

OCT 18 1995



October 12, 1995

Mr. Michael W. Young  
Agency of Natural Resources  
DEC, Hazardous Materials Management Division  
103 South Main Street / West Building  
Waterbury, Vermont 05671-0404

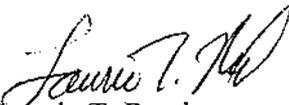
RE: Report on the Investigation of Subsurface Petroleum Contamination and  
Limited Corrective Action Feasibility at  
Midway Mobil, Rutland, Vermont (VTDEC Site # 95-1879)

Dear Mr. Young:

Enclosed, please find the report on the Investigation of Subsurface Petroleum Contamination and  
Limited Corrective Action Feasibility at the above referenced site.

If you have any questions regarding the report or if I can be of assistance to you, please call me at  
(802) 865-4288.

Sincerely,

  
Laurie T. Reed,  
Project Geologist

c. Frank Trombetta, Midway Oil Co.

**REPORT ON THE INVESTIGATION OF SUBSURFACE  
PETROLEUM CONTAMINATION AND LIMITED  
CORRECTIVE ACTION FEASIBILITY**

**AT**

**MIDWAY MOBIL  
118 SOUTH MAIN STREET - ROUTE 7  
RUTLAND, VERMONT**

**VTDEC SITE #95-1879**

**October 4, 1995**

**PREPARED FOR:**

**Midway Oil Company  
PO Box 8  
Rutland, Vermont**



**Griffin International Inc.  
PO Box 943 / 19 Commerce Street  
Williston, VT 05495  
(802) 865-4288**

**Griffin Project #9954717**

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## **I. INTRODUCTION**

This report describes the investigation of subsurface petroleum contamination at Midway Mobil located at 118 South Main Street (Route 7) in the City of Rutland, Vermont. This investigation was conducted by Griffin International Inc. (Griffin) for Midway Oil Company of Rutland, Vermont, owner of the site.

This investigation was initiated after subsurface petroleum contamination was discovered at the site during the removal of nine underground storage tanks (USTs) on September 11 through 13, 1995. The USTs were located in two separate locations as indicated on the attached Site Map, Appendix A. Free product was present in both UST excavations. Most of the free product was recovered with a vac-truck at the time of the removal of the USTs. The degree and extent of contamination was not fully defined during the removal of the USTs. Approximately 250 cubic yards of petroleum contaminated soils were backfilled in the UST excavations.

This investigation was initiated by Midway Oil Company through the Site Investigation Expressway Program. An Expressway Notification was submitted to the Vermont Department of Environmental Conservation (VTDEC) with Griffin's UST Closure Report dated September 18, 1995. Site investigation work began at Midway Mobil on September 21, 1995 and was completed on September 27, 1995.

## **II. SITE DESCRIPTION**

The site is located in a mixed commercial, residential, and industrial area on South Main Street (Route 7) in the City of Rutland, Vermont (See Site Location Map in Appendix A.). A filling station has been located at the site for several decades. Gasoline, diesel, kerosene, No. 2 oil, and used oil have been stored in USTs at the site. The Midway Mobil site is currently under significant renovation. The old filling station building has been demolished, and a new building is being erected in approximately the same location. All USTs and associated dispensing equipment have been removed and will soon be replaced with new equipment.

The site gently slopes towards the southwest. This area of the site is at an approximate elevation of 540 feet above sea level. Surface runoff at the site drains to storm sewers on South Main Street and to Moon Brook which is located south of and adjacent to the site. Drainage of the general area flows to Moon Brook which flows generally west to Otter Creek which is located approximately one mile west of the site.

The site is abutted to the north by residential properties. The site is abutted to the south by Moon Brook. A car dealership is located south of the site directly across Moon Brook. The site is abutted to the east by Midway Diner. The site is abutted to the west by South Main Street. Commercial establishments are located west of the site across South Main Street. Nearby buildings are indicated on the Area Map, Appendix A.

The site and surrounding area are supplied by a municipal water system. The site is served by municipal sewer.

### III. INVESTIGATIVE PROCEDURES

To better define the extent of subsurface petroleum contamination at the site, Griffin installed six monitoring wells and eight additional soil borings. MW1 and MW2 were installed in test excavations on September 13, 1995. MW2, MW3, MW4, MW5, and the soil borings were installed on September 21 and September 22, 1995. Soil samples were also collected from several excavations made for footing construction of the new station building.

MW1 is located approximately 20 feet north of Moon Brook and approximately 50 feet down-gradient of the edge of the southern most UST field. MW2 is located approximately 60 feet down-gradient of the former pump island at the western edge of the site next to South Main Street. MW3 is located down-gradient from the former UST field located east of the station building and up-gradient from the former UST field located south of the station building. MW4 is located south and east of the former UST field located south of the former station building. MW5 is located directly down-gradient, west and southwest of the UST field located south of the former station building. MW6 is located directly down-gradient of the former pump island in the direct vicinity of former product supply lines. The locations of the wells are indicated on the Site Map in Appendix A.

Depths to groundwater were measured in all on-site monitoring wells on September 27, 1995. Groundwater samples were collected from the monitoring wells for laboratory analysis on September 27, 1995. Soil samples collected from boreholes and test pits were screened for volatile organic compounds (VOCs) with a photo ionization detector (PID).

#### A. Monitoring Well Installation

Monitoring wells MW1 and MW2 were installed on September 13, 1995 by Griffin. The wells are constructed of four inch diameter, 0.010" slot, PVC well screen and attached solid PVC riser which were placed in test pits excavated by Markowski Excavating of Florence, Vermont.

Monitoring wells (MW3, MW4, MW5, MW6, and SB1 through SB8) were installed on September 21 and September 22, 1995 by Tri State Drilling and Boring of West Burke, Vermont under the direct supervision of Griffin. The wells were installed using a truck mounted 6 1/4" hollow stem auger. The wells are constructed of four inch diameter, 0.020" slot, PVC well screen and attached solid PVC riser. The annulus between the borehole wall and the screened section of each well is filled with sand pack to filter fine sediments in groundwater from entering the well. Approximately one foot above the screened section of each well, the annulus between the borehole wall and the riser is filled with a bentonite clay seal to prevent surface water from entering the borehole. Each well is protected at the surface by a flush mounted steel well head

man-hole with a bolt down cover. Well construction details are listed on the well logs in Appendix B.

## B. Soil Boring and Screening

Undisturbed soil samples were collected at five foot intervals from most of the borings using a split spoon sampling device. The test excavations for MW1 and MW2 were sampled by collecting soil from the excavation using a back hoe. Samples were also collected from the new station building's footing excavation and from the canopy footing excavations located on the east and west sides of the building. Samples were screened for VOCs using an HNU Model PI-101 PID and were logged by the supervising Geologist. Prior to screening, the PID was calibrated with isobutylene with reference made to benzene. Detailed soil descriptions and VOC concentrations are listed on the well logs in Appendix B. Peak VOC concentrations detected in each sample location are plotted on the Soil Contaminant Distribution Map in Appendix A.

Subsurface materials at this site from grade to approximately 5 feet below grade generally consist of random fill. Materials intercepted include fine, medium, and coarse grained sands, silty sands, gravel, cobbles, concrete, wood, organic matter, and other debris. Data from borings indicates the site was formerly a flood plain which was filled. Native soils were generally intersected in borings at a depth of 4 to 5 feet below grade. The native material consists of a sequence of fine sands and silt fining downward to silts with some very fine sand at approximately 10 feet below grade and subsequently to silt with clay and then clay at a depth of approximately 12 feet.

Borings of SB1 through SB8 were terminated due to auger refusal at various depths due to cobbles, boulders, concrete, and pipe.

VOC concentrations detected in the test pit for MW1 peaked at 180 ppm at a depth of 6 feet below grade. The peak VOC concentration was detected near the interface with the water table.

VOC concentrations detected in the test pit for MW2 peaked at 31 ppm at a depth of 7 feet below grade. The peak VOC concentration was detected near the interface with the water table.

Low VOC concentrations (0 to 7.2 ppm) were detected soil samples collected from MW3. No VOC concentrations were detected in the clay collected from the bottom of the boring.

VOC concentrations detected in soil samples collected from MW4 were 110 ppm above the water table and consistently 30 ppm below the water table.

VOC concentrations detected in soil samples collected from MW5 ranged from 128 ppm to >200 ppm. The highest VOC concentration was detected near the interface with the water table.

VOC concentrations detected in soil samples collected from MW6 ranged from 1.0 to >200 ppm. All samples collected from above a depth of 11.5 feet had VOC concentrations higher than 150 ppm as indicated by PID. A VOC concentration of only 1.0 ppm was detected in the clay intersected at the bottom of the boring of MW6.

VOC concentrations detected in SB1 through SB8 ranged from 65 ppm to 220 ppm. All samples from these borings were collected from above the water table.

Screening of soil samples collected at depths ranging from 4 to 5 feet below grade from foundation footing excavations indicate the following: Very low concentrations of VOCs were detected in most samples collected from the new station building footing excavation with the exception of the south east corner of the excavation where a VOC concentration of 100 ppm was detected. A VOC concentration of 55 ppm was detected in the canopy footing excavation located off the southeast corner of the new station building. A VOC concentration of 3.0 ppm was detected in the canopy footing 20 feet north of this area.

Groundwater was present in several locations in this building foundation footing excavation; no product or petroleum sheens were evident in these areas. Groundwater present in the canopy footing excavation of the southeast corner of the new building exhibited a heavy sheen. No product or sheens were evident in the canopy footing excavation 20 feet north of this area on the east side of the new station building. No groundwater was present in the excavations made for canopy footings on the west side of the building.

#### C. Water Table Measurements And Groundwater Flow

The water table elevations in all on-site monitoring wells were measured on September 27, 1995. The water table at the site is generally 5 to 6 feet below the surface. Water table elevations are plotted on the Groundwater Contour Map in Appendix A. The map indicates that groundwater in the vicinity of the site flows southwest. The average hydraulic gradient at the site is calculated to be approximately 5.0 percent down-gradient from the former UST fields. The hydraulic gradient appears to be significantly shallower up-gradient from MW4 and MW6.

No free product was detected in any of the monitoring wells. All groundwater level data are recorded on the Liquid Level Table in Appendix C.

#### D. Groundwater and Surface water Sampling and Analysis

On September 27, 1995, Griffin collected groundwater samples from all of the on-site monitoring wells. Laboratory results are summarized below in Table 1 and plotted and contoured on the Contaminant Distribution Map in Appendix A. Laboratory report forms are presented in Appendix D. All collected samples were analyzed according to EPA Method 602 which tests for the presence of VOCs including the petroleum compounds benzene, toluene, ethyl benzene, xylenes, and methyl tertiary butyl ether (MTBE) which is an octane boosting additive. All

TABLE 1.

**Groundwater Quality Summary  
Midway Mobil  
Rutland, Vermont**

**Monitoring Date: 9/27/95**

Analysis via EPA Method 602. All Values Reported in ug/L (ppb).

PARAMETER	Site Monitoring Wells							Enforcement Standard
	MW1	MW2	MW3	MW4	MW5	MW6	RW	
Benzene	365.	4.2	ND>1	598.	3,300.	865.	162.	5.0*
Ethylbenzene	795.	7.2	ND>1	546.	2,520.	1,580.	126.	700**
Toluene	378.	5.5	ND>1	484.	8,480.	5,490.	186.	1,000**
Xylenes	8,490.	150.	ND>1	1,950.	13,500.	9,570.	2,400.	10,000**
Total BTEX	10,028.	167.		3,578.	27,800.	17,505.	2,874.	-
MTBE	ND>1000	52.8	ND>10	1,630.	ND>1000	ND>500	TBQ<500	40**
BTEX+MTBE	10,028.	220.		5,208.	27,800.	17,505.	2,874.	-

PARAMETER	"Moon Brook" Surface Water		
	Upper	Middle	Lower
Benzene	ND>1	ND>1	ND>1
Ethylbenzene	ND>1	ND>1	ND>1
Toluene	ND>1	ND>1	ND>1
Xylenes	ND>1	ND>1	ND>1
Total BTEX			
MTBE	ND>10	ND>10	ND>10
BTEX+MTBE			

\* - EPA Maximum Contaminant Level ND> - None Detected Above Stated Limits

\*\* - VT Health Advisory Level

TBQ< - Trace, below Stated quantitation limits

samples were collected according to Griffin's Groundwater or Surface Water Sampling Protocols. Duplicate, trip blank, and equipment blank samples collected during the sampling indicate that adequate quality assurance/quality control was maintained during sample collection and analysis.

Analysis of the groundwater sample collected from MW1, down-gradient from the former UST fields near Moon Brook, indicates the presence of benzene and ethyl benzene in concentrations exceeding the Vermont Groundwater Enforcement Standard (VGES) or Health Advisory Levels (HALS) for the compounds.

Analysis of the groundwater sample collected from MW2, located down-gradient from the former pump islands, indicates the presence of MTBE above the HAL for the compound. Benzene, ethyl benzene, toluene and xylenes were detected in the groundwater sample collected from MW2 in concentrations below applicable groundwater enforcement standards.

Analysis of the groundwater sample collected from MW3, located down-gradient from the former tank field located east of the station building, indicates no petroleum compounds detected above method detection limits.

Analysis of the groundwater sample collected from MW4, located east and south of the former tank field located south of the station building, indicates benzene and MTBE in concentrations exceeding VGES and/or HALs for the compounds. Ethyl benzene, toluene, and xylenes were detected in concentrations below the applicable groundwater enforcement standards for the compounds.

Analysis of the groundwater sample collected from MW5, located directly down-gradient from the tank field located south of the former station building, indicates benzene, toluene, ethyl benzene, and xylenes in concentrations exceeding VGES and/or HALs for the compounds.

Analysis of the groundwater sample collected from MW6, located directly down-gradient from the former pump island, indicates benzene, ethyl benzene, and toluene in concentrations exceeding VGES and/or HALs for the compounds. Xylenes were detected in concentration slightly below the HAL for the compound.

Three surface water samples were collected from Moon Brook. One sample was collected upstream from the site property boundary to assess background contaminant concentrations. One sample was collected downstream from the site to assess contaminant concentrations downstream. One sample was collected directly southwest of MW1 to determine if significant impact to the stream was occurring. No target petroleum compounds were detected in any of the surface water samples.

#### **IV. RECEPTOR SURVEY AND RISK ASSESSMENT**

Griffin conducted a visual survey of the site to identify local potential receptors of subsurface petroleum contaminants.

The new Midway Mobil building is being constructed on a concrete slab and is not likely to be impacted by petroleum vapors from the subsurface. Residences and commercial buildings with basements, located north and east of the site are not at risk of impact from petroleum vapors from Midway Mobil, since all of these buildings are significantly up-gradient from the site.

All of the nearby industrial and commercial buildings located down-gradient from the site are of slab-on-grade construction. Considering the buildings construction, the distance from the contaminant source, and the depth of the water table in the vicinity of the site, it is not likely that the buildings or occupants of the buildings will be effected by petroleum vapors originating from Midway Mobil or from groundwater contamination originating from the site.

Municipal water and sewer serves the area including the subject property. The water source is not at risk of impact from subsurface petroleum contamination at the subject property. No supply wells were identified in the vicinity of the site. There is some potential for underground utilities in the vicinity of the southwest corner of the property to act as preferential pathways for groundwater flow. The only significant affect of this process may be to redirect the plume in a more southerly direction under South Main Street.

The Moon Brook flows by the leading edge of the dissolved VOC plume and is likely a receptor of petroleum contaminated water from the site. Water samples collected from the brook indicates no measurable impact from subsurface petroleum contamination at the site is occurring. No other visual evidence of petroleum contamination to the Moon Brook was evident. It is likely that dissolved petroleum contamination in groundwater flowing into the brook is immediately diluted to below detectable concentrations.

## **V. CORRECTIVE ACTION FEASIBILITY**

Griffin conducted a limited Corrective Action Feasibility Study at this site to determine if the site was conducive to soil vapor extraction, so if warranted, expedient decisions regarding corrective action could be made.

On September 27, 1995 a soil vapor extraction pilot test was conducted. The test demonstrates that soil vapor extraction would be effective at this site to recover hydrocarbons from the 5 to 6 foot thick vadose zone. Based on the data collected, it is calculated that approximately 5,000 cubic yards of petroleum contaminated soils are present at the site between the surface and approximately 12 feet below grade where a clay confining layer has restricted vertical migration of contaminants. Of this, approximately 2,500 cubic yards of this soil in the vadose zone can potentially be remediated by soil vapor extraction. The remaining portion of the soil below the water table can not be directly remediated by soil vapor extraction without dewatering. Due to the restrictive nature of the silts in the saturated zone, dewatering this site would likely require an extensive array of interconnected drainage trench systems and up-gradient grout curtains.

Two separate pilot tests were conducted. Data collected is tabulated and the projected effective radius of influence is plotted in Appendix E. MW5 and MW6 were each used as vent wells. Each test was conducted by applying measured vacuum to the vent well with a 1 hp vacuum blower. Vacuums of 5", 15", and 45" of H<sup>2</sup>O were applied to the vent well. The flow rate and VOC concentrations were recorded along with induced vacuums at all other on-site monitoring wells for each applied vacuum increment. Effluent from the test was treated with a carbon adsorption filter.

The test of MW5 yielded more meaningful data than the test on MW6, because the area around MW5 and between MW5 and satellite points was paved. The area around MW6 and north of MW6 was unpaved and resulted in a high air flow into the subsurface from these areas.

A vacuum of 45" of H<sup>2</sup>O applied to MW5 resulted in 0.25" of induced vacuum at radius of 30 feet and a flow rate of approximately 50 cubic feet per minute (cfm) from the vent well at a high VOC concentration not accurately measurable with an H-NU Model PI-101 PID.

Analysis of the pilot test data indicates that a 300 cfm soil vapor extraction system with 6 vent points should be optimal for hydrocarbon recovery in the vadose zone.

## **VI. CONCLUSIONS**

On the basis of this investigation, Griffin has concluded the following:

- 1) There have been releases of petroleum products at this site. The amounts and durations of the release are unknown.
- 2) The sources of the releases were likely from leaking USTs and piping and from UST overfills over a long period. All USTs and ancillary equipment have been removed and are being replaced with modern equipment.
- 3) The subsurface materials at this site consist of random fill materials to a depth of 4 to 5 feet below grade. These materials have been filled on the former flood plain of the Moon Brook. Native materials below the fill consists of a fining downward sequence of silts and fine sands underlain by silts and subsequently by clay at a depth of approximately 12 feet below grade. The water table is contained in a relatively narrow horizon which extends from approximately 6 feet below grade to the top of the clay at approximately 12 feet below grade. The groundwater flows towards the southwest at a gradient of less than 1.0 percent across most of the site and then becomes steeper, approximately 5.0 percent near Moon Brook at the southwest corner of the site.
- 4) Free product at the site was discovered during the removal of the USTs. It is likely that most of the No. 2 oil free product observed during the removal of the USTs was released from USTs at that time. Most of this product was recovered with a vac-truck. A heavy petroleum sheen was observed in the canopy footing excavation located off the southeast

corner of the building. This footing is in the former UST field where No. 2 oil was recovered. No free product was detected during monitoring well installation or during groundwater sampling.

5) The releases of petroleum product at this site have resulted in the contamination of approximately 5,000 cubic yards of soils which are present above and below the water table. The releases have also resulted in groundwater contamination. Groundwater in the vicinity of and down-gradient from the tank field is impacted by petroleum compounds in concentrations above applicable groundwater enforcement standards. The groundwater contaminant plume extends down-gradient from the former tank fields and dispenser islands to the Moon Brook and South Main Street southwest of the site. Petroleum contamination extends vertically to a depth of 12 to 13 feet below grade where a clay confining formation is present.

6) No sensitive receptors other than groundwater were found to have been impacted from subsurface contamination at the Midway Mobil. No measurable or visual impact to the Moon Brook was indicated.

7) If no additional releases occur, dissolved petroleum compounds in groundwater and absorbed petroleum compounds in soil will be gradually reduced by attenuation and dilution.

## **VII. RECOMMENDATIONS**

On the basis of the above conclusions, Griffin recommends the following:

1) Since no sensitive receptors (except groundwater) appear to be impacted, and since there does not appear to be any significant risk to human health or the environment from the subsurface petroleum contamination at Midway Mobil, active remediation is not currently recommended at the site.

2) Because of the amount of free product which was present at the site during the removal of the USTs and due to the proximity of the site to Moon Brook, the site monitoring wells should be gauged monthly to determine if free product has been effectively recovered. If no free product is detected in site monitoring wells by Summer, 1996, monthly well gauging should be discontinued.

3) Because of the presence of petroleum compounds which exceed applicable groundwater enforcement standards in monitoring wells at the site, the monitoring wells and Moon Brook should be sampled on a bi-annual basis to establish a trend of groundwater quality improvement at Midway Mobil.

**APPENDIX A**

SITE LOCATION MAP

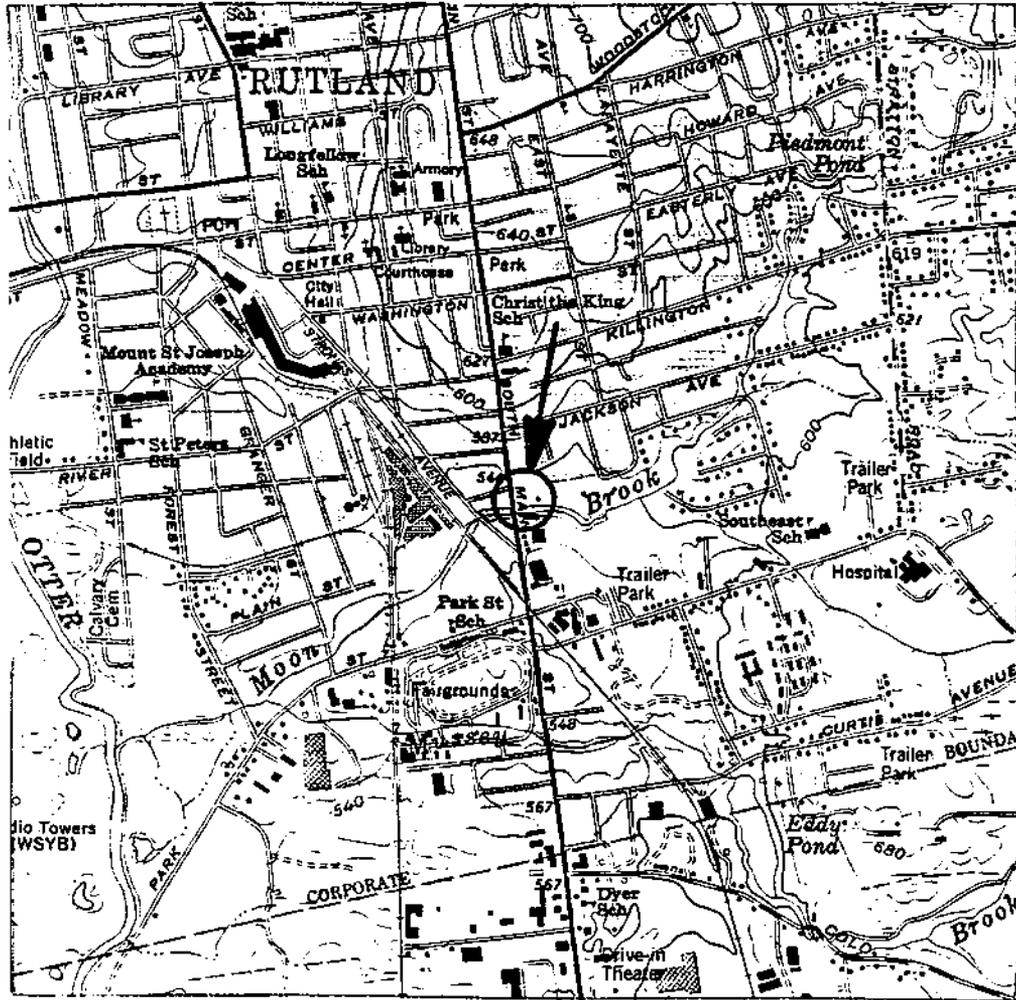
AREA MAP

SITE MAP

GROUNDWATER CONTOUR MAP

GROUNDWATER CONTAMINANT DISTRIBUTION MAP

SOIL CONTAMINANT DISTRIBUTION MAP



JOB #: 7954717  
 SOURCE: USGS- RUTLAND, VERMONT QUADRANGLE

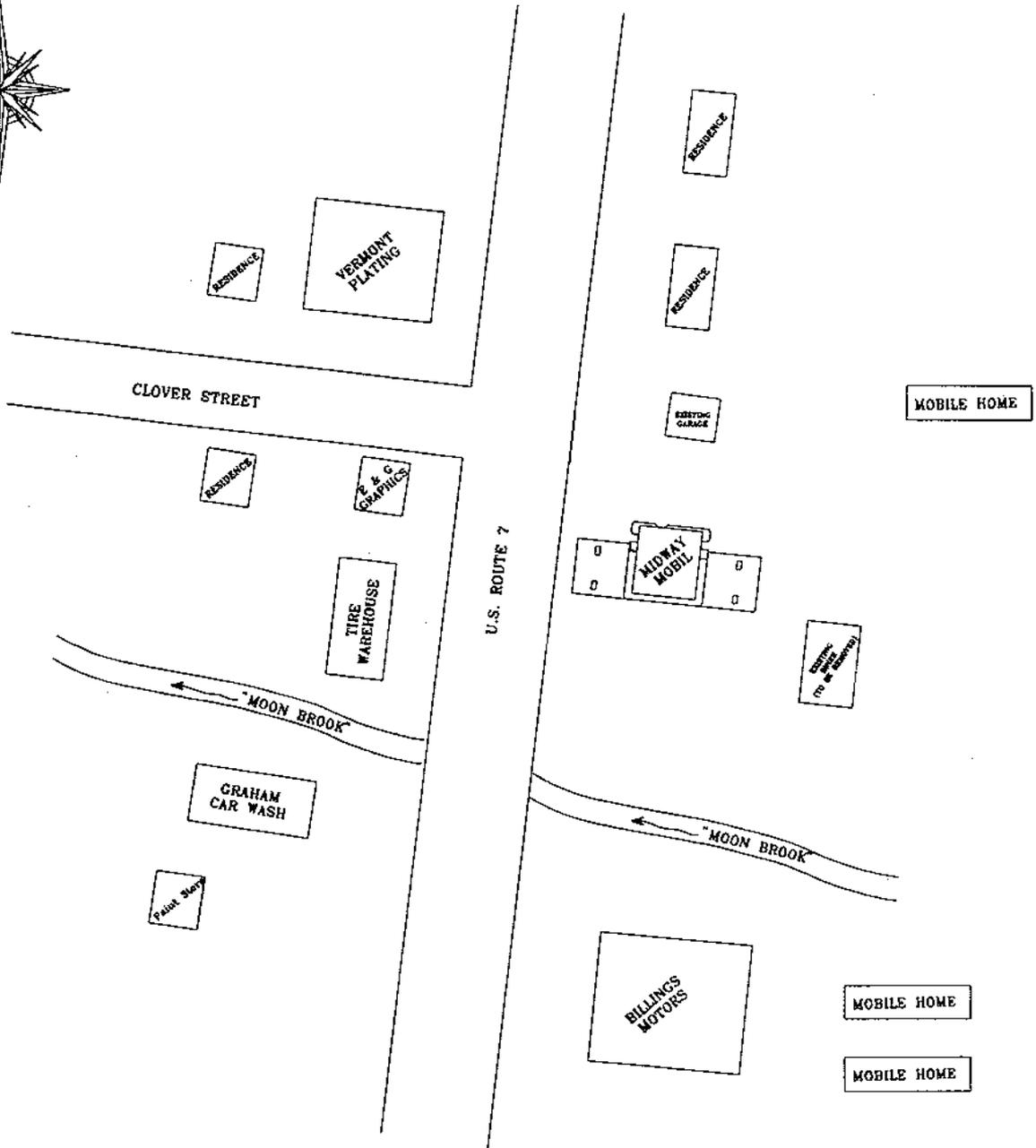
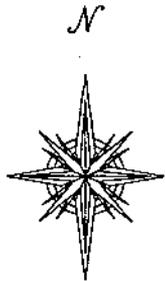


MIDWAY MOBIL

RUTLAND, VERMONT

SITE LOCATION MAP

DATE: 9/28/95	DWG. #: 1	SCALE: 1:24000	DRN.: SB	APP.: LR
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NOTE: SITE PLAN OBTAINED FROM FIELD DATA.

JOB #: 7954717



MIDWAY MOBIL

RUTLAND,

VERMONT

AREA MAP

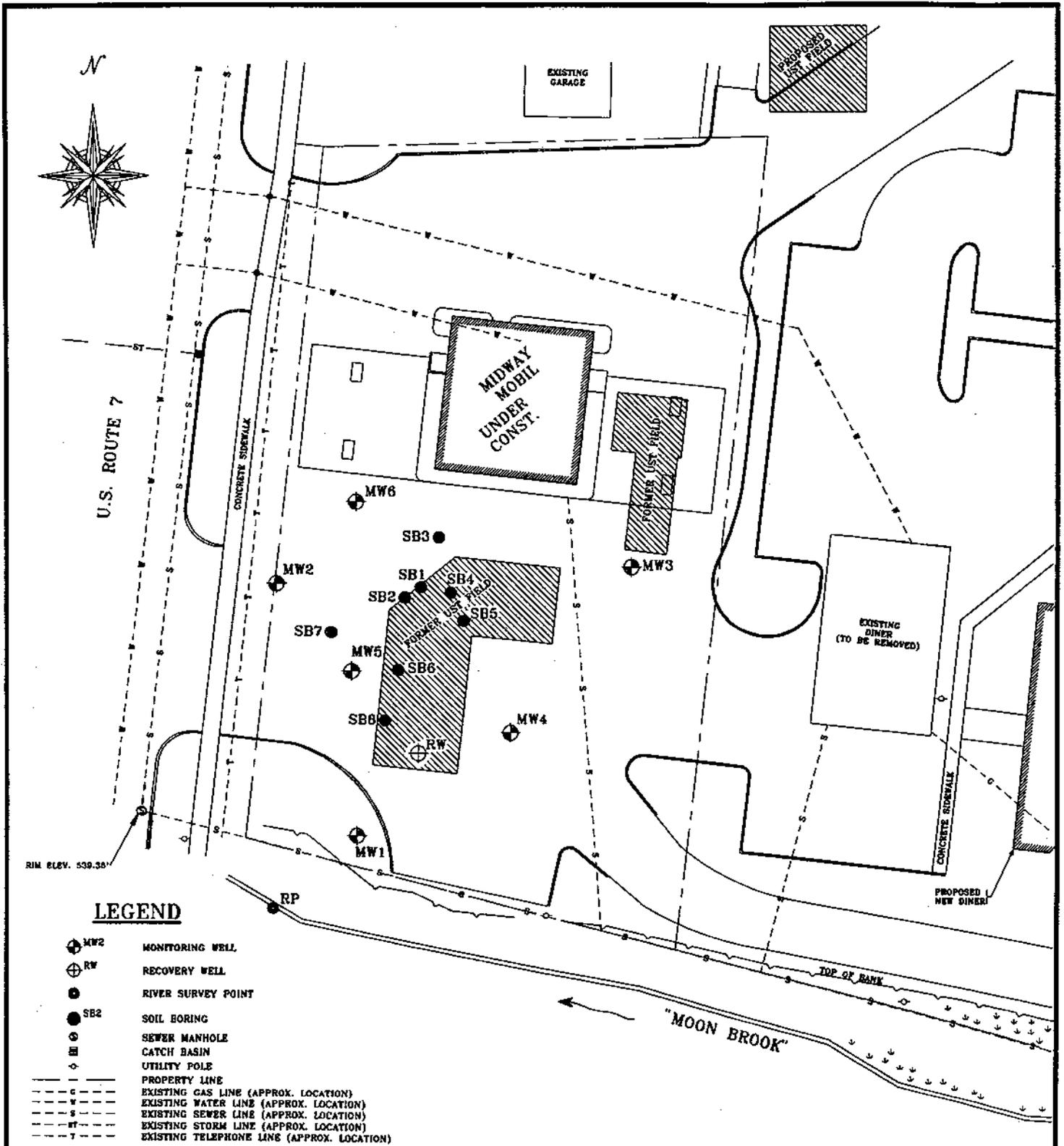
DATE: 10/2/95

DWG.#: 2

SCALE: NONE

DRN.:SB

APP.:LR



**LEGEND**

- ⊕ MW2 MONITORING WELL
- ⊕ RW RECOVERY WELL
- RIVER SURVEY POINT
- SB2 SOIL BORING
- ⊙ SEWER MANHOLE
- ⊞ CATCH BASIN
- ◇ UTILITY POLE
- PROPERTY LINE
- - - EXISTING GAS LINE (APPROX. LOCATION)
- - - EXISTING WATER LINE (APPROX. LOCATION)
- - - EXISTING SEWER LINE (APPROX. LOCATION)
- - - EXISTING STORM LINE (APPROX. LOCATION)
- - - EXISTING TELEPHONE LINE (APPROX. LOCATION)

NOTE: SITE PLAN OBTAINED FROM ARONSON & OLSON, INC. CIVIL ENGINEERS DATED 4/7/95.



JOB #: 7954717

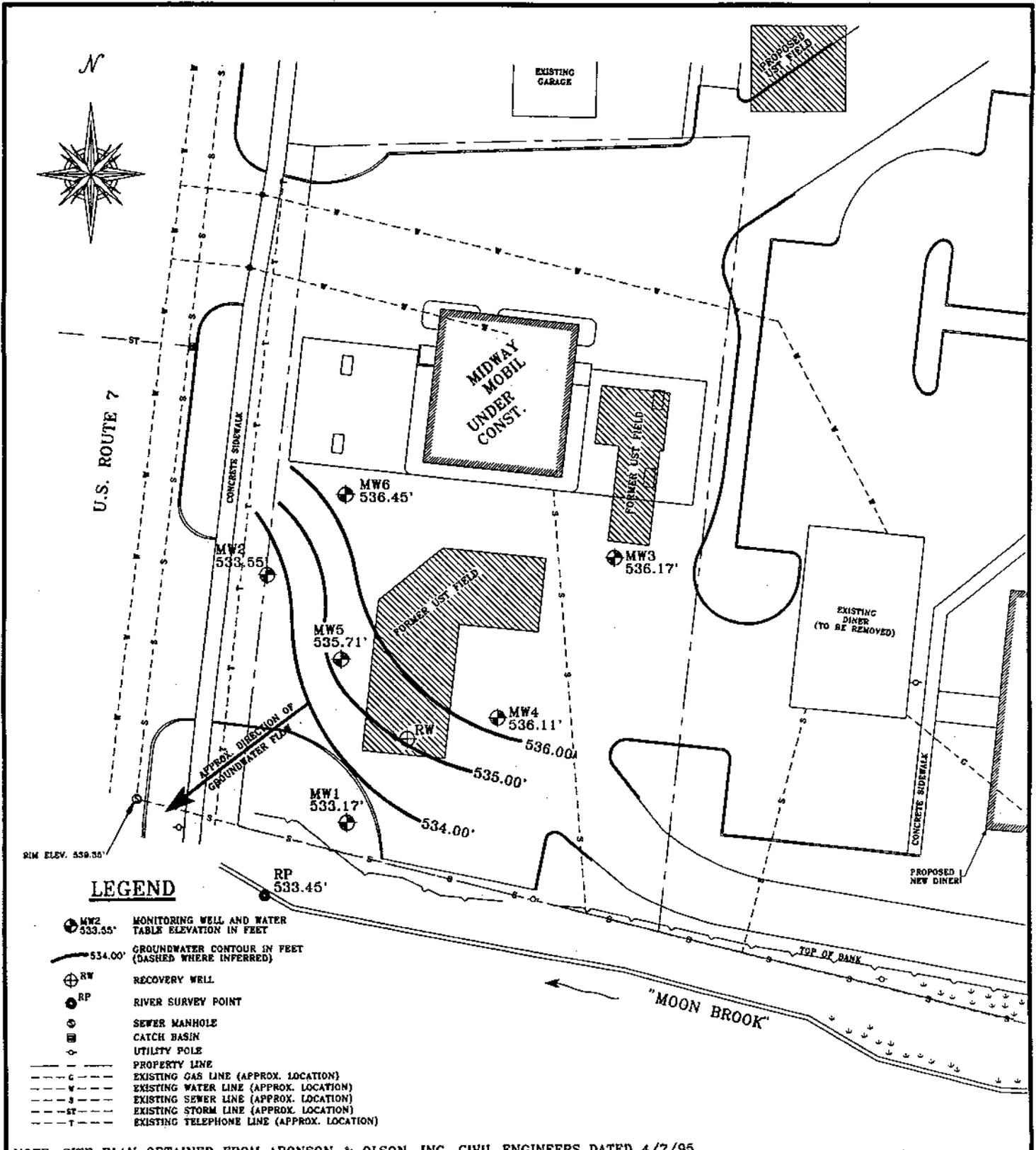
**MIDWAY MOBIL**

RUTLAND,

VERMONT

**SITE MAP**

DATE: 9/28/95    DWG.#: 3    SCALE: 1"=40'    DRN.:SB    APP.:LR



NOTE: SITE PLAN OBTAINED FROM ARONSON & OLSON, INC. CIVIL ENGINEERS DATED 4/7/95.



JOB #: 7954717

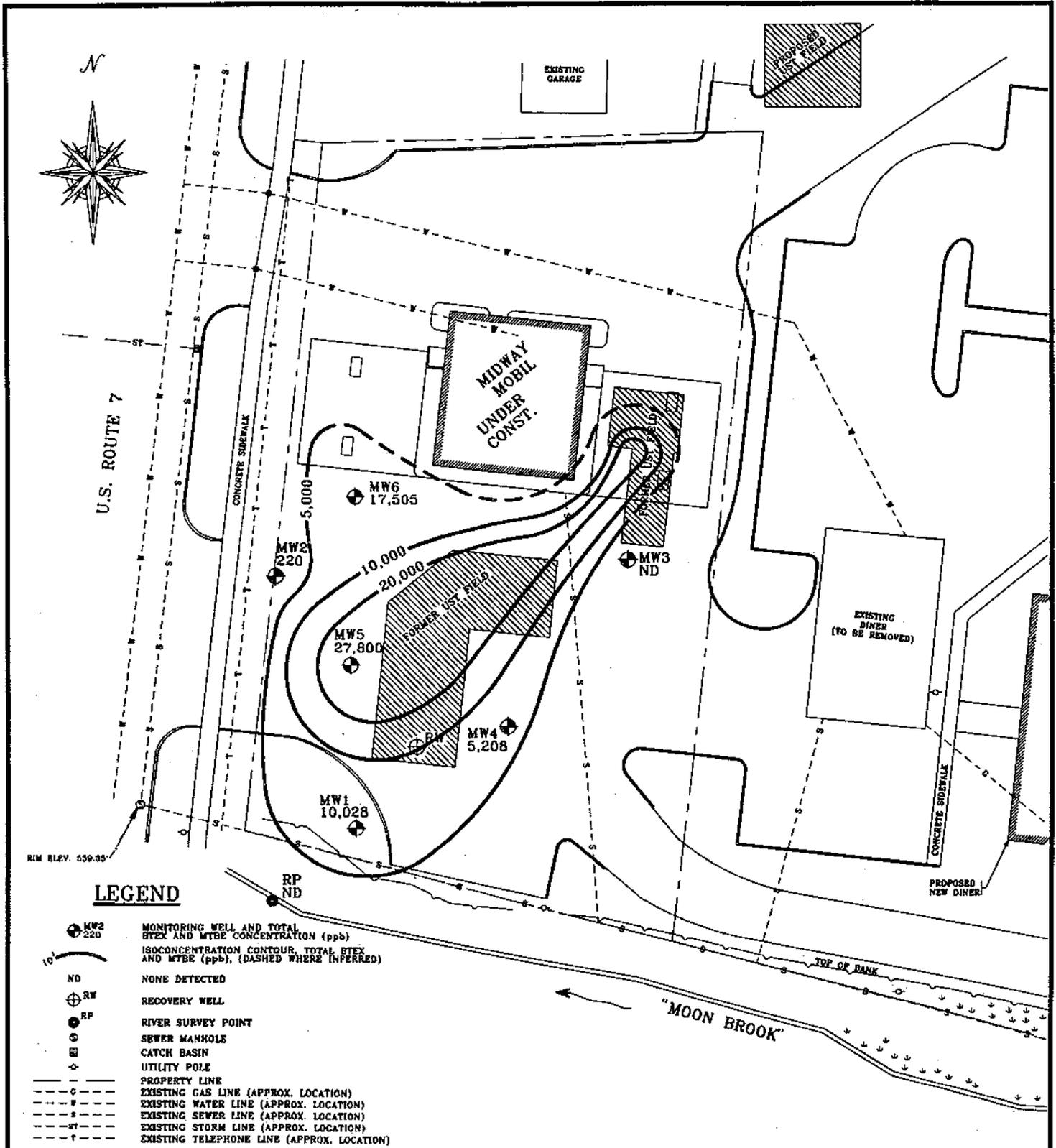
# MIDWAY MOBIL

RUTLAND, VERMONT

## GROUNDWATER CONTOUR MAP

DATE MEASURED: 9/27/95

DATE: 10/2/95	DWG.#: 4	SCALE: 1"=40'	DRN..SB	APP..LR
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JOB #: 7954717



# MIDWAY MOBIL

RUTLAND,

VERMONT

CONTAMINANT DISTRIBUTION MAP

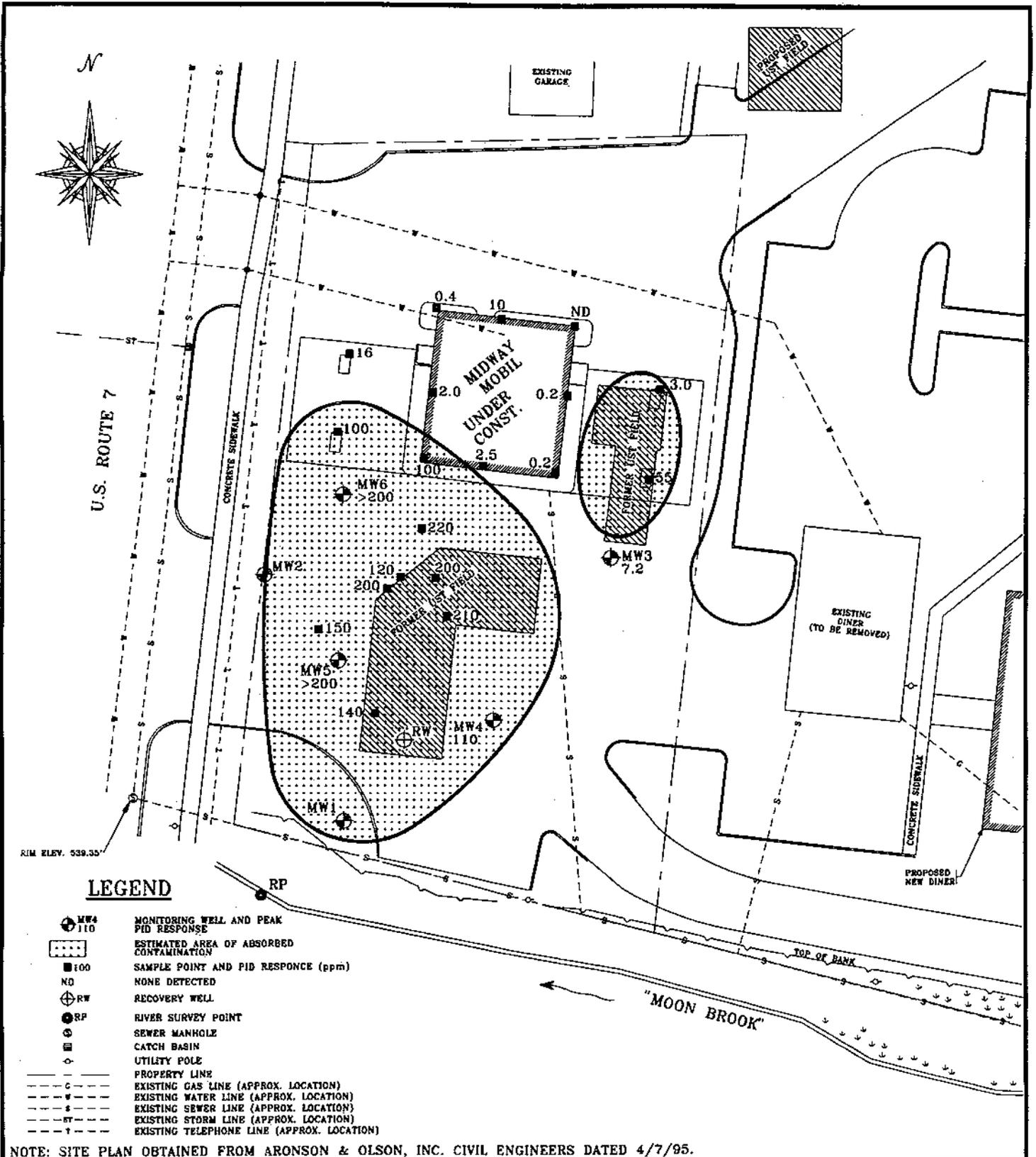
DATE SAMPLED: 9/27/95

DATE: 10/2/95

DWG.#: 5

SCALE: 1" = 40'

DRN.:SB APP.:LR



RIM ELEV. 539.35'

**LEGEND**

- ⊕ MW4 110 MONITORING WELL AND PEAK PID RESPONSE
- ⊕ MW1 110 MONITORING WELL AND PEAK PID RESPONSE
- ⊕ MW2 120 MONITORING WELL AND PEAK PID RESPONSE
- ⊕ MW3 7.2 MONITORING WELL AND PEAK PID RESPONSE
- ⊕ MW4 110 MONITORING WELL AND PEAK PID RESPONSE
- ⊕ MW5 >200 MONITORING WELL AND PEAK PID RESPONSE
- ⊕ MW6 >200 MONITORING WELL AND PEAK PID RESPONSE
- ⊕ RW RECOVERY WELL
- ⊕ RP RIVER SURVEY POINT
- ⊙ SEWER MANHOLE
- ⊞ CATCH BASIN
- UTILITY POLE
- PROPERTY LINE
- - - - - EXISTING GAS LINE (APPROX. LOCATION)
- - - - - EXISTING WATER LINE (APPROX. LOCATION)
- - - - - EXISTING SEWER LINE (APPROX. LOCATION)
- - - - - EXISTING STORM LINE (APPROX. LOCATION)
- - - - - EXISTING TELEPHONE LINE (APPROX. LOCATION)

NOTE: SITE PLAN OBTAINED FROM ARONSON & OLSON, INC. CIVIL ENGINEERS DATED 4/7/95.



JOB #: 7954717

**MIDWAY MOBIL**

RUTLAND, VERMONT

Soil Contaminant Distribution Map  
DATE SAMPLED: 9/27/95

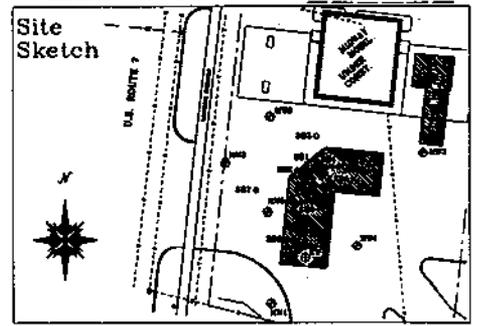
DATE: 10/2/95	DWG.#: 6	SCALE: 1"=40'	DRN.:SB	APP.:LR
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APPENDIX B

DRILLING LOGS

PROJECT MIDWAY MOBIL  
 LOCATION RUTLAND, VERMONT  
 DATE DRILLED 9/21/95 TOTAL DEPTH OF HOLE 13'  
 DIAMETER 6.25"  
 SCREEN DIA. 4" LENGTH 10' SLOT SIZE 0.020"  
 CASING DIA. 4" LENGTH 2.5' TYPE sch 40 pvc  
 DRILLING CO. TRI-STATE DRILLING METHOD HSA  
 DRILLER BOB LOG BY L. REED

WELL NUMBER MW3



GRIFFIN INTERNATIONAL, INC

DEPTH IN FEET	WELL CONSTRUCTION	NOTES	BLOWS PER 6" OF SPOON & PID READINGS	DESCRIPTION/SOIL CLASSIFICATION (COLOR, TEXTURE, STRUCTURES)	DEPTH IN FEET
0	ROAD BOX	LOCKING WELL CAP		Asphalt	0
1	CONCRETE			Dry, brown medium SAND FILL	1
2	BENTONITE				2
3	WELL RISER		2'-4' 0.6 ppm	Dry, dark brown SAND and GRAVEL FILL, petroleum stained.	3
4				Damp, dark brown silty SAND.	4
5					5
6	SAND PACK		5'-7'- 8/4/4/4 7.2 ppm 8" recovery	6.0' WATER TABLE	6
7				Damp to wet, dark brown silty SAND, slight petroleum odor.	7
8					8
9	WELL SCREEN				9
10					10
11			10'-12' no recovery		11
12	BOTTOM CAP			Wet, light brown SILT with very fine SAND and some pebbles.	12
13	UNDISTURBED NATIVE SOIL		12'-13'- 4/8/12/11 0 ppm 1.0' recovery	BASE OF WELL AT 13' END OF EXPLORATION AT 13'	13
14					14
15					15
16					16
17					17
18					18
19					19
20					20
21					21
22					22
23					23
24					24
25					25

PROJECT MIDWAY MOBIL

LOCATION RUTLAND, VERMONT

DATE DRILLED 9/21/95 TOTAL DEPTH OF HOLE 13'

DIAMETER 6.25"

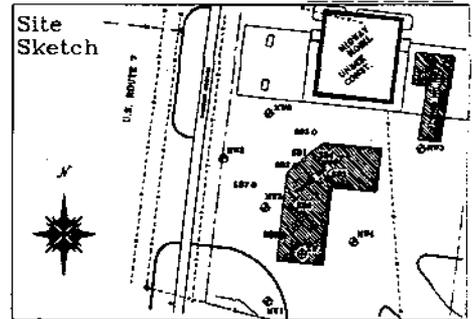
SCREEN DIA. 4" LENGTH 10' SLOT SIZE 0.020"

CASING DIA. 4" LENGTH 2.0' TYPE sch 40 pvc

DRILLING CO. TRI-STATE DRILLING METHOD HSA

DRILLER BOB LOG BY L. REED

WELL NUMBER MW4



GRIFFIN INTERNATIONAL, INC

DEPTH IN FEET	WELL CONSTRUCTION	NOTES	BLOWS PER 6" OF SPOON & PID READINGS	DESCRIPTION/SOIL CLASSIFICATION (COLOR, TEXTURE, STRUCTURES)	DEPTH IN FEET
0	ROAD BOX	LOCKING WELL CAP			0
1	CONCRETE				1
2	BENTONITE				2
3	WELL RISER		0'-5' 110 ppm	Damp, brown, fine SAND and SILT.	3
4					4
5					5
6	SAND PACK		5'-7'- 3/4/1/1 30 ppm 12" recovery	6.0' WATER TABLE	6
7				Wet, dark brown and gray, SILT with fine SAND, (organics).	7
8					8
9	WELL SCREEN				9
10					10
11			10'-12'- 6/6/5/6 30 ppm	Wet, dark brown SILT with organics over damp, light brown SILT with GRAVEL.	11
12	BOTTOM CAP				12
13	UNDISTURBED NATIVE SOIL			BASE OF WELL AT 12.5' END OF EXPLORATION AT 13'	13
14					14
15					15
16					16
17					17
18					18
19					19
20					20
21					21
22					22
23					23
24					24
25					25

PROJECT MIDWAY MOBIL

LOCATION RUTLAND, VERMONT

DATE DRILLED 9/22/95 TOTAL DEPTH OF HOLE 12.5'

DIAMETER 6.25"

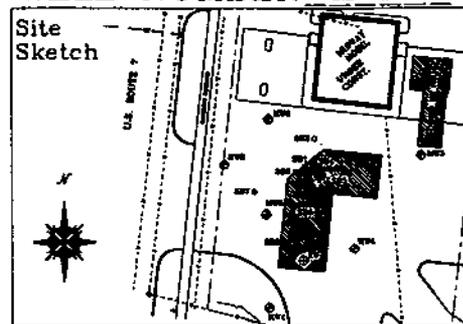
SCREEN DIA. 4" LENGTH 10' SLOT SIZE 0.020"

CASING DIA. 4" LENGTH 2.0' TYPE sch 40 pvc

DRILLING CO. TRI-STATE DRILLING METHOD HSA

DRILLER BOB LOG BY L. REED

WELL NUMBER MW5



GRIFFIN INTERNATIONAL, INC

DEPTH IN FEET	WELL CONSTRUCTION	NOTES	BLOWS PER 6" OF SPOON & PID READINGS	DESCRIPTION/SOIL CLASSIFICATION (COLOR, TEXTURE, STRUCTURES)	DEPTH IN FEET
0		ROAD BOX			0
0		LOCKING WELL CAP			0
0		CONCRETE		Asphalt	0
1		BENTONITE			1
2		WELL RISER		Gray to brown, fine silty SAND with some gravel.	2
3			0.3'-5' 128 ppm @ 2.5'		3
4					4
5		SAND PACK			5
6			5'-7'- 1/1/1/1 <200 ppm 6" recovery	6.0' WATER TABLE	6
7				Wet, dark brown, fine silty SAND with some gravel, sheen visible, strong odor.	7
8					8
9		WELL SCREEN			9
10			7'-12' 160 ppm @ 10'	Wet, dark brown silty SAND.	10
11		BOTTOM CAP			11
12		UNDISTURBED NATIVE SOIL			12
13				BASE OF WELL AT 12.5' END OF EXPLORATION AT 12.5'	13
14					14
15					15
16					16
17					17
18					18
19					19
20					20
21					21
22					22
23					23
24					24
25					25

PROJECT MIDWAY MOBIL

LOCATION RUTLAND, VERMONT

DATE DRILLED 9/22/95 TOTAL DEPTH OF HOLE 12.5'

DIAMETER 6.25"

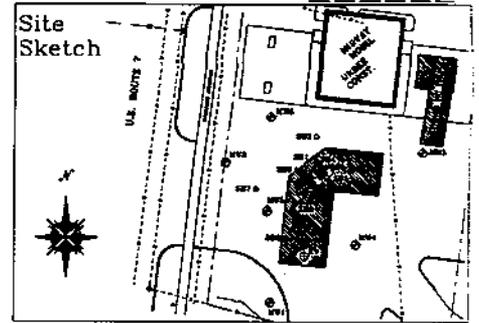
SCREEN DIA. 4" LENGTH 10' SLOT SIZE 0.020"

CASING DIA. 4" LENGTH 2.0' TYPE sch 40 pvc

DRILLING CO. TRI-STATE DRILLING METHOD HSA

DRILLER BOB LOG BY L. REED

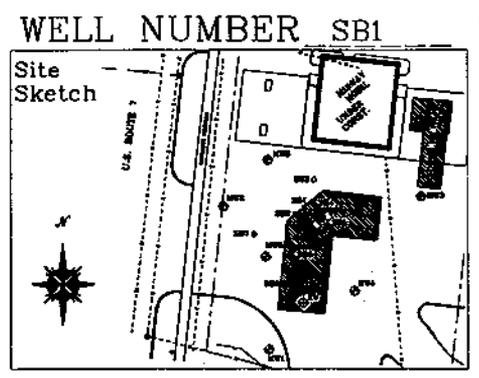
WELL NUMBER MW6



GRIFFIN INTERNATIONAL, INC

DEPTH IN FEET	WELL CONSTRUCTION	NOTES	BLOWS PER 6" OF SPOON & PID READINGS	DESCRIPTION/SOIL CLASSIFICATION (COLOR, TEXTURE, STRUCTURES)	DEPTH IN FEET
0		ROAD BOX			0
0		LOCKING WELL CAP			0
1		CONCRETE			1
2		BENTONITE			2
3		WELL RISER	0'-5' 195 ppm @ 3'	Moist, brown, silty fine SAND, strong gasoline odor.	3
4					4
5					5
6		SAND PACK	5'-7'- 1/1/1/1 150 ppm 4" recovery	6.0' WATER TABLE	6
7				Moist, brown, silty fine SAND, gasoline odor.	7
8					8
9		WELL SCREEN	7'-10' <200 @ 8'	Wet, brown, silty fine SAND with some gravel, strong gasoline odor.	9
10					10
11		BOTTOM CAP	10'-12'- 1/1/2/4 180 ppm silt 1.0 ppm clay 18" recovery	Moist to wet, brown/gray silty fine SAND, over moist, tan CLAY with some silt.	11
12					12
13		UNDISTURBED NATIVE SOIL		BASE OF WELL AT 12.5' END OF EXPLORATION AT 12.5'	13
14					14
15					15
16					16
17					17
18					18
19					19
20					20
21					21
22					22
23					23
24					24
25					25

PROJECT MIDWAY MOBIL  
 LOCATION RUTLAND, VERMONT  
 DATE DRILLED 9/21/95 TOTAL DEPTH OF HOLE 2.5'  
 DIAMETER 6.25"  
 SCREEN DIA. N/A LENGTH N/A SLOT SIZE N/A  
 CASING DIA. N/A LENGTH N/A TYPE N/A  
 DRILLING CO. TRI-STATE DRILLING METHOD HSA  
 DRILLER BOB LOG BY L. REED



GRIFFIN INTERNATIONAL, INC

DEPTH IN FEET	WELL CONSTRUCTION	NOTES	BLOWS PER 6" OF SPOON & PID READINGS	DESCRIPTION/SOIL CLASSIFICATION (COLOR, TEXTURE, STRUCTURES)	DEPTH IN FEET
0		NATIVE BACKFILL	0.3'-2.5' 120 ppm @ 2'	Asphalt	0
1				Dry, dark brown, medium and fine SAND with some silt, petroleum odor.	1
2		UNDISTURBED NATIVE SOIL		REFUSAL AT 2.5'	2
3					3
4					4
5					5
6					6
7					7
8					8
9					9
10					10
11					11
12					12
13					13
14					14
15					15
16					16
17					17
18					18
19					19
20					20
21					21
22					22
23					23
24					24
25					25

PROJECT MIDWAY MOBIL

LOCATION RUTLAND, VERMONT

DATE DRILLED 9/21/95 TOTAL DEPTH OF HOLE 3.0'

DIAMETER 6.25"

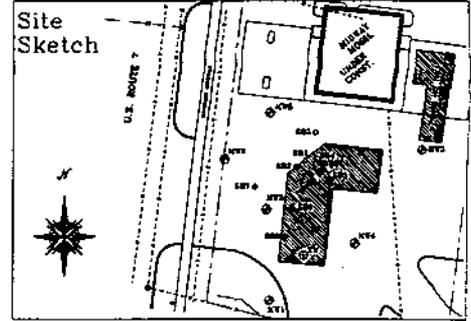
SCREEN DIA. N/A LENGTH N/A SLOT SIZE N/A

CASING DIA. N/A LENGTH N/A TYPE N/A

DRILLING CO. TRI-STATE DRILLING METHOD HSA

DRILLER BOB LOG BY L. REED

WELL NUMBER SB2

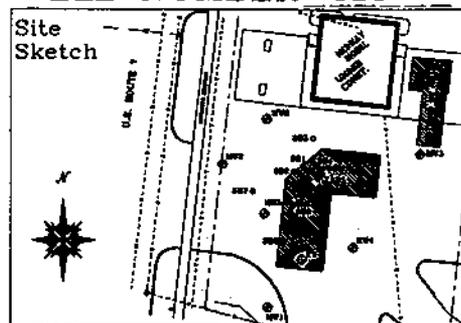


GRIFFIN INTERNATIONAL, INC

DEPTH IN FEET	WELL CONSTRUCTION	NOTES	BLOWS PER 6" OF SPOON & PID READINGS	DESCRIPTION/SOIL CLASSIFICATION (COLOR, TEXTURE, STRUCTURES)	DEPTH IN FEET
0				Asphalt	0
1		NATIVE BACKFILL	0.3'-3.0'	Dark brown fine SAND and SILT with pebbles.	1
2			65 ppm @ 2'		2
3		UNDISTURBED NATIVE SOIL	200 ppm @ 3'	END OF EXPLORATION AT 3.0'	3
4					4
5					5
6					6
7					7
8					8
9					9
10					10
11					11
12					12
13					13
14					14
15					15
16					16
17					17
18					18
19					19
20					20
21					21
22					22
23					23
24					24
25					25

PROJECT MIDWAY MOBIL  
 LOCATION RUTLAND, VERMONT  
 DATE DRILLED 9/21/95 TOTAL DEPTH OF HOLE 5.0'  
 DIAMETER 6.25"  
 SCREEN DIA. N/A LENGTH N/A SLOT SIZE N/A  
 CASING DIA. N/A LENGTH N/A TYPE N/A  
 DRILLING CO. TRI-STATE DRILLING METHOD HSA  
 DRILLER BOB LOG BY L. REED

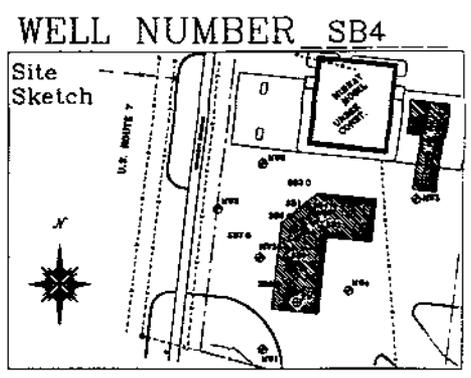
WELL NUMBER **SB3**



GRIFFIN INTERNATIONAL, INC

DEPTH IN FEET	WELL CONSTRUCTION	NOTES	BLOWS PER 6" OF SPOON & PID READINGS	DESCRIPTION/SOIL CLASSIFICATION (COLOR, TEXTURE, STRUCTURES)	DEPTH IN FEET
0					0
1					1
2					2
3		NATIVE BACKFILL	0'-5.0' 220 ppm @ 3' 210 ppm @ 5'	Dry, brown fine SAND and SILT with gravel fill. Large gravel and wood debris at 5.0'	3
4					4
5					5
6		UNDISTURBED NATIVE SOIL		REFUSAL AT 5.0'	6
7					7
8					8
9					9
10					10
11					11
12					12
13					13
14					14
15					15
16					16
17					17
18					18
19					19
20					20
21					21
22					22
23					23
24					24
25					25

PROJECT MIDWAY MOBIL  
 LOCATION RUTLAND, VERMONT  
 DATE DRILLED 9/21/95 TOTAL DEPTH OF HOLE 5.0'  
 DIAMETER 6.25"  
 SCREEN DIA. N/A LENGTH N/A SLOT SIZE N/A  
 CASING DIA. N/A LENGTH N/A TYPE N/A  
 DRILLING CO. TRI-STATE DRILLING METHOD HSA  
 DRILLER BOB LOG BY L. REED



GRIFFIN INTERNATIONAL, INC

DEPTH IN FEET	WELL CONSTRUCTION	NOTES	BLOWS PER 6" OF SPOON & PID READINGS	DESCRIPTION/SOIL CLASSIFICATION (COLOR, TEXTURE, STRUCTURES)	DEPTH IN FEET
0		NATIVE BACKFILL	0'-5.0' 45 ppm @ 3' 200 ppm @ 5'	Dry, light brown, medium SAND FILL	0
1					1
2					2
3					3
4					4
5		UNDISTURBED NATIVE SOIL		REFUSAL AT 5.0'	5
6					6
7					7
8					8
9					9
10					10
11					11
12					12
13					13
14					14
15					15
16					16
17					17
18					18
19					19
20					20
21					21
22					22
23					23
24					24
25					25

PROJECT MIDWAY MOBIL

LOCATION RUTLAND, VERMONT

DATE DRILLED 9/21/95 TOTAL DEPTH OF HOLE 7.0'

DIAMETER 6.25"

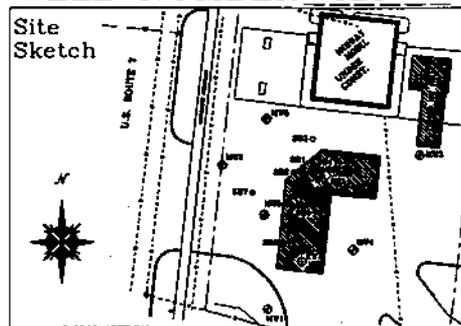
SCREEN DIA. N/A LENGTH N/A SLOT SIZE N/A

CASING DIA. N/A LENGTH N/A TYPE N/A

DRILLING CO. TRI-STATE DRILLING METHOD HSA

DRILLER BOB LOG BY L. REED

WELL NUMBER SB5



GRIFFIN INTERNATIONAL, INC

DEPTH IN FEET	WELL CONSTRUCTION	NOTES	BLOWS PER 6" OF SPOON & PID READINGS	DESCRIPTION/SOIL CLASSIFICATION (COLOR, TEXTURE, STRUCTURES)	DEPTH IN FEET	
0		NATIVE BACKFILL	3.0' 145 ppm	Dry, brown, medium SAND.	0	
1					1	
2					2	
3					3	
4					Damp, silty fine SAND.	4
5						5
6						6
7		UNDISTURBED NATIVE SOIL	5.0' 210 ppm 6.0' 210 ppm	Wet, silty fine SAND.	7	
8					8	
9					9	
10					10	
11					11	
12					12	
13					13	
14					14	
15					15	
16	16					
17	17					
18	18					
19	19					
20	20					
21	21					
22	22					
23	23					
24	24					
25	25					

PROJECT MIDWAY MOBIL

LOCATION RUTLAND, VERMONT

DATE DRILLED 9/22/95 TOTAL DEPTH OF HOLE 4.5'

DIAMETER 6.25"

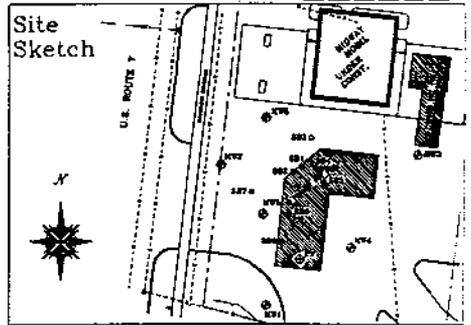
SCREEN DIA. N/A LENGTH N/A SLOT SIZE N/A

CASING DIA. N/A LENGTH N/A TYPE N/A

DRILLING CO. TRI-STATE DRILLING METHOD HSA

DRILLER BOB LOG BY L. REED

WELL NUMBER SB6

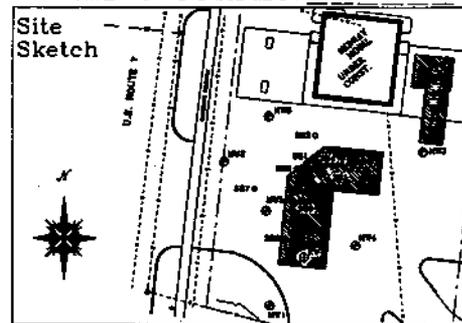


GRIFFIN INTERNATIONAL, INC

DEPTH IN FEET	WELL CONSTRUCTION	NOTES	BLOWS PER 6" OF SPOON & PID READINGS	DESCRIPTION/SOIL CLASSIFICATION (COLOR, TEXTURE, STRUCTURES)	DEPTH IN FEET
0		NATIVE BACKFILL	2.0' 105 ppm	Asphalt	0
1					
2				Moist, dark brown, silty fine SAND with some gravel.	2
3					3
4					4
5		UNDISTURBED NATIVE SOIL	4.5' 220 ppm	REFUSAL AT 4.5'	5
6					6
7					7
8					8
9					9
10					10
11					11
12					12
13					13
14					14
15					15
16					16
17					17
18					18
19					19
20					20
21					21
22					22
23					23
24					24
25					25

PROJECT MIDWAY MOBIL  
 LOCATION RUTLAND, VERMONT  
 DATE DRILLED 9/22/95 TOTAL DEPTH OF HOLE 3.0'  
 DIAMETER 6.25"  
 SCREEN DIA. N/A LENGTH N/A SLOT SIZE N/A  
 CASING DIA. N/A LENGTH N/A TYPE N/A  
 DRILLING CO. TRI-STATE DRILLING METHOD HSA  
 DRILLER BOB LOG BY L. REED

WELL NUMBER SB7



GRIFFIN INTERNATIONAL, INC

DEPTH IN FEET	WELL CONSTRUCTION	NOTES	BLOWS PER 6" OF SPOON & PID READINGS	DESCRIPTION/SOIL CLASSIFICATION (COLOR, TEXTURE, STRUCTURES)	DEPTH IN FEET
0		NATIVE BACKFILL	2.0' 150 ppm	Asphalt	0
1				Dry, brown SAND and GRAVEL FILL.	1
2				Moist, dark brown, silty fine SAND with gravel.	2
3		UNDISTURBED NATIVE SOIL		END OF EXPLORATION AT 3.0'	3
4					4
5					5
6					6
7					7
8					8
9					9
10					10
11					11
12					12
13					13
14					14
15					15
16					16
17					17
18					18
19					19
20					20
21					21
22					22
23					23
24					24
25					25

PROJECT MIDWAY MOBIL

LOCATION RUTLAND, VERMONT

DATE DRILLED 9/22/95 TOTAL DEPTH OF HOLE 3.0'

DIAMETER 6.25"

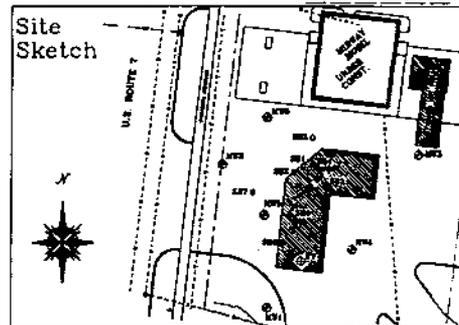
SCREEN DIA. N/A LENGTH N/A SLOT SIZE N/A

CASING DIA. N/A LENGTH N/A TYPE N/A

DRILLING CO. TRI-STATE DRILLING METHOD HSA

DRILLER BOB LOG BY L. REED

WELL NUMBER SB8



GRIFFIN INTERNATIONAL, INC

DEPTH IN FEET	WELL CONSTRUCTION	NOTES	BLOWS PER 6" OF SPOON & PID READINGS	DESCRIPTION/SOIL CLASSIFICATION (COLOR, TEXTURE, STRUCTURES)	DEPTH IN FEET
0		NATIVE BACKFILL	2.5' 140 ppm	Asphalt	0
1				Moist, dark brown silty fine SAND with gravel.	1
2		UNDISTURBED NATIVE SOIL		REFUSAL AT 3.0'	2
3					3
4					4
5					5
6					6
7					7
8					8
9					9
10					10
11					11
12					12
13					13
14					14
15					15
16					16
17					17
18					18
19					19
20					20
21					21
22					22
23					23
24					24
25					25

APPENDIX C

WATER LEVEL DATA

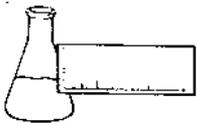
**Liquid Level Monitoring Data**  
**Midway Mobil**  
**Rutland, Vermont**

Monitoring Date: 9/27/95

Well I.D.	Well Depth	Top of Casing Elevation	Depth To Product	Depth To Water	Corrected Water Table Elevation
MW1	10.50	539.05	-	5.88	533.17
MW2	10.50	539.24	-	5.69	533.55
MW3	12.00	540.55	-	4.38	536.17
MW4	12.00	540.52	-	4.41	536.11
MW5	12.00	540.32	-	4.61	535.71
MW6	12.00	540.69	-	4.24	536.45

**APPENDIX D**

LABORATORY RESULTS



**ENDYNE, INC.**

**Laboratory Services**

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

**REPORT OF LABORATORY ANALYSIS**

CLIENT: Griffin International  
PROJECT NAME: Midway Mobil  
REPORT DATE: September 29, 1995  
DATE SAMPLED: September 27, 1995

PROJECT CODE: GIMM1529  
REF.#: 80,338 - 80,350

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

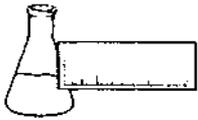
Analytical method precision and accuracy was monitored by laboratory control standards which included matrix spike, duplicate and quality control analyses. These standards were determined to be within established laboratory method acceptance limits.

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



**ENDYNE, INC.**

Laboratory Services

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

LABORATORY REPORT

EPA METHOD 602--PURGEABLE AROMATICS

CLIENT: Griffin International  
PROJECT NAME: Midway Mobil  
REPORT DATE: September 29, 1995  
DATE SAMPLED: September 27, 1995  
DATE RECEIVED: September 28, 1995  
DATE ANALYZED: September 28, 1995

PROJECT CODE: GIMM1529  
REF.#: 80,338  
STATION: MW1  
TIME SAMPLED: 11:58  
SAMPLER: L. Reed

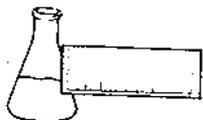
<u>Parameter</u>	<u>Detection Limit (ug/L)<sup>1</sup></u>	<u>Concentration (ug/L)</u>
Benzene	100	365.
Chlorobenzene	100	ND <sup>2</sup>
1,2-Dichlorobenzene	100	ND
1,3-Dichlorobenzene	100	ND
1,4-Dichlorobenzene	100	ND
Ethylbenzene	100	795.
Toluene	100	378.
Xylenes	100	8,490.
MTBE	1,000	ND

Bromobenzene Surrogate Recovery: 97%

NUMBER OF UNIDENTIFIED PEAKS FOUND: > 10

NOTES:

- 1 Detection limit raised due to high levels of contaminants. Sample run at 1% dilution.
- 2 None detected



**ENDYNE, INC.**

Laboratory Services

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

LABORATORY REPORT

EPA METHOD 602--PURGEABLE AROMATICS

CLIENT: Griffin International  
PROJECT NAME: Midway Mobil  
REPORT DATE: September 29, 1995  
DATE SAMPLED: September 27, 1995  
DATE RECEIVED: September 28, 1995  
DATE ANALYZED: September 28, 1995

PROJECT CODE: GIMM1529  
REF.#: 80,339  
STATION: MW2  
TIME SAMPLED: 12:12  
SAMPLER: L. Reed

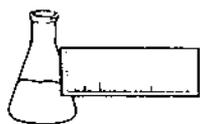
<u>Parameter</u>	<u>Detection Limit (ug/L)</u>	<u>Concentration (ug/L)</u>
Benzene	1	4.2
Chlorobenzene	1	ND <sup>1</sup>
1,2-Dichlorobenzene	1	ND
1,3-Dichlorobenzene	1	ND
1,4-Dichlorobenzene	1	ND
Ethylbenzene	1	7.2
Toluene	1	5.5
Xylenes	1	150.
MTBE	10	52.8

Bromobenzene Surrogate Recovery: 91%

NUMBER OF UNIDENTIFIED PEAKS FOUND: >10

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 602--PURGEABLE AROMATICS

CLIENT: Griffin International  
PROJECT NAME: Midway Mobil  
REPORT DATE: September 29, 1995  
DATE SAMPLED: September 27, 1995  
DATE RECEIVED: September 28, 1995  
DATE ANALYZED: September 29, 1995

PROJECT CODE: GIMM1529  
REF.#: 80,340  
STATION: MW3  
TIME SAMPLED: 11:08  
SAMPLER: L. Reed

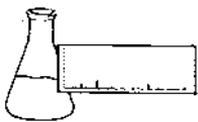
<u>Parameter</u>	<u>Detection Limit (ug/L)</u>	<u>Concentration (ug/L)</u>
Benzene	1	ND <sup>1</sup>
Chlorobenzene	1	ND
1,2-Dichlorobenzene	1	ND
1,3-Dichlorobenzene	1	ND
1,4-Dichlorobenzene	1	ND
Ethylbenzene	1	ND
Toluene	1	ND
Xylenes	1	ND
MTBE	10	ND

Bromobenzene Surrogate Recovery: 99%

NUMBER OF UNIDENTIFIED PEAKS FOUND: > 10

NOTES:

1 None detected



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FAX 879-7103

LABORATORY REPORT

EPA METHOD 602--PURGEABLE AROMATICS

CLIENT: Griffin International  
PROJECT NAME: Midway Mobil  
REPORT DATE: September 29, 1995  
DATE SAMPLED: September 27, 1995  
DATE RECEIVED: September 28, 1995  
DATE ANALYZED: September 28, 1995

PROJECT CODE: GIMM1529  
REF.#: 80,341  
STATION: MW4  
TIME SAMPLED: 11:22  
SAMPLER: L. Reed

<u>Parameter</u>	<u>Detection Limit (ug/L)<sup>1</sup></u>	<u>Concentration (ug/L)</u>
Benzene	10	598.
Chlorobenzene	10	ND <sup>2</sup>
1,2-Dichlorobenzene	10	ND
1,3-Dichlorobenzene	10	ND
1,4-Dichlorobenzene	10	ND
Ethylbenzene	10	546.
Toluene	10	484.
Xylenes	10	1,950.
MTBE	100	1,630.

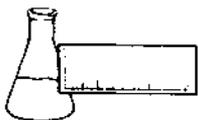
Bromobenzene Surrogate Recovery: 97%

NUMBER OF UNIDENTIFIED PEAKS FOUND: >10

NOTES:

1 Detection limit raised due to high levels of contaminants. Sample run at 10% dilution.

2 None detected



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LABORATORY REPORT

EPA METHOD 602--PURGEABLE AROMATICS

CLIENT: Griffin International  
PROJECT NAME: Midway Mobil  
REPORT DATE: September 29, 1995  
DATE SAMPLED: September 27, 1995  
DATE RECEIVED: September 28, 1995  
DATE ANALYZED: September 29, 1995

PROJECT CODE: GIMM1529  
REF.#: 80,342  
STATION: MW5  
TIME SAMPLED: 11:34  
SAMPLER: L. Reed

<u>Parameter</u>	<u>Detection Limit (ug/L)<sup>1</sup></u>	<u>Concentration (ug/L)</u>
Benzene	100	3,300.
Chlorobenzene	100	ND <sup>2</sup>
1,2-Dichlorobenzene	100	ND
1,3-Dichlorobenzene	100	ND
1,4-Dichlorobenzene	100	ND
Ethylbenzene	100	2,520.
Toluene	100	8,480.
Xylenes	100	13,500.
MTBE	1,000	ND

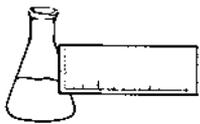
Bromobenzene Surrogate Recovery: 97%

NUMBER OF UNIDENTIFIED PEAKS FOUND: > 10

NOTES:

- 1 Detection limit raised due to high levels of contaminants. Sample run at 1% dilution.
- 2 None detected

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LABORATORY REPORT

EPA METHOD 602--PURGEABLE AROMATICS

CLIENT: Griffin International  
PROJECT NAME: Midway Mobil  
REPORT DATE: September 29, 1995  
DATE SAMPLED: September 27, 1995  
DATE RECEIVED: September 28, 1995  
DATE ANALYZED: September 29, 1995

PROJECT CODE: GIMM1529  
REF.#: 80,343  
STATION: MW6  
TIME SAMPLED: 11:46  
SAMPLER: L. Reed

<u>Parameter</u>	<u>Detection Limit (ug/L)<sup>1</sup></u>	<u>Concentration (ug/L)</u>
Benzene	50	865.
Chlorobenzene	50	ND <sup>2</sup>
1,2-Dichlorobenzene	50	ND
1,3-Dichlorobenzene	50	ND
1,4-Dichlorobenzene	50	ND
Ethylbenzene	50	1,580.
Toluene	50	5,490.
Xylenes	50	9,570.
MTBE	500	ND

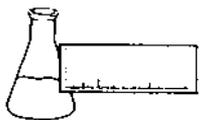
Bromobenzene Surrogate Recovery: 98%

NUMBER OF UNIDENTIFIED PEAKS FOUND: >10

NOTES:

1 Detection limit raised due to high levels of contaminants. Sample run at 2% dilution.

2 None detected



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LABORATORY REPORT

EPA METHOD 602--PURGEABLE AROMATICS

CLIENT: Griffin International  
PROJECT NAME: Midway Mobil  
REPORT DATE: September 29, 1995  
DATE SAMPLED: September 27, 1995  
DATE RECEIVED: September 28, 1995  
DATE ANALYZED: September 29, 1995

PROJECT CODE: GIMM1529  
REF.#: 80,344  
STATION: RW  
TIME SAMPLED: 12:21  
SAMPLER: L. Reed

<u>Parameter</u>	<u>Detection Limit (ug/L)<sup>1</sup></u>	<u>Concentration (ug/L)</u>
Benzene	50	162.
Chlorobenzene	50	ND <sup>2</sup>
1,2-Dichlorobenzene	50	ND
1,3-Dichlorobenzene	50	ND
1,4-Dichlorobenzene	50	ND
Ethylbenzene	50	126.
Toluene	50	186.
Xylenes	50	2,400.
MTBE	500	TBQ <sup>3</sup>

Bromobenzene Surrogate Recovery: 94%

NUMBER OF UNIDENTIFIED PEAKS FOUND: >10

NOTES:

- 1 Detection limit raised due to high levels of contaminants. Sample run at 2% dilution.
- 2 None detected
- 3 Trace below quantitation limit



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LABORATORY REPORT

EPA METHOD 602--PURGEABLE AROMATICS

CLIENT: Griffin International  
PROJECT NAME: Midway Mobil  
REPORT DATE: September 29, 1995  
DATE SAMPLED: September 27, 1995  
DATE RECEIVED: September 28, 1995  
DATE ANALYZED: September 28, 1995

PROJECT CODE: GIMM1529  
REF.#: 80,345  
STATION: Equipment Blank  
TIME SAMPLED: 12:45  
SAMPLER: L. Reed

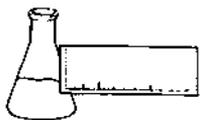
<u>Parameter</u>	<u>Detection Limit (ug/L)</u>	<u>Concentration (ug/L)</u>
Benzene	1	ND <sup>1</sup>
Chlorobenzene	1	ND
1,2-Dichlorobenzene	1	ND
1,3-Dichlorobenzene	1	ND
1,4-Dichlorobenzene	1	ND
Ethylbenzene	1	ND
Toluene	1	ND
Xylenes	1	ND
MTBE	10	ND

Bromobenzene Surrogate Recovery: 101%

NUMBER OF UNIDENTIFIED PEAKS FOUND: 1

NOTES:

1 None detected



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LABORATORY REPORT

EPA METHOD 602--PURGEABLE AROMATICS

CLIENT: Griffin International  
PROJECT NAME: Midway Mobil  
REPORT DATE: September 29, 1995  
DATE SAMPLED: September 27, 1995  
DATE RECEIVED: September 28, 1995  
DATE ANALYZED: September 28, 1995

PROJECT CODE: GIMM1529  
REF.#: 80,346  
STATION: Moon Brook Upper  
TIME SAMPLED: 12:20  
SAMPLER: L. Reed

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

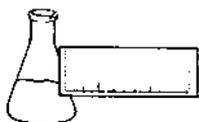
Bromobenzene Surrogate Recovery: 100%

NUMBER OF UNIDENTIFIED PEAKS FOUND: 0

NOTES:

1 None detected

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LABORATORY REPORT

EPA METHOD 602--PURGEABLE AROMATICS

CLIENT: Griffin International  
PROJECT NAME: Midway Mobil  
REPORT DATE: September 29, 1995  
DATE SAMPLED: September 27, 1995  
DATE RECEIVED: September 28, 1995  
DATE ANALYZED: September 28, 1995

PROJECT CODE: GIMM1529  
REF.#: 80,347  
STATION: Moon Brook Mid  
TIME SAMPLED: 12:28  
SAMPLER: L. Reed

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

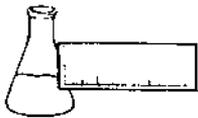
Bromobenzene Surrogate Recovery: 103%

NUMBER OF UNIDENTIFIED PEAKS FOUND: 1

NOTES:

1 None detected

SEP 29 1995



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LABORATORY REPORT

EPA METHOD 602--PURGEABLE AROMATICS

CLIENT: Griffin International  
PROJECT NAME: Midway Mobil  
REPORT DATE: September 29, 1995  
DATE SAMPLED: September 27, 1995  
DATE RECEIVED: September 28, 1995  
DATE ANALYZED: September 28, 1995

PROJECT CODE: GIMM1529  
REF.#: 80,348  
STATION: Moon Brook Lower  
TIME SAMPLED: 12:35  
SAMPLER: L. Reed

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

Bromobenzene Surrogate Recovery: 98%

NUMBER OF UNIDENTIFIED PEAKS FOUND: 0

NOTES:

1 None detected

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LABORATORY REPORT

EPA METHOD 602--PURGEABLE AROMATICS

CLIENT: Griffin International  
PROJECT NAME: Midway Mobil  
REPORT DATE: September 29, 1995  
DATE SAMPLED: September 27, 1995  
DATE RECEIVED: September 28, 1995  
DATE ANALYZED: September 29, 1995

PROJECT CODE: GIMM1529  
REF.#: 80,349  
STATION: Trip Blank  
TIME SAMPLED: 7:15  
SAMPLER: L. Reed

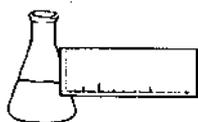
<u>Parameter</u>	<u>Detection Limit (ug/L)</u>	<u>Concentration (ug/L)</u>
Benzene	1	ND <sup>1</sup>
Chlorobenzene	1	ND
1,2-Dichlorobenzene	1	ND
1,3-Dichlorobenzene	1	ND
1,4-Dichlorobenzene	1	ND
Ethylbenzene	1	ND
Toluene	1	ND
Xylenes	1	ND
MTBE	10	ND

Bromobenzene Surrogate Recovery: 102%

NUMBER OF UNIDENTIFIED PEAKS FOUND: 0

NOTES:

1 None detected



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**LABORATORY REPORT**

**EPA METHOD 602--PURGEABLE AROMATICS**

CLIENT: Griffin International  
PROJECT NAME: Midway Mobil  
REPORT DATE: September 29, 1995  
DATE SAMPLED: September 27, 1995  
DATE RECEIVED: September 28, 1995  
DATE ANALYZED: September 29, 1995

PROJECT CODE: GIMM1529  
REF.#: 80,350  
STATION: Duplicate to MW6<sup>1</sup>  
TIME SAMPLED: 11:46<sup>2</sup>  
SAMPLER: L. Reed

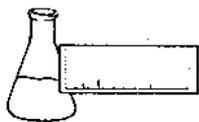
<u>Parameter</u>	<u>Detection Limit (ug/L)<sup>3</sup></u>	<u>Concentration (ug/L)</u>
Benzene	100	3,110.
Chlorobenzene	100	ND <sup>4</sup>
1,2-Dichlorobenzene	100	ND
1,3-Dichlorobenzene	100	ND
1,4-Dichlorobenzene	100	ND
Ethylbenzene	100	1,980.
Toluene	100	7,490.
Xylenes	100	10,400.
MTBE	1,000	ND

Bromobenzene Surrogate Recovery: 99%

NUMBER OF UNIDENTIFIED PEAKS FOUND: > 10

**NOTES:**

- 1 Vial labelled as Duplicate MW5.
- 2 Vial indicated sampling at 11:34.
- 3 Detection limit raised due to high levels of contaminants. Sample run at 1% dilution.
- 4 None detected



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EPA METHOD 602 LABORATORY REPORT

MATRIX SPIKE AND DUPLICATE LABORATORY CONTROL DATA

CLIENT: Griffin International  
PROJECT NAME: Midway Mobil  
REPORT DATE: September 29, 1995  
DATE SAMPLED: September 27, 1995  
DATE RECEIVED: September 28, 1995  
DATE ANALYZED: September 28, 1995

PROJECT CODE: GIMM1529  
REF.#: 80,346  
STATION: Moon Brook Upper  
TIME SAMPLED: 12:20  
SAMPLER: L. Reed

<u>Parameter</u>	<u>Sample(ug/L)</u>	<u>Spike(ug/L)</u>	<u>Dup1(ug/L)</u>	<u>Dup2(ug/L)</u>	<u>Avg % Rec</u>
Benzene	ND <sup>1</sup>	10	9.1	9.4	93%
Toluene	ND	10	9.6	9.7	97%
Ethylbenzene	ND	10	9.4	9.5	95%
Xylenes	ND	30	28.6	29.5	97%

NOTES:

1 None detected

REC-111111

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*7954717*

**CHAIN-OF-CUSTODY RECORD**

15475

*Page 1 of 2*

Project Name: <i>Midway Mobil</i> Site Location: <i>Rutland, VT</i>	Reporting Address: <i>G.I.F.C.N</i>	Billing Address:
Endyne Project Number: <i>GIMM1529</i>	Company: Contact Name/Phone #: <i>L. Reed 865-4282</i>	Sampler Name: <i>L. Reed</i> Phone #:

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				
80,338	MW1	Ground water	X	L	<i>9/27/95</i> 11:58	2	40ml/glass		20	HCl	X
80,339	MW2	↓	↓	↓	12:12	↓	↓		↓	↓	↓
80,340	MW3	↓	↓	↓	11:08	↓	↓		↓	↓	↓
80,341	MW4	↓	↓	↓	11:22	↓	↓		↓	↓	↓
80,342	MW5	↓	↓	↓	11:34	↓	↓		↓	↓	↓
80,343	UR <del>DR</del> MW6	↓	↓	↓	11:46	↓	↓		↓	↓	↓
80,344	RW	↓	↓	↓	12:21	↓	↓		↓	↓	↓
80,345	Equipment Blank	DEWATER	↓	↓	12:45	↓	↓		↓	↓	↓
80,346	MOON Brook upper	Surface water	↓	↓	12:20	↓	↓		↓	↓	↓
80,347	MOON Brook MID	↓	↓	↓	12:28	↓	↓		↓	↓	↓
80,348	MOON Brook Lower	↓	↓	↓	12:35	↓	↓		↓	↓	↓
80,349	Trip Blank	water	↓	↓	07:15	↓	↓		↓	↓	↓

Relinquished by: Signature <i>Jacob L. [Signature]</i>	Received by: Signature <i>Beth Ward</i>	Date/Time <i>9-28-95 9:45</i>
--	---	-------------------------------

Relinquished by: Signature <i>Beth Ward</i>	Received by: Signature <i>Rowen [Signature]</i>	Date/Time <i>9/28/95 10:00 AM</i>
---	---	-----------------------------------

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 <sub>5</sub>	14	Turbidity	19	BTEX	24	EPA 608 Pest/PCB		
5	Nitrate N	10	Alkalinity	15	Conductivity	20	EPA 601/602	25	EPA 8240		
29	TCLP (Specify: volatiles, semi-volatiles, metals, pesticides, herbicides)										
30	Other (Specify):										

**APPENDIX E**

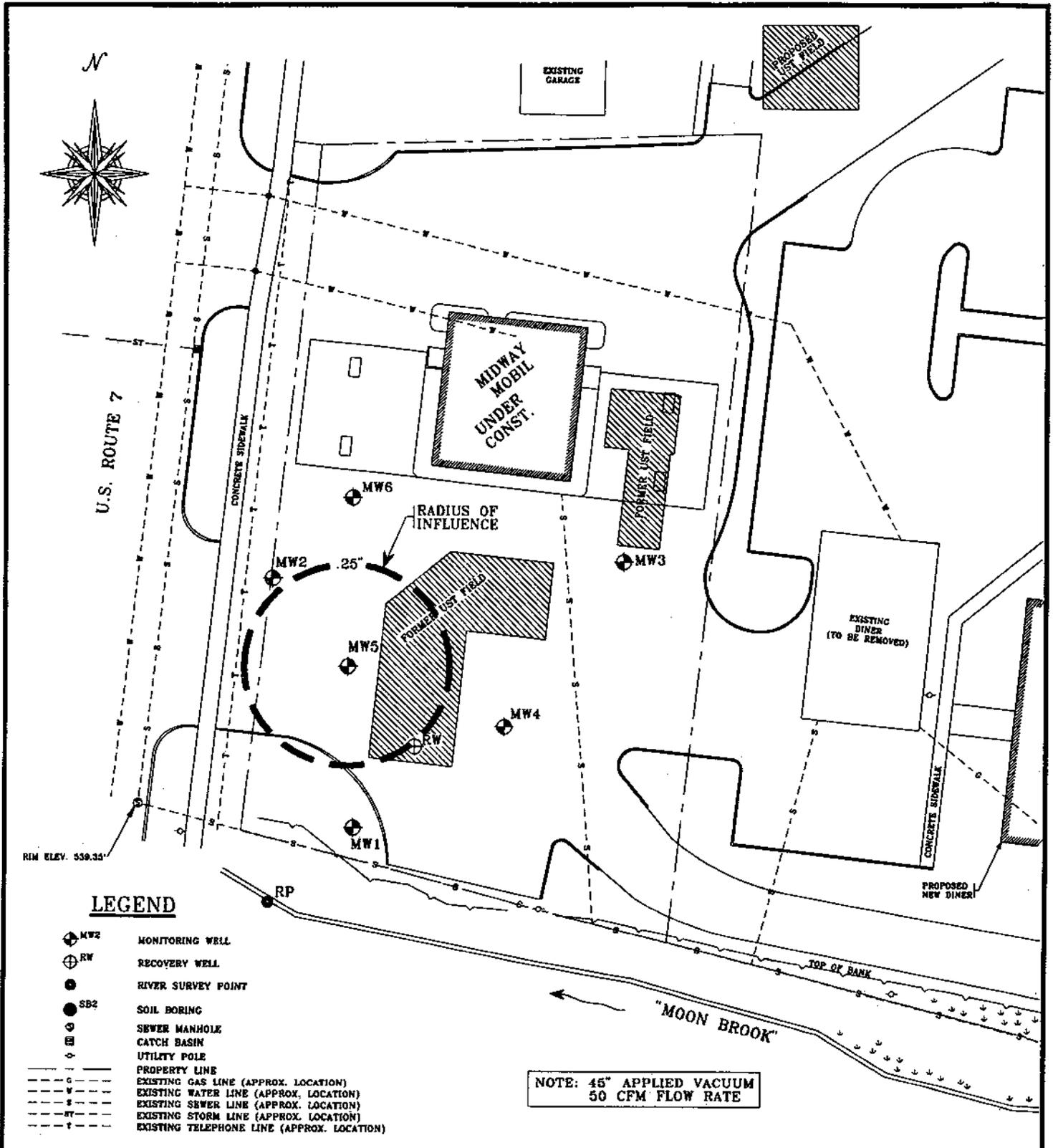
SOIL VAPOR EXTRACTION PILOT TEST DATA  
PROJECTED VENT POINT RADIUS OF INFLUENCE MAP

**Midway Mobil  
Rutland, Vermont  
Soil Vapor Extraction Pilot Test Data**

Vacuum applied to:	MW6	Date: 9/27/95
Screen Diameter:	4"	
Screened Interval:	Vertical 2 to 5 ft below grade	
Notes:	Vent point sealed at surface with bentonite. Area over and north of test well is unpaved. Area between test well and satellite wells is paved.	
Applied Vacuum: 5.0 " Flow Rate: 10 cfm VOC Concentration >200 ppm      with H-nu		
Station	Induced Vacuum ("H2O)	
MW2	0.01	
MW1	0	
MW4	0	
MW3	0	
MW6	0	
Applied Vacuum: 15" Flow Rate: 25 cfm VOC Concentration >200 ppm      with H-nu		
Station	Induced Vacuum ("H2O)	
MW2	0.02	
MW1	0	
MW4	0	
MW3	0	
MW6	0.03	
Applied Vacuum: 45" Flow Rate: 50 cfm VOC Concentration >200 ppm      with H-nu		
Station	Induced Vacuum ("H2O)	
MW2	0.03	
MW1	0	
MW4	0	
MW3	0	
MW6	0.03	

**Midway Mobil  
Rutland, Vermont  
Soil Vapor Extraction Pilot Test Data**

Vacuum applied to: <b>MW5</b> <span style="float: right;">Date: <b>9/27/95</b></span> Screen Diameter: <b>4"</b> Screened Interval: Vertical 2 to 5 ft below grade  Notes: Vent point sealed at surface with bentonite. Area between test well and satellite wells is paved.												
Applied Vacuum: 5.0 " Flow Rate: 10 cfm VOC Concentration >200 ppm <span style="float: right;">with H-nu</span>  <table style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th style="text-align: left; border-bottom: 1px solid black;">Station</th> <th style="text-align: right; border-bottom: 1px solid black;">Induced Vacuum ("H2O)</th> </tr> </thead> <tbody> <tr><td>MW2</td><td style="text-align: right;">0.02</td></tr> <tr><td>MW1</td><td style="text-align: right;">0</td></tr> <tr><td>MW4</td><td style="text-align: right;">0</td></tr> <tr><td>MW3</td><td style="text-align: right;">0</td></tr> <tr><td>MW6</td><td style="text-align: right;">0.01</td></tr> </tbody> </table>	Station	Induced Vacuum ("H2O)	MW2	0.02	MW1	0	MW4	0	MW3	0	MW6	0.01
Station	Induced Vacuum ("H2O)											
MW2	0.02											
MW1	0											
MW4	0											
MW3	0											
MW6	0.01											
Applied Vacuum: 15" Flow Rate: 25 cfm VOC Concentration >200 ppm <span style="float: right;">with H-nu</span>  <table style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th style="text-align: left; border-bottom: 1px solid black;">Station</th> <th style="text-align: right; border-bottom: 1px solid black;">Induced Vacuum ("H2O)</th> </tr> </thead> <tbody> <tr><td>MW2</td><td style="text-align: right;">0.09</td></tr> <tr><td>MW1</td><td style="text-align: right;">0</td></tr> <tr><td>MW4</td><td style="text-align: right;">0</td></tr> <tr><td>MW3</td><td style="text-align: right;">0</td></tr> <tr><td>MW6</td><td style="text-align: right;">0.03</td></tr> </tbody> </table>	Station	Induced Vacuum ("H2O)	MW2	0.09	MW1	0	MW4	0	MW3	0	MW6	0.03
Station	Induced Vacuum ("H2O)											
MW2	0.09											
MW1	0											
MW4	0											
MW3	0											
MW6	0.03											
Applied Vacuum: 45" Flow Rate: 50 cfm VOC Concentration >200 ppm <span style="float: right;">with H-nu</span>  <table style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th style="text-align: left; border-bottom: 1px solid black;">Station</th> <th style="text-align: right; border-bottom: 1px solid black;">Induced Vacuum ("H2O)</th> </tr> </thead> <tbody> <tr><td>MW2</td><td style="text-align: right;">0.24</td></tr> <tr><td>MW1</td><td style="text-align: right;">0</td></tr> <tr><td>MW4</td><td style="text-align: right;">0</td></tr> <tr><td>MW3</td><td style="text-align: right;">0</td></tr> <tr><td>MW6</td><td style="text-align: right;">0.06</td></tr> </tbody> </table>	Station	Induced Vacuum ("H2O)	MW2	0.24	MW1	0	MW4	0	MW3	0	MW6	0.06
Station	Induced Vacuum ("H2O)											
MW2	0.24											
MW1	0											
MW4	0											
MW3	0											
MW6	0.06											



**LEGEND**

- ⊕ MW2 MONITORING WELL
- ⊕ RW RECOVERY WELL
- RIVER SURVEY POINT
- SB2 SOIL BORING
- SEWER MANHOLE
- ▭ CATCH BASIN
- ◇ UTILITY POLE
- PROPERTY LINE
- - - G EXISTING GAS LINE (APPROX. LOCATION)
- - - W EXISTING WATER LINE (APPROX. LOCATION)
- - - S EXISTING SEWER LINE (APPROX. LOCATION)
- - - ST EXISTING STORM LINE (APPROX. LOCATION)
- - - T EXISTING TELEPHONE LINE (APPROX. LOCATION)

NOTE: 45" APPLIED VACUUM  
50 CFM FLOW RATE

NOTE: SITE PLAN OBTAINED FROM ARONSON & OLSON, INC. CIVIL ENGINEERS DATED 4/7/95.



JOB #: 7954717

**MIDWAY MOBIL**

RUTLAND, VERMONT

**PROJECTED VENT POINT RADIUS OF INFLUENCE MAP**

DATE: 10/2/95 DWG.#: 7 SCALE: 1"=40' DRN.:SB APP.:LR