butanone | 100 | N.D. | | | | |
| Chloroform | 5 | N.D. | | | | |
| 1,1,1-Trichloroethane | 5 | N.D. | | | | |
| Carbon tetrachloride | 5 | N.D. | | | | |
| Benzene | 5 | N.D. | | | | |
| 1,2-Dichloroethane | 5 | N.D. | | | | |
| Trichloroethene | 5 | N.D. | | | | |
| 1,2-Dichloropropane | 5 | N.D. | | | | |
| Bromodichloromethane | 5 | N.D. | | | | |
| 4-Methyl-2-pentanone | 50 | N.D. | | | | |
| cis-1,2-Dichloropropene | 5 | N.D. | | | | |
| Toluene | 5 | N.D. | | | | |
| trans-1,3-Dichloropropene | 5 | N.D. | | | | |
| 1,1,2-Trichloroethane | 5 | N.D. | | | | |
| 2-Hexanone | 50 | N.D. | | | | |
| Tetrachloroethene | 5 | N.D. | | | | |
| Dibromochloromethane | 5 | N.D. | | | | |
| Chlorobenzene | 5 | N.D. | | | | |
| Ethylbenzene | 5 | N.D. | | | | |
| Xylenes | 5 | N.D. | | | | |
| Styrene | 5 | N.D. | | | | |
| Bromoform | 5 | N.D. | | | | |
| 1,1,2,2-Tetrachloroethane | 5 | N.D. | | | | |
| Total Volatile Hydrocarbons | 100 | N.D. | | | | |

Surrogate Percent Recoveries (S=Surrogate recovery out of range)

1,2-Dichloroethane-D4 104% D8-Toluene 104% 4-Bromofluorobenzene . 110%

Notes: Capillary column used with EPA approval.

Remarks: E=Estimated Value J=Value may be in Error O=Value outside Standard Curve

7/20/94

Department of Environmental Conservation Laboratory
Method 8240 - Volatile Organics in Water

SRL

Lab Id: 8997 Report To: Jeff Kelley
Location: MW-103

Phone: 229-4541 Date Collected: 6/29/94
Program: 41 1303 Chain of Custody? No

Notes:

Date Analyzed: 7/08/94 Over hold? No Dilution factor: 1

| Parameter | Units are ug/l | | Remark Code | Rel % Diff. | Spiked Dups ? | Percent Recovery |
|-----------------------------|----------------|--------|----------------|----------------|------------------|---------------------|
| | PQL | Result | | | | |
| Vinyl chloride | 10 | N.D. | | | | |
| Chloromethane | 10 | N.D. | | | | |
| Bromomethane | 10 | N.D. | | | | |
| Chloroethane | 10 | N.D. | | | | |
| Trichlorofluoromethane | 10 | N.D. | | | | |
| Acetone | 100 | N.D. | | | | |
| 1,1-Dichloroethene | 5 | N.D. | | | | |
| Carbon disulfide | 100 | N.D. | | | | |
| Methylene chloride | 5 | N.D. | | | | |
| Methyl-t-butylether (MTBE) | 10 | N.D. | | | | |
| 1,2-Dichloroethene | 5 | N.D. | | | | |
| 1,1-Dichloroethane | 5 | N.D. | | | | |
| Vinyl acetate | 50 | N.D. | | | | |
| 2-Butanone | 100 | N.D. | | | | |
| Chloroform | 5 | N.D. | | | | |
| 1,1,1-Trichloroethane | 5 | N.D. | | | | |
| Carbon tetrachloride | 5 | N.D. | | | | |
| Benzene | 5 | N.D. | | | | |
| 1,2-Dichloroethane | 5 | N.D. | | | | |
| Trichloroethene | 5 | N.D. | | | | |
| 1,2-Dichloropropane | 5 | N.D. | | | | |
| Bromodichloromethane | 5 | N.D. | | | | |
| 4-Methyl-2-pentanone | 50 | N.D. | | | | |
| cis-1,2-Dichloropropene | 5 | N.D. | | | | |
| Toluene | 5 | N.D. | | | | |
| trans-1,3-Dichloropropene | 5 | N.D. | | | | |
| 1,1,2-Trichloroethane | 5 | N.D. | | | | |
| 2-Hexanone | 50 | N.D. | | | | |
| Tetrachloroethene | 5 | N.D. | | | | |
| Dibromochloromethane | 5 | N.D. | | | | |
| Chlorobenzene | 5 | N.D. | | | | |
| Ethylbenzene | 5 | N.D. | | | | |
| Xylenes | 5 | N.D. | | | | |
| Styrene | 5 | N.D. | | | | |
| Bromoform | 5 | N.D. | | | | |
| 1,1,2,2-Tetrachloroethane | 5 | N.D. | | | | |
| Total Volatile Hydrocarbons | 100 | N.D. | | | | |

Surrogate Percent Recoveries (S=Surrogate recovery out of range)

1,2-Dichloroethane-D4 102% D8-Toluene 104% 4-Bromofluorobenzene . 110%

Notes: Capillary column used with EPA approval.

Remarks: E=Estimated Value J=Value may be in Error O=Value outside Standard Curve

7/20/94

Department of Environmental Conservation Laboratory
Method 8240 - Volatile Organics in Water

SRL

Lab Id: 8998 Report To: Jeff Kelley
Location: MW-104

Phone: 229-4541 Date Collected: 6/29/94
Program: 41 1303 Chain of Custody? No

Notes:

Date Analyzed: 7/08/94 Over hold? No Dilution factor: 1

| Parameter | Units are ug/l | | Remark Code | Rel % Diff. | Spiked Dups ? | Percent Recovery |
|-----------------------------|----------------|--------|-------------|-------------|---------------|------------------|
| | PQL | Result | | | | |
| Vinyl chloride | 10 | N.D. | | | | |
| Chloromethane | 10 | N.D. | | | | |
| Bromomethane | 10 | N.D. | | | | |
| Chloroethane | 10 | N.D. | | | | |
| Trichlorofluoromethane | 10 | N.D. | | | | |
| Acetone | 100 | N.D. | | | | |
| 1,1-Dichloroethene | 5 | N.D. | | | | |
| Carbon disulfide | 100 | N.D. | | | | |
| Methylene chloride | 5 | N.D. | | | | |
| Methyl-t-butylether (MTBE) | 10 | N.D. | | | | |
| 1,2-Dichloroethene | 5 | N.D. | | | | |
| 1,1-Dichloroethane | 5 | N.D. | | | | |
| Vinyl acetate | 50 | N.D. | | | | |
| 2-Butanone | 100 | N.D. | | | | |
| Chloroform | 5 | N.D. | | | | |
| 1,1,1-Trichloroethane | 5 | N.D. | | | | |
| Carbon tetrachloride | 5 | N.D. | | | | |
| Benzene | 5 | N.D. | | | | |
| 1,2-Dichloroethane | 5 | N.D. | | | | |
| Trichloroethene | 5 | N.D. | | | | |
| 1,2-Dichloropropane | 5 | N.D. | | | | |
| Bromodichloromethane | 5 | N.D. | | | | |
| 4-Methyl-2-pentanone | 50 | N.D. | | | | |
| cis-1,2-Dichloropropene | 5 | N.D. | | | | |
| Toluene | 5 | N.D. | | | | |
| trans-1,3-Dichloropropene | 5 | N.D. | | | | |
| 1,1,2-Trichloroethane | 5 | N.D. | | | | |
| 2-Hexanone | 50 | N.D. | | | | |
| Tetrachloroethene | 5 | N.D. | | | | |
| Dibromochloromethane | 5 | N.D. | | | | |
| Chlorobenzene | 5 | N.D. | | | | |
| Ethylbenzene | 5 | N.D. | | | | |
| Xylenes | 5 | N.D. | | | | |
| Styrene | 5 | N.D. | | | | |
| Bromoform | 5 | N.D. | | | | |
| 1,1,2,2-Tetrachloroethane | 5 | N.D. | | | | |
| Total Volatile Hydrocarbons | 100 | N.D. | | | | |

Surrogate Percent Recoveries (S=Surrogate recovery out of range)

1,2-Dichloroethane-D4 102% D8-Toluene 104% 4-Bromofluorobenzene . 108%

Notes: Capillary column used with EPA approval.

Remarks: E=Estimated Value J=Value may be in Error O=Value outside Standard Curve

7/20/94

Department of Environmental Conservation Laboratory
Method 8240 - Volatile Organics in Water

SRL

Lab Id: 8999 Report To: Jeff Kelley
Location: MW-3

Phone: 229-4541 Date Collected: 6/29/94
Program: 41 1303 Chain of Custody? No

Notes:

Date Analyzed: 7/08/94 Over hold? No Dilution factor: 1

| Parameter | Units are ug/l | | Remark Code | Rel % Diff. | Spiked Dups ? | Percent Recovery |
|-----------------------------|----------------|--------|----------------|----------------|------------------|---------------------|
| | PQL | Result | | | | |
| Vinyl chloride | 10 | N.D. | | | | |
| Chloromethane | 10 | N.D. | | | | |
| Bromomethane | 10 | N.D. | | | | |
| Chloroethane | 10 | N.D. | | | | |
| Trichlorofluoromethane | 10 | N.D. | | | | |
| Acetone | 100 | N.D. | | | | |
| 1,1-Dichloroethene | 5 | N.D. | | | | |
| Carbon disulfide | 100 | N.D. | | | | |
| Methylene chloride | 5 | N.D. | | | | |
| Methyl-t-butylether (MTBE) | 10 | N.D. | | | | |
| 1,2-Dichloroethene | 5 | N.D. | | | | |
| 1,1-Dichloroethane | 5 | N.D. | | | | |
| Vinyl acetate | 50 | N.D. | | | | |
| 2-Butanone | 100 | N.D. | | | | |
| Chloroform | 5 | N.D. | | | | |
| 1,1,1-Trichloroethane | 5 | N.D. | | | | |
| Carbon tetrachloride | 5 | N.D. | | | | |
| Benzene | 5 | N.D. | | | | |
| 1,2-Dichloroethane | 5 | N.D. | | | | |
| Trichloroethene | 5 | 80 | | | | |
| 1,2-Dichloropropane | 5 | N.D. | | | | |
| Bromodichloromethane | 5 | N.D. | | | | |
| 4-Methyl-2-pentanone | 50 | N.D. | | | | |
| cis-1,2-Dichloropropene | 5 | N.D. | | | | |
| Toluene | 5 | N.D. | | | | |
| trans-1,3-Dichloropropene | 5 | N.D. | | | | |
| 1,1,2-Trichloroethane | 5 | N.D. | | | | |
| 2-Hexanone | 50 | N.D. | | | | |
| Tetrachloroethene | 5 | N.D. | | | | |
| Dibromochloromethane | 5 | N.D. | | | | |
| Chlorobenzene | 5 | N.D. | | | | |
| Ethylbenzene | 5 | N.D. | | | | |
| Xylenes | 5 | N.D. | | | | |
| Styrene | 5 | N.D. | | | | |
| Bromoform | 5 | N.D. | | | | |
| 1,1,2,2-Tetrachloroethane | 5 | N.D. | | | | |
| Total Volatile Hydrocarbons | 100 | N.D. | | | | |

Surrogate Percent Recoveries (S=Surrogate recovery out of range)

1,2-Dichloroethane-D4 104% D8-Toluene 106% 4-Bromofluorobenzene . 110%

Notes: Capillary column used with EPA approval.

Remarks: E=Estimated Value J=Value may be in Error O=Value outside Standard Curve

7/20/94

Department of Environmental Conservation Laboratory
Method 8240 - Volatile Organics in Water

SRL

Lab Id: 9001 Report To: Jeff Kelley
Location: Thayer Well

Phone: 229-4541 Date Collected: 6/29/94
Program: 41 1303 Chain of Custody? No

Notes:

Date Analyzed: 7/08/94 Over hold? No Dilution factor: 1

| Parameter | Units are ug/l | | Remark Code | Rel % Diff. | Spiked Dups ? | Percent Recovery |
|-----------------------------|----------------|--------|-------------|-------------|---------------|------------------|
| | PQL | Result | | | | |
| Vinyl chloride | 10 | N.D. | | | | |
| Chloromethane | 10 | N.D. | | | | |
| Bromomethane | 10 | N.D. | | | | |
| Chloroethane | 10 | N.D. | | | | |
| Trichlorofluoromethane | 10 | N.D. | | | | |
| Acetone | 100 | N.D. | | | | |
| 1,1-Dichloroethene | 5 | N.D. | | | | |
| Carbon disulfide | 100 | N.D. | | | | |
| Methylene chloride | 5 | N.D. | | | | |
| Methyl-t-butylether (MTBE) | 10 | N.D. | | | | |
| 1,2-Dichloroethene | 5 | N.D. | | | | |
| 1,1-Dichloroethane | 5 | N.D. | | | | |
| Vinyl acetate | 50 | N.D. | | | | |
| 2-Butanone | 100 | N.D. | | | | |
| Chloroform | 5 | N.D. | | | | |
| 1,1,1-Trichloroethane | 5 | N.D. | | | | |
| Carbon tetrachloride | 5 | N.D. | | | | |
| Benzene | 5 | N.D. | | | | |
| 1,2-Dichloroethane | 5 | N.D. | | | | |
| Trichloroethene | 5 | N.D. | | | | |
| 1,2-Dichloropropane | 5 | N.D. | | | | |
| Bromodichloromethane | 5 | N.D. | | | | |
| 4-Methyl-2-pentanone | 50 | N.D. | | | | |
| cis-1,2-Dichloropropene | 5 | N.D. | | | | |
| Toluene | 5 | N.D. | | | | |
| trans-1,3-Dichloropropene | 5 | N.D. | | | | |
| 1,1,2-Trichloroethane | 5 | N.D. | | | | |
| 2-Hexanone | 50 | N.D. | | | | |
| Tetrachloroethene | 5 | N.D. | | | | |
| Dibromochloromethane | 5 | N.D. | | | | |
| Chlorobenzene | 5 | N.D. | | | | |
| Ethylbenzene | 5 | N.D. | | | | |
| Xylenes | 5 | N.D. | | | | |
| Styrene | 5 | N.D. | | | | |
| Bromoform | 5 | N.D. | | | | |
| 1,1,2,2-Tetrachloroethane | 5 | N.D. | | | | |
| Total Volatile Hydrocarbons | 100 | N.D. | | | | |

Surrogate Percent Recoveries (S=Surrogate recovery out of range)

1,2-Dichloroethane-D4 104% D8-Toluene 106% 4-Bromofluorobenzene . 110%

Notes: Capillary column used with EPA approval.

Remarks: E=Estimated Value J=Value may be in Error O=Value outside Standard Curve

7/20/94

Department of Environmental Conservation Laboratory
Method 8240 - Volatile Organics in Water

SRL

Lab Id: 9000 Report To: Jeff Kelley
Location: Ben/Max Well

Phone: 229-4541 Date Collected: 6/29/94
Program: 41 1303 Chain of Custody? No

Notes:

Date Analyzed: 7/08/94 Over hold? No Dilution factor: 1

| Parameter | Units are ug/l | | Remark Code | Rel % Diff. | Spiked Dups ? | Percent Recovery |
|-----------------------------|----------------|--------|-------------|-------------|---------------|------------------|
| | PQL | Result | | | | |
| Vinyl chloride | 10 | N.D. | | | | |
| Chloromethane | 10 | N.D. | | | | |
| Bromomethane | 10 | N.D. | | | | |
| Chloroethane | 10 | N.D. | | | | |
| Trichlorofluoromethane | 10 | N.D. | | | | |
| Acetone | 100 | N.D. | | | | |
| 1,1-Dichloroethene | 5 | N.D. | | | | |
| Carbon disulfide | 100 | N.D. | | | | |
| Methylene chloride | 5 | N.D. | | | | |
| Methyl-t-butylether (MTBE) | 10 | N.D. | | | | |
| 1,2-Dichloroethene | 5 | N.D. | | | | |
| 1,1-Dichloroethane | 5 | N.D. | | | | |
| Vinyl acetate | 50 | N.D. | | | | |
| 2-Butanone | 100 | N.D. | | | | |
| Chloroform | 5 | N.D. | | | | |
| 1,1,1-Trichloroethane | 5 | N.D. | | | | |
| Carbon tetrachloride | 5 | N.D. | | | | |
| Benzene | 5 | N.D. | | | | |
| 1,2-Dichloroethane | 5 | N.D. | | | | |
| Trichloroethene | 5 | N.D. | | | | |
| 1,2-Dichloropropane | 5 | N.D. | | | | |
| Bromodichloromethane | 5 | N.D. | | | | |
| 4-Methyl-2-pentanone | 50 | N.D. | | | | |
| cis-1,2-Dichloropropene | 5 | N.D. | | | | |
| Toluene | 5 | N.D. | | | | |
| trans-1,3-Dichloropropene | 5 | N.D. | | | | |
| 1,1,2-Trichloroethane | 5 | N.D. | | | | |
| 2-Hexanone | 50 | N.D. | | | | |
| Tetrachloroethene | 5 | N.D. | | | | |
| Dibromochloromethane | 5 | N.D. | | | | |
| Chlorobenzene | 5 | N.D. | | | | |
| Ethylbenzene | 5 | N.D. | | | | |
| Xylenes | 5 | N.D. | | | | |
| Styrene | 5 | N.D. | | | | |
| Bromoform | 5 | N.D. | | | | |
| 1,1,2,2-Tetrachloroethane | 5 | N.D. | | | | |
| Total Volatile Hydrocarbons | 100 | N.D. | | | | |

Surrogate Percent Recoveries (S=Surrogate recovery out of range)

1,2-Dichloroethane-D4 106% D8-Toluene 106% 4-Bromofluorobenzene . 110%

Notes: Capillary column used with EPA approval.

Remarks: E=Estimated Value J=Value may be in Error O=Value outside Standard Curve

7/20/94

Department of Environmental Conservation Laboratory
Method 8240 - Volatile Organics in Water

SRL

Lab Id: 9002 Report To: Jeff Kelley

Phone: 229-4541 Date Collected: 6/29/94

Location: TB

Program: 41 1303 Chain of Custody? No

Notes:

Date Analyzed: 7/08/93 Over hold? No Dilution factor: 1

| Parameter | Units are ug/l | | Remark Code | Rel % Diff. | Spiked Dups ? | Percent Recovery |
|-----------------------------|----------------|--------|-------------|-------------|---------------|------------------|
| | PQL | Result | | | | |
| Vinyl chloride | 10 | N.D. | | | | |
| Chloromethane | 10 | N.D. | | | | |
| Bromomethane | 10 | N.D. | | | | |
| Chloroethane | 10 | N.D. | | | | |
| Trichlorofluoromethane | 10 | N.D. | | | | |
| Acetone | 100 | N.D. | | | | |
| 1,1-Dichloroethene | 5 | N.D. | | | | |
| Carbon disulfide | 100 | N.D. | | | | |
| Methylene chloride | 5 | N.D. | | | | |
| Methyl-t-butylether (MTBE) | 10 | N.D. | | | | |
| 1,2-Dichloroethene | 5 | N.D. | | | | |
| 1,1-Dichloroethane | 5 | N.D. | | | | |
| Vinyl acetate | 50 | N.D. | | | | |
| 2-Butanone | 100 | N.D. | | | | |
| Chloroform | 5 | N.D. | | | | |
| 1,1,1-Trichloroethane | 5 | N.D. | | | | |
| Carbon tetrachloride | 5 | N.D. | | | | |
| Benzene | 5 | N.D. | | | | |
| 1,2-Dichloroethane | 5 | N.D. | | | | |
| Trichloroethene | 5 | N.D. | | | | |
| 1,2-Dichloropropane | 5 | N.D. | | | | |
| Bromodichloromethane | 5 | N.D. | | | | |
| 4-Methyl-2-pentanone | 50 | N.D. | | | | |
| cis-1,2-Dichloropropene | 5 | N.D. | | | | |
| Toluene | 5 | N.D. | | | | |
| trans-1,3-Dichloropropene | 5 | N.D. | | | | |
| 1,1,2-Trichloroethane | 5 | N.D. | | | | |
| 2-Hexanone | 50 | N.D. | | | | |
| Tetrachloroethene | 5 | N.D. | | | | |
| Dibromochloromethane | 5 | N.D. | | | | |
| Chlorobenzene | 5 | N.D. | | | | |
| Ethylbenzene | 5 | N.D. | | | | |
| Xylenes | 5 | N.D. | | | | |
| Styrene | 5 | N.D. | | | | |
| Bromoform | 5 | N.D. | | | | |
| 1,1,2,2-Tetrachloroethane | 5 | N.D. | | | | |
| Total Volatile Hydrocarbons | 100 | N.D. | | | | |

Surrogate Percent Recoveries (S=Surrogate recovery out of range)

1,2-Dichloroethane-D4 100% D8-Toluene 106% 4-Bromofluorobenzene . 110%

Notes: Capillary column used with EPA approval.

Remarks: E=Estimated Value J=Value may be in Error O=Value outside Standard Curve

RECEIVED

49

AUG 06 1992

WELL NUMBER

724

Location map attached to log 227 3303

Form WR-59
Rev. 7.22

Wagner, Heindel and Noyes, Inc. State of Vermont

DEPARTMENT OF WATER RESOURCES WELL COMPLETION REPORT

This report must be completed and submitted to the Department of Water Resources, State Office Building, Montpelier, Vermont 05602, no later than 60 days after completion of well, complete or line out all blanks.

DO NOT FILL IN

230

MAR 19 1981

WELL OWNER: Jan. Car. Corp. Name Middlesex Ut. Mailing Address

TOWN IN WHICH WELL IS LOCATED: Middlesex Ut.

DATE WELL WAS COMPLETED: 11-26-80 (Please locate well on a large scale map to accompany this report. Maps are available on request.)

PROPOSED USE OF WELL:
 Domestic Agricultural Business Establishment
 Municipal Industrial Other (Specify)

DILLING EQUIPMENT:
 Cable Tool Rotary Air Percussion
 Other (Specify)

TOTAL DEPTH OF WELL: 265

DRILLING DETAILS: Length 31 ft. Diameter 4 in. Material STEEL
Weight 15 lb./ft.

SCREEN DETAILS: Make _____ Material _____ Diameter _____ in. Slot Size _____ Length _____ ft.

METHOD OF SEALING CASING TO SCREEN OR BEDROCK: Drilling mud 8 3/4" Hole 10'

WATER YIELD TEST: Bailed, or Pumped, or Compressed Air
1 Hours at 3 gallons per minute

Water level during yield test: _____

WELL LOG

Give description of formations penetrated, such as: peat, silt, sand, gravel, clay, hardpan, shale, limestone, granite, etc. Include size of gravel (diameter) and sand (fine, medium, coarse, color of material, structure (loose, packed, cemented, hard). For example: Surface to 27 ft. fine, packed, yellow sand; 27 ft. to 134 ft. gray granite.

Depth From _____ round Surface

_____ to 10 ft. SILT

0 to 27 ft. CLAY

1 to 265 ft. SOFT GREEN SHALE

_____ to _____ ft.

YIELD TEST DATA IN G.P.M.
If yield was tested at different depths during drilling, List Below

| | |
|----------------------------------|--------------------|
| <u>3</u> G.P.M. @ <u>250</u> ft. | G.P.M. @ _____ ft. |
| G.P.M. @ _____ ft. | G.P.M. @ _____ ft. |

ANALYSIS: Has water been analyzed? Yes No If Yes, Where _____
Include Analysis

DRILLED BY: Ray T. Lepto Jr. Signature Ray T. Lepto Jr.

FOR BUSINESS AS: Jabson Well Drilling Company
DATE OF REPORT: 11-26-80 WELL DRILLERS LICENSE NO. 125