

## **GIS Registry Disclaimer**

This case was closed by the DNR prior to August 1, 2002, when DNR began adding approved cleanups with residual soil contamination into the GIS Registry. Certain documents that are currently required by ch. NR 726, Wis. Adm. Code may therefore not be included in this packet as they were unavailable at the time the original case was closed.

The information contained in this document was assembled by DNR from a previously closed case file, and added to the GIS Registry to provide the public with information on closed sites with residual soil and/or groundwater contamination remaining above applicable state standards.

# GIS REGISTRY

## Cover Sheet

July, 2008  
(RR 5367)

### Source Property Information

BRRTS #:

03-59-001372

ACTIVITY NAME:

Graf Creamery Co - Site A

PROPERTY ADDRESS:

N4051 Creamery St

MUNICIPALITY:

Zachow

PARCEL ID #:

00490050030

CLOSURE DATE:

Mar 4, 2003

FID #:

459069600

DATCP #:

COMM #:

#### \*WTM COORDINATES:

X: 649894

Y: 474301

*\* Coordinates are in  
WTM83, NAD83 (1991)*

#### WTM COORDINATES REPRESENT:

Approximate Center Of Contaminant Source

Approximate Source Parcel Center

Please check as appropriate: (BRRTS Action Code)

### Contaminated Media:

Groundwater Contamination > ES (236)

Contamination in ROW

Off-Source Contamination

*(note: for list of off-source properties  
see "Impacted Off-Source Property")*

Soil Contamination > \*RCL or \*\*SSRCL (232)

Contamination in ROW

Off-Source Contamination

*(note: for list of off-source properties  
see "Impacted Off-Source Property")*

### Land Use Controls:

Soil: maintain industrial zoning (220)

*(note: soil contamination concentrations  
between residential and industrial levels)*

Structural Impediment (224)

Site Specific Condition (228)

Cover or Barrier (222)

*(note: maintenance plan for  
groundwater or direct contact)*

Vapor Mitigation (226)

Maintain Liability Exemption (230)

*(note: local government or economic  
development corporation)*

Monitoring wells properly abandoned? (234)

Yes  No  N/A

*\* Residual Contaminant Level*

*\*\*Site Specific Residual Contaminant Level*

This fillable form is intended to provide a list of information that must be submitted for evaluation for case closure. It is to be used in conjunction with Form 4400-202, Case Closure Request (Section H). The closure of a case means that the Department has determined that no further response is required at that time based on the information that has been submitted to the Department.

**NOTICE: Completion of this form is mandatory** for applications for case closure pursuant to ch. 292, Wis. Stats. and ch. NR 726, Wis. Adm. Code, including cases closed under ch. NR 746 and ch. NR 726. The Department will not consider, or act upon your application, unless all applicable sections are completed on this form and the closure fee and any other applicable fees, required under ch. NR 749, Wis. Adm. Code, Table 1 are included. It is not the Department's intention to use any personally identifiable information from this form for any purpose other than reviewing closure requests and determining the need for additional response action. The Department may provide this information to requesters as required by Wisconsin's Open Records law [ss. 19.31 - 19.39, Wis. Stats.].

BRRTS #:  PARCEL ID #:

ACTIVITY NAME:  WTM COORDINATES: X:  Y:

**CLOSURE DOCUMENTS** (the Department adds these items to the final GIS packet for posting on the Registry)

- Closure Letter**
- Maintenance Plan** (if activity is closed with a land use limitation or condition (land use control) under s. 292.12, Wis. Stats.)
- Conditional Closure Letter**
- Certificate of Completion (COC)** for VPLE sites

**SOURCE LEGAL DOCUMENTS**

- Deed:** The most recent deed as well as legal descriptions, for the **Source Property**. Deeds for other, off-source (off-site) properties are located in the **Notification** section.  
**Note:** If a property has been purchased with a land contract and the purchaser has not yet received a deed, a copy of the land contract which includes the legal description shall be submitted instead of the most recent deed. If the property has been inherited, written documentation of the property transfer should be submitted along with the most recent deed.
- Certified Survey Map:** A copy of the certified survey map or the relevant section of the recorded plat map for those properties where the legal description in the most recent deed refers to a certified survey map or a recorded plat map. (lots on subdivided or platted property (e.g. lot 2 of xyz subdivision)).  
**Figure #: none**      **Title: none**
- Signed Statement:** A statement signed by the Responsible Party (RP), which states that he or she believes that ALL legal descriptions attached to the statement are complete and accurate.  
**Note:** The point here is that the legal descriptions are describing the correct (i.e., contaminated) properties.

**MAPS** (meeting the visual aid requirements of s. NR 716.15(2)(h))

Maps must be no larger than 8.5 x 14 inches unless the map is submitted electronically.

- Location Map:** A map outlining all properties within the contaminated site boundaries on a U.S.G.S. topographic map or plat map in sufficient detail to permit easy location of all parcels. If groundwater standards are exceeded, include the location of all potable wells within 1200 feet of the site.  
**Note:** Due to security reasons municipal wells are not identified on GIS Packet maps. However, the locations of these municipal wells must be identified on Case Closure Request maps.  
**Figure #: na**      **Title: Location Map**
- Detailed Site Map:** A map that shows all contaminated properties within site boundaries, showing buildings, roads, property boundaries, contaminant sources, utility lines, monitoring wells and potable wells. This map shows the location of all contaminated public streets, and highway and railroad rights-of-way in relation to the source property and in relation to the boundaries of groundwater contamination exceeding a ch. NR 140 Enforcement Standard (ES), and/or in relation to the boundaries of soil contamination exceeding a Generic Residual Contaminant Level (GRCL) or a Site Specific Residual Contaminant Levels (SSRCL) as determined under s. NR 720.09, 720.11 and 720.19.  
**Figure #: 2**      **Title: Site Plan**
- Soil Contamination Contour Map:** For sites closing with residual soil contamination, this map shows the location of all soil and a single contour showing the horizontal extent of each area of contiguous residual soil contamination that exceeds a Generic Residual Contaminant Level (GRCL) or a Site Specific Residual Contaminant Level (SSRCL) as determined under s. NR 720.09, 720.11 and 720.19.  
**Figure #:**      **Title:**

BRRTS #: 03-59-001372

ACTIVITY NAME: Graf Creamery Co - Site A

**MAPS (continued)**

- Geologic Cross-Section Map:** A map showing the source location and vertical extent of residual soil contamination exceeding a Generic Residual Contaminant Level (GRCL) or a Site Specific Residual Contaminant Level (SSRCL). If groundwater contamination exceeds a ch. NR 140 Enforcement Standard (ES) when closure is requested, show the source location and vertical extent, water table and piezometric elevations, and locations and elevations of geologic units, bedrock and confining units, if any.

**Figure #: 3**                      **Title: Geologic Cross-Section**

**Figure #: 4**                      **Title: Geologic Cross-Section**

- Groundwater Isoconcentration Map:** For sites closing with residual groundwater contamination, this map shows the horizontal extent of all groundwater contamination exceeding a ch. NR140 Preventive Action Limit (PAL) and an Enforcement Standard (ES). Indicate the direction and date of groundwater flow, based on the most recent sampling data.

**Note:** This is intended to show the total area of contaminated groundwater.

**Figure #: 2**                      **Title: Contaminant Plume**

- Groundwater Flow Direction Map:** A map that represents groundwater movement at the site. If the flow direction varies by more than 20° over the history of the site, submit 2 groundwater flow maps showing the maximum variation in flow direction.

**Figure #: 17**                      **Title: Groundwater Contour & Oxygen Distribution 04/07/98**

**Figure #:**                      **Title:**

**TABLES (meeting the requirements of s. NR 716.15(2)(h)(3))**

Tables must be no larger than 8.5 x 14 inches unless the table is submitted electronically. Tables must not contain shading and/or cross-hatching. The use of **BOLD** or *ITALICS* is acceptable.

- Soil Analytical Table:** A table showing remaining soil contamination with analytical results and collection dates.  
**Note:** This is one table of results for the contaminants of concern. Contaminants of concern are those that were found during the site investigation, that remain after remediation. It may be necessary to create a new table to meet this requirement.

**Table #: 1, 2, 3**                      **Title: Site Investigation Soil Samples, Soil Analysis**

- Groundwater Analytical Table:** Table(s) that show the most recent analytical results and collection dates, for all monitoring wells and any potable wells for which samples have been collected.

**Table #: na**                      **Title: Groundwater Analysis**

- Water Level Elevations:** Table(s) that show the previous four (at minimum) water level elevation measurements/dates from all monitoring wells. If present, free product is to be noted on the table.

**Table #:**                      **Title:**

**IMPROPERLY ABANDONED MONITORING WELLS**

For each monitoring well not properly abandoned according to requirements of s. NR 141.25 include the following documents.

**Note:** If the site is being listed on the GIS Registry for only an improperly abandoned monitoring well you will only need to submit the documents in this section for the GIS Registry Packet.

- Not Applicable**

- Site Location Map:** A map showing all surveyed monitoring wells with specific identification of the monitoring wells which have not been properly abandoned.

**Note:** If the applicable monitoring wells are distinctly identified on the Detailed Site Map this Site Location Map is not needed.

**Figure #:**                      **Title:**

- Well Construction Report:** Form 4440-113A for the applicable monitoring wells.

- Deed:** The most recent deed as well as legal descriptions for each property where a monitoring well was not properly abandoned.

- Notification Letter:** Copy of the notification letter to the affected property owner(s).

BRRTS #: 03-59-001372

ACTIVITY NAME: Graf Creamery Co - Site A

## NOTIFICATIONS

Group the following information per individual property and label each group according to alphabetic listing on the "Impacted Off-Source Property" attachment.

- Letter To Current Source Property Owner:** If the source property is owned by someone other than the person who is applying for case closure, include a copy of the letter notifying the current owner of the source property that case closure has been requested.
- Return Receipt/Signature Confirmation:** Written proof of date on which the RP received confirmation for notifying current source property owner.
- Letter To Off-Source Property Owners:** Copies of all letters sent by the Responsible Party (RP) to owners of properties with groundwater exceeding an Enforcement Standard (ES), and to owners of properties that will be affected by a land use control under s. 292.12, Wis. Stats.  
**Note:** Letters sent to off-source properties regarding residual contamination must contain standard provisions in Appendix A of ch. NR 726.

### Number of "Off-Source" Letters:

- Return Receipt/Signature Confirmation:** Written proof of date on which the RP received confirmation for notifying any off-source property owner.
- Deed of "Off-Source" Property:** The most recent deed(s) as well as legal descriptions, for all affected deeded **off-source property(ies)**. This does not apply to right-of-ways.  
**Note:** If a property has been purchased with a land contract and the purchaser has not yet received a deed, a copy of the land contract which includes the legal description shall be submitted instead of the most recent deed. If the property has been inherited, written documentation of the property transfer should be submitted along with the most recent deed.
- Letter To Governmental Unit/Right-Of-Way Owners:** Copies of all letters sent by the Responsible Party (RP) to a city, village, municipality, state agency or any other entity responsible for maintenance of a public street, highway, or railroad right-of-way, within or partially within the boundaries of the contaminated site, for contamination exceeding a groundwater Enforcement Standard (ES) and/or soil exceeding a Generic Residual Contaminant Level (GRCL) or a Site Specific Residual Contaminant Level (SSRCL).

### Number of "Governmental Unit/Right-Of-Way Owner" Letters:

**GRAF CREAMERY, INC.**

W1902 Holy Hill Road  
Cecil, WI 54111

USA

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Phone 715.758.2137  
Fax 715.758.8020

February 21, 2003

Cheryl Laatsch  
State of Wis/Depart of Natural Resources  
625 East County Road Y, STE 700  
Oshkosh, WI 54901-9731

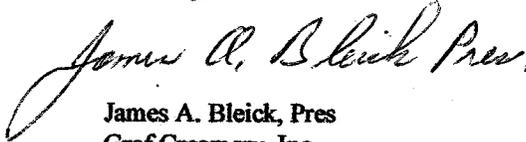
Re: Soil Deed Restriction for Graf Creamery, Zachow, Wisconsin  
WDNR BRRTS #03-59-001372

Dear Ms. Laatsch:

Enclosed with this letter is a copy of the soil deed restriction which your department has requested for the closure of our GIS site. This should complete the necessary documentation needed for closure.

Please notify us as to the receipt of the above mentioned material and the date of closure. However, if there are any problems or questions, please contact me at 920-822-5877 or 715-758-2137.

Sincerely,



James A. Bleick, Pres  
Graf Creamery, Inc.

Enclosure

CC: Robert E Lee and Associates, PO Box 2100, Green Bay, WI 54306-2100



In addition, the following activities are prohibited on that portion of the above-described property where an impervious cap has been placed, unless prior written approval has been obtained from the Wisconsin Department of Natural Resources or its successor or assign: (1) Excavating or grading of the land surface; (2) Filling on the capped area and areas with impervious surfaces; (3) Plowing for agricultural cultivation; and (4) Construction or installation of a building or other structure with a foundation that would sit on or be placed within the cap or impervious surface.

This restriction is hereby declared to be a covenant running with the land and shall be fully binding upon all persons acquiring the above-described property whether by descent, devise, purchase or otherwise. This restriction inures to the benefit of and is enforceable by the Wisconsin Department of Natural Resources, its successors or assigns. The Department, its successors or assigns, may initiate proceedings at law or in equity against any person or persons who violate or are proposing to violate this covenant, to prevent the proposed violation or to recover damages for such violation.

Any person who is or becomes owner of the property described above may request that the Wisconsin Department of Natural Resources or its successor issue a determination that one or more of the restrictions set forth in this covenant is no longer required. Upon the receipt of such a request, the Wisconsin Department of Natural Resources shall determine whether or not the restrictions contained herein can be extinguished. If the Department determines that the restrictions can be extinguished, an affidavit, attached to a copy of the Department's written determination, may be recorded by the property owner or other interested party to give notice that this deed restriction, or portions of this deed restriction, are no longer binding.

By signing this document, she asserts that he or she is duly authorized to sign this document on behalf of Graf Creamery, Inc.

IN WITNESS WHEREOF, the owner of the property has executed this Declaration of Restrictions, this 30<sup>th</sup> day of January, 2003.

Signature: Margery Bleick  
Printed Name: MARGERY BLEICK  
Title: Vice President

Subscribed and sworn to before me  
this 30 day of Jan., 2003

Laurie Peterson  
Notary Public, State of Wisconsin  
My commission 3-16-03



This document was drafted by the Wisconsin Department of Natural Resources based on information provided by Robert E. Lee and Associates.

DOCUMENT NO.  
374893

VOL. 563 PAGE 765

STATE BAR OF WISCONSIN - FORM 2  
WARRANTY DEED  
THIS SPACE RESERVED FOR RECORDING DATA

BY THIS DEED, Lester R. Quandt and Sandra A. Quandt  
his wife, and Leona Quandt

Grantor conveys and warrants to Graf Creamery, Inc., a  
Wisconsin corporation,

REGISTERS OFFICE  
SHAWANO COUNTY, WIS. } SS

Received for Record this 5th  
day of Feb. A.D. 1981 at 3:50

o'clock P.M. and Recorded in Vol. 563

# Recorded Page 765  
Audrey Redman Register

for a valuable consideration

RETURN TO

the following described real estate in Shawano County, State of Wisconsin

That part of the Northwest 1/4 of the Northeast  
1/4 of Section 18, Township 26 North, Range 18  
East, Shawano County, Wisconsin, being all of  
vacated Lots 14, 15 and 16 and part of vacated  
Lot 17, in Block 1, and vacated portion of Zernecke Street, in Map of  
the Village of Zachow, which is bounded and described as follows:  
Beginning at the Southwest corner of Lot 13 in Block 1 in Map of the  
Village of Zachow; thence South 06° 31' East 156.58 feet; thence North  
83° 29' East 226.00 feet; thence North 06° 31' West 156.58 feet; thence  
South 83° 29' West 226.00 feet to the point of beginning.

Tax Key # \_\_\_\_\_  
This is \_\_\_\_\_ homestead property.

This is a corrective deed, given to correct an error in a previous deed,  
executed by the Grantors, recorded in Volume 457, Page 624, as Document  
No. 318788, Shawano County Records.

Exception to warranties:

Executed at Farmers State Bank this 5th day of FEBRUARY, 19 81

SIGNED AND SEALED IN PRESENCE OF

\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_

x Lester R. Quandt (SEAL)  
Lester R. Quandt  
Sandra A. Quandt (SEAL)  
Sandra A. Quandt  
Leona Quandt (SEAL)  
Leona Quandt  
\_\_\_\_\_ (SEAL)

Signatures of \_\_\_\_\_

authenticated this \_\_\_\_\_ day of \_\_\_\_\_, 19 \_\_\_\_\_

Title: Member State Bar of Wisconsin or Other Party  
Authorized under Sec. 706.06 vis. \_\_\_\_\_

STATE OF WISCONSIN }  
Shawano County. } ss.

Personally came before me, this 5th day of February, 1981,  
the above named Lester R. Quandt, Sandra A. Quandt and Leona Quandt

to me known to be the person s who executed the foregoing instrument and acknowledged the same.

This instrument was drafted by

Attorney Frederic C. Eberlein  
P. O. Box 265, Shawano, WI 54166



Shirley M. Schneider  
Notary Public, Shawano County, Wis.

The use of witnesses is optional.

My Commission (Expires) (is) July 3, 1983

Names of persons signing in any capacity should be typed or printed below their signatures.

**GRAF CREAMERY**  
**Table 1**  
**Site Investigation Soil Samples**  
**Date Sampled: January 27 and 28, 1994**

Parameter	NR 720 Soil Standard	Sample I.D.									
		SB-1 (14-16')	SB-1 (25-27')	SB-2 (11-13')	SB-2 (13-15')	SB-2 (18.5-20.5')	SB-3 (12-14')	SB-3 (18-20')	SB-4 (10-12')	SB-5 (4-6')	SB-5 (16-18')
Lead (ppm)	—	1.18	1.58	1.3	1.05	1.28	2.36	1.58	2.28	20.6	3.54
GRO (ppm)	100	ND	ND	517.3	265.1	1095.8	5.6	1934.3	11.3	3315.3	ND
DRO (ppm)	100	ND	ND	20.4	374.6	58.6	ND	1699.2	ND	548.2	ND
PVOCs (ppb)											
Benzene	5.5	ND	ND	ND	ND	ND	ND	404.6	272.1	ND	232
Ethylbenzene	2900	ND	ND	1344.4	523	71428.6	ND	ND	286.4	120422.3	ND
MTBE	—	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Toluene	1500	ND	ND	1301.5	ND	157142.9	ND	274.6	200.5	11061.9	ND
1,2,4-Trimethylbenzene	—	ND	ND	13433.9	31380.8	164285.7	ND	12427.7	257.7	158027.8	ND
1,3,5-Trimethylbenzene	—	ND	ND	3289.5	8891.2	185714.3	ND	5057.8	1718.2	205436.2	ND
Total Xylene	4100	ND	ND	13673.0	16997.9	471428.5	ND	7948.0	3579.6	580998.7	132.6
PAHs											
Napthalene	—	ND	ND	33	150	250	ND	30	ND	180	ND
1-Methylnapthalene	—	ND	ND	73	340	460	ND	180	ND	240	ND
2-Methylnapthalene	—	ND	ND	18	88	110	ND	40	ND	55	ND
Phenanthrene	—	ND	ND	ND	2.5	2	ND	ND	ND	2.5	ND

ND = No Detect

 = NR 720 exceedance

Exhibit B

**Table 2**

**Soil Analysis  
Date Sampled: February 1 and 2, 1994**

Parameter	NR 720 Soil Standard	Sample I.D.								
		SB-6 (10-12')	SB-6 (20-22')	SB-7 (10-12')	SB-7 (18-20')	SB-8 (9-11')	SB-8 (13-15')	SB-8 (22-24')	SB-9 (16-18')	SB-9 (22-24')
Lead (ppm)	—	2.58	.85	2.4	1.48	4.5	3.69	.69	ND	ND
GRO (ppm)	100	ND	7.6	ND	7.3	40.8	21.1	ND	ND	ND
DRO (ppm)	100	ND	ND	ND	ND	31.2	ND	ND	ND	ND
PVOCs (ppb)										
Benzene	5.5	ND	ND	ND	ND	ND	ND	ND	ND	ND
Ethylbenzene	2900	ND	ND	ND	ND	43.6	81.6	ND	ND	ND
MTBE	—	ND	ND	ND	ND	ND	ND	ND	ND	ND
Toluene	1500	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,2,4-Trimethylbenzene	—	ND	ND	ND	ND	313.6	2.1	ND	ND	ND
1,3,5-Trimethylbenzene	—	ND	ND	ND	ND	156.8	25.7	ND	ND	ND
Total Xylene	4100	ND	ND	ND	ND	290.4	67.1	ND	ND	ND

ND = No Detect

Exhibit B

Table 3

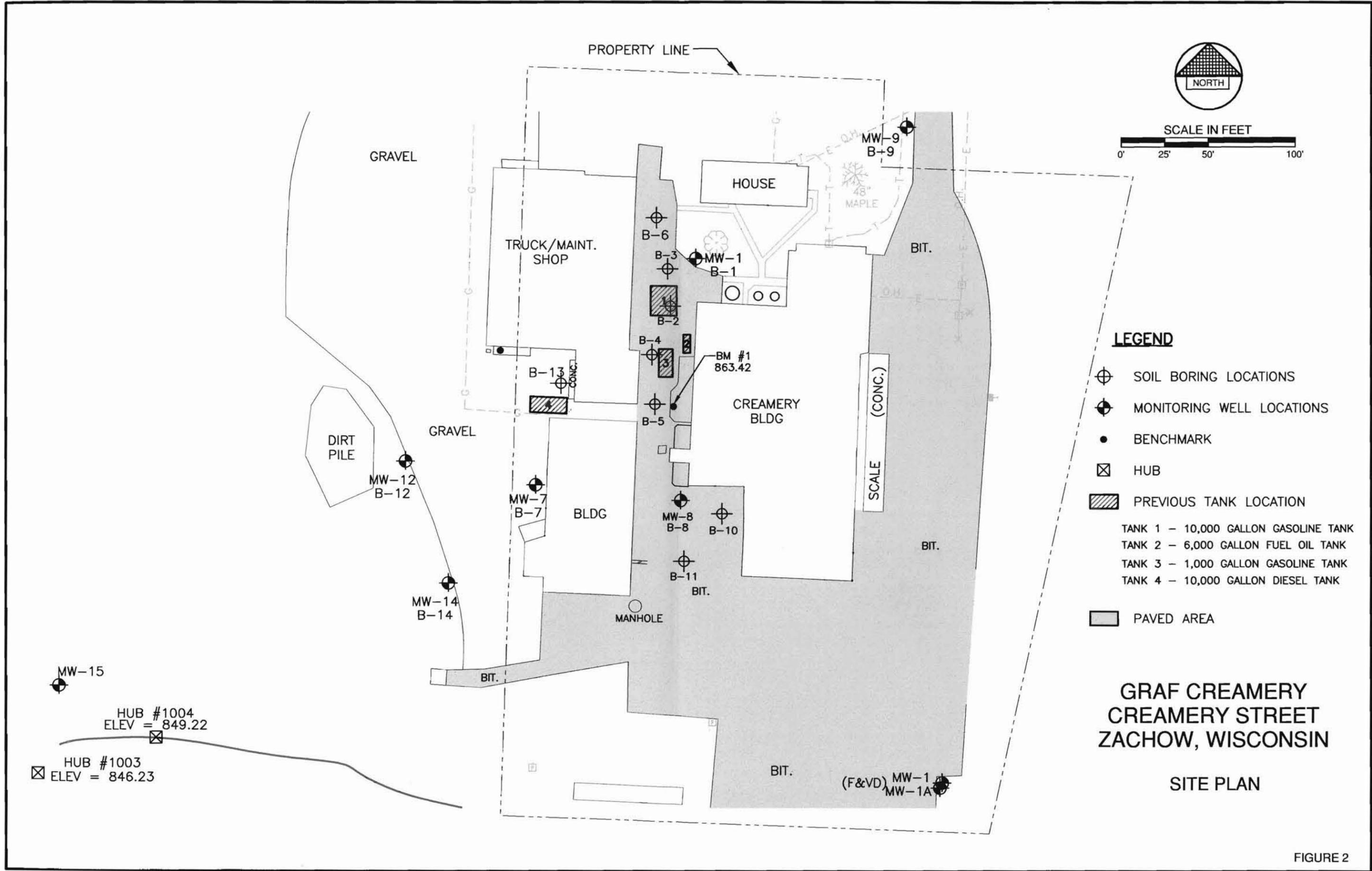
Soil Analysis  
Date Sampled: April 4 and 5, 1994

Parameter	NR 720 Soil Standard	Sample I.D.									
		SB-10 (8-10')	SB-10 (18-20')	SB-11 (8-10')	SB-11 (16-18')	SB-12 (16-18')	SB-12 (22-24')	SB-13 (6-8')	SB-13 (18-20')	SB-14 (16-18')	SB-14 (22-24')
Lead (ppm)	—	ND	ND	ND	ND	ND	ND	5.5	ND	ND	ND
GRO (ppm)	100	ND	ND	ND	ND	ND	ND	10	10	ND	ND
DRO (ppm)	100	ND	ND	5.1	ND	ND	ND	650	34	ND	ND
PVOcs (ppb)											
Benzene	5.5	ND	ND	ND	ND	71	300	ND	980	470	110
Ethylbenzene	2900	ND	ND	97	ND	34	ND	5200	530	ND	ND
MTBE	—	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Toluene	1500	ND	ND	ND	ND	ND	ND	ND	700	ND	ND
1,2,4-Trimethylbenzene	—	ND	ND	ND	ND	120	ND	ND	960	ND	ND
1,3,5-Trimethylbenzene	—	ND	ND	ND	ND	ND	ND	ND	330	ND	ND
Total Xylene	4100	ND	ND	ND	ND	35	ND	ND	1000	ND	ND
PAHs											
1,2-Benzo(a)anthracene	—	ND	ND	ND	ND	ND	1.2	ND	.77	.79	ND
3,4-Benzopyrene	—	ND	ND	ND	ND	ND	.78	ND	ND	.78	ND
2-Methylnaphthalene	—	ND	ND	ND	ND	ND	ND	ND	74	ND	ND

ND = No Detect

 = NR 720 exceedance

Exhibit B



**LEGEND**

- ⊕ SOIL BORING LOCATIONS
- ⊙ MONITORING WELL LOCATIONS
- BENCHMARK
- ⊠ HUB
- ▨ PREVIOUS TANK LOCATION
- TANK 1 - 10,000 GALLON GASOLINE TANK
- TANK 2 - 6,000 GALLON FUEL OIL TANK
- TANK 3 - 1,000 GALLON GASOLINE TANK
- TANK 4 - 10,000 GALLON DIESEL TANK
- PAVED AREA

**GRAF CREAMERY  
CREAMERY STREET  
ZACHOW, WISCONSIN**

**SITE PLAN**

Exhibit C

FIGURE 2



**Robert E. Lee & Associates, Inc.**  
Engineering, Surveying, Laboratory Services

March 20, 2000

RECEIVED

MAR 21 2000

Mr. Thomas Sturm  
DEPARTMENT OF NATURAL RESOURCES  
647 Lakeland Road  
Shawano, WI 54166

Ans'd \_\_\_\_\_

**Green Bay**  
2825 S. Webster Ave.  
P.O. Box 2100  
Green Bay, WI 54306-2100  
920/336-6338  
FAX 920/336-9141  
E Mail rel@netnet.net

**Milwaukee Area**  
830 Armour Rd.  
Oconomowoc, WI 53066  
414/569-8893  
1-800-775-8893  
FAX 414/569-7995

RE: CLOSURE REQUEST – Additional Data  
Graf Creamery, Inc., N4051 Creamery Street, Zachow, Wisconsin  
LUST Case #59-01372  
PECFA #54182-9999-13

Dear Mr. Sturm:

On September 16, 1998, Robert E. Lee & Associates, Inc. submitted a closure request on behalf of Graf Creamery. On December 21, 1998, Jim Bleick of Graf Creamery received a letter from the DNR in response to the closure request. The letter instructed Mr. Bleick to collect three more rounds of groundwater samples to determine the stability of the plume. In particular, well EX-1 was to be observed for possible increase in concentration.

We have collected three additional sample rounds. The updated tables and graphs are enclosed. As the data shows, the trends observed in the closure report have been confirmed in the three additional rounds. In well EX-1 the concentrations of both benzene and total PVOC are decreasing.

Also of concern in the letter to Mr. Bleick was the condition of the pavement with regard to its effectiveness as a control to prevent leaching of soil contamination into the groundwater. Since the time of the closure request, Graf Creamery has installed a new asphalt pavement. The pavement is of a quality sufficient to support heavy truck traffic, and is without interruption over the entire lot. It is the intention of Graf Creamery to maintain the surface in compliance with WDNR requirements.

Sincerely,

ROBERT E. LEE & ASSOCIATES, INC.

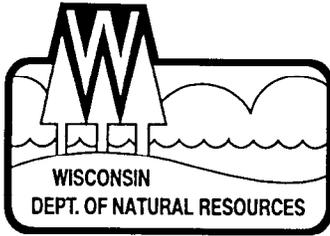
Karl A. Schuldes  
Environmental Scientist II

KAS/njm

ENC.

CC/ENC: Jim Bleick

File  
Copy



State of Wisconsin \ DEPARTMENT OF NATURAL RESOURCES

Scott McCallum, Governor  
Darrell Bazzell, Secretary  
Ronald W. Kazmierczak, Regional Director

Oshkosh Service Center  
625 East County Road Y, STE 700  
Oshkosh, Wisconsin 54901-9731  
TELEPHONE 920-424-3050  
FAX 920-424-4404

June 6, 2002

Mr. James Bleick  
Graf Creamery  
PO Box 49, Creamery Stret  
Zachow, WI 54182

SUBJECT: Closure Approval, with conditions met  
WDNR# 03-59-001372, Zachow, WI

Dear Mr. Bleick:

On April 18, 2000 your site as described above was reviewed for closure by the Department of Natural Resources. The Department reviews environmental remediation cases for compliance with state laws and standards to maintain consistency in the closure of these cases. On May 31, 2000, you were notified that conditional closure was granted to this case.

On April 29, 2002, the Department received correspondence indicating that you have complied with the conditions of closure. Based on the correspondence and data provided, it appears that your case has been remediated to Department standards in accordance with s. NR 726.05, Wis. Adm. Code. The Department considers this case closed and no further investigation, remediation or other action is required at this time.

Your site will be listed on the DNR Remediation and Redevelopment GIS Registry of Closed Remediation Sites. Information that was submitted with your closure request application will be included on the registry. To review the sites on the GIS Registry web page, visit <http://gomapout.dnr.state.wi.us/org/at/et/geo/gwur/index.htm>

Please be aware that this case may be reopened pursuant to s. NR 726.09, Wis. Adm. Code, if additional information regarding site conditions indicates that contamination on or from the site poses a threat to public health, safety or welfare, or the environment.

The Department appreciates your efforts to restore the environment at this site. If you have any questions regarding this letter, please contact me at 920-303-5435.

Sincerely,

Cheryl Laatsch  
Hydrgeologist  
Bureau for Remediation & Redevelopment

cc: Robert E Lee & Associates, 2825 South Webster Avenue, Green Bay WI 54301-2878



DOCUMENT NO.  
374893

VOL 563 PAGE 765

STATE BAR OF WISCONSIN - FORM 2  
WARRANTY DEED  
THIS SPACE RESERVED FOR RECORDING DATA

BY THIS DEED, Lester R. Quandt and Sandra A. Quandt  
his wife, and Leona Quandt

Grants, conveys and warrants to Graf Creamery, Inc., a  
Wisconsin corporation.

REGISTERS OFFICE }  
SHAWANO COUNTY, WIS. } SS  
Received for Record this 5th  
day of Feb. A.D. 1981 at 3:16  
P.M. and Recorded in Vol. 563  
# Record Page 765  
D. J. Schmidt Register

for a valuable consideration \_\_\_\_\_ Grantee

the following described real estate in Shawano County, State of Wisconsin:  
That part of the Northwest 1/4 of the Northeast  
1/4 of Section 18, Township 26 North, Range 18  
East, Shawano County, Wisconsin, being all of  
vacated Lots 14, 15 and 16 and part of vacated  
Lot 17, in Block 1, and vacated portion of Zernecke Street, in Map of  
the Village of Zachow, which is bounded and described as follows:  
Beginning at the Southwest corner of Lot 13 in Block 1 in Map of the  
Village of Zachow; thence South 06° 31' East 156.58 feet; thence North  
83° 29' East 226.00 feet; thence North 06° 31' West 156.58 feet; thence  
South 83° 29' West 226.00 feet to the point of beginning.

Tax Key # \_\_\_\_\_  
This is \_\_\_\_\_ homestead property.

This is a corrective deed, given to correct an error in a previous deed,  
executed by the Grantors, recorded in Volume 457, Page 624, as Document  
No. 318788, Shawano County Records.

Exception to warranties:

Executed at Farmers State Bank this 5th day of February, 1981

SIGNED AND SEALED IN PRESENCE OF

Lester R. Quandt (SEAL)  
Lester R. Quandt

Sandra A. Quandt (SEAL)  
Sandra A. Quandt

Leona Quandt (SEAL)  
Leona Quandt

\_\_\_\_\_  
(SEAL)

Signatures of \_\_\_\_\_

authenticated this \_\_\_\_\_ day of \_\_\_\_\_, 19\_\_\_\_.

Title: Member State Bar of Wisconsin or Other Party  
Authorized under Sec. 706.06 viz. \_\_\_\_\_

STATE OF WISCONSIN }  
Shawano County, } ss.

Personally came before me, this 5th day of February, 1981,  
the above named Lester R. Quandt, Sandra A. Quandt and Leona Quandt

to me known to be the person S who executed the foregoing instrument and acknowledged the same.

This instrument was drafted by

Attorney Frederic C. Eberlein Notary Public Shawano County, Wis.  
P. O. Box 265, Shawano, WI 54160

The use of witnesses is optional.

My Commission (Expires) (is) July 3, 1983

Names of persons signing in any capacity should be typed or printed below their signatures.

GRAPHIC PRINTING CO., EAU CLAIRE, WIS.

DOCUMENT NO.  
469991

STATE BAR OF WISCONSIN FORM 3 - 1982  
QUIT CLAIM DEED  
EASEMENT VOL

THIS SPACE RESERVED FOR RECORDING DATA

VOL 789 PAGE 255

Ron Hinkfuss and Jean Hinkfuss, his wife  
a/k/a Ronald Hinkfuss  
XXXXXX to Graf Creamery, Inc., a Wisconsin  
easement Corporation

REGISTERS OFFICE SS  
SHAWANO COUNTY, WI  
Received for Record this 9th  
day of Nov AD 1994 at 10:15  
o'clock A.M. AND Recorded in Vol. 789  
of Records Page 255  
J. J. Redman Register

the following described real estate in Shawano County,  
State of Wisconsin:

RETURN TO

A perpetual easement for installing and maintaining  
a pipe line and ingress and egress for vehicles  
across the following parcel:

Tax Parcel No: .....

That part of the Fractional South 1/2 of the Northwest 1/4 of Section 18,  
Township 26 North, of Range 18 East, in Shawano County, Wisconsin, bounded  
and described as follows: Commencing at the West 1/4 corner of the said  
Section 18; thence S. 86° 22' 00" E. along the 1/4 line 625.57 feet; thence  
N. 02° 31' 15" E. 24.75 feet to the north line of a Town Road, known as  
Church Road and the place of beginning; thence N. 02° 31' 15" E. 443.93  
feet to the south line of the Graf Creamery property line; thence N. 78°  
14' 49" E. along the said property line 34.05 feet; thence S. 02° 31' 15"  
W. 452.97 feet to the north line of the said Church Road; thence N. 86° 22'  
00" W. along the said north line 33.01 feet to the place of beginning.

TRANSFER  
\$ 15.00  
FEE

This is not homestead property.  
~~is~~ (is not)

Dated this 7th day of November, 19 94

(SEAL) Ronald Hinkfuss (SEAL)  
Ron Hinkfuss a/k/a Ronald Hinkfuss  
(SEAL) Jean Hinkfuss (SEAL)  
Jean Hinkfuss

AUTHENTICATION

Signature(s) Ron Hinkfuss a/k/a Ronald  
Hinkfuss and Jean Hinkfuss  
authenticated this 7th day of November, 19 94

Arnold R. Greenhill  
TITLE: MEMBER STATE BAR OF WISCONSIN

(If not  
authorized by § 709.05, Wis. Stats.)

THIS INSTRUMENT WAS DRAFTED BY  
Arnold R. Greenhill

BARTHOLOMEW & GREENHILL  
(Signatures may be authenticated or acknowledged. Both  
are not necessary.)

ACKNOWLEDGMENT

STATE OF WISCONSIN

County, } ss.  
Personally came before me this 7th day of  
November, 19 94 the above named  
Ron Hinkfuss  
Jean Hinkfuss

to me known to be the person who executed the  
foregoing instrument and acknowledged the same.

Notary Public, County, Wis.  
My Commission is permanent (if not, state expiration  
date: 19.....)

As in case of Greenhill 10-94  
15-10 TR

**R.W. NORDIN & ASSOCIATES, INC.**  
**Professional Land Surveyors & Certified Soil Testers**

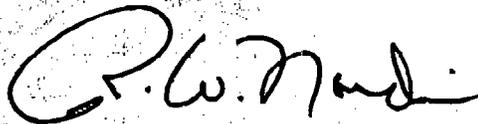
N1941 Hwy. 47-58  
Shawano, Wisconsin 54166  
Phone 715-526-3638  
Surveying Wisconsin Since 1955

December 13, 1984.

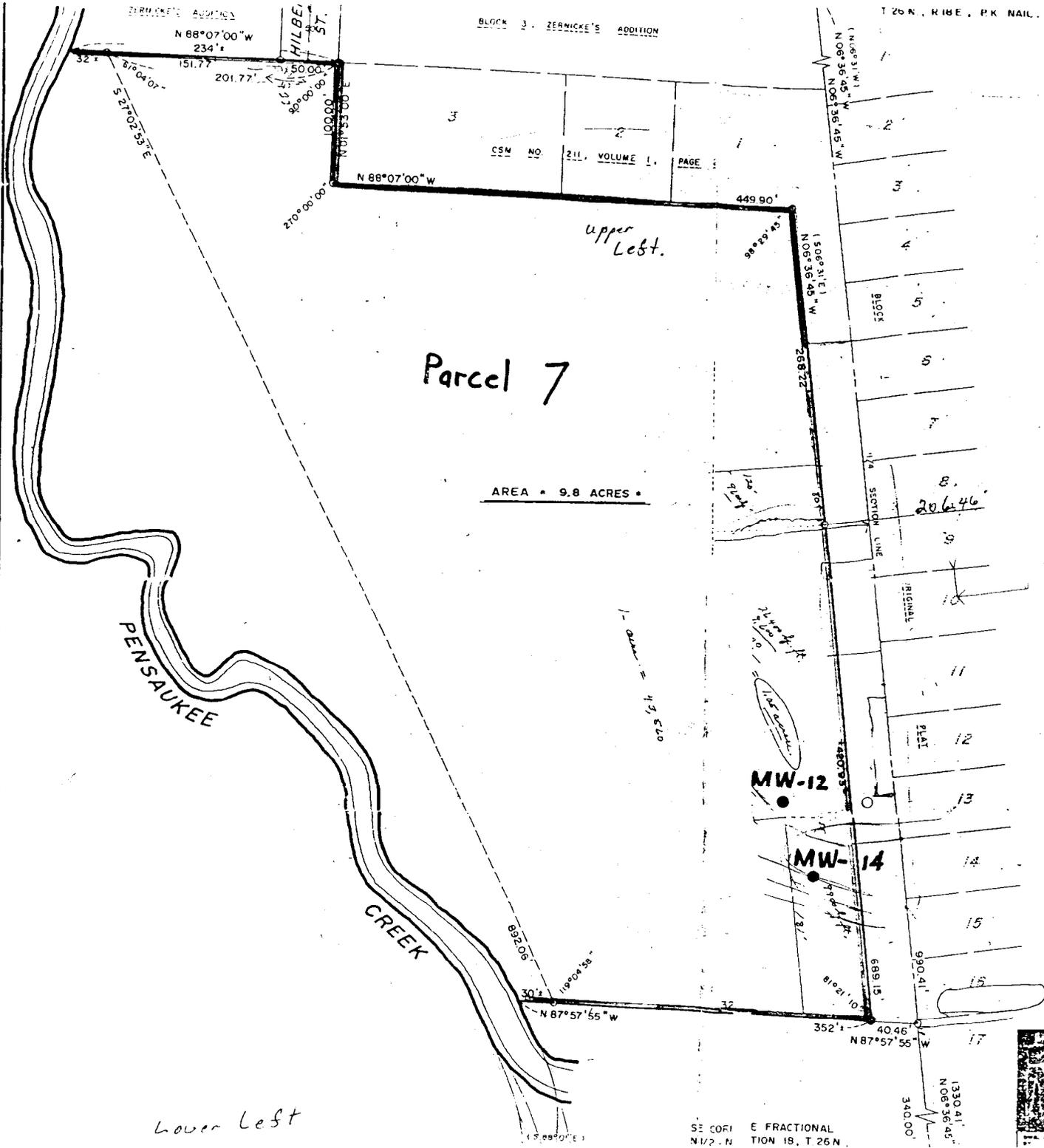
Parcel 7

Description for Graf Creamery

That part of the Fractional North One-half of the Northwest Quarter of Section 18, Township 26 North, of Range 18 East, in Shawano County, Wisconsin, bounded and described as follows: Commencing at the southeast corner of the said North One-half; thence N.  $06^{\circ}-36'-45''$  W. along the Quarter line 340.00 feet; thence N.  $87^{\circ}-57'-55''$  W. 40.46 feet; thence continue on the same line 352 feet more or less to the water's edge of Pensaukee Creek and the place of beginning; thence retrace the last described line 352 feet more or less; thence N.  $06^{\circ}-36'-45''$  W. 689.15 feet to the south line of Lot 1, Certified Survey Map 211; thence N.  $88^{\circ}-07'$  W. along the south line of Lots 1, 2, and 3, of the said Certified Survey Map 211, 449.90 feet; thence N.  $01^{\circ}-53'$  E. 100 feet; thence N.  $88^{\circ}-07'$  W. 234 feet more or less to the water's edge of Pensaukee Creek; thence following the said water's edge in a general southeasterly direction to the place of beginning.



R. W. Nordin, Surveyor



Parcel 7

AREA • 9.8 ACRES •

PENSAUKEE CREEK

BLOCK 3, ZERNICKE'S ADDITION

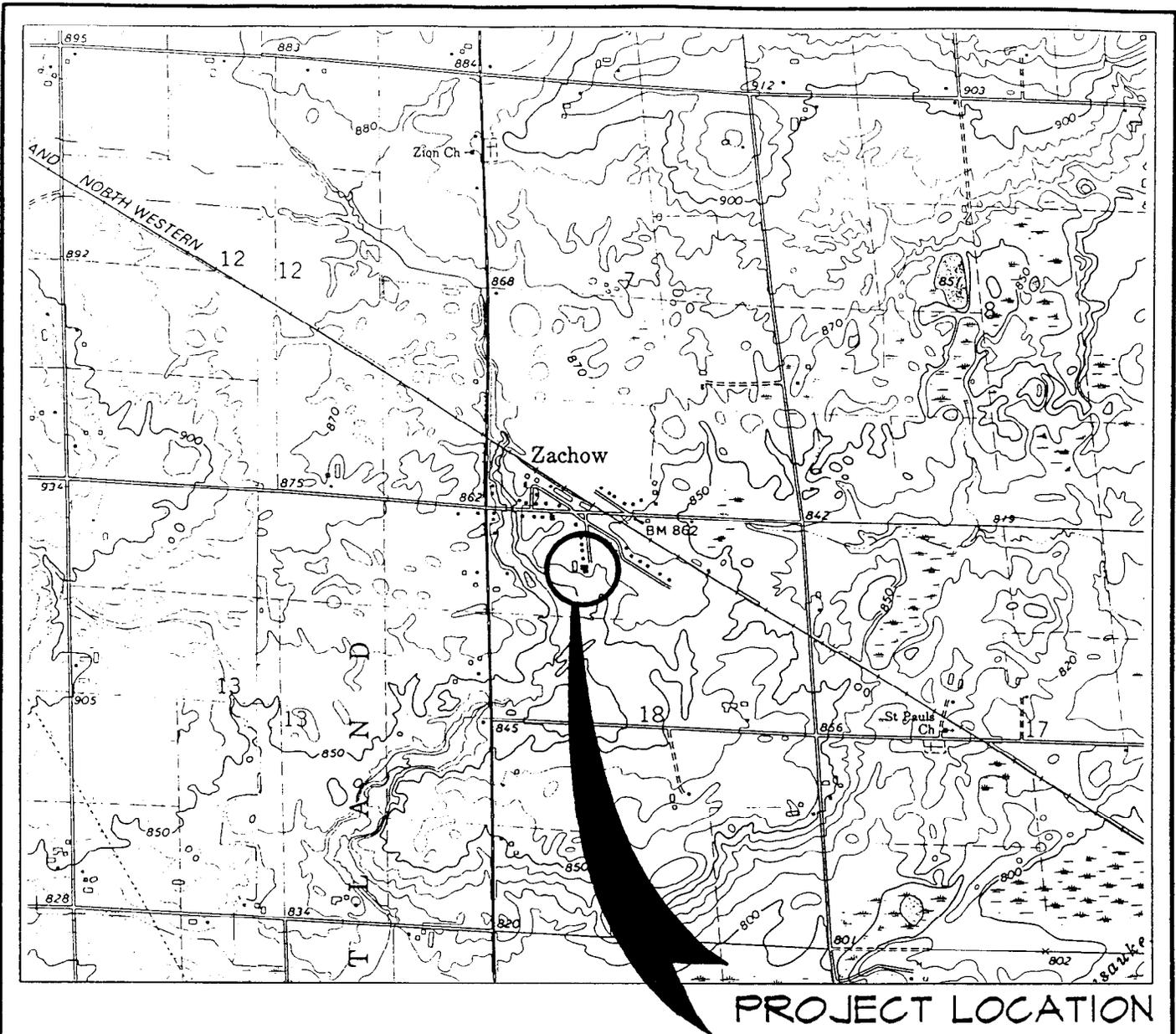
T 26 N., R 18 E., P. K. NAIL.

upper left.

Lower left

SE CORNER FRACTIONAL SECTION 18, T 26 N.





PROJECT LOCATION

# LOCATION MAP

## GRAF CREAMERY ZACHOW, WISCONSIN

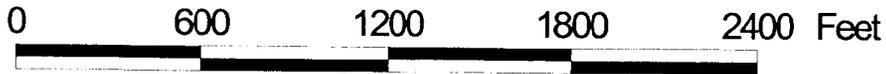
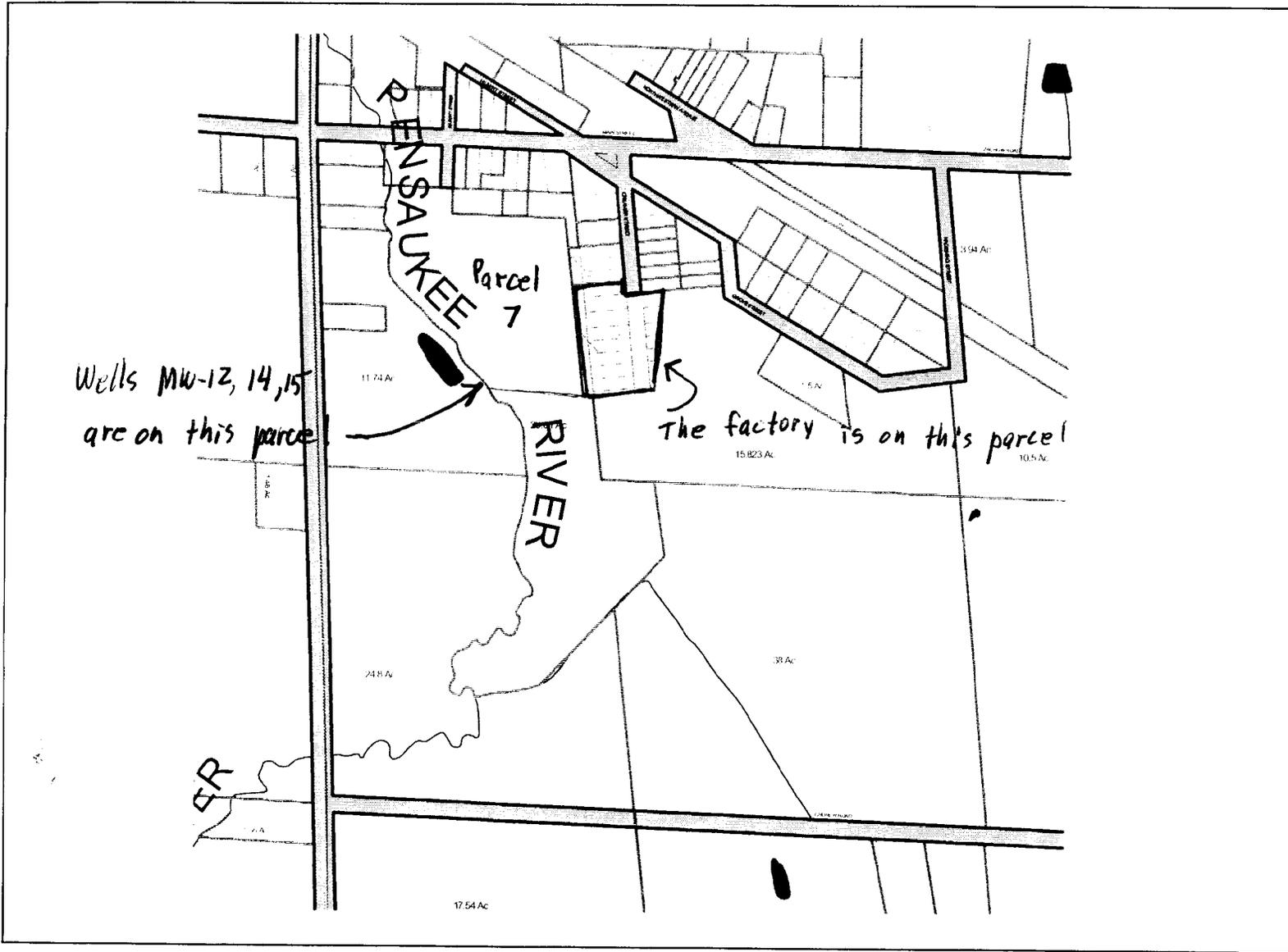


SCALE: 1" = 2000'

# Shawano County

## Legend

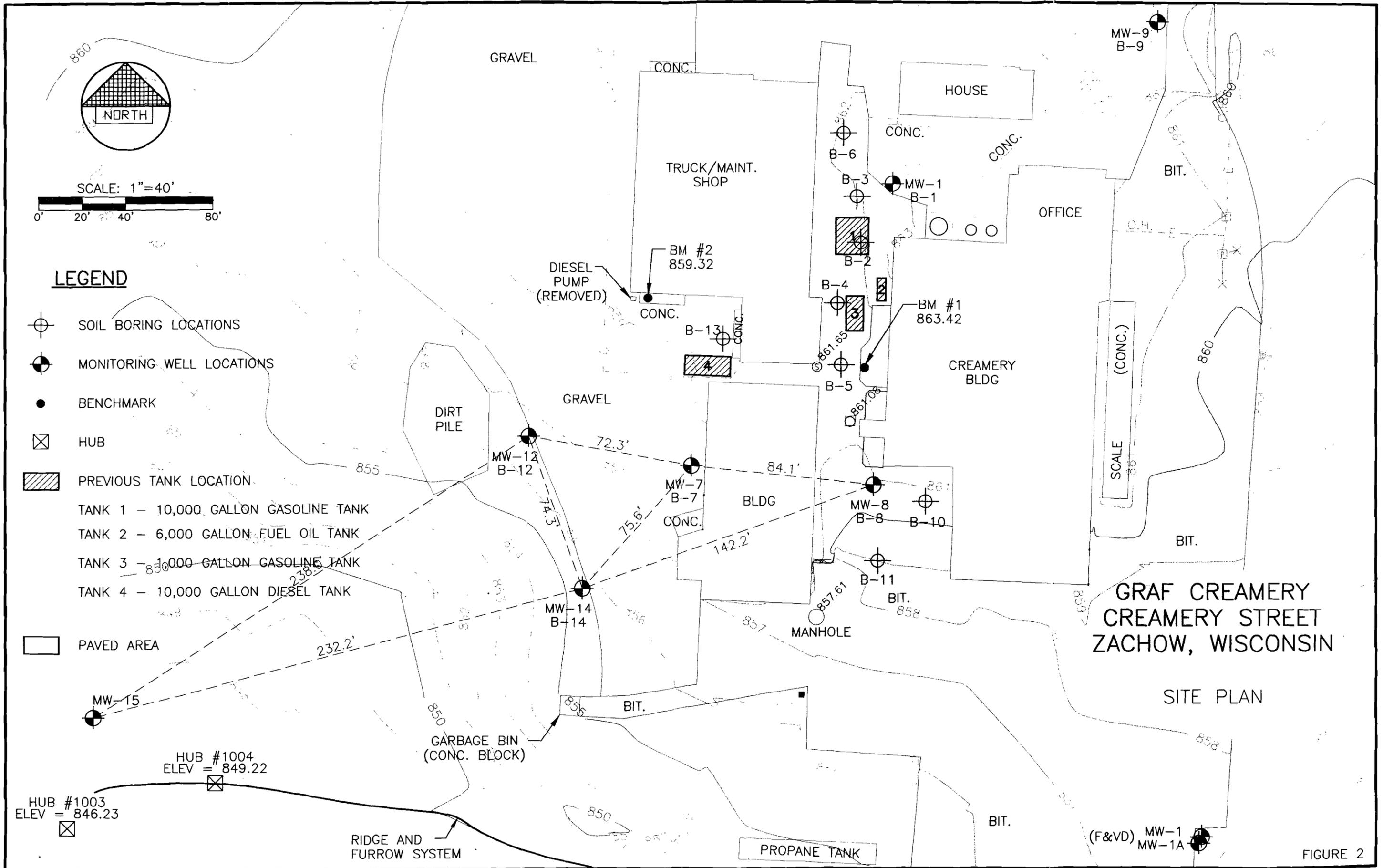
- Misc (hooks)
- Easements
- Lot Lines
- Parcels
- Parcel Bnd
- Road Bnd
- Major Road Bnd
- Qtr town lines
- No Data
- Mcd Bound.
- Row
- Parcels



SHAWANO COUNTY LAND RECORDS DISCLAIMER:  
Information depicted on this page was interpreted from digital orthophotography and various other land records. An attempt was made to accurately represent the information shown hereon, however, recent changes in the physical and cultural landscape may not be represented. This map is intended for planning and general use only, please refer to the original source documents for detailed information. Please contact the Shawano County Planning & Development Office if you discover any discrepancies on this map.







**LEGEND**

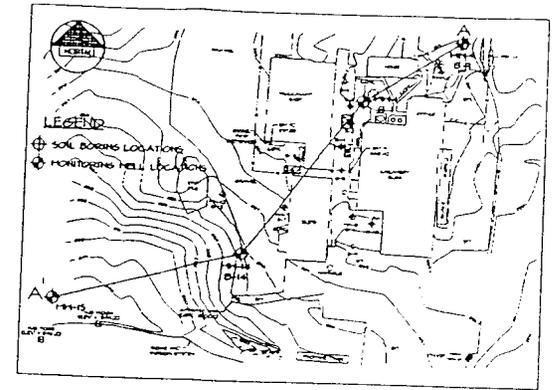
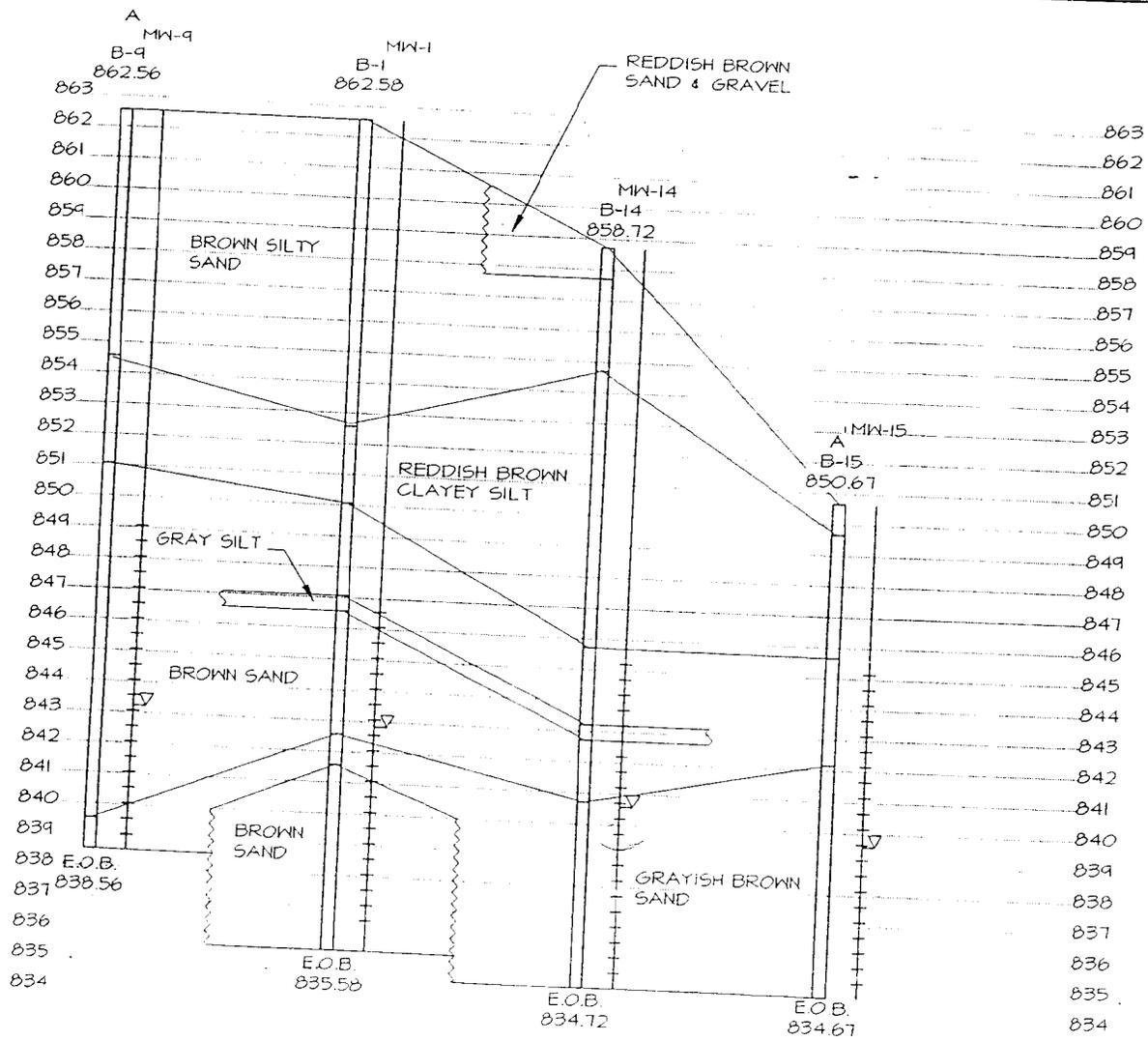
- ⊕ SOIL BORING LOCATIONS
- ⊙ MONITORING WELL LOCATIONS
- BENCHMARK
- ⊠ HUB
- ▨ PREVIOUS TANK LOCATION
- TANK 1 - 10,000 GALLON GASOLINE TANK
- TANK 2 - 6,000 GALLON FUEL OIL TANK
- TANK 3 - 10,000 GALLON GASOLINE TANK
- TANK 4 - 10,000 GALLON DIESEL TANK
- ▭ PAVED AREA

**GRAF CREAMERY  
CREAMERY STREET  
ZACHOW, WISCONSIN**

**SITE PLAN**

FIGURE 2

N:\3312013\SITE.DWG-LP-7/2000



SCALE

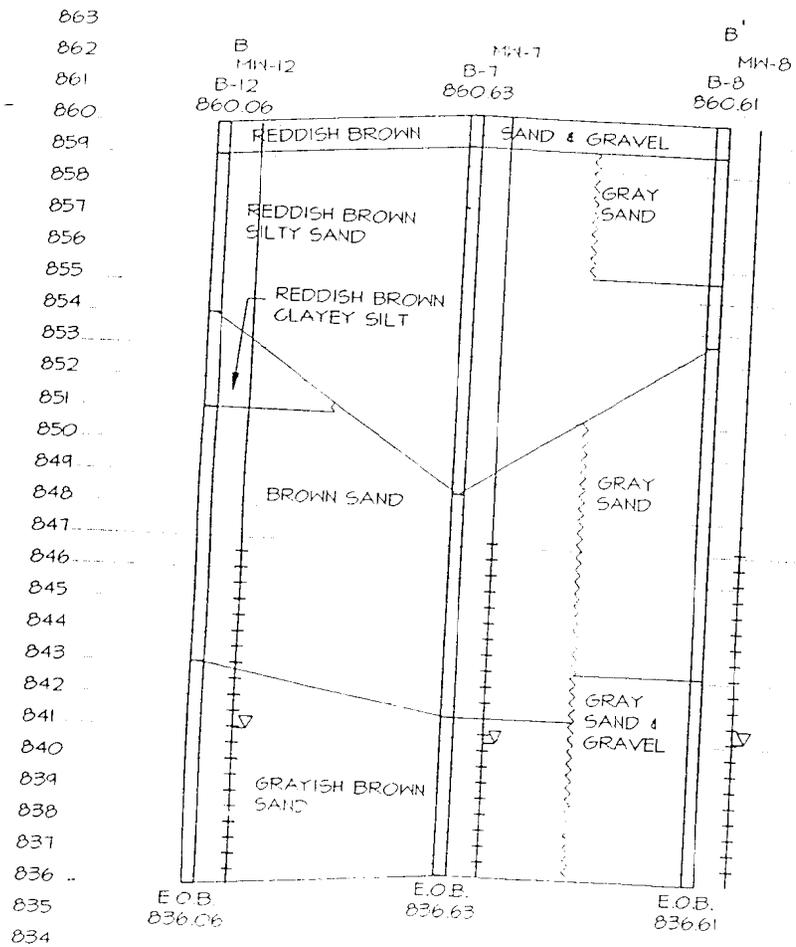
VERTICAL 1" = 4'

HORIZONTAL 1" = 20'

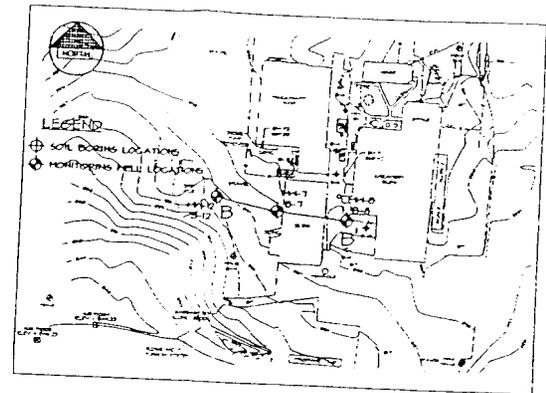
WATER LEVELS 8/7/95

GRAF CREAMERY  
 CREAMERY STREET  
 ZACHOW, WISCONSIN

GEOLOGIC  
 CROSS-SECTION



863  
 862  
 861  
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**SCALE**

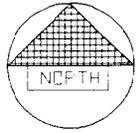
VERTICAL 1" = 4'

HORIZONTAL 1" = 20'

WATER LEVELS 8/7/95

GRAF CREAMERY  
 CREAMERY STREET  
 ZACHOW, WISCONSIN

GEOLOGIC  
 CROSS-SECTION

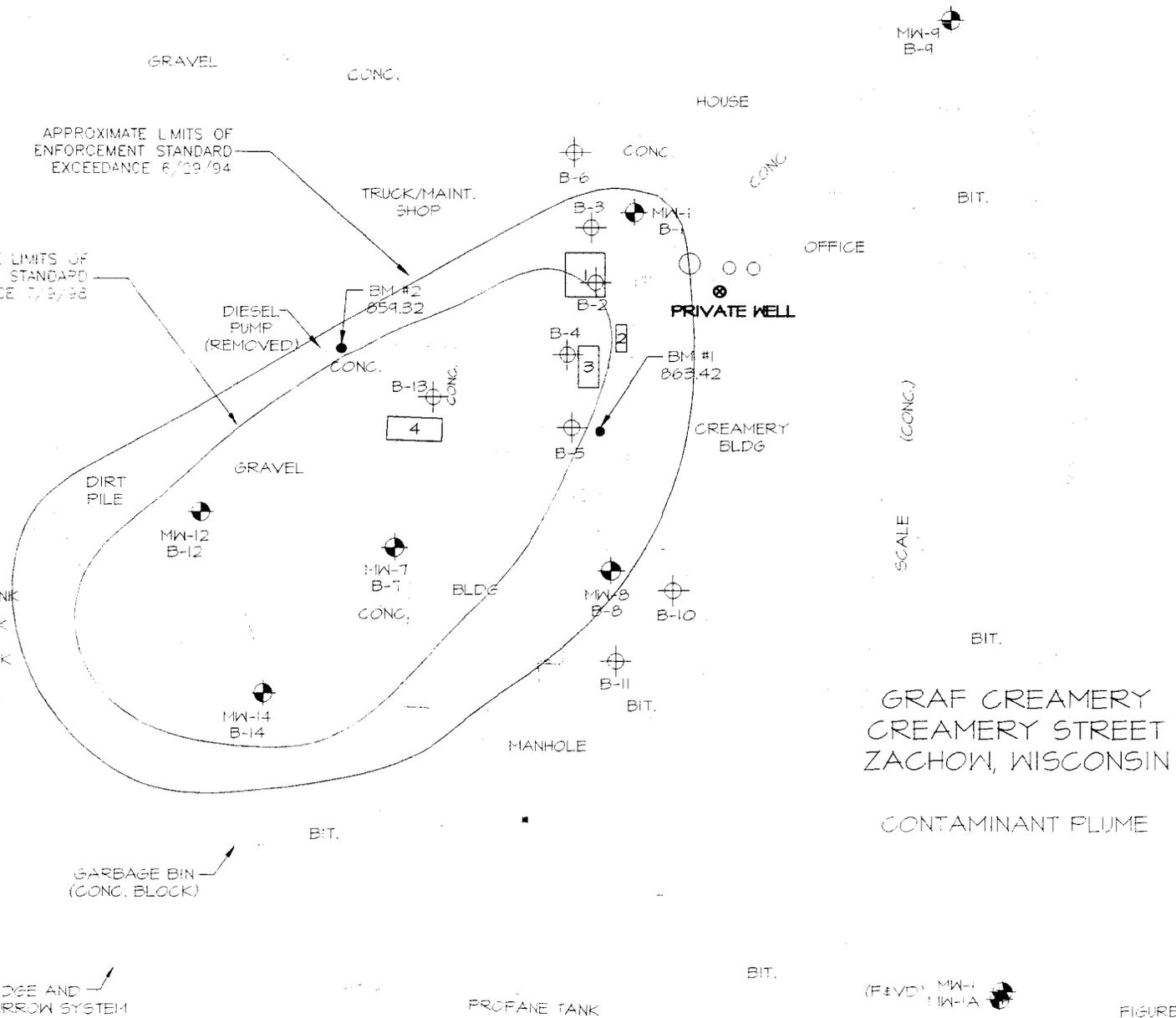


**LEGEND**

- SOIL BORING LOCATIONS
- MONITORING WELL LOCATIONS
- BENCHMARK
- HUB
- PREVIOUS TANK LOCATION
- TANK 1 - 10,000 GALLON GASOLINE TANK
- TANK 2 - 6,000 GALLON FUEL OIL TANK
- TANK 3 - 1,000 GALLON GASOLINE TANK
- TANK 4 - 10,000 GALLON DIESEL TANK

APPROXIMATE LIMITS OF ENFORCEMENT STANDARD EXCEEDANCE 6/29/94

APPROXIMATE LIMITS OF ENFORCEMENT STANDARD EXCEEDANCE 7/9/98



GRAF CREAMERY  
CREAMERY STREET  
ZACHOW, WISCONSIN

CONTAMINANT PLUME

MW-15

HUB #1004  
ELEV = 849.22

HUB #1003  
ELEV = 846.23

GARBAGE BIN (CONC. BLOCK)

RIDGE AND FURROW SYSTEM

PROFANE TANK

FIGURE 2

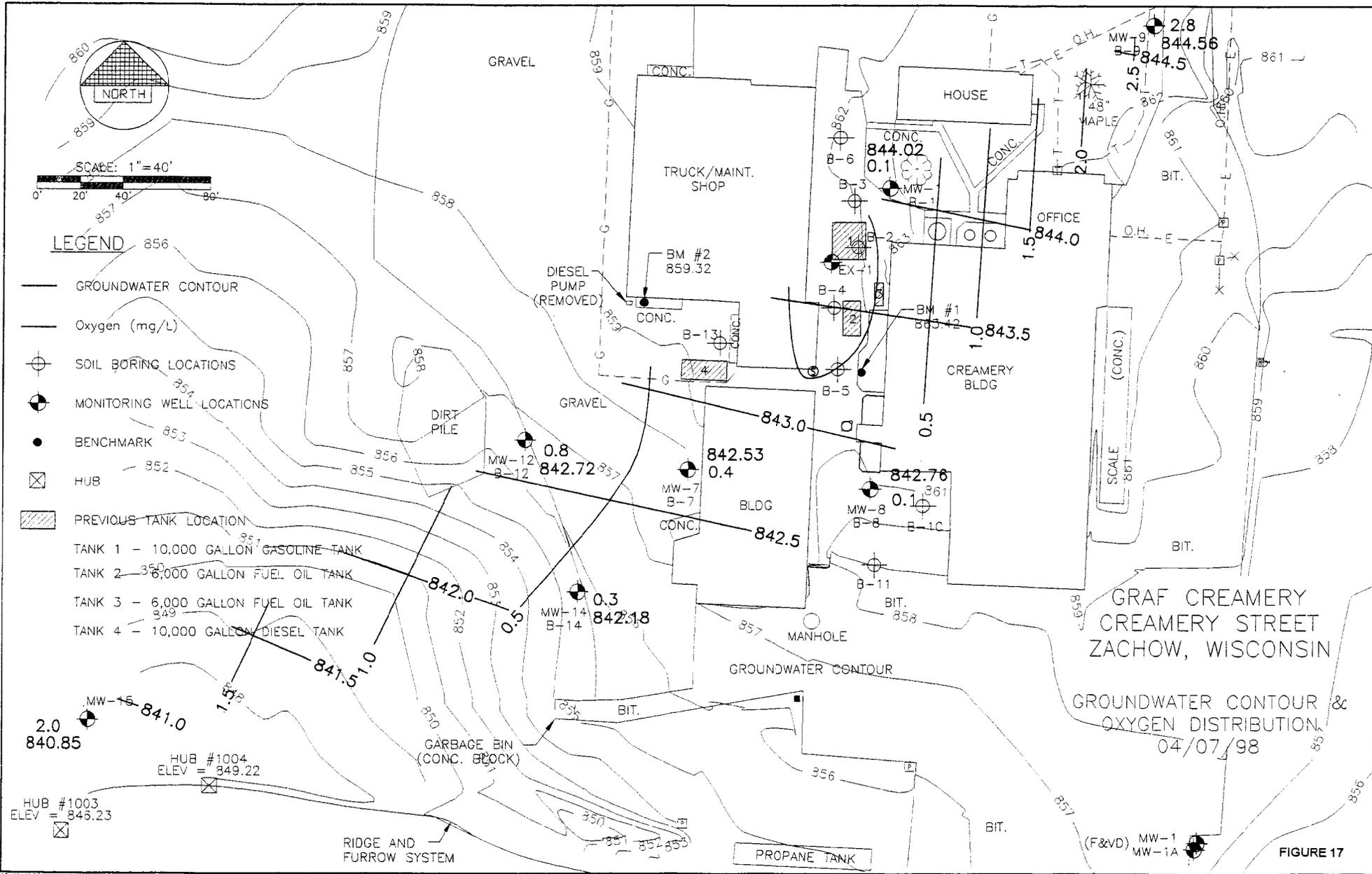


FIGURE 17

**GRAF CREAMERY**  
**Table 1**  
**Site Investigation Soil Samples**  
**Date Sampled: January 27 and 28, 1994**

Parameter	NR 720 Soil Standard	Sample I.D.									
		SB-1 (14-16')	SB-1 (25-27')	SB-2 (11-13')	SB-2 (13-15')	SB-2 (18.5-20.5')	SB-3 (12-14')	SB-3 (18-20')	SB-4 (10-12')	SB-5 (4-6')	SB-5 (16-18')
Lead (ppm)	—	1.18	1.58	1.3	1.05	1.28	2.36	1.58	2.28	20.6	3.54
GRO (ppm)	100	ND	ND	517.3	265.1	1095.8	5.6	1934.3	11.3	3315.3	ND
DRO (ppm)	100	ND	ND	20.4	374.6	58.6	ND	1699.2	ND	548.2	ND
PVOCs (ppb)											
Benzene	5.5	ND	ND	ND	ND	ND	ND	404.6	272.1	ND	232
Ethylbenzene	2900	ND	ND	1344.4	523	71428.6	ND	ND	286.4	120422.3	ND
MTBE	—	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Toluene	1500	ND	ND	1301.5	ND	157142.9	ND	274.6	200.5	11061.9	ND
1,2,4-Trimethylbenzene	—	ND	ND	13433.9	31380.8	164285.7	ND	12427.7	257.7	158027.8	ND
1,3,5-Trimethylbenzene	—	ND	ND	3289.5	8891.2	185714.3	ND	5057.8	1718.2	205436.2	ND
Total Xylene	4100	ND	ND	13673.0	16997.9	471428.5	ND	7948.0	3579.6	580998.7	132.6
PAHs											
Napthalene	—	ND	ND	33	150	250	ND	30	ND	180	ND
1-Methylnapthalene	—	ND	ND	73	340	460	ND	180	ND	240	ND
2-Methylnapthalene	—	ND	ND	18	88	110	ND	40	ND	55	ND
Phenanthrene	—	ND	ND	ND	2.5	2	ND	ND	ND	2.5	ND

ND = No Detect

 = NR 720 exceedance

Exhibit B

**Table 2**

**Soil Analysis  
Date Sampled: February 1 and 2, 1994**

Parameter	NR 720 Soil Standard	Sample I.D.								
		SB-6 (10-12')	SB-6 (20-22')	SB-7 (10-12')	SB-7 (18-20')	SB-8 (9-11')	SB-8 (13-15')	SB-8 (22-24')	SB-9 (16-18')	SB-9 (22-24')
Lead (ppm)	—	2.58	.85	2.4	1.48	4.5	3.69	.69	ND	ND
GRO (ppm)	100	ND	7.6	ND	7.3	40.8	21.1	ND	ND	ND
DRO (ppm)	100	ND	ND	ND	ND	31.2	ND	ND	ND	ND
PVOCs (ppb)										
Benzene	5.5	ND	ND	ND	ND	ND	ND	ND	ND	ND
Ethylbenzene	2900	ND	ND	ND	ND	43.6	81.6	ND	ND	ND
MTBE	—	ND	ND	ND	ND	ND	ND	ND	ND	ND
Toluene	1500	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,2,4-Trimethylbenzene	—	ND	ND	ND	ND	313.6	2.1	ND	ND	ND
1,3,5-Trimethylbenzene	—	ND	ND	ND	ND	156.8	25.7	ND	ND	ND
Total Xylene	4100	ND	ND	ND	ND	290.4	67.1	ND	ND	ND

ND = No Detect

Exhibit B

Table 3

Soil Analysis  
Date Sampled: April 4 and 5, 1994

Parameter	NR 720 Soil Standard	Sample I.D.									
		SB-10 (8-10')	SB-10 (18-20')	SB-11 (8-10')	SB-11 (16-18')	SB-12 (16-18')	SB-12 (22-24')	SB-13 (6-8')	SB-13 (18-20')	SB-14 (16-18')	SB-14 (22-24')
Lead (ppm)	—	ND	ND	ND	ND	ND	ND	5.5	ND	ND	ND
GRO (ppm)	100	ND	ND	ND	ND	ND	ND	10	10	ND	ND
DRO (ppm)	100	ND	ND	5.1	ND	ND	ND	650	34	ND	ND
PVOcs (ppb)											
Benzene	5.5	ND	ND	ND	ND	71	300	ND	980	470	110
Ethylbenzene	2900	ND	ND	97	ND	34	ND	5200	530	ND	ND
MTBE	—	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Toluene	1500	ND	ND	ND	ND	ND	ND	ND	700	ND	ND
1,2,4-Trimethylbenzene	—	ND	ND	ND	ND	120	ND	ND	960	ND	ND
1,3,5-Trimethylbenzene	—	ND	ND	ND	ND	ND	ND	ND	330	ND	ND
Total Xylene	4100	ND	ND	ND	ND	35	ND	ND	1000	ND	ND
PAHs											
1,2-Benzo(a)anthracene	—	ND	ND	ND	ND	ND	1.2	ND	.77	.79	ND
3,4-Benzopyrene	—	ND	ND	ND	ND	ND	.78	ND	ND	.78	ND
2-Methylnaphthalene	—	ND	ND	ND	ND	ND	ND	ND	74	ND	ND

ND = No Detect

 = NR 720 exceedance

Exhibit B

## Graf Creamery Groundwater Analysis

Parameter	ES	PAL	MW-1												
			3/16/94	6/29/94	5/22/96	11/25/96	4/7/97	7/21/97	10/22/97	1/13/98	4/7/98	7/9/98	1/14/99	4/7/99	7/19/99
<b>PVOC (ug/l)</b>															
Benzene	5	.5	ND	30	4.5	0.6	<0.5	<0.5	1.59	<0.5	2.51	0.555	1.9	0.68	0.89
Ethylbenzene	700	140	ND	10	5.0	0.8	<1.0	<1.0	4.36	1.14	5.38	<1.0	3.6	2.9	1.5
MTBE	60	12	ND	ND	<2.0	0.5	NA	<1.0	<1.0	<1.0	<1.0	<1.0	4.5	2.0	0.83
Toluene	343	68.6	ND	ND	1.7	1.8	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	0.73	0.34	3.9
Trimethylbenzenes	480	96	536	48	9.1	2.2	<1.0	<1.0	3.39	1.15	4.8	2.73	2.07	2.4	0.72
Xylene	620	124	20	ND	5.2	2.4	<1.0	<1.0	1.94	<1.0	2.31	<1.0	2.69	2.45	1.4
<b>RNA Indicators (mg/l)</b>															
Nitrate	10	2	NA	NA	NA	NA	1.36	<0.3	<0.3	<0.3	<0.3	<0.3	<0.090	<0.090	<0.090
Sulfate	-	-	NA	NA	NA	NA	48.3	46.8	42.3	44.1	38.5	54.8	52	53	55
Iron	-	-	NA	NA	NA	NA	1.5	1.5	1.5	1.0	1.5	0.1	2.0	2.0	1.0
Dissolved O <sub>2</sub>	-	-	NA	NA	NA	NA	0.4	0.0	1.4	0.1	0.1	0.4	0.9	0.3	0.2
Methane (ug/l)	-	-	NA	NA	NA	NA	NA	NA	NA	1.4	4.76	NA	NA	NA	NA

Parameter	ES	PAL	MW-7												
			3/16/94	6/29/94	5/22/96	11/25/96	4/7/97	7/21/97	10/22/97	1/13/98	4/7/98	7/9/98	1/14/99	4/7/99	7/19/99
<b>PVOC (ug/l)</b>															
Benzene	5	.5	430	4.9	575	92	104	113	18.1	12.4	430	57.3	1.7	19	58
Ethylbenzene	700	140	51	30	38	14	18.1	61.0	19.6	15.3	82.6	31.1	3.8	5.2	8.6
MTBE	60	12	ND	ND	<2.0	1.0	NA	<1.0	<1.0	<1.0	<5.0	<1.0	1.6	2.2	3.1
Toluene	343	68.6	ND	4.0	24	1.8	1.92	2.52	1.68	<1.0	30.6	1.17	0.76	2.0	6.3
Trimethylbenzenes	480	96	25	29.1	11	2.1	17.61	23.4	2.16	1.96	22.5	8.58	1.2	1.7	1.4
Xylene	620	124	23	49	24.2	1.6	13.95	24.99	4.03	2.73	50.0	3.66	1.92	5.2	3.7
<b>RNA Indicators (mg/l)</b>															
Nitrate	10	2	NA	NA	NA	NA	0.35	<0.3	<0.3	<0.3	0.376	<0.3	0.36	<0.090	<0.090
Sulfate	-	-	NA	NA	NA	NA	59.4	22.5	131	155	66.9	334.1	49	50	46
Iron	-	-	NA	NA	NA	NA	2.0	5.0	2.5	1.0	3.0	3.0	3.0	3.0	2.0
Dissolved O <sub>2</sub>	-	-	NA	NA	NA	NA	0.4	0.2	0.6	0.1	0.4	0.2	0.4	0.2	0.2
Methane (ug/l)	-	-	NA	NA	NA	NA	NA	NA	NA	68	259	NA	NA	NA	NA

NA = Not analyzed

= ES exceedance

= PAL exceedance

## Graf Creamery Groundwater Analysis

Parameter	ES	PAL	MW-8												
			3/16/94	6/29/94	5/22/96	11/25/96	4/7/97	7/21/97	10/22/97	1/13/98	4/7/98	7/9/98	1/14/99	4/7/99	7/19/99
<b>PVOCs (ug/l)</b>															
Benzene	5	.5	ND	30	0.9	1.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.26	0.56	<0.26
Ethylbenzene	700	140	ND	880	0.8	3.5	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<0.24	<0.24	<0.24
MTBE	60	12	ND	ND	<0.2	<0.3	NA	<1.0	<1.0	<1.0	<1.0	<1.0	3.1	1.7	1.4
Toluene	343	68.6	ND	310	<0.2	0.3	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	0.96	0.31	3.5
Trimethylbenzenes	480	96	ND	319	<0.2	2.6	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<0.86	<0.86	<0.86
Xylene	620	124	ND	1600	<0.4	<0.3	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<0.97	<0.97	<0.97
<b>RNA Indicators (mg/l)</b>															
Nitrate	10	2	NA	NA	NA	NA	<0.3	<0.3	<0.3	<0.3	<0.3	<0.3	0.36	<0.090	<0.090
Sulfate	-	-	NA	NA	NA	NA	65.1	58.9	53.7	54.0	36.5	54.1	51	58	66
Iron	-	-	NA	NA	NA	NA	4.0	8.0	3.0	3.5	4.0	0.1	4.0	4.0	1.0
Dissolved O <sub>2</sub>	-	-	NA	NA	NA	NA	0.1	0.9	0.1	0.1	0.1	0.3	0.7	0.1	0.0
Methane (ug/l)	-	-	NA	NA	NA	NA	NA	NA	NA	1.2	5.02	NA	NA	NA	NA

Parameter	ES	PAL	MW-9												
			6/29/94	5/22/96	11/25/96	4/7/97	7/21/97	10/22/97	1/13/98	4/7/98	7/9/98	1/14/99	4/7/99	7/19/99	
<b>PVOCs (ug/l)</b>															
Benzene	5	.5	ND	<0.2	<0.2	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.26	<0.26	<0.26
Ethylbenzene	700	140	ND	<0.2	<0.2	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<0.24	<0.24	<0.24
MTBE	60	12	ND	<0.2	<0.2	NA	1.37	1.40	1.87	<1.0	<1.0	<1.0	6.3	5.7	6.0
Toluene	343	68.6	ND	<0.2	<0.2	<1.0	1.14	<1.0	<1.0	<1.0	<1.0	<1.0	0.46	0.35	3.2
Trimethylbenzenes	480	96	ND	<0.3	<0.3	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	1.66	<0.86	<0.86
Xylene	620	124	ND	<0.4	<0.4	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	2.43	<0.97	<0.97
<b>RNA Indicators (mg/l)</b>															
Nitrate	10	2	NA	NA	NA	0.66	4.37	<0.3	<0.3	1.04	0.590	0.38	<0.090	<0.090	
Sulfate	-	-	NA	NA	NA	57.6	55.5	53.4	55.2	38.5	48.9	53	54	61	
Iron	-	-	NA	NA	NA	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	
Dissolved O <sub>2</sub>	-	-	NA	NA	NA	2.5	1.5	1.1	0.3	2.8	1.3	2.0	1.2	1.0	
Methane (ug/l)	-	-	NA	NA	NA	NA	NA	NA	1.1	1.01	NA	NA	NA	NA	

NA = Not analyzed

= ES exceedance

= PAL exceedance

## Graf Creamery Groundwater Analysis

Parameter	ES	PAL	MW-12											
			6/29/94	5/22/96	11/25/96	4/7/97	7/21/97	10/22/97	1/13/98	4/7/98	7/9/98	1/14/99	4/7/99	7/19/99
<b>PVOCs (ug/l)</b>														
Benzene	5	.5	2600	52	461	109	394	646	345	189	272	180	75	79
Ethylbenzene	700	140	210	50	184	22.6	70.5	150	74.5	31.4	53.3	46	4.5	27
MTBE	60	12	ND	<0.2	<3.0	<1.0	<1.0	<10.0	<20.0	<10.0	<10.0	0.79	0.54	<0.22
Toluene	343	68.6	54	1.0	27	5.50	28.0	49.2	24.3	<10.0	<10.0	16	1.2	5.2
Trimethylbenzenes	480	96	ND	16.8	60	15.0	69.1	52.8	35.6	14.9	29.2	34.3	9.9	23.2
Xylene	620	124	100	21.0	170	43.95	111.4	149.2	131.2	52.2	63.8	78	9.9	22.6
<b>RNA Indicators (mg/l)</b>														
Nitrate	10	2	NA	NA	NA	<0.3	5.30	<0.3	<0.3	<0.3	0.307	<0.090	<0.090	<0.090
Sulfate	-	-	NA	NA	NA	24.3	31.2	27.1	36.6	26.8	40.7	93	35	38
Iron	-	-	NA	NA	NA	1.0	1.5	2.0	1.0	1.5	1.0	3.0	2.0	2.0
Dissolved O <sub>2</sub>	-	-	NA	NA	NA	0.2	0.2	0.6	0.0	0.8	0.5	0.6	0.3	0.2
Methane (ug/l)	-	-	NA	NA	NA	NA	NA	NA	14	39.3	NA	NA	NA	NA

Parameter	ES	PAL	MW-14											
			6/29/94	5/22/96	11/25/96	4/7/97	7/21/97	10/22/97	1/13/98	4/7/98	7/9/98	1/14/99	4/7/99	7/19/99
<b>PVOCs (ug/l)</b>														
Benzene	5	.5	1600	546	5.3	44.4	8.36	0.69	21.4	1.15	71.2	170	21	0.61
Ethylbenzene	700	140	ND	<2.0	1.4	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<0.24	<0.24	<0.24
MTBE	60	12	ND	<2.0	<0.3	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	0.34	<0.22	<0.22
Toluene	343	68.6	ND	5.7	0.6	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	0.22	<0.21	3.0
Trimethylbenzenes	480	96	ND	<2.0	1.3	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<0.86	<0.86	<0.86
Xylene	620	124	ND	<4.0	1.3	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<0.97	<0.97	<0.97
<b>RNA Indicators (mg/l)</b>														
Nitrate	10	2	NA	NA	NA	0.94	3.65	<0.3	<0.3	0.544	0.766	<0.090	<0.090	0.39
Sulfate	-	-	NA	NA	NA	22.4	37.8	32.1	36.9	25.8	19.5	36	32	36
Iron	-	-	NA	NA	NA	1.0	2.5	2.5	2.0	2.5	2.0	4.0	3.5	3.0
Dissolved O <sub>2</sub>	-	-	NA	NA	NA	0.6	0.1	1.5	0.1	0.3	0.6	0.3	0.1	0.3
Methane (ug/l)	-	-	NA	NA	NA	NA	NA	NA	12	4.29	NA	NA	NA	NA

NA = Not analyzed

= ES exceedance

= PAL exceedance

## Graf Creamery Groundwater Analysis

Parameter	ES	PAL	MW-15												
			1/25/95	5/22/96	11/25/96	4/7/97	7/21/97	10/22/97	1/13/98	4/7/98	7/9/98	1/14/99	4/7/99		
<b>PVOC (ug/l)</b>															
Benzene	5	.5	ND	<0.2	1.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.26	<0.26	<0.26
Ethylbenzene	700	140	ND	<0.2	<0.2	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<0.24	<0.24	<0.24
MTBE	60	12	ND	0.70	<0.3	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<0.22	<0.22	<0.22
Toluene	343	68.6	ND	<0.2	<0.2	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	0.24	<0.21	4.9
Trimethylbenzenes	480	96	ND	<0.3	<0.4	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<0.86	<0.86	<0.86
Xylene	620	124	ND	<0.4	<0.3	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<0.97	<0.97	<0.97
<b>RNA Indicators (mg/l)</b>															
Nitrate	10	2	NA	NA	NA	2.41	0.749	<0.3	0.710	1.37	<0.3	1.8	1.1	2.1	
Sulfate	-	-	NA	NA	NA	26.7	29.2	29.2	25.2	13.8	1.5	43	24	43	
Iron	-	-	NA	NA	NA	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	
Dissolved O <sub>2</sub>	-	-	NA	NA	NA	1.6	1.3	1.1	0.8	2.0	0.5	0.6	1.6	0.2	
Methane (ug/l)	-	-	NA	NA	NA	NA	NA	NA	<0.5	<1.0	NA	NA	NA	NA	

Parameter	ES	PAL	EX-1										
			11/25/96	4/7/97	7/21/97	10/22/97	1/13/98	4/7/98	7/9/98	1/14/99	4/7/99	7/19/99	
<b>PVOC (ug/l)</b>													
Benzene	5	.5	2970	4280	5557	3740	3710	3820	6110	2800	2700	2600	
Ethylbenzene	700	140	451	1500	1950	1300	1050	1950	2140	760	1500	1400	
MTBE	60	12	<30	<1.0	<1.0	<100.0	<50.0	<100.0	<100.0	<11.0	15	<11	
Toluene	343	68.6	6460	10,100	9418	9970	6690	8360	9880	2200	4300	2500	
Trimethylbenzenes	480	96	1409	2844	1482	1009	1031	1634	1488	2380	1560	1570	
Xylene	620	124	7450	12,660	11,263	8590	7490	11,090	10,250	13,200	9100	8400	
<b>RNA Indicators (mg/l)</b>													
Nitrate	10	2	NA	<0.3	<0.3	<0.3	<0.3	<0.3	<0.3	<0.3	<0.090	<0.090	<0.090
Sulfate	-	-	NA	3.51	19.3	2.2	1.79	4.50	1.5	1.2	8.9	5.9	
Iron	-	-	NA	10	15	35	10.0	20	15	25	20	38	
Dissolved O <sub>2</sub>	-	-	NA	1.6	1.3	1.2	0.1	0.9	0.1	0.4	0.4	0.4	
Methane (ug/l)	-	-	NA	NA	NA	NA	1200	2160	NA	NA	NA	NA	

NA = Not analyzed

= ES exceedance

= PAL exceedance