

Heindel and Noyes

P.O. Box 64709 Burlington, Vermont 05406-4709

- Consulting Hydrogeologists
- Engineers
- Environmental Scientists

802-658-0820

Fax 802-860-1014

May 15, 1997

Andrew Shively
Waste Management Division
103 South Main Street / West Office
Waterbury, VT 05671-0404

Re: Derby Trailer Park, site #96-2077

RECEIVED
MAY 16 10 21 AM '97

Dear Andrew:

Enclosed please find the report of the subsurface investigation at the Derby Trailer Park. Heindel and Noyes has obtained another round of groundwater samples and depth measurements from the site this week. We will forward to you the results and our evaluation thereof, once we receive them from the laboratory. Please feel welcome to call Jeff Noyes or myself should you have any questions regarding this site.

Sincerely,


Ameddia Perry
Staff Scientist

AP/ap

cc: Thomas Firllet, Albank

[U:WPERRYWPDOCSIDERBY.L1]

WASTE MANAGEMENT
CORPORATION

MAY 16 10 21 AM '97

DERBY TRAILER PARK
Derby, Vermont
SUBSURFACE INVESTIGATION

Prepared by:

Heindel and Noyes

Prepared For:



May 15, 1997

**DERBY TRAILER PARK
Derby, Vermont**

SUBSURFACE INVESTIGATION

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DERBY TRAILER PARK Derby, Vermont

SUBSURFACE INVESTIGATION

1.0 INTRODUCTION

The following report summarizes the findings of Heindel and Noyes' (H&N) December 1996, and February 1997 subsurface investigations of the "garage" at the Derby Trailer Park in Derby, Vermont. The investigation involved two components: the Petroleum Clean Up Fund (PCF) reimbursable work in the vicinity of the former 550-gallon gasoline underground storage tank (UST); and the non-PCF work associated with dry well located at the garage. The investigation was preceded by a report by H&N on the removal of the UST and the investigation of the dry well and floor drains.¹ In the previous report H&N identified contamination in the former location of the UST, and in the floor drains and dry well. The subsurface investigation was performed in accordance with an SMS-approved work plan dated October 2, 1996.²

2.0 FLOOR DRAIN AND DRY WELL HAZARDOUS MATERIAL REMOVAL

On December 12, 1996 H&N oversaw the removal of contaminated materials from the two floor drains and dry well located at the garage at the Derby Trailer Park in Derby, Vermont (see Site Location Map, Appendix 1). The excavation and handling of contaminated materials was performed by Environmental Products and Services, Inc.

¹ Site Investigation Derby Trailer Park, Nelson, Heindel, and Noyes, 7/25/96. H&N Library # 3617a.

² Approval letter from Andrew Shively, 11/13/96.

Less than one yard of sandy material was removed from the floor drains. Once all contaminated material had been removed from the drains, they were sealed with concrete in accordance with the Department of Environmental Conservation's Floor Drain Procedure.

The dry well consists of a perforated concrete vault approximately six-feet square by four feet deep with a concrete base. All material within the dry well was removed during the cleaning. Approximately 15 drums, or approximately 4 yds³, of black and gray sand were removed from the dry well. No sludge was encountered. In addition to a petroleum odor, materials removed from the dry well had PID readings of 0.5 to 20 ppm. All drummed material was transported off site. A copy of the manifest is included in Appendix 2. The dry well structure was not removed.

3.0 SUBSURFACE INVESTIGATION

On December 12, 1996 H&N completed a subsurface exploration to obtain soil and groundwater data at the Derby Trailer Park garage, in Derby, Vermont. The exploration consisted of the installation of six groundwater quality monitor wells. Three additional wells (MW-7, MW-8, and MW-9) were installed on February 7, 1997. Soil samples collected during the drilling were screened for volatile organic compounds (VOCs); groundwater samples obtained from the monitor wells were submitted for laboratory analysis.

3.1 Site Geology and Hydrogeology

Soil boring logs and field notes for the nine monitor wells indicate on site soils consist of medium sands with regions of fine silty sand and gravel (Soil Logs are included in Appendix 5). Wells were installed to depths of 10 to 15 feet below ground surface (bgs). Groundwater was encountered at depths of 5.9 to 9.5 feet bgs. No bedrock was observed at any test location.

Contouring of the phreatic surface indicates there is a very low hydraulic gradient (i.e. approximately 0.2%). Groundwater elevation data and a groundwater elevation map are included in Appendix 4. Surface drainage in the area is generally to the southeast, towards Lake Derby which is approximately 1500 feet from the site.

3.2 Monitor Well Installation and Groundwater Sampling

The nine monitor wells were installed at depths from 10 to 15 feet bgs. Soil samples obtained from continuous split-spoon sampling were screened for VOCs using an HNu photionization device (PID) equipped with a 10.2 eV lamp. The results of the screening revealed slightly elevated PID readings (i.e. 0.4 to 0.8 ppm) at monitor wells MW-1 through MW-6. Wells installed to the south of the former UST (i.e. MW-7 through MW-9) had substantially higher PID readings, with a peak of 731 ppm at MW-7. The results of the soil screening are summarized in Appendix 3.

Monitor wells MW-1 to MW-6 were developed, sampled, and submitted for EPA method 602 analysis on December 19, 1996. After groundwater and surveying data were reduced, monitor wells MW-1, MW-3, MW-4, and MW-6 were sampled and submitted for EPA method 8260 and RCRA metals analyses to determine if contamination originating at the dry well had contaminated groundwater. The laboratory results are included in Appendix 2, and are summarized in Appendix 4.

Laboratory results indicate no BTEX contamination was detected in monitor wells MW-1 through MW-6. Detectable levels of MTBE were recorded in wells MW-1 and MW-6. It is possible that low levels of MTBE are also present in the wells MW-2 and MW-5 which were only tested by EPA method 602 which has a higher detection limit. No exceedances of the Groundwater Enforcement Standards³ were detected at any of the wells sampled.

Groundwater samples obtained from the monitor wells installed to the south and southeast of the former UST (MW-7, MW-8, and MW-9) had elevated contaminant levels. Monitor wells MW-7 and MW-8 are directly downgradient of the former UST, and had contaminant levels in exceedance of the Groundwater Enforcement Standard for one or more BTEX compounds. The contaminant plume does not appear to have migrated a significant distance downgradient from the source area. This is likely a result of the low hydraulic gradient, dilution and biologic attenuation of the plume.

RCRA metals analysis for wells MW-1, MW-3, MW-4, and MW-6 revealed slightly elevated levels of Arsenic at well MW-4, and slightly elevated levels of Barium at

³

Chapter 12 Vermont Groundwater Protection Rule and Strategy, 9/88.

all four wells sampled. These levels are also below Groundwater Enforcement Standards.

4.0 DISCUSSION

4.1 Former Dry Well and Floor Drains

On December 12, 1996 H&N oversaw the removal of all hazardous material from the floor drains and dry well at the garage on the subject property. The floor drains were subsequently sealed with concrete.

Laboratory results of groundwater samples obtained downgradient of the former dry well indicate groundwater in the vicinity of the drywell is not contaminated with RCRA metals or EPA method 8260 compounds, with the exception of low levels of MTBE recorded at two wells. The MTBE levels are below the Vermont Health Advisory level of 40 parts per billion (ppb).⁴

4.2 Former UST

Laboratory results of groundwater samples obtained in the vicinity of the former UST location revealed elevated MTBE levels in three of the nine monitor wells. Groundwater Enforcement Standards for one or more compounds were exceeded at monitor wells MW-7 and MW-8. These wells are downgradient of the former UST location, with MW-7 being approximately twenty feet from the former UST. These results indicate the former UST location remains a source of contamination. The downgradient extent of contamination has not been defined but based on previous experience is likely to extend more than 150' from the source area.

Based on the above, H&N recommends a confirmatory round of samples be collected in the spring from one upgradient monitor well (e.g. MW-1), and monitor wells MW-6 through MW-9. In addition, groundwater elevation data should be collected at all wells to provide a confirmation of the orientation of the phreatic surface during spring high water conditions when residual contamination in the capillary fringe is likely to be mobilized. After the spring sampling, H&N would

⁴ Vermont Health Advisory Guide, March 1996.

make additional recommendations. Based on the results of the confirmatory sampling, a corrective action plan may be developed.

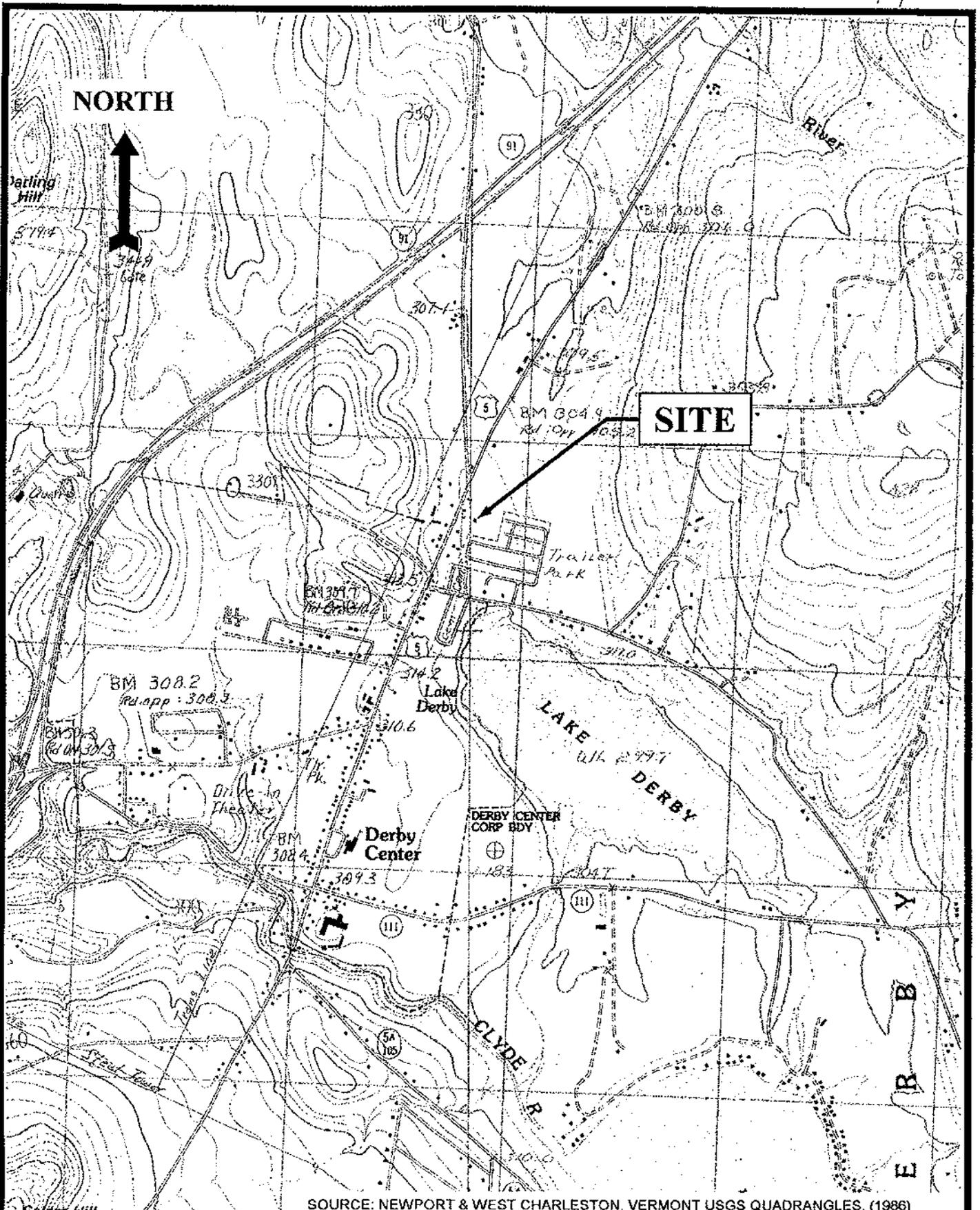
[U:\PMONK\SWP\DOCS\DERBY_TP.R3]

DERBY TRAILER PARK
Derby, Vermont

SUBSURFACE INVESTIGATION

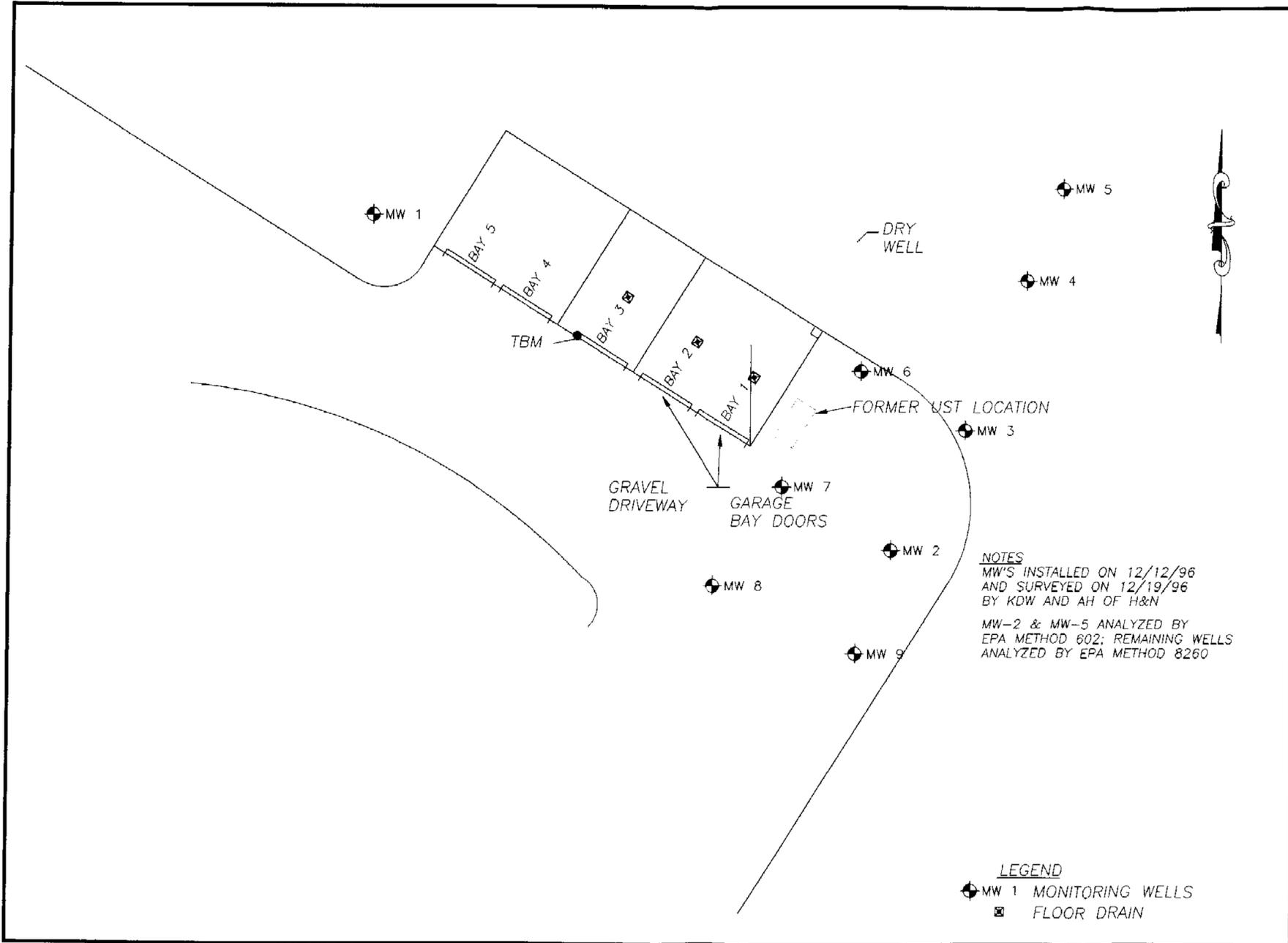
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SOURCE: NEWPORT & WEST CHARLESTON, VERMONT USGS QUADRANGLES. (1986)

<p>ALBANK DERBY TANK REMOVAL</p>		<p>DATE: SEPTEMBER 12, 1996</p>	<p>Nelson, Heindel, and Noyes</p> <ul style="list-style-type: none"> • Hydrogeology • Ecology • • Environmental Engineering • <p>CONSULTING SCIENTISTS AND ENGINEERS</p> <p>P.O. BOX 64709 BURLINGTON, VERMONT 05406-4709</p>
<p>DERBY CTR, VERMONT</p>		<p>PROJECT #: 96190</p>	
<p>SITE LOCATION MAP</p>		<p>DRAWN BY: M. Luman</p>	
<p>SCALE: 1"=2000'</p>	<p>FILE: C:\ALBANK\SITEMAP</p>	<p>PROJ. MGR: P. Monks</p>	<p>Prepared By: Information & Visualization Services</p>
		<p>APPROVED BY: J. Noyes</p>	



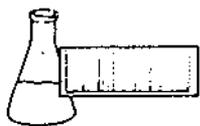
NOTES
 MW'S INSTALLED ON 12/12/96
 AND SURVEYED ON 12/19/96
 BY KDW AND AH OF H&N
 MW-2 & MW-5 ANALYZED BY
 EPA METHOD 802; REMAINING WELLS
 ANALYZED BY EPA METHOD 8260

LEGEND
 ● MW 1 MONITORING WELLS
 ☒ FLOOR DRAIN

Heindel and Noyes
 • Hydrogeology • Ecology •
 • Environmental Engineering •
 CONSULTING SCIENTISTS AND ENGINEERS
 P.O. BOX 64729
 BURLINGTON, VERMONT 05406-4709
 Prepared By: Information & Visualization Services

DATE: FEBRUARY 24, 1997
 PROJECT NO. 96272
 DRAWN BY: K. Bryan
 PROJ. MGR: S. Warden
 APPROVED: J. Noyes

REYNES/DERBY TRAILER PARK
 VERMONT
 SITE PLAN
 SCALE: 1" = 20'
 FILE: D:\RAYNESDE\SITEPLAN
 DRAFT FINAL



ENDYNE, INC.

Laboratory Services

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

REPORT OF LABORATORY ANALYSIS

CLIENT: Heindel and Noyes, Inc.
PROJECT NAME: Derby Trailer Park
REPORT DATE: January 2, 1997
DATE SAMPLED: December 19, 1996

PROJECT CODE: HNDDT1417
REF.#: 98,215 - 98,222

Enclosed please find the results of the analyses performed for the samples referenced on the attached chain of custody. Chain of custody indicated sample preservation with HCl.

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.

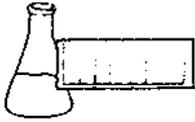
Analytical method precision and accuracy was monitored by laboratory control standards which included matrix spike, duplicate and quality control analyses. These standards were determined to be within established laboratory method acceptance limits.

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



EPA METHOD 602--PURGEABLE AROMATICS

CLIENT: Heindel and Noyes, Inc.
PROJECT NAME: Derby Trailer Park
CLIENT PROJ. #: NI

DATE RECEIVED: December 20, 1996
REPORT DATE: January 2, 1997
PROJECT CODE: HNDDT1417

Ref. #:	98,215	98,216	98,217	98,218	98,219
Site:	MW 1	MW 2	MW 3	MW 4	MW 5
Date Sampled:	12/19/96	12/19/96	12/19/96	12/19/96	12/19/96
Time Sampled:	1:15	1:45	2:15	2:15	1:50
Sampler:	Hoak/DiPietro	Hoak/DiPietro	Hoak/DiPietro	Hoak/DiPietro	Hoak/DiPietro
Date Analyzed:	12/27/96	12/27/96	12/27/96	12/27/96	12/27/96
UIP Count:	0	0	0	0	0
Dil. Factor (%):	100	100	100	100	100
Surr % Rec. (%):	90	89	87	88	88
Parameter	Conc. (ug/L)				
Benzene	<1	<1	<1	<1	<1
Chlorobenzene	<1	<1	<1	<1	<1
1,2-Dichlorobenzene	<1	<1	<1	<1	<1
1,3-Dichlorobenzene	<1	<1	<1	<1	<1
1,4-Dichlorobenzene	<1	<1	<1	<1	<1
Ethylbenzene	<1	<1	<1	<1	<1
Toluene	<1	<1	<1	<1	<1
Xylenes	<1	<1	<1	<1	<1
MTBE	<10	<10	<10	<10	<10

Ref. #:	98,220	98,221	98,222		
Site:	MW 6	Dup	Trip Blank		
Date Sampled:	12/19/96	12/19/96	12/19/96		
Time Sampled:	1:05	1:05	1:10		
Sampler:	Hoak/DiPietro	Hoak/DiPietro	Hoak/DiPietro		
Date Analyzed:	12/27/96	12/27/96	12/30/96		
UIP Count:	0	0	0		
Dil. Factor (%):	100	100	100		
Surr % Rec. (%):	88	88	83		
Parameter	Conc. (ug/L)	Conc. (ug/L)	Conc. (ug/L)		
Benzene	<1	<1	<1		
Chlorobenzene	<1	<1	<1		
1,2-Dichlorobenzene	<1	<1	<1		
1,3-Dichlorobenzene	<1	<1	<1		
1,4-Dichlorobenzene	<1	<1	<1		
Ethylbenzene	<1	<1	<1		
Toluene	<1	<1	<1		
Xylenes	<1	<1	1.8		
MTBE	<10	<10	<10		

Note: UIP = Unidentified Peaks TBQ = Trace Below Quantitation NI = Not Indicated

CHAIN-OF-CUSTODY RECORD

Project Name: DERBY TRAILER PARK Site Location: DERBY, VT	Reporting Address: NHE N	Billing Address: NHE N
Endyne Project Number: HNDT 1417	Company: NHE N Contact Name/Phone #: A. HOAK 658-0820	Sampler Name: A. HOAK K. DIPRETTO Phone #: 658-0820

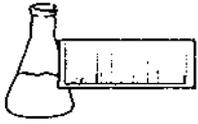
Lab #	Sample Location	Matrix	G R A B	C O M P	Date/Time	Sample Containers		Field Results/Remarks	Analysis Required	Sample Preservation	Rush
						No.	Type/Size				
98,215	MW1	H ₂ O	X		12:19:96 11:15	2	40ml		60Z	HCL	
98,216	MW2	↓	↓		1:45	↓	↓		↓	↓	
98,217	MW3	↓	↓		2:15	↓	↓		↓	↓	
98,218	MW4	↓	↓		2:15	↓	↓		↓	↓	
98,219	MW5	↓	↓		1:50	↓	↓		↓	↓	
98,220	MW6	↓	↓		1:05	↓	↓		↓	↓	
98,221	DVP	↓	↓		1:05	↓	↓		↓	↓	
98,222	TREP BLANK	↓	↓		1:10	↓	↓		↓	↓	

Relinquished by: Signature <i>[Signature]</i>	Received by: Signature <i>[Signature]</i>	Date/Time 10/20/96 1:50 p.m.
Relinquished by: Signature	Received by: Signature	Date/Time

New York State Project: Yes No

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 ₅	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):										



ENDYNE, INC.

2-4

Laboratory Services

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

REPORT OF LABORATORY ANALYSIS

CLIENT: Heindel and Noyes
PROJECT NAME: Derby Trailer Park
REPORT DATE: January 20, 1997
DATE SAMPLED: January 15, 1997

PROJECT CODE: HNDDT1730
REF. #: 98,910 - 98,913

Enclosed please find the results of the analyses performed for the samples referenced on the attached chain of custody.

Chain of custody indicated sample preservation with HCl.

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.

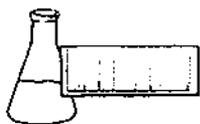
Analytical method precision and accuracy was monitored by laboratory control standards which included matrix spike, duplicate and quality control analyses. These standards were determined to be within established laboratory method acceptance limits.

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



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

LABORATORY REPORT

EPA METHOD 8260 WATER MATRIX

CLIENT: Heindel and Noyes
PROJECT NAME: Derby Trailer Park
REPORT DATE: January 20, 1997
DATE SAMPLED: January 15, 1997
DATE RECEIVED: January 16, 1997
ANALYSIS DATE: January 19, 1997

PROJECT CODE: HNNT1730
REF.#: 98,910
STATION: MW-1
TIME SAMPLED: 10:50
SAMPLER: Padraic Monks

Parameter	Detection Limit (ug/L)	Result (ug/L)	Parameter	Detection Limit (ug/L)	Result (ug/L)
Benzene	1	ND ¹	1,3-Dichloropropane	1	ND
Bromobenzene	1	ND	2,2-Dichloropropane	1	ND
Bromochloromethane	2	ND	1,1-Dichloropropene	1	ND
Bromodichloromethane	1	ND	cis-1,3-Dichloropropene	1	ND
Bromoform	1	ND	trans-1,3-Dichloropropene	1	ND
Bromomethane	5	ND	Ethylbenzene	1	ND
n-Butylbenzene	1	ND	Hexachlorobutadiene	5	ND
sec-Butylbenzene	1	ND	Isopropylbenzene	1	ND
tert-Butylbenzene	1	ND	p-Isopropyltoluene	1	ND
Carbon Tetrachloride	1	ND	Methylene Chloride	5	ND
Chlorobenzene	1	ND	Naphthalene	5	ND
Chloroethane	5	ND	n-Propylbenzene	1	ND
Chloroform	1	ND	Styrene	2	ND
Chloromethane	10	ND	1,1,1,2-Tetrachloroethane	2	ND
2&4-Chlorotoluene	2	ND	1,1,2,2-Tetrachloroethane	2	ND
Dibromochloromethane	1	ND	Tetrachloroethene	1	ND
1,2-Dibromo-3-Chloropropane	2	ND	Toluene	1	ND
1,2-Dibromoethane	2	ND	1,2,3-Trichlorobenzene	2	ND
Dibromomethane	2	ND	1,2,4-Trichlorobenzene	2	ND
1,2-Dichlorobenzene	1	ND	1,1,1-Trichloroethane	1	ND
1,3-Dichlorobenzene	1	ND	1,1,2-Trichloroethane	1	ND
1,4-Dichlorobenzene	1	ND	Trichloroethene	1	ND
Dichlorodifluoromethane	10	ND	Trichlorofluoromethane	2	ND
1,1-Dichloroethane	1	ND	1,2,3-Trichloropropane	1	ND
1,2-Dichloroethane	1	ND	1,2,4-Trimethylbenzene	1	ND
1,1-Dichloroethene	1	ND	1,3,5-Trimethylbenzene	1	ND
cis-1,2-Dichloroethene	1	ND	Vinyl Chloride	5	ND
trans-1,2-Dichloroethene	1	ND	Total Xylenes	2	ND
1,2-Dichloropropane	1	ND	MTBE	2	4.3

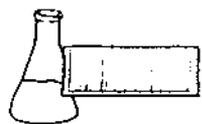
NUMBER OF UNIDENTIFIED PEAKS FOUND: 0

ANALYTICAL SURROGATE RECOVERY:

Dibromofluoromethane : 104.%
Toluene-d8 : 97.%
4-Bromofluorobenzene : 100.%

NOTES:

1 None detected



ENDYNE, INC.

Laboratory Services

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

LABORATORY REPORT

EPA METHOD 8260 WATER MATRIX

CLIENT: Heindel and Noyes
PROJECT NAME: Derby Trailer Park
REPORT DATE: January 20, 1997
DATE SAMPLED: January 15, 1997
DATE RECEIVED: January 16, 1997
ANALYSIS DATE: January 19, 1997

PROJECT CODE: HNNDT1730
REF.#: 98,911
STATION: MW-3
TIME SAMPLED: 11:05
SAMPLER: Padraic Monks

<u>Parameter</u>	<u>Detection Limit</u> (ug/L)	<u>Result</u> (ug/L)	<u>Parameter</u>	<u>Detection Limit</u> (ug/L)	<u>Result</u> (ug/L)
Benzene	1	ND ¹	1,3-Dichloropropane	1	ND
Bromobenzene	1	ND	2,2-Dichloropropane	1	ND
Bromochloromethane	2	ND	1,1-Dichloropropene	1	ND
Bromodichloromethane	1	ND	cis-1,3-Dichloropropene	1	ND
Bromoform	1	ND	trans-1,3-Dichloropropene	1	ND
Bromomethane	5	ND	Ethylbenzene	1	ND
n-Butylbenzene	1	ND	Hexachlorobutadiene	5	ND
sec-Butylbenzene	1	ND	Isopropylbenzene	1	ND
tert-Butylbenzene	1	ND	p-Isopropyltoluene	1	ND
Carbon Tetrachloride	1	ND	Methylene Chloride	5	ND
Chlorobenzene	1	ND	Naphthalene	5	ND
Chloroethane	5	ND	n-Propylbenzene	1	ND
Chloroform	1	ND	Styrene	2	ND
Chloromethane	10	ND	1,1,1,2-Tetrachloroethane	2	ND
2,4-Chlorotoluene	2	ND	1,1,2,2-Tetrachloroethane	2	ND
Dibromochloromethane	1	ND	Tetrachloroethene	1	ND
1,2-Dibromo-3-Chloropropane	2	ND	Toluene	1	ND
1,2-Dibromoethane	2	ND	1,2,3-Trichlorobenzene	2	ND
Dibromomethane	2	ND	1,2,4-Trichlorobenzene	2	ND
1,2-Dichlorobenzene	1	ND	1,1,1-Trichloroethane	1	ND
1,3-Dichlorobenzene	1	ND	1,1,2-Trichloroethane	1	ND
1,4-Dichlorobenzene	1	ND	Trichloroethene	1	ND
Dichlorodifluoromethane	10	ND	Trichlorofluoromethane	2	ND
1,1-Dichloroethane	1	ND	1,2,3-Trichloropropane	1	ND
1,2-Dichloroethane	1	ND	1,2,4-Trimethylbenzene	1	ND
1,1-Dichloroethene	1	ND	1,3,5-Trimethylbenzene	1	ND
cis-1,2-Dichloroethene	1	ND	Vinyl Chloride	5	ND
trans-1,2-Dichloroethene	1	ND	Total Xylenes	2	ND
1,2-Dichloropropane	1	ND	MTBE	2	ND

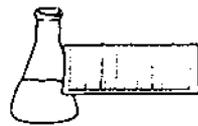
NUMBER OF UNIDENTIFIED PEAKS FOUND: 0

ANALYTICAL SURROGATE RECOVERY:

Dibromofluoromethane : 106. %
Toluene-d8 : 102. %
4-Bromofluorobenzene : 99. %

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 8260 WATER MATRIX

CLIENT: Heindel and Noyes
PROJECT NAME: Derby Trailer Park
REPORT DATE: January 20, 1997
DATE SAMPLED: January 15, 1997
DATE RECEIVED: January 16, 1997
ANALYSIS DATE: January 19, 1997

PROJECT CODE: HNNDT1730
REF.#: 98,912
STATION: MW-6
TIME SAMPLED: 11:20
SAMPLER: Padraic Monks

Parameter	Detection Limit (ug/L)	Result (ug/L)	Parameter	Detection Limit (ug/L)	Result (ug/L)
Benzene	1	ND ¹	1,3-Dichloropropane	1	ND
Bromobenzene	1	ND	2,2-Dichloropropane	1	ND
Bromochloromethane	2	ND	1,1-Dichloropropene	1	ND
Bromodichloromethane	1	ND	cis-1,3-Dichloropropene	1	ND
Bromoform	1	ND	trans-1,3-Dichloropropene	1	ND
Bromomethane	5	ND	Ethylbenzene	1	ND
n-Butylbenzene	1	ND	Hexachlorobutadiene	5	ND
sec-Butylbenzene	1	ND	Isopropylbenzene	1	ND
tert-Butylbenzene	1	ND	p-Isopropyltoluene	1	ND
Carbon Tetrachloride	1	ND	Methylene Chloride	5	ND
Chlorobenzene	1	ND	Naphthalene	5	ND
Chloroethane	5	ND	n-Propylbenzene	1	ND
Chloroform	1	ND	Styrene	2	ND
Chloromethane	10	ND	1,1,1,2-Tetrachloroethane	2	ND
2&4-Chlorotoluene	2	ND	1,1,2,2-Tetrachloroethane	2	ND
Dibromochloromethane	1	ND	Tetrachloroethene	1	ND
1,2-Dibromo-3-Chloropropane	2	ND	Toluene	1	ND
1,2-Dibromoethane	2	ND	1,2,3-Trichlorobenzene	2	ND
Dibromomethane	2	ND	1,2,4-Trichlorobenzene	2	ND
1,2-Dichlorobenzene	1	ND	1,1,1-Trichloroethane	1	ND
1,3-Dichlorobenzene	1	ND	1,1,2-Trichloroethane	1	ND
1,4-Dichlorobenzene	1	ND	Trichloroethene	1	ND
Dichlorodifluoromethane	10	ND	Trichlorofluoromethane	2	ND
1,1-Dichloroethane	1	ND	1,2,3-Trichloropropane	1	ND
1,2-Dichloroethane	1	ND	1,2,4-Trimethylbenzene	1	ND
1,1-Dichloroethene	1	ND	1,3,5-Trimethylbenzene	1	ND
cis-1,2-Dichloroethene	1	ND	Vinyl Chloride	5	ND
trans-1,2-Dichloroethene	1	ND	Total Xylenes	2	ND
1,2-Dichloropropane	1	ND	MTBE	2	2.5

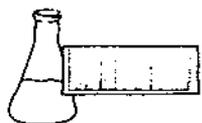
NUMBER OF UNIDENTIFIED PEAKS FOUND: 0

ANALYTICAL SURROGATE RECOVERY:

Dibromofluoromethane : 104. %
Toluene-d8 : 98. %
4-Bromofluorobenzene : 104. %

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 8260 WATER MATRIX

CLIENT: Heindel and Noyes
PROJECT NAME: Derby Trailer Park
REPORT DATE: January 20, 1997
DATE SAMPLED: January 15, 1997
DATE RECEIVED: January 16, 1997
ANALYSIS DATE: January 19, 1997

PROJECT CODE: HNNT1730
REF.#: 98,913
STATION: MW-4
TIME SAMPLED: 11:45
SAMPLER: Padraic Monks

Parameter	Detection Limit (ug/L)	Result (ug/L)	Parameter	Detection Limit (ug/L)	Result (ug/L)
Benzene	1	ND ¹	1,3-Dichloropropane	1	ND
Bromobenzene	1	ND	2,2-Dichloropropane	1	ND
Bromochloromethane	2	ND	1,1-Dichloropropene	1	ND
Bromodichloromethane	1	ND	cis-1,3-Dichloropropene	1	ND
Bromoform	1	ND	trans-1,3-Dichloropropene	1	ND
Bromomethane	5	ND	Ethylbenzene	1	ND
n-Butylbenzene	1	ND	Hexachlorobutadiene	5	ND
sec-Butylbenzene	1	ND	Isopropylbenzene	1	ND
tert-Butylbenzene	1	ND	p-Isopropyltoluene	1	ND
Carbon Tetrachloride	1	ND	Methylene Chloride	5	ND
Chlorobenzene	1	ND	Naphthalene	5	ND
Chloroethane	5	ND	n-Propylbenzene	1	ND
Chloroform	1	ND	Styrene	2	ND
Chloromethane	10	ND	1,1,1,2-Tetrachloroethane	2	ND
2&4-Chlorotoluene	2	ND	1,1,2,2-Tetrachloroethane	2	ND
Dibromochloromethane	1	ND	Tetrachloroethene	1	ND
1,2-Dibromo-3-Chloropropane	2	ND	Toluene	1	ND
1,2-Dibromoethane	2	ND	1,2,3-Trichlorobenzene	2	ND
Dibromomethane	2	ND	1,2,4-Trichlorobenzene	2	ND
1,2-Dichlorobenzene	1	ND	1,1,1-Trichloroethane	1	ND
1,3-Dichlorobenzene	1	ND	1,1,2-Trichloroethane	1	ND
1,4-Dichlorobenzene	1	ND	Trichloroethene	1	ND
Dichlorodifluoromethane	10	ND	Trichlorofluoromethane	2	ND
1,1-Dichloroethane	1	ND	1,2,3-Trichloropropane	1	ND
1,2-Dichloroethane	1	ND	1,2,4-Trimethylbenzene	1	ND
1,1-Dichloroethene	1	ND	1,3,5-Trimethylbenzene	1	ND
cis-1,2-Dichloroethene	1	ND	Vinyl Chloride	5	ND
trans-1,2-Dichloroethene	1	ND	Total Xylenes	2	ND
1,2-Dichloropropane	1	ND	MTBE	2	ND

NUMBER OF UNIDENTIFIED PEAKS FOUND: 0

ANALYTICAL SURROGATE RECOVERY:

Dibromofluoromethane : 103.%
Toluene-d8 : 97.%
4-Bromofluorobenzene : 100.%

NOTES:

1 None detected

CHAIN-OF-CUSTODY RECORD

98,910 — 98,917

Project Name: <u>Derby Trailer Park</u>	Reporting Address: <u>H+N</u>	Billing Address: <u>H+N</u>
Site Location:		
Endyne Project Number: <u>HNDT1730</u>	Company: <u>H+N</u>	Sampler Name: <u>PADRAIC MONKS</u>
	Contact Name/Phone #: <u>PMonks</u>	Phone #: <u>6580820</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				
98,910	MW-1	H ₂ O	X		1-15-97/1050	1	404/40m Plst/16oz		8269	HCL Nitric	
98,911	MW-3	↓	↓		↓/1105	↓		16 oz sample filtered in field	RCRA Metals		
98,912	MW-6	↓	↓		↓/1120	↓					
98,913	MW-4	↓	↓		↓/1175	↓					

Relinquished by: Signature <u>Padraic Monks</u>	Received by: Signature <u>Patrick M. Chambers</u>	Date/Time <u>1-16-97</u>	<u>9:50</u>
Relinquished by: Signature	Received by: Signature	Date/Time	

New York State Project: Yes No

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 ₅	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):										



Laboratory Services

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REPORT OF LABORATORY ANALYSIS

CLIENT: Heindel and Noyes
PROJECT NAME: Derby Trailer Park
REPORT DATE: January 23, 1997
DATE SAMPLED: January 15, 1997
REVISED REPORT: January 23, 1997

PROJECT CODE: HNNDT3731
REF.#: 98,914 - 98,917

Enclosed please find the results of the analyses performed for the samples referenced on the attached chain of custody.

Chain of custody indicated metals preservation in the field with HNO₃.

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.

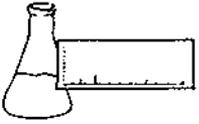
Blank contamination was not observed at levels affecting the analytical results.

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

Reviewed by,

Harry B. Locker, Ph.D.
Laboratory Director

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LABORATORY REPORT

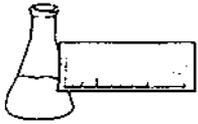
CLIENT: Heindel and Noyes
PROJECT NAME: Derby Trailer Park
REPORT DATE: January 23, 1997
DATE SAMPLED: January 15, 1997
DATE RECEIVED: January 16, 1997

PROJECT CODE: HNNT3731
REF. #: 98,914
STATION: MW-1
TIME SAMPLED: 10:50
SAMPLER: Padraic Monks

<u>Parameter</u>	<u>Concentration</u> (mg/L, ppm)	<u>Reporting Limit</u> (mg/L, ppm)	<u>EPA Method</u>	<u>Analysis Date</u>
Dissolved Arsenic	ND ¹	0.005	200.9	1/20/97
Dissolved Barium	0.011	0.010	6010	1/20/97
Dissolved Cadmium	ND	0.002	6010	1/20/97
Dissolved Chromium	ND	0.010	6010	1/20/97
Dissolved Lead	ND	0.002	200.9	1/17/97
Total Dissolved Mercury	ND	0.001	245.1	1/23/97
Dissolved Selenium	ND	0.010	200.9	1/21/97
Dissolved Silver	ND	0.010	6010	1/20/97

NOTES:

1 None Detected



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LABORATORY REPORT

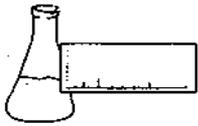
CLIENT: Heindel and Noyes
PROJECT NAME: Derby Trailer Park
REPORT DATE: January 23, 1997
DATE SAMPLED: January 15, 1997
DATE RECEIVED: January 16, 1997

PROJECT CODE: HNNT3731
REF. #: 98,915
STATION: MW-3
TIME SAMPLED: 11:05
SAMPLER: Padraic Monks

<u>Parameter</u>	<u>Concentration</u> (mg/L, ppm)	<u>Reporting Limit</u> (mg/L, ppm)	<u>EPA Method</u>	<u>Analysis Date</u>
Dissolved Arsenic	ND ¹	0.005	200.9	1/20/97
Dissolved Barium	0.023	0.010	6010	1/20/97
Dissolved Cadmium	ND	0.002	6010	1/20/97
Dissolved Chromium	ND	0.010	6010	1/20/97
Dissolved Lead	ND	0.002	200.9	1/17/97
Total Dissolved Mercury	ND	0.001	245.1	1/23/97
Dissolved Selenium	ND	0.010	200.9	1/21/97
Dissolved Silver	ND	0.010	6010	1/20/97

NOTES:

1 None Detected



ENDYNE, INC.

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LABORATORY REPORT

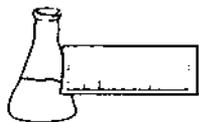
CLIENT: Heindel and Noyes
PROJECT NAME: Derby Trailer Park
REPORT DATE: January 23, 1997
DATE SAMPLED: January 15, 1997
DATE RECEIVED: January 16, 1997

PROJECT CODE: HN3731
REF. #: 98,916
STATION: MW-6
TIME SAMPLED: 11:20
SAMPLER: Padraic Monks

<u>Parameter</u>	<u>Concentration</u> (mg/L, ppm)	<u>Reporting Limit</u> (mg/L, ppm)	<u>EPA Method</u>	<u>Analysis Date</u>
Dissolved Arsenic	0.004	0.005	200.9	1/20/97
Dissolved Barium	0.050	0.010	6010	1/20/97
Dissolved Cadmium	ND ¹	0.002	6010	1/20/97
Dissolved Chromium	ND	0.010	6010	1/2/97
Dissolved Lead	ND	0.002	200.9	1/17/97
Total Dissolved Mercury	ND	0.001	245.1	1/23/97
Dissolved Selenium	ND	0.010	200.9	1/21/97
Dissolved Silver	ND	0.010	6010	1/20/97

NOTES:

1 None Detected



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LABORATORY REPORT

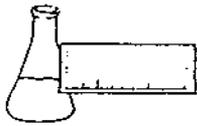
CLIENT: Heindel and Noyes
PROJECT NAME: Derby Trailer Park
REPORT DATE: January 23, 1997
DATE SAMPLED: January 15, 1997
DATE RECEIVED: January 16, 1997

PROJECT CODE: HNNT3731
REF. #: 98,917
STATION: MW-4
TIME SAMPLED: 11:45
SAMPLER: Padraic Monks

<u>Parameter</u>	<u>Concentration</u> (mg/L, ppm)	<u>Reporting Limit</u> (mg/L, ppm)	<u>EPA Method</u>	<u>Analysis Date</u>
Dissolved Arsenic	ND ¹	0.005	200.9	1/20/97
Dissolved Barium	0.013	0.010	6010	1/20/97
Dissolved Cadmium	ND	0.002	6010	1/20/97
Dissolved Chromium	ND	0.010	6010	1/20/97
Dissolved Lead	ND	0.002	200.9	1/17/97
Total Dissolved Mercury	ND	0.001	245.1	1/23/97
Dissolved Selenium	ND	0.010	200.9	1/21/97
Dissolved Silver	ND	0.010	6010	1/20/97

NOTES:

1 None Detected



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METALS LABORATORY REPORT

DUPLICATE CONTROL DATA

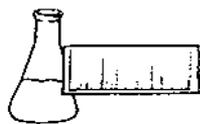
CLIENT: Heindel and Noyes
PROJECT NAME: Derby Trailer Park
REPORT DATE: January 23, 1997
DATE SAMPLED: January 15, 1997
DATE RECEIVED: January 16, 1997

PROJECT CODE: HNDR3731
REF. #: 98,914
STATION: MW-1
TIME SAMPLED: 10:50
SAMPLER: Padraic Monks

<u>Parameter</u>	<u>Dup 1</u> <u>(mg/L)</u>	<u>Dup 2</u> <u>(mg/L)</u>	<u>Rel. % Diff.</u>
Dissolved Arsenic	ND ¹	ND	ND
Dissolved Barium	0.012	0.011	9.
Dissolved Cadmium	ND	ND	ND
Dissolved Chromium	ND	ND	ND
Dissolved Lead	ND	ND	ND
Toal Dissolved Mercury	ND	ND	ND
Dissolved Selenium	ND	ND	ND
Dissolved Silver	ND	ND	ND

NOTES:

1 None Detected



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METALS LABORATORY REPORT

SPIKE CONTROL DATA

CLIENT: Heindel and Noyes
PROJECT NAME: Derby Trailer Park
REPORT DATE: January 23, 1997
DATE SAMPLED: January 15, 1997
DATE RECEIVED: January 16, 1997

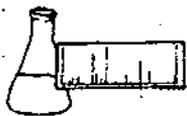
PROJECT CODE: HN3DT3731
REF. #: 98,915
STATION: MW-3
TIME SAMPLED: 11:05
SAMPLER: Padraic Monks

<u>Parameter</u>	<u>Concentration</u> <u>(mg/L)</u>	<u>Target</u> <u>(mg/L)</u>	<u>Spike Result</u> <u>(mg/L)</u>	<u>% Rec.</u>
Dissolved Arsenic	ND ¹	0.010	0.011	103.
Dissolved Barium	0.023	0.400	0.454	108.
Dissolved Cadmium	ND	0.200	0.213	107.
Dissolved Chromium	ND	0.400	0.433	107.
Dissolved Lead	ND	0.010	0.011	115.
Dissolved Silver	ND	0.200	0.173	89.

NOTES:

1 None Detected

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**ENDYNE, INC.****Laboratory Services**

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REPORT OF LABORATORY ANALYSIS

CLIENT: Heindel and Noyes
PROJECT NAME: Derby Trailer Park
REPORT DATE: February 21, 1997
DATE SAMPLED: February 7, 1997

PROJECT CODE: HNDDT1944
REF.#: 99,856 - 99,858

Enclosed please find the results of the analyses performed for the samples referenced on the attached chain of custody. Chain of custody indicated sample preservation with HCl.

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.

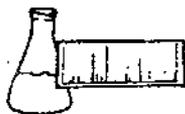
Analytical method precision and accuracy was monitored by laboratory control standards which included matrix spike, duplicate and quality control analyses. These standards were determined to be within established laboratory method acceptance limits.

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

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ENDYNE, INC.

Laboratory Services

32 James Brown Drive
Williston, Vermont 05495
(802) 879-4333
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EPA METHOD 602-PURGEABLE AROMATICS

CLIENT: Heindel and Noyes

DATE RECEIVED: February 10, 1997

PROJECT NAME: Derby Trailer Park

REPORT DATE: February 21, 1997

CLIENT PROJ. #: NI

PROJECT CODE: HNDT1944

Ref. #:	99,856	99,857	99,858		
Site:	MW 7	MW 8	MW 9		
Date Sampled:	2/7/97	2/7/97	2/7/97		
Time Sampled:	3:00	3:15	3:30		
Sampler:	A. Hoak	A. Hoak	A. Hoak		
Date Analyzed:	2/20/97	2/21/97	2/20/97		
UIP Count:	>10	>10	>10		
Dil. Factor (%):	1	5	100		
Surr % Rec. (%):	96	107	95		
Parameter	Conc. (ug/L)	Conc. (ug/L)	Conc. (ug/L)		
Benzene	1,030.	76.5	TBQ <1		
Chlorobenzene	<100	<20	<1		
1,2-Dichlorobenzene	<100	<20	<1		
1,3-Dichlorobenzene	<100	<20	<1		
1,4-Dichlorobenzene	<100	<20	<1		
Ethylbenzene	3,270.	275.	2.6		
Toluene	6,570.	210.	1.9		
Xylenes	16,000.	675.	10.4		
MTBE	<1000	<200	<10		

Note: UIP = Unidentified Peaks TBQ = Trace Below Quantitation NI = Not Indicated

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20306



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Williston, Vermont 05495
(802) 879-4333

CHAIN-OF-CUSTODY RECORD

Project Name: <u>Derby Trailer Park</u> Site Location:	Reporting Address: <u>H+N</u>	Billing Address: <u>H+N</u>
Endyne Project Number: <u>HNDT3731</u>	Company: <u>H+N</u> Contact Name/Phone #: <u>P Monks</u>	Sampler Name: <u>PADRAIC MONKS</u> Phone #: <u>6580820</u>

Lab #	Sample Location	Matrix	GRA B	COMP	Date/Time	Sample Containers		Field Results/Remarks	Analysis Required	Sample Preservation	Rush
						No.	Type/Size				
98, 914	MW-1	H ₂ O	✓		1-15-97/1050	1	VDA/40ml Pist/16oz		8269	HCL Nitric	
98, 915	MW-3	↓	↓		↓/1105	↓		16 oz sample	RCRA		
98, 916	MW-6	↓	↓		↓/1120	↓		filtered in	Metals		
98, 917	MW-4	↓	↓		↓/1145	↓		field	↓		

Relinquished by: Signature <u>Padraic Monks</u>	Received by: Signature <u>Jane M. Chambers</u>	Date/Time <u>1-15-97</u> <u>9:50</u>
Relinquished by: Signature	Received by: Signature	Date/Time

New York State Project: Yes No

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 ₅	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):										

2-10-1

VERMONT AGENCY OF NATURAL RESOURCES
HAZARDOUS MATERIALS MANAGEMENT

103 South Main Street
Waterbury, Vermont 05671-0404
802-244-8702

FOR STATE USE ONLY

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

UNIFORM HAZARDOUS WASTE MANIFEST		1. Generator's US EPA ID No. VT P 00000749751026	Manifest Document No.	2. Page 1 of 1	Information in the shaded areas is not required by Federal law, but may be required by State law.	
3. Generator's Name and Mailing Address (where manifests are managed) RUTLAND P.O. BOX 978 RUTLAND, VT 05702				A. State Manifest Document Number VT 0051026		
4. Generator's Phone (802 775-0025)				B. Generation Site (if different) DERBY TRAILER PK, RT. 5 DERBY VT		
5. Transporter 1 Company Name ENVIRONMENTAL PRODUCTS & SERVICES, INC.		6. US EPA ID Number NY D 98076119		C. Trans. 1 Lic. St. VT State # 7146014		
Transporter 2 Company Name		8. US EPA ID Number		D. Trans. 1 Phone (615 471-0563)		
Designated Facility Name and Site Address EVERGREEN ENVIRONMENTAL INC. 33 INDUSTRY DRIVE BEDFORD, NH 44145				E. Trans. 2 Lic. St. Plate #		
10. US EPA ID Number ORD 055522429				F. Trans. 2 Phone ()		
				G. State Facility's ID (Not Required)		
				H. Facility's Phone (215 786-7800)		
US DOT Description (Including Proper Shipping Name, Hazard Class, and ID Number)		12. Containers No.	13. Total Quantity	14. Unit Wt/Vol	I. Waste No.	
a. HAZARDOUS WASTE SOLID, NOS (ARSENIC, CHROME), 9, MA3077, PGLI		015	D 10500	P	EP 8004 1507 STATE	
b.					EPA STATE	
c.					EPA STATE	
d.					EPA STATE	
Additional Descriptions for Materials Listed Above		K. Handling Codes for Wastes Listed Above:				
a.		Interim		Final		
b.		c.		d.		
Special Handling Instructions and Additional Information Job #: Y0830 PO #: 45269 ERG A. 171				Point of Departure or Entry - City, State Emergency #: (315)471-0503		
GENERATOR'S CERTIFICATION: I hereby declare that the contents of this consignment are fully and accurately described above by proper shipping name and are classified, packed, marked, and labeled, and are in all respects in proper condition for transport by highway according to applicable international and national government regulations, and all applicable State law and regulations.						
If I am a large quantity generator, I certify that I have a program in place to reduce the volume and toxicity of waste generated to the degree I have determined to be economically practicable and that I have selected the practicable method of treatment, storage, or disposal currently available to me which minimizes the present and future threat to human health and the environment; OR, if I am a small quantity operator, I have made a good faith effort to minimize my waste generation, and select the best waste management method that is available to me and that I can afford.						
Printed/Typed Name Andrew T. Hook		Signature <i>Andrew T. Hook</i>			Month Day Year 11 7 1996	
7. Transporter 1 Acknowledgement of Receipt of Materials Printed/Typed Name William C. Cook		Signature <i>William C. Cook</i>			Month Day Year 11 7 1996	
8. Transporter 2 Acknowledgement of Receipt of Materials Printed/Typed Name		Signature			Month Day Year	
9. Discrepancy Indication Space						
10. Facility Owner or Operator: Certification of receipt of hazardous materials covered by this manifest except as noted in Item 19.						
Printed/Typed Name		Signature			Month Day Year	

COPY 8: GENERATOR RETAINS

VT 0051026

**Derby Trailer Park
Derby, Vermont**

Summary of Water Quality Sampling

(all concentrations in ug/L, ppb)

Contaminant	Groundwater Monitoring Wells									GW Enforcement Standards
	MW-1	MW-2	MW-3	MW-4	MW-5	MW-6	MW-7	MW-8	MW-9	
Date	12/19/96	12/19/96	12/19/96	12/19/96	12/19/96	12/19/96	2/7/97	2/7/97	2/7/97	
EPA Method 602										
Benzene	<1	<1	<1	<1	<1	<1	1030	76.5	TBQ	5.0
Ethylbenzene	<1	<1	<1	<1	<1	<1	3270	275	2.6	680.0
Toluene	<1	<1	<1	<1	<1	<1	6570	210	1.9	2420
Xylenes	<1	<1	<1	<1	<1	<1	16000	675	10.4	400
Total BTEX	ND	ND	ND	ND	ND	ND	26870	1236.5	14.9	
MTBE	<10	<10	<10	<10	<10	<10	<1000	<200	10.4	40 *
UIP	0	0	0	0	0	0	>10	>10	>10	
01/15/97 EPA Method 8260										
Benzene	<1	NS	<1	<1	NS	<1	NS	NS	NS	5.0
Ethylbenzene	<1	NS	<1	<1	NS	<1	NS	NS	NS	680.0
Toluene	<1	NS	<1	<1	NS	<1	NS	NS	NS	2420
Xylenes	<2	NS	<2	<2	NS	<2	NS	NS	NS	400
Total BTEX	ND	NS	ND	ND	NS	ND	NS	NS	NS	
MTBE	4.3	NS	<2	<2	NS	2.5	NS	NS	NS	40 *
UIP	0	NS	0	0	NS	0	NS	NS	NS	
01/15/97 Metals										
Dissolved Arsenic	<5	NS	<5	<5	NS	4	NS	NS	NS	50
Dissolved Barium	11	NS	23	13	NS	50	NS	NS	NS	1000
Dissolved Cadmium	<2	NS	<2	<2	NS	<2	NS	NS	NS	5
Dissolved Chromium	<10	NS	<10	<10	NS	<10	NS	NS	NS	50
Dissolved Lead	<2	NS	<2	<2	NS	<2	NS	NS	NS	20
Dissolved Lead	<2	NS	<2	<2	NS	<2	NS	NS	NS	2
Dissolved Mercury	<1	NS	<1	<1	NS	<1	NS	NS	NS	2
Dissolved Mercury	<1	NS	<1	<1	NS	<1	NS	NS	NS	50 **
Dissolved Selenium	<10	NS	<10	<10	NS	<10	NS	NS	NS	50 **
Dissolved Selenium	<10	NS	<10	<10	NS	<10	NS	NS	NS	50
Dissolved Silver	<10	NS	<10	<10	NS	<10	NS	NS	NS	50

Notes:

Groundwater Enforcement Standard, from Groundwater Protection Rule and Strategy, September 1988.

* Vermont Health Advisory, from the Vermont Health Advisory Guide, March 1996.

** EPA Maximum Contaminant Level, from the Vermont Health Advisory Guide, March 1996.

UIP = Unidentified Peaks

ND = None Detected

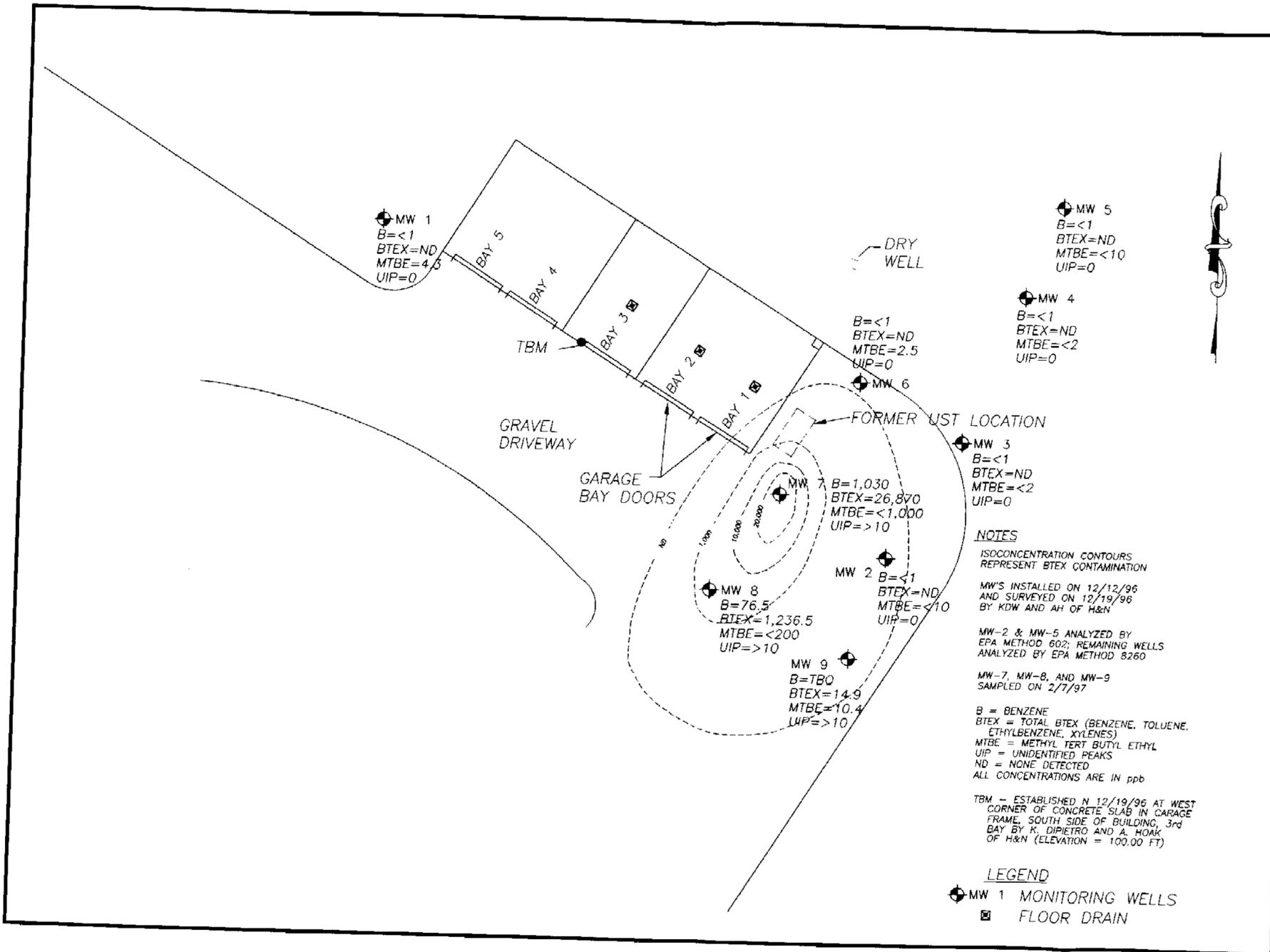
NS = Not Sampled

DERBY TRAILER PARK
Derby, Vermont

Monitor Well Installation
Summary of Soil Screening
 December 12, 1996; February 7, 1997

Depth (feet)	PID (ppm)	
	bkg	sample
MW-1		
0 - 2	0.4	0.4
2 - 4	0.4	0.4
4 - 6	0.4	0.4
6 - 8	0.4	0.4
8 - 10	0.4	0.4
MW-2		
0 - 2	0.6	0.4
2 - 4	0.4	0.4
4 - 6	0.4	0.4
6 - 8	0.4	0.4
MW-3		
0 - 2	0.2	0.8
2 - 4	0.2	0.6
4 - 6	0.2	0.6
6 - 8	0.2	0.6
MW-4		
5 - 7	0.2	1.0
7 - 9	0.2	0.8
MW-5		
5 - 7	0.6	0.8
7 - 9	0.6	0.8
MW-6		
5 - 7	0.2	0.4
7 - 9	0.2	0.2
MW-7		
2 - 8	0.0	7.7
8 - 11	0.0	731
MW-8		
2 - 8	0.0	0.0
9 - 12	0.0	9.1
MW-9		
4 - 8	0.0	1.7
8 - 11	0.0	3.4

Notes: Monitor wells MW-7 through MW-9 installed via backhoe on 2/7/97



Heindel and Noyes
 • Hydrogeology • Ecology •
 • Environmental Engineering •
 CONSULTING SCIENTISTS AND ENGINEERS
 P.O. BOX 64709
 BURLINGTON, VERMONT 05406-4709
 Prepared By: Information & Visualization Services

DATE: FEBRUARY 24, 1997
 PROJECT NO. 96272
 DRAWN BY: K. Bryan
 PROJ. MGR: K. Warden
 APPROVED: J. Noyes

REYNES/DERBY TRAILER PARK
 VERMONT
 CONTAMINANT CONCENTRATIONS
 (DECEMBER 19, 1996, JANUARY 15, AND FEBRUARY 7, 1997)
 FILE: D:\RAYNESDE\SITEPLAN
 SCALE: 1" = 20'

DRAFT FINAL

4-1

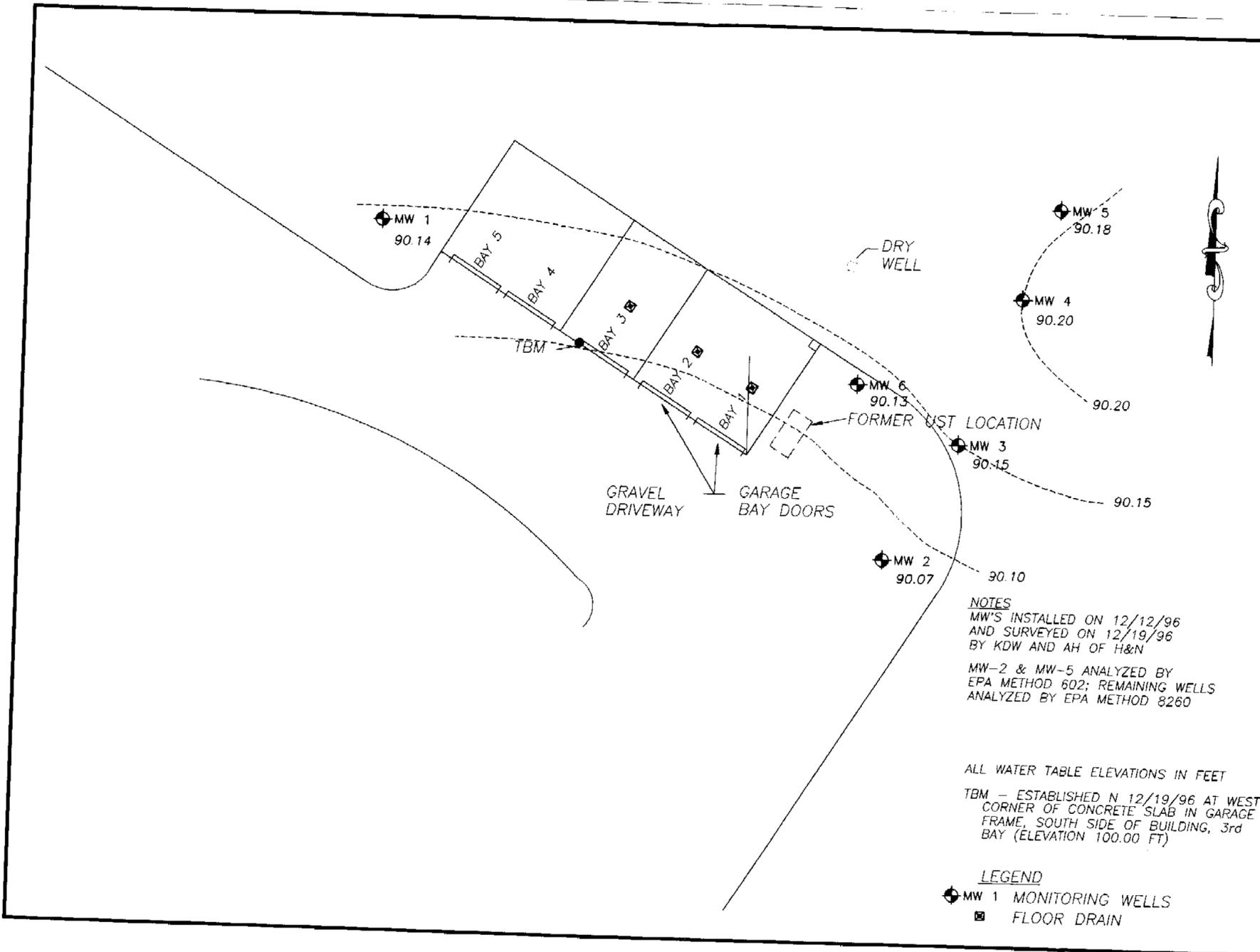
**Derby Trailer Park
Derby, Vermont**

December 19, 1996 Water Table Elevations

Well Location	Top of Pipe Elevation (ft)	Depth to Groundwater (ft btp)	Groundwater Elevation (ft)
MW-1	99.53	9.39	90.14
MW-2	96.61	6.54	90.07
MW-3	96.15	6.00	90.15
MW-4	96.11	5.91	90.20
MW-5	96.36	6.18	90.18
MW-6	99.61	9.48	90.13

Notes:

- TBM established on 12/19/96 at west corner of concrete slab in garage frame - south side of building - 3rd bay (Elev. = 100.00 ft) by K. Dipietro & A. Hoak of H & N.
- NA = Not Available
- btp = below top pipe



Heindel and Noyes
 • Hydrogeology • Ecology •
 • Environmental Engineering •
 CONSULTING SCIENTISTS AND ENGINEERS
 P.O. BOX 64709
 BURLINGTON, VERMONT 05408-4709
 Prepared By: J. Noyes
 Information & Visualization Services

DATE: JANUARY 28, 1997
 PROJECT NO. 96272
 DRAWN BY: K. Bryan
 PROJ. MGR: J. Warden
 APPROVED: J. Noyes
 DRAFT FINAL

REYNES/DERBY TRAILER PARK
 VERMONT
 GROUNDWATER ELEVATIONS (DECEMBER 19, 1996)
 SCALE: 1" = 20'
 FILE: D:\RAYNESDE\SITEPLAN

SOIL BORING LOG

HEINDEL & NOYES P.O. BOX 64709 BURLINGTON, VT 05406-4709				Project: <u>Derby Trailer Park</u> <u>Derby, Vermont</u>				Boring Number: <u>MW 2</u> Sheet _____ of _____ Project Number: <u>96271</u>																			
Boring Company: <u>M & W Soils Engineering</u> Foreman: <u>Dick Holmes</u> H&N Staff: <u>Andrew Hoak</u>						Boring Location: <u>Downgradient of former UST</u> Ground Elevation: _____ Date Started: <u>12/12/96</u> Date Ended: <u>12/12/96</u>																					
Casing: <u>Solid Stem Auger</u> Type: <u>Split Spoon</u> Other: _____ Hammer: <u>140 Pounds</u> Hammer: _____ Fall: <u>30 inches</u> Fall: _____						Groundwater Readings Date Depth CASH Stabil. Time																					
Sample				Sample Description				Strata Change & General Description		Field Testing PID		Equipment or Well Installed															
No.	Rec.	Depth	Blows																								
1		0'-2'	30,20, 10,5	Brown medium and fine moist sands, little silt				0.6/0.4																			
2		2'-4'	3,4,7,12	Brown medium and fine moist sands, little silt				0.4/0.4																			
3		4'-6'	10,11,9, 12	Brown medium and fine moist sands, little silt				0.4/0.4																			
4		6'-8'	7,7,7,6	Brown medium and fine moist sands, little silt				0.4/0.4		Well installed at 13'. 10' of .020 slot screen socked, 3' of riser. Curb box with locking cap.																	
Proportions Used Trace: 0 to 10% Little: 10 to 20% Some: 20 to 35% And: 35 to 50%				Penetration Resistance 140 lb wt falling 20" on 2" O.D. Sampler <table style="width: 100%; border: none;"> <tr> <td style="width: 50%;"><u>Cohesiveness</u></td> <td style="width: 50%;"><u>Cohesive</u></td> </tr> <tr> <td><u>Density</u></td> <td><u>Consistency</u></td> </tr> <tr> <td>0-4 Very Loose</td> <td>0-2 Very Soft</td> </tr> <tr> <td>5-9 Loose</td> <td>3-4 Soft</td> </tr> <tr> <td>10-29 Med. Dense</td> <td>5-8 M/Stiff</td> </tr> <tr> <td>30-49 Dense</td> <td>9-15 Stiff</td> </tr> <tr> <td>50+ Very Dense</td> <td>16-30 Very Stiff</td> </tr> <tr> <td></td> <td>31+ Hard</td> </tr> </table>				<u>Cohesiveness</u>	<u>Cohesive</u>	<u>Density</u>	<u>Consistency</u>	0-4 Very Loose	0-2 Very Soft	5-9 Loose	3-4 Soft	10-29 Med. Dense	5-8 M/Stiff	30-49 Dense	9-15 Stiff	50+ Very Dense	16-30 Very Stiff		31+ Hard	Well Construction Legend Concrete: Finish Bentonite: 1-0' bgs Grout Silica Sand Backfill: 1-13' bgs Bedrock			
<u>Cohesiveness</u>	<u>Cohesive</u>																										
<u>Density</u>	<u>Consistency</u>																										
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SOIL BORING LOG

HEINDEL & NOYES P.O. BOX 64709 BURLINGTON, VT 05406-4709				Project: <u>Derby Trailer Park</u> <u>Derby, Vermont</u>				Boring Number: <u>MW4</u> Sheet _____ of _____ Project Number: <u>96271</u>																	
Boring Company: <u>M & W Soils Engineering</u> Foreman: <u>Dick Holmes</u> H&N Staff: <u>Andrew Hoak</u>						Boring Location: <u>Downgradient of former UST</u> Ground Elevation: _____ Date Started: <u>12/12/96</u> Date Ended: <u>12/12/96</u>																			
Casing: <u>Solid Stem Auger</u> Type: <u>Split Spoon</u> Other: _____ Hammer: <u>140 Pounds</u> Hammer: _____ Fall: <u>30 Inches</u> Fall: _____						Date _____ Time _____		Groundwater Readings Depth _____ Casing _____ Stabil. _____																	
Sample				Sample Description				Strata Change & General Description		Field Testing PID		Equipment or Well Installed													
No.	Rec.	Depth	Blows																						
1		5'-7'	5,6,6,8	Brown medium/fine moist sands, with silt				0.2/1.0																	
2		7'-9'	7,16,14 20	Brown medium/fine moist sands, with silt				0.2/0.8		Well installed at 12'. 8' of 0.020 slotted screen socked 4' riser. Curb box with locking cap.															
Proportions Used Trace: 0 to 10% Little: 10 to 20% Some: 20 to 35% And: 35 to 50%			Penetration Resistance 140 lb wt falling 20" on 2" O.D. Sampler <table style="width: 100%; border: none;"> <tr> <td style="width: 50%;"><u>Cohesiveness</u></td> <td style="width: 50%;"><u>Cohesive Consistency</u></td> </tr> <tr> <td>0-4 Very Loose</td> <td>0-2 Very Soft</td> </tr> <tr> <td>5-9 Loose</td> <td>3-4 Soft</td> </tr> <tr> <td>10-29 Med. Dense</td> <td>5-8 M/Stiff</td> </tr> <tr> <td>30-49 Dense</td> <td>9-15 Stiff</td> </tr> <tr> <td>50+ Very Dense</td> <td>16-30 Very Stiff</td> </tr> <tr> <td></td> <td>31+ Hard</td> </tr> </table>						<u>Cohesiveness</u>	<u>Cohesive Consistency</u>	0-4 Very Loose	0-2 Very Soft	5-9 Loose	3-4 Soft	10-29 Med. Dense	5-8 M/Stiff	30-49 Dense	9-15 Stiff	50+ Very Dense	16-30 Very Stiff		31+ Hard	Well Construction Legend Concrete: Finish Bentonite: 0-1' bgs Grout Silica Sand Backfill: 1-12' bgs Bedrock		
<u>Cohesiveness</u>	<u>Cohesive Consistency</u>																								
0-4 Very Loose	0-2 Very Soft																								
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SOIL BORING LOG

HEINDEL & NOYES P.O. BOX 64709 BURLINGTON, VT 05406-4709				Project: <u>Derby Trailer Park</u> <u>Derby, Vermont</u>				Boring Number: <u>M W 6</u> Sheet _____ of _____ Project Number: <u>96271</u>																			
Boring Company: <u>M & W Soils Engineering</u> Foreman: <u>Dick Holmes</u> H&N Staff: <u>Andrew Hoak</u>				Boring Location: <u>Downgradient of former UST</u> Ground Elevation: _____ Date Started: <u>12/12/96</u> Date Ended: <u>12/12/96</u>																							
Casing: _____ Size: <u>Solid Stem Auger</u> Type: <u>Split Spoon</u> Other: _____ Hammer: <u>140 Pounds</u> Hammer: _____ Fall: <u>30 inches</u> Fall: _____				Sampler: _____ Groundwater Readings Date _____ Depth _____ Cashin _____ Stabil. _____ Time _____																							
Sample				Sample Description				Strata Change & General Description		Field Testing PID		Equipment or Well Installed															
No.	Rec.	Depth	Blows																								
1		6'-7'	8,8,7,3	Moist brown medium to fine brown sand with silt						0.2/0.4																	
2		7'-9'	4,5,7 ?	Moist brown medium to fine brown sand with silt						0.26/0.2		Well installed at 12'. 10' of 0.020 slotted screen socked 5' riser. Well guard with 3' stick-up and locking cap.															
Proportions Used Trace: 0 to 10% Little: 10 to 20% Some: 20 to 35% And: 35 to 50%				Penetration Resistance 140 lb wt falling 20" on 2" O.D. Sampler <table style="width: 100%; border: none;"> <tr> <td style="width: 50%;"><u>Cohesionless</u></td> <td style="width: 50%;"><u>Cohesive</u></td> </tr> <tr> <td><u>Density</u></td> <td><u>Consistency</u></td> </tr> <tr> <td>0-4 Very Loose</td> <td>0-2 Very Soft</td> </tr> <tr> <td>5-9 Loose</td> <td>3-4 Soft</td> </tr> <tr> <td>10-29 Med. Dense</td> <td>5-8 M/Stiff</td> </tr> <tr> <td>30-49 Dense</td> <td>9-15 Stiff</td> </tr> <tr> <td>50+ Very Dense</td> <td>16-30 Very Stiff</td> </tr> <tr> <td></td> <td>31+ Hard</td> </tr> </table>				<u>Cohesionless</u>	<u>Cohesive</u>	<u>Density</u>	<u>Consistency</u>	0-4 Very Loose	0-2 Very Soft	5-9 Loose	3-4 Soft	10-29 Med. Dense	5-8 M/Stiff	30-49 Dense	9-15 Stiff	50+ Very Dense	16-30 Very Stiff		31+ Hard	Well Construction Legend Concrete: Finish Bentonite: 0' -1' bgs Grout Silica Sand Backfill: 1'-12' bgs Bedrock			
<u>Cohesionless</u>	<u>Cohesive</u>																										
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