

**GIS REGISTRY INFORMATION**

**SITE NAME:** Green Rock FS Cooperative  
**BRRTS #:** 03-23-000124 **FID # (if appropriate):** \_\_\_\_\_  
**COMMERCE # (if appropriate):** 53520-1536-04  
**CLOSURE DATE:** 04-Apr-06  
**STREET ADDRESS:** 1104 12th Street  
**CITY:** Brodhead

**SOURCE PROPERTY GPS COORDINATES (meters in WTM91 projection):** X= 570840 Y= 238600

**CONTAMINATED MEDIA:** Groundwater  Soil  Both

**OFF-SOURCE GW CONTAMINATION >ES:**  Yes  No

**IF YES, STREET ADDRESS 1:** 1105 West 4th Avenue

**GPS COORDINATES (meters in WTM91 projection):** X= 570790 Y= 238660

**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:** Railroad  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
- 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.
- 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.
- 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.
- 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)
- 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

X
X
X
X
X
X
X
X



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

April 4, 2006

Mr. Norm Johnson  
Green-Rock FS Cooperative  
W8667 Buckhorn Circle  
Wautoma, WI 54982

Subject: **Final Closure** on the Green Rock FS site at 1104, 12th Street in Brodhead, Green County (BRRTS # 03-23-000124)

Dear Mr. Johnson:

The site listed above was conditionally closed in August 2005 pending monitoring well abandonment. We have recently received documentation that the monitoring wells have been properly abandoned. The Department now considers this case closed and no further investigation, remediation or other action is required at this time.

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 this case may be reopened pursuant to s. NR 726.09, Wis. Adm. Code, if additional information regarding site conditions indicate 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) 275-3332.

Sincerely,

Theodore J. Amman  
Spill Response Coordinator

cc: Kris Krause - RMT



→ fill



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

August 5, 2005

Randy Tomic  
Growmark, Inc.  
1701 Towanda Ave.  
PO Box 2500  
Bloomington, IL 61702-2500

Subject: Closure on the Green Rock FS site at 1104, 12<sup>th</sup> Street in Brodhead, Green County (BRRTS # 03-23-000124)

Dear Mr. Tomic

In July, 2005, the Green Rock FS site in Brodhead closure request was reviewed by the South Central Region Closure Committee. The South Central Region 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 petroleum contamination at the former bulk facility on 12<sup>th</sup> street and the downgradient Landmark Services Cooperative property has been cleaned up to the extent practicable. Your case has been remediated to Department standards in accordance with s. NR 726.05, Wis. Adm. Code and will be closed when the following condition is satisfied:

The monitoring wells and any remaining recovery wells, soil vapor extraction or air sparging wells must be properly abandoned in compliance with Chapter NR 141, Wis. Adm. Code. Documentation of well abandonment must be submitted to Ted Amman or Wendy Weihemuller 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

When the above condition has been satisfied, please submit a letter to let me know and your case will be closed. Since some contaminated soil and groundwater remains on your site and on the adjacent Landmark property to the northwest, both properties 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>

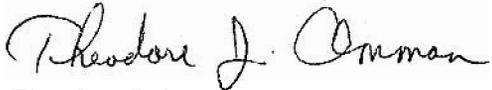
If this is a PECFA site, section 101.143, Wisconsin Statutes, requires that PECFA claimants seeking reimbursement of interest costs, for sites with petroleum contamination, submit a final reimbursement claim within 120 days after they receive a closure letter on their site. For claims not received by 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 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 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) 275-3332.

Sincerely,

A handwritten signature in black ink that reads "Theodore J. Amman". The signature is written in a cursive style with a large initial 'T' and 'A'.

Theodore J. Amman  
Spill Response Coordinator

Cc: Alyssa Sellwood, RMT 744 Heartland Trail, Madison, WI 53717  
Charles E. McManus, 905 W. 3<sup>rd</sup> Ave, Brodhead, WI 53520

STATE BAR OF WISCONSIN FORM 2 - 1998  
WARRANTY DEED

Document Number

DOCUMENT # 456483

This Deed, made between Charles E. McManus

Grantor, and Landmark Services Cooperative, a Wisconsin cooperative

Grantee.

Grantor, for a valuable consideration, conveys and warrants to Grantee the following described real estate in Green County, State of Wisconsin:

Lots One (1) and Two (2) of Block One Hundred Twelve (112) of the Original Plat of the City of Brodhead and other lands in the Northeast Quarter of the Southwest Quarter of Section 25, Town 2 North, Range 9 East, City of Brodhead, Green County, Wisconsin; more particularly described as follows: Lots 1 and 2 of Block 112 of the Original Plat of the City of Brodhead and commencing at the Northeast corner of Block 112 of Original Plat of the City of Brodhead; thence South 138.2 feet to the point of beginning; thence South 16.3 feet; thence Southwesterly along the North line of the right-of-way of the Wisconsin Railroad, 134.8 feet to the West line of Lot 2, Block 112 extended; thence North, 16.3 feet; thence Northeasterly, 134.8 feet more or less to the point of beginning.

Recorded  
DEC. 29, 2003 AT 02:15PM  
CYNTHIA A HELDT  
REGISTER OF DEEDS  
GREEN COUNTY, WISCONSIN  
Fee Amount: \$11.00  
Transfer fee: \$150.00

Recording Area

Name and Return Address  
Jonathan W. Groessl  
Post Office Box 1148  
Janesville, WI 53547-1148

23-206-533.0

Parcel Identification Number (PIN)

This is not homestead property.

ES (is not)

CODE

W-7

EXCLUSION

Exceptions to warranties: municipal and zoning ordinances and agreements entered under them, easements of record and use, building and use restrictions and covenants, general taxes levied in the current year and any liens or encumbrances created by the act or default of the Grantee.

Dated this 16<sup>th</sup> day of December, 2003

Charles E. McManus  
Charles E. McManus

AUTHENTICATION

Signature(s) of Charles E. McManus

authenticated this 16<sup>th</sup> day of December, 2003

TITLE: MEMBER STATE BAR OF WISCONSIN

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

THIS INSTRUMENT WAS DRAFTED BY

Jonathan W. Groessl  
Brennan, Stell & Basting, S.C.

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

ACKNOWLEDGMENT

STATE OF WISCONSIN )

ROCK ) ss.  
County.)

Personally came before me this 16<sup>th</sup> day of  
December, 2003 the above named  
Charles E. McManus

to me known to be the person(s) who executed the foregoing instrument and acknowledge the same.

Gail Dallman  
Gail Dallman

Notary Public, State of Wisconsin

My Commission is permanent (If not, state expiration date:  
August 15, 2004)

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

DOCUMENT NO  
**340446**

STATE BAR OF WISCONSIN FORM 3-1982  
QUIT CLAIM DEED

THIS SPACE RESERVED FOR RECORDING DATA

VP 472 PAGE 52

McManus Oil Company, Inc., a Wisconsin corporation  
quit-claims to Charles E. McManus  
the following described real estate in Green County, State of Wisconsin:

11  
REGISTER OF DEEDS OFFICE }  
GREEN COUNTY WISCONSIN } SS  
RECORDED Jan 14 1973  
9:20 A. M. VOL 472 PAGE 52  
MARILYN NEUBISCH  
ADVE

RETURN TO Mr. Charles McManus  
305 W. 3rd Avenue  
Brodhead, WI 53520

Tax Parcel No: .....

SEE ATTACHED LEGAL DESCRIPTION

CODE  
W-3  
EXCLUSION

FEE  
# 11.25 (15)  
EXEMPT

This ~~is~~ <sup>is not</sup> homestead property.  
~~they~~ (is not)

Dated this 30th day of December, 1972

*Philip J. McManus* (SEAL)  
Philip J. McManus, President

*Charles E. McManus* (SEAL)  
Charles E. McManus, Vice President

AUTHENTICATION

Signature(s) of Charles E. McManus  
& Philip J. McManus  
authenticated this 30th day of December, 1972  
*Jonathan W. Gross*  
TITLE: MEMBER STATE BAR OF WISCONSIN  
(If not authorized by § 706.06, Wis. Stats.)

ACKNOWLEDGMENT

STATE OF WISCONSIN }  
County } SS  
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.

THIS INSTRUMENT WAS DRAFTED BY  
Jonathan W. Gross  
BRENNAN, STELL, BASTING & MacDOUGALL, S.C.  
(Signatures may be authenticated or acknowledged. Both are not necessary.)

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

## B.1 Legal Description of Property

The Green-Rock FS site, located at 1104 12<sup>th</sup> Street, Brodhead, WI, was leased. A description of the property as described in the original lease, and the corresponding map is enclosed. Please note that the lease was established in 1941, at which time the names of the roads in Brodhead were different than today. The lease and maps refer to Thomas Street, which corresponds to 3<sup>rd</sup> Avenue West today, and to Cooke Street, which corresponds to 12<sup>th</sup> Street today. A map printed from [www.mapquest.com](http://www.mapquest.com) in 2004 has been included to compare to the original 1941 map. Features, such as the Sugar River and railroad configuration can be used to align the two maps and verify that the correspondence between the original and current street names.

Today the property leased by Green-Rock FS is owned by the City of Brodhead and the Wisconsin Department of Transportation (WisDOT). The WisDOT owns the 33 feet parallel to and just south of the railroad, and the City of Brodhead owns the remainder of the property as it extends from the WisDOT property line to the 12<sup>th</sup> Street right-of-way.

The contacts for the land owners are:

Vicki Schaefer  
Wisconsin Department of Transportation (WisDOT)  
Infrastructure Development  
Bureau of Railroad and Harbors  
4802 Sheboygan Avenue, 701  
Madison, WI 53707-7914  
Phone: 608-267-7346

Nancy Schoeller  
City Clerk Treasurer  
Brodhead City Hall  
1111 West 2<sup>nd</sup> Avenue  
Brodhead, WI 53520-0168  
Phone: 608-897-4018

Lots One (1) and Two (2) of Block One Hundred Twelve (112) of the Original Plat of the City of Brodhead and other lands in the Northeast Quarter of the Southwest Quarter of Section Twenty-Five (25), Town Two (2) North, Range Nine (9) East, City of Brodhead, Green County, Wisconsin; more particularly described as follows:  
Lots 1 & 2 of Block 112 of the Original Plat of the City of Brodhead and commencing at the Northeast corner of Block 112 of Original Plat of the City of Brodhead; thence South, 138.2 feet to the point of beginning; thence South 16.3 feet; thence Southwesterly along the North line of the right-of-way of the Wisconsin Railroad, 134.8 feet to the West line of Lot 2, Block 112 extended; thence North, 16.3 feet; thence North-easterly, 134.8 feet more or less to the point of beginning.

Brodhead Petro Plant  
Was leased

JUN 9 2004

**START** at the northwest corner of Thomas and Cooke Streets produced, in the City of Brodhead, in the County and State aforesaid, according to the recorded plat thereof; thence west along the north line of said Cooke Street 79 feet to the point of beginning of the land to be described; thence continue west along said north street line 70 feet; thence north at right angles 100 feet to a point distant 10 feet southerly of, as measured, at right angles to, the center line of the Milwaukee Trustees' main track as now there laid and operated; thence easterly parallel to said main track to an intersection with a line drawn perpendicular to said north street line and passing through the point of beginning; thence south along said perpendicular line 113 feet to the point of beginning.

CONTAINING 7,455 square feet, more or less, the location thereof being more particularly indicated by the red outline on the plat hereto attached and made a part hereof.

The Milwaukee Trustees hereby grant unto the Lessee the right to construct, repair, maintain and operate an unloading apparatus in the location indicated by the letter "X" on said plat, together with a pipe line for use in connection therewith, as indicated by the broken parallel red lines on said plat and extending from said unloading apparatus to and into the leased premises hereinabove described, it being understood by the Lessee that said pipe line must be laid at a depth not less than 3 feet below the surface of the ground, and that where said pipe line crosses under the Milwaukee Trustees' track or tracks, such pipe line must be laid at a depth not less than 4 feet below the bottom of the ties in said tracks.

The Lessee shall have signs posted on said premises warning against smoking and carrying lighted lanterns on or about the leased premises.

This lease is granted subject to the requirements of the Association of American Railroads' Circulars No. 17, dated May 1, 1935, and No. 17-C, dated October 10, 1940, copies of which are attached hereto and made a part hereof.

GREEN-ROCK FS  
BRODHEAD

PROPERTY  
DESCRIPTION

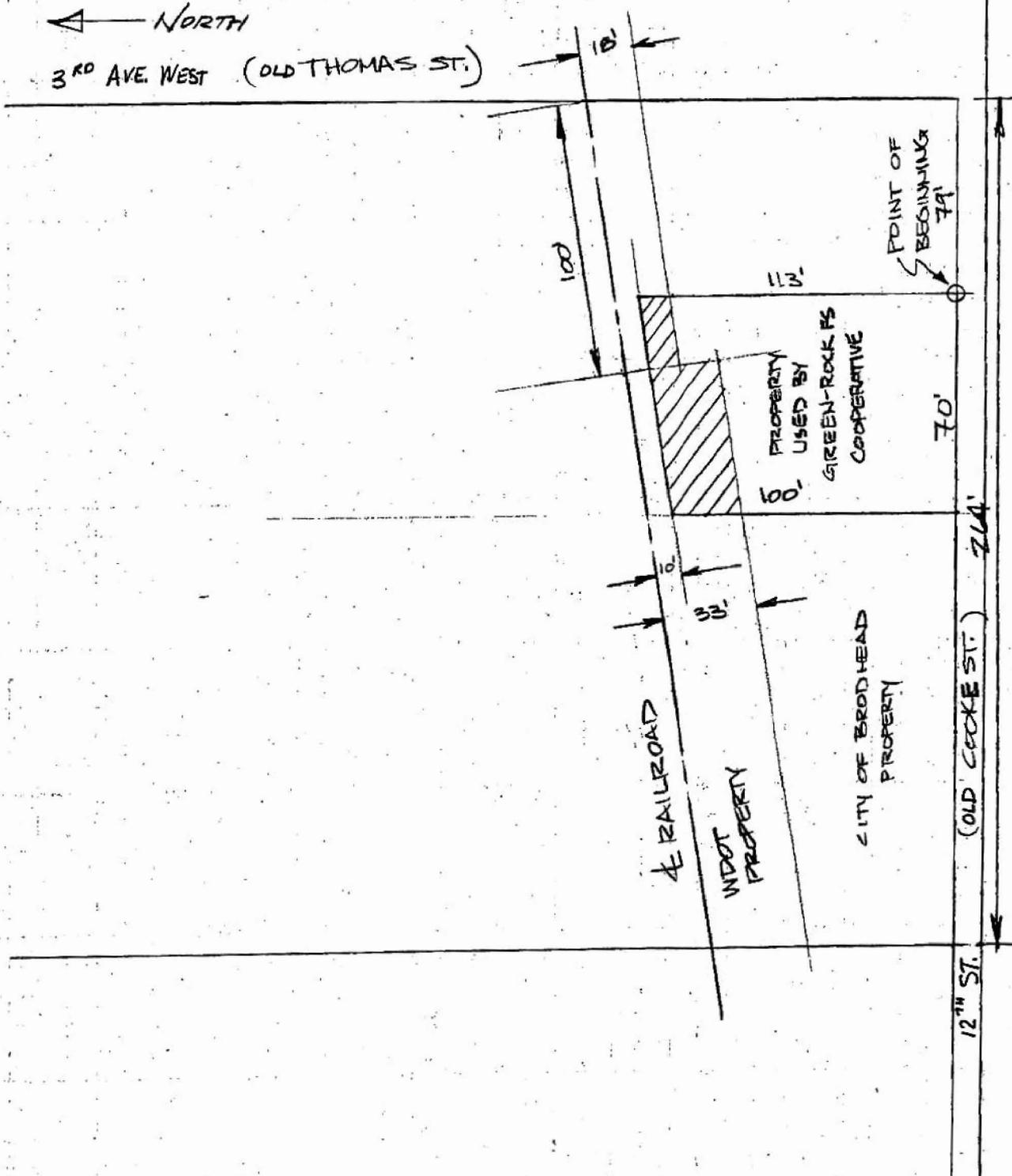
10/27/04 R. J. TOMIC

22-141 50 SHEETS  
22-142 100 SHEETS  
22-144 200 SHEETS



← NORTH

3<sup>RD</sup> AVE. WEST (OLD THOMAS ST.)



RAILROAD  
INDOT PROPERTY

PROPERTY  
USED BY  
GREEN-ROCK FS  
COOPERATIVE

CITY OF BRODHEAD  
PROPERTY

POINT OF  
BEGINNING

12<sup>TH</sup> ST.

(OLD COOKE ST.)





[Send To Printer](#) [Back to Map](#)

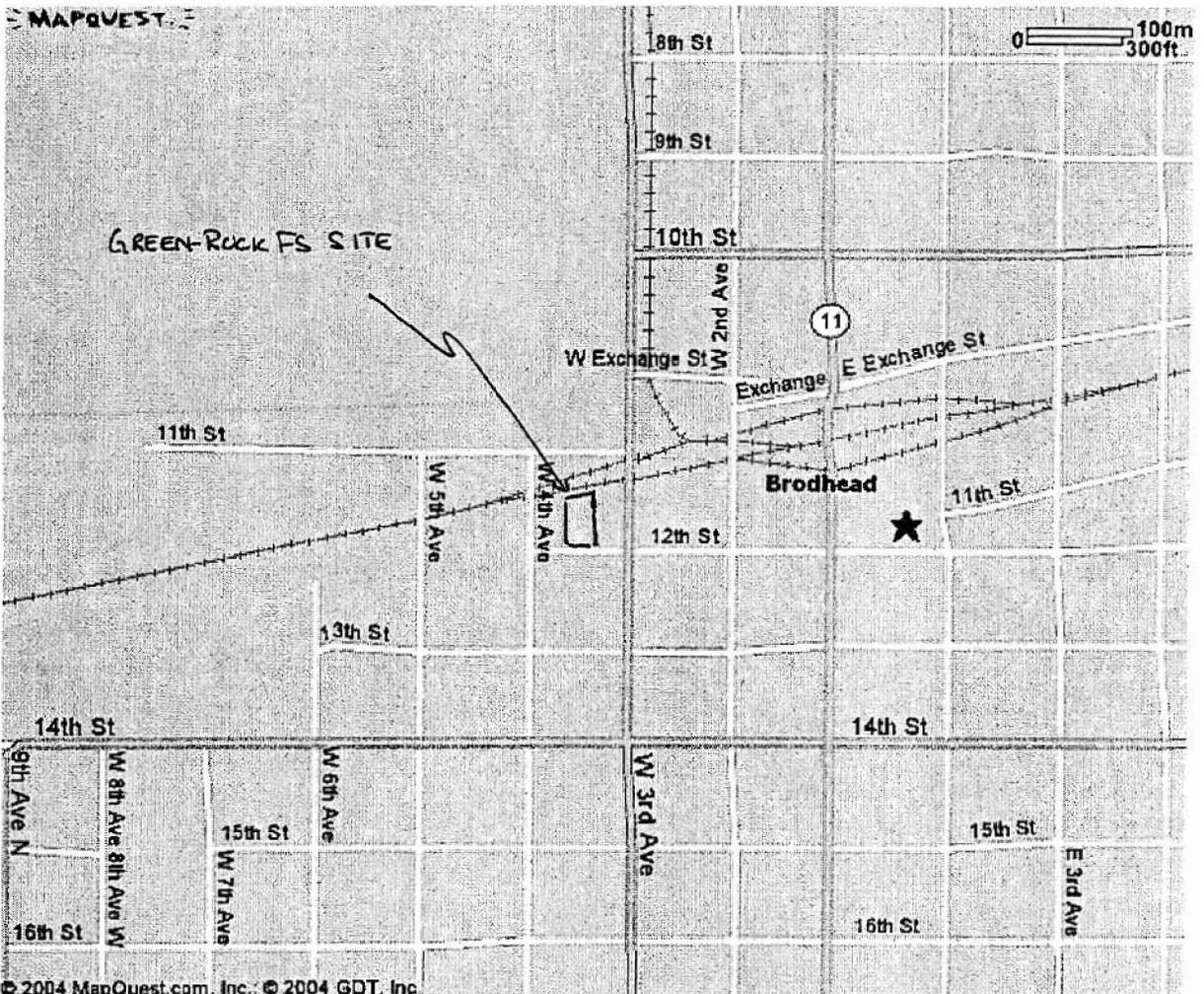
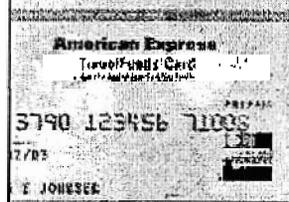
Brodhead WI

US

Notes:

.....  
.....  
.....  
.....

10 out of 10 thieves prefer to steal cash.



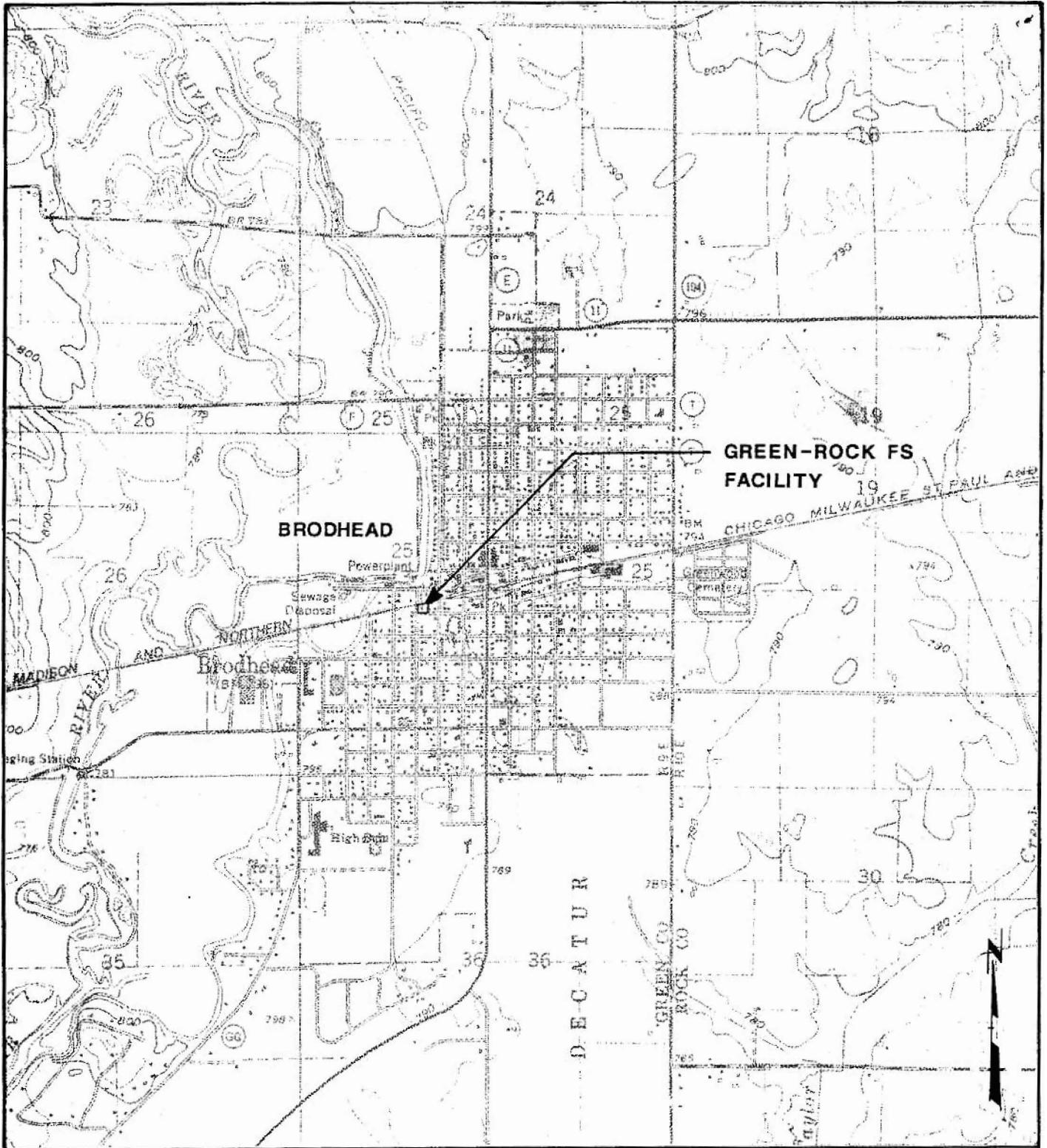
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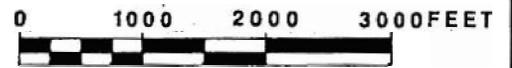
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**SITE LOCATOR MAP**

**GREEN-ROCK FS  
BULK PETROLEUM FACILITY  
BRODHEAD, WIS.**



SCALE: 1"=2000'

MAP SOURCE : USGS QUADRANGLE TOPOGRAPHIC MAPS,  
BRODHEAD WEST (WISCONSIN-ILLINOIS) 1982, BRODHEAD  
EAST (WISCONSIN-ILLINOIS) 1971, ORFORDVILLE (WIS.)  
1971, ALBANY (WISCONSIN-GREEN CO.) 1971



Dwn. by	DM
	9/23/88
Proj #	1501.04

**FIGURE 1**

**NOTES**

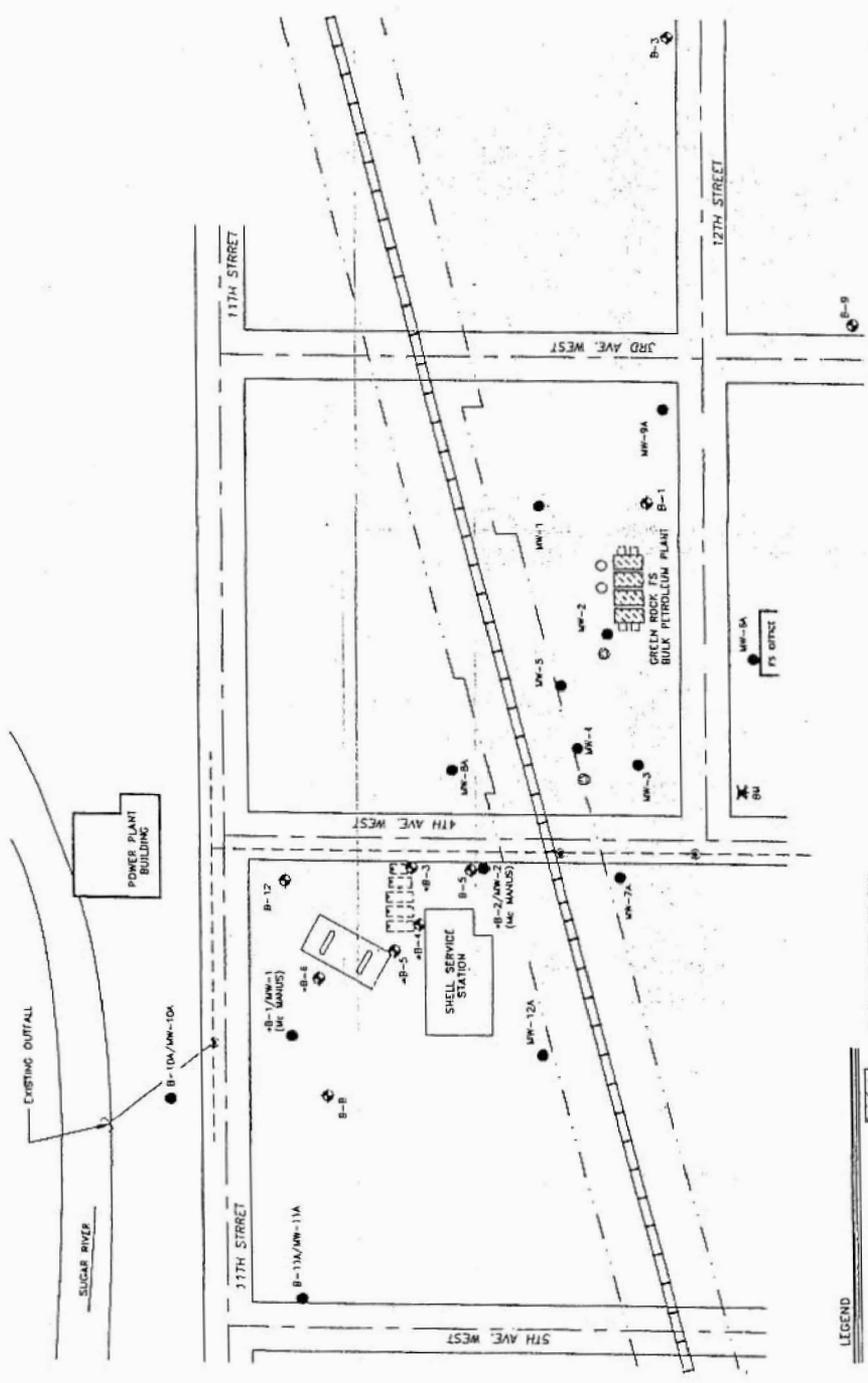
1. MEASUREMENTS MADE FROM CENTER LINE OF STREETS (DASHED LINES) AND FROM LOCAL BENCHMARK. THE PROXIMATE LANCE IS LOCAL BENCHMARK ASSIGNED AN ELEVATION OF 108.97.
2. EDGE OF STREET IS APPROXIMATE CITY RIGHT-OF-WAY 33' BACKWAY FROM CENTER LINE.
3. LOCATIONS OF STORM SEWER MANHOLES AND OUTFALL ARE APPROXIMATE. LOCATIONS BASED ON AN UNDATED SEWER MAP PROVIDED BY THE CITY OF BIRMINGHAM AND FIELD OBSERVATION BY RAS, INC.
4. MONITORING WELL AND BORING MANHOLES WITH 6" DIAMETS NUMBERED 10001 THROUGH 10005 WERE INSTALLED BY THE GREEN ROCK FACILITY. THESE MONITORING WELLS AND BORINGS ARE NOT LOCATED ON BIRMINGHAM'S CONFORMANCE MAP. THE PLUMBING SERVICE FOR THE GREEN ROCK FACILITY PRODUCT.



**GREEN ROCK  
SITE PLAN**

**RMI** MC

DWN. BY: RAS  
 APPROVED BY:  
 DATE: JUNE, 1993  
 PROJ. / 1501.11  
 FILE / 15011102



**LEGEND**

- MONITORING WELL
- SOIL BORING
- PUMPING WELL
- ROADWAY CENTERLINE
- MANHOLE
- ✕ FIRE HYDRANT
- ⊕ EXISTING MANHOLE
- ▭ 400K UNDERGROUND STEEL FUEL TANK
- ▭ 1000K UNDERGROUND GASOLINE TANKS

**Table 1a**  
**Groundwater Analytical Results**  
**Green-Rock FS - Union Co-op**  
**Brodhead, Wisconsin**

SAMPLE LOCATION	DATE	BENZENE (µg/L)	ETHYL- BENZENE (µg/L)	TOLUENE (µg/L)	XYLENES (µg/L)
NR 140 Enforcement Standard		5.0	700	1,000	10,000
MW-1	30-Dec-88	< 1.0	< 1.0	< 1.0	< 3.0
	04-Oct-90	< 1.0	< 1.0	< 1.0	< 3.0
	17-Jul-91	< 1.0	< 1.0	< 1.0	< 3.0
	11-Mar-92	< 1.0	< 1.0	< 1.0	< 3.0
	18-Feb-93	< 1.0	< 1.0	< 1.0	< 2.0
	30-Aug-93	< 1.0	< 1.0	< 1.0	< 2.0
	25-Aug-94	< 0.6	< 1.0	< 1.0	< 1.0
	26-May-95	< 0.6	< 1.0	< 1.0	< 2.0
	29-May-96	< 0.7	< 0.7	< 1.0	< 2.0
	06-Jun-97	< 0.5	< 0.5	< 0.5	< 2.0
MW-2	04-Oct-90	6,800	520	3,600	2,500
	17-Jul-91	7,200	1,200	10,000	5,500
	11-Mar-92	8,000	< 500	11,000	3,900
	18-Feb-93	6,000	680	8,300	2,900
	30-Aug-93	19,000	2,000	28,000	11,000
	25-Aug-94	850	1,500	510	1,730
	09-Feb-95	3,300	710	6,400	3,500
	26-May-95	2,500	950	6,900	5,000
	15-Aug-95	1,200	930	3,600	4,400
	30-Nov-95	1,900	920	5,700	4,500
	27-Feb-96	3,400	1,200	8,200	5,600
	29-May-96	5,800	1,500	16,000	8,100
	29-Aug-96	2,500	990	7,600	5,700
	26-Nov-96	3,000	990	8,100	5,700
	27-Feb-97	1,900	880	6,000	1,910
	06-Jun-97	8,200	2,400	22,000	12,100
	27-Aug-97	2,100	750	6,000	3,500
	25-Nov-97	1,100	640	3,000	2,960
	12-Aug-98	3,800	1,900	13,000	9,700
	16-Feb-99	37	8	8.4	< 20
	31-Aug-99	620	390	2,200	1,890
	24-Feb-00	570	370	2,400	1,900
	22-Aug-00	1,700	640	7,000	5,400
	28-Feb-01	400	440	3,900	2,700
	16-Aug-01	40	80	360	670
	27-Feb-02	< 22	370	1,300	75
	04-Sep-02	110	49	75	670
27-Feb-03	< 0.61	< 0.63	< 0.64	< 2.12	
29-Oct-03	65	81	6.5	127.1	

**Table 1a (continued)**  
**Groundwater Analytical Results**  
**Green-Rock FS - Union Co-op**  
**Brodhead, Wisconsin**

SAMPLE LOCATION	DATE	BENZENE (µg/L)	ETHYL- BENZENE (µg/L)	TOLUENE (µg/L)	XYLENES (µg/L)
NR 140 Enforcement Standard		5.0	700	1,000	10,000
MW-3	04-Oct-90	14	8.1	7.7	50
	17-Jul-91	420	< 0.05	< 0.05	< 150
	11-Mar-92	6.0	< 1.0	< 1.0	< 3.0
	18-Feb-93	< 1.0	< 1.0	< 1.0	< 2.0
	30-Aug-93	< 1.0	< 1.0	< 1.0	< 2.0
	25-Aug-94	< 0.6	< 1.0	< 1.0	< 1.0
	09-Feb-95	< 0.6	< 1.0	< 1.0	< 2.0
	26-May-95	< 0.6	< 1.0	< 1.0	< 2.0
	15-Aug-95	< 0.6	< 1.0	< 1.0	< 2.0
	30-Nov-95	< 0.6	< 0.6	< 1.0	< 2.5
	27-Feb-96	< 0.7	< 0.7	< 1.0	< 2.0
	29-May-96	< 0.7	< 0.7	< 1.0	< 2.0
	29-Aug-96	< 0.7	< 0.7	< 1.0	< 2.0
	26-Nov-96	< 0.4	< 0.3	< 0.25	< 0.76
	06-Jun-97	< 2.4	< 2.3	< 2.3	< 8.2
	27-Aug-97	< 0.1	< 0.12	0.17	< 0.16
25-Nov-97	4.5	< 0.26	2.7	40	
MW-4	04-Oct-90	3,200	660	5,800	3,300
	17-Jul-91	13,000	3,500	10,000	16,000
	11-Mar-92	9,200	680	83,000	5,000
	18-Feb-93	6,100	1,300	11,000	6,000
	30-Aug-93	11,000	1,400	18,000	8,500
	25-Aug-94	< 1.0	< 1.0	< 1.0	< 1.0
	09-Feb-95	6,300	1,100	10,000	5,500
	26-May-95	5,500	1,100	10,000	5,900
	15-Aug-95		590	5,300	3,160
	30-Nov-95	5,100	1,100	9,500	5,200
	27-Feb-96	3,300	830	5,200	3,500
	29-May-96	3,800	910	8,000	4,900
	29-Aug-96	3,800	600	6,100	3,200
	26-Nov-96	6,200	1,300	13,000	7,200
	27-Feb-97	2,200	710	6,200	3,500
	06-Jun-97	9,100	2,200	2,800	11,300
27-Aug-97	2,300	750	6,600	3,900	
25-Nov-97	2,900	1,100	7,500	5,300	
27-Feb-98	1,700	780	6,100	3,560	

**Table 1a (continued)**  
**Groundwater Analytical Results**  
**Green-Rock FS - Union Co-op**  
**Brodhead, Wisconsin**

SAMPLE LOCATION	DATE	BENZENE (µg/L)	ETHYL-BENZENE (µg/L)	TOLUENE (µg/L)	XYLENES (µg/L)
NR 140 Enforcement Standard		5.0	700	1,000	10,000
MW-4 (cont.)	12-Aug-98	4,400	1,600	15,000	8,800
	16-Feb-99	1,000	410	3,700	2,150
	31-Aug-99	1,700	720	5,000	3,800
	24-Feb-00	2,400	1,000	8,700	4,400
	22-Aug-00	1,300	660	5,600	4,200
	28-Feb-01	40 J	270	2,000	1,900
	16-Aug-01	390	420	640	4,600
	27-Feb-02	< 4.3	32	27	550
	04-Sep-02	2.6	3.3	6.6	50
	27-Feb-03	< 6.1	< 6.3	< 6.4	36
MW-5	04-Oct-90	< 100	1,300	< 2,000	< 7,400
	17-Jul-91	1,600	2,500	6,700	15,000
	11-Mar-92	760	420	2,400	2,900
	18-Feb-93	530	810	4,200	4,400
	30-Aug-93	480	9,300	10,000	6,400
	25-Aug-94	< 1.1	< 1.0	< 1.0	< 1.0
	09-Feb-95	350	670	5,300	4,400
	26-May-95	240	380	2,000	4,500
	15-Aug-95	330	280	2,800	8,600
	30-Nov-95	9.0	170	1,000	2,940
	27-Feb-96	72	550	2,100	5,100
	29-May-96	59	550	2,200	6,400
	29-Aug-96	62	93	1,300	2,300
	26-Nov-96	960	950	9,100	5,800
	27-Feb-97	230	660	380	3,600
	06-Jun-97	620	1,900	9,500	9,700
	27-Aug-97	18	83	180	1,700
	25-Nov-97	< 7.1	84	43	470
	27-Feb-98	7.6	26	< 5.4	191
	12-Aug-98	< 18	130	88	1,550
	16-Feb-99	< 0.25	59	88	650
	31-Aug-99	< 0.25	49	51	550
	24-Feb-00	2	130	120	1,200
22-Aug-00	2	3	8	400	
24-Oct-01	< 0.21	< 0.22	< 0.41	< 0.69	

**Table 1a (continued)**  
**Groundwater Analytical Results**  
**Green-Rock FS - Union Co-op**  
**Brodhead, Wisconsin**

SAMPLE LOCATION	DATE	BENZENE (µg/L)	ETHYL- BENZENE	TOLUENE (µg/L)	XYLENES (µg/L)
NR 140 Enforcement Standard		5.0	700	1,000	10,000
MW-6a	30-Dec-88	< 1	< 1	< 1	< 3
	10-May-89	< 1.0	< 1.0	< 1.0	< 3.0
	04-Oct-90	< 1.0	< 1.0	< 1.0	< 3.0
	17-Jul-91	< 1.0	< 1.0	< 1.0	< 3.0
	11-Mar-92	< 1.0	< 1.0	< 1.0	< 3.0
	18-Feb-93	< 1.0	< 1.0	< 1.0	< 2.0
	30-Aug-93	< 1.0	< 1.0	< 1.0	< 2.0
	25-Aug-94	< 0.60	< 1.0	< 1.0	< 1.0
	26-May-95	< 0.60	< 1.0	< 1.0	< 2.0
	29-May-96	< 0.70	< 0.70	< 1.0	< 2.0
	06-Jun-97	< 0.48	< 0.47	< 0.46	< 2.0
	31-Aug-99	< 0.25	< 0.32	< 0.38	< 1.0
	16-Aug-01	< 0.21	< 0.22	< 0.41	< 0.69
MW-7a	30-Dec-88	< 1.0	< 1.0	< 1.0	< 3.0
	10-May-89	< 1.0	< 1.0	< 1.0	< 3.0
	04-Oct-90	< 1.0	< 1.0	< 1.0	< 3.0
	11-Mar-92	< 1.0	< 1.0	< 1.0	< 3.0
	18-Feb-93	< 1.0	< 1.0	< 1.0	< 2.0
	30-Aug-93	< 1.0	< 1.0	< 1.0	< 2.0
	25-Aug-94	< 0.60	< 1.0	< 1.0	< 1.0
	26-May-95	< 0.60	< 1.0	< 1.0	< 2.0
	16-Aug-01	< 0.21	< 0.22	< 0.41	< 0.69
MW-8a	29-May-96	< 0.70	< 0.70	< 1.0	< 2.0
	06-Jun-97	< 0.48	< 0.47	< 0.46	< 2.0
	30-Aug-99	< 0.25	< 0.32	< 0.38	< 1.0
	30-Dec-88	< 1.0	< 1.0	< 1.0	< 3.0
	10-May-89	< 1.0	< 1.0	< 1.0	< 3.0
	04-Oct-90	< 1.0	< 1.0	< 1.0	< 9.0
	11-Mar-92	< 1.0	< 1.0	< 1.0	< 3.0
	18-Feb-93	< 1.0	< 1.0	< 1.0	< 2.0
	30-Aug-93	< 1.0	< 1.0	< 1.0	< 4.0
	25-Aug-94	< 0.60	< 1.0	< 1.0	< 1.0
	09-Feb-95	< 1.0	< 1.0	< 1.0	< 1.0
	26-May-95	< 0.60	< 1.0	< 1.0	< 2.0
	15-Aug-95	< 0.60	< 1.0	< 1.0	< 2.0
	30-Nov-95	< 0.60	< 1.0	< 1.0	< 2.0
	27-Feb-96	< 0.60	< 0.57	< 1.0	< 2.5
29-May-96	< 0.70	< 0.70	< 1.0	< 2.0	

**Table 1a (continued)**  
**Groundwater Analytical Results**  
**Green-Rock FS - Union Co-op**  
**Brodhead, Wisconsin**

SAMPLE LOCATION	DATE	BENZENE (µg/L)	ETHYL-BENZENE (µg/L)	TOLUENE (µg/L)	XYLENES (µg/L)
NR 140 Enforcement Standard		5.0	700	1,000	10,000
MW-8a (cont.)	26-Nov-96	< 0.70	< 0.70	< 1.0	< 2.0
	26-Nov-96	< 0.70	< 0.70	< 1.0	< 2.0
	27-Feb-97	< 0.36	< 0.26	< 1.0	< 0.76
	06-Jun-97	< 0.48	< 0.47	< 0.46	< 2.0
	27-Aug-97	0.38	< 0.12	2.2	< 0.16
	25-Nov-97	< 0.36	< 0.26	< 0.25	< 0.76
	27-Feb-96	< 0.22	< 0.21	< 0.22	< 0.87
	12-Aug-98	< 0.35	< 0.39	< 0.36	< 1.6
	16-Feb-99	< 0.25	< 0.32	< 0.38	< 1.4
	30-Aug-99	< 0.25	< 0.32	< 0.38	< 1.0
	24-Feb-00	< 0.32	< 0.34	< 0.35	< 1.0
	22-Aug-00	< 0.39	< 0.4	< 0.37	< 1.4
	28-Feb-01	< 0.39	< 0.4	< 0.37	< 1.4
	16-Aug-01	< 0.21	< 0.22	< 0.41	< 0.69
	27-Feb-02	< 0.43	< 0.50	< 0.63	< 1.50
	04-Sep-02	< 0.43	< 0.49	< 0.63	< 1.50
27-Feb-03	< 0.61	< 0.63	< 0.64	< 2.12	
29-Oct-03	< 0.45	< 0.47	< 0.61	< 1.59	
MW-9a	30-Dec-88	< 1.0	< 1.0	< 1.0	< 3.0
	10-May-89	< 1.0	< 1.0	< 1.0	< 3.0
	04-Oct-90	< 1.0	< 1.0	< 1.0	< 3.0
	11-Mar-92	< 1.0	< 1.0	< 1.0	< 3.0
	18-Feb-93	< 1.0	< 1.0	< 1.0	< 2.0
	30-Aug-93	< 1.0	< 1.0	< 1.0	< 2.0
	25-Aug-94	< 0.6	< 1.0	< 1.0	< 1.0
	26-May-95	< 0.6	< 1.0	< 1.0	< 2.0
	29-May-96	< 0.70	< 0.70	< 1.0	< 2.0
	06-Jun-97	< 0.48	< 0.47	< 0.46	< 2.0
	31-Aug-99	< 0.25	< 0.32	0.70	< 1.0
	16-Aug-01	< 0.21	< 0.22	< 0.41	< 0.69
	29-Oct-03	< 0.45	< 0.47	< 0.61	< 1.59
MW-10a	30-Dec-88	< 1.0	< 1.0	< 1.0	< 3.0
	04-Oct-90	< 1.0	< 1.0	< 1.0	< 3.0
	11-Mar-92	< 1.0	< 1.0	< 1.0	< 3.0
	18-Feb-93	< 1.0	< 1.0	< 1.0	< 2.0
	30-Aug-93	< 1.0	< 2,100	1,400	2,400
	25-Aug-94	< 0.60	< 1.0	< 1.0	< 1.0
	26-May-95	< 0.60	< 1.0	< 1.0	< 2.0
	15-Aug-95	< 0.60	< 1.0	< 1.0	< 7.4
	27-Feb-96	< 0.60	< 0.57	< 1.0	< 2.5

**Table 1a (continued)**  
**Groundwater Analytical Results**  
**Green-Rock FS - Union Co-op**  
**Brodhead, Wisconsin**

SAMPLE LOCATION	DATE	BENZENE (µg/L)	ETHYL- BENZENE (µg/L)	TOLUENE (µg/L)	XYLENES (µg/L)
NR 140 Enforcement Standard		5.0	700	1,000	10,000
MW-10a (cont.)	29-May-96	< 0.70	< 0.70	< 1.0	< 2.0
	29-Aug-96	< 0.70	56	120	290
	26-Nov-96	< 0.70	< 0.70	< 1.0	< 2.0
	27-Feb-97	< 0.36	< 0.26	1.0	< 0.8
	06-Jun-97	< 0.48	< 0.47	< 0.5	< 2.0
	27-Aug-97	< 0.10	< 0.12	< 0.2	< 0.16
	25-Nov-97	< 0.36	< 0.26	< 0.3	< 0.76
	27-Feb-98	< 0.22	< 0.21	< 0.2	< 0.87
	12-Aug-98	< 0.35	< 0.39	< 0.36	< 1.6
	16-Feb-99	< 0.25	< 0.32	< 0.53	< 1.4
	30-Aug-99	< 0.25	< 0.32	0.70	< 1.0
MW-11a	30-Dec-88	< 1.0	< 1.0	< 1.0	< 3.0
	04-Oct-90	< 1.0	< 1.0	< 1.0	< 3.0
	11-Mar-92	< 1.0	< 1.0	< 1.0	< 3.0
	18-Feb-93	< 1.0	< 1.0	< 1.0	< 2.0
	30-Aug-93	< 1.0	< 1.0	< 1.0	< 2.0
	25-Aug-94	< 0.6	< 1.0	< 1.0	< 1.0
	09-Feb-95	< 1.0	< 1.0	< 1.0	< 1.0
	26-May-95	< 0.60	< 1.0	< 1.0	< 2.0
	15-Aug-95	< 0.60	< 1.0	< 1.0	< 2.0
	30-Nov-95	< 0.60	< 1.0	< 1.0	< 2.0
	27-Feb-96	< 0.60	< 0.57	< 1.0	< 2.5
	29-May-96	< 0.70	< 0.70	< 1.0	< 2.0
	29-Aug-96	< 0.70	< 0.70	< 1.0	< 2.0
	26-Nov-96	< 0.70	< 0.70	< 1.0	< 2.0
	27-Feb-97	< 0.36	< 0.26	< 1.0	< 0.76
	06-Jun-97	< 0.78	< 0.89	< 0.76	< 3.4
	27-Aug-97	< 0.10	< 0.12	< 0.39	< 0.16
	25-Nov-97	< 0.36	< 0.26	< 0.25	< 0.76
31-Aug-99	< 0.25	< 0.32	< 0.38	< 1.04	
16-Aug-01	< 0.21	< 0.22	< 0.41	< 0.69	
MW-12a	30-Dec-88	< 1.0	< 1.0	< 1.0	< 3.0
	04-Oct-90	< 1.0	< 1.0	< 1.0	< 3.0
	11-Mar-92	< 1.0	< 1.0	< 1.0	< 3.0
	18-Feb-93	< 1.0	< 1.0	< 1.0	< 2.0
	30-Aug-93	< 1.0	< 1.0	< 1.0	< 2.0
	25-Aug-94	< 0.60	< 1.0	< 1.0	< 1.0
	26-May-95	< 0.60	< 1.0	< 1.0	< 2.0
	26-Nov-96	< 0.70	< 0.70	< 1.0	< 1.0
	06-Jun-97	< 0.78	< 0.89	< 0.76	< 2.0
	27-Feb-98	< 0.22	< 0.21	< 0.22	< 0.87

**Table 1a (continued)**  
**Groundwater Analytical Results**  
**Green-Rock FS - Union Co-op**  
**Brodhead, Wisconsin**

SAMPLE LOCATION	DATE	BENZENE (µg/L)	ETHYL- BENZENE (µg/L)	TOLUENE (µg/L)	XYLENES (µg/L)
NR 140 Enforcement Standard		5.0	700	1,000	10,000
MW-12a (cont.)	12-Aug-98	< 0.35	< 0.39	< 0.36	< 1.6
	16-Feb-99	< 0.25	< 0.32	< 0.53	< 1.4
	30-Aug-99	< 0.25	< 0.32	< 0.38	< 1.0
	24-Feb-00	< 0.32	< 0.34	< 0.35	< 1.0
	22-Aug-00	< 0.39	< 0.40	< 0.37	< 1.4
	16-Aug-01	< 0.21	< 0.22	< 0.41	< 0.69
	29-Oct-03	< 0.45	< 0.47	< 0.61	< 1.59
MCMANUS MW-1	30-Aug-93	9,200	2,400	28,000	14,000
	25-Aug-94	1,100	510	4,400	2,760
	09-Feb-95	430	450	2,800	1,950
	26-May-95	430	510	3,600	
	15-Aug-95	5,500	550	4,300	2,760
	30-Nov-95	8.9	210	1,000	850
	27-Feb-96	98	230	1,200	930
	29-May-96	630	1,100	6,900	5,700
	29-Aug-96	680	2,400	19,000	13,000
	26-Nov-96	440	510	5,400	5,500
	27-Feb-97	4.1	150	840	1,210
	06-Jun-97	420	1,100	2,900	8,000
	27-Aug-97	42	270	1,100	1,700
	25-Nov-97	< 1.8	16	18	310
	27-Feb-98	< 2.2	< 2.1	< 2.2	< 0.87
	12-Aug-98	< 0.35	< 0.39	< 0.36	< 2.6
	16-Feb-99	< 0.25	< 0.32	< 0.38	< 1.4
	31-Aug-99	< 0.25	< 0.32	< 0.38	< 1.0
	24-Feb-00	0.83	45	12	350
	22-Aug-00	3.4	23	< 3.7	230
28-Feb-01	3.1	160	4.5	1,100	
16-Aug-01	0.27	25	1.1	170	
27-Feb-02	< 2.20	125	< 3.2	860	
04-Sep-02	40	1,000	270.0	5,800	
08-Oct-02	3.0	84	18	530	
27-Feb-03	< 15	150	< 16	490	
29-Oct-03	< 11	< 12	< 15	< 40	
MCMANUS MW-2	30-Aug-93	11,000	2,700	39,000	16,000
	25-Aug-94	1,400	2,500	15,000	15,800
	09-Feb-95	1,900	1,800	12,000	12,000
	26-May-95	1,300	1,100	7,300	5,600
	15-Aug-95	770	940	6,300	4,900
	30-Nov-95	510	1,000	5,500	10,400
	27-Feb-96	150	320	2,000	3,400

**Table 1a (continued)**  
**Groundwater Analytical Results**  
**Green-Rock FS - Union Co-op**  
**Brodhead, Wisconsin**

SAMPLE LOCATION	DATE	BENZENE (µg/L)	ETHYL- BENZENE (µg/L)	TOLUENE (µg/L)	XYLENES (µg/L)
NR 140 Enforcement Standard		<b>5.0</b>	<b>700</b>	<b>1,000</b>	<b>10,000</b>
MCMANUS	29-May-96	520	900	5,500	11,000
MW-2 (cont.)	29-Aug-96	860	550	4,300	3,500
	26-Nov-96	<b>3,800</b>	<b>2,400</b>	<b>17,000</b>	<b>15,000</b>
	27-Feb-97	860	470	5,600	4,400
	06-Jun-97	<b>4,400</b>	<b>25,000</b>	<b>2,600</b>	<b>17,200</b>
	27-Aug-97	330	790	5,800	6,900
	25-Nov-97	280	<b>1,000</b>	<b>9,200</b>	<b>6,900</b>
	27-Feb-98	230	520	<b>6,800</b>	<b>13,900</b>
	12-Aug-98	< 8.9	< 9.7	290	760
	16-Feb-99	< 0.25	1.3	3.9	66
	30-Aug-99	<b>6.2</b>	<b>1,300</b>	<b>3,200</b>	<b>8,600</b>
	24-Feb-00	< 0.32	< 0.34	< 0.35	2.1
	22-Aug-00	400	<b>3,400</b>	<b>21,000</b>	<b>18,000</b>
	28-Feb-01	< 20	820	<b>2,300</b>	<b>5,500</b>
	16-Aug-01	240	<b>3,000</b>	<b>12,000</b>	<b>19,000</b>
	24-Oct-01	< 2.1	<b>1,500</b>	<b>4,400</b>	<b>10,000</b>
	27-Feb-02	12	840	660	6,600
	04-Sep-02	<b>45</b>	830	880	5,100
	08-Oct-02	<b>9.4</b>	480	81	3,500
	27-Feb-03	< 31	210	350	1,330
	29-Oct-03	< 4.5	190	400	1,220

Note:

**Bold indicates Enforcement Standard exceedence.**

**Table 1b**  
**RW-1 Groundwater Analytical Results**  
**Green-Rock FS**  
**Brodhead, Wisconsin**

DATE	BENZENE (µg/L)	ETHYL- BENZENE (µg/L)	TOLUENE (µg/L)	XYLENES (µg/L)	TSS (mg/L)	BOD (mg/L)
29-Nov-88	< 1	< 1	< 1	< 3	--	--
30-Dec-88	< 1	< 1	< 1	< 3	--	--
10-May-89	< 1	< 1	< 1	< 3	--	--
03-Oct-89	5,800	415	3,750	1,900	--	--
09-Oct-89	4,900	130	2,700	900	--	--
1/3/1990	1,900	24	2,300	1,300	--	--
1/10/1990	700	13	910	650	--	--
1/19/1990	70	< 10	240	900	--	--
1/30/1990	700	11	1,200	660	--	--
2/28/1990	760	74	1,200	520	--	--
3/27/1990	640	94	1,100	520	--	--
4/30/1990	1,000	240	1,900	1,000	--	--
5/29/1990	820	340	2,000	1,800	--	--
6/29/1990	750	170	1,800	1,000	--	--
7/31/1990	1,300	160	2,200	100	--	--
10/4/1990	960	380	3,200	1,900	--	--
10/26/1990	560	140	1,000	920	--	--
3/8/1991	390	98	840	590	--	--
4/12/1991	520	89	950	580	--	--
5/10/1991	710	120	1,200	630	--	--
6/13/1991	480	80	880	500	--	--
7/17/1991	410	82	700	480	--	--
7/31/1991	710	82	700	480	--	--
8/14/1991	540	120	810	710	--	--
9/12/1991	3,200	410	3,400	2,600	--	--
10/11/1991	260	140	680	1,200	--	--
11/15/1991	590	< 100	660	480	--	--
2/14/1992	350	40	430	210	--	--
3/11/1992	410	80	820	1,800	--	--
4/27/1992	720	70	800	460	--	--
5/18/1992	400	60	640	400	--	--
6/12/1992	510	81	620	450	--	--
7/17/1992	510	81	660	640	--	--
9/21/1992	490	42	520	380	--	--
10/6/1992	510	< 50	770	470	--	--
11/13/1992	410	35	470	370	--	--
2/18/1993	1,600	180	< 50	1,000	--	--
4/9/1993	340	50	620	410	--	--
5/5/1993	380	62	780	450	--	--
6/3/1993	290	40	520	340	--	--
2/16/1994	590	180	1,000	960	< 5.0	7.3
3/14/1994	320	70	670	710	< 5.0	5.3
4/13/1994	300	100	850	690	< 5.0	< 8.9
5/17/1994	240	70	590	510	13	3.5
6/16/1994	200	50	400	370	15	3.5

**Table 1b (continued)**  
**RW-1 Groundwater Analytical Results**  
**Green-Rock FS**  
**Brodhead, Wisconsin**

DATE	BENZENE (µg/L)	ETHYL- BENZENE (µg/L)	TOLUENE (µg/L)	XYLENES (µg/L)	TSS (mg/L)	BOD (mg/L)
7/14/1994	260	70	550	500	4.0	47
8/11/1994	240	90	550	470	12	3.0
9/15/1994	380	70	650	650	9.0	4.0
10/21/1994	330	80	650	580	3.0	4.0
11/11/1994	330	80	660	530	5.0	4.0
12/14/1994	350	50	540	450	< 3.0	2.0
7/13/1995	330	90	800	520	5.0	4.0
8/11/1995	270	60	510	430	3.0	--
9/7/1995	240	50	450	410	< 5.0	5.0
10/12/1995	290	60	520	440	< 3.0	3.0
11/6/1995	510	120	980	850	9.0	6.0
12/14/1995	210	60	430	360	3.0	4.0
4/15/1996	270	69	470	490	< 10	7.8
5/15/1996	200	47	380	390	< 10	4.5
6/10/1996	370	74	580	390	< 10	12
7/8/1996	310	69	640	6,600	< 10	3.0
8/29/1996	230	54	430	500	< 10	3.0
11/7/1996	430	98	950	810	< 10	7.4
4/28/1997	560	210	480	1,150	6.0	< 2.0
5/15/1997	130	41	320	390	4.0	< 6.0
6/12/1997	140	41	250	430	32	--
7/8/1997	140	21	260	340	76	< 3.0
8/21/1997	1,200	320	1,400	12,670	37	10
11/13/1997	1,400	350	1,300	1,710	17	--
12/18/1997	1,400	390	920	1,970	20	12
1/14/1998	130	26	300	470	7.0	4.0
2/10/1998	190	33	360	470	2.0	--
4/8/1998	110	21	260	241	6.0	< 3.0
5/14/1998	170	34	380	410	< 1.0	< 3.0
6/4/1998	110	33	320	340	4.0	< 1.0
7/1/1998	120	30	260	380	4.0	10
8/6/1998	840	260	1,000	1,620	49	14
9/16/1998	340	130	490	280	24	8.0
10/14/1998	420	160	510	900	19	8.0
11/12/1998	300	110	440	690	13	6.0
12/3/1998	150	51	390	400	17	5.0
2/9/1999	420	170	490	850	10.7	51
3/3/1999	310	130	410	770	10	23
4/8/1999	110	46	300	400	9.5	2.5
5/6/1999	93	25	230	320	<5.0	7.1
6/8/1999	130	26	270	440	<10	2.1
7/7/1999	82	20	200	270	<10	<3
8/5/1999	System stopped pumping					

Notes:

-- = not analyzed, not recorded.

**Table 2**  
**Groundwater Analytical Results**  
**Natural Attenuation Parameters**  
**Green-Rock FS - Union Co-op**  
**Brodhead, Wisconsin**

LOCATION	WELL	MANGANESE (µg/L)	NO <sub>2</sub> + NO <sub>3</sub> AS NITROGEN (mg/L)	SULFATE (mg/L)
Sidegradient	MW-12A	2.1	4.3	17
Sidegradient	MW-8A	<1.1>	4.1	9.7
Upgradient	MW-9A	390	5.3	33
Source	MW-2	2,900	0.45	66
Downgradient	McManus MW-2	640	ND	12
Downgradient	McManus MW-1	1,100	0.18	23
Natural Attenuation Trend		Increase	Decrease	Decrease
Trend at Site		Increase	Decrease	No Trend

Notes

◊ = Result is greater than or equal to the Limit of Detection (LOD), but less than the Limit of Quantitation (LOQ).

ND = not detected.

Samples were collected on October 29, 2003.

### Responsible Party Signed Statement

I, Norm Johnson, certify that the attached legal description of the Green-Rock FS facility, located at 1104 12<sup>th</sup> Street, Brodhead, Wisconsin, is complete and accurate to the best of my knowledge.

Green Rock FS Cooperative  
 By Norm Johnson, Agent  
 Norm Johnson



*Integrated  
Environmental  
Solutions*

744 Heartland Trail 53717-1934  
P.O. Box 8923 53708-8923  
Madison, WI  
Telephone: 608-831-4444  
Fax: 608-831-3334  
www.rmtinc.com

November 10, 2004

Nancy Schoeller  
City Clerk-Treasurer  
Brodhead City Hall  
1111 West 2nd Avenue  
P.O. Box 168  
Brodhead, WI 53520-0168

**Subject: Green-Rock FS  
1104 12<sup>th</sup> Street, Brodhead, Wisconsin  
Site Closure**

Dear Ms. Schoeller:

RMT, Inc. (RMT), on behalf of our client, Green-Rock FS, is requesting closure of the Green-Rock FS site located at 1104 12<sup>th</sup> Street, Brodhead, Wisconsin. Currently, one well on the site has a Wisconsin Department of Natural Resources (WDNR) Chapter NR 140 groundwater Enforcement Standard (ES) exceedence for benzene. Green-Rock FS has been identified as the responsible party (RP) for this groundwater contamination; however, Green-Rock FS has also identified City of Brodhead as the current owner of the property that contains the NR 140 ES exceedence for benzene. In order to apply for closure of the site, the WDNR requires that the current owner(s) of all properties containing NR 140 ES exceedences be notified of the closure request.

RMT is notifying you that closure of the site using natural attenuation as a final remedy for the groundwater impacts is being requested. RMT believes that allowing natural attenuation to complete the cleanup at this site will meet the requirements for case closure that are found in Chapter NR 726, Wisconsin Administrative Code, and will be requesting 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, other than the reliance on natural attenuation.

Since Green-Rock FS has been identified as the responsible party for the groundwater contamination, neither you nor any subsequent owner of your property will be held responsible for the 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, or to obtain a copy of the Department of Natural Resources' publication #RR-589, Fact Sheet 10: Guidance for Dealing with Properties Affected by Off-Site Contamination, 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.

Nancy Schoeller  
Brodhead City Hall  
November 10, 2004  
Page 2

The Department of Natural Resources will not review the closure 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 and provide any technical information you may have which indicates that closure should not be granted for this site. Submit any such information to the following address:

Mr. Theodore Amman  
Wisconsin Department of Natural Resources  
3911 Fish Hatchery Road  
Fitchburg, WI 53711

If this case is closed, all properties within the site boundaries where groundwater contamination exceeds Chapter NR 140 groundwater ESs will be listed on the Department of Natural Resources' Geographic Information System (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. Please review the enclosed legal description of your property, and notify me within the next 30 days if the legal description is incorrect.

Once the Department makes a decision on this closure request, it will be documented in a letter. If the Department grants closure, you may obtain a copy of this letter by requesting a copy from the WDNR, by writing to the agency address given above, or by accessing the WDNR 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, please contact me, at 608-831-4444.

Sincerely,

RMT, Inc.



Kristopher D. Krause, P.E.  
Senior Project Manager

Enclosure



Integrated  
Environmental  
Solutions

744 Heartland Trail 53717-1934  
P.O. Box 8923 53708-8923  
Madison, WI  
Telephone: 608-831-4444  
Fax: 608-831-3334  
www.rmtinc.com

April 21, 2005

Mr. Charles McManus  
905 West Third Avenue  
Brodhead, WI 53520

**Subject: Green-Rock FS - Site Closure**  
**1104 12<sup>th</sup> Street, Brodhead, Wisconsin**

Dear Mr. McManus:

RMT, Inc. (RMT), on behalf of our client Green-Rock FS, requested closure of the Green-Rock FS site located at 1104 12<sup>th</sup> Street, Brodhead, Wisconsin, from the Wisconsin Department of Natural Resources (WDNR). RMT is notifying you that closure of the site using natural attenuation as a final remedy for groundwater impacts was requested. Closure means that the WDNR would not require that any further investigation or cleanup action be taken, other than the reliance on natural attenuation.

The WDNR has verbally indicated to RMT that the site will be granted closure, with the condition that Green-Rock FS place all properties at which WDNR Chapter NR 140 groundwater Enforcement Standards (ESs) were exceeded, as a result of the impacts from the Green-Rock FS property, on the WDNR Geographic Information System (GIS) Registry of Closed Remediation Sites. The information on the GIS Registry includes maps showing the locations of properties in Wisconsin where groundwater contamination above NR 140 ESs was found at the time that the case was closed. This GIS Registry is available to the general public on the WDNR's Web site. Groundwater contamination that appears to have originated on the Green-Rock FS site has migrated onto your property at 1105 West 4<sup>th</sup> Avenue, Brodhead, Wisconsin. The concentration of benzene in one well on your property is above the WDNR Chapter NR 140 groundwater Enforcement Standard (ES). Thus, in order to receive closure of the Green-Rock FS site, Green-Rock FS must place your property on the GIS registry.

Since Green-Rock FS has been identified as the responsible party for the groundwater contamination, neither you, nor any subsequent owner of your property, will be held responsible for the 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, or to obtain a copy of the WDNR's publication #RR-589, Fact Sheet 10: Guidance for Dealing with Properties Affected by Off-Site Contamination, 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.

Mr. Charles McManus  
April 21, 2005  
Page 2

As an affected property owner, you have a right to contact the WDNR and provide any technical information you may have which indicates that closure should not be granted for this site. Submit any such information to the following address:

Mr. Theodore Amman  
Wisconsin Department of Natural Resources  
3911 Fish Hatchery Road  
Fitchburg, WI 53711

Once the WDNR finalizes the closure of the site, it will be documented in a letter. You may obtain a copy of this letter by requesting a copy from the WDNR, by writing to the agency address given above, or by accessing the WDNR 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.

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 the WDNR Drinking Water Program, 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.

If you need more information, or if you have any questions, please contact me, at 608-831-4444.

Sincerely,

RMT, Inc.



Kristopher D. Krause, P.E.  
Senior Project Manager

cc: Randy Tomic - GROWMARK



July 1, 2005

Mr. Mike Elder  
Landmark Services Cooperative  
P.O. Box 277  
Cottage Grove, WI 53527

**Subject: Green-Rock FS - Site Closure**  
**1104 12<sup>th</sup> Street, Brodhead, Wisconsin**

Dear Mr. Elder:

RMT, Inc. (RMT), on behalf of our client Green-Rock FS, requested closure of the Green-Rock FS site located at 1104 12<sup>th</sup> Street, Brodhead, Wisconsin, from the Wisconsin Department of Natural Resources (WDNR). RMT is notifying you that closure of the site using natural attenuation as a final remedy for groundwater impacts was requested. Closure means that the WDNR would not require that any further investigation or cleanup action be taken, other than the reliance on natural attenuation.

The WDNR has verbally indicated to RMT that the site will be granted closure, with the condition that Green-Rock FS place all properties at which WDNR Chapter NR 140 groundwater Enforcement Standards (ESs) were exceeded, as a result of the impacts from the Green-Rock FS property, on the WDNR Geographic Information System (GIS) Registry of Closed Remediation Sites. The information on the GIS Registry includes maps showing the locations of properties in Wisconsin where groundwater contamination above NR 140 ESs was found at the time that the case was closed. This GIS Registry is available to the general public on the WDNR's Web site. Groundwater contamination that appears to have originated on the Green-Rock FS site has migrated onto your property at 1105 West 4<sup>th</sup> Avenue, Brodhead, Wisconsin. The concentration of benzene in one well on your property is above the WDNR Chapter NR 140 groundwater Enforcement Standard (ES). Thus, in order to receive closure of the Green-Rock FS site, Green-Rock FS must place your property on the GIS registry.

Since Green-Rock FS has been identified as the responsible party for the groundwater contamination, neither you, nor any subsequent owner of your property, will be held responsible for the 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, or to obtain a copy of the WDNR's publication #RR-589, Fact Sheet 10: Guidance for Dealing with Properties Affected by Off-Site Contamination, 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.

Mr. Mike Elder  
Landmark Services Cooperative  
July 1, 2005  
Page 2

As an affected property owner, you have a right to contact the WDNR and provide any technical information you may have which indicates that closure should not be granted for this site. Submit any such information to the following address:

Mr. Theodore Amman  
Wisconsin Department of Natural Resources  
3911 Fish Hatchery Road  
Fitchburg, WI 53711

Once the WDNR finalizes the closure of the site, it will be documented in a letter. You may obtain a copy of this letter by requesting a copy from the WDNR, by writing to the agency address given above, or by accessing the WDNR 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.

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 the WDNR Drinking Water Program, 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.

If you need more information, or if you have any questions, please contact me, at 608-831-4444.

Sincerely,

RMT, Inc.



Kristopher D. Krause, P.E.  
Senior Project Manager

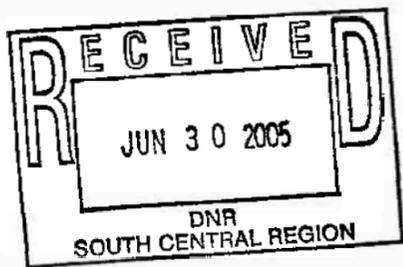
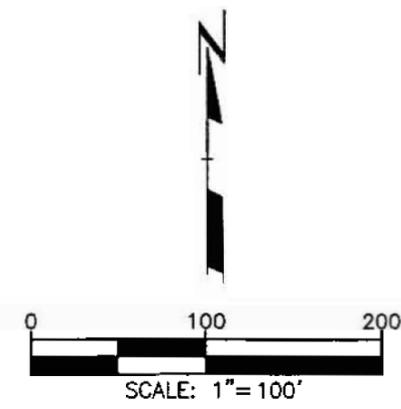
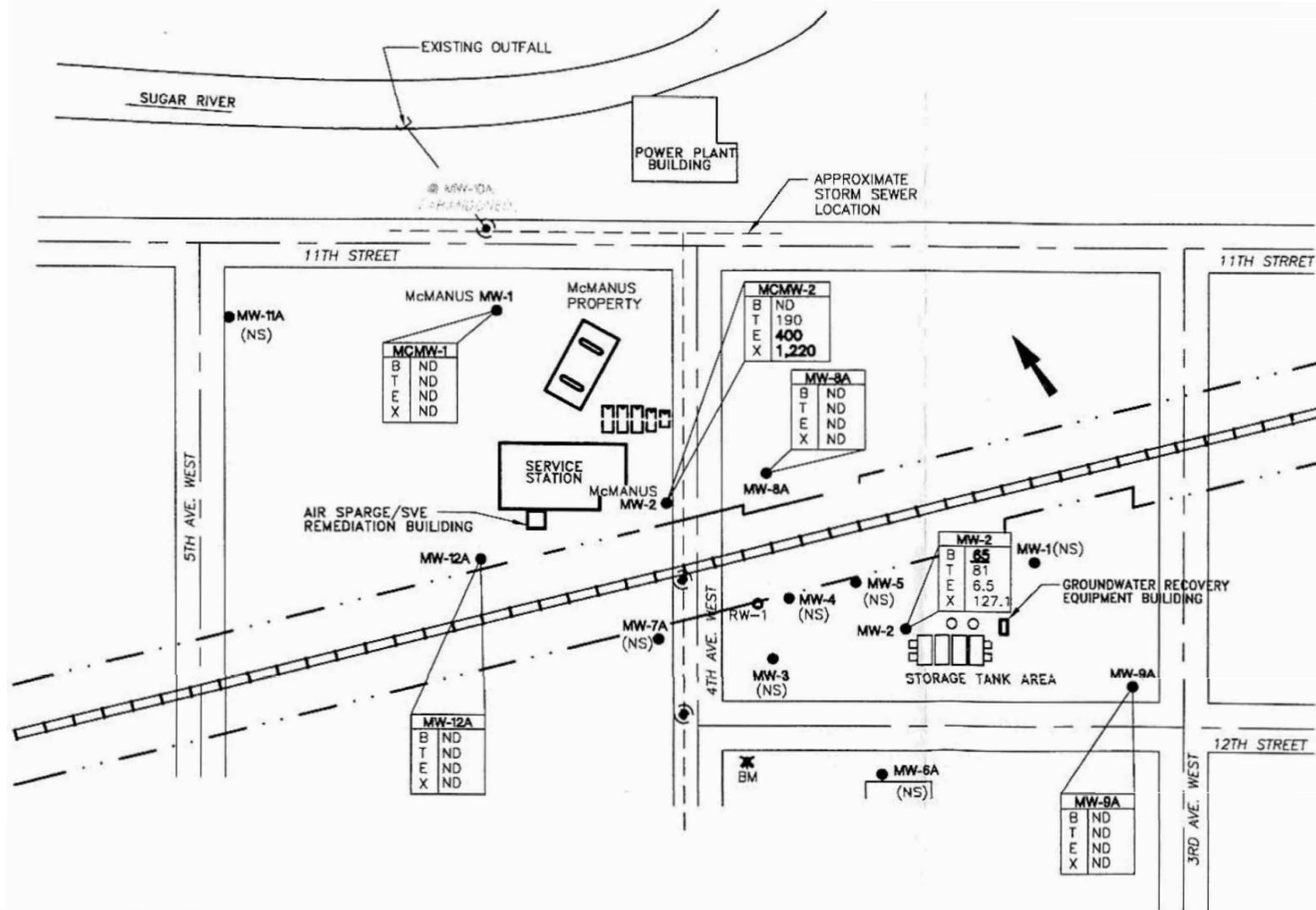
cc: Randy Tomic - GROWMARK

**LEGEND**

- MW-1 MONITORING WELL
  - RW-1 PUMPING WELL
  - ROADWAY CENTERLINE
  - ▬ RAILROAD
  - ⊗ FIRE HYDRANT
  - ⊙ EXISTING MANHOLE
  - - - RAILROAD RIGHT-OF-WAY
  - (NS) NOT SAMPLED
- |   |     |
|---|-----|
| B | 40  |
| T | 360 |
| E | 80  |
| X | 670 |
- ND NOT DETECTED
  - ← GROUNDWATER FLOW DIRECTION
  - 65 ES EXCEEDENCE
  - 400 PAL EXCEEDENCE

**NOTES**

1. MEASUREMENTS MADE FROM CENTER LINE OF STREETS (DASHED LINES) AND FROM LOCAL BENCHMARK. FIRE HYDRANT FLANGE IS LOCAL BENCHMARK, ASSIGNED AN ELEVATION OF 100.0'.
2. EDGE OF STREET IS APPROXIMATE. CITY RIGHT-OF-WAY 33' EACHWAY FROM CENTER LINE.
3. LOCATIONS OF STORM SEWER, MANHOLES AND OUTFALL ARE APPROXIMATE. LOCATIONS BASED ON AN UNDATED SEWER MAP PROVIDED BY THE CITY OF BRODHEAD AND FIELD OBSERVATION BY RMT, INC.



PLOT DATA  
 Drawing Name: J:\01501\31\15013106.dwg  
 Operator Name: hooksb  
 Scale: 1"=100'

<b>PROJECT:</b>			
<b>GREEN-ROCK FS BRODHEAD, WISCONSIN</b>			
<b>SHEET TITLE:</b>			
<b>CONTAMINANT DISTRIBUTION MAP OCTOBER 28, 2003</b>			
<b>DRAWN BY:</b> HOOKSB	<b>SCALE:</b>	<b>PROJ. NO.:</b> 01501.31	
<b>CHECKED BY:</b> AS	1"=100'	<b>FILE NO.:</b> 15013106.DWG	
<b>APPROVED BY:</b> KDK	<b>DATE PRINTED:</b>	<b>FIGURE 1</b>	
<b>DATE:</b> JUNE 2005	JUN 28 2005		
<b>RMT.</b>		744 Heartland Trail Madison, WI 53717-1934 P.O. Box 8923 53708-8923 Phone: 608-831-4444 Fax: 608-831-3334	

**Table 3**  
**Groundwater Elevations**  
**Green-Rock FS - Union Co-op**  
**Brodhead, Wisconsin**

SAMPLE LOCATION	DATE	REFERENCE ELEVATION (ft. M.S.L.)	DEPTH TO WATER (ft)	WATER ELEVATION (ft M.S.L.)
MW-1	27-Feb-02	99.87	22.05	77.82
	04-Sep-02		22.1	77.77
	27-Feb-03		22.12	77.75
	28-Oct-03		NM	
MW-2	27-Feb-02	100.53	21.22	79.31
	04-Sep-02		22.44	78.09
	27-Feb-03		22.38	78.15
	28-Oct-03		22.25	78.28
MW-3	27-Feb-02	100.00	21.95 <sup>(1)</sup>	78.05 <sup>(1)</sup>
	04-Sep-02		DRY	--
	27-Feb-03		DRY	--
	28-Oct-03		DRY	--
MW-4	27-Feb-02	98.89	21.85	77.04
	04-Sep-02		23.04	75.85
	27-Feb-03		22.58	76.31
	28-Oct-03		DRY	--
MW-5	27-Feb-02	99.81	22.4	77.41
	04-Sep-02		NM	
	27-Feb-03		DRY	--
	28-Oct-03		NM	--
MW-6A	27-Feb-02	98.06	20.45	77.61
	04-Sep-02		21.47	76.59
	27-Feb-03		NM	--
	28-Oct-03		NM	--
MW-7A	27-Feb-02	98.93	21.96	76.97
	04-Sep-02		22.95	75.98
	27-Feb-03		22.9	76.03
	28-Oct-03		NM	--
MW-8A	27-Feb-02	99.96 <sup>(2)</sup>	19.91	80.05
	04-Sep-02		21.34	78.62
	27-Feb-03		20.9	79.06
	28-Oct-03		22.8	77.16
MW-9A	27-Feb-02	99.70	21.58	78.12
	04-Sep-02		22.81	76.89
	27-Feb-03		22.8	76.90
	28-Oct-03		22.71	76.99

**Table 3 (continued)**  
**Groundwater Elevations**  
**Green-Rock FS - Union Co-op**  
**Brodhead, Wisconsin**

SAMPLE LOCATION	DATE	REFERENCE ELEVATION (ft. M.S.L.)	DEPTH TO WATER (ft)	WATER ELEVATION (ft M.S.L.)
MW-11A	27-Feb-02	98.26	22.9	75.36
	04-Sep-02		23.44	74.82
	27-Feb-03		NM	--
	28-Oct-03		NM	--
MW-12A	27-Feb-02	98.44	22.03	76.41
	04-Sep-02		NM	--
	27-Feb-03		23.01	75.43
	28-Oct-03		22.86	75.58

Notes:

DRY = well was obstructed or dry.

NM = not measured.

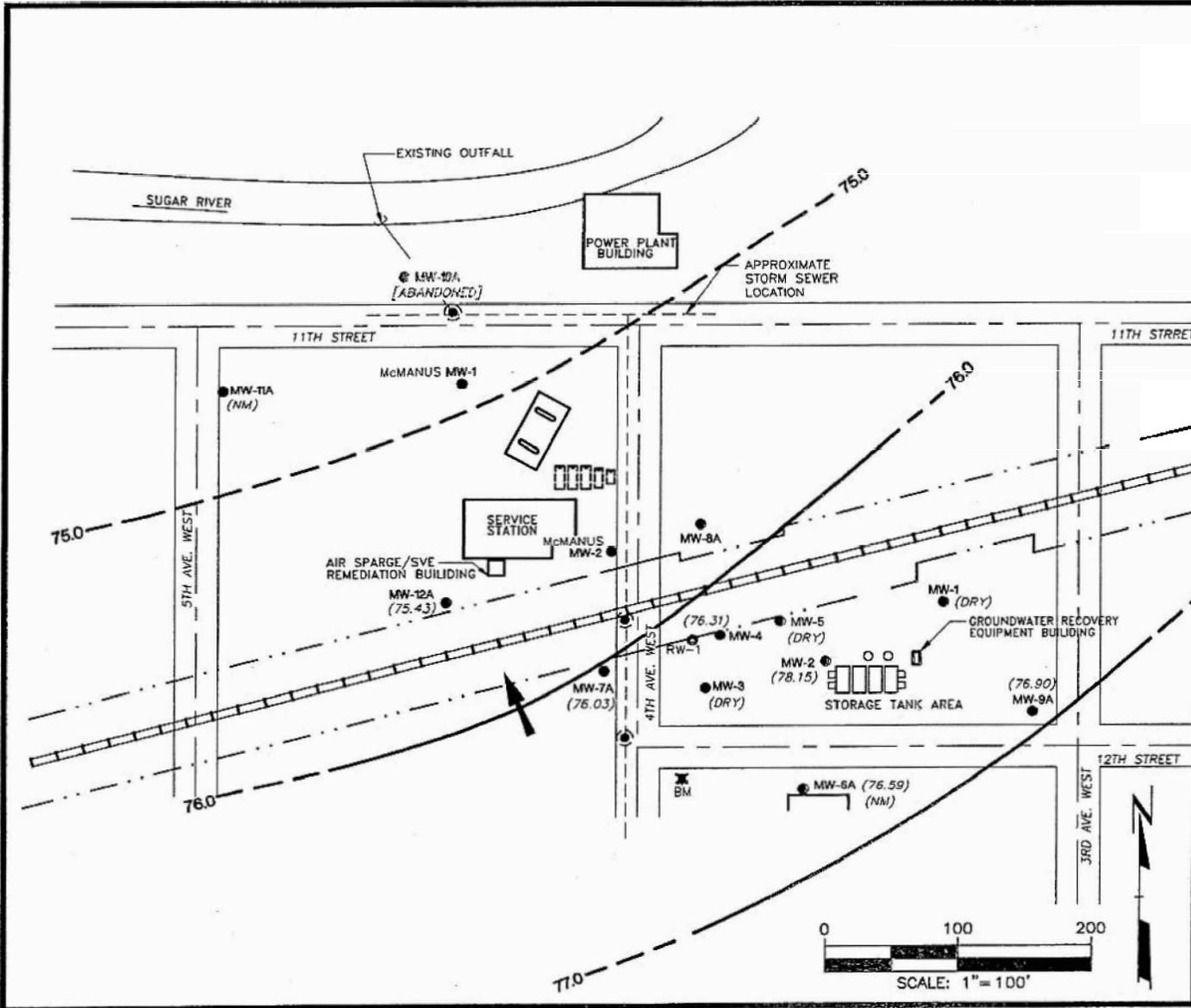
Footnotes:

- <sup>(1)</sup> MW-3 was obstructed. The depth to water is less than 21.95, and the water level is greater than 78.05.
- <sup>(2)</sup> It is assumed that the reference elevation for MW-8A is incorrect; therefore, the water levels measured from this well are not used to determine groundwater flow.

Scale = 1:100,000,000  
 Rotation = 90.000000  
 Plot Date = Wed Jun 21 08:54:46 2004  
 Attached Xref's: x

Scale = 1:100,000,000  
 Rotation = 90.000000  
 Plot Date = Wed Jun 21 08:54:46 2004  
 Attached Xref's: x

Scale = 1:100,000,000  
 Rotation = 90.000000  
 Plot Date = Wed Jun 21 08:54:46 2004  
 Attached Xref's: x

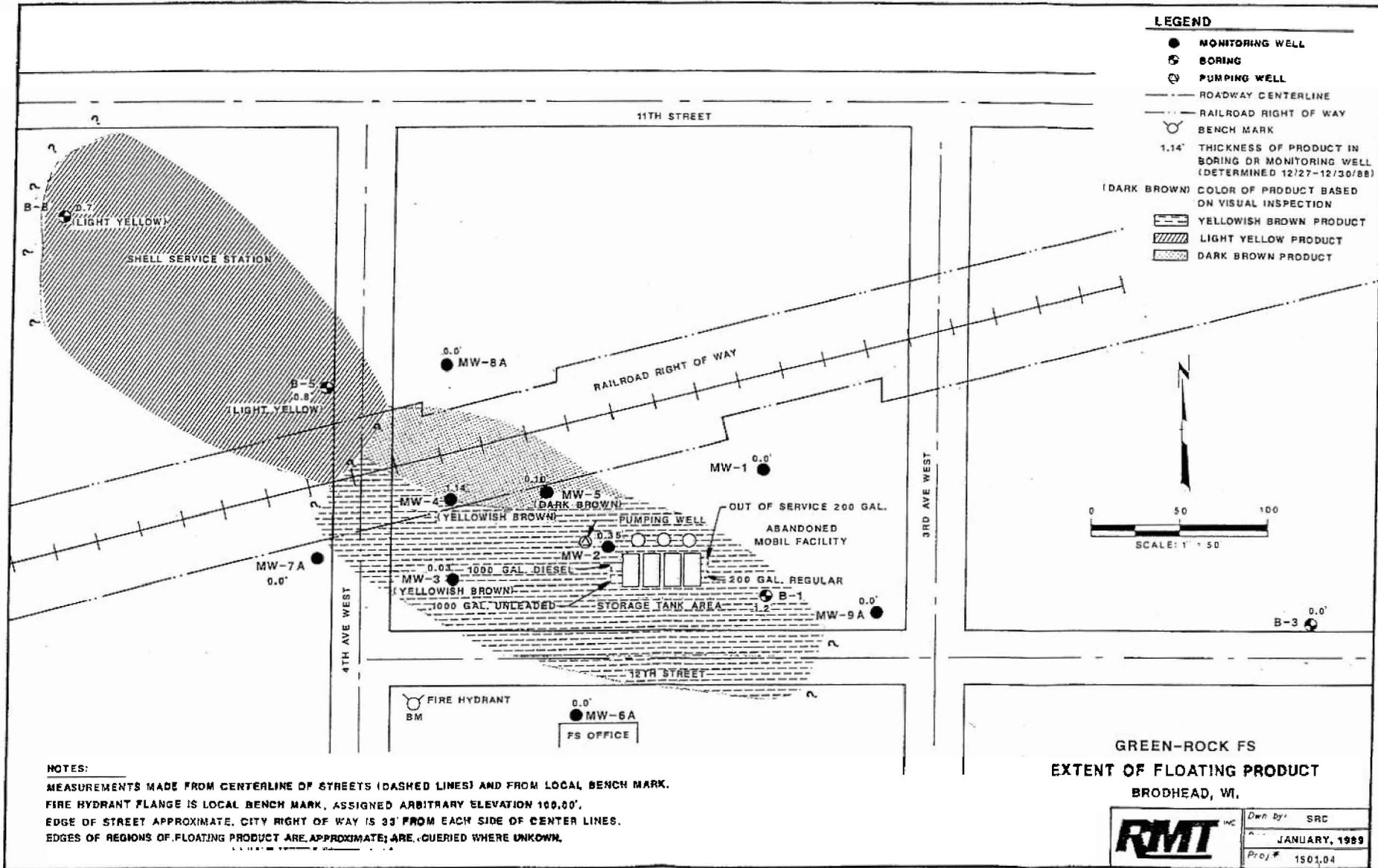


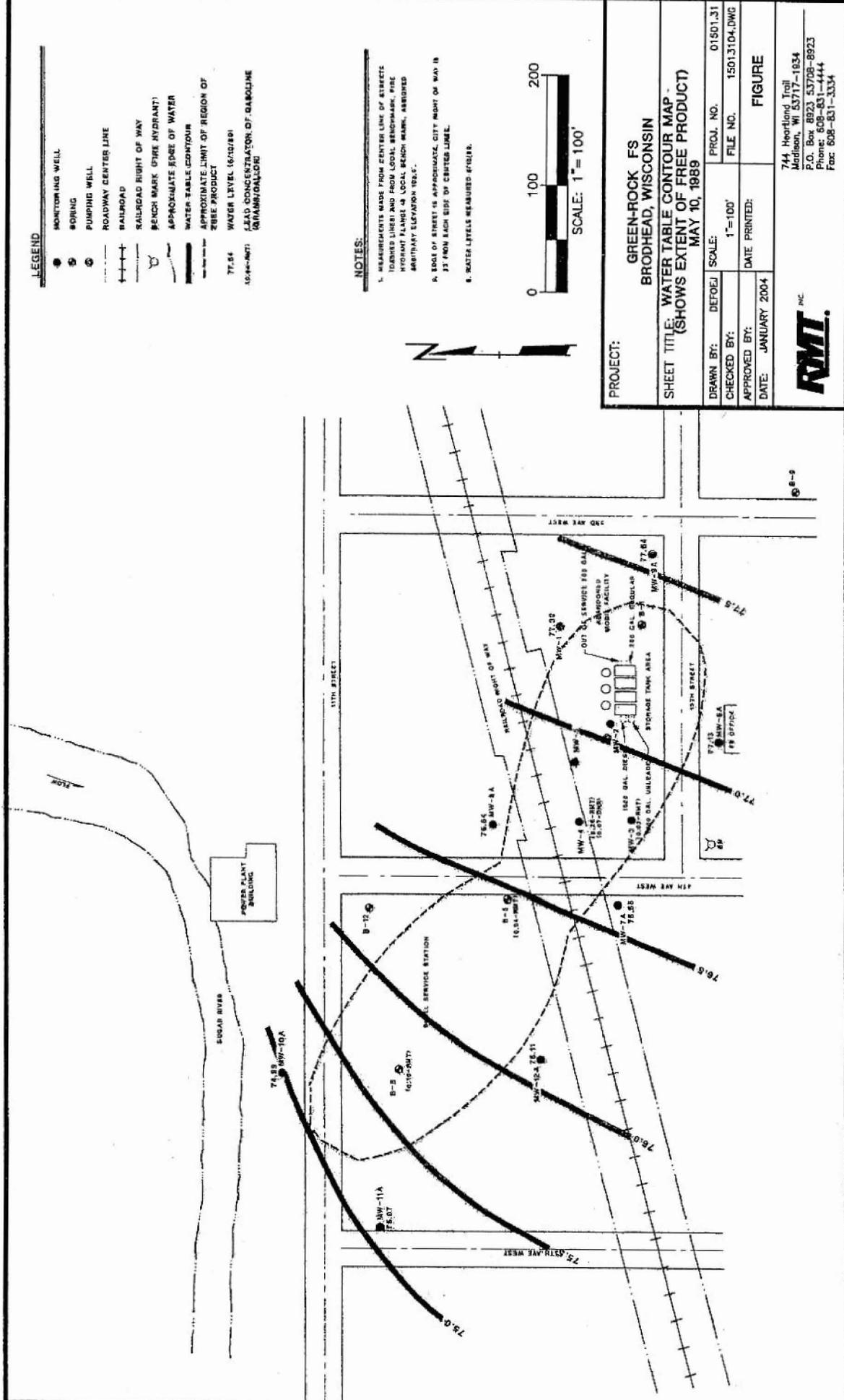
**LEGEND**

● MW-1	MONITORING WELL
⊙ RW-1	PUMPING WELL
---	ROADWAY CENTERLINE
▬▬▬	RAILROAD
⊗	FIRE HYDRANT
⊙	EXISTING MANHOLE
---	RAILROAD RIGHT-OF-WAY
(75.45)	GROUNDWATER ELEVATION
NM	NOT MEASURED
---	GROUNDWATER CONTOUR AND ELEVATION
→	GROUNDWATER FLOW DIRECTION

- NOTES**
1. MEASUREMENTS MADE FROM CENTER LINE OF STREETS (DASHED LINES) AND FROM LOCAL BENCHMARK. FIRE HYDRANT FLANGE IS LOCAL BENCHMARK, ASSIGNED AN ELEVATION OF 100.0'.
  2. EDGE OF STREET IS APPROXIMATE. CITY RIGHT-OF-WAY 33' EACHWAY FROM CENTER LINE
  3. LOCATIONS OF STORM SEWER, MANHOLES AND OUTFALL ARE APPROXIMATE. LOCATIONS BASED ON AN UNDATED SEWER MAP PROVIDED BY THE CITY OF BRODHEAD AND FIELD OBSERVATION BY RMT, INC.
  4. THE WATER ELEVATION IN MW-2 WAS NOT USED BECAUSE OF THE PROXIMITY OF AIR SPARGE WELLS.
  5. THE WATER ELEVATION IN MW-8A WAS NOT USED BECAUSE OF A SUSPECTED ERROR IN SURVEYED REFERENCE ELEVATION

PROJECT:		GREEN-ROCK FS BRODHEAD, WISCONSIN	
SHEET TITLE:		GROUNDWATER FLOW MAP FEBRUARY 27, 2003	
DRAWN BY: DEFDEJ	SCALE:	PROJ. NO.	01501.31
CHECKED BY:	1"=100'	FILE NO.	15013103.DWG
APPROVED BY:	DATE PRINTED:	FIGURE	
DATE: JANUARY 2004			
		744 Heartland Trail Madison, WI 53717-1834 P.O. Box 8923 53708-8923 Phone: 608-831-4444 Fax: 608-831-3334	





Scale = 1:100,000  
 Plot Date = Wed Jan 21 08:54:08 2004  
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