## GIS REGISTRY INFORMATION

**SITE NAME:** Catawba Oil

**BRRTS #** 03-51-197055 **FID # (if appropriate):**

**COMMERCE #: (if appropriate)** 54703-3530-20-A

**CLOSURE DATE:** 6/30/06

**STREET ADDRESS:** W9241 US Hwy 8

**CITY:** Catawba

**SOURCE PROPERTY GPS COORDINATES** (meters in WTM91 projection): X= 478486.09300 Y= 56268.93700

**CONTAMINATED MEDIA:** Groundwater ☐ Soil ☐ Both ☒

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

**IF YES, STREET ADDRESS 1:**

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

**Off -Source SOIL CONTAMINATION >GENERIC OR SITE-SPECIFIC RCL (SSRCL):** ☐ Yes ☒ No

**IF YES, STREET ADDRESS 1:**

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

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

**DOCUMENTS NEEDED:**

**Closure Letter, and any conditional closure letter issued** ☒

**Copy of most recent deed, including legal description, for all affected properties** ☒

**Certified survey map or relevant portion of the recorded plat map** ***if referenced in the legal description*** **) for all affected properties** ☒

**County Parcel ID number,** ***if used for county*****, for all affected properties** See deeds ☒

**Location Map** which outlines all properties within contaminated site boundaries on USGS topographic map or plat map in sufficient detail to permit the parcels to be located easily (8.5x14" if paper copy). If groundwater standards are exceeded, the map must also include the location of all municipal and potable wells within 1200' of the site. X

**Detailed Site Map(s) for all affected properties,** showing buildings, roads, property boundaries, contaminant sources, utility lines, monitoring wells and potable wells. (8.5x14", if paper copy) This map shall also show the location of all contaminated public streets, highway and railroad rights-of-way in relation to the source property and in relation to the boundaries of groundwater contamination exceeding ch. NR 140 ESs and soil contamination exceeding ch. NR 720 generic or SSRCLs. X

**Tables of Latest Groundwater Analytical Results (no shading or cross-hatching)** ☒

**Tables of Latest Soil Analytical Results (no shading or cross-hatching)** ☒

**Isoconcentration map(s),** ***if required for site investigation (SI)*** *(*8.5x14" if paper copy*)*. The isoconcentration map should have flow direction and extent of groundwater contamination defined. **If not available, include the latest extent of contaminant plume map.** X

**GW: Table of water level elevations, with sampling dates, and free product noted if present** ☒

**GW: Latest groundwater flow direction/monitoring well location map (should be 2 maps if maximum variation in flow direction is greater than 20 degrees)** X

**SOIL: Latest horizontal extent of contamination exceeding generic or SSRCLs, with one contour.** ☒

**Geologic cross-sections,** ***if required for SI.*** (8.5x14' if paper copy) ☒

**RP certified statement that legal descriptions are complete and accurate** ☒

**Copies of off-source notification letters (if applicable)** ☒

**Letter informing ROW owner of residual contamination (if applicable)**(public, highway or railroad ROW) ☒

**Copy of (soil or land use) deed restriction(s) or deed notice** ***if any required as a condition of closure.*** N/A ☐

State of Wisconsin \ DEPARTMENT OF NATURAL RESOURCES

Jim Doyle, Governor
Scott Hassett, Secretary
John Gozdzialski, Regional Director

Northern Region Headquarters
107 Sutliff Ave.
Rhinelander, Wisconsin 54501-3349
Telephone 715-365-8900
FAX 715-365-8932
TTY Access via relay - 711

July 14, 2006

Mr. Jerry Retzlaff
N9241 USH 8
Catawba, WI 54515

Subject: Final Case Closure By Closure Committee with Conditions Met
Catawba Oil, W9241 USH 8, Catawba, WI
WDNR BRRTS Activity #: 03-51-197055
PECFA # 54703-3530-20-A

Dear Mr. Retzlaff:

On September 1, 2005, the Northern Region Closure Committee reviewed the above referenced case for closure. This committee reviews environmental remediation cases for compliance with state laws and standards to maintain consistency in the closure of these cases. On September 22, 2005, you were notified that the Closure Committee had granted conditional closure to this case.

On June 30, 2006, the Department received correspondence indicating that you have complied with the requirements of closure, specifically, documentation of the abandonment of the monitoring wells. 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 GIS Registry. To review the sites on the GIS Registry web page, visit http://dnr.wi.gov/org/aw/rr/gis/index.htm. If your property is listed on the GIS Registry and you intend to construct or reconstruct a well, you will need Department approval. Department approval is required before construction or reconstruction of a well on a property listed on the GIS Registry, in accordance with s. NR 812.09(4)(w). To obtain approval, Form 3300-254 needs to be completed and submitted to the DNR Drinking and Groundwater program's regional water supply specialist. This form can be obtained on-line http://www.dnr.state.wi.us/org/water/dwg/3300254.pdf or at the web address listed above for the GIS Registry.

If there is equipment purchased with PECFA funds remaining at the site, contact the Commerce PECFA Program to determine the method for salvaging the equipment.

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.

We appreciate your efforts to restore the environment at this site. If you have any questions regarding this letter, please contact me at 715-365-8990.

Sincerely,
NORTHERN REGION

Janet Kazda

Janet Kazda
Remediation and Redevelopment Program

cc: File
Phil Richard, Park Falls

Matt Rahn
REI
4080 N 20th Ave
Wausau, WI 54401

**State of Wisconsin \ DEPARTMENT OF NATURAL RESOURCES**

WISCONSIN
DEPT. OF NATURAL RESOURCES

Jim Doyle, Governor
Scott Hassett, Secretary
John Gozdzialski, Regional Director

Northern Region Headquarters
107 Sutliff Ave.
Rhinelander, Wisconsin 54501-3349
Telephone 715-365-8900
FAX 715-365-8932
TTY Access via relay - 711

September 22, 2005

Jerry Retzlaff
N9241 USH 8
Catawba, WI 54515

Subject: Conditional Closure Decision with Requirements to Achieve Final Closure
Catawba Oil, W9241 USH 8, Catawba, Wisconsin
WDNR BRRTS Activity # 03-51-197055
PECFA # 54703-3530-20-A

Dear Mr. Retzlaff:

On September 1, 2005, the Northern Region Closure Committee reviewed your request for closure of the case described above. The Closure Committee reviews environmental remediation cases for compliance with state rules and statutes to maintain consistency in the closure of these cases. After careful review of the closure request, the Closure Committee has determined that the gasoline contamination on the site appears to have been investigated and remediated to the extent practicable under site conditions. Your case has been remediated to Department standards in accordance with s. NR 726.05, Wis. Adm. Code and will be closed if the following conditions are satisfied:

The monitoring wells at the site must be properly abandoned in compliance with ch. NR 141, Wis. Adm. Code. Documentation of well abandonment must be submitted to me on Form 3300-5B found at www.dnr.state.wi.us/org/water/dwg/gw/ or provided by the Department of Natural Resources.

When the above conditions have been satisfied, please submit a letter to let me know that applicable conditions have been met, and your case will be closed. 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 GIS Registry. To review the site on the GIS Registry web page, visit http://maps.dnr.state.wi.us/brrts.

If this is a PECFA site, section 101.143, Wis. Stats., requires that PECFA claimants seeking reimbursement of interest costs, for sites with petroleum contamination, submit a final reimbursement claim within 120 days after they receive a closure letter on their site. For claims not received by the PECFA Program within 120 days of the date of this letter, interest costs after 60 days of the date of this letter will not be eligible for PECFA reimbursement.

Please be aware that the 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 to the environment.

We appreciate your efforts to restore the environment at this site. If you have any questions regarding this letter, please contact me at 715-365-8990.

Sincerely,
NORTHERN REGION

Janet Kazda

Janet Kazda
Program Associate
Remediation & Redevelopment Program

cc: File
Phil Richard, Park Falls

Matt Rahn
REI
4080 N 20th Ave
Wausau, WI 54401

DOCUMENT NO

201524

WARRANTY DEED
THIS SPACE RESERVED FOR RECORDING DATA

REGISTER OF DEEDS OFFICE
PRICE COUNTY, WIS.
Received for Record

DEC 15 1975

AT 9 O'CLOCK A.M. DULY RECORDED IN VOL. 149 OF RECORDS, ON PAGE 215

Charles Bouba
REGISTER OF DEEDS

2.00 Pd

RETURN TO

P.L.T. #1171

BY THIS DEED, Theodore Kuchera and Anna Kuchera, individually and as husband and wife

Grantor conveys and warrants to Jerome A. Retzlaff

Grantee

for a valuable consideration One Dollar and other valuable consideration

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

Tax Key #

This is _____ homestead property.

A parcel of land in the Northwest Quarter of the Northwest Quarter of Section Eight (8), Township Thirty-five (35) North, Range One (1) West, Price County, Wisconsin described as follows: Commencing 754 3/12 feet east of the section corner of Sections 5, 6, 7 and 8, 35-1 West, and running thence south 214 6/12 feet, thence east 50 feet, thence north 214 6/12 feet and thence west 50 feet to the place of beginning.

02-35-01-08-2 2-000-13

Exemption #13 - Section 77.25

Exception to warranties:

Executed at Catawba, Wisconsin this _____ day of October, 1975.

~~SIGNED AND SEALED IN PRESENCE OF~~

Theodore Kuchera (SEAL)

Theodore Kuchera

Anna Kuchera (SEAL)

Anna Kuchera

(SEAL)

(SEAL)

NOTARY PUBLIC
JOHN HELLAND

Signatures of _____

authenticated this _____ day of _____, 19____.

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

STATE OF WISCONSIN
Price County. } ss.

Personally came before me, this 5 day of ~~October~~ 12, 1975, the above named Theodore Kuchera and Anna Kuchera

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

This instrument was drafted by

Slaby and Deda Law Office
Phillips, Wisconsin 54555

The use of witnesses is optional.

Notary Public Price County, Wis.

My Commission (Expires) (Is) Mar. 14 1978

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

GRAPHIC PRINTING CO., EAU CLAIRE, WIS.

WARRANTY DEED—STATE BAR OF WISCONSIN. FORM NO. 2 — 1971

222705

$ 2
FEE

THIS SPACE RESERVED FOR RECORDING DATA

REGISTER OF DEEDS OFFICE
PRICE COUNTY, WIS.
Received for Record

MAR 6 1981
4:05 P
AT O'CLOCK M DULY RECORDED IN
VOL 241 OF RECORDS ON PAGE 346
Mary Kroiss
REGISTER OF DEEDS

RETURN TO
Dale

THEODORE KUCHERA and ANNA KUCHERA, his wife, and each individually,

conveys and warrants to JEROME A. RETZLAFF and JODEE RETZLAFF, husband and wife, as joint tenants,

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

Tax Key No.

Commencing at the Northwest corner of the Northwest Quarter (NW 1/4) of Section Eight (8), Township Thirty-five (35) North, Range One (1) West, thence East on the Section line 804.25 feet to a point, this being the place of beginning, thence South 214.5 feet to a point, thence East 56 feet to a point, thence North 214.5 feet to the North line of said Section Eight (8), thence West 56 feet to the point of beginning.

This is not homestead property.
(is not)

Exception to warranties: 1) Subject to Price County Sanitary Code and Subdivision Control Ordinances; 2) Subject to Flood Plain Zoning Ordinances, if any; and 3) Subject to easements, exceptions, reservations and restrictions of record, if any.

Dated this 2nd day of ~~February~~ March, 1981

(SEAL)

X Theodore Kuchera (SEAL)
• THEODORE KUCHERA

(SEAL)

X Anna Kuchera (SEAL)
• ANNA KUCHERA

**AUTHENTICATION**

Signatures authenticated this day of , 19

•

TITLE: MEMBER STATE BAR OF WISCONSIN
(If not, authorized by § 706.06. Wis. Stats.)

THIS INSTRUMENT WAS DRAFTED BY
ONCHUCK & FOX
Phillips, Wisconsin 54555

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

**ACKNOWLEDGMENT**

STATE OF WISCONSIN )
Price County. ) ss.

Personally came before me, this 3 day of February, 1981 the above named THEODORE KUCHERA and ANNA KUCHERA,

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

•
Notary Public Price County, Wis.
My Commission is permanent. (If not, state expiration date: August 7, 1981)

PHILLIPS LAND TITLE CO. INC.
PLT
Serving Price County

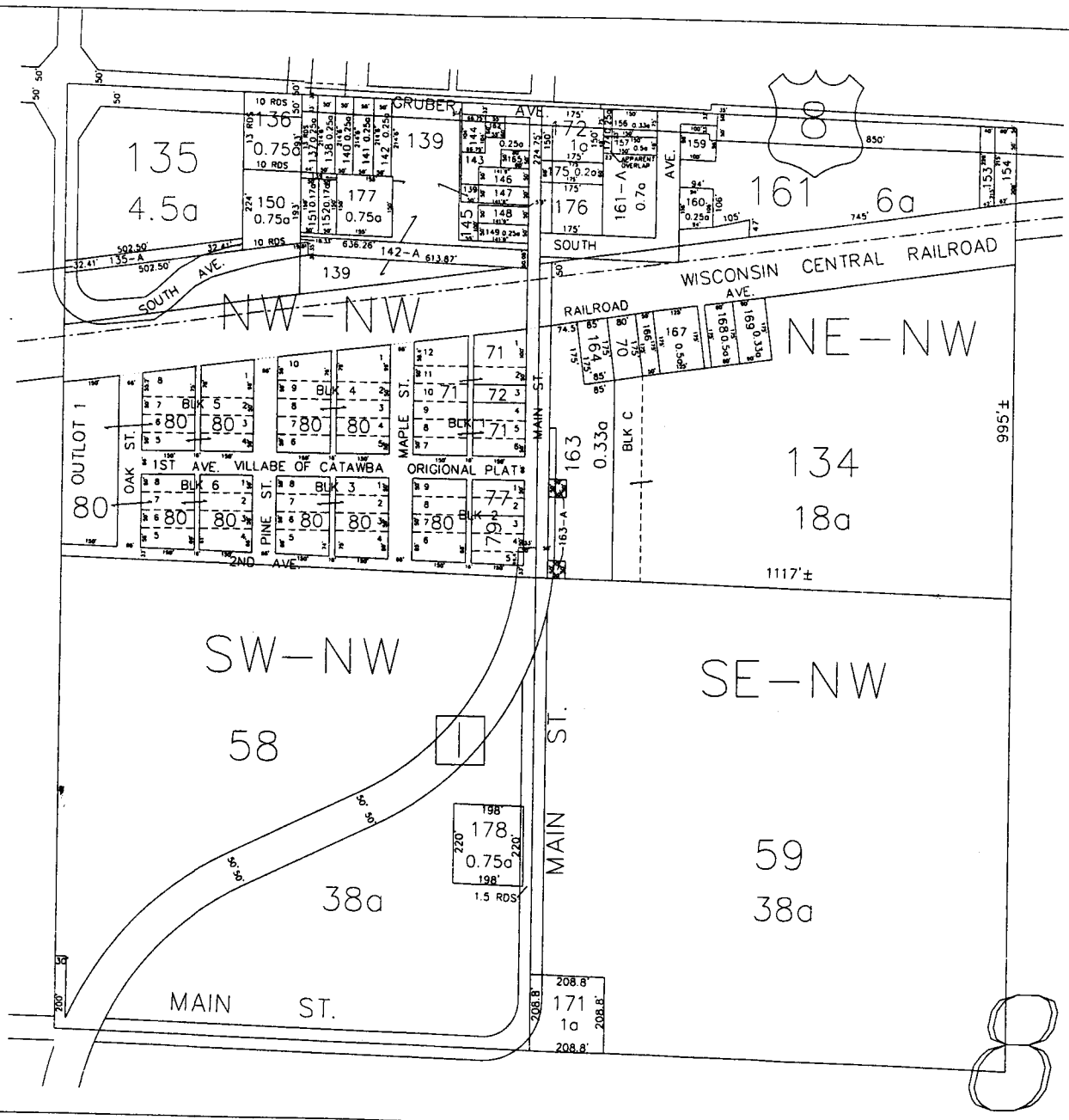
NOTARY PUBLIC

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

WARRANTY DEED

STATE BAR OF WISCONSIN
FORM No. 2 — 1977

2-35-01-08-2 2-000-14

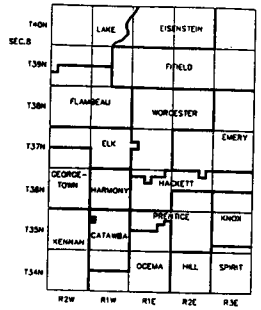



# PRICE COUNTY LAND INFORMATION SECTION MAP

## VILLAGE OF CATAWBA

## NW 1/4

## SEC. 8, T35N-R1W




1 INCH = 300 FT.

THIS MAP DOES NOT REPRESENT SURVEY OF THE PARCELS SHOWN AND SHOULD NOT BE USED IN REFERENCE TO/FOR CONVEYANCE OF REAL PROPERTY OR GUARANTEEING TITLE THEREOF.
THIS MAP REPRESENTS A SKETCH OF THE PARCELS LISTED IN THE PRICE COUNTY TAX ROL AND IS INTENDED TO AID IN THE TRACKING OF PARCELS. THE PARCELS ARE MAPPED FROM AVAILABLE PUBLIC RECORDS AND MAY NOT REPRESENT THE LOCATION OF THE PARCELS AS THE EXIST ON THE GROUNDS.

HATCHING REPRESENTS:

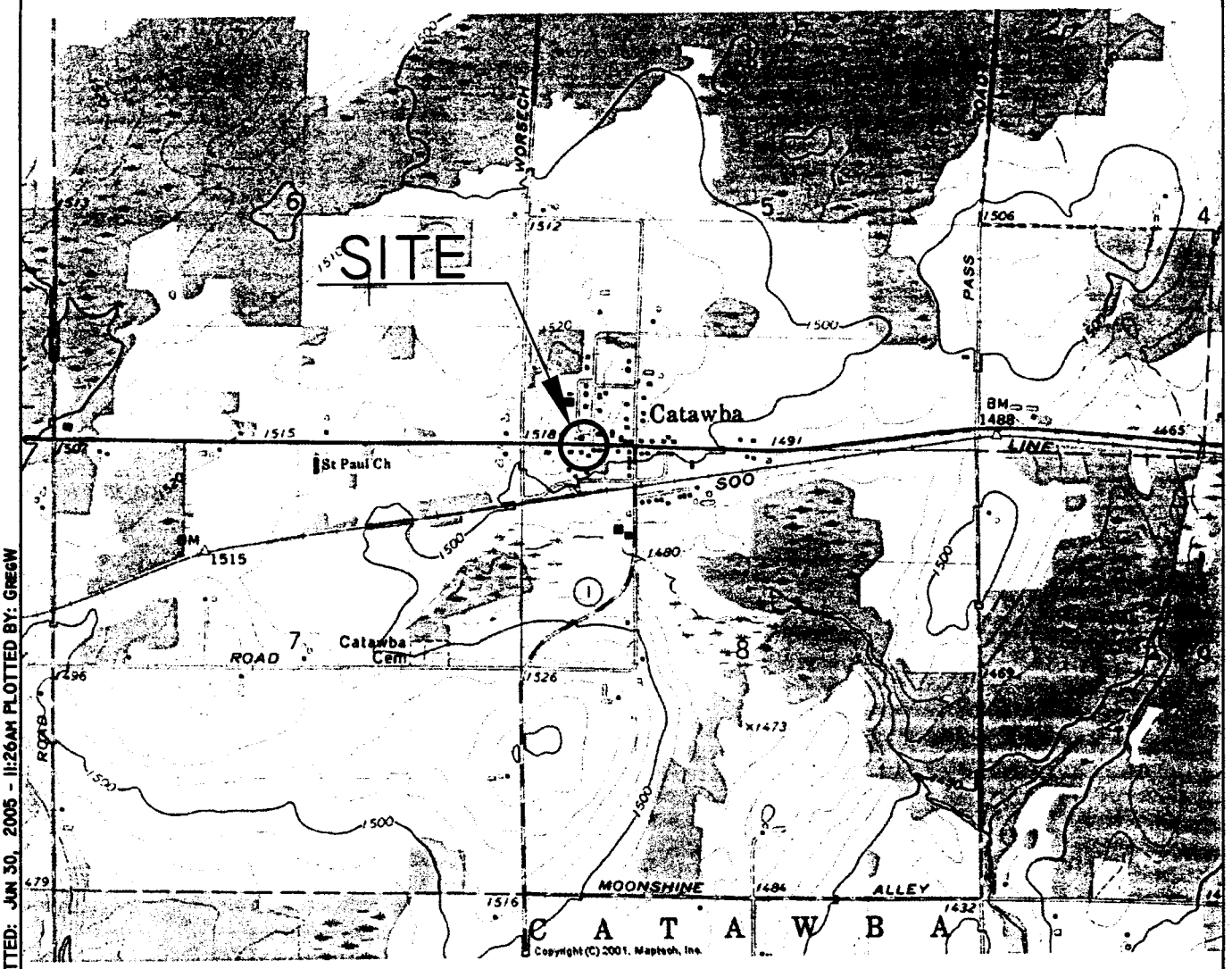
= BOUNDRY OVERLAPS

= BOUNDRY GAPS

DRAFTED BY: JLK DATE: 10.18.01
CAD FILE: PL351W08

THIS MAP IS A REPRESENTATION OF THE 2001 REAL PROPERTY LISTERS WORK ROLL

**REI**
CIVIL & ENVIRONMENTAL ENGINEERING, SURVEYING




SCALE 1:24 000

1 ½ 0 1 MILE

1000 0 1000 2000 3000 4000 5000 6000 7000 FEET

1 .5 0 1 KILOMETER

CONTOUR INTERVAL 10 FEET
DATUM IS MEAN SEA LEVEL

MN
GN
1°44' 31 MILS
2° 36 MILS

UTM GRID AND 1971 MAGNETIC NORTH DECLINATION AT CENTER OF SHEET

KENNAN, WIS.
SE/4 KENNAN 15' QUADRANGLE
N4530—W9030/7.5
1971
AMS 2875 II SE—SERIES V861

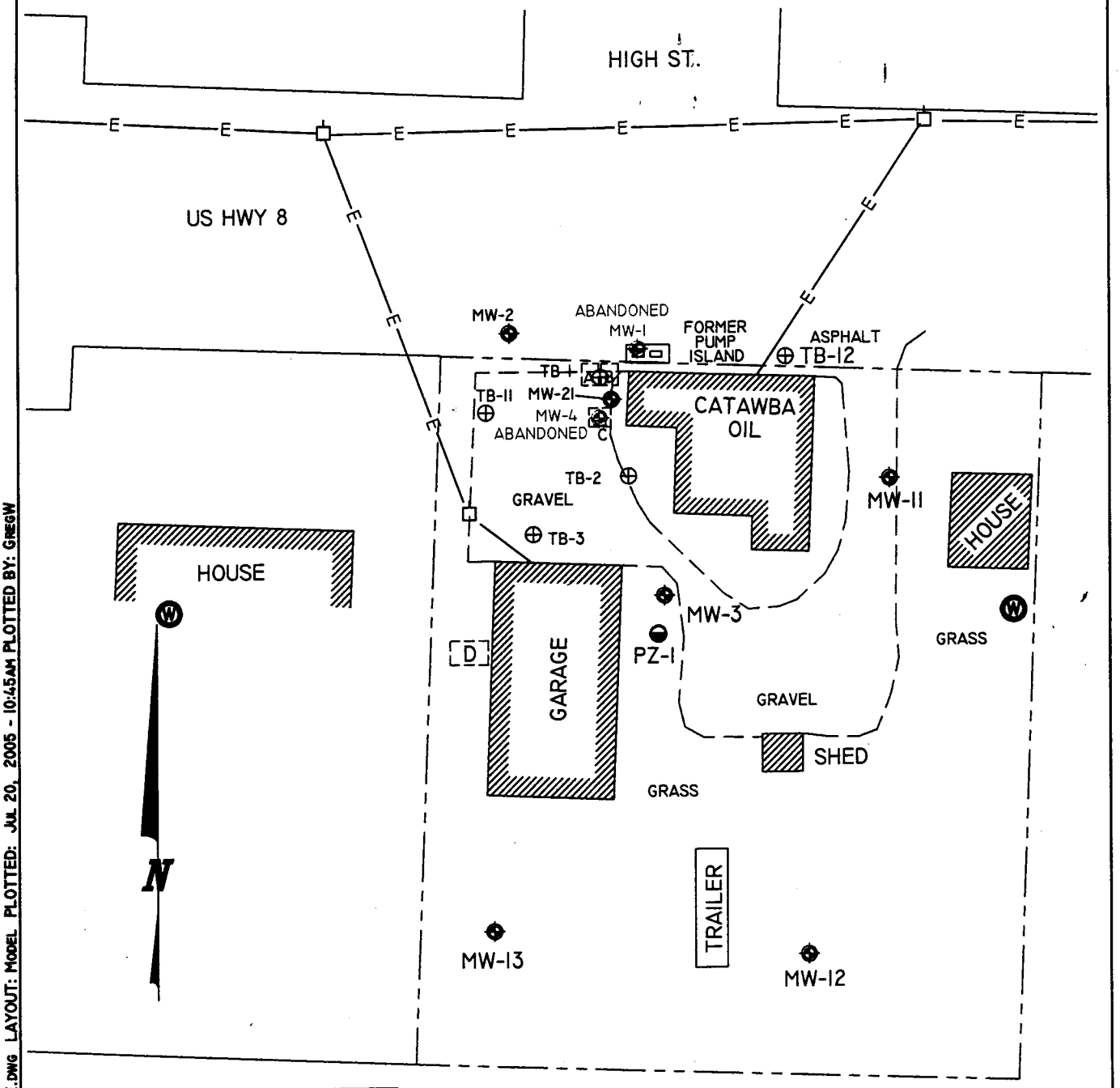
WISCONSIN

QUADRANGLE LOCATION

DRAWING FILE: J:\DRAFTING\3077_CAT\DWG\3077_VICIN.DWG LAYOUT: MODEL PLOTTED: JUN 30, 2005 - 11:26AM PLOTTED BY: GREGW

| CATAWBA OIL SITE<br>CATAWBA, WISCONSIN | FIGURE 1 : SITE VICINITY MAP | | |
|---|---|---|---|
| | PROJECT NO. 3077 | DRAWN BY: TJR | DATE: 6/29/05 |

REI
CIVIL & ENVIRONMENTAL ENGINEERING, SURVEYING




LEGEND

0 40

SCALE: 1" = 40'

- MONITORING WELL
- TEST BORING
- PIEZOMETER
- POTABLE WELL
- UTILITY POLE
- TANK LOCATION
- E — UTILITY LINE
- APPROXIMATE PROPERTY LINE

- A FORMER 300 GALLON UNLEADED GASOLINE UST
- B FORMER 500 GALLON LEADED GASOLINE UST
- C FORMER 500 GALLON DIESEL FUEL UST
- D 275 GALLON HEATING OIL AST

INFORMATION PROVIDED BY ENVIROGEN

DRAWING FILE: J:\DRAFTING\3077_CAT\DWG\3077_BASE.DWG LAYOUT: MODEL PLOTTED: JUL 20, 2005 - 10:45AM PLOTTED BY: GREGW

CATAWBA OIL SITE
W9241 HWY 8
CATAWBA WISCONSIN 54515

FIGURE 2 : SITE MAP

| PROJECT NO. | DRAWN BY: | DATE: |
|---|---|---|
| 3077 | TJR | 6/29/05 |

**Table 2b**
**Groundwater Analytical Results Summary**
**Catawba Oil**
**W9241 U.S. Highway 8**
**Catawba, WI**

| | | | Sample Date | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| **PARAMETER** | **ES** | **PAL** | *2/9/1999* | *5/11/1999* | *3/14/2000* | *6/1/2000* | *8/31/2000* | *11/2/2000* | *11/13/2003* | *2/12/2004* | *5/24/2004* | *8/19/2004* |
| **GRO (mg/L)** | | | 150 | 410 | 459 | 266 | 331 | 260 | NA | NA | NA | NA |
| **DRO (mg/L)** | | | 0.23 | NA | NA | NA | NA | NA | NA | NA | NA | NA |
| **Detected VOC's (ug/L)** | | | | | | | | | | | | |
| Benzene | 5 | 0.5 | **27** | **130** | **129** | **28** | **45.9** | **56.2** | 0.47 | 0.46 | 0.48 | **0.5** |
| Ethylbenzene | 700 | 140 | 3.9 | 13 | 43.3 | 26.3 | 17.2 | 11.3 | <0.60 | <0.60 | <0.40 | <0.40 |
| Toluene | 1000 | 200 | 22 | 40 | 10.9 | <5 | <5 | <5 | <0.58 | <0.58 | <0.36 | <0.36 |
| Xylenes (Total) | 10000 | 1000 | 12 | 55 | 2.78 | <5 | <5 | <5 | <1.2 | <1.2 | <0.74 | <0.74 |
| Trimethylbenzenes (Total) | 480 | 96 | 1.4 | 5.7 | 1.63 | <10 | <10 | <10 | <0.66 | <0.66 | <0.40 | <0.40 |
| MTBE | 60 | 12 | <0.25 | 0.54 | 2.89 | 0.5 | 4.07 | <0.5 | <0.58 | <0.58 | <0.36 | <0.36 |
| Napthalene | 40 | 8 | <0.23 | <0.89 | 6.29 | <8 | <8 | <8 | <0.58 | <0.58 | <0.47 | <0.47 |
| **Inorganics (mg/L)** | | | | | | | | | | | | |
| Lead | 15 | 1.5 | <1.2 | NA | NA | NA | NA | NA | <1.2 | 0.27 | 0.16 | <1.5 |
| Dissolved Iron | 0.3 | 0.15 | NA | NA | **0.882** | **0.303** | **0.536** | **0.458** | **1.1** | **0.41** | **3** | **0.18** |
| Nitrate-Nitrogen | 10 | 2 | NA | NA | <0.05 | 0.073 | <0.05 | <0.05 | 0.065 | <0.063 | 0.14 | 0.29 |
| Sulfate | 250 | 125 | NA | NA | 39.3 | 42 | 47.5 | 54.3 | 64 | 62 | 61 | 57 |
| **Field Parameters** | | | | | | | | | | | | |
| Temperature | | | NA | NA | NA | NA | NA | NA | 51.26 | NA | NA | 49.74 |
| Conductivity | | | NA | NA | NA | NA | NA | NA | 4995 | NA | NA | 4994 |
| Dissolved Oxygen | | | NA | NA | 6.76 | 5.2 | 2.96 | 2.87 | 3.14 | NA | NA | 8.4 |
| pH | | | NA | NA | NA | NA | NA | NA | NA | NA | NA | 6.99 |
| Oxidation-Reduction Potential | | | NA | NA | NA | NA | NA | NA | NA | NA | NA | -201.9 |

ES = Enforcement Standards
PAL=Preventive Action Limit
NA=Not Analyzed
X=Not Detected

| | |
|---|---|
| **BOLD** | Exceeds Enforcement Standard |
| **BOLD** | Exceeds Preventive Action Limit |

**Table 2c**
**Groundwater Analytical Results Summary**
**Catawba Oil**
**W9241 U.S. Highway 8**
**Catawba, WI**

| | | | Sample Date | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| **PARAMETER** | **ES** | **PAL** | *2/9/1999* | *5/11/1999* | *3/14/2000* | *6/1/2000* | *8/31/2000* | *11/2/2000* | *11/13/2003* | *2/12/2004* | *5/24/2004* | *8/19/2004* |
| GRO (mg/L) | | | 2,900 | 2,400 | 459 | 266 | 331 | 260 | NA | NA | NA | NA |
| DRO (mg/L) | | | 0.65 | NA | NA | NA | NA | NA | NA | NA | NA | NA |
| **Detected VOC's (ug/L)** | | | | | | | | | | | | |
| Benzene | 5 | 0.5 | **1,900** | **1,300** | **458** | **198** | **181** | **106** | **3.3** | **0.75** | 0.40 | **0.97** |
| Ethylbenzene | 700 | 140 | <6.2 | <2.4 | 0.645 | <5 | <5 | <5 | <0.60 | <0.60 | <0.40 | 0.57 |
| Toluene | 1000 | 200 | 13 | 8.4 | 2.23 | <5 | <5 | <5 | 0.70 | <0.58 | <0.36 | 0.66 |
| Xylenes (Total) | 10000 | 1000 | 7.2 | 14.1 | 0.745 | <5 | <5 | <5 | <1.2 | <0.64 | <0.74 | <0.74 |
| Trimethylbenzenes (Total) | 480 | 96 | <5.0 | <14 | 9.79 | <10 | <10 | <10 | <0.66 | <0.66 | <0.40 | <0.40 |
| MTBE | 60 | 12 | <6.2 | 2.7 | 10 | 6.64 | 1.43 | <0.5 | 1.2 | <0.58 | <0.36 | <0.36 |
| Napthalene | 40 | 8 | <0.22 | <8.9 | 4.32 | <8 | <8 | <8 | <0.58 | <0.58 | <0.47 | <0.47 |
| **Inorganics (mg/L)** | | | | | | | | | | | | |
| Lead | 15 | 1.5 | <1.2 | NA | NA | NA | NA | NA | <1.2 | <0.096 | 0.07 | <1.5 |
| Dissolved Iron | 0.3 | 0.15 | NA | NA | **0.533** | **0.329** | **0.262** | **0.445** | **1.5** | **0.29** | **1.4** | **0.71** |
| Nitrate-Nitrogen | 10 | 2 | NA | NA | <0.05 | <0.05 | 0.544 | <0.05 | 0.12 | 0.083 | <0.063 | <0.063 |
| Sulfate | 250 | 125 | NA | NA | <10 | 11.2 | 12.9 | 15.7 | 8.0 | 8.3 | 8.7 | 8.1 |
| **Field Parameters** | | | | | | | | | | | | |
| Temperature | | | NA | NA | NA | NA | NA | NA | 48.70 | NA | NA | 47.45 |
| Conductivity | | | NA | NA | NA | NA | NA | NA | 1230 | NA | NA | 1512 |
| Dissolved Oxygen | | | NA | NA | 0.76 | 2.87 | 2.35 | 5.22 | 1.22 | NA | NA | 8.84 |
| pH | | | NA | NA | NA | NA | NA | NA | NA | NA | NA | 7.38 |
| Oxidation-Reduction Potential | | | NA | NA | NA | NA | NA | NA | NA | NA | NA | -225.7 |

ES = Enforcement Standards
PAL=Preventive Action Limit
NA=Not Analyzed
X=Not Detected

| | |
|---|---|
| **BOLD** | Exceeds Enforcement Standard |
| **BOLD** | Exceeds Preventive Action Limit |

**Table 2d**
**Groundwater Analytical Results Summary**
**Catawba Oil**
**W9241 U.S. Highway 8**
**Catawba, WI**

| | | | Sample Date | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|
| PARAMETER | ES | PAL | *5/11/1999* | *3/14/2000* | *6/1/2000* | *8/31/2000* | *11/2/2000* | *11/13/2003* | *2/12/2004* | *5/24/2004* | *8/19/2004* |
| GRO (mg/L) | | | <50 | <50 | 56.2 | <50 | <50 | NA | NA | NA | NA |
| DRO (mg/L) | | | NA | NA | NA | NA | NA | NA | NA | NA | NA |
| Detected VOC's (ug/L) | | | | | | | | | | | |
| Benzene | 5 | 0.5 | 0.28 | <0.5 | <0.5 | <0.5 | <0.5 | <0.30 | <0.30 | <0.14 | <0.14 |
| Ethylbenzene | 700 | 140 | 0.38 | <0.5 | <5 | <5 | <5 | <0.60 | <0.60 | <0.40 | <0.40 |
| Toluene | 1000 | 200 | 1.6 | <0.5 | <5 | <5 | <5 | <0.58 | <0.58 | <0.36 | <0.36 |
| Xylenes (Total) | 10000 | 1000 | 1.2 | <0.5 | <5 | <5 | <5 | <1.2 | <1.2 | <0.74 | <0.74 |
| Trimethylbenzenes (Total) | 480 | 96 | 1.4 | <2 | <10 | <10 | <10 | <0.66 | <0.66 | <0.40 | <0.40 |
| MTBE | 60 | 12 | <0.22 | 0.238 | <0.5 | <0.5 | <0.5 | <0.58 | <0.58 | <0.36 | <0.36 |
| Napthalene | 40 | 8 | 1.1 | <2 | <8 | <8 | <8 | <0.58 | <0.58 | <0.47 | <0.47 |
| Inorganics (mg/L) | | | | | | | | | | | |
| Lead | 15 | 1.5 | NA | NA | NA | NA | NA | <1.2 | <0.096 | 0.06 | <1.5 |
| Dissolved Iron | 0.3 | 0.15 | NA | NA | NA | NA | NA | <18 | <18 | 410 | <17 |
| Nitrate-Nitrogen | 10 | 2 | NA | NA | NA | NA | NA | 5.1 | 4.7 | 4.2 | 4.6 |
| Sulfate | 250 | 125 | NA | NA | NA | NA | NA | 31 | 29 | 27 | 28 |
| Field Parameters | | | | | | | | | | | |
| Temperature | | | NA | NA | NA | NA | NA | 50.70 | NA | NA | 50.16 |
| Conductivity | | | NA | NA | NA | NA | NA | 915 | NA | NA | 841 |
| Dissolved Oxygen | | | NA | NA | NA | NA | NA | 2.54 | NA | NA | 8.87 |
| pH | | | NA | NA | NA | NA | NA | NA | NA | NA | 7.65 |
| Oxidation-Reduction Potential | | | NA | NA | NA | NA | NA | NA | NA | NA | -109.8 |

ES = Enforcement Standards
PAL=Preventive Action Limit
NA=Not Analyzed
X=Not Detected

| | |
|---|---|
| **BOLD** | Exceeds Enforcement Standard |
| **BOLD** | Exceeds Preventive Action Limit |

# Table 2e
# Groundwater Analytical Results Summary
# Catawba Oil
# W9241 U.S. Highway 8
# Catawba, WI

| | | | | Sample Date | | | |
|---|---|---|---|---|---|---|---|
| **PARAMETER** | **ES** | **PAL** | *5/11/1999* | *11/13/2003* | *2/12/2004* | *5/24/2004* | *8/19/2004* |
| **GRO (mg/L)** | | | <50 | NA | NA | NA | NA |
| **DRO (mg/L)** | | | NA | NA | NA | NA | NA |
| **Detected VOC's (ug/L)** | | | | | | | |
| Benzene | 5 | 0.5 | <0.26 | <0.30 | <0.30 | <0.14 | <0.14 |
| Ethylbenzene | 700 | 140 | 0.27 | <0.60 | <0.60 | <0.40 | <0.40 |
| Toluene | 1000 | 200 | 1.4 | <0.58 | <0.58 | <0.36 | <0.36 |
| Xylenes (Total) | 10000 | 1000 | 1.4 | <1.2 | <1.2 | <0.74 | <0.74 |
| Trimethylbenzenes (Total) | 480 | 96 | <1.4 | <0.66 | <0.66 | <0.40 | <0.40 |
| MTBE | 60 | 12 | <0.22 | <0.58 | <0.58 | <0.36 | <0.36 |
| Napthalene | 40 | 8 | <0.89 | <0.58 | <0.58 | <0.47 | <0.47 |
| **Inorganics (mg/L)** | | | | | | | |
| Lead | 15 | 1.5 | NA | <1.2 | <0.096 | 0.06 | <1.5 |
| Dissolved Iron | 0.3 | 0.15 | NA | <0.018 | <0.018 | **0.27** | <0.017 |
| Nitrate-Nitrogen | 10 | 2 | NA | 0.12 | 0.2 | 0.13 | 0.16 |
| Sulfate | 250 | 125 | NA | 26 | 21 | 23 | 21 |
| **Field Parameters** | | | | | | | |
| Temperature | | | NA | 48.11 | NA | NA | 47.36 |
| Conductivity | | | NA | 327 | NA | NA | 294 |
| Dissolved Oxygen | | | NA | 7.63 | NA | NA | 9.65 |
| pH | | | NA | NA | NA | NA | 7.86 |
| Oxidation-Reduction Potential | | | NA | NA | NA | NA | -89.9 |

ES = Enforcement Standards

PAL=Preventive Action Limit

NA=Not Analyzed

X=Not Detected

**BOLD** Exceeds Enforcement Standard

**BOLD** Exceeds Preventive Action Limit

**Table 2f**
**Groundwater Analytical Results Summary**
**Catawba Oil**
**W9241 U.S. Highway 8**
**Catawba, WI**

| | | | Sample Date | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|
| PARAMETER | ES | PAL | *5/11/1999* | *3/14/2000* | *6/1/2000* | *8/31/2000* | *11/2/2000* | *11/13/2003* | *2/12/2004* | *5/24/2004* | *8/19/2004* |
| GRO (mg/L) | | | <50 | <50 | <50 | <50 | <50 | NA | NA | NA | NA |
| DRO (mg/L) | | | NA | NA | NA | NA | NA | NA | NA | NA | NA |
| Detected VOC's (ug/L) | | | | | | | | | | | |
| Benzene | 5 | 0.5 | <0.26 | <0.5 | <0.5 | <0.5 | <0.5 | <0.30 | <0.30 | <0.14 | <0.14 |
| Ethylbenzene | 700 | 140 | 0.28 | <0.5 | <5 | <5 | <5 | <0.60 | <0.60 | <0.40 | <0.40 |
| Toluene | 1000 | 200 | 1.4 | <0.5 | <5 | <5 | <5 | <0.58 | <0.58 | <0.36 | <0.36 |
| Xylenes (Total) | 10000 | 1000 | 1.37 | <0.5 | <5 | <5 | <5 | <1.2 | <1.2 | <0.74 | <0.74 |
| Trimethylbenzenes (Total) | 480 | 96 | <1.40 | <2 | <10 | <10 | <10 | <0.66 | <0.66 | <0.40 | <0.40 |
| MTBE | 60 | 12 | <0.22 | 0.216 | <0.5 | <0.5 | <0.5 | <0.58 | <0.58 | <0.36 | <0.36 |
| Napthalene | 40 | 8 | <0.89 | <2 | <8 | <8 | <8 | <0.58 | <0.58 | <0.47 | <0.47 |
| Inorganics (mg/L) | | | | | | | | | | | |
| Lead | 15 | 1.5 | NA | NA | NA | NA | NA | <1.2 | <0.096 | 0.07 | <1.5 |
| Dissolved Iron | 0.3 | 0.15 | NA | NA | NA | NA | NA | <0.018 | <0.018 | 0.15 | <0.017 |
| Nitrate-Nitrogen | 10 | 2 | NA | NA | NA | NA | NA | 0.67 | 1.2 | 0.54 | 0.86 |
| Sulfate | 250 | 125 | NA | NA | NA | NA | NA | 9.0 | 8.3 | 8.2 | 7.7 |
| Field Parameters | | | | | | | | | | | |
| Temperature | | | NA | NA | NA | NA | NA | 48.11 | NA | NA | 47.38 |
| Conductivity | | | NA | NA | NA | NA | NA | 327 | NA | NA | 186 |
| Dissolved Oxygen | | | NA | NA | NA | NA | NA | 7.63 | NA | NA | 9.83 |
| pH | | | NA | NA | NA | NA | NA | NA | NA | NA | 7.93 |
| Oxidation-Reduction Potential | | | NA | NA | NA | NA | NA | NA | NA | NA | -150.7 |

ES = Enforcement Standards
PAL=Preventive Action Limit
NA=Not Analyzed
X=Not Detected

| | |
|---|---|
| **BOLD** | Exceeds Enforcement Standard |
| **BOLD** | Exceeds Preventive Action Limit |

**Table 2g**
**Groundwater Analytical Results Summary**
**Catawba Oil**
**W9241 U.S. Highway 8**
**Catawba, WI**

| | | | | | | | Sample Date | | | |
|---|---|---|---|---|---|---|---|---|---|---|
| **PARAMETER** | **ES** | **PAL** | *3/14/2000* | *6/1/2000* | *8/31/2000* | *11/2/2000* | *11/13/2003* | *2/12/2004* | *5/24/2004* | *8/19/2004* |
| **GRO (mg/L)** | | | 19,600 | 44,600 | 38,600 | 48,400 | NA | NA | NA | NA |
| **DRO (mg/L)** | | | NA | NA | NA | NA | NA | NA | NA | NA |
| **Detected VOC's (ug/L)** | | | | | | | | | | |
| Benzene | 5 | 0.5 | **7,190** | **11,800** | **10,700** | **12,100** | **61** | **15** | **8.6** | **8.2** |
| Ethylbenzene | 700 | 140 | **314** | **769** | **953** | **1,290** | 29 | 6.8 | 2.3 | 2.3 |
| Toluene | 1000 | 200 | **6,330** | **16,800** | **8,190** | **14,200** | 9.6 | 9.1 | 4.8 | 3.8 |
| Xylenes (Total) | 10000 | 1000 | **2,840** | **6,700** | **8,930** | **8,670** | 15.4 | 15.1 | 6.8 | 3.9 |
| Trimethylbenzenes (Total) | 480 | 96 | 317 | **1,196** | **10,203** | **1,024** | 23.1 | 12.6 | 3.8 | 1.72 |
| MTBE | 60 | 12 | <40 | 147 | **198** | **222** | **40** | **33** | **26** | **13** |
| Napthalene | 40 | 8 | <400 | 132 | 142 | <200 | 31 | 21 | 7.9 | 12 |
| **Inorganics (mg/L)** | | | | | | | | | | |
| Lead | 15 | 1.5 | NA | NA | NA | NA | <1.2 | NA | 0.22 | <1.5 |
| Dissolved Iron | 0.3 | 0.15 | NA | NA | 7.34 | 14.1 | 30000 | NA | 18000 | 3400 |
| Nitrate-Nitrogen | 10 | 2 | NA | NA | 0.05 | <0.05 | <0.047 | NA | <0.063 | <0.063 |
| Sulfate | 250 | 125 | NA | NA | 10.3 | 19.9 | 18 | NA | 32 | 36 |
| **Field Parameters** | | | | | | | | | | |
| Temperature | | | NA | NA | NA | NA | 51.13 | NA | NA | 49.11 |
| Conductivity | | | NA | NA | NA | NA | 2780 | NA | NA | 3340 |
| Dissolved Oxygen | | | NA | NA | 1.37 | NA | 5.75 | NA | NA | 8.62 |
| pH | | | NA | NA | NA | NA | NA | NA | NA | 7.5 |
| Oxidation-Reduction Potential | | | NA | NA | NA | NA | NA | NA | NA | -219.7 |

ES = Enforcement Standards
PAL=Preventive Action Limit
NA=Not Analyzed
X=Not Detected

| | |
|---|---|
| **BOLD** | Exceeds Enforcement Standard |
| **BOLD** | Exceeds Preventive Action Limit |

# Table 2h
# Groundwater Analytical Results Summary
# Catawba Oil
# W9241 U.S. Highway 8
# Catawba, WI

| | | | Sample Date | | | |
|---|---|---|---|---|---|---|
| **PARAMETER** | **ES** | **PAL** | *11/13/2003* | *2/12/2004* | *5/24/2004* | *8/19/2004* |
| **Detected VOC's (ug/L)** | | | | | | |
| Benzene | 5 | 0.5 | **30** | **3.9** | <0.14 | <0.14 |
| Ethylbenzene | 700 | 140 | <0.54 | 0.94 | <0.40 | <0.40 |
| Toluene | 1000 | 200 | 2.5 | <0.58 | <0.36 | <0.36 |
| Xylenes (Total) | 10000 | 1000 | 0.83 | 5.2 | <0.74 | <0.74 |
| Trimethylbenzenes (Total) | 480 | 96 | <0.97 | <0.66 | <0.40 | <0.40 |
| MTBE | 60 | 12 | <0.61 | <0.58 | <0.36 | <0.36 |
| Napthalene | 40 | 8 | 1.1 | <0.58 | <0.47 | <0.47 |
| Isopropylbenzene | | | 11 | NA | NA | NA |
| **Inorganics (mg/L)** | | | | | | |
| Lead | 15 | 1.5 | <1.2 | NA | 0.19 | <1.5 |
| Dissolved Iron | 0.3 | 0.15 | <18 | NA | 180 | <17 |
| Nitrate-Nitrogen | 10 | 2 | 0.096 | NA | 4.6 | 2.7 |
| Sulfate | 250 | 125 | 33 | NA | 40 | 42 |
| **Field Parameters** | | | | | | |
| Temperature | | | NA | NA | NA | 46.58 |
| Conductivity | | | NA | NA | NA | 252 |
| Dissolved Oxygen | | | NA | NA | NA | 7.5 |
| pH | | | NA | NA | NA | 7.55 |
| Oxidation-Reduction Potential | | | NA | NA | NA | -219.7 |

ES = Enforcement Standards
PAL=Preventive Action Limit
NA=Not Analyzed
X=Not Detected

| | |
|---|---|
| **BOLD** | Exceeds Enforcement Standard |
| **BOLD** | Exceeds Preventive Action Limit |

# Table 2i
# Groundwater Analytical Results Summary
# Catawba Oil
# W9241 U.S. Highway 8
# Catawba, WI

| | | | |
|---|---|---|---|
| | | | |
| **PARAMETER** | **ES** | **PAL** | *8/19/2004* |
| **Detected VOC's (ug/L)** | | | |
| Benzene | 5 | 0.5 | <0.21 |
| Ethylbenzene | 700 | 140 | <0.30 |
| Toluene | 1000 | 200 | <0.22 |
| Xylenes (Total) | 10000 | 1000 | <1.0 |
| Trimethylbenzenes (Total) | 480 | 96 | <0.14 |
| MTBE | 60 | 12 | <0.18 |
| Napthalene | 40 | 8 | <0.20 |
| Isopropylbenzene | | | <0.13 |
| n-Propylbenzene | | | <0.26 |
| Methylene Chloride | 5 | 0.5 | **2.1** |
| Dichlorodifluormethane | | | <0.21 |
| 1,2-Dichloroethane | 5 | 0.5 | <0.17 |

ES = Enforcement Standards

PAL=Preventive Action Limit

NA=Not Analyzed

X=Not Detected

**BOLD** Exceeds Enforcement Standard

**BOLD** Exceeds Preventive Action Limit

# Table 2j
# Groundwater Analytical Results Summary
# Catawba Oil
# W9241 U.S. Highway 8
# Catawba, WI

| | | | Sample Date | |
|---|---|---|---|---|
| **PARAMETER** | **ES** | **PAL** | *2/12/2004* | *8/19/2004* |
| **Detected VOC's (ug/L)** | | | | |
| Benzene | 5 | 0.5 | <0.21 | <0.21 |
| Ethylbenzene | 700 | 140 | <0.30 | <0.30 |
| Toluene | 1000 | 200 | <0.22 | <0.22 |
| Xylenes (Total) | 10000 | 1000 | <1.0 | <1.0 |
| Trimethylbenzenes (Total) | 480 | 96 | <0.14 | <0.14 |
| MTBE | 60 | 12 | <0.18 | <0.18 |
| Napthalene | 40 | 8 | <0.20 | <0.20 |
| Isopropylbenzene | | | <0.13 | <0.13 |
| n-Propylbenzene | | | <0.26 | <0.26 |
| Trichloroeth(yl)ene | 5 | 0.5 | <0.23 | <0.23 |
| Dichlorodifluormethane | | | <0.21 | <0.21 |
| 1,2-Dichloroethane | 5 | 0.5 | <0.17 | <0.17 |

ES = Enforcement Standards

PAL=Preventive Action Limit

NA=Not Analyzed

X=Not Detected

| | |
|---|---|
| **BOLD** | Exceeds Enforcement Standard |
| **BOLD** | Exceeds Preventive Action Limit |

# Table 2a
# Groundwater Analytical Results Summary
# Catawba Oil
# W9241 U.S. Highway 8
# Catawba, WI

| | | | Sample Date | |
|---|---|---|---|---|
| **PARAMETER** | **ES** | **PAL** | *2/9/1999* | *5/11/1999* |
| **GRO (mg/L)** | | | 12,000 | 8,300 |
| **DRO (mg/L)** | | | 3.6 | NA |
| **Detected VOC's (ug/L)** | | | | |
| Benzene | 5 | 0.5 | **1,400** | **3,700** |
| Ethylbenzene | 700 | 140 | **520** | **170** |
| Toluene | 1000 | 200 | **2,600** | **1,100** |
| Xylenes (Total) | 10000 | 1000 | **2,900** | 580 |
| Trimethylbenzenes (Total) | 480 | 96 | **1,010** | **133** |
| MTBE | 60 | 12 | <5 | 17 |
| Napthalene | 40 | 8 | 22 | <22 |
| **Inorganics (mg/L)** | | | | |
| Lead | 15 | 1.5 | <1.2 | NA |
| Dissolved Iron | 0.3 | 0.15 | NA | NA |
| Nitrate-Nitrogen | 10 | 2 | NA | NA |
| Sulfate | 250 | 125 | NA | NA |
| **Field Parameters** | | | | |
| Temperature | | | NA | NA |
| Conductivity | | | NA | NA |
| Dissolved Oxygen | | | NA | NA |
| pH | | | NA | NA |
| Oxidation-Reduction Potential | | | NA | NA |

ES = Enforcement Standards

PAL=Preventive Action Limit

NA=Not Analyzed

X=Not Detected

**BOLD** Exceeds Enforcement Standard

**BOLD** Exceeds Preventive Action Limit

**Table 1a**
**Pre-Remedial Soil Analytical Results Summary**
**Catawba Oil**
**W9241 U.S. Highway 8**
**Catawba, WI**

| *Date-->* | | | | *8/7/98* | *1/14/99* | *1/14/99* | *1/14/99* | *1/14/99* | *1/14/99* | *1/18/99* | *1/18/99* | *1/18/99* | *1/18/99* | *1/18/99* | *1/18/99* | *1/18/99* | *4/1/99* | *4/1/99* |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| *Sample-->* | | | | *GP-1* | *TB-1* | *TB-1* | *TB-1* | *TB-2* | *TB-2* | *MW-1* | *MW-1* | *MW-1* | *MW-1* | *MW-2* | *MW-3* | *TB-3* | *MW-11* | *MW-13* |
| *Sample Depth--(Feet)>* | | | | *6-8* | *4-6* | *18-20* | *24-26* | *8-10* | *13-15* | *5-6* | *8-10* | *16-18* | *34-35* | *13-15* | *10-12* | *9-11* | *13-15* | *13-15* |
| **Detected PVOC's (ug/kg)** | RCL | Table 1 | Table 2 | | | | | | | | | | | | | | | |
| Benzene | 5.5 | 8,500 | 1,100 | **60,400** | **4,710** | **4,240** | **539** | **3,250** | **293** | **128,000** | **10,500** | **324** | <28 | <27 | <27 | **72** | <25 | <25 |
| Ethylbenzene | 2,900 | 4,600 | NS | **111,000** | **6,440** | **10,900** | 66 | **6,280** | 89 | **162,000** | **9,450** | **81** | <28 | <27 | <27 | <27 | <25 | <25 |
| Toluene | 1,500 | 38,000 | NS | **362,000** | **20,700** | **27,200** | 85 | **20,600** | 739 | **554,000** | **31,500** | **659** | <28 | <27 | <27 | <27 | <25 | <25 |
| Xylenes (Total) | 4,100 | 42,000 | NS | **512,000** | **28,700** | **57,600** | <83 | **32,500** | 478 | **878,000** | **52,100** | **454** | <83 | <81 | <81 | <81 | <25 | <25 |
| Methly tert Butyl Ether | NS | NS | NS | <1,143 | <287 | <272 | <28 | <130 | <27 | <1450 | <680 | <27 | <28 | <27 | <27 | <27 | <25 | <25 |
| 1,2,4-Trimethylbenzene | NS | 83,000 | NS | **201,000** | 14,900 | 26,100 | <28 | 13,000 | 120 | 424,000 | 27,100 | 108 | <28 | <27 | <27 | <27 | <25 | <25 |
| 1,3,5-Trimethylbenzene | NS | 11,000 | NS | **61,500** | 4,710 | 7,720 | <28 | 3,900 | 29 | 132,000 | 11,900 | 32 | <28 | <27 | <27 | <27 | <25 | <25 |
| **GRO (mg/kg)** | 100 | NS | NS | **4,390** | **391** | **467** | <5.5 | **303** | <5.4 | **8,960** | **1,300** | <5.4 | <5.5 | <5.4 | <5.4 | <5.4 | <27 | <27 |
| **DRO (mg/kg)** | 100 | NS | NS | NA | **540** | **120** | <5.5 | 79 | <5.4 | **2,060** | **413** | <5.4 | <5.4 | <5.4 | <5.4 | <5.4 | NA | NA |
| **Lead (mg/kg)** | 50 | NS | NS | NA | 29 | <4.3 | <4.4 | <4.3 | <4.3 | 11 | 10 | <4.3 | <4.4 | 4.4 | <4.3 | <4.3 | NA | NA |

*Notes:*

RCL - NR 720 Soil Residual Contaminant Level
Table 1 - COMM 46 Table 1 Value - Indicates Petroleum Product in Soil Pores
Table 2 - Direct Contact Standard
< - Concentration below listed laboratory detection limit
RCL exceedences are bold
Table 1 Exceedances are outlined in bold
PVOCs - Petroleum Volatile Organic Compounds
PAHs - Polynuclear Aromatic Compounds
GRO - Gasoline Range Organics
DRO - Diesel Range Organics

| |
|---|
| Bold |
| Bold |

# Table 1b
## Soil Excavation Confirmation Soil Sample Results Summary
## Catawba Oil
## W9241 U.S. Highway 8
## Catawba, WI

| | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| *Date-->* | | | | *11/16/99* | *11/16/99* | *11/16/99* | *11/16/99* | *11/16/99* | *11/16/99* | *11/16/99* | *11/16/99* | *11/16/99* |
| *Sample-->* | | | | *LF-1** | *LF-2** | *S-1* | *S-2* | *S-3* | *S-4* | *S-5* | *S-6* | *S-7* |
| *Sample Depth--(Feet)>* | | | | *16-18* | *20-22* | *26-28* | *7-9* | *18-20* | *9-11* | *17-19* | *17-19* | *17-19* |
| **Detected PVOC's (ug/kg)** | RCL | Table 1 | Table 2 | | | | | | | | | |
| Benzene | 5.5 | 8,500 | 1,100 | **140,000** | **130,000** | **82** | **61** | **1,600** | **89** | **68** | **49** | **64** |
| Ethylbenzene | 2,900 | 4,600 | NS | 300,000 | 250,000 | <25 | <25 | 180 | 28 | <25 | <25 | 65 |
| Toluene | 1,500 | 38,000 | NS | 1,100,000 | 990,000 | <25 | <25 | 69 | 200 | 130 | 98 | 380 |
| Xylenes (Total) | 4,100 | 42,000 | NS | 1,660,000 | 1,380,000 | <50 | <50 | 210 | 149 | 56 | 45 | 350 |
| Methly tert Butyl Ether | NS | NS | NS | 35,000 | 35,000 | <25 | <25 | <25 | <25 | <25 | <25 | <25 |
| 1,2,4-Trimethylbenzene | NS | 83,000 | NS | 640,000 | 560,000 | <25 | <25 | 130 | 48 | <25 | <25 | 130 |
| 1,3,5-Trimethylbenzene | NS | 11,000 | NS | 210,000 | 180,000 | <25 | <25 | 51 | <25 | <25 | <25 | 38 |
| **GRO (mg/kg)** | 100 | NS | NS | 12,000 | 11,000 | <2.8 | <2.7 | 5.1 | <2.7 | <2.8 | <2.7 | 2.8 |
| **DRO (mg/kg)** | 100 | NS | NS | NA | NA | <4.1 | <4.0 | <4.3 | <3.9 | <3.9 | <4.2 | <4.3 |
| **Lead (mg/kg)** | 50 | NS | NS | NA | NA | 1.7 | 2.1 | 5.0 | 1.9 | **900** | 2.4 | 1.9 |

*Notes:*

*Samples LF-1 and LF-2 were collected as representative of removed soil for disposal documentation
RCL - NR 720 Soil Residual Contaminant Level
Table 1 - COMM 46 Table 1 Value - Indicates Petroleum Product in Soil Pores
Table 2 - Direct Contact Standard
< - Concentration below listed laboratory detection limit
RCL exceedences are bold
Table 1 Exceedances are outlined in bold
PVOCs - Petroleum Volatile Organic Compounds
PAHs - Polynuclear Aromatic Compounds
GRO - Gasoline Range Organics
DRO - Diesel Range Organics

# Table 1c
## Post Remedial Soil Analytical Results Summary
## Catawba Oil
## W9241 U.S. Highway 8
## Catawba, WI

| | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|
| *Date-->* | | | | *1/27/00* | *1/27/00* | *1/27/00* | *1/27/00* | *1/27/00* | *1/27/00* | *1/27/00* |
| *Sample-->* | | | | *MW-21* | *MW-21* | *MW-21* | *TB-11* | *TB-1* | *TB-12* | *TB -12* |
| *Sample Depth--(Feet)>* | | | | *16-18* | *20-22* | *26-28* | *7-9* | *18-20* | *9-11* | *17-19* |
| **Detected PVOC's (ug/kg)** | RCL | Table 1 | Table 2 | | | | | | | |
| Benzene | 5.5 | 8,500 | 1,100 | **360** | **340** | **690** | **56** | **130** | <25 | <25 |
| Ethylbenzene | 2,900 | 4,600 | NS | <25 | 99 | <25 | 100 | 52 | <25 | <25 |
| Toluene | 1,500 | 38,000 | NS | 530 | 910 | 71 | 200 | 120 | <25 | <25 |
| Xylenes (Total) | 4,100 | 42,000 | NS | 990 | 68 | <25 | 390 | 190 | <25 | <25 |
| Methly tert Butyl Ether | NS | NS | NS | <25 | <25 | <25 | <25 | <25 | <25 | <25 |
| 1,2,4-Trimethylbenzene | NS | 83,000 | NS | 270 | 160 | <25 | 100 | 150 | <25 | <25 |
| 1,3,5-Trimethylbenzene | NS | 11,000 | NS | 99 | 48 | <25 | <25 | <25 | <25 | <25 |
| **GRO (mg/kg)** | 100 | NS | NS | 7.3 | <5.3 | <5.6 | <5.6 | 6.5 | <5.5 | <5.5 |
| **DRO (mg/kg)** | 100 | NS | NS | NA | NA | NA | <5.6 | <5.5 | <5.5 | <5.5 |
| **Lead (mg/kg)** | 50 | NS | NS | NA | NA | NA | NA | NA | NA | NA |

*Notes:*

RCL - NR 720 Soil Residual Contaminant Level
Table 1 - COMM 46 Table 1 Value - Indicates Petroleum Product in Soil Pores
Table 2 - Direct Contact Standard
< - Concentration below listed laboratory detection limit
RCL exceedences are bold
Table 1 Exceedances are outlined in bold
PVOCs - Petroleum Volatile Organic Compounds
PAHs - Polynuclear Aromatic Compounds
GRO - Gasoline Range Organics
DRO - Diesel Range Organics

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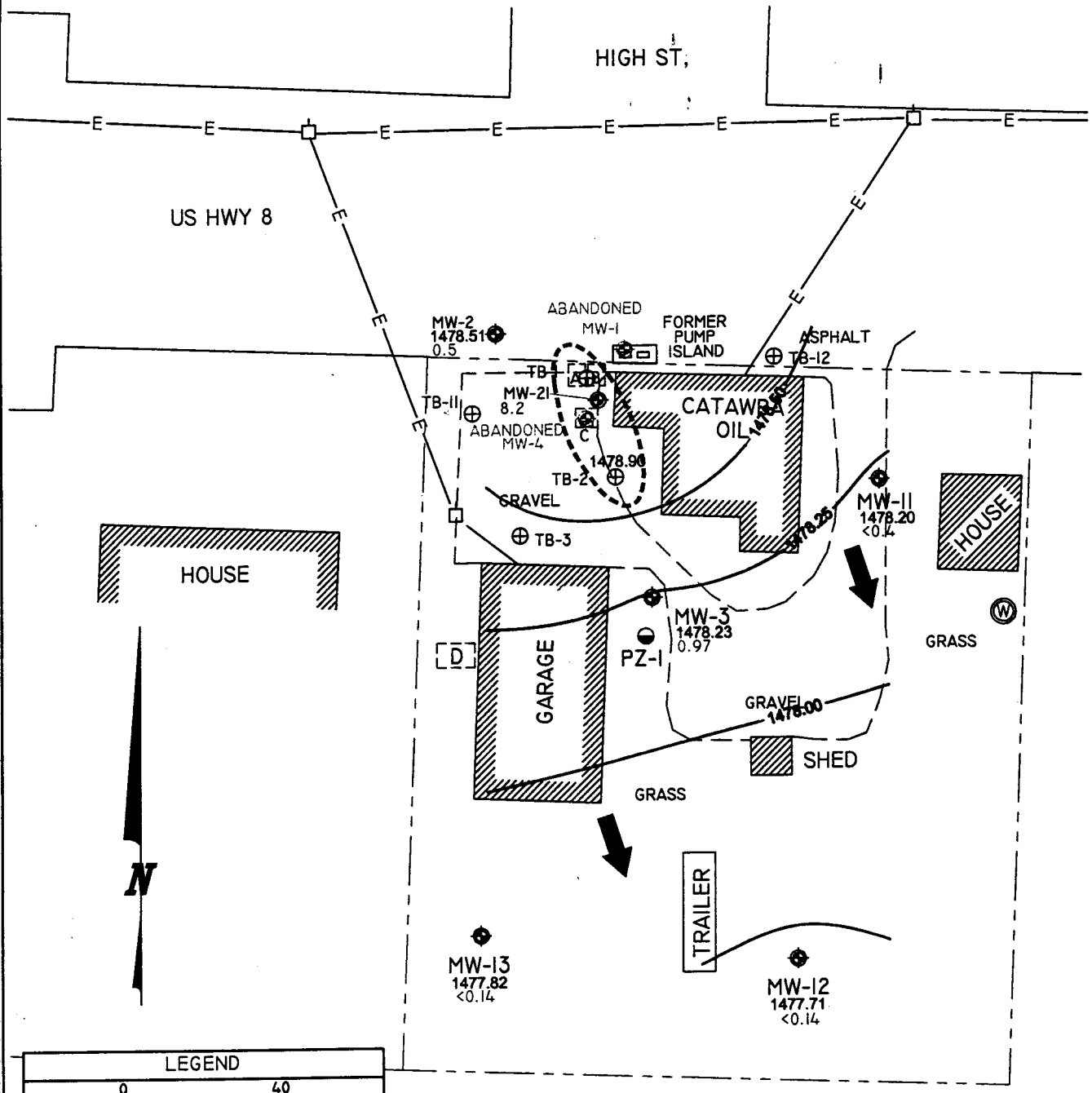


LEGEND

0 40

SCALE: 1" = 40'

- MONITORING WELL
- TEST BORING
- PIEZOMETER
- POTABLE WELL
- UTILITY POLE
- TANK LOCATION
- E — UTILITY LINE
- APPROXIMATE PROPERTY LINE
- GROUNDWATER FLOW ARROW
- <0.14 BENZENE CONCENTRATIONS IN ug/L

- A — FORMER 300 GALLON UNLEADED GASOLINE UST
- B — FORMER 500 GALLON LEADED GASOLINE UST
- C — FORMER 500 GALLON DIESEL FUEL UST
- D — 275 GALLON HEATING OIL AST

ESTIMATED EXTENT OF GROUNDWATER CONTAMINATION EXCEEDING NR 140 ES (BENEZENE) (8/19/04)

INFORMATION PROVIDED BY ENVIROGEN

CATAWBA OIL SITE
W9241 HWY 8
CATAWBA, WISCONSIN 54515

FIGURE 5 : GROUNDWATER CONTOURS AND ESTIMATED EXTENT OF GROUNDWATER CONTAMINATION EXCEEDING NR 140 ES (BENEZENE) (8/19/04)

| PROJECT NO. | DRAWN BY: | DATE: |
|---|---|---|
| 3077 | TJR | 6/29/05 |

DRAWING FILE: J:\DRAFTING\3077_CAT\DWG\3077_GW81904.DWG LAYOUT: MODEL PLOTTED: JUL 06, 2005 - 1:56PM PLOTTED BY: TMR

# Table 3
## Depth to Groundwater and Groundwater Elevations
## Catawba Oil
## W9241 U.S. Highway 8
## Catawba, WI

| | MW-1 | MW-2 | MW-3 | MW-4 | MW-11 | MW-12 | MW-13 | MW-21 | PZ-1 |
|---|---|---|---|---|---|---|---|---|---|
| Ground Surface Elevation | | | | | | | | | |
| Top of Casing Elevation | 1501.12 | 1501.46 | 1497.94 | 1499.82 | 1497.70 | 1495.82 | 1496.61 | 1500.93 | 1498.36 |

Depth to Water (feet)

| | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|
| 2/9/1999 | 24.75 | 25.17 | 22.09 | 23.62 | NI | NI | NI | NI | NI |
| 5/11/1999 | 24.83 | 25.40 | 21.86 | 23.60 | 21.74 | 19.80 | 20.37 | NI | NI |
| 3/14/2000 | Abandoned | 24.87 | 21.62 | Abandoned | 21.48 | 19.71 | 20.39 | 24.00 | NI |
| 6/1/2000 | Abandoned | 24.63 | 21.25 | Abandoned | 20.95 | 19.65 | 19.67 | 24.38 | NI |
| 8/31/2000 | Abandoned | 22.85 | 19.29 | Abandoned | 19.19 | 17.41 | 18.12 | 22.14 | NI |
| 11/2/2000 | Abandoned | 23.11 | 19.95 | Abandoned | 19.74 | 18.27 | 18.99 | 22.54 | NI |
| 11/12/2003 | Abandoned | 22.96 | 20.04 | Abandoned | 19.70 | 18.14 | 18.85 | 22.48 | 20.11 |
| 2/12/2004 | Abandoned | 24.43 | 21.13 | Abandoned | 21.11 | 19.47 | 20.12 | 23.49 | 21.11 |
| 5/24/2004 | Abandoned | 24.21 | 20.33 | Abandoned | 20.29 | 18.09 | 18.79 | 23.10 | 20.22 |
| 8/19/2004 | Abandoned | 22.95 | 19.71 | Abandoned | 19.50 | 18.11 | 18.79 | 22.03 | 19.45 |

Ground Water Elevation

| | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|
| 2/9/1999 | 1476.37 | 1476.29 | 1475.85 | 1476.20 | NI | NI | NI | NI | NI |
| 5/11/1999 | 1476.29 | 1476.06 | 1476.08 | 1476.22 | 1475.96 | 1476.02 | 1476.24 | NI | NI |
| 3/14/2000 | Abandoned | 1476.59 | 1476.32 | Abandoned | 1476.22 | 1476.11 | 1476.22 | 1476.93 | NI |
| 6/1/2000 | Abandoned | 1476.83 | 1476.69 | Abandoned | 1476.75 | 1476.17 | 1476.94 | 1476.55 | NI |
| 8/31/2000 | Abandoned | 1478.61 | 1478.65 | Abandoned | 1478.51 | 1478.41 | 1478.49 | 1478.79 | NI |
| 11/2/2000 | Abandoned | 1478.35 | 1477.99 | Abandoned | 1477.96 | 1477.55 | 1477.62 | 1478.39 | NI |
| 11/12/2003 | Abandoned | 1478.50 | 1477.90 | Abandoned | 1478.00 | 1477.68 | 1477.76 | 1478.45 | 1478.25 |
| 2/12/2004 | Abandoned | 1477.03 | 1476.81 | Abandoned | 1476.59 | 1476.35 | 1476.49 | 1477.44 | 1477.25 |
| 5/24/2004 | Abandoned | 1477.25 | 1477.61 | Abandoned | 1477.41 | 1477.73 | 1477.82 | 1477.83 | 1478.14 |
| 8/19/2004 | Abandoned | 1478.51 | 1478.23 | Abandoned | 1478.20 | 1477.71 | 1477.82 | 1478.90 | 1478.91 |

NM = Not Measured
NI = Not Installed

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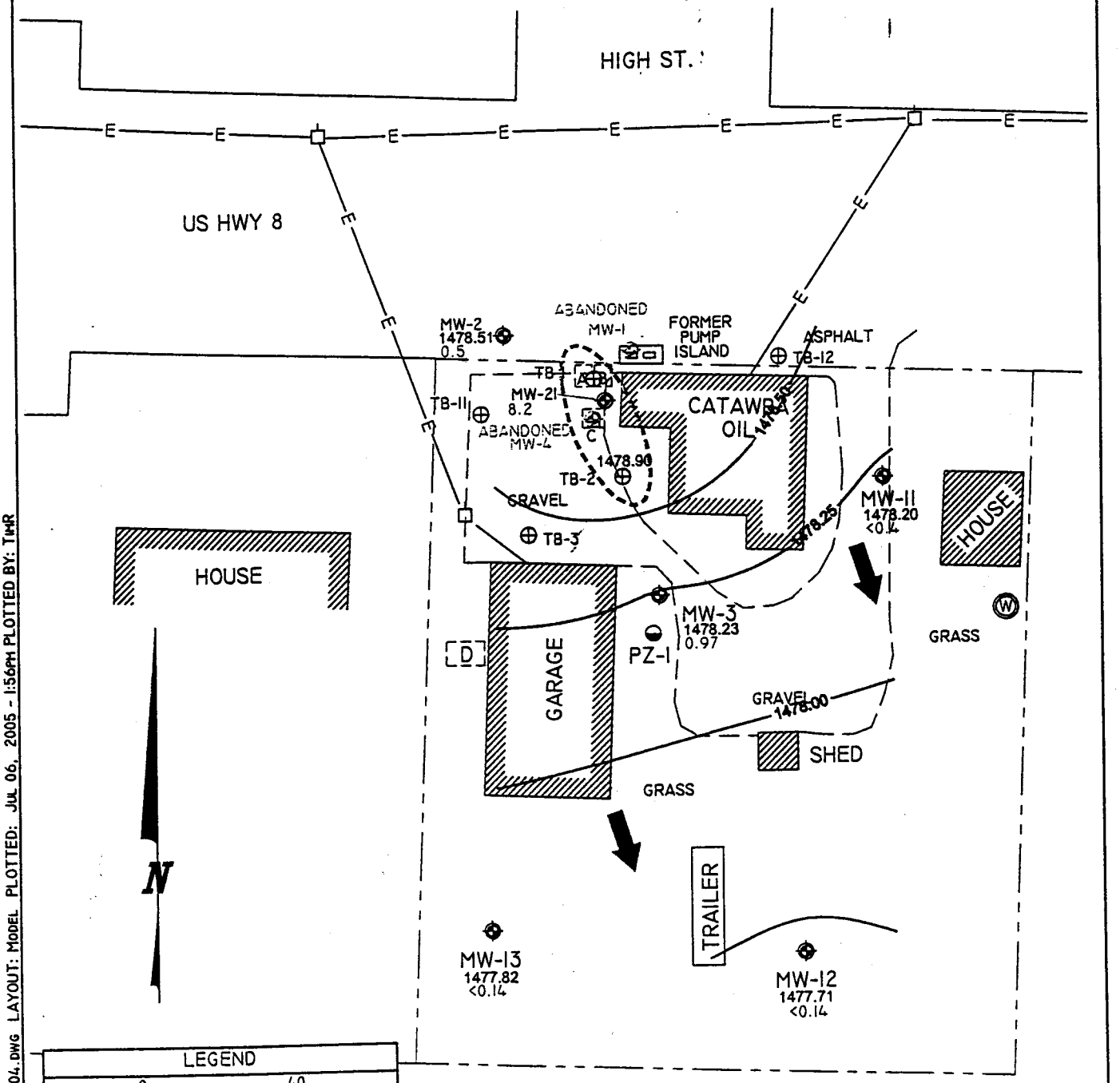


LEGEND

0 40

SCALE: 1" = 40'

- MONITORING WELL
- TEST BORING
- PIEZOMETER
- POTABLE WELL
- UTILITY POLE
- TANK LOCATION
- E — UTILITY LINE
- APPROXIMATE PROPERTY LINE
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- D — 275 GALLON HEATING OIL AST
- ESTIMATED EXTENT OF GROUNDWATER CONTAMINATION EXCEEDING NR 140 ES (BENEZENE) (8/19/04)

INFORMATION PROVIDED BY ENVIRONSEN

CATAWBA OIL SITE
W9241 HWY 8
CATAWBA, WISCONSIN 54515

FIGURE 5 : GROUNDWATER CONTOURS AND ESTIMATED EXTENT OF GROUNDWATER CONTAMINATION EXCEEDING NR 140 ES (BENEZENE) (8/19/04)

| PROJECT NO. | DRAWN BY: | DATE: |
|---|---|---|
| 3077 | TJR | 6/29/05 |

DRAWING FILE: J:\DRAFTING\3077_CAT\DWG\3077_GW81904.DWG LAYOUT: MODEL PLOTTED: JUL 06, 2005 - 1:56PM PLOTTED BY: TJMR

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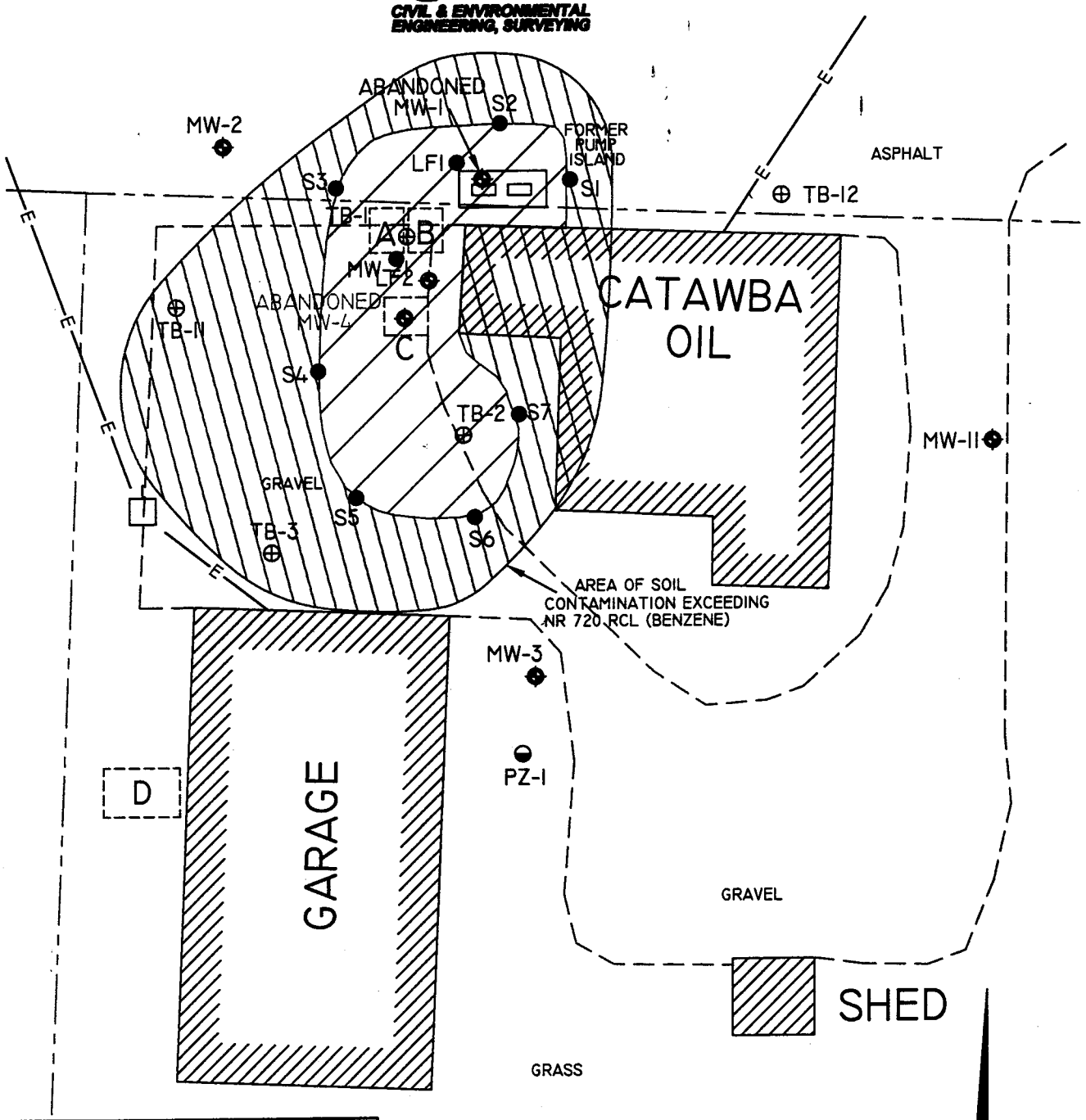
CIVIL & ENVIRONMENTAL ENGINEERING, SURVEYING




LEGEND

0 40

SCALE: 1" = 40'

- MONITORING WELL
- TEST BORING
- PIEZOMETER
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A — FORMER 300 GALLON UNLEADED GASOLINE UST

B — FORMER 500 GALLON LEADED GASOLINE UST

C — FORMER 500 GALLON DIESEL FUEL UST

D — 275 GALLON HEATING OIL AST

AREA OF EXCAVATION

AREA OF SOIL CONTAMINATION EXCEEDING NR 720 RCL (BENZENE)

INFORMATION PROVIDED BY ENVIROGEN

CATAWBA OIL SITE
W9241 HWY 8
CATAWBA, WISCONSIN 54515

FIGURE 4 : AREA OF EXCAVATION & RESIDUAL SOIL CONTAMINATION

| PROJECT NO. | DRAWN BY: | DATE: |
|---|---|---|
| 3077 | TJR | 6/29/05 |

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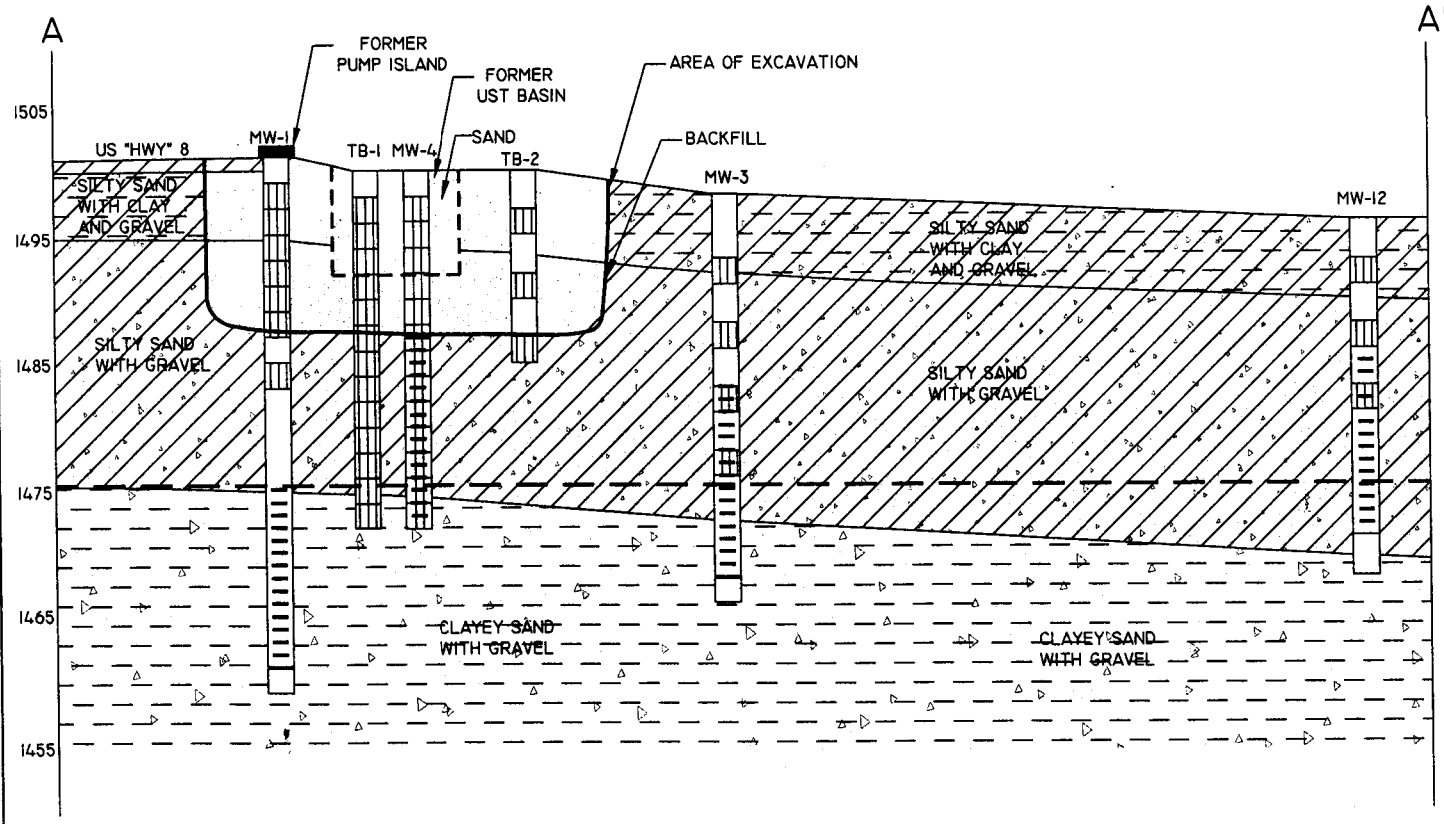


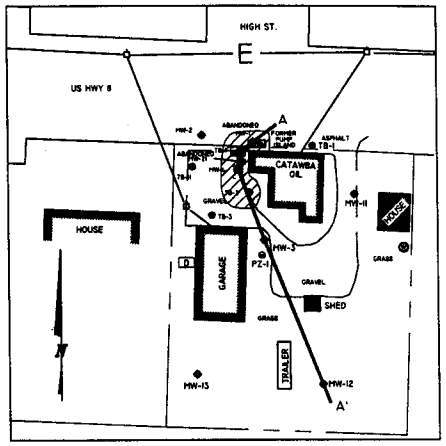


SAMPLE INTERVAL

SCREENED INTERVAL

GROUNDWATER ELEVATION (05-11-99)

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CATAWBA OIL SITE
W9241 HWY 8
CATAWBA, WISCONSIN 54515

FIGURE 3 : CROSS SECTION A–A'

| PROJECT No. | DRAWN BY: | DATE: |
|---|---|---|
| 3077 | TJR/JSD | 06/30/05 |

DRAWING FILE: J:\DRAFTING\3077_CAT\DWG\3077_X-SEC.DWG LAYOUT: MODEL PLOTTED: JUL 27, 2005 - 2:42PM PLOTTED BY: TJWR

REC'D AUG 0 2 2005 MR

July 27, 2005

Re: Catawba Oil
WDNR BRRTS #03-51-197055
Commerce # 54515-9999-41
W9241 Highway 8
Catawba, WI

**A parcel of land in the Northwest Quarter of the Northwest Quarter of Section Eight (8), Township Thirty-five (35) North, Range One (1) West, Price County, Wisconsin described as follows: Commencing 754 3/12 feet east of the section corner of Sections 5, 6, 7 and 8, 35-1 West, and running thence south 214 6/12 feet, thence east 50 feet, thence north 214 6/12 feet and thence west 50 feet to the place of beginning.**

**And**

**Commencing at the Northwest corner of the Northwest Quarter (NW ¼) of Section Eight (8), Township Thirty-five (35) North, Range One (1) West, thence East on the Section line 804.25 feet to a point, this being the place of beginning thence South 214.5 feet to a point, thence East 56 feet to a point, thence North 214.5 feet to the North line of said Section Eight (8), thence West 56 feet to the point of beginning.**

I have reviewed the above referenced legal description, and hereby certify that it is correct for the Catawba Oil site.

Jerome A Retzlaff Catawba Oil. Date 8/1/05
Jerome A. Retzlaff, Catawba Oil

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7-28-05

Transportation • Municipal • Site Development • GPS
Remediation • Environmental Assessments • Emergency Response • Safety

July 27, 2005

Mary Macholl
Catawba Town Clerk
N3606 County Road O
Catawba, WI 54515

Subject: Catawba Oil
W9241 Highway 8
Catawba, WI 54515
**WDNR ID #03-51-197055**
**Commerce # 54515-9999-41**

Dear Ms. Macholl:

This letter and enclosed information is to serve as notice that contaminated soil and groundwater originating from the Catawba Oil property is present beneath the Gruber Avenue/Highway 8 right-of-way at depths from approximately 4-25 feet below grade. The approximate limits of saturated soil/groundwater contamination are shown on the enclosed figures. After a period of groundwater monitoring, and using the standards established in NR 700 and the risk criteria of NR 746, it has been established by REI that this site does not pose a significant risk to the environment and human health and no further action is necessary. Before the Wisconsin Department of Natural Resources will grant closure, REI must acknowledge that the Town of Catawba is aware of the associated soil and groundwater contamination beneath Gruber Avenue/Highway 8 in the event that disturbance of these soils is necessary. The Wisconsin Department of Transportation has also been notified.

Thank you for your assistance with this project. Please call me with questions or comments at (715) 675-9784.

Sincerely,
REI

Matthew W. Rahn

Matthew W. Rahn
Environmental Scientist/Project Manager

CC: Jerry Retzlaff, P.O. Box 224, Catawba, WI 54515

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4080 N. 20TH AVENUE • WAUSAU, WI 54401 • TOLL FREE: 1.877.734.7745 • TEL: 715.675.9784
FAX: 715.675.4060 • www.REIengineering.com