



March 3 10 46 AM '97

March 3, 1997

Mr. Chuck Schwer
State of Vermont
Department of Environmental Conservation
Waste Management Division
103 South Main Street / West Building
Waterbury, VT 05671-0404

RE: Phase II Environmental Site Assessment at Demarests' Country Store,
Route 100, Pittsfield, Vermont

Dear Mr. Schwer:

Enclosed please find a copy of Griffin's Phase II Environmental Site Assessment Report for the Demarests' Country Store property on Route 100 in Pittsfield. Only minor petroleum contamination was detected in the groundwater at this property during our investigation. Benzene was detected at a concentration of 1.3 ppb in the groundwater sample collected from downgradient monitoring well GI-2, below the drinking water standard for this compound. Investigation results do not indicate the need for further investigation at this property. In addition, the groundwater analytical data suggest that additional groundwater monitoring is not necessary for this property.

Griffin has been instructed to forward this report to you for your review. If your review of this report determines that the Sites Management Section will not require further work at this site, our client would like you to prepare a "Site Management Activity Not Required" letter in a similar format to the attached sample letter from the Small Business Administration. The imminent sale of this property may hinge on whether this letter is obtained.

Mr. Chuck Schwer

March 3, 1997

Page 2

If you have any questions about the findings of this assessment or if you would like to discuss this project in general, please call. Thanks in advance for your prompt attention to this matter.

Sincerely,

A handwritten signature in black ink that reads "Kevin McGraw". The signature is written in a cursive style with a prominent "K" and "M".

Kevin McGraw
Hydrogeologist

Enclosure

cc: Bill Meub, Keyser, Crowley, & Meub (without enclosure)
Dan Stannard, Factory Point National Bank (without enclosure)

**REPORT ON THE
PHASE II ENVIRONMENTAL
SITE ASSESSMENT**
at
**DEMARESTS' COUNTRY STORE
ROUTE 100
PITTSFIELD, VERMONT**

FEBRUARY 1997

Prepared for:

Factory Point National Bank
Manchester Center, VT 05255

Prepared by:



P.O. Box 943
Williston, Vermont 05495
(802) 865-4288

Griffin Project #: 1975221

Handwritten stamp: Feb 27 10 26 AM '97

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I. INTRODUCTION

This report summarizes the Phase II Environmental Site Assessment conducted at Demarests' Country Store, located on Route 100 in Pittsfield, Vermont (see Site Location Map and Site Sketch, Appendix A). The following investigation has been conducted to help determine if the subject property has been adversely impacted from on-site activities or from surrounding properties. Included in the report are the findings from the vibratory drilling, the air rotary drilling, and the groundwater sampling performed at the property. This work has been completed for Factory Point National Bank by Griffin International, Inc. (Griffin).

II. SITE BACKGROUND

In August, 1995, a *Phase I Limited Site Assessment* report was prepared for the property by Aronson & Olson, Inc. (see Ref. 1). This report revealed that three (3) 4,000-gallon, gasoline underground storage tanks (USTs) were removed from the property in 1987. These tanks had been installed at the property in 1974. These tanks were located in the same area as the present gasoline USTs. No information was on file at the Vermont Department of Environmental Conservation (VTDEC) regarding the condition of the former tanks upon removal.

The Phase I report also indicated that in December, 1993, a 500-gallon gasoline UST had been removed at the Pittsfield Volunteer Fire Department located immediately north of the subject property. Griffin performed the site assessment during this tank closure. Contaminated soils were identified in the tank excavation. Approximately five cubic yards of contaminated soil were stockpiled off-site on plastic. A sheen was observed on the groundwater which was present in the excavation at approximately eight feet below grade. The VTDEC has requested additional investigations at the Fire Department property, however, no work has been performed to date. This property poses a risk to the subject property since potentially contaminated groundwater, resulting from a gasoline release from this UST, could be migrating toward Demarests' Country Store. The location of the Fire Department is shown on the Site Sketch in Appendix A.

III. SITE DESCRIPTION

The subject property is located in the center of the Town of Pittsfield on the east side of Route 100 and just south of a dirt road which leads to Stanley Tools (see Site Sketch). Based on the topography in the area, the estimated groundwater flow direction beneath the property is likely to the east towards Tweed River, located approximately 2,000 feet east of the subject property. The on-site building contains the (former) Demarests' Country Store as well as the Town of Pittsfield Post Office. Demarests' formerly operated as a retail gasoline station and convenience store.

The area surrounding the site consists of a mix of commercial, industrial and residential uses. Residences are located immediately south and west of the property. Several businesses are present on the west side of Route 100, the Volunteer Fire Department is immediately to the north, and Stanley Tools' manufacturing plant is located to the east. A portion of the area is served by the Town of Pittsfield water supply, however, at least several private drinking water supply wells are in use within 500 feet of the subject property. Demarests' Country Store and the post office reportedly obtain their water from an on-site drilled bedrock well with a yield of 60+ gallons per minute.

Bedrock in the area is mapped as the Pinney Hollow Formation consisting primarily of quartz and schist, according to the *Centennial Geologic Map of Vermont* (Ref. 2). Bedrock is reported to be approximately 70 feet below grade in the area. The *Surficial Geologic Map of Vermont* (Ref. 3) maps the surrounding area as kame terrace. Actual subsurface materials consist primarily of sand and gravel overlying silt.

IV. SUBSURFACE INVESTIGATIONS

A. Vibratory Drilling Method

On February 7, 1997, installation of four monitoring wells was attempted at the subject property by Adams Engineering using a Minirig vibratory drilling rig. SB-1 was drilled between the pump island and the store in the expected downgradient direction from the island. SB-2 was advanced near the southeast corner of the store in the expected downgradient direction from the three gasoline USTs (as well as the former gasoline USTs). SB-3 was drilled to the south of the pump island in the estimated upgradient direction from the UST system. SB-4 was advanced on the north side of the building between the Pittsfield Volunteer Fire Department property and the on-site supply well. The purpose of this well was to determine if gasoline contamination, originating from the Fire Department's former gasoline UST, had impacted the subject property or posed a threat to the on-site supply well. The approximate locations of SB-1, SB-2 and SB-4 are shown as GI-1, GI-2 and GI-4, respectively, on the Site Sketch included in Appendix A. The location of SB-3 is also shown on this map.

None of these borings could be advanced to the water table due to the abundance of cobbles and boulders beneath the site. The water table was observed to be approximately seven feet below grade in MW-1, one of the existing monitoring wells at the site. The following table shows the total depth of each boring:

<u>Boring</u>	<u>Depth</u>
SB-1A	4.1 ft.
SB-1B	6.0 ft.
SB-2	6.6 ft.
SB-3	4.6 ft.
SB-4	1.5 ft.

Borings SB-1A and -1B represent two attempts to install a monitoring well in the vicinity of the pump island. Soils encountered during this drilling consisted of brown, fine to medium sand with a trace of gravel and silt. In addition, significant cobbles or boulders were suspected to exist in the subsurface at the property. Soil samples obtained from the borings were screened for volatile organic compounds (VOCs) using a portable photoionization device (PID). No elevated PID readings were measured in the soils from these borings. In addition, no petroleum odors were observed in these soils.

B. Air Rotary Drilling Method

Due to the apparent abundance of cobbles and boulders beneath the property, an alternative drilling method was determined to be necessary for the successful installation of monitoring wells. On February 21, 1997, three monitoring wells were installed in the general location of former soil borings SB-1, SB-2 and SB-4. These monitoring wells are identified as GI-1, GI-2 and GI-4, respectively. Groundwater was encountered in each soil boring at approximately 8 to 9 feet below grade. Each soil boring was advanced to 15 feet below grade for installation of the well.

The soils from boring GI-1 consisted of brown sand and gravel with little silt from grade to 9 feet below grade. A boulder was present from approximately 6 to 7 feet below grade. Olive silt and clay with a trace of gravel and fine sand were observed from 9 to 15 feet below grade. Petroleum odors were not observed in the soils from this boring, however, PID readings of 260 and 600 parts per million (ppm) were recorded for the soils at the base of the boring, from 9 to 15 feet below grade. Based on the lack of odors in the soils, it is likely that these PID readings were erroneous.

In boring GI-2, the soils consisted primarily of brown sand and gravel with little silt. Cobbles were observed in the first three feet of the boring. Olive silt and clay soils were also observed in this boring, from 8.5 to 15 feet below grade. No suspicious odors were observed in the soils from this boring and no elevated VOC levels were measured using the PID.

The soils from boring GI-4 consisted of light brown sand and gravel with little silt from grade to 4.5 feet below grade. From 4.5 to 6.0 feet below grade, dark reddish brown silt with little clay was observed. From 6 to 12 feet below grade, gravel with some sand and silt was observed. At the base of the soil boring, olive silt was encountered. Petroleum odors were not observed in the soils from this boring, however, PID readings of 98, 200 and 90 ppm were recorded for the soils at various depths. Again, based on the lack of odors in the soils, it is likely that these PID readings were erroneous.

A monitoring well was constructed in each of the three soil borings. The monitoring wells were constructed with two-inch diameter, Schedule 40 PVC riser and 0.010" slotted screen. The screened portion of all three monitoring wells is from approximately 5 to 15 feet below grade. A silica sand pack was placed around the screened portion of each well

and a 1.5-foot thick bentonite seal was placed in the annulus immediately above the sand pack. To complete the construction of each well, a road box was set in concrete at grade level. In addition, locking well caps were placed on the monitoring wells. The boring logs and well construction details for these wells are included in Appendix B.

V. WATER LEVELS AND WATER QUALITY

A. Water Table Elevations

Water table elevation measurements were collected from existing monitoring well MW-1 and newly installed wells GI-1, GI-2 and GI-4 on February 25, 1997. Existing monitoring well MW-2, which is approximately 7 feet deep, was observed to be dry on this date. The new monitoring wells were surveyed in azimuth and elevation relative to the top-of-casing of GI-4 which has been assigned an arbitrary elevation of 100.00 feet. Liquid level monitoring data are presented in Appendix C.

Water table elevations have been plotted and contoured to illustrate the estimated gradient and direction of groundwater flow beneath the site (see Groundwater Contour Map, Appendix A). According to these data, it appears that groundwater is flowing to the southeast at a hydraulic gradient of 0.018 ft./ft.

B. Water Quality

On January 15, 1997, during Griffin's initial visit to Demarests' Country Store, a groundwater sample was collected from monitoring well MW-1. MW-2 was dry on this date. The on-site supply well was sampled on February 13. GI-1, GI-2 and GI-4 were sampled on February 21. All samples were analyzed for petroleum compounds by EPA Method 602.

Benzene, toluene, ethylbenzene and xylenes (BTEX) were not detected in the samples collected from MW-1, GI-4, and the supply well.

Very low concentrations of BTEX were detected in the sample from GI-1. The Vermont drinking water standard of 5 parts per billion (ppb) for benzene was exceeded in this sample. The standards for toluene, ethylbenzene and xylenes were not exceeded in this groundwater sample.

A trace of dissolved benzene was detected at 1.3 ppb in the sample from downgradient monitoring well GI-2, which is below the groundwater standard of 5 ppb for this compound.

The analyses of the submitted trip blanks indicate that proper quality assurance and quality control were maintained during the sampling and analysis.

VI. CONCLUSIONS

Based on the information obtained during this Phase II Environmental Site Assessment, Griffin makes the following conclusions:

1. The drilling activities at the subject property have determined that the sediments beneath the site, from grade to approximately 9 feet below grade, consist of relatively coarse-grained materials including sand, gravel, cobbles and boulders. Below this depth, in the saturated zone, a silt and clay layer was present.
2. Despite several elevated PID readings which indicated the presence of VOCs, no petroleum odors were observed during the advancement of the on-site borings. This may indicate that these PID readings were erroneous since petroleum odors are typically observed at PID readings of approximately 5 ppm.
3. Water table elevations beneath the site indicate that groundwater is flowing to the southeast at a hydraulic gradient of 0.018 ft./ft. This groundwater flow direction suggests that potentially contaminated groundwater from the Volunteer Fire Department property could impact the subject property. However, based on the lack of contamination observed in the soils from boring GI-4 and in the groundwater from this well, it appears that the release of gasoline at the Fire Station has not impacted the subject property in the vicinity of the supply well. In addition, dissolved contamination was not detected in the water sample collected from the supply well.
4. Future impact to the supply well from the Fire Station property is possible although it appears to be unlikely based on the following: (a) the source strength of the gasoline release observed at the Fire Department appeared to be limited based on Griffin's observations during the closure of this 500-gallon UST in 1993, (b) the source of gasoline contamination at the Fire Station has been removed and this tank was not replaced, (c) the Demarests' supply well is not located directly downgradient from the former gasoline tank at the Fire Station, and (d) the supply well is reportedly installed in the bedrock aquifer and is therefore less likely to be impacted from contamination in the overburden aquifer.
5. Very low levels of dissolved BTEX contamination were detected in the groundwater sample collected from GI-1. This indicates that there has been a release of petroleum, likely gasoline, to the subsurface in the vicinity of the pump island. Benzene was the only compound detected at a concentration above its groundwater standard.
6. The trace concentration of benzene detected in downgradient monitoring well GI-2 suggests that dissolved contamination is not likely migrating off-site in significant concentrations.
7. The subsurface investigations conducted during this Phase II indicate only minor contamination present in the groundwater beneath the site. These results suggest that potential petroleum releases from the former gasoline USTs at the site (removed in 1987) and the present gasoline UST system have not resulted in significant degradation of groundwater quality beneath the property.

VII. RECOMMENDATIONS

Based on the results of this Phase II Site Assessment, Griffin does not recommend any additional investigation at this property. However, as per state regulations, the VTDEC should be notified regarding the presence of dissolved BTEX in groundwater beneath the site. In addition, if a site assessment is conducted at the neighboring Fire Department property, results from this investigation should be reviewed to determine the potential for impact to the subject property.

REFERENCES

1. Aronson & Olson, Inc., August 1995, *Phase I Limited Site Assessment*, Demarests' Country Store, Pittsfield, Vermont.
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.

APPENDICES

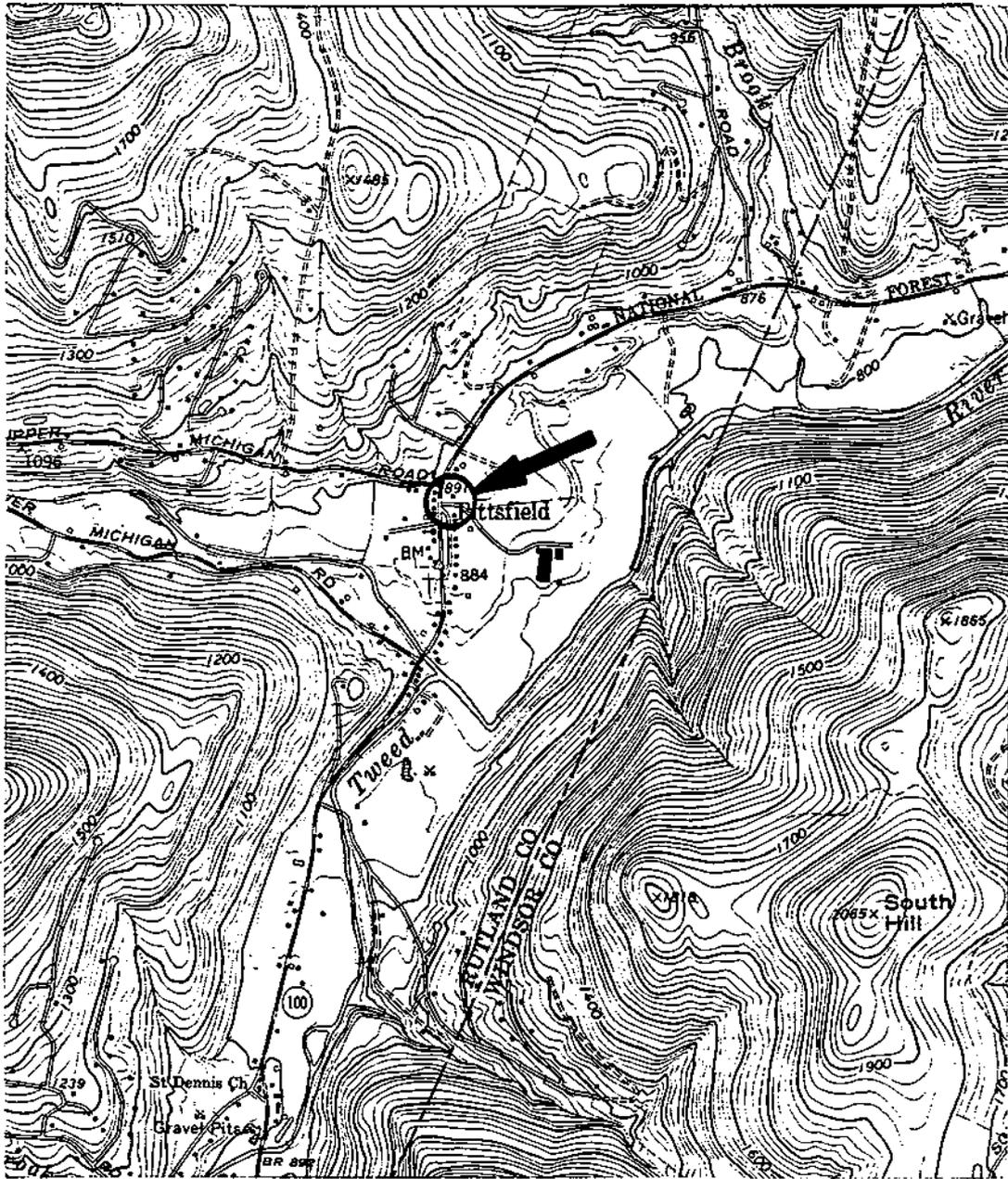
APPENDIX A

Maps

Site Location Map

Site Sketch

Groundwater Contour Map



JOB #: 1975221
 SOURCE: USGS- ROCHESTER, VERMONT QUADRANGLE



FORMER DEMARESTS'
COUNTRY STORE
 ROUTE 100-PITTSFIELD, VERMONT

SITE LOCATION MAP

DATE: 2/27/97	DWG.#:1	SCALE: 1:24000	DRN.:SB	APP.:KM
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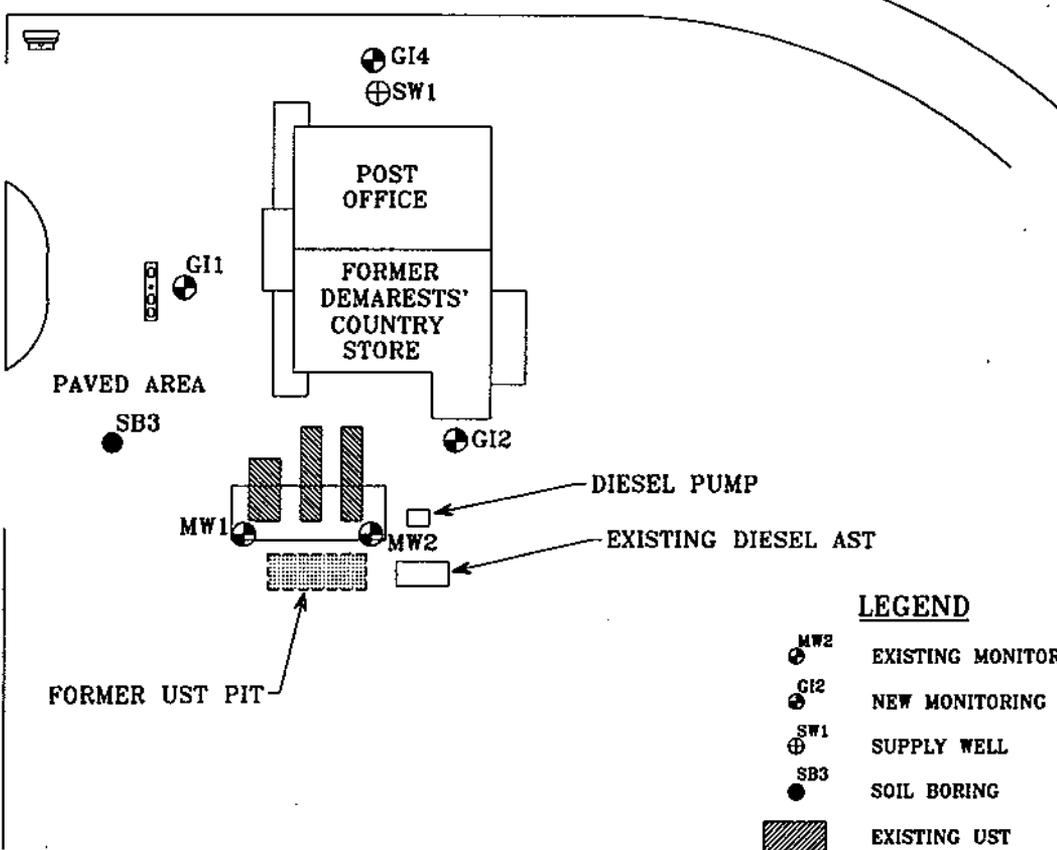
FORMER LOCATION OF
1500 GALLON UST.



PITTSFIELD
VOLUNTEER
FIRE DEPT.

DIRT ROAD

ROUTE 100



LEGEND

- EXISTING MONITORING WELL
- NEW MONITORING WELL
- SUPPLY WELL
- SOIL BORING
- EXISTING UST
- BUSINESS SIGN
- PUMP ISLAND

JOB #: 1975221

NOTE: SITE SKETCH DERIVED FROM SITE DATA SUPPLIED BY K. McGRAW.



**FORMER DEMARESTS'
COUNTRY STORE**
ROUTE 100-PITTSFIELD, VERMONT

SITE SKETCH

DATE: 2/26/97	DWG.#: 2	SCALE: 1"=50'	DRN.:SB	APP.:KM
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APPENDIX B

Boring Logs

1975221

BORING LOG

TriState / Neal Fau / Knz

T. Kelly

GI-1
Boring no: A401

Deck Start 2-21-97
Finish 2-21-97
Method: Odey
Boring Ø = 4"
TD = 15'

Page 1 of 1

Time	Sample No.	Depth (ft)	Blows/ 6" (140 lb.)	Pen/ Rec (")	PID	Description and Comments
1114		0-1'				Begin drilling
		1'-6'				Asphalt, concrete, road bed
		6'-7'				med brn sand and gravel w/ a little silt, moist,
		7'-9'				Boulder
		9'-15'				lt brn fin-med sand w/ a little silt and some fine gravel, moist
						water @ 9'
					260, 600	olive, silt and clay, w/ a ^{trace} little gravel & trace fine sand
						TD = 15'

Prepared by: TJK



PZ101

Well Construction Diagram

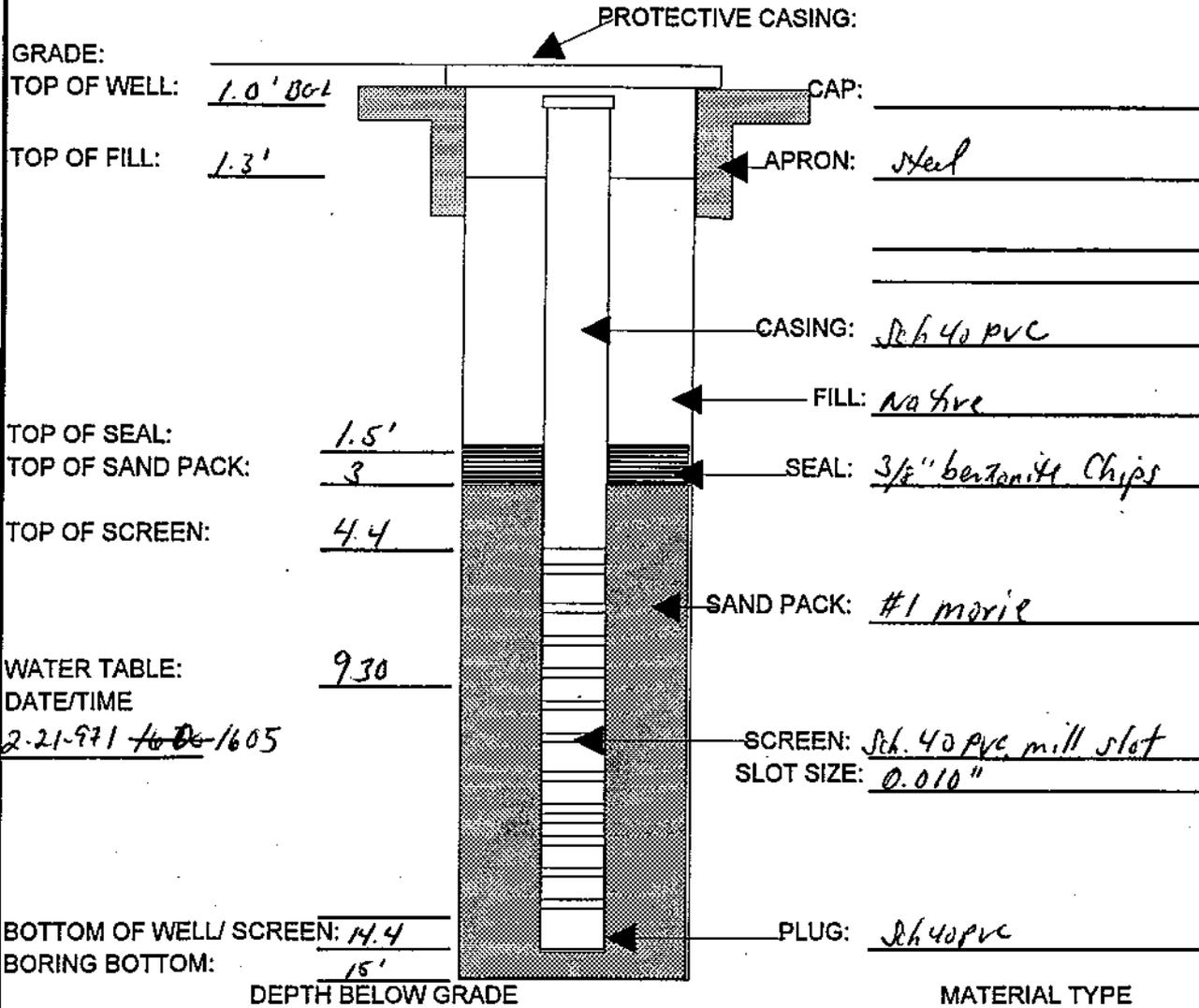
GI-1

PROJECT NAME:

Well no: 19661

Griffin Project #: 1975221
 Drilled by: Tri-Nate
 Driller: N. Faulkner
 Supervised by: Griffin International
 Logged by: T. Kelly

Date Installed: 2-21-97
 Drilling Method: Odex
 Boring Diameter: 4"
 Well Inside Diameter: 2"
 Development Method: bailing



Prepared by: TJK

Approved By: _____

Griffin International
 PO Box 943
 Williston, Vermont
 (802) 865 - 4288



BORING LOG

Boring no: ~~1111-3~~
GI-2

Page 1 of 1

Griffin Project #: 1975221
 Drilled by: Tri State
 Driller: N Faulkner
 Supervised by: Griffin International
 Logged by: T. Kelly
 Date Started: 2-21-97
 Date Finished: 2-21-97
 Protection Level: D

Drilling Method: Odex
 Pilot Boring Dia.: —
 Final Boring Dia.: 4"
 DTW from grade:
 DTW Date/Time:
 Total Depth: 15
 PID: DZ 101
 Soil Drilled:

Time	Sample No.	Depth (ft)	Blows/ 6" (140 lb.)	Pen/ Rec (")	PID	Description and Comments
0925		0-6"				0925 Begin drilling
		6"-3'				- Asphalt + roadbed
		3'-8.5'				- Reddish brown sand w/ gravel w/ a little silt, cobbles, moist
		8.5'-15'	2+			- Yellowish brown, fine-med sand with some gravel and silt, moist 3 clay
	2-1					○ Olive SILT w/ a trace of fine sand, ^{little} fine gravel, wet
						TD=15'

Prepared by: TJK



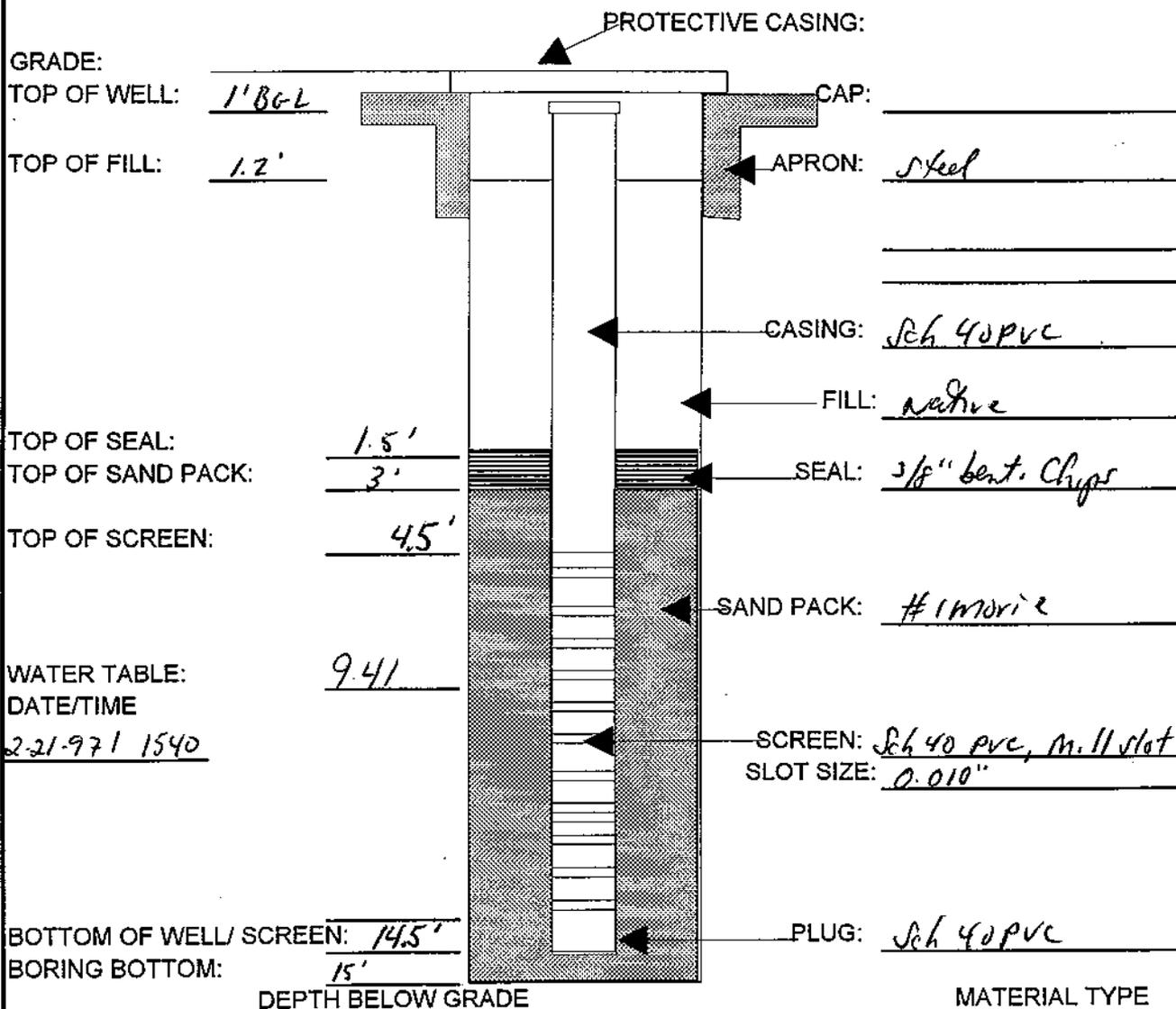
Well Construction Diagram

PROJECT NAME:

Well no: GI-2
~~AW-2~~

Griffin Project #: 1975221
 Drilled by: Tr. Stark
 Driller: N. Faulkner
 Supervised by: Griffin International
 Logged by: TJK

Date Installed: 2-21-97
 Drilling Method: Odex
 Boring Diameter: 4"
 Well Inside Diameter: 2"
 Development Method: soaking



Prepared by: TJK

Griffin International

PO Box 943

Williston, Vermont

(802) 865 - 4288

Approved By:



1975221

BORING LOG

Tristate / N Fault Rd

T. Kelly

GI-4 Boring no: ~~1160-7~~ Dark Start: 2-21-97
Finish 2-21-97

Method: Ody

Boring diam: 4"

TD=15'

Page 1 of 1

Time	Sample No.	Depth (ft)	Blows/ 6" (140 lb.)	Pen/ Rec (")	PID	Description and Comments
1325						Begin drilling
	0-0.5					gravel parking lot
	0.5-4.5					lt-lt brn sand and gravel w a little silt, moist
	4-1	4.5-6			98	DK reddish brn silt w a little clay, trace sand & gravel
	6-10'					lt brn to orange brown gravel w some sand and silt
	4-2	10'-11'			200	clean, fine, gravel
	11'-12					Med brn Gravel w ^{some} sand and silt
	4-3	12			90	olive silt
	12	13-15				TD=15'

Prepared by: TJK



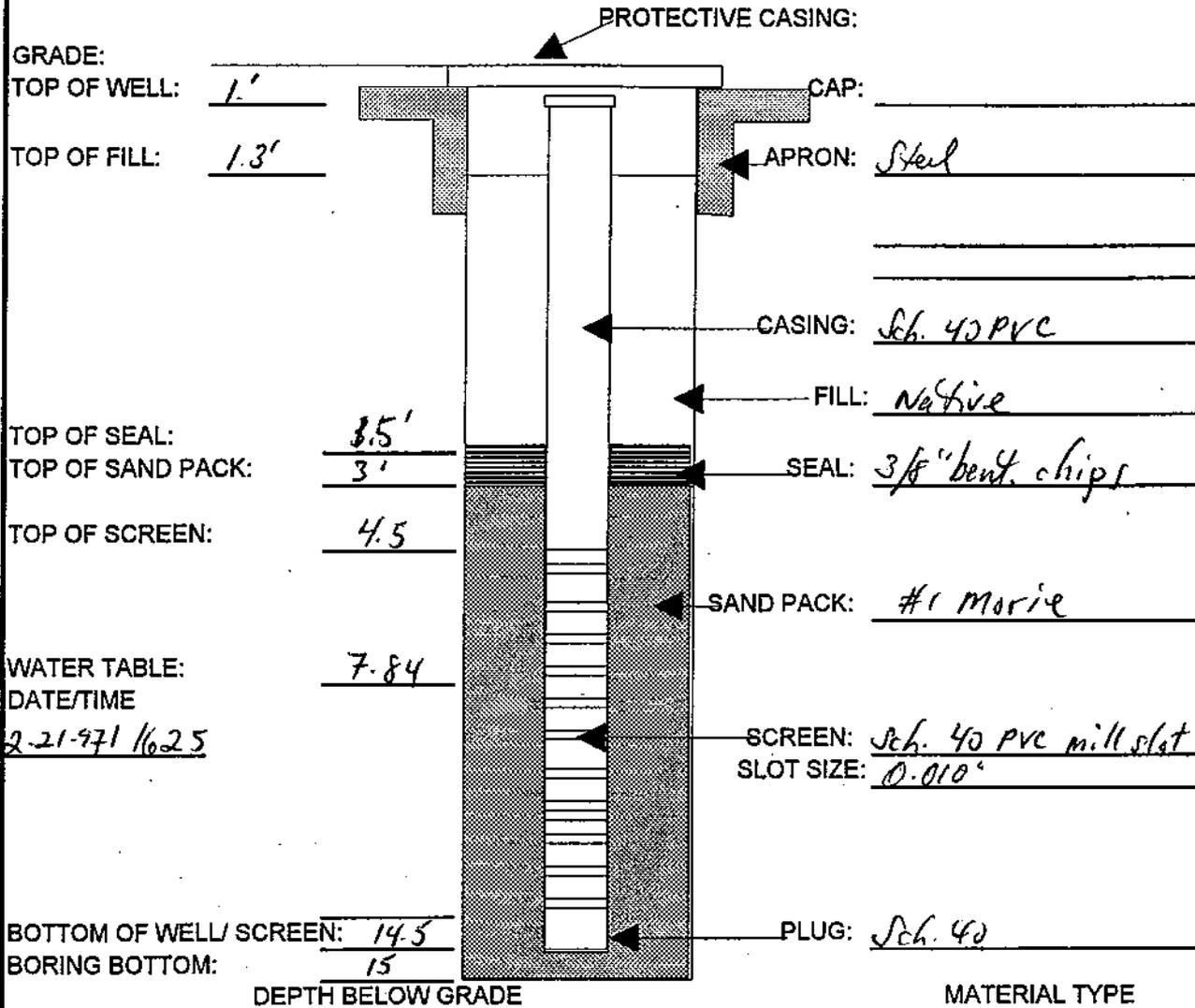
Well Construction Diagram

PROJECT NAME:

Well no: GI-4
~~AT-44~~

Griffin Project #: 1975221
 Drilled by: Tri State
 Driller: No Faulkner
 Supervised by: Griffin International
 Logged by: T Kelly

Date Installed: 2-21-97
 Drilling Method: Odex
 Boring Diameter: 4"
 Well Inside Diameter: 2"
 Development Method: bailing



Prepared by: TJK

Griffin International
 PO Box 943
 Williston, Vermont
 (802) 865 - 4288



Approved By:

APPENDIX C

Water Table Elevation Data

**Liquid Level Monitoring Data
Demarests' Country Store, Pittsfield, VT**

2/25/97

Well I.D.	Well Dept	Top of Casing Elevation	Depth To Product	Depth To Water	Product Thickness	Specific Gravity Of Product	Water Equivalent	Corrected Depth To Water	Corrected Water Table Elevation
MW-1*	11.04	NR		6.82					-
MW-2*	7.25	NR		DRY					-
GI-1	15.00	99.59		5.91					93.68
GI-2	15.00	99.10		6.86					92.24
GI-4	15.00	100.00		6.35					93.65

All Values Reported in Feet

Top-of-Casing Elevations Measured in Feet Relative to GI-4 set at 100.00'

* existing monitoring wells

APPENDIX D

Groundwater Quality Summary

Laboratory Reports

**Groundwater Quality Summary
Demarests' Country Store
Pittsfield, Vermont**

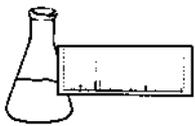
PARAMETER	Sample Point						Applicable Standard (ppb)
	MW-1	MW-2	GI-1	GI-2	GI-4	Supply Well	
Benzene	ND	DRY	43.1	1.3	ND	ND	5. a
Chlorobenzene	ND		ND	ND	ND	ND	100. a
1,2-DCB	ND		ND	ND	ND	ND	600. b
1,3-DCB	ND		ND	ND	ND	ND	600. c
1,4-DCB	ND		ND	ND	ND	ND	75. a
Ethylbenzene	ND		7.9	ND	ND	ND	680. d
Toluene	ND		6.1	ND	ND	ND	1,000. b
Xylenes	ND		15.1	ND	ND	ND	400. d
Total BTEX	ND		72.2	1.3	ND	ND	-
MTBE	ND		ND	ND	ND	ND	40. c
BTEX+MTBE	ND		72.2	1.3	ND	ND	-

All Values Reported in ug/L (ppb)
 ND - None Detected
 TBQ - Trace Below Quantitation Limit

MCL - E.P.A. Maximum Contaminant Level
 HAL - Health Advisory Level
 VGES - Vermont Groundwater Enforcement Standard

MW-1 sampled 1/15/97
 MW-2, -3, -4 sampled 2/21/97
 Supply well sampled 2/13/97

a - MCL and VGES
 b - MCL
 c - HAL
 d - VGES



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: Demarests' Country Store
REPORT DATE: January 23, 1997
DATE SAMPLED: January 15, 1997

PROJECT CODE: GIDC1733
REF.#: 98,924 - 98,925

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

All samples were prepared and analyzed by requirements outlined in the referenced method and within the specified holding times. All instrumentation was calibrated with the appropriate frequency and verified by the requirements outlined in the referenced method. Blank contamination was not observed at levels affecting the analytical results.

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

Individual sample performance was monitored by the addition of surrogate analytes to each sample. All surrogate recovery data was determined to be within laboratory QA/QC guidelines unless otherwise noted.

Reviewed by,

Harry B. Locker, Ph.D.
Laboratory Director

enclosures



EPA METHOD 602--PURGEABLE AROMATICS

CLIENT: Griffin International

DATE RECEIVED: January 16, 1997

PROJECT NAME: Demarests' Country Store

REPORT DATE: January 23, 1997

CLIENT PROJ. #: 1975221

PROJECT CODE: GIDC1733

Ref. #:	98,924	98,925			
Site:	Trip Blank	MW-1			
Date Sampled:	1/15/97	1/15/97			
Time Sampled:	8:15	12:10			
Sampler:	K. McGraw	K. McGraw			
Date Analyzed:	1/22/97	1/22/97			
UIP Count:	0	>10			
Dil. Factor (%):	100	100			
Surr % Rec. (%):	94	94			
Parameter	Conc. (ug/L)	Conc. (ug/L)			
Benzene	<1	<1			
Chlorobenzene	<1	<1			
1,2-Dichlorobenzene	<1	<1			
1,3-Dichlorobenzene	<1	<1			
1,4-Dichlorobenzene	<1	<1			
Ethylbenzene	<1	<1			
Toluene	<1	<1			
Xylenes	<1	<1			
MTBE	<10	<10			

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

CHAIN-OF-CUSTODY RECORD

Job# 1175221

20580

Project Name: <i>Dumfries County Store</i>	Reporting Address: <i>Griffin International</i>	Billing Address: <i>Griffin International</i>
Site Location: <i>Pittsfield, VT</i>		
Endyne Project Number:	Company: <i>Griffin International</i>	Sampler Name: <i>Kevin McGraw</i>
	Contact Name/Phone #: <i>Kevin McGraw / 802-565-4288</i>	Phone #: <i>802-565-4288</i>

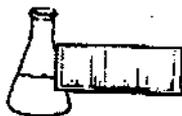
Lab #	Sample Location	Matrix	G R A B	C O M P	Date/Time	Sample Containers		Field Results/Remarks	Analysis Required	Sample Preservation	Rush
						No.	Type/Size				
	<i>Trip Blank</i>	<i>H₂O</i>	<input checked="" type="checkbox"/>		<i>1/15/97</i> <i>8:15</i>	<i>2</i>	<i>40 mL</i>		<i>602</i>	<i>HCl</i>	
	<i>MW-1</i>	<i>H₂O</i>	<input checked="" type="checkbox"/>		<i>12:10</i>	<i>2</i>	<i>40 mL</i>		<i>602</i>	<i>HCl</i>	

Relinquished by: Signature <i>Kevin McGraw</i>	Received by: Signature <i>[Signature]</i>	Date/Time <i>1-14-97 1:30</i>
Relinquished by: Signature <i>[Signature]</i>	Received by: Signature <i>[Signature]</i>	Date/Time <i>1/14/97 11:00</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 ₅	14	Turbidity	19	BTEX	24	EPA 608 Pest/PCB		
5	Nitrate N	10	Alkalinity	15	Conductivity	20	EPA 601/602	25	EPA 8240		
29	TCPLP (Specify: volatiles, semi-volatiles, metals, pesticides, herbicides)										
30	Other (Specify):										



ENDYNE, INC.

Laboratory Services

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

Post-it® Fax Note	7671	Date	# of pages ▶ 2
To	Kevin McGowan	From	EHBL
Co./Dept.		Co.	
Phone #		Phone #	
Fax #		Fax #	

DRY ANALYSIS

CLIENT: Griffin International
PROJECT NAME: Demarests' Country Store
REPORT DATE: February 20, 1997
DATE SAMPLED: February 13, 1997

PROJECT CODE: GIDC1992
REF.#: 99,976

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

All samples were prepared and analyzed by requirements outlined in the referenced method and within the specified holding times. All instrumentation was calibrated with the appropriate frequency and verified by the requirements outlined in the referenced method. Blank contamination was not observed at levels affecting the analytical results.

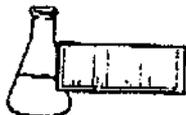
Analytical method precision and accuracy was monitored by laboratory control standards which included matrix spike, duplicate and quality control analyses. These standards were determined to be within established laboratory method acceptance limits.

Individual sample performance was monitored by the addition of surrogate analytes to each sample. All surrogate recovery data was determined to be within laboratory QA/QC guidelines unless otherwise noted.

Reviewed by,

Harry B. Locker, Ph.D.
Laboratory Director

enclosures



EPA METHOD 602--PURGEABLE AROMATICS

CLIENT: Griffin International

DATE RECEIVED: February 14, 1997

PROJECT NAME: Demarests' Country Store

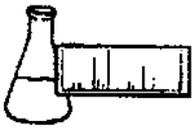
REPORT DATE: February 20, 1997

CLIENT PROJ. #: 1975221

PROJECT CODE: GIDC1992

Ref. #:	99,976				
Site:	Post Office SW				
Date Sampled:	2/13/97				
Time Sampled:	9:30				
Sampler:	R. Higgins				
Date Analyzed:	2/19/97				
UIP Count:	0				
Dil. Factor (%):	100				
Sure % Rec. (%):	97				
Parameter	Conc. (ug/L)				
Benzene	<1				
Chlorobenzene	<1				
1,2-Dichlorobenzene	<1				
1,3-Dichlorobenzene	<1				
1,4-Dichlorobenzene	<1				
Ethylbenzene	<1				
Toluene	<1				
Xylenes	<1				
MTBE	<10				

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



ENDYNE, INC.

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Williston, Vermont 05495
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FAX 879-7103

REPORT OF LABORATORY ANALYSIS

CLIENT: Griffin International
PROJECT NAME: Demarest Phase II
REPORT DATE: February 26, 1997
DATE SAMPLED: February 21, 1997

PROJECT CODE: GIDE1078
REF.#: 100,177 - 100,180

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

All samples were prepared and analyzed by requirements outlined in the referenced method and within the specified holding times. All instrumentation was calibrated with the appropriate frequency and verified by the requirements outlined in the referenced method. Blank contamination was not observed at levels affecting the analytical results.

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

Individual sample performance was monitored by the addition of surrogate analytes to each sample. All surrogate recovery data was determined to be within laboratory QA/QC guidelines unless otherwise noted.

Reviewed by,

Harry B. Locker, Ph.D.
Laboratory Director

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EPA METHOD 602--PURGEABLE AROMATICS

CLIENT: Griffin International

DATE RECEIVED: February 24, 1997

PROJECT NAME: Demarest Phase II

REPORT DATE: February 26, 1997

CLIENT PROJ. #: 1975221

PROJECT CODE: GIDE1078

Ref. #:	100,177	100,178	100,179	100,180	
Site:	Trip Blank	G-I MW-2	G-I MW-4	G-I MW-1	
Date Sampled:	2/21/97	2/21/97	2/21/97	2/21/97	
Time Sampled:	6:15	16:55	17:15	17:30	
Sampler:	T. Kelly	T. Kelly	T. Kelly	T. Kelly	
Date Analyzed:	2/25/97	2/26/97	2/26/97	2/26/97	
UIP Count:	0	>10	2	>10	
Dil. Factor (%):	100	100	100	20	
Surr % Rec. (%):	94	91	98	95	
Parameter	Conc. (ug/L)	Conc. (ug/L)	Conc. (ug/L)	Conc. (ug/L)	
Benzene	<1	1.3	<1	43.1	
Chlorobenzene	<1	<1	<1	<5	
1,2-Dichlorobenzene	<1	<1	<1	<5	
1,3-Dichlorobenzene	<1	<1	<1	<5	
1,4-Dichlorobenzene	<1	<1	<1	<5	
Ethylbenzene	<1	<1	<1	7.9	
Toluene	<1	<1	<1	6.1	
Xylenes	<1	<1	<1	15.1	
MTBE	<10	<10	<10	<50	

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