

**GIS REGISTRY INFORMATION**

**SITE NAME:** AMOCO STATION #10093

**BRRTS #:** 03-05-001665

**CLOSURE DATE:** 05/09/2002

**STREET ADDRESS:** 130 S. TAYLOR STREET

**CITY:** HOWARD

**SOURCE PROPERTY GPS COORDINATES** (meters in WTM91 projection): X= 673018 Y= 452972

**OFF-SOURCE CONTAMINATION (>ES):**  Yes  No

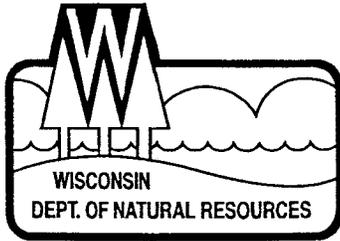
**IF YES, STREET ADDRESS 1:** \_\_\_\_\_

**GPS COORDINATES** (meters in WTM91 projection): X= \_\_\_\_\_ Y= \_\_\_\_\_

**CONTAMINATION IN RIGHT OF WAY:**  Yes  No

**DOCUMENTS NEEDED:**

- |   |                                     |
|---|-------------------------------------|
| <b>Closure Letter, and any conditional closure letter issued</b>  | <input checked="" type="checkbox"/> |
| <b>Copy of most recent deed, including legal description, for all affected properties</b>   | <input checked="" type="checkbox"/> |
| <b>Certified survey map or relevant portion of the recorded plat map (if referenced in the legal description) for all affected properties</b>   | <input checked="" type="checkbox"/> |
| <b>County Parcel ID number, if used for county, for all affected properties</b>   | <input type="checkbox"/>            |
| <b>Location Map</b> which outlines all properties within contaminated site boundaries in sufficient detail to permit the parcels to be located easily (8.5x14" if paper copy)   | <input checked="" type="checkbox"/> |
| <b>Detailed Site Map(s) for all affected properties</b> , showing buildings, roads, property boundaries, contaminant sources, utility lines, monitoring wells and potable wells. (8.5x14", if paper copy)   | <input checked="" type="checkbox"/> |
| <b>Tables of Latest Groundwater Analytical Results (no shading or cross-hatching)</b>   | <input checked="" type="checkbox"/> |
| <b>Isoconcentration map(s), if available from site investigation (SI)</b> (8.5x14" if paper copy). The isoconcentration map should have flow direction and extent of contamination defined. <b>If not available, include the following 2 types of maps:</b> | <input checked="" type="checkbox"/> |
| <b>Latest groundwater flow/monitoring well location map</b>   | <input checked="" type="checkbox"/> |
| <b>Latest extent of contaminant plume map</b>   | <input checked="" type="checkbox"/> |
| <b>Geologic cross-sections, if available from SI.</b> (8.5x14' if paper copy)   | <input type="checkbox"/>            |
| <b>RP certified statement that legal descriptions are complete and accurate</b>   | <input checked="" type="checkbox"/> |
| <b>Copies of off-source notification letters (if applicable)</b>  | <input type="checkbox"/>            |
| <b>Letter informing ROW owner of residual contamination (if applicable)</b>   | <input checked="" type="checkbox"/> |
| <b>Copy of (soil or land use) deed restriction(s) or deed notice if any required as a condition of closure.</b>   | <input type="checkbox"/>            |



State of Wisconsin \ DEPARTMENT OF NATURAL RESOURCES

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

Northeast Region Headquarters  
1125 N. Military Ave., P.O. Box 10448  
Green Bay, Wisconsin 54307-0448  
Telephone 920-492-5800  
FAX 920-492-5913  
TTY 920-492-5912

May 10, 2002

Mr. Raymond Stoelting  
BP Products North America, Inc.  
P.O. Box 642  
Chanhausen, MN 55317-9998

SUBJECT: Final Case Closure By Closure Committee With Conditions Met for the  
Amoco Station # 10093, 130 South Taylor Street, Green Bay, WI  
WDNR BRRTS # 03-05-001665

Dear Mr. Stoelting:

On November 20, 1999, your site as described above was reviewed for closure by the Northeast 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 December 2, 1999, you were notified that the Closure Committee had granted conditional closure to this case.

On May 9, 2002, the Department received final correspondence indicating that you have complied with the conditions of closure (GIS registration & monitoring well abandonment). 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 in Green Bay at (920) 492-5921.

Sincerely,

A handwritten signature in cursive script that reads "Keld Lauridsen". The signature is written in black ink and is positioned above the typed name.

Keld B. Lauridsen  
Hydrogeologist  
Remediation & Redevelopment Program

cc: Kurt McClung, Delta Environmental Consultants, Inc.,  
17500 W. Liberty Lane, Suite A, New Berlin, WI 53146-2109  
Mr. & Mrs. Eben Goethe,  
614 St. Jude Street, Green Bay, WI 54303



1467790

5033

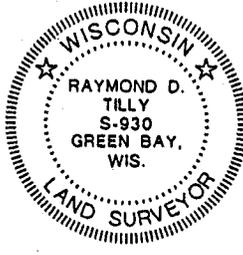
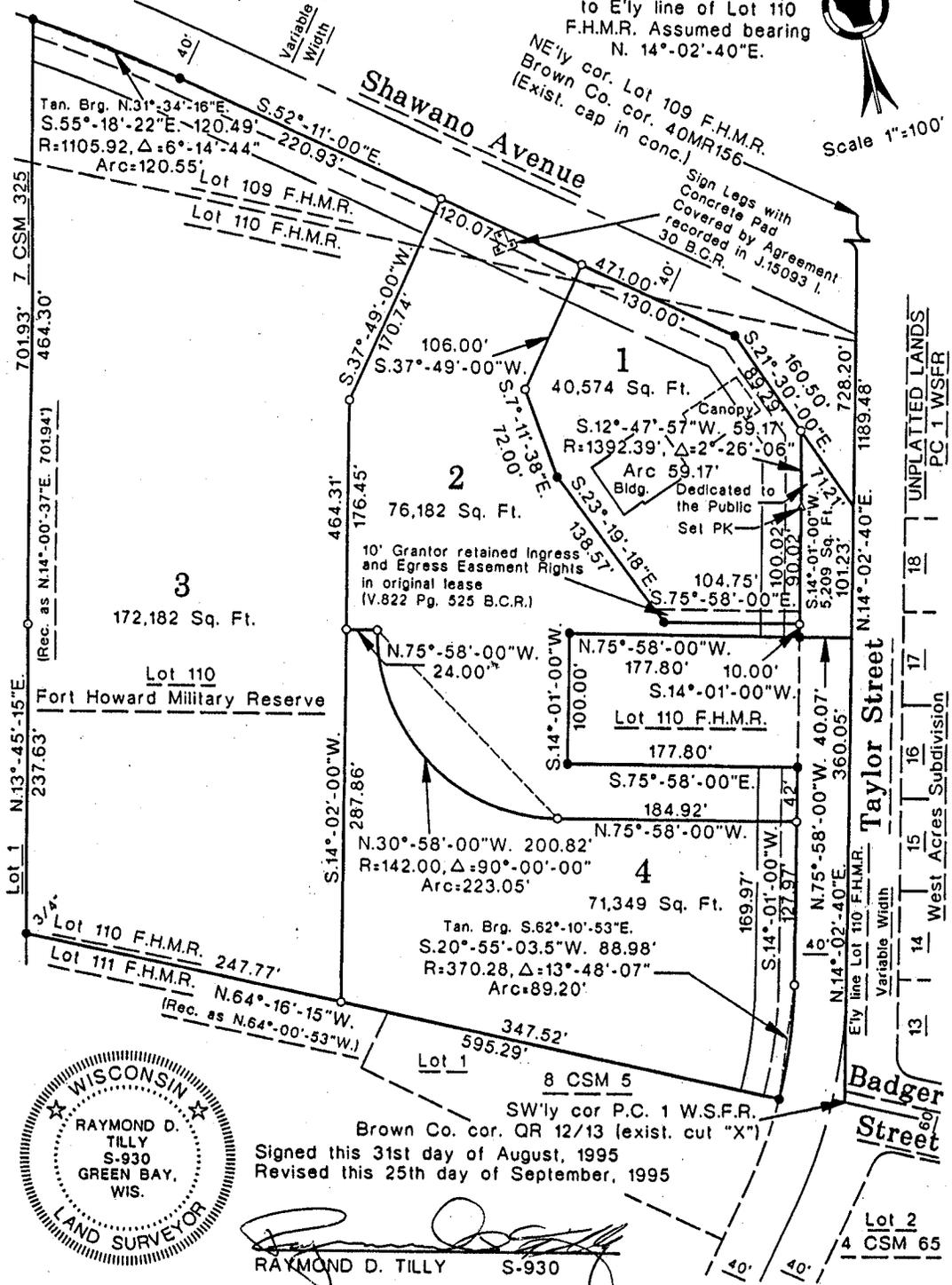
# CERTIFIED SURVEY MAP

Part of Lots 109 and 110, Fort Howard Military Reserve, Village of Howard, Brown County, Wisconsin Sheet 1 of 3

### LEGEND:

- o - 1"x24" Iron Pipe Stakes weighing at least 1.13 pounds per lineal foot
- - Existing 1" Iron Pipe Stakes (or as shown)
- - - 30' Building Setback Line
- - - 12' Utility Easement

Plat bearings referenced to E'ly line of Lot 110 F.H.M.R. Assumed bearing N. 14°-02'-40"E.



Signed this 31st day of August, 1995  
Revised this 25th day of September, 1995

*Raymond D. Tilly*  
RAYMOND D. TILLY S-930

NOTES: The land on all lot lines of all lots shall be graded by the subdivider and maintained by the abutting property owners to provide for adequate drainage of surface water. Owners of all lots shall grade areas abutting streets to the established sidewalk grade elevation and maintain the grade elevation for future sidewalks.

**SURVEYOR'S CERTIFICATE**

I, Raymond D. Tilly, Registered Land Surveyor hereby certify:

That I have surveyed, divided and mapped part of Lots 109 and 110 Fort Howard Military Reserve, Village of Howard, Brown County, Wisconsin described by:

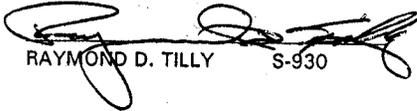
Commencing at the southwesterly corner of Private Claim 1, West Side of Fox River; thence North 14 degrees 02 minutes 40 seconds East along the easterly line of the said Lot 110 Fort Howard Military Reserve 360.05 feet; thence North 75 degrees 58 minutes 00 seconds West 40.07 feet to a point on the westerly right-of-way line of Taylor Street, said point being the point of beginning; thence continuing North 75 degrees 58 minutes 00 seconds West 177.80 feet; thence South 14 degrees 01 minutes 00 seconds West 100.00 feet; thence South 75 degrees 58 minutes 00 seconds East 177.80 feet to the westerly right-of-way line of Taylor Street; thence South 14 degrees 01 minutes 00 seconds West along the said westerly right-of-way line 169.97 feet; thence continuing along the said westerly right-of-way line along a tangential curve concave westerly chord South 20 degrees 55 minutes 03.5 seconds West 88.98 feet, radius 370.28 feet, central angle 13 degrees 48 minutes 07 seconds, arc 89.20 feet to the southerly line of the said Lot 110 Fort Howard Military Reserve; thence North 64 degrees 16 minutes 15 seconds West along the said southerly line 595.29 feet to the easterly line of Lot 1 Volume 7 Certified Survey Maps Page 325 Brown County Records; thence North 13 degrees 45 minutes 15 seconds East along the said easterly line 701.93 feet to the southwesterly right-of-way line of Shawano Avenue; thence along the said southwesterly right-of-way line along a curve concave southwesterly chord South 55 degrees 18 minutes 22 seconds East 120.49 feet, radius 1105.92 feet, central angle 6 degrees 14 minutes 44 seconds, arc 120.55 feet; thence continuing along the said southwesterly right-of-way line South 52 degrees 11 minutes 00 seconds East 471.00 feet; thence continuing along the said southwesterly right-of-way line and the extension thereof South 21 degrees 30 minutes 00 seconds East 160.50 feet to the easterly line of the said Lot 110 Fort Howard Military Reserve; thence South 14 degrees 02 minutes 40 seconds West along the said easterly line 101.23 feet; thence North 75 degrees 58 minutes 00 seconds West 40.07 feet to the point of beginning. Subject to the retained Ingress and Egress Easement recorded in Volume 822 Page 525 Brown County Records and the Agreement recorded in Jacket 15093 Image 30 Brown County Records.

That such plat is a correct representation of the boundaries of the land surveyed and the division thereof made.

That I have made such survey, land division and plat by the direction of Eben F. Goethe, owner.

That I have fully complied with the provisions of Chapter 236, Section 236.34 of the Wisconsin Statutes, the Village of Howard and County of Brown Ordinances.

Signed this 31st day of August, 1995.

  
RAYMOND D. TILLY S-930



**OWNERS CERTIFICATE OF DEDICATION**

As owner, I hereby certify that I caused the land described on this map to be surveyed, divided, mapped and dedicated as represented on this map. I also further certify that this map is required by S. 236.10 or 236.12 of the Wisconsin Statutes to be submitted to the following for approval or objection:

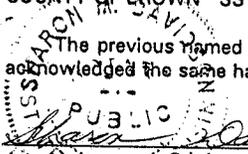
- 1. Village of Howard
- 2. Brown County Planning Commission

WITNESS the hand and seal of said owner this 31 day of Aug, 1995

  
 EBEN F. GOETHE

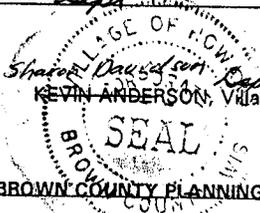
STATE OF WISCONSIN  
COUNTY OF BROWN SS

The previous named Eben F. Goethe to me known to be the person who executed the foregoing instrument and acknowledged the same has personally come before me this 31 day of Aug, 1995.

  
 Notary Public, Brown County, Wisconsin  
 My commission expires 1-10-97

**VILLAGE OF HOWARD CERTIFICATE**

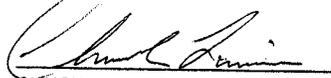
Approved by the Village Board of the Village of Howard, Brown County, Wisconsin this 25 day of Sept, 1995.

  
 Kevin Anderson, Village Clerk 

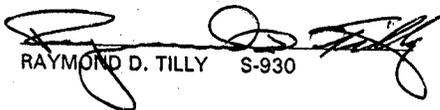
**BROWN COUNTY PLANNING COMMISSION CERTIFICATE**

Approved for the Brown County Planning Commission this 26th day of September, 1995.



  
 CHUCK LAMINE  
 Senior County Planner

Signed this 31st day of August, 1995.

  
 RAYMOND D. TILLY S-930



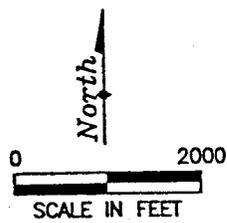
REGISTER'S OFFICE  
 Brown Co. Wis.  
 Received for record this 26th  
 day of Sept A.D. 1995  
 at 9:44 o'clock A. M.  
 and recorded in Vol. 32 of  
 Certified Survey Maps on Page 305

  
 Register of Deeds



QUADRANGLE LOCATION

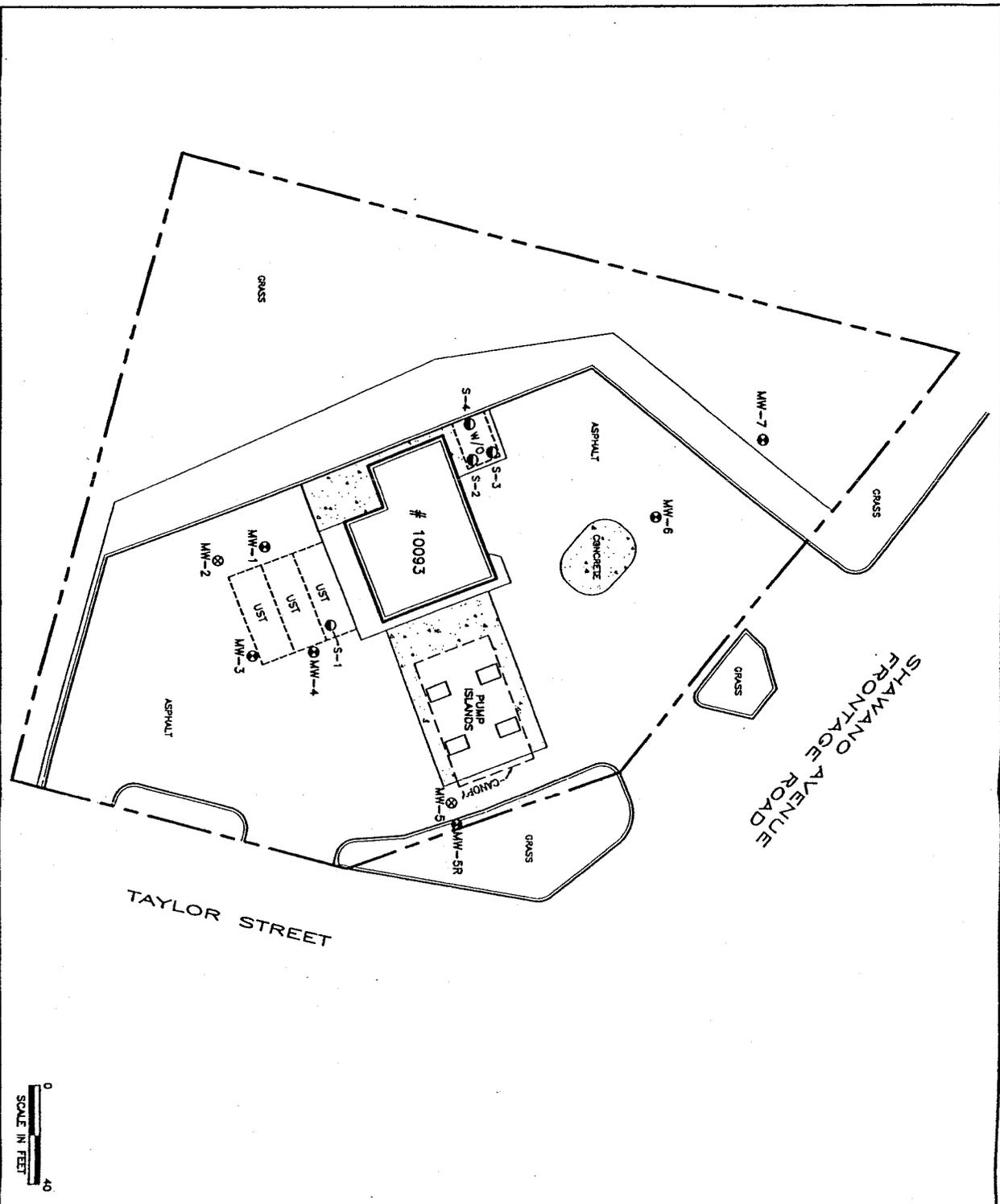
GREEN BAY WEST QUADRANGLE  
 WISCONSIN-BROWN COUNTY  
 7.5 MINUTE SERIES (TOPOGRAPHIC)



**FIGURE 1**  
**SITE LOCATION MAP**  
 SERVICE STATION No. 10093  
 130 SOUTH TAYLOR STREET  
 GREEN BAY, WISCONSIN

|                         |                    |
|-------------------------|--------------------|
| PROJECT NO.<br>1096-832 | PREPARED BY<br>EKO |
| DATE<br>6/11/96         | REVIEWED BY        |





**LEGEND**

- PROPERTY BOUNDARY
- S-1 ● SUMP LOCATIONS
- MW-1 ● MONITORING WELL LOCATION
- MW-2 ● ABANDONED MONITORING WELL LOCATION

**FIGURE 2**  
SITE MAP

SERVICE STATION No. 10093  
130 S. TAYLOR STREET  
GREEN BAY, WISCONSIN

|              |         |           |         |
|--------------|---------|-----------|---------|
| PROJECT NO.: | 959-432 | DRAWN BY: |         |
| PREPARED BY: |         | DATE:     | 9/15/96 |
| CD:          |         |           |         |
| FILE NAME:   | 95932   |           |         |



**Table 2**  
 Groundwater Analytical Results  
 Service Station No.10093  
 130 South Taylor Street  
 Green Bay, Wisconsin  
 Delta Project No. 32345

| MW-1      | Volatile Organics          |                 |                 |                           |                 |                      |              |              |                          |             | Phase 1 Biodegradation Parameters |              |                            |     |                     |                       |
|-----------|----------------------------|-----------------|-----------------|---------------------------|-----------------|----------------------|--------------|--------------|--------------------------|-------------|-----------------------------------|--------------|----------------------------|-----|---------------------|-----------------------|
|           | Parameter/<br>Date Sampled | Benzene<br>µg/L | Toluene<br>µg/L | Ethyl-<br>benzene<br>µg/L | Xylenes<br>µg/L | Total<br>TMB<br>µg/L | MTBE<br>µg/L | *GRO<br>µg/L | Naph-<br>thalene<br>µg/L | DO<br>(ppm) | REDOX<br>milli Volts              | Temp<br>(°C) | Conductivity<br>(µmhos/cm) | pH  | Total Iron<br>(ppm) | Soluble Iron<br>(ppm) |
| NR 140 ES | 5.0                        | 343             | 700             | 620                       | 480             | 60                   |              | 40           |                          |             |                                   |              |                            |     |                     |                       |
| 04/04/94  | <0.4                       | <0.6            | <0.8            | <1.3                      | <1.4            | 49                   | <50          | <1.6         | NM                       | NM          | 5                                 | 990          | 6.53                       | NM  | NM                  |                       |
| 07/19/95  | <1.0                       | 1.2             | 1.6             | <2.0                      | <2.0            | 72                   | 120          | <10          | <1.0                     | NM          | 17                                | 901          | 6.99                       | NM  | NM                  |                       |
| 10/25/95  | <1.0                       | 4.8             | <1.0            | 3.5                       | 2.5             | 95                   | 100          | <5.0         | <1.0                     | NM          | 13                                | 1000         | 6.36                       | NM  | NM                  |                       |
| 01/23/96  | <1.0                       | 1.4             | <1.0            | <2.0                      | <2.0            | 84                   | 54           | <5.0         | <1.0                     | NM          | 8                                 | 1658         | 6.65                       | NM  | NM                  |                       |
| 10/23/96  | <0.5                       | <2.0            | <2.0            | <4.0                      | <4.0            | 56                   | 100          | NA           | 0.70                     | -048        | 15.7                              | 1100         | 6.60                       | 1.3 | 1.1                 |                       |
| 05/13/98  | <1.0                       | <1.0            | <1.0            | <2.0                      | <2.0            | 70                   | <100         | NA           | 1.0                      | -17         | 12.8                              | 563          | 7.29                       | 5.0 | 2.0                 |                       |
| 04/08/99  | <1.0                       | 1.1             | <1.0            | <2.0                      | <2.0            | 55                   | <100         | NA           | 0.42                     | 91          | 7.9                               | 973          | 7.29                       | 1.0 | 1.0                 |                       |
| 06/21/99  | <0.20                      | 0.78            | <0.50           | <1.0                      | <1.0            | 56                   | 65           | <1.0         | 0.35                     | 38          | 17.1                              | 949          | 6.89                       | 0.4 | 0.4                 |                       |

| MW-3      | Volatile Organics          |                 |                 |                           |                 |                      |              |              |                          |             | Phase 1 Biodegradation Parameters |              |                            |     |                     |                       |
|-----------|----------------------------|-----------------|-----------------|---------------------------|-----------------|----------------------|--------------|--------------|--------------------------|-------------|-----------------------------------|--------------|----------------------------|-----|---------------------|-----------------------|
|           | Parameter/<br>Date Sampled | Benzene<br>µg/L | Toluene<br>µg/L | Ethyl-<br>benzene<br>µg/L | Xylenes<br>µg/L | Total<br>TMB<br>µg/L | MTBE<br>µg/L | *GRO<br>µg/L | Naph-<br>thalene<br>µg/L | DO<br>(ppm) | REDOX<br>milli Volts              | Temp<br>(°C) | Conductivity<br>(µmhos/cm) | pH  | Total Iron<br>(ppm) | Soluble Iron<br>(ppm) |
| NR 140 ES | 5                          | 343             | 700             | 620                       | 480             | 60                   |              | 40           |                          |             |                                   |              |                            |     |                     |                       |
| 04/04/94  | <2.0                       | <3.0            | <4.0            | <6.5                      | <7.0            | 330                  | 370          | <8.0         | NM                       | NM          | 5                                 | 1010         | 6.75                       | NM  | NM                  |                       |
| 07/19/95  | <1.0                       | <1.0            | <1.0            | <2.0                      | <2.0            | <4.0                 | <50          | <10          | 1                        | NM          | 21                                | 209          | 8.15                       | NM  | NM                  |                       |
| 10/25/95  | <0.5                       | <0.6            | <0.8            | <1.3                      | <1.4            | 240                  | NA           | <1.6         | 1                        | NM          | 14                                | 932          | 7.14                       | NM  | NM                  |                       |
| 01/23/96  | <1.0                       | <1.0            | <1.0            | <2.0                      | <2.0            | 310                  | 180          | <5.0         | <1.0                     | NM          | 7                                 | 1064         | 6.6                        | NM  | NM                  |                       |
| 10/23/96  | <0.5                       | <2.0            | <2.0            | <4.0                      | <4.0            | 10                   | <100         | NA           | 0.3                      | -113        | 16.2                              | 1000         | 6.9                        | 10+ | 9.1                 |                       |

**Table 2**  
 Groundwater Analytical Results  
 Service Station No. 10093  
 130 South Taylor Street  
 Green Bay, Wisconsin  
 Delta Project No. 32345

| MW-4      | Volatile Organics          |                 |                 |                           |                 |                      |              |              |                          |             | Phase 1 Biodegradation Parameters |              |                            |      |                     |                       |
|-----------|----------------------------|-----------------|-----------------|---------------------------|-----------------|----------------------|--------------|--------------|--------------------------|-------------|-----------------------------------|--------------|----------------------------|------|---------------------|-----------------------|
|           | Parameter/<br>Date Sampled | Benzene<br>µg/L | Toluene<br>µg/L | Ethyl-<br>benzene<br>µg/L | Xylenes<br>µg/L | Total<br>TMB<br>µg/L | MTBE<br>µg/L | *GRO<br>µg/L | Naph-<br>thalene<br>µg/L | DO<br>(ppm) | REDOX<br>milli Volts              | Temp<br>(°C) | Conductivity<br>(µmhos/cm) | pH   | Total Iron<br>(ppm) | Soluble Iron<br>(ppm) |
| NR 140 ES | 5                          | 343             | 700             | 620                       | 480             | 60                   |              | 40           |                          |             |                                   |              |                            |      |                     |                       |
| 04/04/94  | 250                        | <3.0            | 80              | 260                       | 100             | 46                   | 1600         | 17           | NM                       | NM          | 4                                 | 1330         | 6.88                       | NM   | NM                  |                       |
| 07/19/95  | 49                         | 8.2             | 1.3             | 30                        | 10.9            | 290                  | 460          | <10          | <1.0                     | NM          | 19                                | 1438         | 6.99                       | NM   | NM                  |                       |
| 10/25/95  | 320                        | 44              | 13              | 610                       | 172             | 480                  | 2300         | 35           | 1                        | NM          | 13                                | 1346         | 6.99                       | NM   | NM                  |                       |
| 01/23/96  | 99                         | 26              | 49              | 210                       | 78              | 1500                 | 1300         | 31           | <1.0                     | NM          | 7                                 | 1511         | 6.81                       | NM   | NM                  |                       |
| 10/23/96  | 50                         | 8               | 7               | 58                        | 21              | 1500E                | 1300         | NA           | 0.7                      | -101        | 15.7                              | 1600         | 7.00                       | 10++ | 10+                 |                       |
| 05/13/98  | 920                        | 110             | 290             | 980                       | 1040            | 5400                 | 10000        | NA           | 0.8                      | -52         | 13.7                              | 2260         | 7.00                       | 10++ | 10+                 |                       |
| 04/08/99  | 380                        | 100             | 140             | 590                       | 338             | 2800                 | 4400         | NA           | 0.80                     | 29          | 7.7                               | 1856         | 7.17                       | 10+  | 10+                 |                       |
| 06/21/99  | 510                        | 41              | 93              | 605                       | 414             | 2990                 | 4680         | 38           | 0.62                     | -13         | 24.7                              | 2720         | 6.68                       | 10++ | 10+                 |                       |

| MW-5      | Volatile Organics          |                 |                 |                           |                 |                      |              |              |                          |             | Phase 1 Biodegradation Parameters |              |                            |    |                     |                       |
|-----------|----------------------------|-----------------|-----------------|---------------------------|-----------------|----------------------|--------------|--------------|--------------------------|-------------|-----------------------------------|--------------|----------------------------|----|---------------------|-----------------------|
|           | Parameter/<br>Date Sampled | Benzene<br>µg/L | Toluene<br>µg/L | Ethyl-<br>benzene<br>µg/L | Xylenes<br>µg/L | Total<br>TMB<br>µg/L | MTBE<br>µg/L | *GRO<br>µg/L | Naph-<br>thalene<br>µg/L | DO<br>(ppm) | REDOX<br>milli Volts              | Temp<br>(°C) | Conductivity<br>(µmhos/cm) | pH | Total Iron<br>(ppm) | Soluble Iron<br>(ppm) |
| NR 140 ES | 5                          | 343             | 700             | 620                       | 480             | 60                   |              | 40           |                          |             |                                   |              |                            |    |                     |                       |
| 04/04/94  | 330                        | 160             | 260             | 1800                      | 1440            | <50                  | 9700         | <80          | NM                       | NM          | 5                                 | 1960         | 6.53                       | NM | NM                  |                       |
| 05/20/94  | 920                        | <30             | 440             | 780                       | 650             | 200                  | 8000         | 130          | NM                       | NM          | 17                                | 1800         | 6.9                        | NM | NM                  |                       |

WELL ABANDONED JUNE 17, 1995

**Table 2**  
 Groundwater Analytical Results  
 Service Station No.10093  
 130 South Taylor Street  
 Green Bay, Wisconsin  
 Delta Project No. 32345

| MW-5R                      |                 | Volatile Organics |                           |                 |                      |              |              |                          |             |                      |              | Phase 1 Biodegradation Parameters |      |                     |                       |  |  |
|----------------------------|-----------------|-------------------|---------------------------|-----------------|----------------------|--------------|--------------|--------------------------|-------------|----------------------|--------------|-----------------------------------|------|---------------------|-----------------------|--|--|
| Parameter/<br>Date Sampled | Benzene<br>µg/L | Toluene<br>µg/L   | Ethyl-<br>benzene<br>µg/L | Xylenes<br>µg/L | Total<br>TMB<br>µg/L | MTBE<br>µg/L | *GRO<br>µg/L | Naph-<br>thalene<br>µg/L | DO<br>(ppm) | REDOX<br>milli Volts | Temp<br>(°C) | Conductivity<br>(µmhos/cm)        | pH   | Total Iron<br>(ppm) | Soluble Iron<br>(ppm) |  |  |
| NR 140 ES                  | 5               | 343               | 700                       | 620             | 480                  | 60           | 40           |                          |             |                      |              |                                   |      |                     |                       |  |  |
| 07/19/95                   | 240             | 3.1               | 29                        | <6.5            | <7.0                 | 200          | NA           | <8.0                     | 10          | NM                   | 18           | 1465                              | 6.92 | NM                  | NM                    |  |  |
| 10/25/95                   | <2.5            | <3.0              | <4.0                      | <6.5            | <7.0                 | 120          | NA           | <8.0                     | <1.0        | NM                   | 14           | 1958                              | 6.84 | NM                  | NM                    |  |  |
| 10/23/96                   | 4               | <2.0              | <2.0                      | <4.0            | <4.0                 | 12           | 230          | NA                       | 1.5         | -101                 | 14           | 1700                              | 7.1  | 10++                | 10+                   |  |  |

| MW-6                       |                 | Volatile Organics |                           |                 |                      |              |              |                          |             |                      |              | Phase 1 Biodegradation Parameters |      |                     |                       |  |  |
|----------------------------|-----------------|-------------------|---------------------------|-----------------|----------------------|--------------|--------------|--------------------------|-------------|----------------------|--------------|-----------------------------------|------|---------------------|-----------------------|--|--|
| Parameter/<br>Date Sampled | Benzene<br>µg/L | Toluene<br>µg/L   | Ethyl-<br>benzene<br>µg/L | Xylenes<br>µg/L | Total<br>TMB<br>µg/L | MTBE<br>µg/L | *GRO<br>µg/L | Naph-<br>thalene<br>µg/L | DO<br>(ppm) | REDOX<br>milli Volts | Temp<br>(°C) | Conductivity<br>(µmhos/cm)        | pH   | Total Iron<br>(ppm) | Soluble Iron<br>(ppm) |  |  |
| NR 140 ES                  | 5               | 343               | 700                       | 620             | 480                  | 60           | 40           |                          |             |                      |              |                                   |      |                     |                       |  |  |
| 04/04/94                   | 6.2             | <3.0              | 12                        | <6.5            | 57.7                 | 9            | 530          | 190                      | NM          | NM                   | 5            | 1010                              | 6.90 | NM                  | NM                    |  |  |
| 05/20/94                   | 64              | 11                | 54                        | 9.4             | 99                   | <2.0         | 880          | 20                       | NM          | NM                   | 17           | 1090                              | 6.97 | NM                  | NM                    |  |  |
| 07/19/95                   | 32              | <1.2              | 2.5                       | <2.6            | 21                   | 9.4          | NA           | 4.1                      | 1           | NM                   | 20           | 1031                              | 6.88 | NM                  | NM                    |  |  |
| 10/25/95                   | 290             | 68                | 46                        | 87              | 99                   | 24           | 1700         | 35                       | 1           | NM                   | 14           | 1275                              | 7.00 | NM                  | NM                    |  |  |
| 10/23/96                   | 2               | <2.0              | <2.0                      | <4.0            | <4.0                 | 31           | <100         | NA                       | 0.6         | -059                 | 15.7         | 900                               | 6.90 | 10++                | 10+                   |  |  |
| 05/13/98                   | 24              | 1.9               | 5.3                       | 2.3             | 4.0                  | 110          | 130          | NA                       | 1.1         | -065                 | 15.1         | 1069                              | 7.13 | 10++                | 10+                   |  |  |
| 04/08/99                   | 71              | 10                | 36                        | 26              | 52.3                 | 170          | 560          | NA                       | 0.90        | 070                  | 14.9         | 1171                              | 7.35 | 10+                 | 10+                   |  |  |
| 06/21/99                   | 44              | 6.0               | 15                        | 13              | 26.4                 | 181          | 440          | 2.4                      | 1.50        | 032                  | 23.4         | 1332                              | 6.29 | 8.0                 | 6.0                   |  |  |

**Table 2**  
 Groundwater Analytical Results  
 Service Station No. 10093  
 130 South Taylor Street  
 Green Bay, Wisconsin  
 Delta Project No. 32345

| MW-7                       |                 | Phase I Biodegradation Parameters |                           |                 |                      |              |              |                          |             |                                   |              |                            |      |                     |                       |
|----------------------------|-----------------|-----------------------------------|---------------------------|-----------------|----------------------|--------------|--------------|--------------------------|-------------|-----------------------------------|--------------|----------------------------|------|---------------------|-----------------------|
| Volatile Organics          |                 |                                   |                           |                 |                      |              |              |                          |             | Phase I Biodegradation Parameters |              |                            |      |                     |                       |
| Parameter/<br>Date Sampled | Benzene<br>µg/L | Toluene<br>µg/L                   | Ethyl-<br>benzene<br>µg/L | Xylenes<br>µg/L | Total<br>TMB<br>µg/L | MTBE<br>µg/L | *GRO<br>µg/L | Naph-<br>thalene<br>µg/L | DO<br>(ppm) | REDOX<br>milli Volts              | Temp<br>(°C) | Conductivity<br>(µmhos/cm) | pH   | Total Iron<br>(ppm) | Soluble Iron<br>(ppm) |
| NR 140 ES                  | 5               | 343                               | 700                       | 620             | 480                  | 60           |              | 40                       |             |                                   |              |                            |      |                     |                       |
| 07/19/95                   | <0.4            | <0.6                              | <0.8                      | <1.3            | 1.4                  | <1.0         | NA           | <1.6                     | 1           | NM                                | 21           | 773                        | 6.99 | NM                  | NM                    |
| 10/25/95                   | <1.0            | <1.0                              | <1.0                      | <2.0            | <2.0                 | <4.0         | <50          | <5.0                     | 1.5         | NM                                | 13           | 836                        | 7.2  | NM                  | NM                    |

| TRIP BLANK                 |                 | Volatile Organics |                           |                 |                      |              |              |                          |             |                      |              |                            |    |                     |                       |
|----------------------------|-----------------|-------------------|---------------------------|-----------------|----------------------|--------------|--------------|--------------------------|-------------|----------------------|--------------|----------------------------|----|---------------------|-----------------------|
| Parameter/<br>Date Sampled | Benzene<br>µg/L | Toluene<br>µg/L   | Ethyl-<br>benzene<br>µg/L | Xylenes<br>µg/L | Total<br>TMB<br>µg/L | MTBE<br>µg/L | *GRO<br>µg/L | Naph-<br>thalene<br>µg/L | DO<br>(ppm) | REDOX<br>milli Volts | Temp<br>(°C) | Conductivity<br>(µmhos/cm) | pH | Total Iron<br>(ppm) | Soluble Iron<br>(ppm) |
| 05/13/98                   | <1.0            | <1.0              | <1.0                      | <2.0            | <2.0                 | 36           | <100         | NA                       |             |                      |              |                            |    |                     |                       |
| 04/08/99                   | <1.0            | <1.0              | <1.0                      | <2.0            | <2.0                 | <4.0         | <100         | NA                       |             |                      |              |                            |    |                     |                       |
| 06/21/99                   | <0.20           | <0.50             | <0.50                     | <1.0            | <1.0                 | <0.30        | <50          | <1.0                     |             |                      |              |                            |    |                     |                       |



**LEGEND**

PROPERTY BOUNDARY

SUMP LOCATIONS

MONITORING WELL LOCATION

ABANDONED MONITORING WELL LOCATION

(613.78) GROUNDWATER ELEVATION (FEET)

GROUNDWATER CONTOUR (FEET)

INFERRED GROUNDWATER LINE (FEET)

BENZENE ISOCONCENTRATION (µg/l)

24

NS

GROUNDWATER FLOW DIRECTION

S-1

MW-1

MW-2

(613.78)

(613.78)

(5)

(5)

24

NS

FIGURE 8

GROUNDWATER CONTOURS & BENZENE CONCENTRATION MAP

5/13/98

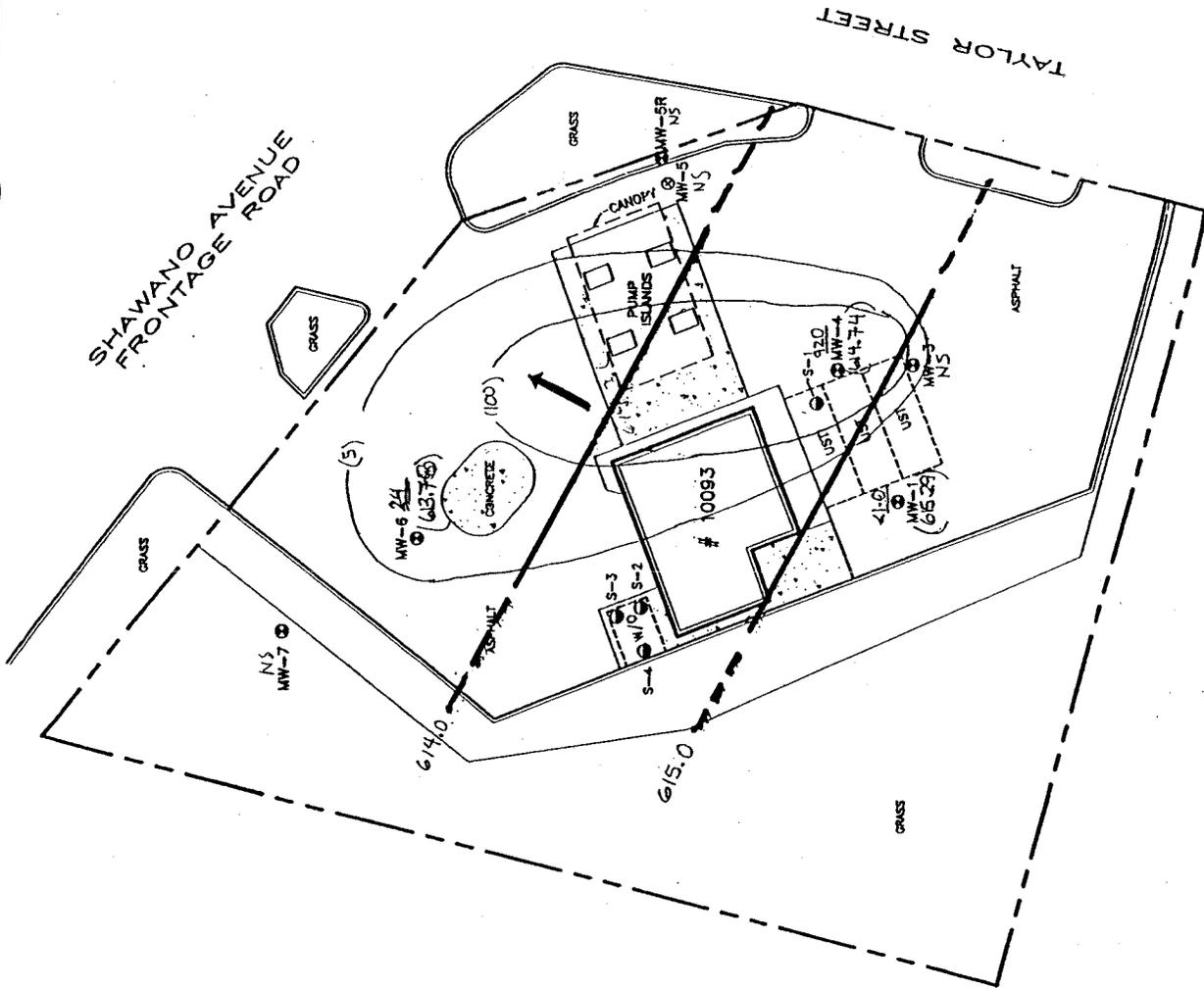
SERVICE STATION No. 10093

130 S. TAYLOR STREET  
GREEN BAY, WISCONSIN

|             |         |
|-------------|---------|
| PROJECT NO. | DATE    |
| 1985-32     | 9/15/98 |
| ISSUE NO.   | DATE    |
| 1           | 9/15/98 |
| SCALE       | DATE    |
| AS SHOWN    | 9/15/98 |



0 40  
SCALE IN FEET





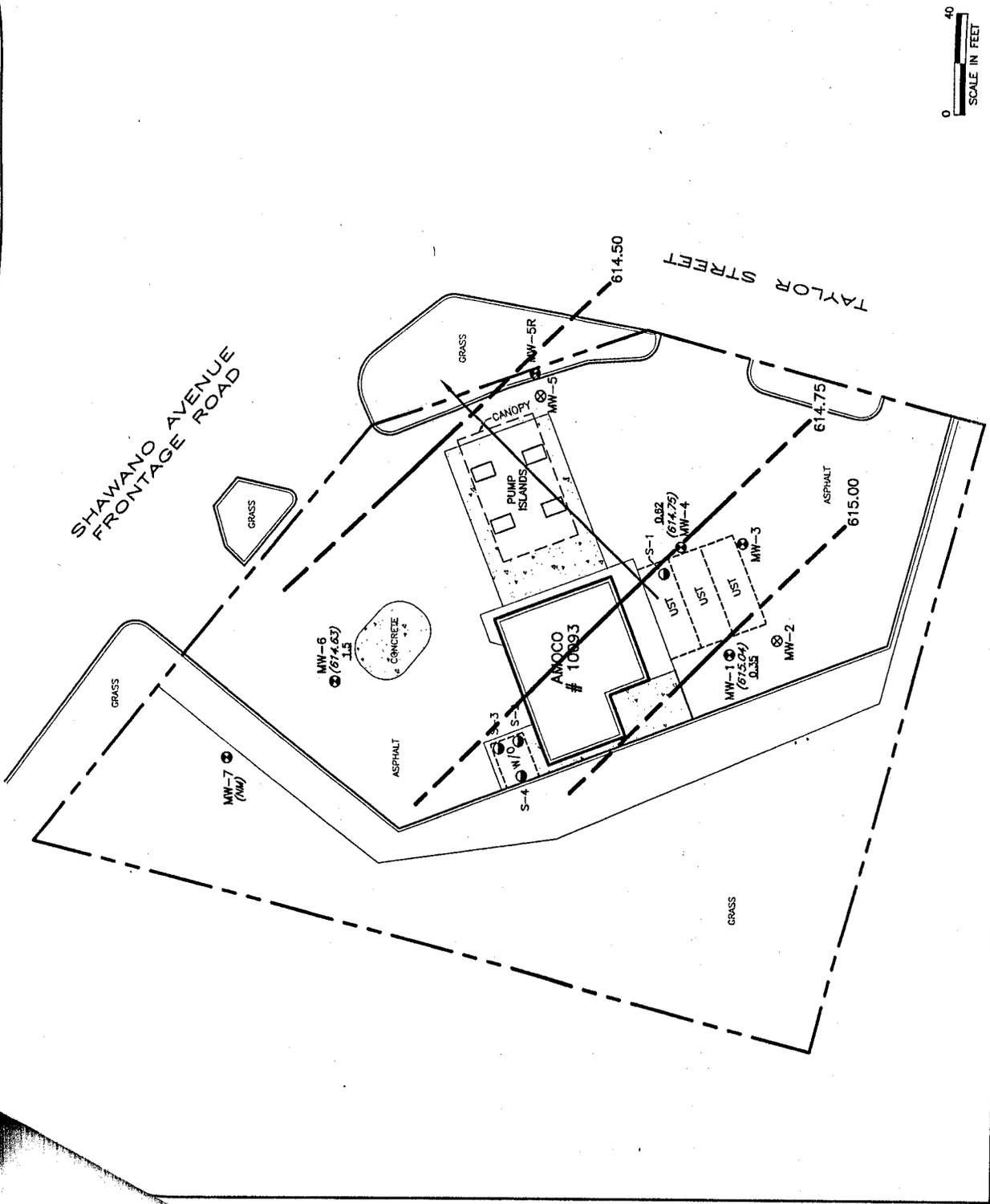
**LEGEND**

- PROPERTY BOUNDARY
- S-1 ● SUMP LOCATIONS
- MW-1 ● MONITORING WELL LOCATION
- MW-2 ⊗ ABANDONED MONITORING WELL LOCATION
- (615.04) GROUNDWATER ELEVATION (FEET)
- 614.50 GROUNDWATER CONTOUR LINE (FEET)
- INFERRED GROUNDWATER CONTOUR LINE (FEET)
- GROUNDWATER FLOW DIRECTION
- 0.62 DISSOLVED OXYGEN CONCENTRATION (ppm)

DATA COLLECTED 6/21/99

**FIGURE 12**  
**GROUNDWATER CONTOUR & DISSOLVED OXYGEN CONCENTRATION MAP**  
 AMOCO SERVICE STATION No. 10093  
 130 S. TAYLOR STREET  
 GREEN BAY, WISCONSIN

|              |          |
|--------------|----------|
| PROJECT NO.: | 1096-032 |
| DRAWN BY:    | DD       |
| PREPARED BY: | BB       |
| DATE:        | 8/11/99  |
| FILE NAME:   | 98032    |





**LEGEND**

- PROPERTY BOUNDARY
- S-1 ● SUMP LOCATIONS
- MW-1 ● MONITORING WELL LOCATION
- MW-2 ● ABANDONED MONITORING WELL LOCATION
- (615.09) GROUNDWATER ELEVATION (FEET)
- 615.25 GROUNDWATER CONTOUR LINE (FEET)
- INFERRED GROUNDWATER CONTOUR LINE (FEET)
- GROUNDWATER FLOW DIRECTION
- Z1/170 BENZENE/MTBE CONCENTRATION (ug/L)
- 50 BENZENE ISOCONCENTRATION (ug/L)
- 60 MTBE ISOCONCENTRATION (ug/L)

DATA COLLECTED 4/8/99

: > P.A.L

: > B.S

: CLEAR W110

**FIGURE 2**  
GROUNDWATER CONTOUR AND  
ISOCONCENTRATION MAP

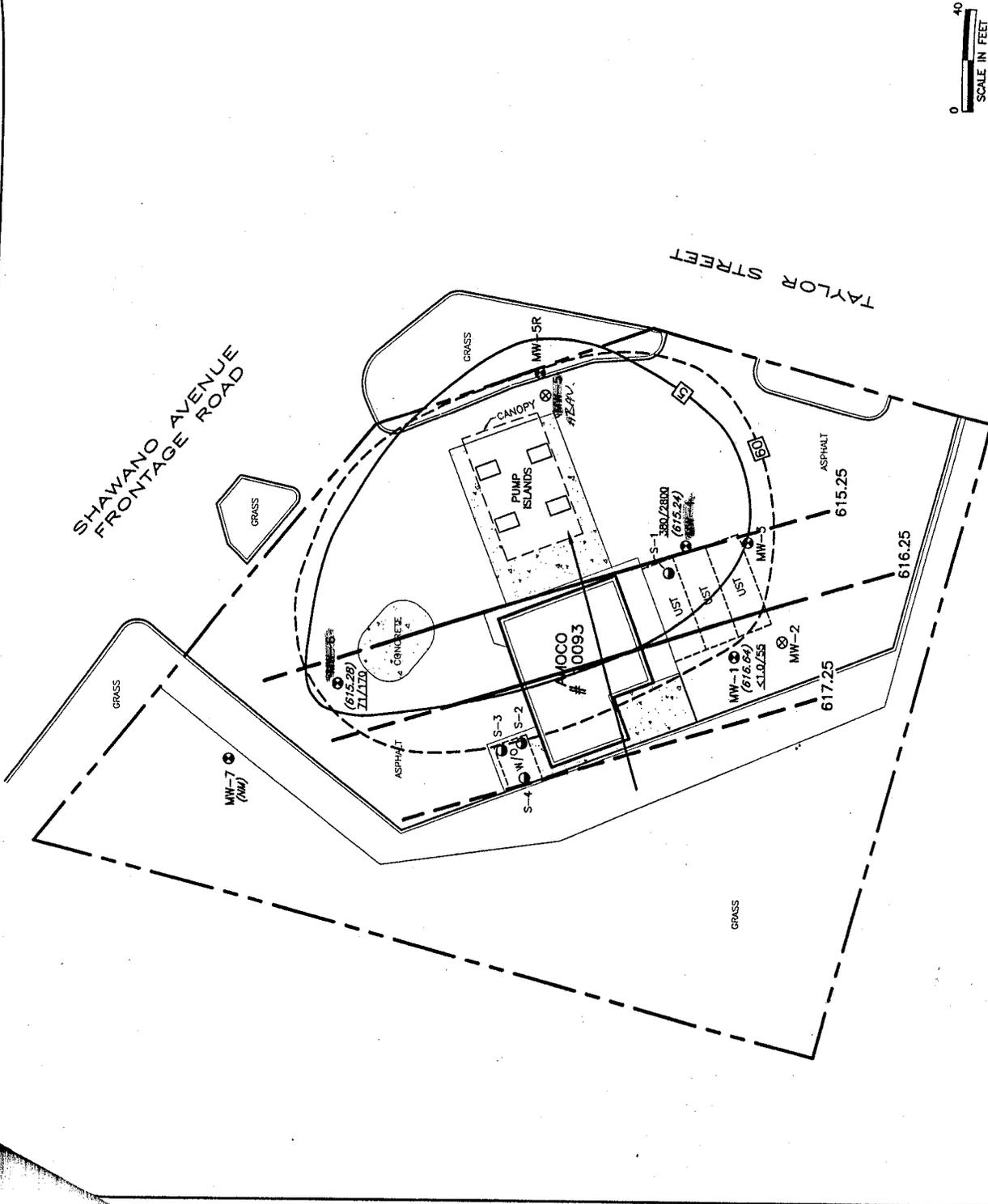
AMOCO SERVICE STATION No. 10093  
130 S. TAYLOR STREET  
GREEN BAY, WISCONSIN

|             |          |             |  |
|-------------|----------|-------------|--|
| PROJECT NO: | 3234-506 | DRAWN BY:   |  |
| DATE:       | 10/06/99 | CHECKED BY: |  |
| FILE NAME:  | 96832    | DATE:       |  |



GW

0 40  
SCALE IN FEET

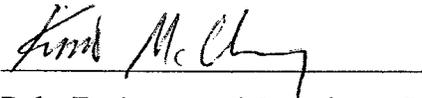


**CERTIFICATION OF LEGAL DESCRIPTION ACCURACY**

**FOR**

Amoco Service Station No. 10093  
130 S. Taylor Street  
Howard, Wisconsin  
BRRTS No. 03-05-001665  
PECFA No. 54303-26166-30  
Delta No. 32345

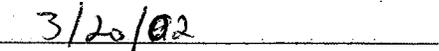
The enclosed deed and legal description for the above-mentioned property were provided by the Brown County Register of Deeds Office. According to the information available to Delta Environmental Consultants, Inc., the legal description is accurate and complete.



Delta Environmental Consultants, Inc.



Printed Name



Date



February 11, 2002

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

Mr. and Mrs. Eben Goethe  
614 St. Jude Street  
Green Bay, WI 54303

**Subject:** **Groundwater Geographic Information System (GIS) Listing Notification**  
Amoco Service Station No. 10093  
130 S. Taylor Street  
Howard, Wisconsin  
BRRTS No. 03-05-001665  
Commerce No. 54303-26166-30  
Delta Project No. 32345

Dear Mr. and Mrs. Goethe:

Delta Environmental Consultants, Inc. (Delta) is issuing this letter to you on behalf of BP Products North America, Inc. (BP), formerly known as Amoco Oil Company. The purpose of this letter is to notify you of our intent to list the above-mentioned property on the Wisconsin Department of Natural Resource's (WDNR's) GIS Database.

Groundwater contamination is present at your property indicated above as a result of the activity of the former Amoco Service Station that was located on that property. The levels of benzene and methyl tertiary butyl ether (MTBE) contamination in the groundwater on your property are above the state groundwater enforcement standards found in chapter NR 140, Wisconsin Administrative Code. However, our investigation of this contamination indicates this groundwater contaminant plume is stable or receding and will naturally degrade over time.

I believe that allowing natural attenuation to complete the cleanup at this site will meet the requirement for case closure that are found in chapter NR 726, Wisconsin Administrative Code. We have requested that the Department of Natural Resources accept natural attenuation as the final remedy for this site and grant case closure. Closure means that the Department will not be requiring any further investigation or cleanup action to be taken, other than the reliance on natural attenuation. A fact sheet is attached that explains natural attenuation.

Since you are not responsible for the groundwater contamination on your property, neither you nor any subsequent owner of your property will be held responsible for investigation or cleanup of this groundwater contamination, as long as you and any subsequent owners comply with the requirements of section 292.13, Wisconsin Statutes, including allowing access to your property for environmental investigation or cleanup if access is required. For further information on the requirements of section 292.13, Wisconsin Statutes, you may call 1-800-367-6076 for calls originating in Wisconsin, or 608-264-6020 if you are calling from out of state or within the Madison area.

The Department of Natural Resources will not act on my request for at least 30 days after the date of this letter. As an affected property owner, you have a right to contact the Department to provide any technical information that you may have that indicates your site should not be listed on the GIS Registry. If you

would like to submit any information to the Department of Natural Resources that is relevant to this closure request, you should mail that information to:

Mr. Keld Lauridsen  
Wisconsin Department of Natural Resources  
Northeast Region Headquarters  
1125 N. Military Avenue  
P.O. Box 10448  
Green Bay, WI 54307

All properties within the site boundaries where groundwater contamination exceeds chapter NR 140 groundwater enforcement standards will be listed on the Department of Natural Resources' GIS Registry of Closed Remediation Sites. The information on the GIS Registry includes maps showing the location of properties in Wisconsin where groundwater contamination above chapter NR 140 enforcement standards was found at the time that the case was closed. This GIS Registry will be available to the general public on the Department of Natural Resources' internet web site. The part of your deed that describes the property is enclosed. Please review the enclosed legal description of your property, and notify me within the next 30 days if the legal description is incorrect.

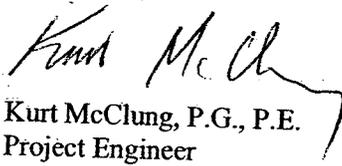
Should you or any subsequent property owner wish to construct or reconstruct a well on your property, special well construction standards may be necessary to protect the well from the residual groundwater contamination. Any well driller who proposes to construct a well on your property in the future will first need to call the Diggers Hotline (1-800-242-8511) if your property is located outside of the service area of a municipally owned water system, or contact the Drinking Water program within the Department of Natural Resources if your property is located within the designated service area of a municipally owned water system, to determine if there is a need for special well construction standards.

Once the Department makes a decision on my request to list your property on the GIS Registry, it will be documented in a letter. If the Department grants my request, you may obtain a copy of this letter by requesting a copy from me, by writing to the agency address given above, or by accessing the DNR GIS Registry of Closed Remediation Sites on the internet at [www.dnr.state.wi.us/org/at/et/geo/gwur](http://www.dnr.state.wi.us/org/at/et/geo/gwur). A copy of the closure letter is included as part of the site file on the GIS Registry of Closed Remediation Sites.

If you need more information, you may contact me at (262) 827-4806 or you may contact Keld Lauridsen at (920) 492-5800.

Sincerely,

**DELTA ENVIRONMENTAL CONSULTANTS, INC.**

  
Kurt McClung, P.G., P.E.  
Project Engineer

Attachments

c: Ray Stoelting, BP Products North America, Inc.  
Keld Lauridsen, WDNR