

GRCRS Package Cover Sheet

Site Name WI DOT Amoco/Rezin Site  
Former Amoco Bulk Plant No. 007135

Site Address 212 Market St., Warrens, WI

BRRTS # 03-42-001129 Date of Closure Decision 7/12/01

Closure letter(s)

Groundwater Use Restriction/Warranty Deed

Yes/No  Off-site contamination present? (Include related documents)

Yes/No  Right-of-way contamination present? (Include related documents)

General location map

480084 GPS x-coordinate

406472 GPS y-coordinate

Detailed site map(s)

Groundwater flow map(s)

Latest map(s) showing extent or outline of plume

Latest table(s) of analytical results (soil results included only if soil deed restriction is incorporated into groundwater use restriction document)

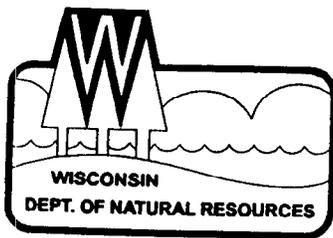
If available:

\_\_\_\_\_ Legal description

\_\_\_\_\_ County and Parcel I.D./Tax Parcel No.

Geologic cross sections

\_\_\_\_\_ Isoconcentrations map(s)



State of Wisconsin \ DEPARTMENT OF NATURAL RESOURCES

Tommy G. Thompson, Governor  
George E. Meyer, Secretary  
Scott A. Humrickhouse, Regional Director

West Central Region Headquarters  
1300 W. Clairemont Avenue  
PO Box 4001  
Eau Claire, Wisconsin 54702-4001  
Telephone 715-839-3700  
FAX 715-839-6076  
TDD 715-839-2786

July 16, 2001

Mr. Ray Stoelting  
Amoco Corporation  
Twin Cities Region  
5001 W. 80<sup>th</sup> St., Suite 875  
Minneapolis, MN 55437-1135

SUBJECT: Former Amoco Bulk Plant-Warrens, WI  
DNR# 03-42-001129

Dear Mr. Stoelting:

On December 20, 1993 the Department of Natural Resources provided a notice to you that the degree and extent of petroleum contamination at the above-named site was required to be investigated and remediated. We have since been informed that the required work has been completed. On July 12, 2001 the above mentioned site was reviewed by the West Central Region Closeout Committee for a determination as to whether or not the case qualified for close out under ch. NR 726, Wis. Adm. Code. Based on the investigative documentation provided to the Department, it appears that the petroleum contamination at the above-named site has been addressed in compliance with the requirements of chs. NR 700 to 724, Wis. Adm. Code. Therefore, the Department considers the case "closed" having determined that no further action is necessary to protect groundwater or human health via direct contact with contaminated soil.

However, due to the presence of residual contamination remaining in the groundwater in the aquifer at the site, a condition of the closeout is that the owner complete, sign and record a groundwater use restriction. This is completed on your behalf by your consultant. If the groundwater use restriction which meets the requirements of NR 726.05(8)(am), Wis. Adm. Code, is recorded with the County Register of Deeds within 45 days, the Department will consider the case closed, having determined that no further action is necessary on the site at this time. The property owner must submit a copy of the recorded affidavit, with the recording information stamped on it, within 15 days after the County Register of Deeds returns the affidavit to the property owner. Prior to recording the groundwater use restriction, please forward a draft copy to me for DNR review.

Based on the closure documentation, it appears that some petroleum contaminated soil remains in the zone just above the water table at the site, under the building on the property. If this contaminated soil should be excavated or disturbed in the future, it must be properly handled unless future testing finds this to be unnecessary. A condition of the closeout is that the owner of the property complete, sign and record a deed notification for the property within 60 days after receipt of this letter and a draft copy returned to me for DNR legal review. Following DNR legal review, the final draft is to be filed by the property owner with the County Register of Deeds. To document that this condition has been met, the property owner must submit a copy of the recorded deed notification, with the recording information stamped on it to the DNR.

Written notification of the presence of residual soil and groundwater contamination remaining within the right of way must be made to the local village clerk and to the municipal department or state agency that is responsible for maintaining the street or highway. Please send a copy of these letters to the DNR also.

The Department's closure is also contingent on the requirement that the groundwater monitoring wells associated with this site be properly abandoned in accordance with ch. NR 141, Wis. Adm. Code. Please submit completed Well/Drillhole/Borehole Abandonment Forms 3300-5B to the Department providing abandonment verification once this task has been completed so that I may assign this site final closure status.

The Department appreciates the actions you have taken in handling the contamination at this site and thereby protecting human health and the environment. If you should have any additional questions related to this matter, please feel free to contact me at (715) 839-2781.

Sincerely,



Kristine Mercer  
Hydrogeologist

C: Lisa Noblet, Delta Environmental, 17500 W. Liberty Lane, Suite A, New Berlin, WI  
Eileen Kramer WCR DNR



## State of Wisconsin \ DEPARTMENT OF NATURAL RESOURCES

Scott McCallum, Governor  
Darrell Bazzell, Secretary  
Scott A. Humrickhouse, Regional Director

West Central Region Headquarters  
1300 W. Clairemont Avenue  
PO Box 4001  
Eau Claire, Wisconsin 54702-4001  
Telephone 715-839-3700  
FAX 715-839-6076  
TTY 715-839-2786

March 28, 2002

BP Products North America Inc.  
Attn: Ms. Tara Popik  
4850 E. 49th St., MBCI-I-110  
Cuyahoga Heights, OH 44125

SUBJECT: Final Closure Letter for Former Amoco Bulk Plant, Warrens, WI  
BRRTS # 03-42-001129 Delta # 29079

Dear Ms. Popik:

On July 12, 2001 your site as described above was reviewed for closure by the West Central Region Closure Committee. This committee reviews environmental remediation cases for compliance with state laws and standards to maintain consistency in the closure of these cases. On July 16, 2001, you were notified that the Closure Committee had granted conditional closure to this case.

On March 12, 2002 the Department received correspondence indicating that you have complied with the conditions of closure. Due to the presence of residual petroleum contamination in the groundwater a condition of the closeout was to complete, sign and record a groundwater use restriction along with a deed notification for the petroleum contaminated soil remaining in place under the building on the property. Copies of the Well/Drillhole/Borehole Abandonment Forms 3300-5B that provide abandonment verification of the monitoring wells have been received as well as a copy of the letter to the Village of Warrens notifying them of the potential petroleum impacts associated with the site beneath Market St./ County Highway O. Based on the correspondence and data provided, it appears that your case has been remediated to Department standards in accordance with s NR726.05, 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 NR726.09, 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 715.839.2871.

Sincerely,

A handwritten signature in cursive script that reads "Kristine Mercer".

Kristine Mercer  
Hydrogeologist  
Bureau of Remediation & Redevelopment

C Lisa Noblet, Delta Env., 17500 W. Liberty Lane, Suite A, New Berlin, WI  
Don and Shirley Hizer, Property Owners



17500 W. Liberty Lane  
Suite A  
New Berlin, WI 53146-2109  
U.S.A.  
262/789-0254  
FAX: 262/789-5483

March 12, 2002

Ms. Kris Mercer  
Wisconsin Department of Natural Resources  
West Central Region Office  
1300 Clairemont Ave.  
Eau Claire, WI 54702

**Subject: Recorded Deed Notice and Groundwater Use Restriction**  
Former Amoco Bulk Plant  
212 Market Street, Warrens, Wisconsin  
BRRTS No. 03-42-001129  
Delta No. 29079

RECEIVED  
MAR 14 2002  
DNR-WCEN

Dear Ms. Mercer:

This document is being submitted by Delta Environmental Consultants, Inc. on behalf of BP Products North America Inc. (BP), formerly known as Amoco Oil Company, for the above referenced site. Please note that there is a new contact for BP. The contact information is presented below:

Attn: Ms. Tara Popik  
BP Products North America Inc.  
4850 E. 49<sup>th</sup> Street, MBCI-I-110  
Cuyahoga Heights, OH 44125

Enclosed please find a copy of the certified groundwater use restriction for the subject site. A copy of the residual contamination notification to road owner was submitted to the Wisconsin Department of Natural Resources (WDNR) on July 19, 2001. Well abandonment documentation was submitted to the WDNR on August 17, 2001. In accordance with the WDNR conditional closure letter dated July 16, 2001, all requirements for case closure have been met.

Delta, on behalf of BP, respectfully requests that the WDNR issue a final closure/no further action letter. If you have any questions regarding the site in general or the information enclosed please do not hesitate to contact me at (262) 827-4819.

Sincerely,

**DELTA ENVIRONMENTAL CONSULTANTS, INC.**

A handwritten signature in black ink, appearing to read "Lisa Noblet", is written over a horizontal line.

Lisa Noblet, P.G.  
Project Geologist

Enclosure

c: Tara Popik – BP  
Mike VanderPlaats - Delta  
Don and Shirley Hizer – Property Owners

Document Number

**DEED NOTICE AND  
GROUNDWATER USE RESTRICTION**

8228989

REGISTER'S OFFICE | SS  
Milwaukee County, WI

RECORDED AT 9:17 AM

02-21-2002

WALTER R. BARCZAK  
REGISTER OF DEEDS

AMOUNT 15.00

**Declaration of Restriction**

Lot One (1) of Certified Survey Map recorded in Vol. 7 of CSM at page 10 as Doc. No. 387659, located in Lot One (1), Block Six (6), Original Plat, Village of Warrens, Monroe County, Wisconsin.

The East 15 feet of Lot Two (2), Block Six (6), Original Plat to the Village of Warrens, Monroe County, Wisconsin, described as follows: Commencing at the SW corner of Block 6; thence S89 degrees 51'25" E, along the North line of Market Street, 186.29 feet to the point of beginning; thence N0 degrees 03'35" E, 115.60 feet to the Northerly line of Lot 2 of said Block 6, also, being the southerly line of the Chicago and Northwestern Railroad; thence Southeasterly along a curve concave to the Southwest, having a radius of 1859.86 feet (long chord bears S44 degrees 25'45"E, 21.41 feet), 21.41 feet to the NE corner of said Lot 2, Block 6; thence S0 degrees 03'35"W, 100.35 feet to the SE corner of said Lot 2, Block 6; thence N89 degrees 51'25"W 15.00 feet to the point of beginning.

**Recording Area**

**Name and Return Address**

Donald G. and Shirley J. Hizer  
212 Market Street  
Warrens, WI 54666

STATE OF WISCONSIN     )  
                                          ) SS  
COUNTY OF MONROE     )

WHEREAS, **Donald G. Hizer and Shirley J. Hizer**, husband and wife, are the owners of the above described property.

WHEREAS, one or more petroleum discharges have occurred at this property. Groundwater contamination above ch. NR 140, Wis. Adm. Code, enforcement standards existed on this property at the location of groundwater monitoring well MW-3 on December 28, 2000 at the following concentrations: benzene at 55 micrograms per liter (µg/l), toluene at 1500 µg/l, ethylbenzene at 1200 µg/l, total trimethylbenzene at 1220 µg/l, naphthalene at 60 µg/l, and dissolved lead at 19 µg/l. Soil and bedrock contamination above ch. NR 720, Wis. Adm. Code, generic residual contaminant levels existed on this property at the location of MW-3 in a sample collected on April 26, 1994 at the following concentrations: benzene at 2 milligrams per kilogram (mg/kg), toluene at 49 mg/kg, ethylbenzene at 34 mg/kg, total xylenes at 120 mg/kg, gasoline range organics at 960 mg/kg, and diesel range organics at 380 mg/kg. The location of MW-3 is depicted on Figure 1, which is attached and hereby made part of this document.

WHEREAS, it is the desire and intention of the property owner to impose on the property restrictions which will make it unnecessary to conduct further groundwater or soil remediation activities on the property at the present time.

WHEREAS, one purpose of recording this document is to notify the prospective purchasers and other interested parties that petroleum contamination existed in the soil and bedrock on this property in samples that were collected in 1994 at the location of MW-3 as shown on Figure 1.

WHEREAS, natural attenuation has been approved by the Department of Natural Resources to remediate groundwater contamination exceeding ch. NR 140, Wis. Adm. Code groundwater standards within the boundaries of this property:

WHEREAS, construction of wells where the water quality does not comply with drinking water standards in ch. NR 809, Wis. Adm. Code is restricted by chs. NR 811 and 812, Wis. Adm. Code. Special well construction standards or water treatment requirements, or both, or well construction prohibitions may apply.

3

NOW THEREFORE, the owner hereby declares that all of the property described above is held and shall be held, conveyed or encumbered, leased, rented, used, occupied and improved subject to the following limitation and restrictions:

Anyone who proposes to construct or reconstruct a well on this property is required to contact the Department of Natural Resources' Bureau of Drinking Water and Groundwater, or its successor agency, to determine what specific requirements are applicable, prior to constructing or reconstructing a well on this property. No well may be constructed on this property unless applicable requirements are met.

If construction is proposed on this property that will require dewatering, or if groundwater is to be otherwise extracted from this property, while this groundwater use restriction is in effect, the groundwater shall be sampled and analyzed for contaminants that were previously detected on the property and any extracted groundwater shall be managed in compliance with the applicable statutes and rules.

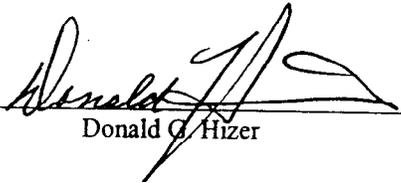
This restriction is hereby declared to be a covenant running with the land and shall be fully binding upon all persons acquiring the above-described property whether by descent, devise, purchase or otherwise. This restriction benefits and is enforceable by, the Wisconsin Department of Natural Resources, its successors and 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 are no longer required. Upon 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 to give notice that this deed restriction or portions of this deed restriction, are no longer binding.

IN WITNESS WHEREOF, the owners of the property have executed this Declaration of Restrictions, this 4 day of FEB, 2002.

Owner:

Signature:

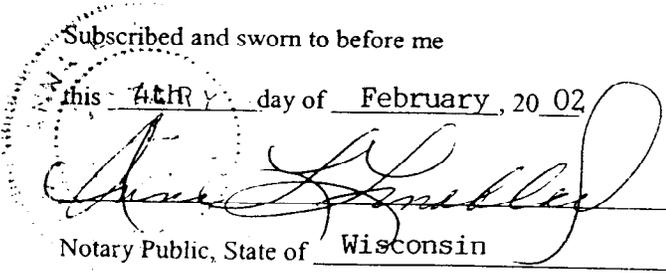
  
Donald G. Hizer

Signature:

  
Shirley J. Hizer

Subscribed and sworn to before me

this 4th day of February, 2002



Notary Public, State of Wisconsin

My commission expires 7/3/05

Property Address: Former Amoco Bulk Plant, 212 Market Street, Warrens, Wisconsin.

This document was drafted by Delta Environmental Consultants, Inc. based on comments from the Wisconsin Department of Natural Resources.

**247553**

CERTIFICATE NO. \_\_\_\_\_

STATE OF WISCONSIN  
MILWAUKEE COUNTY ss.

OFFICE OF  
REGISTER OF DEEDS

I, the undersigned,  
Register of Deeds of  
Milwaukee County,  
hereby certify that  
this document is a  
true and correct copy  
of the original on  
file or record in  
this office.

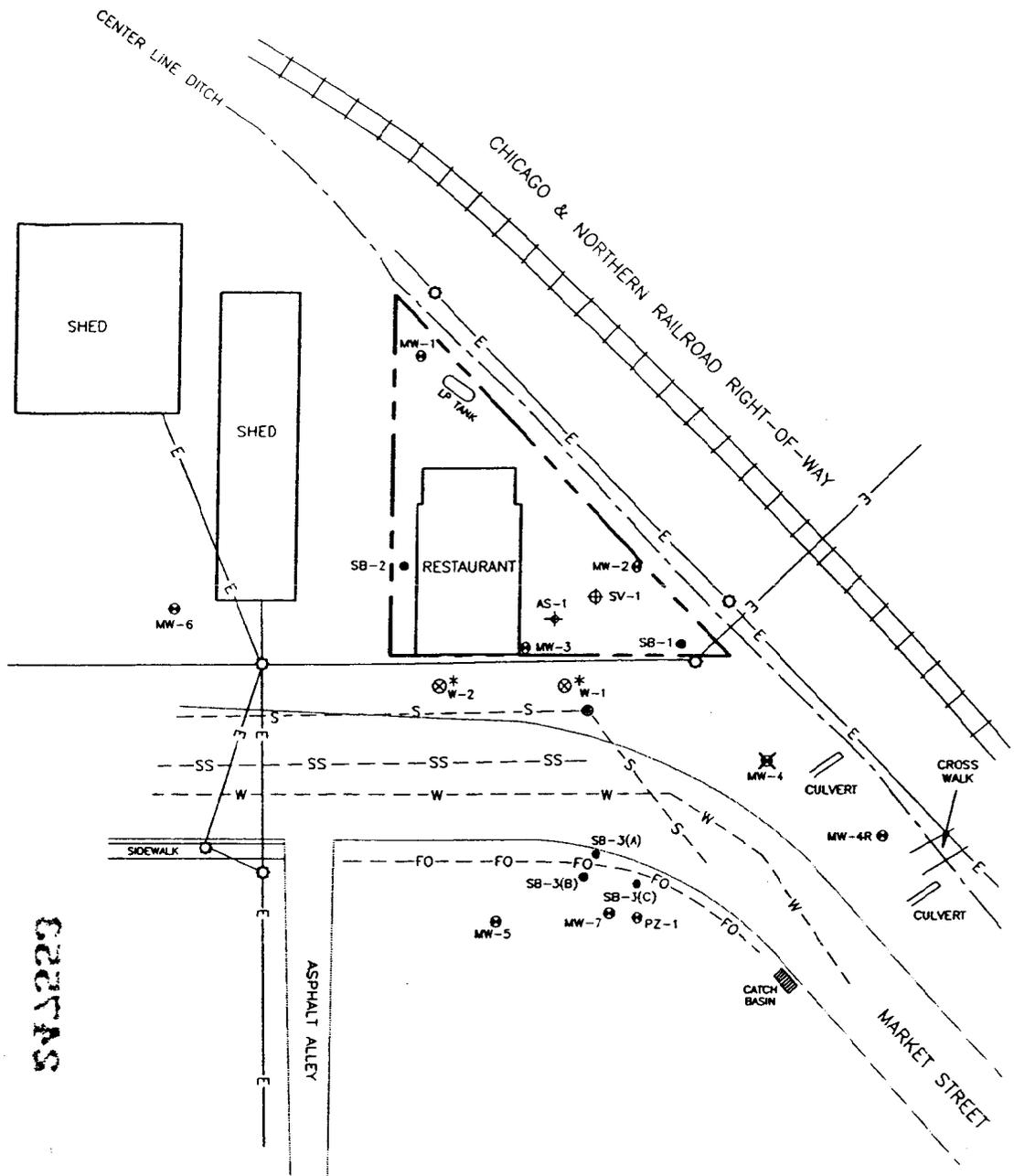
Witness my hand and  
official seal this

**FEB 21 2000**

*Walter R. Barczak*

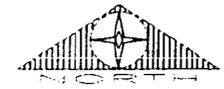
Walter R. Barczak





S42223

GRASS



**LEGEND**

- PROPERTY BOUNDARY
- ⊕ MONITORING WELL LOCATION
- ⊗ ABANDONED MONITORING WELL LOCATION
- SOIL BORING LOCATION
- MANHOLE
- POWER POLE
- W- UNDERGROUND WATER LINE
- S- UNDERGROUND STORM SEWER LINE
- SS- UNDERGROUND SANITARY SEWER LINE
- FO- UNDERGROUND FIBER OPTIC LINE
- E- ABOVE GROUND ELECTRIC LINE
- ⊕ SVE POINT LOCATION
- ⊕\* AIR SPARGE POINT LOCATION
- ⊗\* APPROXIMATE LOCATION OF ADVENT TEMPORARY WELLS

NOTE: THE LOCATION OF MW-4R IS APPROXIMATE.

**FIGURE 1**  
SITE MAP

FORMER AMOCO PLANT #007135  
212 MARKET STREET  
WARRENS, WISCONSIN

PROJECT NO: 2907-904	DRAWN BY: DO
PREPARED BY: PA	DATE: 6/18/01
FILE NAME: 94829	



495196

Document Number

STATE BAR OF WISCONSIN FORM 1 - 1998  
WARRANTY DEED

RECORDS

VOL

339 PAGE 462

This Deed, made between John M. Gillespie and Mildred J. Gillespie, husband and wife

and Donald G. Hizer and Shirley J. Hizer, husband and wife, as survivorship marital property Grantor.

Grantor, for a valuable consideration, conveys to Grantee the following described real estate in MONROE County, State of Wisconsin (the "Property"):

Lot One (1) of Certified Survey Map recorded in Vol. 7 of GSM at page 10 as Doc. No. 387659, located in Lot One (1), Block Six (6), Original Plat, Village of Warrens, Monroe County, Wisconsin.

The East 15 feet of Lot Two (2), Block Six (6), Original Plat to the Village of Warrens, Monroe County, Wisconsin, described as follows: Commencing at the SW corner of Block 6; thence S89 degrees 51'25"E, along the North line of Market Street, 186.29 feet to the point of beginning; thence N0 degrees 03'35"E, 115.60 feet to the Northerly line of Lot 2 of said Block 6, also, being the southerly line of the Chicago and Northwestern Railroad; thence Southeasterly along a curve concave to the Southwest, having a radius of 1859.86 feet (long chord bears S44 degrees 25'45"E, 21.41 feet), 21.41 feet to the NE corner of said Lot 2, Block 6; thence S0 degrees 03'35"W, 100.35 feet to the SE corner of said Lot 2, Block 6; thence N89 degrees 51'25"W 15.00 feet to the point of beginning.

Together with all appurtenant rights, title and interests.

Grantor warrants that the title to the Property is good, indefeasible in fee simple and free and clear of encumbrances except municipal zoning ordinances, related agreements, recorded easements for utility and municipal services, recorded building and use restrictions and covenants, general taxes levied in the year of closing, all other matters of record and those items which would be disclosed by a current survey.

Dated this 23rd day of March 2001

(SEAL)

John M. Gillespie (SEAL)  
John M. Gillespie

(SEAL)

Mildred J. Gillespie (SEAL)  
Mildred J. Gillespie

AUTHENTICATION

**TRANSFER**  
**\$ 240.00**  
**FEE**

ACKNOWLEDGMENT

Signature(s) \_\_\_\_\_

State of Wisconsin,

Monroe County, ss.

Personally came before me this 23rd day of March 2001, the above named John M. Gillespie and Mildred J. Gillespie, his wife

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

Penny J. Precour-Berry  
Notary Public, State of Wisconsin  
My commission is permanent. (If not, state expiration date: \_\_\_\_\_)

TITLE: MEMBER STATE BAR OF WISCONSIN

(If not, authorized by §708.06, Wis. Stats.)

THIS INSTRUMENT WAS DRAFTED BY

Penny J. Precour-Berry  
MUBARAK & RADCLIFFE, S.C.  
917 Superior Av., Tomah, WI 54660

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

\* Name of person signing in any capacity must be typed in printed letters their signature

STATE BAR OF WISCONSIN  
FORM No. 1 - 1998

Wisconsin Legal Blank Co., Inc.  
Mauwabe, Wis.

DESCRIPTION: Lot 1, Block 6, Original Plat, Village of Warrens, Monroe County, Wisconsin.

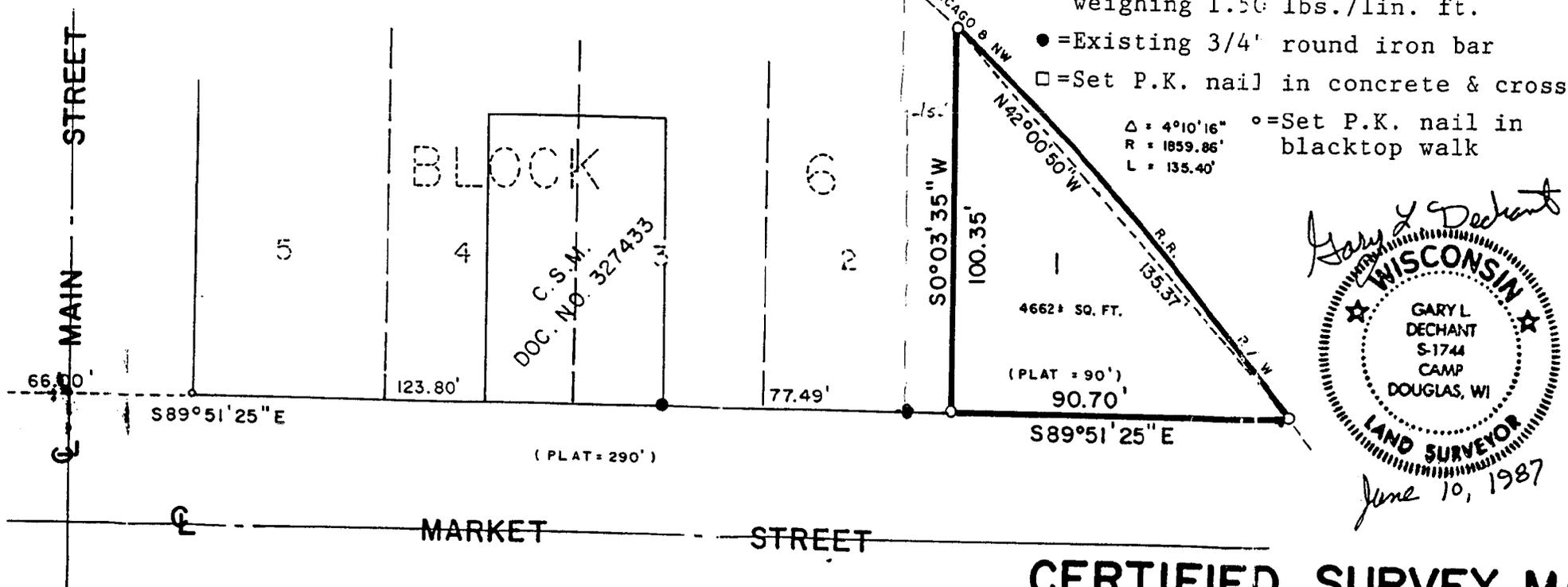
SURVEYOR'S CERTIFICATE: I, Gary L. Dechant, being a duly qualified Surveyor, do hereby certify that by the order and under the direction of Mr. Robert Dana, I have surveyed and mapped the above described property and that the within map is a true and correct representation of the exterior boundaries of the lands surveyed and that I have complied with the provisions of Chapter 236.34 of the Wisconsin Statutes to the best of my knowledge and belief.

*Gary L. Dechant*

GARY L. DECHANT, REGISTERED LAND SURVEYOR, S-1744  
FEDDERSEN ENGINEERING AND SURVEYING  
TOMAH, WISCONSIN

SCALE: 1" = 40'

Bearings referenced to the North line  
of Market St., assumed to bear S89°51'25"E.



Survey Crew: David E. Madison  
Scott Teebo  
Gary L. Dechant

**CERTIFIED SURVEY MAP**

Lot 1, Block 6, Original Plat of  
Village of Warrens, Monroe County,  
Wisconsin.

File 959-D

# COPY



July 19, 2001

Ms. Donna Steffens  
Warrens Village Clerk  
612 Colton Ct.  
Warrens, WI 54666

RECEIVED  
JUL 23 2001  
DNR-WI

17500 W. Liberty Lane  
Suite A  
New Berlin, WI 53146-2109  
U.S.A.  
262/789-0254  
FAX: 262/789-5483

**Subject: Notification of Potential Residual Petroleum Contamination**  
Former Amoco Bulk Plant  
212 Market Street  
Warrens, Wisconsin  
Delta Project No. 29079

Dear Ms. Steffens:

The Wisconsin Department of Natural Resources (WDNR) has granted conditional case closure to the above referenced petroleum remediation site. As part of the conditional closure, the WDNR has requested that the village clerk and road owner be notified of potential residual petroleum impacts, associated with the subject site, beneath Market Street/County Highway "O". A copy of the WDNR closure letter is attached. The following information is intended to meet the notification requirement requested by the WDNR.

Tables that summarize historical soil and groundwater analytical results for the monitoring wells are attached. Also attached are figures illustrating monitoring well locations and displaying the most recent soil and groundwater analytical results.

Impacted soil concentrations above WDNR residual contamination levels were observed at monitoring well MW-3 near the Market Street right of way in 1994. Note that some degree of attenuation may have occurred over the past seven years. Residual groundwater contamination above enforcement standards was also detected in monitoring well MW-3 during the most recent sampling event in September 2000.

Should you have any questions or require additional information regarding this site, please do not hesitate to contact me at (262) 827-4800.

Sincerely,

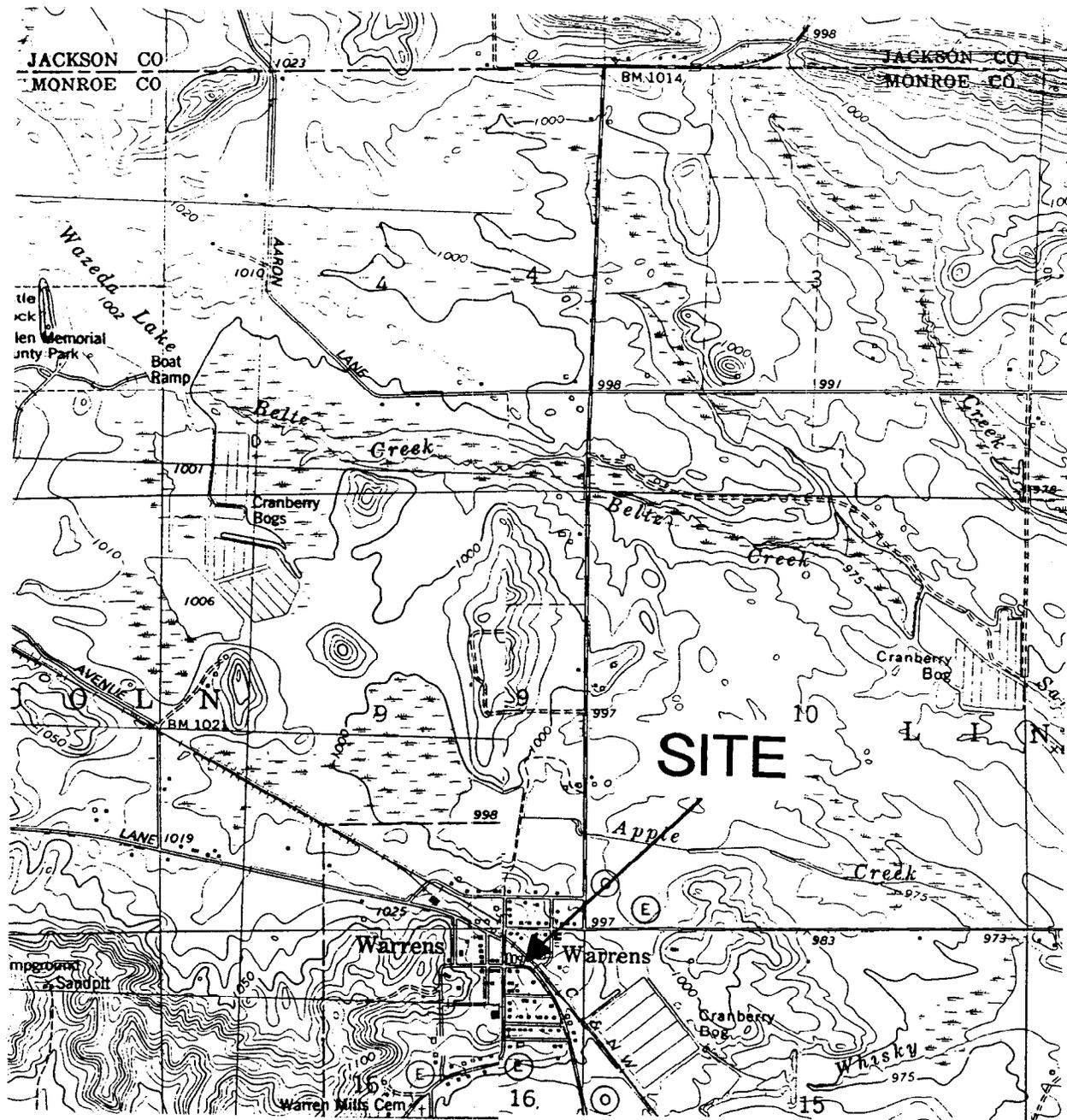
**DELTA ENVIRONMENTAL CONSULTANTS, INC.**

A handwritten signature in black ink, appearing to read "S. Rademaker", is written over a horizontal line.

Scott Rademaker  
Hydrogeologist

**Attachments**

c: Ray Stoelting - Amoco  
Kristine Mercer - WDNR  
Jack Dittmar - Monroe County Highway Commissioner  
Shirley Hizer - Property Owner



WARRENS WEST QUADRANGLE  
AND  
WARRENS EAST QUADRANGLE  
WISCONSIN  
7.5 MINUTE SERIES (TOPOGRAPHIC)



QUADRANGLE LOCATION

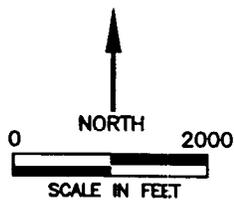
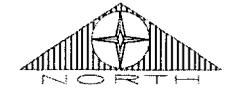
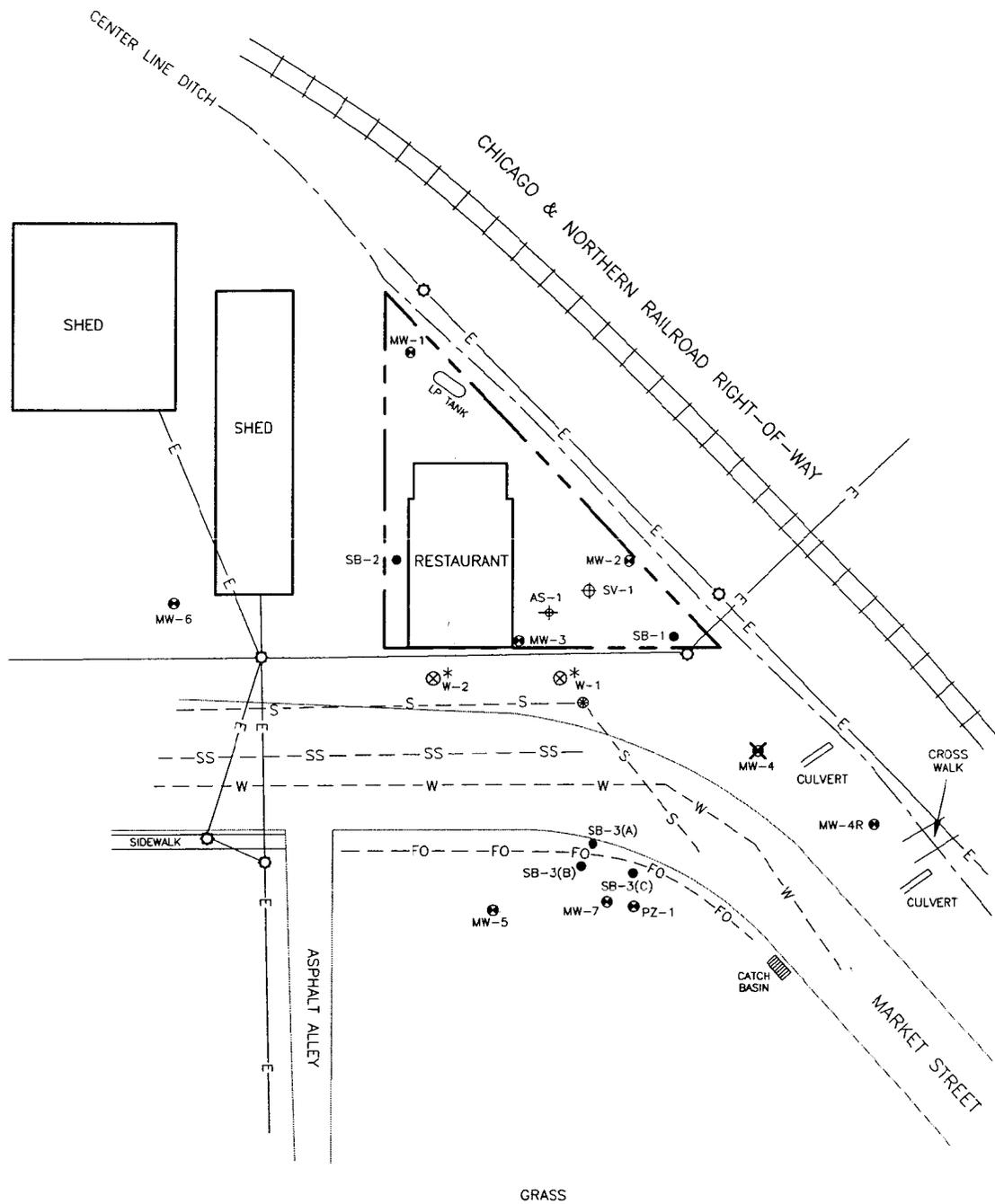


FIGURE 1  
SITE VICINITY MAP  
FORMER AMOCO PLANT #007135  
WARRENS, WISCONSIN

PROJECT NO. 1094-829	PREPARED BY ERD/KR
DATE 4/20/95	REVIEWED BY





**LEGEND**

- PROPERTY BOUNDARY
- ⊙ MONITORING WELL LOCATION
- ⊙ ABANDONED MONITORING WELL LOCATION
- SOIL BORING LOCATION
- ⊙ MANHOLE
- ⊙ POWER POLE
- W--- UNDERGROUND WATER LINE
- S--- UNDERGROUND STORM SEWER LINE
- SS--- UNDERGROUND SANITARY SEWER LINE
- FO--- UNDERGROUND FIBER OPTIC LINE
- E--- ABOVE GROUND ELECTRIC LINE
- ⊕ SVE POINT LOCATION
- ⊕ AIR SPARGE POINT LOCATION
- ⊙\* APPROXIMATE LOCATION OF ADVENT TEMPORARY WELLS

NOTE: THE LOCATION OF MW-4R IS APPROXIMATE.

**FIGURE 1**  
SITE MAP

FORMER AMOCO PLANT #007135  
212 MARKET STREET  
WARRENS, WISCONSIN

PROJECT NO.: 2907-904	DRAWN BY: DD
PREPARED BY: PA	DATE: 6/18/01
FILE NAME: 94829	



**Table 2**  
**Groundwater Analytical Results - Polynuclear Aromatic Hydrocarbons**  
Former Amoco Bulk Plant  
212 Market Street  
Warrens, WI  
Delta Project No. 29079

Sample ID	Analytical Parameters																	
	Acenaphthene	Acenaphthylene	Anthracene	Benzo(a)anthracene	Benzo(b)fluoranthene	Benzo(k)fluoranthene	Benzo(a)pyrene	Benzo(g,h,i)perylene	Chrysene	Dibenzo(a,h)anthracene	Fluoranthene	Fluorene	Indeno(1,2,3-cd)pyrene	1-Methylnaphthalene	2-Methylnaphthalene	Naphthalene	Phenanthrene	Pyrene
	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L
<b>NR 140 ES--&gt;</b>	-	-	<b>3,000</b>	-	<b>0.2</b>	-	<b>0.2</b>	-	<b>0.2</b>	-	<b>400</b>	<b>400</b>	-	-	-	<b>40</b>	-	<b>250</b>
MW-1	<0.40	<0.64	<0.030	<0.033	<0.056	<0.050	<0.023	<0.11	<0.029	<0.050	<0.077	<0.078	<0.039	<0.51	<0.96	<0.38	<0.078	<0.061
MW-2	<0.40	<0.64	<0.030	<0.033	<0.056	<0.050	<0.023	<0.11	<0.029	<0.050	<0.077	<0.078	<0.039	<0.51	<0.96	<0.38	<0.078	<0.061
MW-3	0.63	<0.64	0.21	1.6	<0.056	<0.050	<0.023	<0.11	0.11	<0.050	2.2	4.2	<0.039	40	65	<b>60</b>	0.920	2.1
MW-4R	<0.40	<0.64	<0.030	<0.033	<0.056	<0.050	<0.023	<0.11	<0.029	<0.050	<0.077	<0.078	<0.039	<0.51	<0.96	<0.38	<0.078	<0.061
MW-5	<0.41	<0.66	<0.031	<0.034	<0.058	<0.052	<0.024	<0.11	<0.030	<0.052	<0.079	<0.080	<0.040	<0.53	<0.99	<0.39	<0.80	<0.063
MW-6	<0.40	<0.65	<0.030	<0.033	<0.057	<0.050	<0.023	<0.11	<0.029	<0.050	<0.078	<0.079	<0.039	<0.52	<0.97	<0.38	<0.079	<0.062
MW-7	<0.40	<0.64	<0.030	0.096	0.11	0.052	0.11	<0.11	0.071	<0.050	0.15	<0.078	0.098	<0.51	<0.96	<0.38	<0.078	<0.061
AS-1	<0.40	<0.64	<0.030	<0.033	<0.056	<0.050	<0.023	<0.11	<0.029	<0.050	<0.077	<0.078	<0.039	<0.51	<0.96	<0.38	<0.078	<0.061
PZ-1	<1.3	<2.1	<0.10	<0.11	<0.19	<0.17	<0.077	<0.37	<0.097	<0.17	<0.26	<0.26	<0.13	<1.7	<3.2	<1.3	<0.26	<0.20

**NOTES:**  
< ..... = not detected at or above the indicated method detection limit  
µg/L ..... = micrograms per Liter (equivalent to part per billion)  
NR 140 ES ..... = Rev. 03/00 Wisconsin Adm. Code Chap. NR 140 Enforcement Standard  
**bold type** ..... = The indicated concentration exceeds the NR 140 ES.

**Table 3**  
**Groundwater Analytical Results**  
Former Amoco Bulk Plant No. 007135  
212 Market Street  
Warren, WI  
Delta Project No. 29079

MW-3															
Parameter/ Date Sampled	Analytical Parameters									Biodegradation Phase I Parameters					
	Benzene µg/L	Toluene µg/L	Ethyl- benzene µg/L	Xylenes µg/L	Total TMB µg/L	MTBE µg/L	GRO µg/L	DRO µg/L	Lead µg/L	DO ppm	REDOX milli Volts	Temp °C	Conductivity µmhos/cm	pH	Soluble Iron ppm
NR 140 ES	5	1000	700	10000	480	60			15						
05/20/94	630	7900	1900	6700	2100	ND	43000	3500	ND	1.0	NM	NM	500	6.9	>10
11/21/94	580	8000	26000	7900	1340	ND	27000	3100	NS	0.5	NM	11.0	1080	NM	>10
03/28/95	240	3600	1200	4000	870	ND	11000	1600 LB	ND	2.0	NM	10.0	600	7.5	>10
05/31/95	420	7800	2100	7600	1370	<80	24000	2800 LB	130	1.0	NM	13.0	0.2	7.2	10.0
09/20/95	580	8600	2300	7900	1290	<80	28000	3100	140	2.0	144	12.2	740	6.7	>10
01/09/96	420	6200	2300	7400	1540	130	22000	1500	NA	2.4	<.089	8.4	393	6.4	>10
06/17/96	230	4300	1600	5300	1250	<200	21000	5000	NA	2.4	<.027	11.6	492	6.5	0.0
12/29/97	FP	FP	FP	FP	FP	FP	FP	FP	FP	NS	NS	NS	NS	NS	NS
10/27/98	FP	FP	FP	FP	FP	FP	FP	FP	FP	NS	NS	NS	NS	NS	NS
05/12/99	168	8000	2820	12920	3305	<30	44800	9900	NS	0.2	-142	12.0	100	7.40	>10
08/03/99	108	4620	1710	7110	1994	<30	25200	21600	NS	0.2	-135	16.0	100	7.20	>10
12/14/99	FP	FP	FP	FP	FP	FP	FP	FP	FP	NM	NM	NM	NM	NM	NM
06/13/00	<2.6	710	300	1900	640	<3.2	6300	NA	NA	NM	NM	NM	NM	NM	NM
09/26/00	190	5500	1500	9600	1760	<8.0	29000	16000	31	0.3	-213	NM	NM	NM	10+
12/28/00	55	1500	1200	4400	1220	<8.0	20000	29000	19	0.3	-193	NM	NM	NM	10+

MW-4															
Parameter/ Date Sampled	Analytical Parameters									Biodegradation Phase I Parameters					
	Benzene µg/L	Toluene µg/L	Ethyl- benzene µg/L	Xylenes µg/L	Total TMB µg/L	MTBE µg/L	GRO µg/L	DRO µg/L	Lead µg/L	DO ppm	REDOX milli Volts	Temp °C	Conductivity µmhos/cm	pH	Soluble Iron ppm
NR 140 ES	5	1000	700	10000	480	60			15						
05/20/94	NS	NS	NS	NS	NS	NS	NS	NS	ND	NM	NM	NM	NM	NM	NM
11/21/94	2.6	0.7	NS	NS	NS	NS	NS	NS	NS	1.0	NM	13.0	540	NM	7.0
03/28/95	6.8	ND	ND	ND	ND	ND	ND	ND	ND	2.0	NM	10.0	500	7.70	0.9
05/31/95	<1.0	<1.0	<1.0	<2.0	<1.0	<4.0	<50	<100	<3.0	5.0	NM	14.0	300	7.30	0.2
09/20/95	Well Destroyed														

**Table 3**  
**Groundwater Analytical Results**  
Former Amoco Bulk Plant No. 007135  
212 Market Street  
Warren, WI  
Delta Project No. 29079

MW-1															
Parameter/ Date Sampled	Analytical Parameters									Biodegradation Phase I Parameters					
	Benzene µg/L	Toluene µg/L	Ethyl- benzene µg/L	Xylenes µg/L	Total TMB µg/L	MTBE µg/L	GRO µg/L	DRO µg/L	Lead µg/L	DO ppm	REDOX milli Volts	Temp °C	Conductivity µmhos/cm	pH	Soluble Iron ppm
<i>NR 140 ES</i>	<i>5</i>	<i>1000</i>	<i>700</i>	<i>10000</i>	<i>480</i>	<i>60</i>			<i>15</i>						
05/20/94	ND	ND	ND	ND	ND	ND	ND	ND	ND	4.0	NM	NM	400	7.4	0.02
11/21/94	ND	ND	ND	ND	ND	ND	ND	120	NS	1.0	NM	7	490	NM	0.4
03/28/95	ND	ND	ND	ND	ND	ND	ND	ND	ND	8.0	NM	9	300	7.7	0.1
05/31/95	<1.0	<1.0	<1.0	<2.0	<1.0	<4.0	<50	<100	<3.0	6.0	NM	13	400	7.7	0.3
09/20/95	<1.0	<1.0	1.3	<2.0	<1.0	<4.0	<50	<100	<3.0	5.9	129	12.5	670	6.8	0.3
01/09/96	<1.0	<1.0	<1.0	<2.0	<1.0	6.9	<50	<100	NA	7.2	125	7.9	322	6.5	0
06/17/96	<2.0	<2.0	<2.0	<4.0	<2.0	<2.0	<100	200	NA	8.3	110	11.6	1008	6.2	0
12/29/97	<1	<1	<1	<2	<1	<4	<100	<100	NS	7.1	248	10.4	431	6.61	<1
05/12/99	<0.2	<0.5	<0.5	<1.0	<0.5	<0.3	<50	179	NS	1.1	084	11.0	200	7.90	0.1
08/03/99	<0.15	<0.4	<0.5	<0.4	<0.4	<0.3	<50	488	NS	0.9	071	14.0	100	7.70	0.2
12/14/99	<0.15	<0.4	<0.5	<0.4	<0.4	<0.3	<50	208	NS	6.0	147	10.6	315	7.50	0.1
09/26/00	NS	NS	NS	NS	NS	NS	NS	NS	NS	NM	NM	NM	NM	NM	NM
12/28/00	NS	NS	NS	NS	NS	NS	NS	NS	NS	NM	NM	NM	NM	NM	NM

**Table 3**  
**Groundwater Analytical Results**  
Former Amoco Bulk Plant No. 007135  
212 Market Street  
Warren, WI  
Delta Project No. 29079

Analytical Parameters										Biodegradation Phase I Parameters					
Parameter/ Date Sampled	Benzene µg/L	Toluene µg/L	Ethyl- benzene µg/L	Xylenes µg/L	Total TMB µg/L	MTBE µg/L	GRO µg/L	DRO µg/L	Lead µg/L	DO ppm	REDOX milli Volts	Temp °C	Conductivity µmhos/cm	pH	Soluble Iron ppm
<i>NR 140 ES</i>	<i>5</i>	<i>1000</i>	<i>700</i>	<i>10000</i>	<i>480</i>	<i>60</i>			<i>15</i>						
05/20/94	ND	ND	ND	ND	ND	ND	ND	120	ND	3.0	NM	NM	300	7.0	3.0
11/21/94	ND	ND	3.5	ND	2.8	ND	140	420	NS	0.5	NM	9.0	670	NM	0.4
03/28/95	ND	ND	ND	12.0	3.9	ND	170	700	ND	2.0	NM	9.0	500	7.7	5.0
05/31/95	<1.0	<1.0	12.0	19.0	47.0	<4.0	450 LB	720	<3.0	4.0	NM	14.0	0.4	7.2	5.0
09/20/95	<1.0	<1.0	4.1	4.7	3.7	<4.0	130	330	<3.0	2.1	140	12.1	513	6.7	0.6
01/09/96	<1.0	<1.0	<1.0	<2.0	<1.0	<4.0	<50	3900	NA	1.2	077	9.0	560	6.5	0.2
06/17/96	<2.0	<2.0	<2.0	<4.0	<2.0	<2.0	<100	380	NA	3.6	173	11.2	578	6.1	0.0
12/29/97	<1	<1	<1	<2	1.1	<4	120	380	NA	3.1	105	10.5	810	6.40	<1
10/27/98	<1	<1	<1	<2	1.1	<4	100	<110	NA	2.9	168	13.5	700	7.50	1.0
05/12/99	<0.2	<0.5	<0.5	<1.0	<0.5	<0.3	<50	<440	NA	1.3	101	10.0	200	7.80	2.0
08/03/99	<0.15	<0.4	<0.5	<0.4	0.2	<0.3	53.9	233	NA	0.8	69	15.0	200	7.80	2.0
12/14/99	<0.15	<0.3	<0.5	0.2	<0.4	<0.3	62.2	480	NA	3.8	-054	10.2	650	7.20	1.0
06/13/00	<0.13	<0.20	<0.22	<0.23	<0.29	<0.16	<50	NA	NA	5.4	172	NM	NM	NM	NM
09/26/00	<0.13	<0.20	<0.22	<0.23	<0.29	<0.16	<50	<100	NA	2.2	190	NM	NM	NM	0.2
12/28/00	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS

**Table 3**  
**Groundwater Analytical Results**  
Former Amoco Bulk Plant No. 007135  
212 Market Street  
Warren, WI  
Delta Project No. 29079

Analytical Parameters										Biodegradation Phase I Parameters					
Parameter/ Date Sampled	Benzene µg/L	Toluene µg/L	Ethyl- benzene µg/L	Xylenes µg/L	Total TMB µg/L	MTBE µg/L	GRO µg/L	DRO µg/L	Lead µg/L	DO ppm	REDOX milli Volts	Temp °C	Conductivity µmhos/cm	pH	Soluble Iron ppm
<i>NR 140 ES</i>	<i>5</i>	<i>1000</i>	<i>700</i>	<i>10000</i>	<i>480</i>	<i>60</i>			<i>15</i>						
12/29/97	2.8	3.0	2.6	8.2	5.5	<4	<100	<100	NA	5.1	195	10.1	342	6.51	<1
10/27/98	<1	<1	<1	<2	<1	<4	110	<100	NA	4.4	100	14.0	110	8.10	1.0
05/12/99	<0.2	<0.5	<0.5	<1.0	<0.5	<0.3	<50	<100	NA	0.8	061	11.0	200	7.60	0.2
08/03/99	<0.15	<0.4	<0.5	<0.4	<0.4	<0.3	<50	120	NA	0.6	042	16.0	200	7.80	0.2
12/14/99	<0.15	<0.4	<0.5	<0.4	<0.4	<0.3	<50	101	NA	4.8	112	11.1	271	7.60	0.1
06/13/00	<0.13	<0.20	<0.22	<0.23	<0.29	<0.16	<50	NA	NA	7.3	203	NM	NM	NM	NM
09/26/00	<0.13	<0.20	<0.22	<0.23	<0.29	<0.16	<50	<100	NA	2.8	174	NM	NM	NM	0.1
12/28/00	<0.13	<0.20	<0.22	<0.23	<0.29	<0.16	<50	NA	NA	4.8	50	NM	NM	NM	0.2

**Table 3**  
**Groundwater Analytical Results**  
Former Amoco Bulk Plant No. 007135  
212 Market Street  
Warren, WI  
Delta Project No. 29079

MW-5															
Analytical Parameters										Biodegradation Phase I Parameters					
Parameter/ Date Sampled	Benzene µg/L	Toluene µg/L	Ethyl- benzene µg/L	Xylenes µg/L	Total TMB µg/L	MTBE µg/L	GRO µg/L	DRO µg/L	Lead µg/L	DO ppm	REDOX milli Volts	Temp °C	Conductivity µmhos/cm	pH	Soluble Iron ppm
NR 140 ES	5	1000	700	10000	480	60			15						
05/20/94	NS	NS	NS	NS	NS	NS	NS	NS	ND	NM	NM	NM	NM	NM	NM
11/21/94	ND	ND	ND	ND	ND	ND	61	120	NS	2.0	NM	12.0	1570	NM	0.3
03/28/95	ND	1	ND	ND	ND	ND	ND	ND	ND	6.0	NM	8.0	1400	7.60	0.3
05/31/95	<1.0	1	<1.0	<2.0	<1.0	<4.0	<50	<100	<3.0	6.0	NM	13.0	900	7.30	0.2
09/20/95	5.1	160	39	130	15.5	<4.0	470	170	<3.0	6.9	087	12.6	1335	8.80	0.2
01/09/96	<1.0	2	<1.0	<2.0	1.5	<4.0	<50	<110	NA	4.5	016	9.2	1173	6.80	0.1
06/17/96	<2.0	<2.0	<2.0	<4.0	5.0	<2.0	120	250	NA	6.8	036	11.7	931	6.30	0.0
12/29/97	<1	1.8	<1	3.0	2.2	<4	<100	<100	NA	5.2	181	7.6	1239	6.40	<1
10/27/98	<1	<1	<1	<2	<1	<4	<100	<100	NA	6.0	157	14.0	850	7.80	<1
05/12/99	<0.2	1.9	<0.5	<0.1	1.0	1.1	69	154	NA	0.7	055	10.0	200	7.60	0.2
08/03/99	<0.15	1.09	<0.5	<0.4	0.47	<0.3	<50	144	NA	0.6	038	15.0	100	7.80	0.2
12/14/99	<0.15	<0.4	<0.5	<0.4	<0.4	<0.3	<50	141	NA	5.5	088	10.7	770	7.10	0.1
06/13/00	<0.13	<0.20	<0.22	<0.23	<0.29	<0.16	<50	NA	NA	7.3	164	NM	NM	NM	NM
09/26/00	<0.13	<0.20	<0.22	<0.23	<0.29	<0.16	<50	<100	NA	3.8	099	NM	NM	NM	0.3
12/28/00	<0.13	<0.20	<0.22	<0.23	<0.29	<0.16	<50	NA	NA	5.9	089	NM	NM	NM	0.2
12/28/00 D	<0.13	<0.27	<0.22	0.38	0.25	<0.16	<50	NA	NA						

**Table 3**  
**Groundwater Analytical Results**  
Former Amoco Bulk Plant No. 007135  
212 Market Street  
Warren, WI  
Delta Project No. 29079

MW-6															
Parameter/ Date Sampled	Analytical Parameters									Biodegradation Phase I Parameters					
	Benzene µg/L	Toluene µg/L	Ethyl- benzene µg/L	Xylenes µg/L	Total TMB µg/L	MTBE µg/L	GRO µg/L	DRO µg/L	Lead µg/L	DO ppm	REDOX milli Volts	Temp °C	Conductivity µmhos/cm	pH	Soluble Iron ppm
<i>NR 140 ES</i>	<i>5</i>	<i>1000</i>	<i>700</i>	<i>10000</i>	<i>480</i>	<i>60</i>			<i>15</i>						
12/29/97	<1	<1	<1	<2	<1	<4	<100	<100	NS	7.0	174	9.0	490	6.47	<1
10/27/98	<1	<1	<1	<2	<1	<4	<100	<100	NS	7.0	234	13.5	250	7.80	<1
05/12/99	<0.2	<0.5	<0.5	<1.0	<0.5	<0.3	<50	<100	NS	1.2	060	11.0	100	7.80	0.1
08/03/99	<0.15	<0.4	<0.5	<0.4	<0.4	<0.3	<50	<100	NS	0.7	049	15.0	100	7.70	0.2
12/14/99	<0.15	<0.4	<0.5	<0.4	<0.4	<0.3	<50	<100	NS	6.5	130	11.4	405	6.90	0.1
06/13/00	<0.13	<0.20	<0.22	<0.23	<0.29	<0.16	<50	NA	NA	9.0	117	NM	NM	NM	NM
09/26/00	<0.13	<0.20	<0.22	<0.23	<0.29	<0.16	<50	<100	NA	4.6	145	NM	NM	NM	0.4
12/28/00	NS	NS	NS	NS	NS	NS	NS	NS	NS	NM	NM	NM	NM	NM	NM

MW-7															
Parameter/ Date Sampled	Analytical Parameters									Biodegradation Phase I Parameters					
	Benzene µg/L	Toluene µg/L	Ethyl- benzene µg/L	Xylenes µg/L	Total TMB µg/L	MTBE µg/L	GRO µg/L	DRO µg/L	Lead µg/L	DO ppm	REDOX milli Volts	Temp °C	Conductivity µmhos/cm	pH	Soluble Iron ppm
<i>NR 140 ES</i>	<i>5</i>	<i>1000</i>	<i>700</i>	<i>10000</i>	<i>480</i>	<i>60</i>			<i>15</i>						
11/21/00	0.23	0.27	<0.22	0.39	0.36	<0.16	<50	NA	NA	NM	NM	NM	NM	NM	NM
12/28/00	<0.13	<0.20	<0.22	<0.23	<0.29	<0.16	<50	<100	NA	6.9	106	NM	NM	NM	0.3

**Table 3**  
**Groundwater Analytical Results**  
Former Amoco Bulk Plant No. 007135  
212 Market Street  
Warren, WI  
Delta Project No. 29079

AS-1															
Analytical Parameters										Biodegradation Phase I Parameters					
Parameter/ Date Sampled	Benzene µg/L	Toluene µg/L	Ethyl- benzene µg/L	Xylenes µg/L	Total TMB µg/L	MTBE µg/L	GRO µg/L	DRO µg/L	Lead µg/L	DO ppm	REDOX milli Volts	Temp °C	Conductivity µmhos/cm	pH	Soluble Iron ppm
NR 140 ES	5	1000	700	10000	480	60			15						
10/27/98	8.9	34	21	110	31	<4	250	<110	NA	1.2	011	12.6	950	7.70	3.0
05/29/99	1.9	<0.5	4.5	1.4	0.9	<0.3	96	1820	NA	0.4	012	11.0	100	7.40	10.0
08/03/99	115	194	102	120.7	39.1	<0.3	1060	1930	NA	0.2	-017	15.0	100	7.50	2.0
12/14/99	33.3	11	115	69	15.2	<0.3	646	5880	NA	1.5	-141	10.7	610	7.00	8.0
06/13/00	0.4	0.36	0.70	<0.23	<0.29	<0.16	<50	NA	NA	2.6	-018	NM	NM	NM	NM
09/26/00	<0.13	<0.20	<0.22	<0.23	<0.29	<0.16	<50	280	NA	0.6	-182	NM	NM	NM	10+
12/28/00	<0.13	<0.20	<0.22	<0.23	<0.29	<0.16	<50	<100	NA	0.4	-215	NM	NM	NM	10+

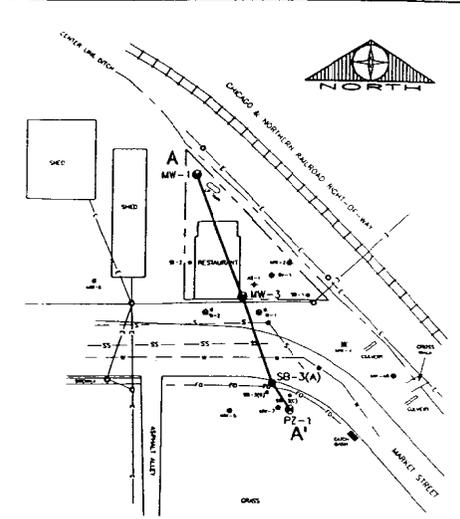
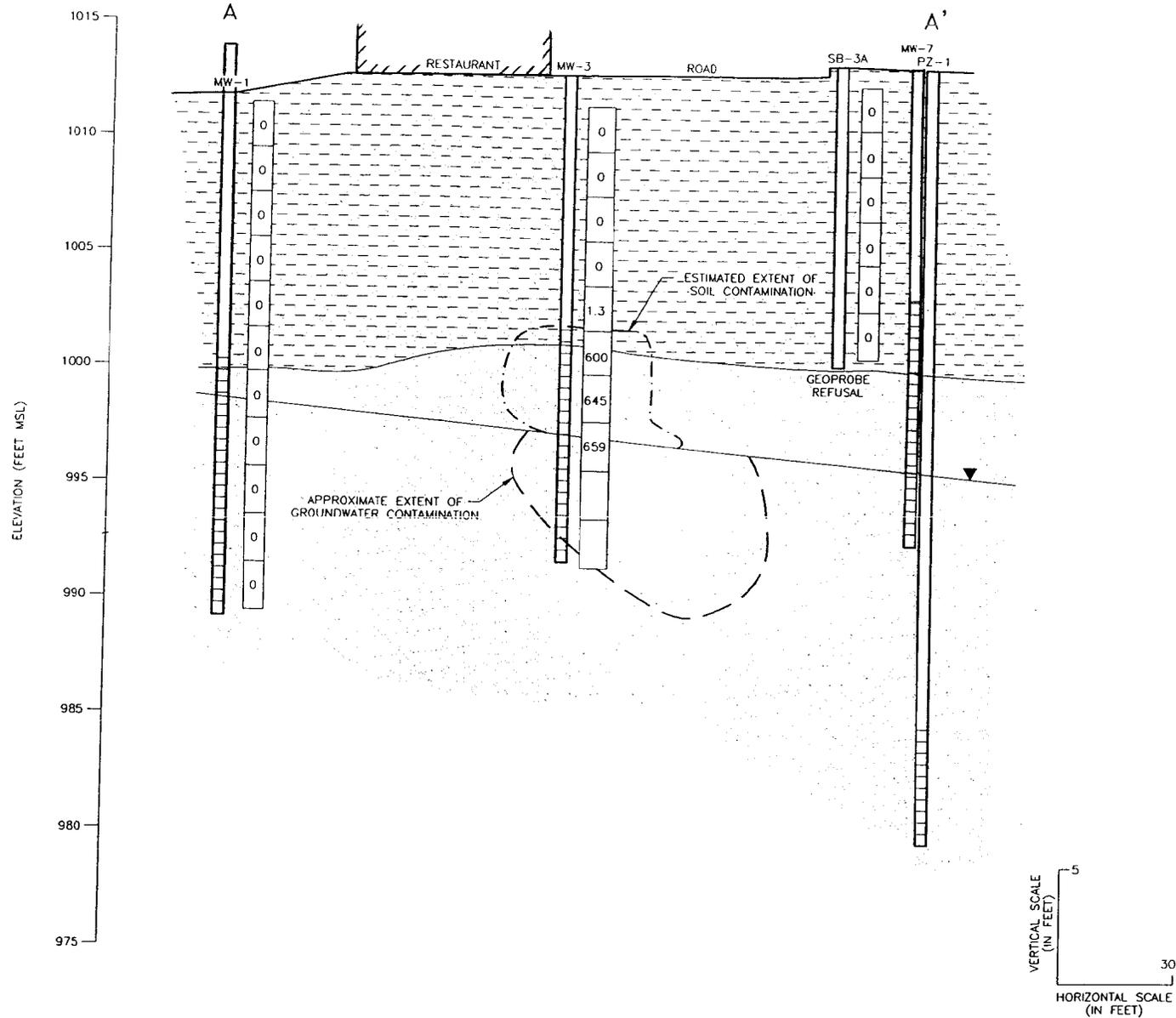
PZ-1															
Analytical Parameters										Biodegradation Phase I Parameters					
Parameter/ Date Sampled	Benzene µg/L	Toluene µg/L	Ethyl- benzene µg/L	Xylenes µg/L	Total TMB µg/L	MTBE µg/L	GRO µg/L	DRO µg/L	Lead µg/L	DO ppm	REDOX milli Volts	Temp °C	Conductivity µmhos/cm	pH	Soluble Iron ppm
NR 140 ES	5	1000	700	10000	480	60			15						
11/21/00	0.71	0.25	<0.22	<0.23	<0.29	<0.16	<50	NA	NA	NM	NM	NM	NM	NM	NM
12/28/00	<0.13	<0.20	<0.22	<0.23	<0.29	<0.16	<50	140	1.9	2.0	-9	NM	NM	NM	0.0

**Table 3**  
**Groundwater Analytical Results**  
Former Amoco Bulk Plant No. 007135  
212 Market Street  
Warren, WI  
Delta Project No. 29079

W-1															
Analytical Parameters										Biodegradation Phase I Parameters					
Parameter/ Date Sampled	Benzene µg/L	Toluene µg/L	Ethyl- benzene µg/L	Xylenes µg/L	Total TMB µg/L	MTBE µg/L	GRO µg/L	DRO µg/L	Lead µg/L	DO ppm	REDOX milli Volts	Temp °C	Conductivity µmhos/cm	pH	Soluble Iron ppm
<i>NR 140 ES</i>	<i>5</i>	<i>1000</i>	<i>700</i>	<i>10000</i>	<i>480</i>	<i>60</i>			<i>15</i>						
10/27/93	2.40	9.70	3.0	8.90	2.24	NM	40	7.6	NA	NM	NM	NM	NM	NM	NM

W-2															
Analytical Parameters										Biodegradation Phase I Parameters					
Parameter/ Date Sampled	Benzene µg/L	Toluene µg/L	Ethyl- benzene µg/L	Xylenes µg/L	Total TMB µg/L	MTBE µg/L	GRO µg/L	DRO µg/L	Lead µg/L	DO ppm	REDOX milli Volts	Temp °C	Conductivity µmhos/cm	pH	Soluble Iron ppm
<i>NR 140 ES</i>	<i>5</i>	<i>1000</i>	<i>700</i>	<i>10000</i>	<i>480</i>	<i>60</i>			<i>15</i>						
10/27/93	<0.010	<0.010	0.026	0.58	0.78	NM	6.5	2.0	NA	NM	NM	NM	NM	NM	NM

**Notes:**  
µg/L ..... = micrograms/liter  
µmhos/cm ..... = micromhos per centimeter  
°C ..... = degrees Celsius  
D ..... = duplicate  
DO ..... = dissolved oxygen  
DRO ..... = diesel range organics  
GRO ..... = gasoline range organics  
LB ..... = low boiling point hydrocarbons present in sample  
MTBE ..... = methyl tertiary butyl ether  
NA ..... = not analyzed for indicated parameter  
ND ..... = not detected at or above the method detection level  
NM ..... = not measured  
NR 140 ES ..... = Rev. 03/00 Wisconsin Adm. Code Chap. NR 140 Enforcement Standard  
NS ..... = not sampled on indicated date  
ppm ..... = parts per million  
REDOX ..... = reduction/oxidation potential  
TMBs ..... = trimethylbenzenes  
**bold type** ..... = The indicated concentration exceeds the NR 140 ES.



CROSS SECTION LOCATION MAP

LEGEND

- UNCONSOLIDATED SILTY SAND
- LIGHT BROWN SANDSTONE
- MONITORING WELL
- PID READINGS
- POTENTIOMETRIC SURFACE 05/14/01

FIGURE 2  
GEOLOGIC CROSS SECTION A-A'  
FORMER AMOCO PLANT #007135  
212 MARKET STREET  
WARRENS, WISCONSIN

PROJECT NO.: 2907-904	DRAWN BY: DD
PREPARED BY: PA	DATE: 6/19/01
FILE NAME: 29079AA	

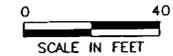
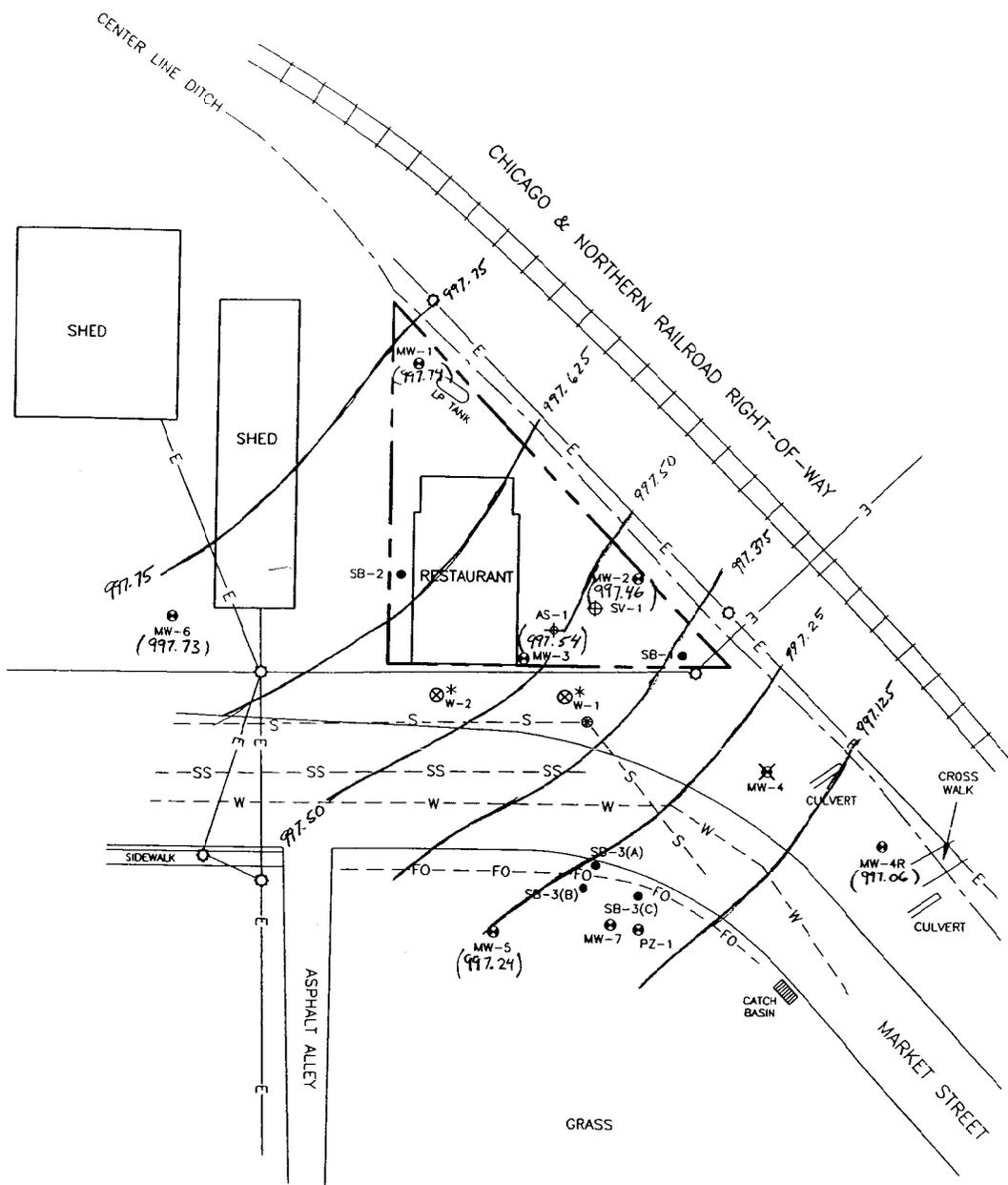




**LEGEND**

- PROPERTY BOUNDARY
- ⊙ MONITORING WELL LOCATION
- ⊗ ABANDONED MONITORING WELL LOCATION
- SOIL BORING LOCATION
- ⊙ MANHOLE
- ⊙ POWER POLE
- W--- UNDERGROUND WATER LINE
- S--- UNDERGROUND STORM SEWER LINE
- SS--- UNDERGROUND SANITARY SEWER LINE
- FO--- UNDERGROUND FIBER OPTIC LINE
- E--- ABOVE GROUND ELECTRIC LINE
- ⊕ SVE POINT LOCATION
- ⊕ AIR SPARGE POINT LOCATION
- ⊗\* APPROXIMATE LOCATION OF ADVENT TEMPORARY WELLS

NOTE: THE LOCATION OF MW-4R IS APPROXIMATE.



**FIGURE 5**  
**GROUNDWATER ELEVATION & CONTOUR MAP**  
 SEPTEMBER 26, 2000  
 FORMER AMOCO PLANT #007135  
 212 MARKET STREET  
 WARRENS, WISCONSIN

PROJECT NO.: 2907-904	DRAWN BY: DD
PREPARED BY: SR	DATE: 2/1/01
FILE NAME: 94829	





**LEGEND**

- PROPERTY BOUNDARY
- ⊙ MONITORING WELL LOCATION
- ⊗ ABANDONED MONITORING WELL LOCATION
- SOIL BORING LOCATION
- MANHOLE
- ⊕ POWER POLE
- - - W - - UNDERGROUND WATER LINE
- - - S - - UNDERGROUND STORM SEWER LINE
- - - SS - - UNDERGROUND SANITARY SEWER LINE
- - - FO - - UNDERGROUND FIBER OPTIC LINE
- - - E - - ABOVE GROUND ELECTRIC LINE
- ⊕ SVE POINT LOCATION
- ⊕ AIR SPARGE POINT LOCATION
- ⊗\* APPROXIMATE LOCATION OF ADVENT TEMPORARY WELLS

NOTE: THE LOCATION OF MW-4R IS APPROXIMATE.

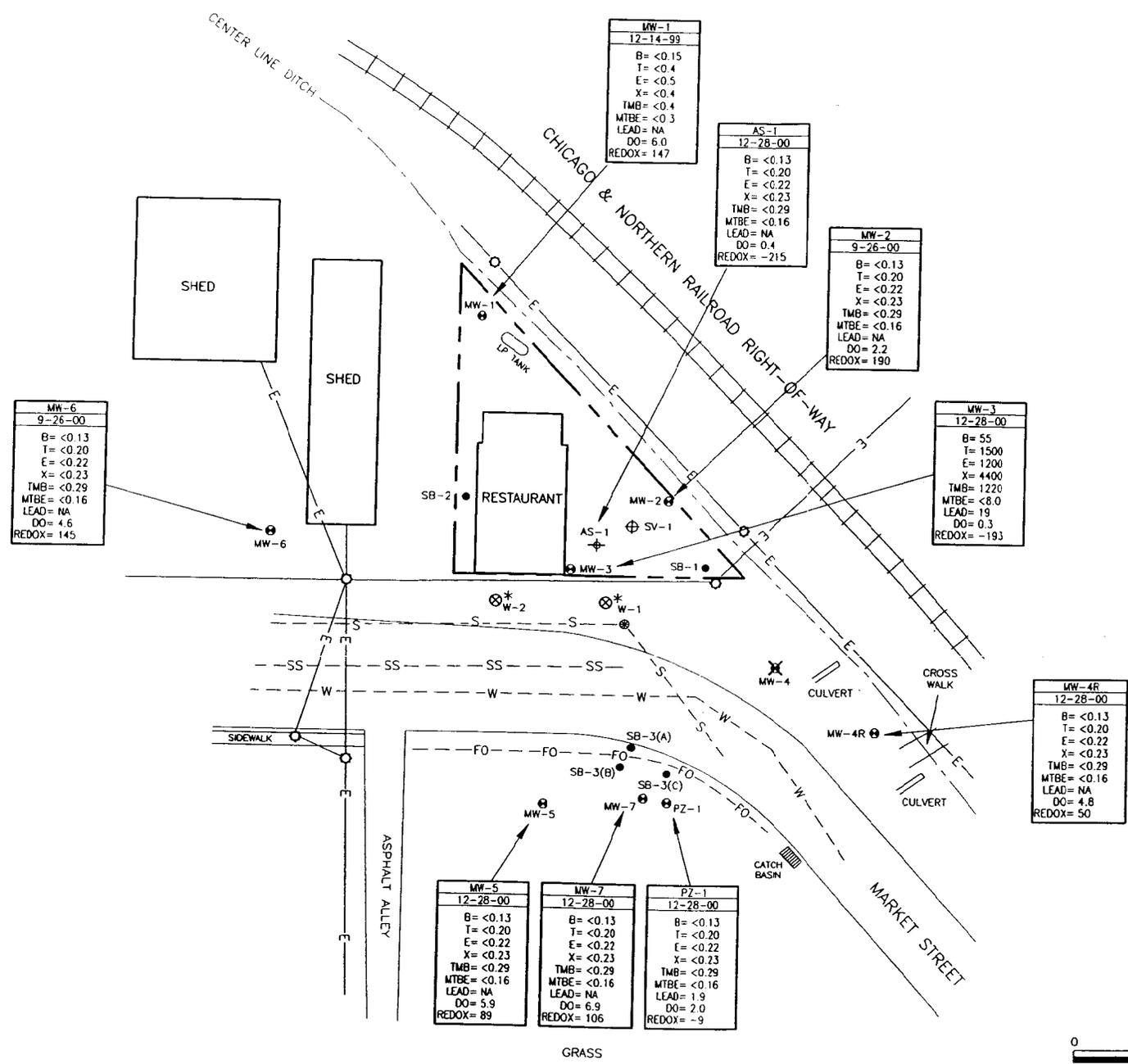
WELL I.D.	SAMPLE LOCATION
DATE	SAMPLE DATE
B =	BENZENE (ug/L)
T =	TOLUENE (ug/L)
E =	ETHYLBENZENE (ug/L)
X =	XYLENES (ug/L)
TMB =	TOTAL TRIMETHYLBENZENES (ug/L)
MTBE =	METHYL TERTIARY BUTYL ETHER (ug/L)
LEAD =	DISSOLVED LEAD (ug/L)
DO =	DISSOLVED OXYGEN (ppm)
REDOX =	REDUCTION/OXIDATION POTENTIAL (mv)

ug/L = MICROGRAMS PER LITER  
 ppm = PARTS PER MILLION  
 mv = MILLIVOLTS

NA = NOT ANALYZED FOR INDICATED PARAMETER

**FIGURE 6**  
**GROUNDWATER**  
**CHEMICAL CONCENTRATION MAP**  
 FORMER AMOCO PLANT #007135  
 212 MARKET STREET  
 WARRENS, WISCONSIN

PROJECT NO: 2907-904	DRAWN BY: DD
PREPARED BY: SR	DATE: 2/20/01
FILE NAME: 94829	





**LEGEND**

- PROPERTY BOUNDARY
- MONITORING WELL LOCATION
- ⊗ ABANDONED MONITORING WELL LOCATION
- SOIL BORING LOCATION
- ⊙ MANHOLE
- POWER POLE
- - W - - UNDERGROUND WATER LINE
- - S - - UNDERGROUND STORM SEWER LINE
- - SS - - UNDERGROUND SANITARY SEWER LINE
- - FO - - UNDERGROUND FIBER OPTIC LINE
- - E - - ABOVE GROUND ELECTRIC LINE
- ⊕ SVE POINT LOCATION
- ⊕\* AIR SPARGE POINT LOCATION
- ⊗\* APPROXIMATE LOCATION OF ADVENT TEMPORARY WELLS

NOTE: THE LOCATION OF MW-4R IS APPROXIMATE.

WELL I.D.	SAMPLE LOCATION
DATE	SAMPLE DATE
B=	BENZENE (ug/L)
T=	TOLUENE (ug/L)
E=	ETHYLBENZENE (ug/L)
X=	XYLENES (ug/L)
TMB=	TOTAL TRIMETHYLBENZENES (ug/L)
MTBE=	METHYL TERTIARY BUTYL ETHER (ug/L)
LEAD=	DISSOLVED LEAD (ug/L)
DO=	DISSOLVED OXYGEN (ppm)
REDOX=	REDUCTION/OXIDATION POTENTIAL (mV)

ug/L = MICROGRAMS PER LITER  
 ppm = PARTS PER MILLION  
 mV = MILLIVOLTS

NA = NOT ANALYZED FOR INDICATED PARAMETER

**FIGURE 2  
 GROUNDWATER  
 CHEMICAL CONCENTRATION MAP**

FORMER AMOCO PLANT #007135  
 212 MARKET STREET  
 WARRENS, WISCONSIN

PROJECT NO.  
2907-904  
 DRAWN BY:  
DD  
 PREPARED BY:  
SR  
 DATE:  
2/20/01  
 FILE NAME:  
94829

