

JUL 23 1991



July 22, 1991

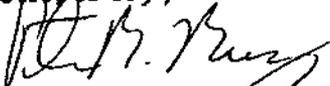
Mr. John Jamison  
Manchester Wood, Inc.  
P.O. Box 180  
North Street  
Granville, NY 12832

Dear Mr. Jamison:

Enclosed is the report on the subsurface investigation at the former Manchester Wood facility in Manchester, Vermont. Please call me if you have any questions regarding this report.

We have appreciated the opportunity to conduct this investigation for your company, and would be pleased to provide our services to you in the future, if the need arises.

Sincerely,

  
Peter M. Murray  
Project Hydrogeologist

cc: Chuck Schwer, VT DEC

JUL 23 1991

REPORT ON THE INVESTIGATION  
OF SUBSURFACE PETROLEUM CONTAMINATION  
MANCHESTER WOOD, INC.  
MANCHESTER, VERMONT

June - July, 1991

Prepared for:

Manchester Wood, Inc.  
Granville, New York

Prepared by:

Griffin International, Inc.  
2B Dorset Lane  
Williston, Vermont  
(802) 879-7708

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## 1.0 INTRODUCTION

This report details the investigation of subsurface petroleum contamination at the former Manchester Wood, Inc. facility, on Depot Street (Routes 11 & 30), in Manchester, Vermont. The investigation has been conducted by Griffin International, Inc. (Griffin), for Manchester Wood, Inc. The investigation was conducted at the request of the State of Vermont Department of Environmental Conservation (DEC). The request was included in a letter from the DEC to Manchester Wood, dated May 29th, 1991.

The investigation has been conducted to define the degree and extent of soil and groundwater petroleum contamination at the site and to determine the risk that the contamination poses to the adjacent Battenkill River.

## 2.0 SITE BACKGROUND

### 2.1 Site History

Historically, the subject site has been a woodworking facility since the early 1900's. Wood Moldings were initially made at the facility, which was owned by Manchester Molding from 1930 to 1976. The property was purchased by Manchester Wood, Inc., in 1976. Until March, 1991, the property has been used as a wood products factory and a factory retail store. In March, 1991, the property was conveyed to Manchester Square Partners, LP. The property is currently being renovated to house a retail shopping complex.

WST ?  
Prior to purchasing the property, Manchester Square Partners contracted Con-Test to conduct a site assessment to determine if any environmental liabilities existed on the site. The assessment report indicates that relatively low concentrations of subsurface contamination existed on the property. Adjacent properties were identified as possible sources of the contamination. In addition, the assessment identified an above-ground heating oil tank immediately adjacent to the southwest corner of the factory building. Con-Test installed a monitoring well downgradient of the above ground tank and, based on data collected from that well, the assessment concluded that the tank was not likely leaking. As part of the contract of sale, however, Manchester Wood agreed to remove the tank.

Since the Con-Test assessment was conducted, the three monitoring wells installed by Con-Test have been destroyed.

The tank was removed from the property on May 14th, 1991. The tank removal was inspected by a DEC official, Mr. Marc Coleman. Mr. Coleman's tank pull report indicates that the soils beneath the former tank contained hydrocarbon vapors in concentrations of up to 20 parts per million (ppm), as measured with a portable photoionization device (PID). In addition, the report indicates the presence of "heavy red staining and high biological activity" along the bank of the Battenkill on the subject property.

In response, the DEC requested that Manchester Wood retain the services of a qualified consultant to conduct a subsurface investigation to determine the degree and extent of the contamination and to assess the risk that the contamination poses to the Battenkill River. On June 17th, 1991, Manchester Wood contracted Griffin to conduct the investigation.

## 2.2 Site Description

The subject property is located at the southwest corner of the intersection of Depot Street (Routes 11 & 30) and Richville Road, in Manchester Center, Vermont (see Site Location Map, in Appendix A). The property consists of a 2.4 acre parcel containing two buildings which are currently being converted to a retail shopping center (see Site Map, in Appendix A). The property is surrounded by a variety of land uses, including commercial and residential. The Battenkill River forms the southern boundary of the property and flows from east to west in this location. The Battenkill is the regional groundwater discharge point in this area.

The former above ground heating oil tank had a 10,000 gallon capacity. It was situated in an above ground crib with a concrete floor. The tank had been surrounded with soil to insulate it from freezing temperatures which caused the oil to congeal.

According to the Surficial Geologic Map of Vermont, the overburden in the vicinity of the subject property consists of glacial outwash and fluvial gravel. This was confirmed during installation of monitoring wells as part of the subsurface investigation. Bedrock beneath the site consists of siliceous dolomite, according to the Geologic Map of Vermont.

### 3.0 INVESTIGATIVE PROCEDURES

#### 3.1 Monitoring Well Installation/Soil Analysis

On June 24, 1991, five (5) groundwater monitoring wells were installed on the former Manchester Wood property (see Site Map, in Appendix A, for well locations). The wells were installed by Frost Well Drilling using air rotary drilling methods, under the direct supervision of the Griffin hydrogeologist. The wells were installed to collect data which has been used to determine the degree and extent of subsurface contamination and the risk that the contamination is posing to the Battenkill.

Each well extends to an approximate depth of 12.5 feet below grade. The wells are constructed of ten feet of two inch diameter, PVC well screen and two feet of well casing. The annulus between the borehole walls and the well screens are packed with silica sand as a filter media. The top of each gravel pack is sealed with bentonite to prevent surface water from infiltrating the borehole. Each well is protected with a flush mounted, eight inch diameter, bolt down manhole cover, clearly marked "MONITORING WELL".

During installation of the wells, the Griffin hydrogeologist logged drill cuttings as they were expelled from the boreholes. The cuttings were also screened for volatile organic compounds (VOC's) using a PID. Well construction details, soil characteristics and VOC concentrations are listed on detailed well logs, in Appendix B.

The well logs indicate that the overburden at the subject property consists of sand, gravel and cobbles. These deposits likely contain relatively high permeabilities resulting in high rates of groundwater flow beneath the site. The well logs also indicate that no VOC's were detected in the drill cuttings from the five boreholes.

Both MW-1 and MW-3 were installed in locations which had previously been determined to be down gradient of the former heating oil tank. These wells were installed to determine if soil contamination, which had been detected by Mr. Coleman, had migrated to the water table and toward the Battenkill. MW-2 was installed as close to the former location of the heating oil tank as was possible. It is slightly down gradient of the former tank location. This well was installed to determine if the soils beneath the old tank were contaminated. MW-4 was installed as an up gradient well to the old tank. This well was installed to determine if contamination was migrating to the vicinity of the old tank from an upgradient location.

The absence of any detectable concentrations of VOC's in soil samples collected from these four wells indicates that the former heating oil tank had not been leaking. This is consistent with the findings of the Con-Test report. Visual inspection of the tank, which currently is in a salvage yard in Manchester, has revealed no visible holes or corrosion in the tank walls.

MW-5 was installed near the southeast corner of the property. A total concentration of 50 parts per million of petroleum hydrocarbons was detected in a well which had been located in the immediate vicinity of MW-5, but which has since been destroyed. Analysis of water from the former monitoring well was conducted during the November, 1990 subsurface investigation by Con-Test. There were no VOC's detected in the soils collected from the borehole for MW-5, as measured by the PID.

In addition to screening the soils from the monitoring well boreholes for VOC's, Griffin screened samples of mud from the river bank in the area where red staining had originally been observed by Mr. Coleman. The screening was conducted on June 24th and June 28th. On those dates, a heavy green algae bloom, heavy iron bacteria growth and a broken sheen were observed in the vicinity of a seep, along the shore of the Battenkill, to the south of the former heating oil tank. The sheen was typical of those found in wetland environments, and did not resemble a petroleum sheen. Samples of the mud were collected from a depth of approximately six inches below grade. The mud samples contained no VOC's as measured by the PID.

Due to the lack of detectable VOC's in the mud samples, it appears that the iron bacteria and associated sheen is a result of natural biological activity rather than hydrocarbon contamination. Both the iron bacteria and the sheen are common at seepage areas in wetland environments and are likely associated with the green algae bloom.

### 3.2 Determination of Groundwater Flow Direction

On June 28th, 1991, Griffin surveyed the subject property for the preparation of a site map and a groundwater contour map. Included in the survey was the measurement of the elevations of the top of casings of the five monitoring wells and the measurement of the depth to water in each well. The top of casing elevations were surveyed relative to a benchmark on the building

foundation which had previously been determined to be 695.25 feet above sea level. The depths to water in each well were then subtracted from the respective top of casing elevations to determine the water table elevations in each well (see liquid level data in Appendix C). The water table elevations were then used to prepare the Groundwater Contour Map in Appendix A.

The Groundwater Contour Map indicates that the water table beneath the subject property slopes to the south/southwest, at a 0.2% gradient. This indicates that the groundwater beneath the property flows toward the river, as expected. While the gradient is relatively slight, we estimate that groundwater flow rates through the area are relatively high, due to the relatively high estimated permeabilities.

### 3.3 Groundwater Sampling and Analysis

During the June 28th site visit, Griffin personnel collected water samples from each of the five, on-site monitoring wells for laboratory analysis for VOC's and total petroleum hydrocarbons by EPA Methods 624 and 418.1 respectively. In addition, a trip blank, a site blank and a QA/QC duplicate were collected for analysis as per DEC requirements. The laboratory results are listed in Appendix D. MW-6, listed in the laboratory results, is a duplicate of MW-4.

The results of the total petroleum hydrocarbon analyses (418.1) indicate that water from all five on-site monitoring wells contains no detectable concentrations of petroleum hydrocarbons by that method.

The results of the VOC analysis (624) indicate that MW-1, MW-2 and MW-4 contained low concentrations of VOC's on that date. MW-1 contained 14.60 parts per billion (ppb) xylenes and 4.56 ppb MTBE. MW-2 contained 3.90 ppb xylenes. Both of these wells are down gradient of the location of the former heating oil tank. MW-4 contained 4.56 ppb MTBE. This well is up gradient of the former tank.

The State of Vermont Preventative Action Limit for xylenes in groundwater is 200 ppb. At present, there is no established Preventative Action Limit for MTBE, however, the concentrations detected in both MW-1 and MW-4 are generally considered low. Both of these compounds are components of gasoline. Xylenes are also found in heating oil.

Both MW-3 and MW-5 contained no detectable VOC concentrations on the sampling date.

#### 4.0 CONCLUSIONS

Based on a thorough evaluation of the data collected during this investigation, Griffin has arrived at the following conclusions regarding subsurface petroleum contamination at the former Manchester Wood facility:

1. Groundwater in the vicinity of the former, <sup>?</sup>above ground heating oil tank is contaminated with dissolved xylenes and dissolved MTBE. The concentrations of xylenes in the groundwater are well below State of Vermont Preventative Action Limits. Concentrations of MTBE are below generally accepted limits. Groundwater at the southeastern corner of the property, in the vicinity of MW-5, contains no petroleum hydrocarbons, as measured by EPA Method 418.1, and no VOC's, as measured by EPA Method 624.
2. The presence of these contaminants in the three wells near the former heating oil tank may be due to the migration of contamination from a point or nonpoint source located upgradient of the subject property. The presence of MTBE in the groundwater indicates a release of gasoline to the subsurface. The presence of xylenes in this vicinity may be due to a release of heating oil in the vicinity of the tank, or, to an upgradient release of gasoline to the subsurface. It does not appear, however, that the former heating oil tank was leaking prior to its removal from the property.
3. The subsurface at the subject property consists of sand and gravel overburden and dolomite bedrock. The depth to bedrock at this location is unknown. The water table beneath the subject property is at a depth of approximately six to eight feet below grade. Groundwater beneath this property flows south/southeast, toward the Battenkill River, at a 0.2% gradient.
4. Groundwater contamination detected during this investigation presents little, if any, risk to the integrity of the Battenkill River. If the on-site contamination, detected during this investigation, does migrate to the river, it is in such low concentrations that, when it enters the river, it will immediately be diluted to below detectable concentrations.

## 5.0 RECOMMENDATIONS

Based on the above conclusions, Griffin International recommends that, due to the relatively low concentrations of subsurface petroleum contamination detected on this site, no further monitoring or remediation is necessary.

APPENDIX A

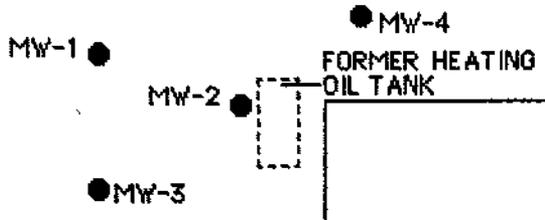
Site Maps



# SITE MAP

PROJECT : MANCHESTER WOOD  
LOCATION : MANCHESTER, VERMONT  
GRIFFIN PROJECT NO. : 691419  
MONITORING DATE :

● GROUNDWATER MONITORING WELL



MANCHESTER  
SQUARE  
BUILDING B

BUILDING A

MW-5 ●

BATTENKILL RIVER

ROUTES 11 & 30



RICHVILLE ROAD

# GROUNDWATER CONTOUR MAP

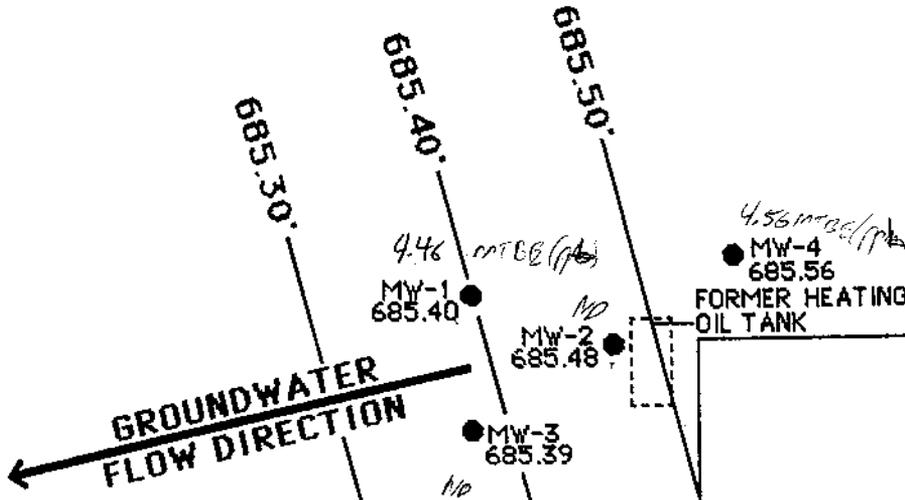
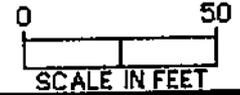
PROJECT : MANCHESTER WOOD  
LOCATION : MANCHESTER, VERMONT  
GRIFFIN PROJECT NO. : 691419  
MONITORING DATE : 7/15/91

● GROUNDWATER MONITORING WELL

WELL IDENTIFICATION:

MW-1 - WELL I.D.

685.40 - WATER TABLE ELEVATION IN FEET ABOVE SEA LEVEL



← GROUNDWATER FLOW DIRECTION

MANCHESTER SQUARE BUILDING B

BUILDING A

BATTENKILL RIVER

ROUTES 11 & 30

RICHVILLE ROAD

APPENDIX B

Well Logs

PROJECT MANCHESTER WOOD

LOCATION MANCHESTER, VERMONT

DATE DRILLED 6/24/91 TOTAL DEPTH OF HOLE 12.5'

DIAMETER 6"

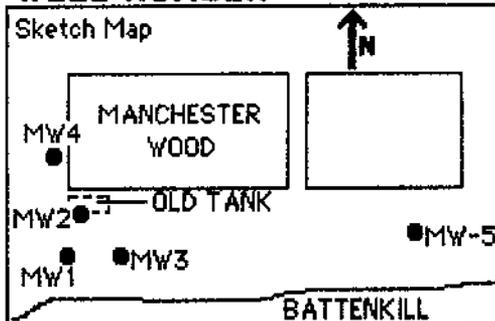
SCREEN DIA. 2" LENGTH 10' SLOT SIZE .020"

CASING DIA. 2" LENGTH 2' TYPE PVC

DRILLING CO. FROST DRILLING METHOD HOLLOW STEM AUGER

DRILLER JODY LOG BY P. MURRAY

WELL NUMBER MW-1



| DEPTH IN FEET | WELL CONSTRUCTION | NOTES       | BLOWS PER 6" OF SPOON | DESCRIPTION / SOIL CLASSIFICATION (COLOR, TEXTURE, STRUCTURES) |
|---------------|-------------------|-------------|-----------------------|--|
| 0             |                   | ROAD BOX    |                       |  |
| 1             |                   | WELL CAP    |                       |  |
| 2             |                   | CONCRETE    |                       |  |
| 2             |                   | WELL CASING |                       | Medium to coarse SAND, some silt, rounded gravel, few cobbles  |
| 2             |                   | BENTONITE   |                       |  |
| 3             |                   |             |                       |  |
| 4             |                   |             |                       | NO PETROLEUM VAPORS DETECTED                                   |
| 5             |                   |             |                       |  |
| 5             |                   | WELL SCREEN |                       |  |
| 6             |                   |             |                       | WATER TABLE ▼  |
| 7             |                   |             |                       |  |
| 7             |                   | GRAVEL PACK |                       | Wet, medium to coarse SAND, some silt and gravel, few cobbles  |
| 8             |                   |             |                       |  |
| 8             |                   |             |                       | NO PETROLEUM VAPORS DETECTED                                   |
| 9             |                   |             |                       |  |
| 10            |                   |             |                       |  |
| 11            |                   |             |                       |  |
| 12            |                   | BOTTOM PLUG |                       |  |
| 13            |                   |             |                       | BASE OF EXPLORATION AT 12.5'                                   |
| 14            |                   |             |                       |  |
| 15            |                   |             |                       |  |
| 16            |                   |             |                       |  |
| 17            |                   |             |                       |  |
| 18            |                   |             |                       |  |
| 19            |                   |             |                       |  |
| 20            |                   |             |                       |  |
| 21            |                   |             |                       |  |
| 22            |                   |             |                       |  |
| 23            |                   |             |                       |  |
| 24            |                   |             |                       |  |
| 25            |                   |             |                       |  |
| 26            |                   |             |                       |  |

PROJECT MANCHESTER WOOD

LOCATION MANCHESTER, VERMONT

DATE DRILLED 6/24/91 TOTAL DEPTH OF HOLE 12.5'

DIAMETER 6"

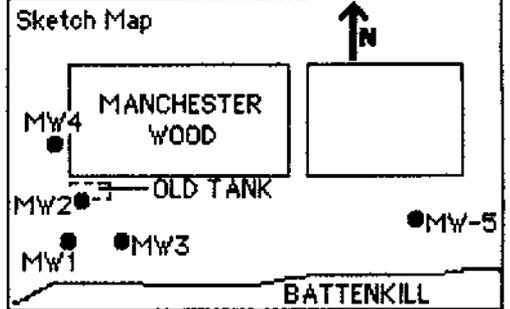
SCREEN DIA. 2" LENGTH 10' SLOT SIZE .020"

CASING DIA. 2" LENGTH 2' TYPE PVC

DRILLING CO. FROST DRILLING METHOD HOLLOW STEM AUGER

DRILLER JODY LOG BY P. MURRAY

WELL NUMBER MW-2



| DEPTH IN FEET | WELL CONSTRUCTION | NOTES       | BLOWS PER 6" OF SPOON | DESCRIPTION / SOIL CLASSIFICATION (COLOR, TEXTURE, STRUCTURES)        |
|---------------|-------------------|-------------|-----------------------|---|
| 0             |                   | ROAD BOX    |                       |   |
| 1             |                   | WELL CAP    |                       |   |
| 1             |                   | CONCRETE    |                       |   |
| 2             |                   | WELL CASING |                       |   |
| 2             |                   | BENTONITE   |                       |   |
| 3             |                   |             |                       | Fine to coarse SAND, some fine to medium, rounded gravel, little silt |
| 4             |                   |             |                       | NO PETROLEUM VAPORS DETECTED  |
| 5             |                   |             |                       |   |
| 6             |                   | WELL SCREEN |                       |   |
| 7             |                   |             |                       | WATER TABLE ▼   |
| 8             |                   | GRAVEL PACK |                       | Wet, fine to medium SAND, some silt and gravel                        |
| 9             |                   |             |                       | NO PETROLEUM VAPORS DETECTED  |
| 10            |                   |             |                       |   |
| 11            |                   |             |                       |   |
| 12            |                   | BOTTOM PLUG |                       |   |
| 13            |                   |             |                       | BASE OF EXPLORATION AT 12.5'  |
| 14            |                   |             |                       |   |
| 15            |                   |             |                       |   |
| 16            |                   |             |                       |   |
| 17            |                   |             |                       |   |
| 18            |                   |             |                       |   |
| 19            |                   |             |                       |   |
| 20            |                   |             |                       |   |
| 21            |                   |             |                       |   |
| 22            |                   |             |                       |   |
| 23            |                   |             |                       |   |
| 24            |                   |             |                       |   |
| 25            |                   |             |                       |   |
| 26            |                   |             |                       |   |

PROJECT MANCHESTER WOOD

LOCATION MANCHESTER, VERMONT

DATE DRILLED 6/24/91 TOTAL DEPTH OF HOLE 12.5'

DIAMETER 6"

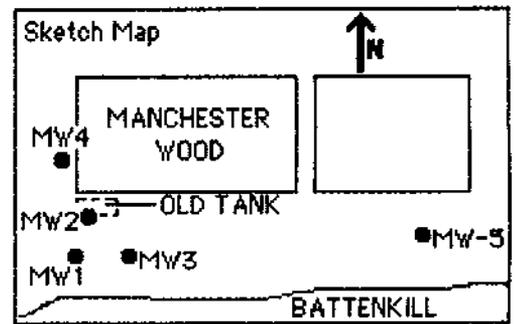
SCREEN DIA. 2" LENGTH 10' SLOT SIZE .020"

CASING DIA. 2" LENGTH 2' TYPE PVC

DRILLING CO. FROST DRILLING METHOD HOLLOW STEM AUGER

DRILLER JODY LOG BY P. MURRAY

WELL NUMBER MW-3



| DEPTH IN FEET | WELL CONSTRUCTION | NOTES       | BLOWS PER 6" OF SPOON | DESCRIPTION / SOIL CLASSIFICATION (COLOR, TEXTURE, STRUCTURES)             |
|---------------|-------------------|-------------|-----------------------|--|
| 0             |                   | ROAD BOX    |                       |  |
| 1             |                   | WELL CAP    |                       |  |
| 2             |                   | CONCRETE    |                       |  |
| 2             |                   | WELL CASING |                       |  |
| 2             |                   | BENTONITE   |                       |  |
| 3             |                   |             |                       | Fine to coarse, silty SAND and fine to coarse, rounded GRAVEL, few cobbles |
| 4             |                   |             |                       |  |
| 5             |                   |             |                       | NO PETROLEUM VAPORS DETECTED   |
| 6             |                   | WELL SCREEN |                       |  |
| 6             |                   |             |                       | WATER TABLE ▼  |
| 7             |                   |             |                       |  |
| 8             |                   | GRAVEL PACK |                       | Wet, fine to coarse SAND and SILT, some fine to coarse gravel, few cobbles |
| 9             |                   |             |                       |  |
| 10            |                   |             |                       | NO PETROLEUM VAPORS DETECTED   |
| 11            |                   |             |                       |  |
| 12            |                   | BOTTOM PLUG |                       |  |
| 13            |                   |             |                       | BASE OF EXPLORATION AT 12.5'   |
| 14            |                   |             |                       |  |
| 15            |                   |             |                       |  |
| 16            |                   |             |                       |  |
| 17            |                   |             |                       |  |
| 18            |                   |             |                       |  |
| 19            |                   |             |                       |  |
| 20            |                   |             |                       |  |
| 21            |                   |             |                       |  |
| 22            |                   |             |                       |  |
| 23            |                   |             |                       |  |
| 24            |                   |             |                       |  |
| 25            |                   |             |                       |  |
| 26            |                   |             |                       |  |

PROJECT MANCHESTER WOOD

LOCATION MANCHESTER, VERMONT

DATE DRILLED 6/24/91 TOTAL DEPTH OF HOLE 12.5'

DIAMETER 6"

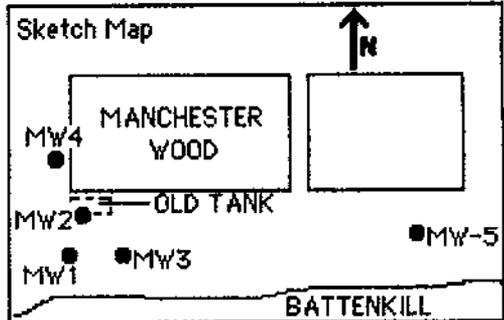
SCREEN DIA. 2" LENGTH 10' SLOT SIZE .020"

CASING DIA. 2" LENGTH 2' TYPE PVC

DRILLING CO. FROST DRILLING METHOD HOLLOW STEM AUGER

DRILLER JODY LOG BY P. MURRAY

WELL NUMBER MW-4



| DEPTH IN FEET | WELL CONSTRUCTION | NOTES       | BLOWS PER 6" OF SPOON | DESCRIPTION / SOIL CLASSIFICATION (COLOR, TEXTURE, STRUCTURES)                     |
|---------------|-------------------|-------------|-----------------------|--|
| 0             |                   | ROAD BOX    |                       |  |
| 0             |                   | WELL CAP    |                       |  |
| 1             |                   | CONCRETE    |                       |  |
| 1             |                   | WELL CASING |                       |  |
| 2             |                   | BENTONITE   |                       |  |
| 3             |                   |             |                       | Fine to coarse SAND, some fine to coarse, rounded GRAVEL, few cobbles, little silt |
| 4             |                   |             |                       | NO PETROLEUM VAPORS DETECTED   |
| 5             |                   |             |                       |  |
| 6             |                   | WELL SCREEN |                       |  |
| 7             |                   |             |                       |  |
| 8             |                   | GRAVEL PACK |                       | WATER TABLE ▼  |
| 9             |                   |             |                       | Wet, fine to coarse SAND, some silt and fine to coarse gravel, few cobbles         |
| 10            |                   |             |                       | NO PETROLEUM VAPORS DETECTED   |
| 11            |                   |             |                       |  |
| 12            |                   | BOTTOM PLUG |                       | BASE OF EXPLORATION AT 12.5'   |
| 13            |                   |             |                       |  |
| 14            |                   |             |                       |  |
| 15            |                   |             |                       |  |
| 16            |                   |             |                       |  |
| 17            |                   |             |                       |  |
| 18            |                   |             |                       |  |
| 19            |                   |             |                       |  |
| 20            |                   |             |                       |  |
| 21            |                   |             |                       |  |
| 22            |                   |             |                       |  |
| 23            |                   |             |                       |  |
| 24            |                   |             |                       |  |
| 25            |                   |             |                       |  |
| 26            |                   |             |                       |  |

PROJECT MANCHESTER WOOD

LOCATION MANCHESTER, VERMONT

DATE DRILLED 6/24/91 TOTAL DEPTH OF HOLE 12.5'

DIAMETER 6"

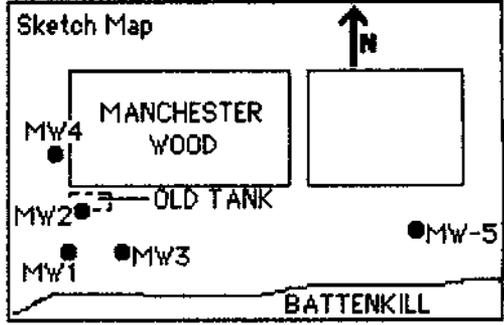
SCREEN DIA. 2" LENGTH 10' SLOT SIZE .020"

CASING DIA. 2" LENGTH 2' TYPE PVC

DRILLING CO. FROST DRILLING METHOD HOLLOW STEM AUGER

DRILLER JODY LOG BY P. MURRAY

WELL NUMBER MW-5



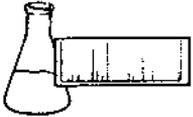
| DEPTH IN FEET | WELL CONSTRUCTION | NOTES       | BLOWS PER 6" OF SPOON | DESCRIPTION / SOIL CLASSIFICATION (COLOR, TEXTURE, STRUCTURES)   |
|---------------|-------------------|-------------|-----------------------|--|
| 0             |                   | ROAD BOX    |                       |  |
| 0.5           |                   | WELL CAP    |                       |  |
| 1             |                   | CONCRETE    |                       |  |
| 1.5           |                   | WELL CASING |                       |  |
| 2             |                   | BENTONITE   |                       | Fine to coarse SAND, SILT and fine to coarse GRAVEL, few cobbles |
| 3             |                   |             |                       | NO PETROLEUM VAPORS DETECTED                                     |
| 4             |                   |             |                       |  |
| 5             |                   |             |                       |  |
| 5.5           |                   | WELL SCREEN |                       |  |
| 6             |                   |             |                       | WATER TABLE ▼  |
| 7             |                   |             |                       | Wet SAND, SILT and GRAVEL, few cobbles                           |
| 8             |                   | GRAVEL PACK |                       | NO PETROLEUM VAPORS DETECTED                                     |
| 9             |                   |             |                       |  |
| 10            |                   |             |                       |  |
| 11            |                   |             |                       |  |
| 12            |                   | BOTTOM PLUG |                       |  |
| 13            |                   |             |                       | BASE OF EXPLORATION AT 12.5'                                     |
| 14            |                   |             |                       |  |
| 15            |                   |             |                       |  |
| 16            |                   |             |                       |  |
| 17            |                   |             |                       |  |
| 18            |                   |             |                       |  |
| 19            |                   |             |                       |  |
| 20            |                   |             |                       |  |
| 21            |                   |             |                       |  |
| 22            |                   |             |                       |  |
| 23            |                   |             |                       |  |
| 24            |                   |             |                       |  |
| 25            |                   |             |                       |  |
| 26            |                   |             |                       |  |

APPENDIX C  
Liquid Level Data



APPENDIX D

Laboratory Results



**ENDYNE, INC.**

RECEIVED JUL 11 1991

Laboratory Services

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

LABORATORY REPORT

TOTAL HYDROCARBONS - EPA METHOD 418.1

CLIENT: Griffin International  
REPORT DATE: July 9, 1991  
PROJECT NAME: Job 691459  
DATE SAMPLED: June 30, 1991  
DATE RECEIVED: July 1, 1991  
DATE ANALYZED: July 2, 1991  
SAMPLER: Peter Schuyler

| <u>Reference number</u> | <u>Concentration (mg/L)<sup>1</sup></u> |
|-------------------------|---|
| 21,014                  | <0.8                                    |
| 21,015                  | <0.8                                    |
| 21,016                  | <0.8                                    |
| 21,017                  | <0.8                                    |
| 21,018                  | <0.8                                    |
| 21,019                  | <0.8                                    |
| 21,020                  | <0.8                                    |
| 21,021                  | <0.8                                    |

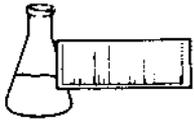
Sample ID:

21,014: MW1; 9:35 a.m.  
21,015: MW2; 9:57 a.m.  
21,016: MW3; 9:09 a.m.  
21,017: MW4; 9:37 a.m.  
21,018: MW5; 10:20 a.m.  
21,019: MW6; 10:00 a.m. Dup MW 4  
21,020: Trip blank; not indicated  
21,021: Equipment blank; 9:20 a.m.

Notes:

1 Method detection limit is 0.8 ppm

Reviewed by Suzanne Herschke



**ENDYNE, INC.**

Laboratory Services

32 James Brown Drive  
Williston, Vermont 05495  
(802) 879-4333  
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LABORATORY REPORT

EPA METHOD 624 -- GC/MS PURGEABLES

CLIENT: Griffin International

PROJECT NAME: Job 691459

REPORT DATE: July 11, 1991

SAMPLER: Peter Schuyler

DATE SAMPLED: June 30, 1991

DATE RECEIVED: July 1, 1991

ANALYSIS DATE: July 5, 1991

STATION: MW 1

REF. #: 21,006

TIME SAMPLED: 9:40

| <u>Parameter</u>          | <u>Minimum Detection Limit</u> | <u>Concentration (ug/L)</u> |
|---------------------------|--------------------------------|-----------------------------|
| Benzene                   | 2.                             | TBQ <sup>1</sup>            |
| Bromodichloromethane      | 4.                             | ND <sup>2</sup>             |
| Bromoform                 | 1.                             | ND                          |
| Bromomethane              | 2.                             | ND                          |
| Carbon tetrachloride      | 2.                             | ND                          |
| Chlorobenzene             | 1.                             | ND                          |
| Chloroethane              | 1.                             | ND                          |
| 2-Chloroethylvinyl ether  | *                              | ND                          |
| Chloroform                | 2.                             | ND                          |
| Chloromethane             | 6.                             | ND                          |
| Dibromochloromethane      | 2.                             | ND                          |
| 1,2-Dichlorobenzene       | 2.                             | ND                          |
| 1,3-Dichlorobenzene       | 2.                             | ND                          |
| 1,4-Dichlorobenzene       | 1.                             | ND                          |
| 1,1-Dichloroethane        | 1.                             | ND                          |
| 1,2-Dichloroethane        | 1.                             | ND                          |
| 1,1-Dichloroethene        | 2.                             | ND                          |
| trans-1,2-Dichloroethene  | 2.                             | ND                          |
| 1,2-Dichloropropane       | 1.                             | ND                          |
| cis-1,3-Dichloropropene   | 2.                             | ND                          |
| trans-1,3-Dichloropropene | 3.                             | ND                          |
| Ethylbenzene              | 3.                             | ND                          |
| Methylene Chloride        | 1.                             | ND                          |
| 1,1,2,2-Tetrachloroethane | 3.                             | ND                          |
| Tetrachloroethene         | 2.                             | ND                          |
| Toluene                   | 2.                             | ND                          |
| 1,1,1-Trichloroethane     | 2.                             | ND                          |
| 1,1,2-Trichloroethane     | 2.                             | ND                          |
| Trichloroethene           | 2.                             | ND                          |
| Trichlorofluoromethane    | 2.                             | ND                          |
| Vinyl Chloride            | 3.                             | ND                          |
| Xylenes                   | 5.                             | 14.6                        |
| MTBE                      | 2.                             | 4.56                        |

NUMBER OF UNIDENTIFIED PEAKS FOUND: 0

NOTES:

- 1 Trace below quantitation limits
- 2 None detected

Reviewed by Suzanne Gernsbehl



**ENDYNE, INC.**

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32 James Brown Drive  
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LABORATORY REPORT

EPA METHOD 624 -- GC/MS PURGEABLES

CLIENT: Griffin International

PROJECT NAME: Job 691459

REPORT DATE: July 11, 1991

ANALYSIS DATE: July 5, 1991

SAMPLER: Peter Schuyler

STATION: MW 2

DATE SAMPLED: June 30, 1991

REF. #: 21,007

DATE RECEIVED: July 1, 1991

TIME SAMPLED: 10:00

| <u>Parameter</u>          | <u>Minimum Detection Limit</u> | <u>Concentration (ug/L)</u> |
|---------------------------|--------------------------------|-----------------------------|
| Benzene                   | 2.                             | ND <sup>1</sup>             |
| Bromodichloromethane      | 4.                             | ND                          |
| Bromoform                 | 1.                             | ND                          |
| Bromomethane              | 2.                             | ND                          |
| Carbon tetrachloride      | 2.                             | ND                          |
| Chlorobenzene             | 1.                             | ND                          |
| Chloroethane              | 1.                             | ND                          |
| 2-Chloroethylvinyl ether  | *                              | ND                          |
| Chloroform                | 2.                             | ND                          |
| Chloromethane             | 6.                             | ND                          |
| Dibromochloromethane      | 2.                             | ND                          |
| 1,2-Dichlorobenzene       | 2.                             | ND                          |
| 1,3-Dichlorobenzene       | 2.                             | ND                          |
| 1,4-Dichlorobenzene       | 1.                             | ND                          |
| 1,1-Dichloroethane        | 1.                             | ND                          |
| 1,2-Dichloroethane        | 1.                             | ND                          |
| 1,1-Dichloroethene        | 2.                             | ND                          |
| trans-1,2-Dichloroethene  | 2.                             | ND                          |
| 1,2-Dichloropropane       | 1.                             | ND                          |
| cis-1,3-Dichloropropene   | 2.                             | ND                          |
| trans-1,3-Dichloropropene | 3.                             | ND                          |
| Ethylbenzene              | 3.                             | ND                          |
| Methylene Chloride        | 1.                             | ND                          |
| 1,1,2,2-Tetrachloroethane | 3.                             | ND                          |
| Tetrachloroethene         | 2.                             | ND                          |
| Toluene                   | 2.                             | ND                          |
| 1,1,1-Trichloroethane     | 2.                             | ND                          |
| 1,1,2-Trichloroethane     | 2.                             | ND                          |
| Trichloroethene           | 2.                             | ND                          |
| Trichlorofluoromethane    | 2.                             | ND                          |
| Vinyl Chloride            | 3.                             | ND                          |
| Xylenes                   | 5.                             | 3.90                        |
| MTBE                      | 2.                             | ND                          |

NUMBER OF UNIDENTIFIED PEAKS FOUND: 0

NOTES:

1 None detected

Reviewed by Suzanne Fenske



**ENDYNE, INC.**

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Laboratory Services

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Williston, Vermont 05495  
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LABORATORY REPORT

EPA METHOD 624 -- GC/MS PURGEABLES

CLIENT: Griffin International

PROJECT NAME: Job 691459

REPORT DATE: July 11, 1991

ANALYSIS DATE: July 5, 1991

SAMPLER: Peter Schuyler

STATION: MW 3

DATE SAMPLED: June 30, 1991

REF. #: 21,008

DATE RECEIVED: July 1, 1991

TIME SAMPLED: 9:12

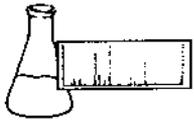
| <u>Parameter</u>          | <u>Minimum Detection Limit</u> | <u>Concentration (ug/L)</u> |
|---------------------------|--------------------------------|-----------------------------|
| Benzene                   | 2.                             | ND <sup>1</sup>             |
| Bromodichloromethane      | 4.                             | ND                          |
| Bromoform                 | 1.                             | ND                          |
| Bromomethane              | 2.                             | ND                          |
| Carbon tetrachloride      | 2.                             | ND                          |
| Chlorobenzene             | 1.                             | ND                          |
| Chloroethane              | 1.                             | ND                          |
| 2-Chloroethylvinyl ether  | *                              | ND                          |
| Chloroform                | 2.                             | ND                          |
| Chloromethane             | 6.                             | ND                          |
| Dibromochloromethane      | 2.                             | ND                          |
| 1,2-Dichlorobenzene       | 2.                             | ND                          |
| 1,3-Dichlorobenzene       | 2.                             | ND                          |
| 1,4-Dichlorobenzene       | 1.                             | ND                          |
| 1,1-Dichloroethane        | 1.                             | ND                          |
| 1,2-Dichloroethane        | 1.                             | ND                          |
| 1,1-Dichloroethene        | 2.                             | ND                          |
| trans-1,2-Dichloroethene  | 2.                             | ND                          |
| 1,2-Dichloropropane       | 1.                             | ND                          |
| cis-1,3-Dichloropropene   | 2.                             | ND                          |
| trans-1,3-Dichloropropene | 3.                             | ND                          |
| Ethylbenzene              | 3.                             | ND                          |
| Methylene Chloride        | 1.                             | ND                          |
| 1,1,2,2-Tetrachloroethane | 3.                             | ND                          |
| Tetrachloroethene         | 2.                             | ND                          |
| Toluene                   | 2.                             | ND                          |
| 1,1,1-Trichloroethane     | 2.                             | ND                          |
| 1,1,2-Trichloroethane     | 2.                             | ND                          |
| Trichloroethene           | 2.                             | ND                          |
| Trichlorofluoromethane    | 2.                             | ND                          |
| Vinyl Chloride            | 3.                             | ND                          |
| Xylenes                   | 5.                             | ND                          |
| MTBE                      | 2.                             | ND                          |

NUMBER OF UNIDENTIFIED PEAKS FOUND: 0

NOTES:

1 None detected

Reviewed by Suzanne Gendahl



**ENDYNE, INC.**

Laboratory Services

32 James Brown Drive  
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LABORATORY REPORT

EPA METHOD 624 -- GC/MS PURGEABLES

CLIENT: Griffin International

PROJECT NAME: Job 691459

REPORT DATE: July 11, 1991

ANALYSIS DATE: July 5, 1991

SAMPLER: Peter Schuyler

STATION: MW 4

DATE SAMPLED: June 30, 1991

REF. #: 21,009

DATE RECEIVED: July 1, 1991

TIME SAMPLED: 9:37

| <u>Parameter</u>          | <u>Minimum Detection Limit</u> | <u>Concentration (ug/L)</u> |
|---------------------------|--------------------------------|-----------------------------|
| Benzene                   | 2.                             | ND <sup>1</sup>             |
| Bromodichloromethane      | 4.                             | ND                          |
| Bromoform                 | 1.                             | ND                          |
| Bromomethane              | 2.                             | ND                          |
| Carbon tetrachloride      | 2.                             | ND                          |
| Chlorobenzene             | 1.                             | ND                          |
| Chloroethane              | 1.                             | ND                          |
| 2-Chloroethylvinyl ether  | *                              | ND                          |
| Chloroform                | 2.                             | ND                          |
| Chloromethane             | 6.                             | ND                          |
| Dibromochloromethane      | 2.                             | ND                          |
| 1,2-Dichlorobenzene       | 2.                             | ND                          |
| 1,3-Dichlorobenzene       | 2.                             | ND                          |
| 1,4-Dichlorobenzene       | 1.                             | ND                          |
| 1,1-Dichloroethane        | 1.                             | ND                          |
| 1,2-Dichloroethane        | 1.                             | ND                          |
| 1,1-Dichloroethene        | 2.                             | ND                          |
| trans-1,2-Dichloroethene  | 2.                             | ND                          |
| 1,2-Dichloropropane       | 1.                             | ND                          |
| cis-1,3-Dichloropropene   | 2.                             | ND                          |
| trans-1,3-Dichloropropene | 3.                             | ND                          |
| Ethylbenzene              | 3.                             | ND                          |
| Methylene Chloride        | 1.                             | ND                          |
| 1,1,2,2-Tetrachloroethane | 3.                             | ND                          |
| Tetrachloroethene         | 2.                             | ND                          |
| Toluene                   | 2.                             | ND                          |
| 1,1,1-Trichloroethane     | 2.                             | ND                          |
| 1,1,2-Trichloroethane     | 2.                             | ND                          |
| Trichloroethene           | 2.                             | ND                          |
| Trichlorofluoromethane    | 2.                             | ND                          |
| Vinyl Chloride            | 3.                             | ND                          |
| Xylenes                   | 5.                             | ND                          |
| MTBE                      | 2.                             | 4.56                        |

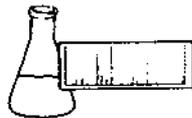
NUMBER OF UNIDENTIFIED PEAKS FOUND: 0

NOTES:

1 None detected

Reviewed by Suzanne Handell

RECEIVED JUL 11 1991



**ENDYNE, INC.**

Laboratory Services

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LABORATORY REPORT

EPA METHOD 624 -- GC/MS PURGEABLES

CLIENT: Griffin International

PROJECT NAME: Job 691459

REPORT DATE: July 11, 1991

SAMPLER: Peter Schuyler

DATE SAMPLED: June 30, 1991

DATE RECEIVED: July 1, 1991

ANALYSIS DATE: July 5, 1991

STATION: MW 6 *DUP MW 4*

REF. #: 21,011

TIME SAMPLED: 9:37

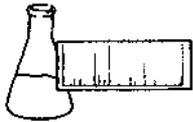
| <u>Parameter</u>          | <u>Minimum Detection Limit</u> | <u>Concentration (ug/L)</u> |
|---------------------------|--------------------------------|-----------------------------|
| Benzene                   | 2.                             | ND <sup>1</sup>             |
| Bromodichloromethane      | 4.                             | ND                          |
| Bromoform                 | 1.                             | ND                          |
| Bromomethane              | 2.                             | ND                          |
| Carbon tetrachloride      | 2.                             | ND                          |
| Chlorobenzene             | 1.                             | ND                          |
| Chloroethane              | 1.                             | ND                          |
| 2-Chloroethylvinyl ether  | *                              | ND                          |
| Chloroform                | 2.                             | ND                          |
| Chloromethane             | 6.                             | ND                          |
| Dibromochloromethane      | 2.                             | ND                          |
| 1,2-Dichlorobenzene       | 2.                             | ND                          |
| 1,3-Dichlorobenzene       | 2.                             | ND                          |
| 1,4-Dichlorobenzene       | 1.                             | ND                          |
| 1,1-Dichloroethane        | 1.                             | ND                          |
| 1,2-Dichloroethane        | 1.                             | ND                          |
| 1,1-Dichloroethene        | 2.                             | ND                          |
| trans-1,2-Dichloroethene  | 2.                             | ND                          |
| 1,2-Dichloropropane       | 1.                             | ND                          |
| cis-1,3-Dichloropropene   | 2.                             | ND                          |
| trans-1,3-Dichloropropene | 3.                             | ND                          |
| Ethylbenzene              | 3.                             | ND                          |
| Methylene Chloride        | 1.                             | ND                          |
| 1,1,2,2-Tetrachloroethane | 3.                             | ND                          |
| Tetrachloroethene         | 2.                             | ND                          |
| Toluene                   | 2.                             | ND                          |
| 1,1,1-Trichloroethane     | 2.                             | ND                          |
| 1,1,2-Trichloroethane     | 2.                             | ND                          |
| Trichloroethene           | 2.                             | ND                          |
| Trichlorofluoromethane    | 2.                             | ND                          |
| Vinyl Chloride            | 3.                             | ND                          |
| Xylenes                   | 5.                             | ND                          |
| MTBE                      | 2.                             | 2.94                        |

NUMBER OF UNIDENTIFIED PEAKS FOUND: 0

NOTES:

1 None detected

Reviewed by Suzanne Gendron



**ENDYNE, INC.**

RECEIVED JUL 11 1991

Laboratory Services

32 James Brown Drive  
Williston, Vermont 05495  
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LABORATORY REPORT

EPA METHOD 624 -- GC/MS PURGEABLES

CLIENT: Griffin International

PROJECT NAME: Job 691459

REPORT DATE: July 11, 1991

ANALYSIS DATE: July 5, 1991

SAMPLER: Peter Schuyler

STATION: MW 5

DATE SAMPLED: June 30, 1991

REF. #: 21,010

DATE RECEIVED: July 1, 1991

TIME SAMPLED: 10:25

| <u>Parameter</u>          | <u>Minimum Detection Limit</u> | <u>Concentration (ug/L)</u> |
|---------------------------|--------------------------------|-----------------------------|
| Benzene                   | 2.                             | ND <sup>1</sup>             |
| Bromodichloromethane      | 4.                             | ND                          |
| Bromoform                 | 1.                             | ND                          |
| Bromomethane              | 2.                             | ND                          |
| Carbon tetrachloride      | 2.                             | ND                          |
| Chlorobenzene             | 1.                             | ND                          |
| Chloroethane              | 1.                             | ND                          |
| 2-Chloroethylvinyl ether  | *                              | ND                          |
| Chloroform                | 2.                             | ND                          |
| Chloromethane             | 6.                             | ND                          |
| Dibromochloromethane      | 2.                             | ND                          |
| 1,2-Dichlorobenzene       | 2.                             | ND                          |
| 1,3-Dichlorobenzene       | 2.                             | ND                          |
| 1,4-Dichlorobenzene       | 1.                             | ND                          |
| 1,1-Dichloroethane        | 1.                             | ND                          |
| 1,2-Dichloroethane        | 1.                             | ND                          |
| 1,1-Dichloroethene        | 2.                             | ND                          |
| trans-1,2-Dichloroethene  | 2.                             | ND                          |
| 1,2-Dichloropropane       | 1.                             | ND                          |
| cis-1,3-Dichloropropene   | 2.                             | ND                          |
| trans-1,3-Dichloropropene | 3.                             | ND                          |
| Ethylbenzene              | 3.                             | ND                          |
| Methylene Chloride        | 1.                             | ND                          |
| 1,1,2,2-Tetrachloroethane | 3.                             | ND                          |
| Tetrachloroethene         | 2.                             | ND                          |
| Toluene                   | 2.                             | ND                          |
| 1,1,1-Trichloroethane     | 2.                             | ND                          |
| 1,1,2-Trichloroethane     | 2.                             | ND                          |
| Trichloroethene           | 2.                             | ND                          |
| Trichlorofluoromethane    | 2.                             | ND                          |
| Vinyl Chloride            | 3.                             | ND                          |
| Xylenes                   | 5.                             | ND                          |
| MTBE                      | 2.                             | ND                          |

NUMBER OF UNIDENTIFIED PEAKS FOUND: 0

NOTES:

1 None detected

Reviewed by

*Suzanne Therschl*

RECEIVED JUL 11 1991



# ENDYNE, INC.

Laboratory Services

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

## LABORATORY REPORT

### EPA METHOD 624 -- GC/MS PURGEABLES

CLIENT: Griffin International

PROJECT NAME: Job 691459

REPORT DATE: July 11, 1991

ANALYSIS DATE: July 5, 1991

SAMPLER: Peter Schuyler

STATION: Trip Blank

DATE SAMPLED: June 30, 1991

REF. #: 21,012

DATE RECEIVED: July 1, 1991

TIME SAMPLED: Not Indicated

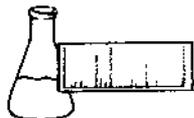
| <u>Parameter</u>          | <u>Minimum Detection Limit</u> | <u>Concentration (ug/L)</u> |
|---------------------------|--------------------------------|-----------------------------|
| Benzene                   | 2.                             | ND <sup>1</sup>             |
| Bromodichloromethane      | 4.                             | ND                          |
| Bromoform                 | 1.                             | ND                          |
| Bromomethane              | 2.                             | ND                          |
| Carbon tetrachloride      | 2.                             | ND                          |
| Chlorobenzene             | 1.                             | ND                          |
| Chloroethane              | 1.                             | ND                          |
| 2-Chloroethylvinyl ether  | *                              | ND                          |
| Chloroform                | 2.                             | ND                          |
| Chloromethane             | 6.                             | ND                          |
| Dibromochloromethane      | 2.                             | ND                          |
| 1,2-Dichlorobenzene       | 2.                             | ND                          |
| 1,3-Dichlorobenzene       | 2.                             | ND                          |
| 1,4-Dichlorobenzene       | 1.                             | ND                          |
| 1,1-Dichloroethane        | 1.                             | ND                          |
| 1,2-Dichloroethane        | 1.                             | ND                          |
| 1,1-Dichloroethene        | 2.                             | ND                          |
| trans-1,2-Dichloroethene  | 2.                             | ND                          |
| 1,2-Dichloropropane       | 1.                             | ND                          |
| cis-1,3-Dichloropropene   | 2.                             | ND                          |
| trans-1,3-Dichloropropene | 3.                             | ND                          |
| Ethylbenzene              | 3.                             | ND                          |
| Methylene Chloride        | 1.                             | ND                          |
| 1,1,2,2-Tetrachloroethane | 3.                             | ND                          |
| Tetrachloroethene         | 2.                             | ND                          |
| Toluene                   | 2.                             | ND                          |
| 1,1,1-Trichloroethane     | 2.                             | ND                          |
| 1,1,2-Trichloroethane     | 2.                             | ND                          |
| Trichloroethene           | 2.                             | ND                          |
| Trichlorofluoromethane    | 2.                             | ND                          |
| Vinyl Chloride            | 3.                             | ND                          |
| Xylenes                   | 5.                             | ND                          |
| MTBE                      | 2.                             | ND                          |

NUMBER OF UNIDENTIFIED PEAKS FOUND: 0

NOTES:

1 None detected

Reviewed by



RECEIVED 11/17/91  
**ENDYNE, INC.**

Laboratory Services

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

LABORATORY REPORT

EPA METHOD 624 -- GC/MS PURGEABLES

CLIENT: Griffin International

PROJECT NAME: Job 691459

REPORT DATE: July 11, 1991

SAMPLER: Peter Schuyler

DATE SAMPLED: June 30, 1991

DATE RECEIVED: July 1, 1991

ANALYSIS DATE: July 5, 1991

STATION: Equipment Blank

REF. #: 21,013

TIME SAMPLED: 9:20

| <u>Parameter</u>          | <u>Minimum Detection Limit</u> | <u>Concentration (ug/L)</u> |
|---------------------------|--------------------------------|-----------------------------|
| Benzene                   | 2.                             | ND <sup>1</sup>             |
| Bromodichloromethane      | 4.                             | ND                          |
| Bromoform                 | 1.                             | ND                          |
| Bromomethane              | 2.                             | ND                          |
| Carbon tetrachloride      | 2.                             | ND                          |
| Chlorobenzene             | 1.                             | ND                          |
| Chloroethane              | 1.                             | ND                          |
| 2-Chloroethylvinyl ether  | *                              | ND                          |
| Chloroform                | 2.                             | ND                          |
| Chloromethane             | 6.                             | ND                          |
| Dibromochloromethane      | 2.                             | ND                          |
| 1,2-Dichlorobenzene       | 2.                             | ND                          |
| 1,3-Dichlorobenzene       | 2.                             | ND                          |
| 1,4-Dichlorobenzene       | 1.                             | ND                          |
| 1,1-Dichloroethane        | 1.                             | ND                          |
| 1,2-Dichloroethane        | 1.                             | ND                          |
| 1,1-Dichloroethene        | 2.                             | ND                          |
| trans-1,2-Dichloroethene  | 2.                             | ND                          |
| 1,2-Dichloropropane       | 1.                             | ND                          |
| cis-1,3-Dichloropropene   | 2.                             | ND                          |
| trans-1,3-Dichloropropene | 3.                             | ND                          |
| Ethylbenzene              | 3.                             | ND                          |
| Methylene Chloride        | 1.                             | ND                          |
| 1,1,2,2-Tetrachloroethane | 3.                             | ND                          |
| Tetrachloroethene         | 2.                             | ND                          |
| Toluene                   | 2.                             | ND                          |
| 1,1,1-Trichloroethane     | 2.                             | ND                          |
| 1,1,2-Trichloroethane     | 2.                             | ND                          |
| Trichloroethene           | 2.                             | ND                          |
| Trichlorofluoromethane    | 2.                             | ND                          |
| Vinyl Chloride            | 3.                             | ND                          |
| Xylenes                   | 5.                             | ND                          |
| MTBE                      | 2.                             | ND                          |

NUMBER OF UNIDENTIFIED PEAKS FOUND: 0

NOTES:

1 None detected

Reviewed by

Suzanne Fendahl