

**GIS REGISTRY INFORMATION**

**SITE NAME:** Dodge County Coop Site #2 (United Coop)  
**BRRTS #:** 02-14-120630 **FID # (if appropriate):** \_\_\_\_\_  
**COMMERCE # (if appropriate):** 53035-9665-10  
**CLOSURE DATE:** 03/09/2006  
**STREET ADDRESS:** 206 Pleasant Street  
**CITY:** Iron Ridge

**SOURCE PROPERTY GPS COORDINATES (meters in WTM91 projection):** X= 638699 Y= 326152

**CONTAMINATED MEDIA:** Groundwater  Soil  Both

**OFF-SOURCE GW 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 or denial letter issued	X
Copy of most recent deed, including legal description, for all affected properties	X
Certified survey map or relevant portion of the recorded plat map (if referenced in the legal description) for all affected properties	NA
County Parcel ID number, if used for county, for all affected properties	X
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)	X
Tables of Latest Soil Analytical Results (no shading or cross-hatching)	X
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	X
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	X
Geologic cross-sections, if required for SI. (8.5x14" if paper copy)	X
RP certified statement that legal descriptions are complete and accurate	X
Copies of off-source notification letters (if applicable)	NA
Letter informing ROW owner of residual contamination (if applicable)(public, highway or railroad ROW)	NA
Copy of (soil or land use) deed restriction(s) or deed notice if any required as a condition of closure	NA
Copy of any maintenance plan referenced in the deed restriction.	NA



## State of Wisconsin \ DEPARTMENT OF NATURAL RESOURCES

Jim Doyle, Governor  
Scott Hassett, Secretary  
Lloyd L. Eagan, Regional Director

South Central Region Headquarters  
3911 Fish Hatchery Road  
Fitchburg, Wisconsin 53711-5397  
Telephone 608-275-3266  
FAX 608-275-3338  
TTY Access via relay - 711

March 9, 2006

Larry Stensrud  
United Cooperative  
N7160 Raceway Road  
Beaver Dam, WI 53916

**SUBJECT:** Final Case Closure By Closure Committee With Conditions Met  
Dodge County Coop Site #2 (United Cooperative), 206 Pleasant Street,  
Iron Ridge, WI  
WDNR BRRTS # 02-14-120630

Dear Mr. Stensrud:

On June 14, 2005, the South Central 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 June 15, 2005, you were notified that the Closure Committee had granted conditional closure to this case.

On September 15, 2005, November 14, 2005 and January 13, 2006, the Department received correspondence indicating that you have complied with the requirements of closure. The conditions of closure were abandonment of wells and proper disposal of investigative and remedial wastes. 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.

### **FUTURE EXCAVATION OF RESIDUAL CONTAMINATED SOIL**

Residual soil contamination remains in the vicinity of the former pump station, west/southwest of the former petroleum above ground storage tank area on the subject property, as indicated in the information submitted to the Department of Natural Resources. If soil in this location is excavated in the future, the property owner at the time of excavation will be required to sample and analyze the excavated soil to determine whether the contamination still remains. If contamination remains, all current and future owners and occupants of the property need to be aware that excavation of the contaminated soil may pose an inhalation or other direct contact hazard at the time of excavation. **Special precautions may need to be taken during excavation activities to prevent a direct contact health threat to humans.** Based upon the results of sample analysis, the current owner will also have to properly store, treat, or dispose of any excavated materials, in accordance with state and federal laws.

Due to the presence of residual soil and groundwater contamination, 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.

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

The Department appreciates your efforts to restore the environment at this site. If you have any questions regarding this letter, please contact me at (608) 275-3209.

Sincerely,



Denise Nettlesheim  
Hydrogeologist  
Bureau for Remediation & Redevelopment

cc: Andy Ehlert, Shaw Environmental, 111 West Pleasant Street, Suite 105, Milwaukee, WI  
53212-3939  
Case File



## State of Wisconsin \ DEPARTMENT OF NATURAL RESOURCES

Jim Doyle, Governor  
Scott Hassett, Secretary  
Ruthe E. Badger, Regional Director

South Central Region Headquarters  
3911 Fish Hatchery Road  
Fitchburg, Wisconsin 53711-5397  
Telephone 608-275-3266  
FAX 608-275-3338  
TTY Access via relay - 711

June 15, 2005

Larry Stensrud  
United Cooperative  
N7160 Raceway Road  
Beaver Dam, WI 53916

Subject: Conditional Closure Decision with Requirements to Achieve Final Closure  
Dodge County Coop Site #2 (United Cooperative), 206 Pleasant Street,  
Iron Ridge, WI  
WDNR BRRTS # 02-14-120630

Dear Mr. Stensrud:

On June 14, 2005, your third request for closure of the case described above was reviewed by members of the South Central Region Closure Committee. The committee reviews environmental remediation cases for compliance with state rules and statutes to maintain consistency in the closure of these cases. Closure was requested for the petroleum contamination associated with the former aboveground storage tanks (ASTs) that were in use at the subject property.

As indicated in the information submitted to the Department, groundwater petroleum contamination remains on the subject property. Groundwater monitoring data indicate exceedances of ch. NR 140, Wis. Adm. Code, Enforcement Standards. Also, soil petroleum contamination that exceeds ch. NR 720, Wis. Adm. Code, generic residual contaminant levels (RCLs) remains in the vicinity of the former pump station.

After careful review of the closure request, the Closure Committee has determined that the petroleum contamination 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:

### **MONITORING WELL ABANDONMENT**

All monitoring wells and all other boreholes installed during the course of investigation and remediation of the site must be properly abandoned in compliance with ch. NR 141, Wis. Adm. Code. Documentation of well and borehole abandonment must be submitted to me on Form 3300-5B found at [www.dnr.state.wi.us/org/water/dgw/gw/](http://www.dnr.state.wi.us/org/water/dgw/gw/) or provided by the Department of Natural Resources.

### **PURGE WATER, WASTE AND SOIL PILE REMOVAL**

Any remaining purge water, waste and/or soil piles generated as part of site investigation or remediation activities must be removed from the site and disposed of or treated in accordance with Department of Natural Resources' rules. Please send a letter advising me that any remaining waste and/or soil piles have been removed once that work is completed.

Section NR 726.05(10), Wis. Adm. Code, requires that the above conditions must be satisfied within 120 days of receipt of this conditional closure letter. When the above conditions have been satisfied, please submit the required information to me to document that applicable conditions have been met, and your case will be closed. **Due to the presence of groundwater contamination above ch. NR 140, Wis. Adm. Code, Enforcement Standards, the subject property will be listed on the DNR Remediation and Redevelopment GIS Registry of Closed Remediation Sites. In addition, due to the presence of soil contamination above ch. NR 720 generic RCLs, the subject property will be listed on the GIS registry for soil.** 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://maps.dnr.state.wi.us/brrts>.

Residual soil contamination remains in the vicinity of the former pump station, west/southwest of the former AST area on the subject property, as indicated in the information submitted to the Department of Natural Resources. If soil in this location is excavated in the future, the property owner at that time will be required to sample and analyze the excavated soil in order to determine whether the contamination still remains. The owner will also have to properly store, treat, or dispose of any excavated materials, based upon the results of that characterization, and take special precautions during excavation activities to prevent a direct contact threat to humans. All future owners and occupants of this property need to be aware that excavation of the contaminated soil may pose an inhalation or other direct contact hazard at the time of excavation.

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 (608) 275-3209.

Sincerely,



Denise Nettlesheim  
Hydrogeologist  
Bureau for Remediation & Redevelopment

Cc: Andy Ehlert, Shaw Environmental, 111 West Pleasant Street, Suite 105, Milwaukee, WI  
53212-3939  
Case File

682211  
DOCUMENT NO.

VOL. 609 PAGE 567  
STATE TAX ON WISCONSIN FORM 1 - 1982  
WARRANTY DEED

THIS SPACE RESERVED FOR RECORDING DATA

TRANSFER 485502

VOL. 874 PAGE 418

NOV 19 9 35 AM '85

EEB This Deed, made between IRON RIDGE COOPERATIVE ASSOCIATION

Grantor, and DODGE COUNTY COOPERATIVE, a cooperative corporation, organized under the laws of the State of Wisconsin

Witnesseth, That the said Grantor, for a valuable consideration

conveys to Grantee the following described real estate in Dodge/Washington County, State of Wisconsin:

RETURN TO  
Doepke, Hannan & Gilbert, Chfd.  
Beaver Dam, Wisconsin 53916

PARCEL 1: A part of Lot 12 of the Resurvey of the Original Plat of the Village of Iron Ridge, located in the Northeast 1/4 of the Northwest 1/4 of Section 25, Town 11 North, Range 16 East, Village of Iron Ridge, Dodge County, Wisconsin, more particularly described as follows: Commencing at the North 1/2 corner of said Section 25; thence West along the Northerly line of the Northwest 1/4 of said Section, 754.23 feet to the point of beginning; thence South 44 degrees 20 minutes 50 seconds East, along the Westerly right-of-way line of the Chicago, Milwaukee, St. Paul & Pacific Railroad, 462.86 feet; thence West, 596.82 feet; thence North 1 degree 04 minutes 50 seconds West, 331.06 feet to the Northerly line of the Northwest 1/4 of said Section 25; thence East along said line 279.52 feet to the point of beginning. Subject to an easement for ingress and egress, more particularly described as follows: Commencing at the North 1/2 corner of said Section 25; thence West along the North line of the Northwest 1/4 of Section 25, 1033.75 feet; thence South 1 degree 04 minutes 50 seconds East, 25.00 feet to the Southerly right-of-way line of S.T.H. 67; thence East along said Southerly line, 184.00 feet to the point of real beginning; thence continuing East along said Southerly line 55.59 feet; thence South 35 degrees 56 minutes 54 seconds East 377.99 feet; thence West 55.59 feet; thence North 35 degrees 56 minutes 54 seconds West, 377.99 feet to the point of real beginning. (Tax Key No. 61)

(See reverse for Parcels 2 and 3)

This is not homestead property. Grantor does not warrant title as to Parcel 1.

Together with all and singular the hereditaments and appurtenances thereunto belonging; And Grantor warrants that the title is good, indefeasible in fee simple and free and clear of encumbrances except easements and restrictions of record

and will warrant and defend the same.

Dated this 16th day of September 19 85

IRON RIDGE COOPERATIVE ASSOCIATION

Wallace Pusch (SEAL)  
Wallace Pusch - President

Cyril L. Rohde (SEAL)  
Cyril L. Rohde - Secretary

TRANSFER 195.00  
FEE (SEAL)

AUTHENTICATION

Signature(s) Wallace Pusch and Cyril L. Rohde

authenticated this 16 day of September, 19 85

Ervin L. Doepke  
TITLE: MEMBER STATE BAR OF WISCONSIN

(If not authorized by § 706.06, Wis. Stats.)

THIS INSTRUMENT WAS DRAFTED BY

Ervin L. Doepke

Attorney at Law

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

ACKNOWLEDGMENT

STATE OF WISCONSIN

County

Personally came before me this day of 19 the above named

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

Notary Public County, Wis.

My Commission is permanent. (If not, state expiration date: 19 )

485502

VOL 874 PAGE 419

PARCEL 2: That part of the W.  $\frac{1}{4}$  of the N.W.  $\frac{1}{4}$  of Section 20, Township 10 North, Range 18 East, Town of Hartford, Washington County, Wisconsin, and described as follows: Commencing at the W.  $\frac{1}{4}$  corner, Sec. 20-10-18, thence N.  $00^{\circ} 18' 42''$  E. on the West line of the N.W.  $\frac{1}{4}$  of said Section 1121.68 feet; thence S.  $58^{\circ} 32' 10''$  E. on the Northerly R/W of S.T.H. 60 116.86 feet to the point of beginning of this description. Thence N.  $00^{\circ} 18' 42''$  E. 965.59 feet, thence S.  $62^{\circ} 24' 17''$  E. 629.98 feet, thence S.  $00^{\circ} 19' 44''$  W. 798.76 feet, thence N.  $89^{\circ} 41' 10''$  W. 80.00 feet, thence S.  $17^{\circ} 43' 50''$  W 148.00 feet, thence N.  $58^{\circ} 32' 10''$  W. on the Northerly R/W of S.T.H. 60 508.70 feet to the point of beginning. EXCEPTING THEREFROM that portion described as Lot 1 of Certified Survey Map #2471, recorded July 23, 1982 in Volume 13 of Certified Survey Maps, page 153, as Document No. 446162.

PARCEL 3: That part of the West one-half of the Northwest one-quarter (W $\frac{1}{2}$  NW $\frac{1}{4}$ ) of Section Twenty (20), Township Ten (10) North, Range Eighteen (18) East, Town of Hartford, Washington County, Wisconsin, and described as follows: Commencing at the West one-quarter (W $\frac{1}{4}$ ) corner, Section Twenty (20) Township Ten (10) North, Range Eighteen (18) East; thence North 00 degrees 18 minutes 42 seconds East, 1121.68 feet to the point of beginning of this description. Thence continuing North 00 degrees 18 minutes 42 seconds East, 956.72 feet, thence South 62 degrees 24 minutes 17 seconds East, 112.52 feet, thence South 00 degrees 18 minutes 42 seconds West 965.59 feet to the Northerly right of way of State Trunk Highway 60, thence North 58 degrees 32 minutes 10 seconds West, 116.86 feet to the point of beginning.

Document # 682641  
 Received this 3 day of  
Dec 1985 at 1:50 P. M.  
 and recorded in Vol. 609  
 of Records Page 567-568  
Joseph E. Hill  
 REGISTER OF DEEDS, DODGE CO.



Source: USGS Mayville South, Wisconsin 7.5-minute Series (topographic) Quadrangle Map  
 Scale: 1:24,000

**SITE LOCATION**

Iron Ridge Bulk Plant Site  
 210 Pleasant Street  
 Iron Ridge, Wisconsin  
 Project No. 680493



Figure No.  
**1**



TABLE 4

Groundwater Laboratory Analytical Results (VOCs, DRO, GRO, Lead)  
 United Cooperative - Iron Ridge Bulk Plant Site  
 Iron Ridge, Wisconsin

Monitoring Well	Sample Date	Parameters															
		DRO (ppm)	GRO	Lead (ppm)	Benzene	Ethylbenzene	Toluene	Xylenes	1,2,4-TMB	1,3,5-TMB	MTBE	Naphthalene	Isopropylbenzene	n-Propylbenzene	sec-Butylbenzene	p-Isopropyltoluene	n-Butylbenzene
MW-1	09/17/97	8.0	10,000	0.025	340	800	270	3500	1,000	310	<0.70	380	40	130	10	7.2	38
	01/19/98	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	06/16/99	NA	NA	12	320	930	140	2590	1,200	270	<3.2	320	NA	NA	NA	NA	NA
	12/09/99	NA	NA	8.2	270	1,100	120	2460	1,100	240	<3.2	330	NA	NA	NA	NA	NA
	02/21/00	NA	NA	<0.005	164	581	64.9	1030	577	219	40.7	217	NA	NA	NA	NA	NA
	11/16/04	NA	NA	NA	31	430	27	520	400	45	4.0	44	NA	NA	NA	NA	NA
MW-2	09/17/97	0.17	<50	<0.00089	0.56	0.25	0.69	0.52	0.28	<0.29	<0.16	NA	NA	NA	NA	NA	NA
	01/19/98	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	06/16/99	NA	NA	<2.8	<0.27	<0.32	<0.27	<0.67	<0.22	<0.27	<0.32	<0.35	NA	NA	NA	NA	NA
	12/09/99	NA	NA	<2.8	<0.27	<0.32	<0.27	<0.67	<0.22	<0.27	<0.32	<0.35	NA	NA	NA	NA	NA
	02/21/00	NA	NA	<0.005	<0.50	<0.50	<0.50	<0.50	<1.00	<1.00	<0.20	<2.00	NA	NA	NA	NA	NA
	11/16/04	NA	NA	NA	<0.14	<0.40	<0.36	<1.10	<0.39	<0.40	<0.36	<0.023	NA	NA	NA	NA	NA
MW-3	09/17/97	<0.10	<50	<0.00089	<0.13	<0.22	0.27	0.29	<0.80	<0.29	<0.16	NA	NA	NA	NA	NA	NA
	01/19/98	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	06/16/99	NA	NA	<2.8	<0.27	<0.32	<0.27	<0.67	<0.22	<0.27	<0.32	<0.35	NA	NA	NA	NA	NA
	12/09/99	NA	NA	<2.8	<0.27	<0.32	<0.27	<0.67	<0.22	<0.27	<0.32	<0.35	NA	NA	NA	NA	NA
	02/21/00	NA	NA	<0.005	<0.50	<0.50	<0.50	<0.50	<1.00	<1.00	0.399	<2.00	NA	NA	NA	NA	NA
	11/16/04	NA	NA	NA	<0.14	<0.40	<0.36	<1.10	<0.39	<0.40	<0.36	0.029	NA	NA	NA	NA	NA
NR 140 PAL		NS	NS	0.0015	0.5	140	200	1,000	96*		12	8	NS	NS	NS	NS	NS
NR 140 ES		NS	NS	0.015	5	700	1,000	10,000	480*		60	40	NS	NS	NS	NS	NS

(Continued)

Notes:

- Concentrations in ppb unless otherwise noted.
- Bold** indicates an exceedance of the NR 140 ES.
- Italics* indicates an exceedance of the NR 140 PAL.
- PAL: Preventive Action Limit established in NR 140 WAC
- TMB: Trimethylbenzene
- MTBE: Methyl t-butyl ether
- NA: Not analyzed
- NS: No standard
- NR: Natural Resources Chapter of the WAC

- ppm: Parts per million
- ppb: Parts per billion
- ES: Enforcement Standard established in NR 140 WAC
- GRO: Gasoline range organics
- DRO: Diesel range organics
- WAC: Wisconsin Administrative Code

Checked by: \_\_\_\_\_ Approved by: \_\_\_\_\_

TABLE 4  
(Continued)

Groundwater Laboratory Analytical Data  
United Cooperative - Iron Ridge Bulk Plant Site  
Iron Ridge, Wisconsin

Monitoring Well	Sample Date	Parameters															
		DRO (ppm)	GRO	Lead (ppm)	Benzene	Ethylbenzene	Toluene	Xylenes	1,2,4-TMB	1,3,5-TMB	MTBE	Naphthalene	Isopropylbenzene	n-Propylbenzene	sec-Butylbenzene	p-Isopropyltoluene	n-Butylbenzene
MW-4	09/17/97	0.15	<50	<0.00089	0.39	<0.22	0.47	0.31	<0.50	<0.29	<0.16	NA	NA	NA	NA	NA	NA
	01/19/98	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	06/16/99	NA	NA	<2.8	<0.27	<0.32	<0.27	<0.67	<0.22	<0.27	<0.32	<0.35	NA	NA	NA	NA	NA
	12/09/99	NA	NA	<b>8.4</b>	<0.27	<0.32	<0.27	<0.67	<0.22	<0.27	<0.32	<0.35	NA	NA	NA	NA	NA
	02/21/00	NA	NA	<0.005	<0.50	<0.50	<0.50	<0.50	<1.00	<1.00	0.277	<2.00	NA	NA	NA	NA	NA
	11/16/04	NA	NA	NA	<0.14	<0.40	<0.36	<1.10	<0.39	<0.40	<0.36	0.032	NA	NA	NA	NA	NA
MW-5	09/17/97	0.17	<50	<0.00089	<0.13	<0.22	<0.20	<0.23	<0.33	<0.29	<4.0	NA	NA	NA	NA	NA	NA
	01/19/98	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	06/16/99	NA	NA	<1.6	<0.27	<0.32	<0.27	<0.67	<0.22	<0.27	2.2	<0.35	NA	NA	NA	NA	NA
	12/09/99	NA	NA	<2.8	<0.27	<0.32	<0.27	<0.67	<0.22	<0.27	3.5	<0.35	NA	NA	NA	NA	NA
	02/21/00	NA	NA	<0.005	<0.50	<0.50	<0.50	<0.50	<1.00	<1.00	4.3	<2.00	NA	NA	NA	NA	NA
	11/16/04	NA	NA	NA	<0.14	<0.40	<0.36	<1.10	<0.39	<0.40	<0.36	<0.023	NA	NA	NA	NA	NA
MW-10	09/17/97	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	01/19/98	NA	NA	NA	0.39	1.4	1.1	7.1	8.7	2.0	<0.16	NA	NA	NA	NA	NA	NA
	06/16/99	NA	NA	<1.6	<0.27	<0.32	<0.27	<0.67	<0.22	<0.27	<0.32	<0.35	NA	NA	NA	NA	NA
	12/09/99	NA	NA	3.6	<0.27	<0.32	<0.27	<0.67	<0.22	<0.27	<0.32	<0.35	NA	NA	NA	NA	NA
	02/21/00	NA	NA	<0.005	<0.50	<0.50	<0.50	<0.50	<1.00	<1.00	<0.20	<2.00	NA	NA	NA	NA	NA
	11/16/04	NA	NA	NA	<0.14	<0.40	<0.36	<1.10	<0.39	<0.40	<0.36	0.025	NA	NA	NA	NA	NA
NR 140 PAL		NS	NS	0.0015	0.5	140	200	1,000	96*		12	8	NS	NS	NS	NS	NS
NR 140 ES		NS	NS	0.015	5	700	1,000	10,000	480*		60	40	NS	NS	NS	NS	NS

Notes:

Concentrations in ppb unless otherwise noted. Notes:

Concentrations in ppb unless otherwise noted.

**Bold font** indicates an exceedance of the NR 140 ES.

*Italic font* indicates an exceedance of the NR 140 PAL.

PAL: Preventive Action Limit established in NR 140 WAC

TMB: Trimethylbenzene

MTBE: Methyl t-butyl ether

NA: Not analyzed

NS: No standard

NR: Natural Resources Chapter of the WAC

ppm: Parts per million

ppb: Parts per billion

ES: Enforcement Standard established in NR 140 WAC

GRO: Gasoline range organics

DRO: Diesel range organics

WAC: Wisconsin Administrative Code

Checked by: \_\_\_\_\_ Approved by: \_\_\_\_\_

TABLE 5

Groundwater Sample Laboratory Analytical Results (PAHs)  
 United Cooperative - Iron Ridge Bulk Plant Site  
 Iron Ridge, Wisconsin

Sample Location	Date	Acenaphthene	Acenaphthylene	Anthracene	Benzo(a)-anthracene	Benzo(b)-fluoranthene	Benzo(k)-fluoranthene	Benzo(a)-pyrene	Benzo(ghi)-perylene	Chrysene	Dibenzo(a,h)-anthracene	Fluoranthene	Fluorene	Indeno-(1,2,3-cd)pyrene	1-Methylnaphthalene	2-Methylnaphthalene	Naphthalene	Phenanthrene	Pyrene
MW-1	9/17/97	<9.6	<8.9	<0.20	<0.32	<9.6	<0.61	<0.88	<1.1	<0.21	<1.3	<0.60	3.4	<0.57	130	160	450	1.7	<0.64
	11/16/04	<1.9	<1.9	<1.8	<2.0	<1.8	<1.9	<1.8	<2.1	<1.6	<2.2	<1.6	<2.2	<1.7	19	16	44	<2.0	<1.6
MW-2	11/16/04	<0.020	<0.020	<0.018	<0.020	<0.018	<0.019	<0.018	<0.021	<0.017	<0.022	<0.017	<0.022	<0.017	<0.020	<0.023	<0.023	<0.021	<0.016
MW-3	11/16/04	<0.020	<0.020	<0.018	<0.020	<0.018	<0.019	<0.018	<0.021	<0.017	<0.022	0.028	<0.022	<0.017	<0.020	<0.023	0.029	<0.021	0.022
MW-4	11/16/04	<0.019	<0.019	<0.018	<0.020	<0.018	<0.019	<0.018	<0.021	<0.016	<0.022	<0.016	<0.022	<0.017	<0.020	<0.023	0.032	<0.020	<0.016
MW-5	11/16/04	<0.020	<0.020	<0.018	<0.020	<0.018	<0.019	<0.018	<0.021	<0.017	<0.022	<0.017	<0.022	<0.017	<0.020	<0.023	<0.023	<0.021	<0.016
MW-10	11/16/04	<0.019	<0.019	<0.018	<0.020	<0.018	<0.019	<0.018	<0.021	<0.016	<0.022	<0.016	<0.022	<0.017	<0.020	<0.023	0.025	<0.020	<0.016
NR 140 PAL		NS	NS	600	NS	0.02	NS	0.02	NS	0.02	NS	80	80	NS	NS	NS	8	NS	2
NR 140 ES		NS	NS	3,000	NS	0.2	NS	0.2	NS	0.2	NS	400	400	NS	NS	NS	40	NS	10

## Notes:

All results in ppb unless otherwise noted.

**Bold** font indicates an exceedance of NR 140 ES.

*Italic* font indicates an exceedance of NR 140 PAL.

ES: Enforcement standard established in NR 140 of the WAC

PAL: Preventive Action Limit established in NR 140 of the WAC

ppb: Parts per billion

NS: No standard

Checked by: \_\_\_\_\_ Approved by: \_\_\_\_\_

TABLE 1

Soil Sample Laboratory Analytical Results (VOCs, DRO, GRO, Lead)  
 United Cooperative - Iron Ridge Bulk Plant Site  
 Iron Ridge, Wisconsin

Sample Location	Date	Depth (feet bls)	PID Reading (Instrument Units)	GRO (ppm)	DRO (ppm)	Lead (ppm)	Benzene	Ethylbenzene	Toluene	Total Xylenes	1,2,4-TMB	1,3,5-TMB	Isopropylbenzene	P-Isopropyltoluene	Naphthalene	n-Propylbenzene	s-Butylbenzene	n-Butylbenzene	
MW-1	9/15/97	3-5	421	<b>2,800</b>	360	7.8	<u>1,100</u>	<i>32,000</i>	3,700	<i>182,000</i>	<i>100,000</i>	<i>32,000</i>	3,200	1,300	<i>25,000</i>	14,000	3,200	12,000	
		5-7	210	<b>320</b>	12	3.7	<b>96</b>	2,100	210	<b>11,300</b>	8,000	2,500	260	140	1,900	1,200	220	1,000	
MW-2	9/16/97	1-3	0	<3.1	<4.6	10	<25	<25	<25	<50	<25	<25	NA	NA	NA	NA	NA	NA	
		5-7	0	<2.8	<3.5	<3.3	<25	<25	<25	<50	<25	<25	NA	NA	NA	NA	NA	NA	
MW-3	9/16/97	1-3	0	<3.0	<4.9	27	<25	<25	<25	<50	<25	<25	NA	NA	NA	NA	NA	NA	
		5-7	0	<2.9	<4.2	7.0	<25	<25	<25	<50	<25	<25	NA	NA	NA	NA	NA	NA	
MW-4	9/16/97	1-3	0	<2.7	<3.6	<3.3	<25	<25	<25	<50	<25	<25	NA	NA	NA	NA	NA	NA	
		3-5	0	<2.7	<3.2	5.8	<25	<25	<25	<50	<25	<25	NA	NA	NA	NA	NA	NA	
MW-5	9/16/97	1-3	0	<2.7	<3.3	<3.2	<25	<25	<25	<50	<25	<25	NA	NA	NA	NA	NA	NA	
		3-5	0	<2.7	<3.3	4.6	<25	<25	<25	<50	<25	<25	NA	NA	NA	NA	NA	NA	
MW-10	1/19/98	3-5	0	NA	NA	NA	<25	<25	<25	<50	<25	<25	NA	NA	NA	NA	NA	NA	
TB-10	1/19/98	1-3	<1000	NA	NA	NA	<b>230</b>	530	50	<b>1,410</b>	<25	<25	NA	NA	<b>780</b>	NA	NA	NA	
HA-20	11/18/04	3-4.5	226	NA	NA	NA	<25	<25	<25	<75	<25	<25	NA	NA	NA	NA	NA	NA	
GP-21	11/18/04	2-4	8	NA	NA	NA	<25	<25	<25	<75	<25	<25	NA	NA	NA	NA	NA	NA	
GP-22	11/18/04	2-4	7	NA	NA	NA	<25	<25	<25	<75	<25	<25	NA	NA	NA	NA	NA	NA	
GP-23	11/18/04	2-4	14	NA	NA	NA	<25	<25	<25	<75	<25	<25	NA	NA	NA	NA	NA	NA	
GP-24	11/18/04	0-2	7	NA	NA	NA	<25	<25	<25	<75	<25	<25	NA	NA	NA	NA	NA	NA	
GP-24	11/18/04	2-4	12	NA	NA	NA	<25	<25	<25	<75	<25	<25	NA	NA	NA	NA	NA	NA	
GP-25	11/18/04	2-4	7	NA	NA	NA	<25	<25	<25	<75	<25	<25	NA	NA	NA	NA	NA	NA	
NR 720 Generic Soil Cleanup Standard				100	100	50	5.5	2,900	1,500	4,100	NS	NS	NS	NS	NS	NS	NS	NS	
NR 746.06 Table 1 Soil Screening Standard				NS	NS	NS	8,500	4,600	38,000	42,000	83,000	11,000	NS	NS	NS	NS	NS	NS	NS
NR 746.06 Table 2 Direct Contact Soil Standard				NS	NS	NS	1,100	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS

Notes: All results in ppb unless otherwise noted.

**Bold** indicates an exceedance of NR 720 generic soil cleanup standard or WDNR suggested RCL.

*Italics* denote exceedance of NR 746.06 Table 1 Soil Screening Standard.

Underline denotes exceedance of NR 746 Table 2 Soil Screening Standard.

RCL: Residual contaminant level

bls: Below land surface

ppm: Parts per million

ppb: Parts per billion

GP: GeoProbe

DRO: Gasoline range organics

GRO: Diesel range organics

NA: Not analyzed

HA: Hand auger

TMB: Trimethylbenzene

NS: No standard

PID: Photoionization detector

MW: Monitoring well

TB: Test boring

Checked by: \_\_\_\_\_

Approved by: \_\_\_\_\_

TABLE 2

Soil Sample Laboratory Analytical Results (PAHs)  
 United Cooperative - Iron Ridge Bulk Plant Site  
 Iron Ridge, Wisconsin

Sample Location	Date	Depth (feet bls)	Acenaphthene	Acenaphthylene	Anthracene	Benzo(a)anthracene	Benzo(b)fluoranthene	Benzo(k)fluoranthene	Benzo(a)pyrene	Benzo(ghi)perylene	Chrysene	Dibenzo(a,h)anthracene	Fluoranthene	Fluorene	Indeno(1,2,3-cd)pyrene	1-Methylnaphthalene	2-Methylnaphthalene	Naphthalene	Phenanthrene	Pyrene
MW-1	9/15/97	3-5	1,100	<330	<280	<270	<320	<290	<260	<300	<280	<430	<300	1,500	<290	19,000	<b>32,000</b>	<u>16,000</u>	<b>2,900</b>	<300
		5-7	150	<38	<32	<31	<36	<34	<29	<35	<32	<50	<35	230	<34	1,700	2,100	780	360	38
TB-10	1/19/98	1-3	150	<38	<32	<31	<36	<34	<29	<35	<32	<50	<35	230	<34	1,700	2,100	780	360	38
HA-20	11/18/04	3-4.5	<2.0	8.6	<2.7	<16	<13	<14	<13	<6.9	<14	<4.2	<12	4.0	<6.6	6.5	11	51	<7.1	<16
GP-21	11/18/04	2-4	<2.1	<7.3	<2.8	<16	<11	<14	<13	<7.3	<15	<4.4	<12	<1.7	<6.9	<3.0	<4.3	<3.2	<7.4	<16
GP-22	11/18/04	2-4	<2.0	<7.0	<2.7	<16	<13	<14	<13	<7.0	<14	<4.2	<12	<1.7	<6.6	<2.9	<4.1	<3.1	<7.1	<16
GP-23	11/18/04	2-4	<2.0	<7.1	<2.7	<16	<10	<14	<13	<7.1	<15	<4.2	<12	<1.7	<6.8	<2.9	<4.1	<3.1	<7.2	<16
GP-24	11/18/04	0-2	3.4	15	18	<16	11	<14	<13	8.7	24	<4.3	30	10	8.9	19	25	98	44	25
		2-4	<2.0	<7.2	<2.8	<16	<11	<14	<13	<7.1	<15	<4.3	<12	<1.7	<6.8	7.1	15	15	<7.2	<16
GP-25	11/18/04	2-4	<2.0	<7.0	<2.7	<16	<13	<14	<13	<7.0	<14	<4.2	<12	<1.7	<6.7	<2.9	<4.1	<3.1	<7.1	<16
WDNR Suggested Groundwater Pathway			38,000	700	3,000,000	17,000	360,000	870,000	48,000	6,800,000	37,000	38,000	500,000	100,000	680,000	23,000	20,000	400	1,800	8,700,000
WDNR Suggested Non-Industrial Direct Contact Pathway			900,000	18,000	5,000,000	88	88	880	8.8	1,800	8,800	8.8	600,000	600,000	88	1,100,000	600,000	20,000	18,000	500,000
NR 746 Table 1 Soil Screening Standard			NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	2,700	NS	NS

Notes: All results in ppb unless otherwise noted.

**Bold** indicates an exceedance of the WDNR suggested groundwater pathway RCL.

*Italics* denote exceedance of WDNR suggested non-industrial direct contact RCL.

Underline denotes exceedance of NR 746 Table 1 Soil Screening Standard.

RCL: Residual contaminant level

DRO: Gasoline range organics

NS: No standard

bls: Below land surface

GRO: Diesel range organics

PID: Photoionization detector

ppm: Parts per million

NA: Not analyzed

MW: Monitoring well

ppb: Parts per billion

HA: Hand auger

TB: Test boring

GP: GeoProbe

TMB: Trimethylbenzene

WDNR: Wisconsin Department of Natural Resources

Checked by: \_\_\_\_\_

Approved by: \_\_\_\_\_

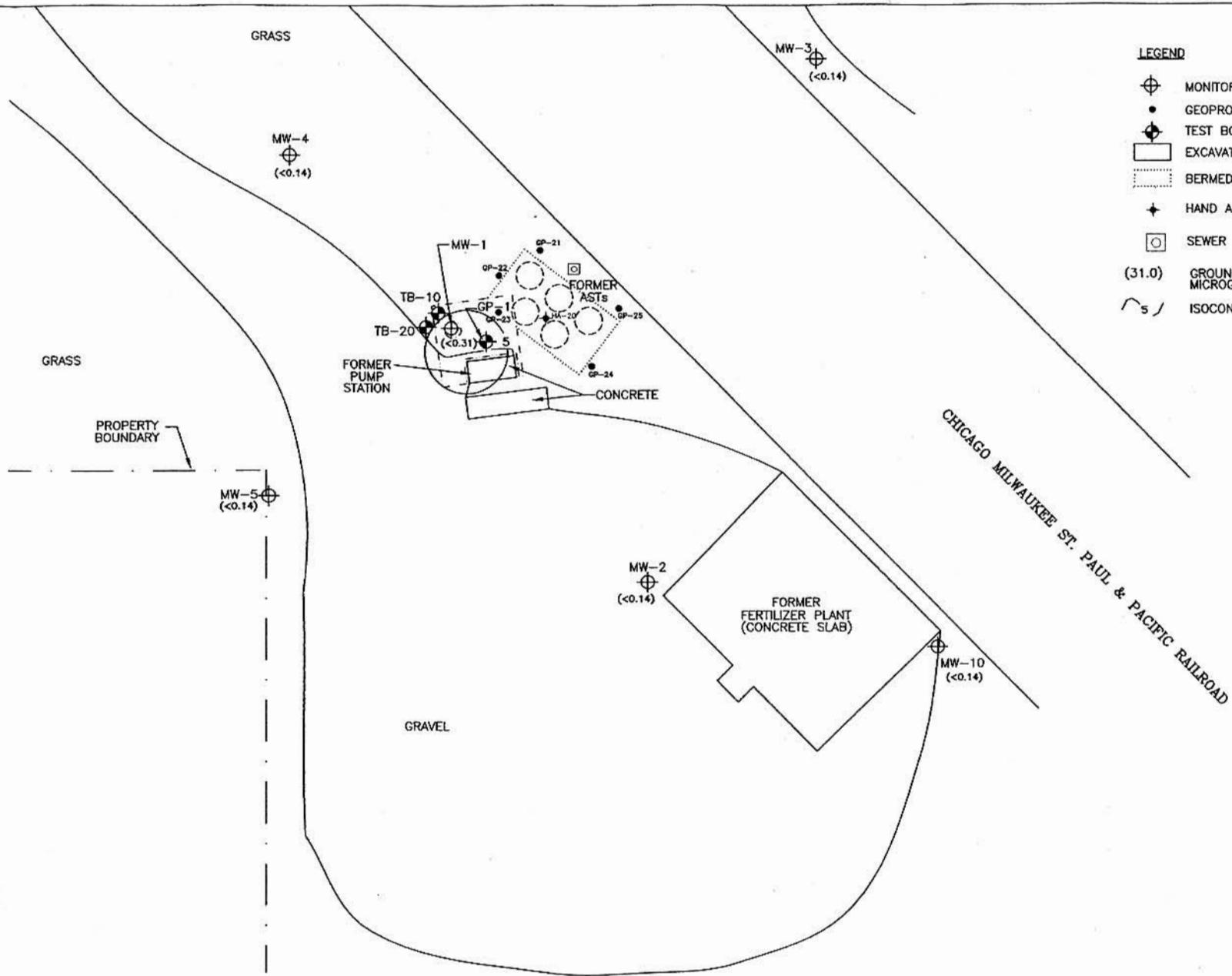
Table 1

**Soil Excavation Analytical Results Summary - Detected PVOC Compounds  
 United Cooperative - Iron Ridge Site  
 Iron Ridge, Wisconsin  
 Shaw Project Number; 680493**

SAMPLE INFORMATION									
Boring & Sample	Sample Date	Depth (ft bgs)	Benzene	Ethyl-benzene	MTBE	Toluene	1,2,4-TMB	1,3,5-TMB	Xylenes (total)
*EX-1	04/27/99	excavated	<2500	200000	<2500	10000	680000	200000	910000
*EX-2	04/27/99	excavated	<2500	180000	<2500	8400	680000	200000	880000
EX-3	04/27/99	3'	<25	<25	<25	<25	110	35	142
EX-4	04/27/99	3'	<25	<25	<25	<25	<25	<25	<25
EX-5	04/27/99	6'	<25	<25	<25	<25	47	<25	48
EX-6	04/27/99	4-5'	<630	20000	<630	<630	160000	48000	116000
EX-7	04/27/99	5'	<25	390	<25	<25	6600	2800	3900
EX-8	04/27/99	2'	<25	<25	<25	<25	78	27	64
NR 720.09 RCLs			5.5	2,900	NS	1,500	NS	NS	4,100
NR 746.06 Table 1			8,500	4,600	42,000	38,000	83,000	11,000	42,000
NR 746.06 Table 2			1100	NS	NS	NS	NS	NS	NS

**Notes:** Table only includes detected compounds.  
**Bold** - exceedence of the above listed standards  
 Concentrations in ug/kg  
 \*EX-1 and EX-2 were confirmation samples collected from the excavated soils

**Definitions:** ft bgs - feet below ground surface  
 ug/kg - micrograms per kilogram  
 MTBE - Methyl t-butyl ether  
 TMB - Trimethylbenzene  
 PVOSs - Petroleum Volatile Organic Compounds  
 NS - No Standard Established  
 RCL - Residual Contaminant Level  
 NR - Natural Resources Chapter of the Wisconsin Administrative Code



- LEGEND**
- MONITORING WELL
  - GEOPROBE BORING LOCATION
  - TEST BORING
  - EXCAVATION LIMITS (04/27/99)
  - BERMED SOIL (FORMER AST CONTAINMENT)
  - HAND AUGER LOCATION
  - SEWER
  - (31.0) GROUNDWATER BENZENE CONCENTRATION IN MICROGRAMS PER KILOGRAM
  - ( 5 ) ISOCONCENTRATION CONTOUR LINE



		GROUNDWATER BENZENE DISTRIBUTION MAP 11/14/04			
		UNITED COOPERATIVE-IRON RIDGE BULK PLANT S IRON RIDGE, WISCONSIN			
		<b>FIGURE 5</b>			
DESIGNED BY		CHECKED BY			
DRAWN BY	AJM	05/31/05	APPROVED BY		
SIZE:	SCALE:	DRAWING NO.	SHEET NO.	REVISION	
B	1"=60'	680493_2	1	1	

**TABLE 3**

**Groundwater Elevations  
United Cooperative - Iron Ridge Bulk Plant Site  
Iron Ridge, Wisconsin**

Date	MW-1			MW-2			MW-3			MW-4			MW-5			MW-10		
	TOC Elev=	909.07	908.07	TOC Elev=	908.07	911.55	TOC Elev=	905.44	907.13	TOC Elev=	907.13	902.1	TOC Elev=	902.1	902.1	TOC Elev=	911.41	
	TOS Elev=	903.2	905.7	TOS Elev=	905.7	908.9	TOS Elev=	900.6	902.1	TOS Elev=	902.1	902.1	TOS Elev=	902.1	902.1	TOS Elev=	906.7	
	Feet to Water	Elevation																
09/17/97	4.29	904.78	2.63	905.44	3.04	908.51	3.23	902.21	4.58	902.55	4.58	902.55	4.58	902.55	4.58	902.55	NM	NM
01/19/98	NM	NM	6.22	905.19														
06/16/99	4.18	904.89	2.46	905.61	2.73	908.82	2.17	903.27	4.54	902.59	4.54	902.59	4.54	902.59	4.54	902.59	2.92	908.49
12/09/99	4.44	904.63	3.26	904.81	3.84	907.71	2.51	902.93	4.69	902.44	4.69	902.44	4.69	902.44	4.69	902.44	3.14	908.27
02/21/00	6.63	902.44	3.59	904.48	4.44	907.11	3.57	901.87	7.01	900.12	7.01	900.12	7.01	900.12	7.01	900.12	4.02	907.39
11/16/04	5.85	903.22	3.20	904.87	4.48	907.07	3.93	901.51	5.69	901.44	5.69	901.44	5.69	901.44	5.69	901.44	3.85	907.56

**Notes:**

All elevations are in feet above mean sea level.

NA: Not analyzed

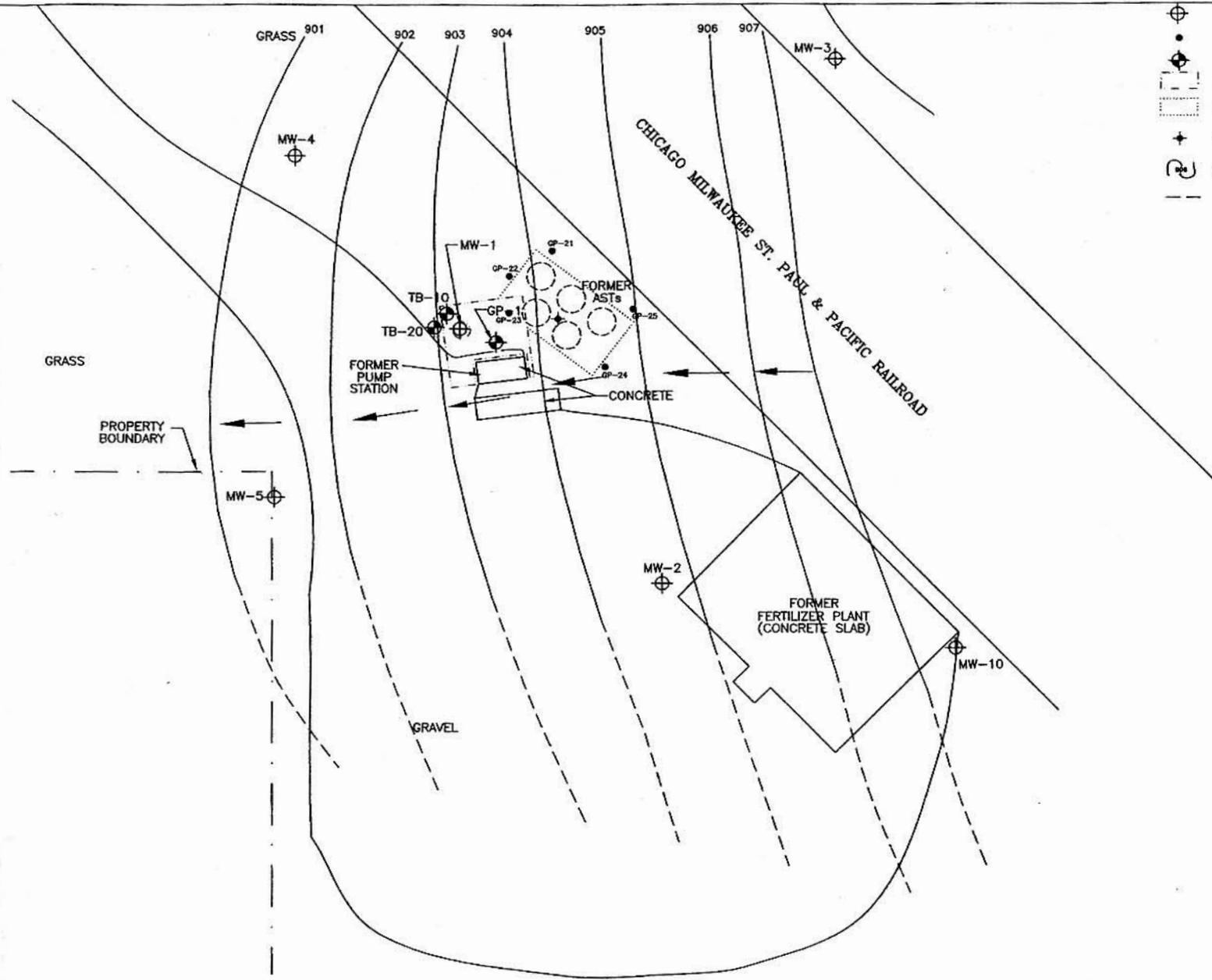
NM: Not measured

TOC: Top of Casing

TOS: Top of Screen

Checked by: \_\_\_\_\_

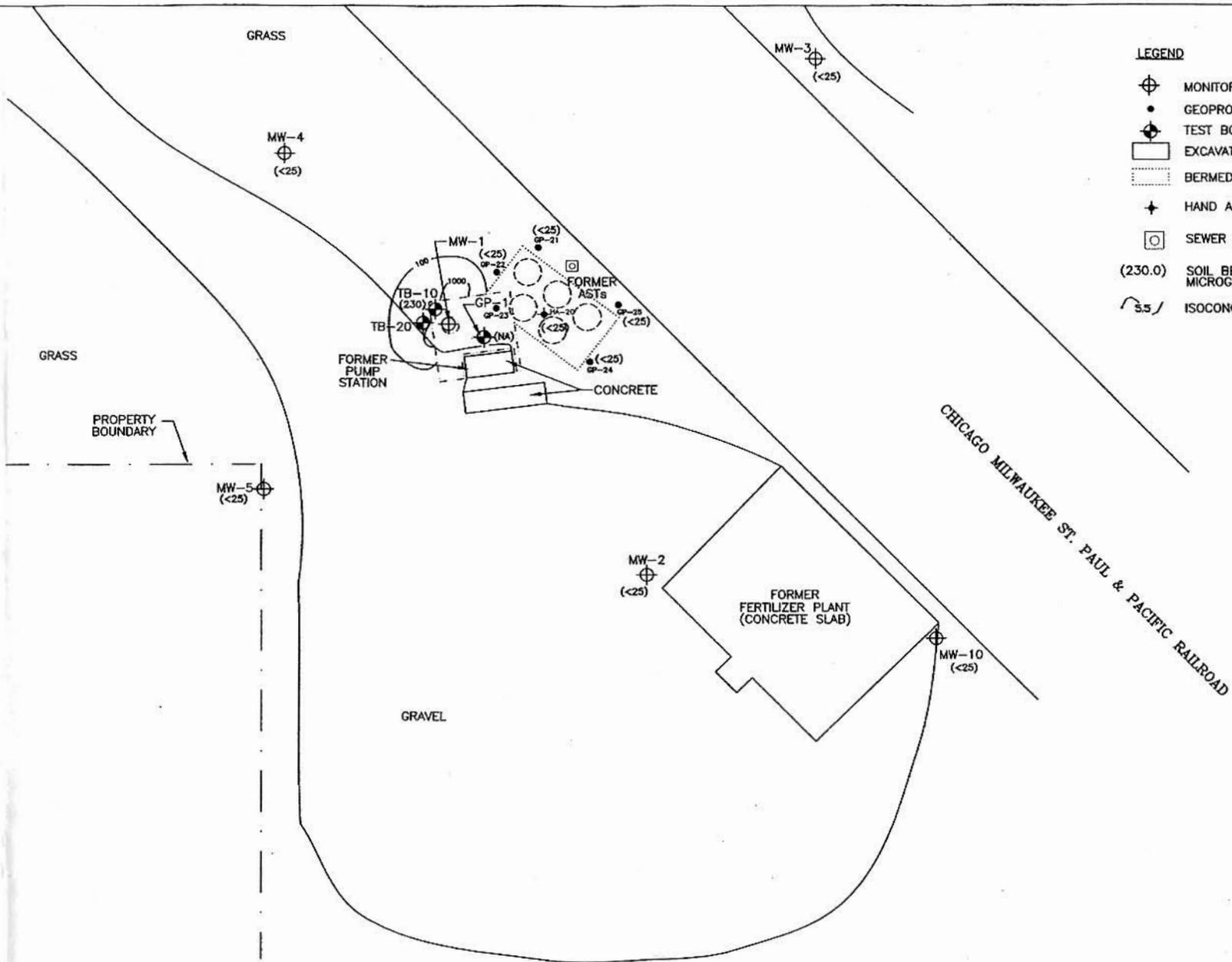
Approved by: \_\_\_\_\_



- MONITORING WELL
- GEOPROBE BORING LOCATION
- TEST BORING
- EXCAVATION LIMITS (04/27/99)
- BERMED SOIL (FORMER AST CONTAINMENT)
- HAND AUGER LOCATION
- ISOELEVATION CONTOUR
- ESTIMATED ISOELEVATION CONTOUR



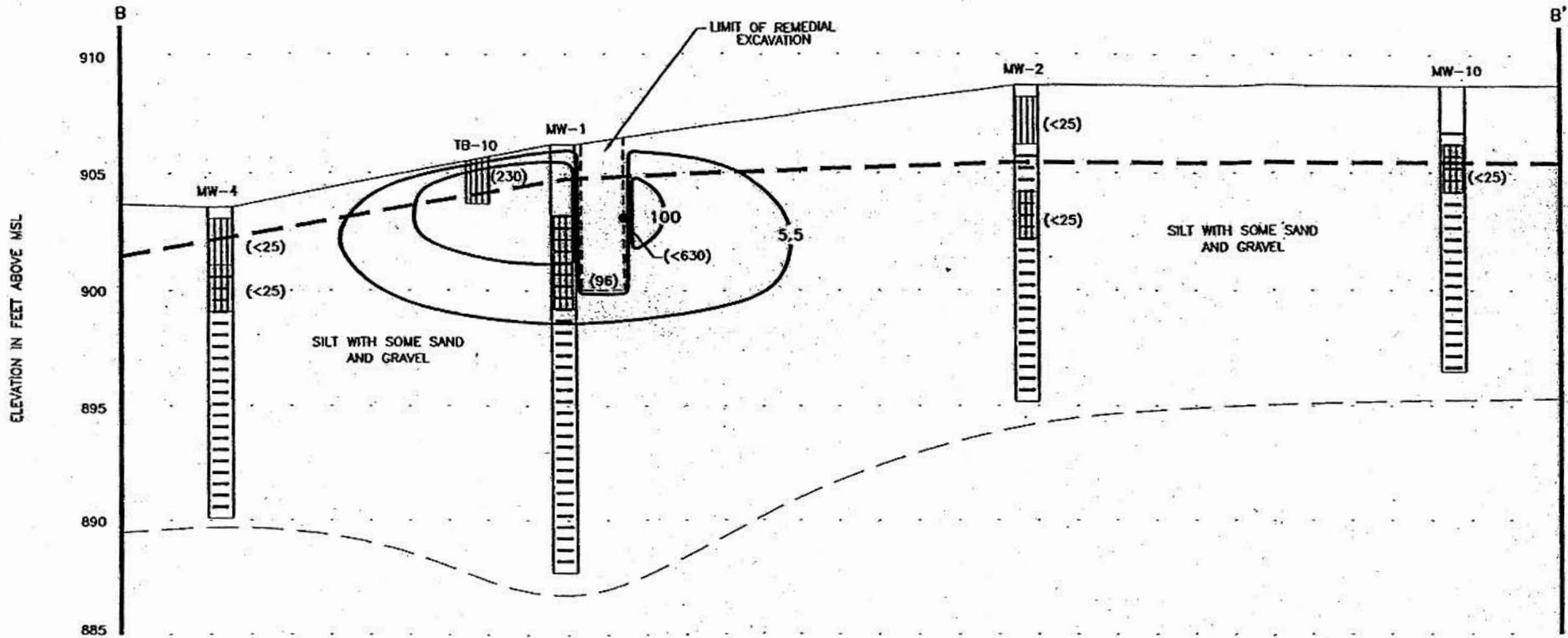
		GROUNDWATER ISOELEVATION CONTOUR MAP			
		UNITED COOPERATIVE-IRON RIDGE BULK PLANT IRON RIDGE, WISCONSIN			
		<b>FIGURE 3</b>			
DESIGNED BY		CHECKED BY			
DRAWN BY	AJM	03/28/05	APPROVED BY		
SIZE	SCALE	DRAWING NO.	SHEET NO.	REVISION	
B	1"=60'	103400_1		2	



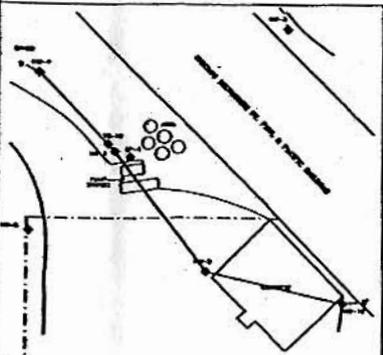
- LEGEND**
- MONITORING WELL
  - GEOPROBE BORING LOCATION
  - TEST BORING
  - EXCAVATION LIMITS (04/27/99)
  - BERMED SOIL (FORMER AST CONTAINMENT)
  - HAND AUGER LOCATION
  - SEWER
  - (230.0) SOIL BENZENE CONCENTRATION IN MICROGRAMS PER KILOGRAM
  - ISOCONCENTRATION CONTOUR LINE



		SOIL BENZENE DISTRIBUTION MAP SAMPLES COLLECTED: 9/15/97, 9/16/97 1/19/98, AND 11/14/04			
		UNITED COOPERATIVE-IRON RIDGE BULK PLANT SITE IRON RIDGE, WISCONSIN <b>FIGURE 4</b>			
DESIGNED BY		CHECKED BY			
DRAWN BY	AJM	APPROVED BY			
DATE	05/31/05				
SIZE	SCALE	DRAWING NO.	SHEET NO.	REVISION NO.	
B	1"=60'	680493_2		1	



PLAN VIEW



LEGEND

- SAMPLE INTERVAL
- SCREENED INTERVAL
- EXCAVATION SOIL SAMPLE
- GROUNDWATER TABLE (9/17/97)
- CONCENTRATION IN ppb
- 5.5 ISOCONCENTRATION CONTOUR

NOTES: THE NR720 GENERIC SOIL STANDARD FOR BENZENE IS 5.5 ppb.  
 BORINGS MW-1, MW-2, AND MW-4 WERE SAMPLED BETWEEN 9/15 AND 9/16/97.  
 BORINGS MW-10 AND TB-10 WERE SAMPLED ON 1/19/98.  
 REMEDIAL EXCAVATION WAS PERFORMED ON 4/27/99.

SCALE

HORIZONTAL: 1" = 30'  
 VERTICAL: 1" = 5'



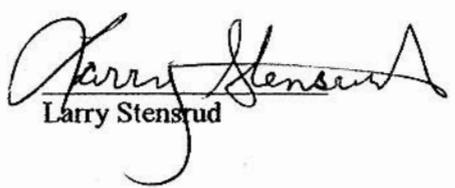
POST-EXCAVATION VERTICAL SOIL BENZENE DISTRIBUTION  
 CROSS-SECTION B-B'  
 UC - IRON RIDGE BULK PLANT SITE  
 IRON RIDGE, WISCONSIN

FIGURE NO.

8

DRAWING NO. 97.0641D  
 DRAWN BY: RRT  
 CHECKED BY: DMK  
 APPROVED BY: JFE  
 REVISION

I Larry Stensrud, Responsible Party (RP) for United Cooperative – Iron Ridge, located in Iron Ridge, Wisconsin, do hereby certify that to the best of my knowledge the legal description included within this report is complete and accurate.

  
Larry Stensrud

4-28-05  
Date