GRIFFIN INTERNATIONAL INC

September 25, 2000

Mr. Chuck Schwer
Supervisor, Sites Management Section
VTDEC WMD
103 South Main St./ West Bldg.
Waterbury, VT 05671-0404

RE: Initial Investigation of Subsurface Petroleum Contamination at McGann's Mobil
West Rutland, Vermont. VTDEC #89-0356

Dear Mr. Schwer:

Enclosed please find the September 2000 report titled *Initial Investigation of Subsurface Petroleum Contamination at McGann's Mobil*. Please do not hesitate to call, if you have any questions or comments.

Sincerely,

Robert Higgins
Engineer

Enc.

cc: Mr. Ed McGann, McGann's Mobil
GI Project #40041688

P.O. Box 943 • Williston, VT 05495 • Phone 802-865-4288 • Fax 802 657 4129
59 Clinton Street • Plattsburgh, NY 12901 • Phone 518-562-4666 • Fax 518 561 6832

INITIAL INVESTIGATION OF SUBSURFACE PETROLEUM CONTAMINATION AT MCGANN'S MOBIL

SEPTEMBER 2000

Site Location:

McGann's Mobil
169 North Main Street
West Rutland, VT

GI Project # 40041688

VTDEC # 89-0356

Mr. Ed McGann
169 N. Main Street
West Rutland, VT 05777

Prepared By:

GRIFFIN INTERNATIONAL

P.O. Box 943 / 20 Commerce Street Williston, VT 05495 (802) 865-4288

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I. INTRODUCTION

This report summarizes the initial investigation of subsurface petroleum contamination at the McGann's Mobil site located at 169 North Main Street in West Rutland, Vermont (see Site Location Map in Appendix A). Petroleum contamination was detected in soil samples collected during the permanent closure of two 6,000-gallon gasoline underground storage tanks (USTs) on November 24, 1997. The State of Vermont, Department of Environmental Conservation (VTDEC) has requested that a site investigation be conducted at this location, as indicated in letters from Mr. Chuck Schwer of the VTDEC, dated April 21, 1998, May 22, 1998, and April 6, 2000. Griffin International, Inc. (Griffin) has been retained by Mr. Ed McGann to carry out this investigation.

The investigation consisted of the following tasks:

- Groundwater sample collection from three existing site monitoring wells for laboratory analysis.
- Determination of groundwater flow direction and gradient.
- A survey of potential sensitive receptors in the vicinity of the site.
- Assessment of on-site contaminated soil stockpile.
- Preparation of a summary report (this document).

Work was conducted in accordance with Griffin's Work Plan and Cost Estimate for an Initial Site Investigation prepared on April 14, 2000. This Work Plan and Cost Estimate was approved by Mr. Chuck Schwer of the VTDEC in a letter to Mr. Ed McGann, dated June 14, 2000. This site was initially listed as VTDEC Site #89-0356 following the detection of subsurface contamination during the closure of two 2,000-gallon gasoline USTs in June 1989.

II. SITE BACKGROUND

A. Site History

Griffin conducted a site file review at the VTDEC office in Waterbury, Vermont on April 27, 1998. According to information observed in the site file, two 2,000-gallon gasoline USTs were removed from the subsurface at the site on June 15, 1989. One of the USTs was observed to be in poor condition and was noted to have been leaking fuel at some point. Two monitoring wells (89-1 and 89-2) were installed at that time (these two monitoring wells were not located during this June 2000 investigative effort and are believed to have been destroyed between 1989 and 2000). On February 14, 1991 samples were collected from these wells and were submitted for laboratory analysis for the presence of petroleum compounds per EPA Method 8020. Each of the samples contained elevated concentrations of compounds targeted by the analysis above the Vermont Groundwater Enforcement Standards (VGES). No additional investigative or

monitoring efforts are recorded to have occurred at the site following the February 14, 1991 monitoring event.

On November 24, 1997, Griffin inspected the removal of two 6,000-gallon single-walled steel gasoline USTs. These USTs were used to store gasoline for retail sale to motor vehicles. The USTs were observed to be in good condition with no holes or seeps identified. These USTs were replaced with two new 6,000-gallon double-walled gasoline USTs [1].

Volatile organic compound (VOC) concentrations, measured with an HNu™ photoionization detector (PID) equipped with a 10.2 eV bulb, ranged from 8 parts per million (ppm) to 220 ppm in soils located in the vicinity of the USTs and the associated piping system [1].

Soils in the excavation consisted of coarse to fine gravel and coarse to fine sand with some silt and clay from grade to a depth of approximately 7 feet. There were several large cobbles observed on the edges of the excavation. Below depths of 7 feet, coarse to fine sand was observed; these soils were stained gray and contained a strong odor resembling weathered gasoline. Groundwater was encountered at approximately 7 feet below grade; a petroleum sheen was visible on the groundwater. Bedrock was not encountered in the excavation [1].

In order to accommodate the new USTs, 50 cubic yards of petroleum contaminated soils were stockpiled and polyencapsulated on the property to the south of the station (see the Site Map, Appendix A).

For further information regarding the permanent closure of the two 6000-gallon USTs please refer to Griffin's November 26, 1997 Underground Storage Tank Closure Report letter.

B. Site Description

The subject property is located along Route 4A in West Rutland, Vermont. The McGann property consists of one auto repair shop building situated on a concrete slab foundation. The remainder of the site is occupied by paved and unpaved driveway/parking areas, one gasoline dispenser island for motor vehicles, and grassy areas.

General topography across the site is relatively flat. The subject site is located at approximately 500 feet above sea level. Based on field observations and a review of the United States Geological Survey (USGS) West Rutland, VT topographic map and topographic field observations, groundwater beneath the site is inferred to flow in an easterly direction, toward the Clarendon River. The Clarendon River is located approximately 2,000 feet to the southeast of the site.

The site is abutted to the north by Route 4A, across which are residential and commercial properties. To the east and south, the site is abutted by commercial properties. To the west, the

site is abutted by a recreation park. According to Mr. McGann, the site and properties in the vicinity are serviced by the municipal water supply.

Three groundwater monitoring wells currently exist at the subject site. The history of these monitoring wells is not known. There are no known well construction diagrams available for these monitoring wells.

C. Site Geologic Setting

According to the Centennial Geologic Map of Vermont [2], the site is underlain by Providence Island dolomite, which consists of blue-gray limestone with irregular spots of light buff dolomite. As per the Surficial Geologic Map of Vermont, the soils are primarily lake bottom sediments of silt, silty clay, and clay [3].

III. INVESTIGATIVE PROCEDURES

A. Determination of Groundwater Flow Direction and Gradient

The existing monitoring well locations and elevations, along with other site features, were surveyed on June 27, 2000 for inclusion on the Site Map (Appendix A). Also on this date, depth to water measurements were taken with use of a Keck™ interface probe in the three on-site monitoring wells. These measurements were subtracted from the top of casing elevations, which were determined relative to an arbitrary datum of 100 feet at the top of the casing for MW2, to determine the water table elevation at each of the wells. Groundwater level data are recorded in Appendix B.

As displayed on the groundwater contour map included in Appendix A, the groundwater flow for June 27, 2000 was estimated to be directed toward the north-northeast at an average gradient of 0.3%. No free phase petroleum product was observed in the monitoring wells gauged on this date.

Under this flow regime, monitoring wells MW1 and MW3 are located downgradient of the former/current USTs; and monitoring well MW2 is located cross-gradient of the former/current USTs. There are no monitoring wells located downgradient of the former dispenser island.

B. Groundwater Sample Collection and Analysis

On June 27, 2000, samples of the groundwater were collected from monitoring wells MW1, MW2, and MW3. Samples were analyzed per EPA Method 8021B for benzene, toluene, ethylbenzene, and xylenes (BTEX), methyl tertiary butyl ether (MTBE), 1,3,5-trimethyl benzene

(TMB), 1,2,4-TMB, and naphthalene. Results of the laboratory analyses for wells sampled are summarized in Appendix C. Laboratory report forms are presented in Appendix D.

Monitoring well MW1 was non-detect for compounds targeted by the analysis. The compounds 1,3,5-TMB and 1,2,4-TMB were present in the sample collected from monitoring well MW2 at concentrations above their respective VGES. Concentrations of ethylbenzene, xylenes, and naphthalene were reported below their respective VGES in the sample collected from MW2. Benzene, 1,3,5-TMB, 1,2,4-TMB, and naphthalene were detected in the sample collected form MW3 at concentrations above the respective VGES; concentrations of toluene, ethylbenzene, and xylenes were detected below their applicable VGES in the sample collected from monitoring well MW3.

Total 8021B VOC results were plotted on the site map to generate the Contaminant Concentration Map presented in Appendix A. The June 27, 2000 contaminant distribution indicates that contaminant concentrations are present to the northeast and east side of the former/current USTs. The upgradient and down-gradient extents of the contaminant plume have not been fully defined.

Samples were collected according to Griffin's groundwater sampling protocol which complies with industry and state standards. Results from the analyses of the trip blank sample and duplicate sample indicate that adequate quality assurance and control (QA/QC) were maintained during sample collection and analysis.

C. Soil Stockpile Screening

On June 27, 2000, Griffin conducted screening of the 50 cubic yard soil stockpile for VOCs using an HNu™ Model HW-101 PID equipped with a 10.2 electron-volt lamp. Prior to screening, the PID was properly calibrated according to Griffin protocol and the manufacturer's recommendation. Eight soil samples were collected from the stockpile with the use of a hand auger; the sample locations were distributed in location and depth to yield samples statistically representative of the stockpile. Screening was conducted via Griffin's Jar/Polyethylene Bag Headspace Screening Protocol which meets State and industry standards. Soil screening results are summarized in the table below.

Sample #	*Depth (feet)*	*VOCs (ppm)*
1	4	0.2
2	4	0.2
3	3.5	0.4
4	3	0.3
5	2.5	0.6
6	3	0.3
7	4	1.2
8	2.5	0.4
Average		0.5

The average concentration of VOCs in the soil pile was 0.5 ppm. No visual or olfactory indications of petroleum contamination were evident.

D. Sensitive Receptor Risk Assessment

A visual survey of the area surrounding the site was conducted during this monitoring event. Based on these observations, an estimate of the potential risk to identified receptors was made based on proximity to the source area.

Water Supplies

According to Mr. Bruce Atkinson of the West Rutland Water Department, the site building and buildings in the vicinity of the site have connections to municipal sanitary sewer and water systems [5]. The source of water for this area of West Rutland is an aquifer and storage reservoir located at the end of Fairview Street, approximately one-third to one-half mile southeast of the McGann Mobil site. According to Mr. Atkinson, the water source was sampled on August 1, 2000 for the presence of VOCs. The sample was submitted to SciTest Laboratory of Randolph, Vermont for analysis per EPA Method 524.2. According to Mr. Atkinson, none of the compounds targeted by the analysis were detected in excess of method detection limits.

Due to the distance between the water source and the site, and the fact that no VOCs were detected in the drinking water sample collected from the municipal supply on August 1, 2000, the municipal water supply is likely at little risk of contamination from the petroleum contamination present at the McGann Mobil site.

Buildings in the Vicinity

The service building is the only building located on the subject property. The on-site building is constructed on a slab foundation. The nearest building to McGann's Mobil is Bailey Motors located to the east of the site beyond a drainage swale. This building is also constructed on a slab foundation. The nearest residence is located southwest of the site in a hydraulically cross-gradient direction. To the north, across Route 4a are the Westside Napa, an apartment house; and the Rite Aide Pharmacy, the foundation construction of these buildings is not known.

Due to the fact that the downgradient extent of the contaminant plume has not been defined, it is possible that area buildings may be at risk of petroleum vapor migration.

The majority of the area downgradient of the source site is paved reducing potential risk of exposure to petroleum compounds through dermal contact with soils or inhalation of vapors.

Surface Water

The closest surface water body is the Clarendon River, located approximately 2,000 feet southeast of the site. Given the relatively low source area strength, and the distance between the water body and the source, the Clarendon River is not anticipated to be at risk from the subject site.

Utility Corridors

Water and sewer service are provided to the on site building via underground utility corridors. Groundwater is found at approximately 6.5 to 7.5 feet below grade at the site; this elevation is deeper than the elevation (4 to 5 feet below grade) where utilities are typically found. Based on visual inspection, several underground utilities exist in the vicinity of the site (i.e., storm sewer, sanitary sewer, a drainage swale, and municipal water service). Given the relatively low source strength and the groundwater elevation at the site, the potential for dissolved contaminant migration through utility corridors is considered negligible.

IV. CONCLUSIONS

Based on the initial site investigation of petroleum contamination associated with the permanent closure of two 6,000-gallon gasoline USTs, the following conclusions are offered:

1. As displayed on the groundwater contour map included in Appendix A, the groundwater flow direction for June 27, 2000 was estimated to be directed toward the north-northeast at a gradient of 0.3%.

2. No free phase petroleum product was observed in the monitoring wells gauged on June 27, 2000.

3. Monitoring well MW1 was non-detect for compounds targeted by the laboratory analysis.

4. The compounds 1,3,5-TMB and 1,2,4-TMB were present in the sample collected from monitoring well MW2 at concentrations above their respective VGES. Concentrations of ethylbenzene, xylenes, and naphthalene were reported below their respective VGES in the sample collected from MW2.

5. Benzene, 1,3,5-TMB, 1,2,4-TMB, and napthalene were detected in the sample collected form MW3 at concentrations above the respective VGES; concentrations of toluene, ethylbenzene, and xylenes were detected below their applicable VGES in the sample collected from monitoring well MW3.

6. The downgradient extent of the contaminant plume has not been defined.

REFERENCES

1. Griffin International, Inc., *UST Closure Report, McGanns Mobil, West Rutland, Vermont,* November 26, 1997

2. Doll, Charles G., ed., 1961, Centennial Geologic Map of Vermont, State of Vermont.

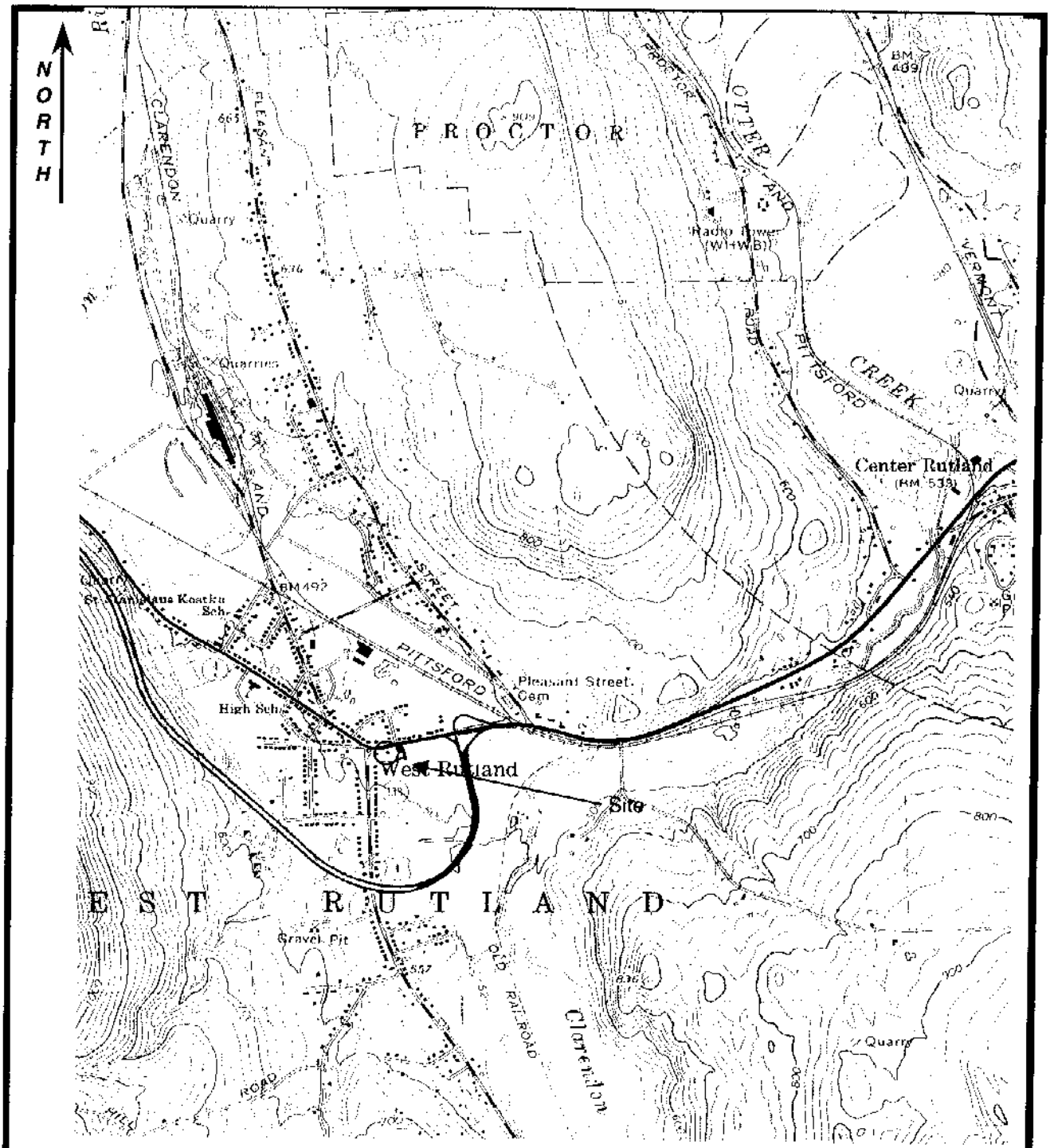
3. Doll, Charles G., ed., 1970, Surficial Geologic Map of Vermont, State of Vermont.

4. VTDEC Waste Management Division, Waterbury, VT, historical information, April 27, 1998.

5. Mr. Bruce Atkinson, West Rutland Water Department, telephone interview, September 19, 2000.

Appendix A

Maps



Griffin Job Number: *40041688* VTDEC Site#: *89-0356*

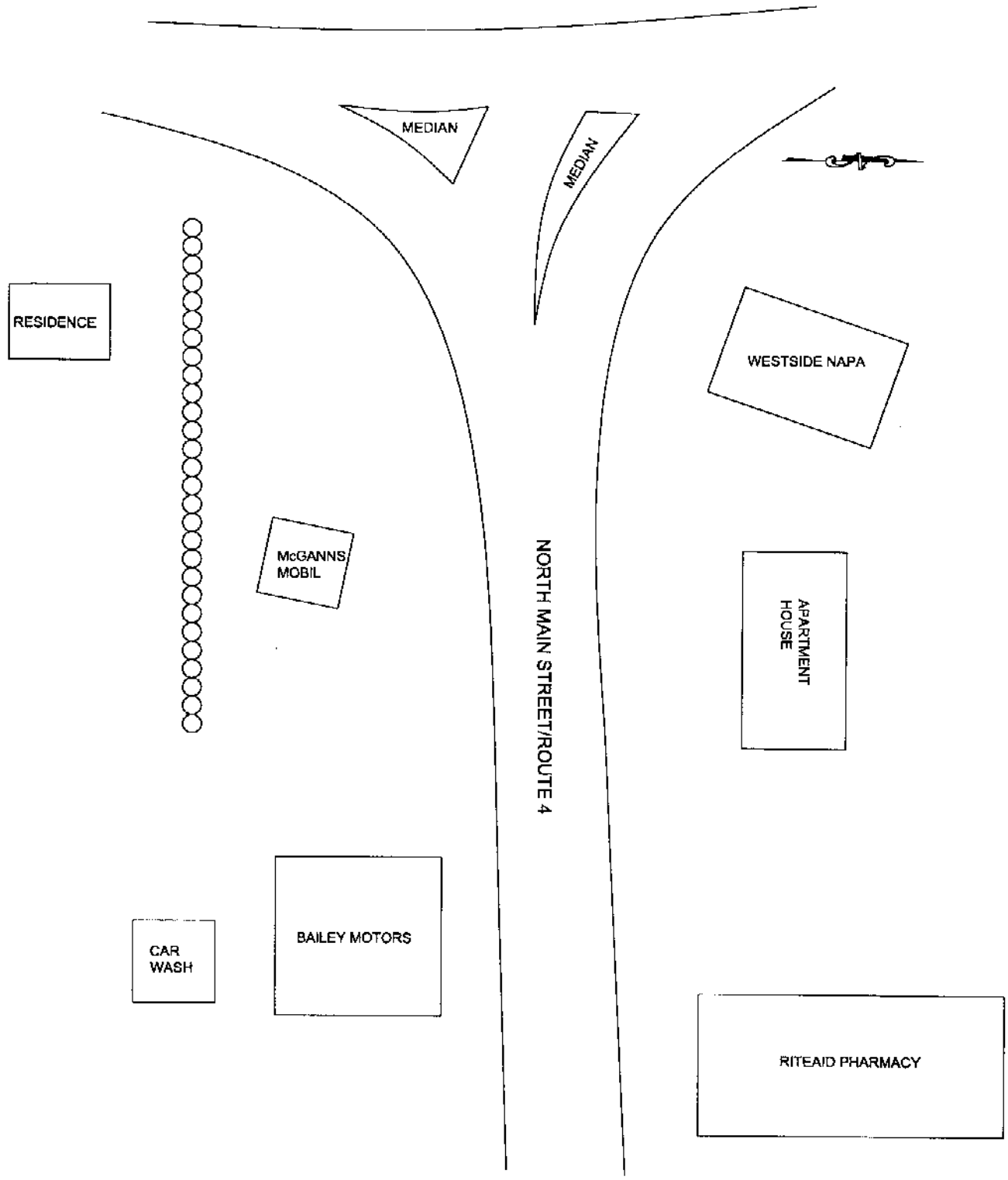
Source: *USGS Mapping West Rutland Quadrangle 1972*

GRIFFIN INTERNATIONAL

McGanns Mobil
West Rutland, Vermont

Site Location Map
USGS Mapping

Date: 09/19/00	Drawing No. 0	Scale: 1:24,000	By: RH



JOB #: 40041688

VTDEC SITE #: 89-0356

BASED ON FIELD OBSERVATIONS BY GRIFFIN INTERNATIONAL, 8/27/00

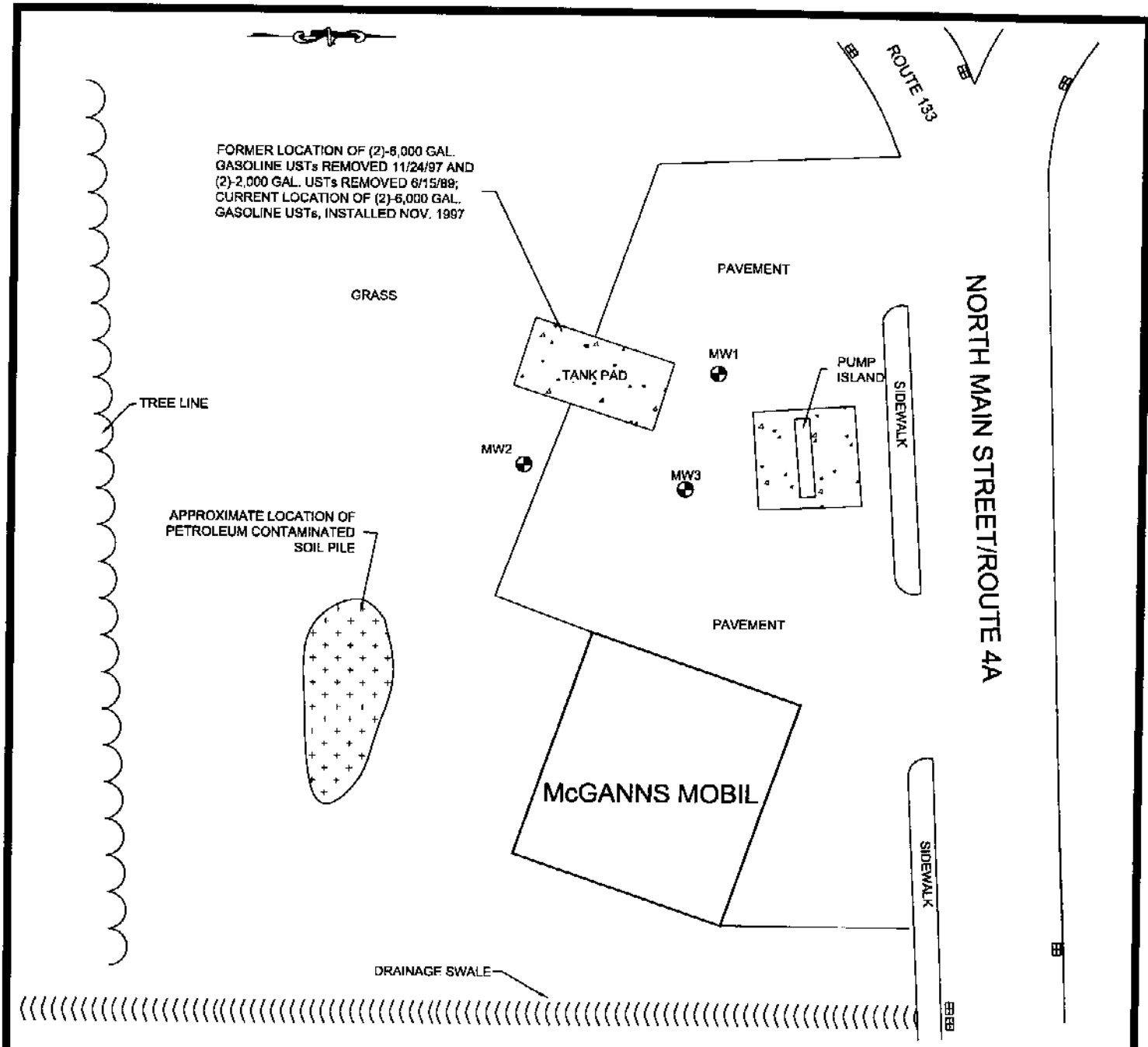
GRIFFIN INTERNATIONAL INC

McGANNS MOBIL

169 NORTH MAIN STREET
WEST RUTLAND, VERMONT

AREA MAP

DATE: 9/18/00	DWG.#: 1	SCALE: NTS	DRN.: MP	APP.: RH



JOB #: 40041688 VTDEC SITE #: 88-0356 SITE SURVEY BY GRIFFIN INTERNATIONAL, 6/27/00

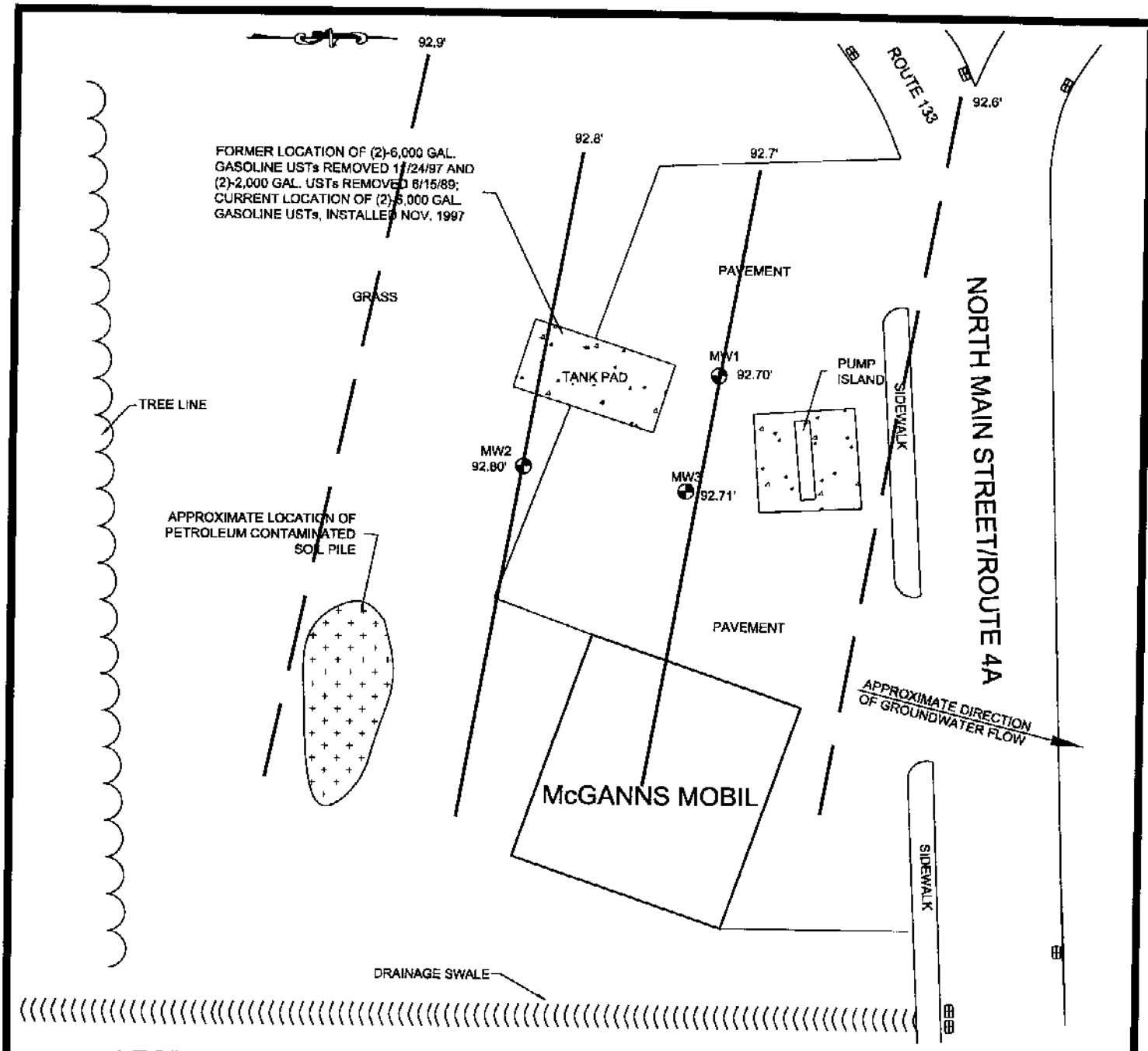
GRIFFIN INTERNATIONAL INC

McGANNS MOBIL

169 NORTH MAIN STREET
WEST RUTLAND, VERMONT

SITE MAP

DATE: 9/18/00	DWG.#: 2	SCALE: 1" = 30'	DRN.: MP	APP.: RH



LEGEND

MW1
92.70' — MONITORING WELL WITH GROUNDWATER ELEVATION (ft)

CATCH BASIN

92.8' — GROUNDWATER CONTOUR ELEVATION (ft) (DASHED WHERE INFERRED)

JOB #: 40041688

VTDEC SITE #: 89-0356

SITE SURVEY BY GRIFFIN INTERNATIONAL, 6/27/00

GRIFFIN INTERNATIONAL INC

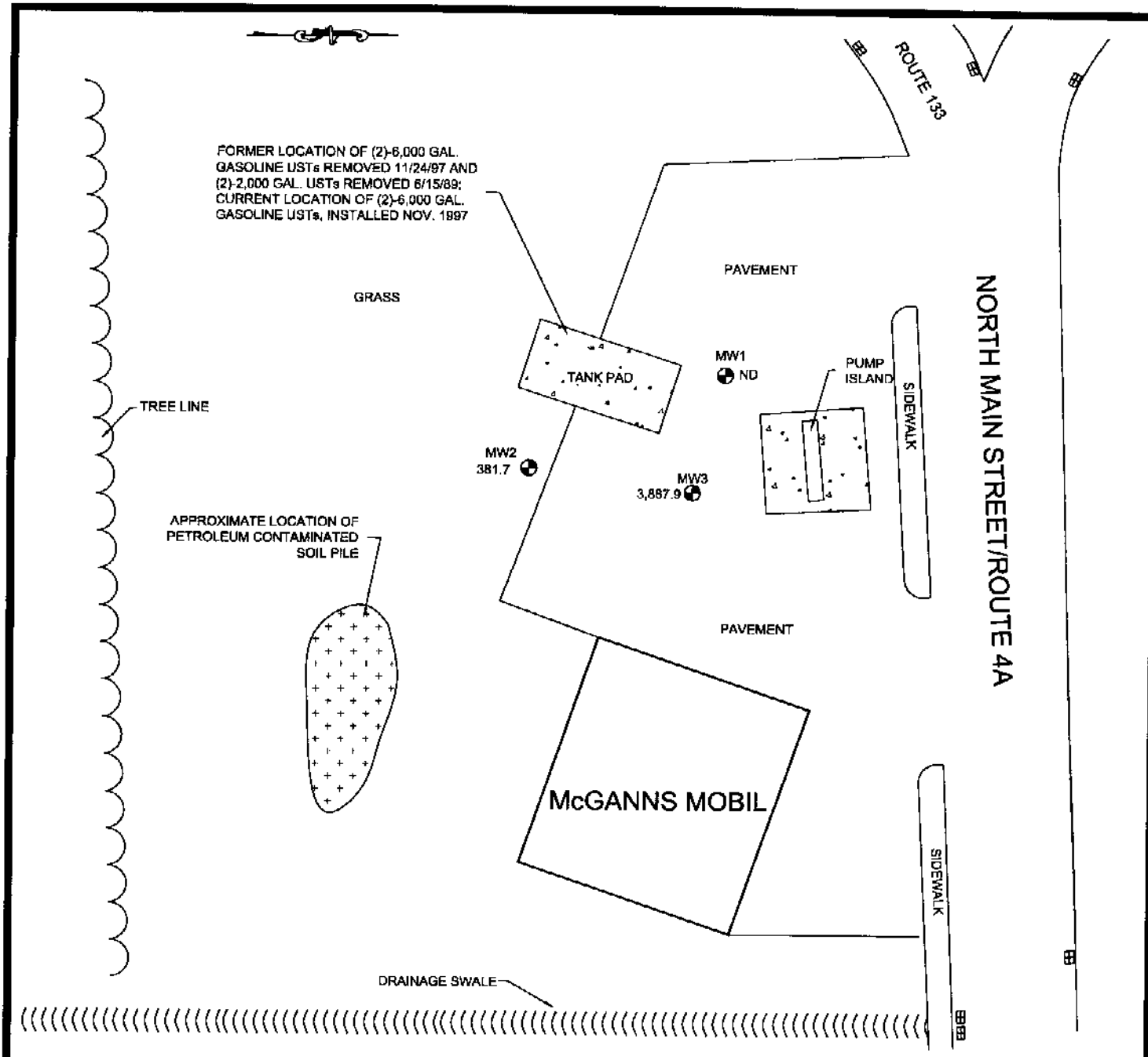
McGANNS MOBIL

169 NORTH MAIN STREET
WEST RUTLAND, VERMONT

GROUNDWATER CONTOUR MAP

MEASURED: 6/27/00

DATE: 9/18/00	DWG.#: 3	SCALE: 1" = 30'	DRN.: MP	APP.: RH



LEGEND

MW2 381.7	MONITORING WELL WITH TOTAL VOC CONCENTRATION (ppb)
⊞	CATCH BASIN
ND	NON-DETECT

JOB #: 40041688 VTDEC SITE #: 89-0356 SITE SURVEY BY GRIFFIN INTERNATIONAL, 8/27/00

GRIFFIN INTERNATIONAL INC

McGANNS MOBIL

169 NORTH MAIN STREET
WEST RUTLAND, VERMONT

CONTAMINANT CONCENTRATION MAP

SAMPLED: 8/27/00

DATE: 9/18/00	DWG.#: 4	SCALE: 1" = 30'	DRN.: MP	APP.: RH

Appendix B

Liquid Level Monitoring Data

Liquid Level Monitoring Data

Monitoring Date: 6/27/00

Well I.D.	Top of Casing Elevation	Depth To Product	Depth To Water	Product Thickness	Specific Gravity Of Product	Hydro Equivalent	Corrected Depth To Water	Corrected Water Table Elevation
MW-1	**99.27**	-	**6.57**	-	-	-	-	**92.70**
MW-2	**100.00**	-	**7.20**	-	-	-	-	**92.80**
MW-3	**99.18**	-	**6.47**	-	-	-	-	**92.71**

Values presented in units of feet

Top-of-casing data from Griffin survey 6/27/00

Arbitrary datum of 100 feet set at top-of-casing for MW-2

Appendix C

Groundwater Quality Summary

Groundwater Quality Summary

PARAMETER	MW1				Enforcement Standard
	6/27/00				
Benzene	<1.0				5
Toluene	<1.0				1,000
Ethylbenzene	<1.0				700
Xylenes	<1.0				10,000
Total BTEX					-
MTBE	<10.0				40
1,3,5-Trimethylbenzene	<1.0				4
1,2,4-Trimethylbenzene	<1.0				5
Naphthalene	<1.0				20
Total VOCs					-

PARAMETER	MW2				Enforcement Standard
	6/27/00				
Benzene	<5.0				5
Toluene	<5.0				1,000
Ethylbenzene	**30.0**				700
Xylenes	**179.**				10,000
Total BTEX	**209.0**				-
MTBE	<50.0				40
1,3,5-Trimethylbenzene	**59.7**				4
1,2,4-Trimethylbenzene	**106.**				5
Naphthalene	**7.0**				20
Total VOCs	**381.7**				-

PARAMETER	MW3				Enforcement Standard
	6/27/00				
Benzene	**503.**				5
Toluene	**54.9**				1,000
Ethylbenzene	**408.**				700
Xylenes	**2,110.**				10,000
Total BTEX	**3075.9**				-
MTBE	<200				40
1,3,5-Trimethylbenzene	**171.**				4
1,2,4-Trimethylbenzene	**518.**				5
Naphthalene	**123.**				20
Total VOCs	**3887.9**				-

VGES = Vermont Groundwater Enforcement Standard (1/20/00)
All Values Reported in ug/L (ppb)
Detections are in **bold**.
<1 - less than detection limit (1)
Analysis by EPA Method 8021B.

>VGES
NA - not analyzed

ENDYNE, INC.

Laboratory Services

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

LABORATORY REPORT

Griffin International
PO Box 943
Williston, VT 05495
Attn: Rob Higgins

PROJECT: McGanns Mobil/#40041688
ORDER ID: 8143
RECEIVE DATE: June 28, 2000
REPORT DATE: July 6, 2000

Enclosed please find the results of the analyses performed for the samples referenced on the attached chain of custody. Different groups of analyses may be reported under separate cover.

All samples were prepared and analyzed by requirements outlined in the referenced methods and within the specified holding times.

All instrumentation was calibrated with the appropriate frequency and verified by the requirements outlined in the referenced methods.

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

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

Reviewed by,

Harry B. Locker, Ph.D.
Laboratory Director

enclosures

ENDYNE, INC.

Laboratory Services

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

LABORATORY REPORT

CLIENT: Griffin International
PROJECT: McGanns Mobil/#40041688
REPORT DATE: July 6, 2000

ORDER ID: 8143
DATE RECEIVED: June 28, 2000
SAMPLER: DT/LT

Site: Trip Blank
Ref. Number: 157686
Anal. Method: SW 8021B
Date Sampled: 6/27/00
Time Sampled: 7:12 AM
Analysis Date: 7/2/00
Analyst: 555

Parameter	Results ug/L
MTBE	< 10.0
Benzene	< 1.0
Toluene	< 1.0
Ethylbenzene	< 1.0
Xylenes, Total	< 1.0
1,3,5 Trimethyl Benzene	< 1.0
1,2,4 Trimethyl Benzene	< 1.0
Naphthalene	< 1.0
UIP's	0.
Surrogate 1	92.%

Site: Duplicate
Ref. Number: 157688
Anal. Method: SW 8021B
Date Sampled: 6/27/00
Time Sampled: 2:05 PM
Analysis Date: 7/3/00
Analyst: 555

Parameter	Results ug/L
MTBE	< 200.
Benzene	534.
Toluene	60.9
Ethylbenzene	447.
Xylenes, Total	2,340.
1,3,5 Trimethyl Benzene	181.
1,2,4 Trimethyl Benzene	567.
Naphthalene	135.
UIP's	>10.
Surrogate 1	89.%

Site: MW #1
Ref. Number: 157690
Anal. Method: SW 8021B
Date Sampled: 6/27/00
Time Sampled: 2:30 PM
Analysis Date: 7/2/00
Analyst: 555

Parameter	Results ug/L
MTBE	< 10.0
Benzene	< 1.0
Toluene	< 1.0
Ethylbenzene	< 1.0
Xylenes, Total	< 1.0
1,3,5 Trimethyl Benzene	< 1.0
1,2,4 Trimethyl Benzene	< 1.0
Naphthalene	< 1.0
UIP's	0.
Surrogate 1	90.%

Site: MW #3
Ref. Number: 157687
Anal. Method: SW 8021B
Date Sampled: 6/27/00
Time Sampled: 2:05 PM
Analysis Date: 7/3/00
Analyst: 555

Parameter	Results ug/L
MTBE	< 200.
Benzene	503.
Toluene	54.9
Ethylbenzene	408.
Xylenes, Total	2,110.
1,3,5 Trimethyl Benzene	171.
1,2,4 Trimethyl Benzene	518.
Naphthalene	123.
UIP's	>10.
Surrogate 1	91.%

Site: MW #2
Ref. Number: 157689
Anal. Method: SW 8021B
Date Sampled: 6/27/00
Time Sampled: 2:23 PM
Analysis Date: 7/3/00
Analyst: 555

Parameter	Results ug/L
MTBE	< 50.0
Benzene	< 5.0
Toluene	< 5.0
Ethylbenzene	30.0
Xylenes, Total	179.
1,3,5 Trimethyl Benzene	59.7
1,2,4 Trimethyl Benzene	106.
Naphthalene	7.0
UIP's	>10.
Surrogate 1	96.%

39247

ENDYNE, INC.

160 James Brown Drive
Williston, Vermont 05495
(802) 879-4333

40041688

CHAIN-OF-CUSTODY-RECORD

Project Name: McGRATH'S MOBIL W. RUTLAND	Reporting Address: GRIFFIN	Billing Address:
Endyne Order ID: (Lab Use Only) 8143 (-O, -I, -S)	Company: Contact Name/Phone #: ROB HIGGINS	Sampler Name: DON TOGRANGER / Phone #: LAURA TERRACC

Ref # (Lab Use Only)	Sample Identification	Matrix	GRAB	COMP	Date/Time 6-27-00	Sample Containers No.	Sample Containers Type/Size	Field Results/Remarks	Analysis Required	Sample Preservation	Rush
157686	TRIP BLANK	H2O	X		07:12	2	40mL		19	HCL	
157687	MW#3				14:05						
157688	DUPLICATE				14:05						
157689	MW# 2				14:23						
157690	MW#1				14:30						

Relinquished by:	Date/Time	Received by:	Date/Time	Received by:	Date/Time
Don Tango	6/27/00 17:15	Stacy Benjamin	6-28-00 10:30am	Quinn Young	6-28-00 10:40

New York State Project: Yes ___ No X

Requested Analyses

1	pH	6	TKN	11	Total Solids	16	Sulfate	21	1664 TPH/FOG	26	8270 PAH
2	Chloride	7	Total P	12	TSS	17	Coliform (Specify)	22	8015 GRO	27	PP13 Metals
3	Ammonia N	8	Total Diss. P	13	TDS	18	COD	23	8015 DRO	28	RCRA8 Metals
4	Nitrite N	9	BOD	14	Turbidity	19	8021B	24	8260/8260B	29	
5	Nitrate N	10	Alkalinity	15	Conductivity	20	8010/8020	25	8270 B/N or Acid	30	
31	Metals (As Is, Total, Diss.) Ag, Al, As, B, Ba, Be, Ca, Cd, Co, Cr, Cu, Fe, Hg, K, Mg, Mn, Mo, Na, Ni, Pb, Sb, Se, Si, Sr, Ti, Tl, V, Zn										
32	TCLP (Specify: volatiles, semi-volatiles, metals, pesticides, herbicides)					33					
34	Other										

(White, Yellow, Pink Copy - Laboratory / Goldenrod Copy - Client)

ENDYNE, INC.

160 James Brown Drive
Williston, Vermont 05495
(802) 879-4333

CHAIN-OF-CUSTODY-RECORD

Project Name:	Reporting Address:	Billing Address:
Endyne Order ID: (Lab Use Only) -O -I -S	Company: Contact Name/Phone #:	Sampler Name: Phone #:

Ref # (Lab Use Only)	Sample Identification	Matrix	GRAB	COMP	Date/Time	Sample Containers No.	Sample Containers Type/Size	Field Results/Remarks	Analysis Required	Sample Preservation	Rush

Relinquished by:	Date/Time	Received by:	Date/Time	Received by:	Date/Time

New York State Project: Yes ____ No X

Requested Analyses

1	pH	6	TKN	11	Total Solids	16	Sulfate	21	1664 TPH/FOG	26	8270 PAH
2	Chloride	7	Total P	12	TSS	17	Coliform (Specify)	22	8015 GRO	27	PP13 Metals
3	Ammonia N	8	Total Diss. P	13	TDS	18	COD	23	8015 DRO	28	RCRA8 Metals
4	Nitrite N	9	BOD	14	Turbidity	19	8021B	24	8260/8260B	29	
5	Nitrate N	10	Alkalinity	15	Conductivity	20	8010/8020	25	8270 B/N or Acid	30	
31	Metals (As Is, Total, Diss.) Ag, Al, As, B, Ba, Be, Ca, Cd, Co, Cr, Cu, Fe, Hg, K, Mg, Mn, Mo, Na, Ni, Pb, Sb, Se, Si, Sr, Ti, Tl, V, Zn										
32	TCLP (Specify: volatiles, semi-volatiles, metals, pesticides, herbicides)					33					
34	Other										

(White, Yellow, Pink Copy - Laboratory / Goldenrod Copy - Client)