GIS REGISTRY INFORMATION

SITE NAME: Kerr McGee Former Service Station KM-9542

BRRTS #: 03-56-000291 **FID #** 656058040

COMMERCE # (if appropriate**):** 54017-1217-47

CLOSURE DATE: 27-Jan-05

STREET ADDRESS: 447 Knowles Ave.

CITY: New Richmond

SOURCE PROPERTY LOCATIONAL COORDINATES
(meters in WTM91 projection)**:** **X=** 320414 **Y=** 520151

CONTAMINATED MEDIA: Groundwater [ ] Soil [ ] Both [X]

OFF-SOURCE GW CONTAMINATION >ES: [X] **Yes** [ ] **No**

IF YES, STREET ADDRESS 1: 129 High Street (American Legion)

Locational COORDINATES (meters in WTM91 projection)**:** **X=** 320380 **Y=** 520151

IF YES, STREET ADDRESS 2: 256 High Street (Panter Property)

Locational COORDINATES (meters in WTM91 projection)**:** **X=** 320218 **Y=** 520045

IF YES, STREET ADDRESS 3: 201 N. Knowles Avenue (Domain Property)

Locational COORDINATES (meters in WTM91 projection)**:** **X=** 320204 **Y=** 519950

OFF-SOURCE SOIL CONTAMINATION >Generic or Site-Specific RCL (SSRCL): [X] **Yes** [ ] **No**

IF YES, STREET ADDRESS 1: 201 N. Knowles Avenue (Domain Property)

Locational COORDINATES (meters in WTM91 projection)**:** **X=** 320204 **Y=** 519950

CONTAMINATION IN RIGHT OF WAY: [X] **Yes** [ ] **No**

DOCUMENTS NEEDED:

Closure Letter, and any conditional closure 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	X
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)	X
Letter informing ROW owner of residual contamination (if applicable) (public, highway or railroad ROW)	X
Copy of (soil or land use) deed restriction(s) or deed notice *if any required as a condition of closure*	NA

WISCONSIN
DEPT. OF NATURAL RESOURCES

State of Wisconsin \ DEPARTMENT OF NATURAL RESOURCES

Jim Doyle, Governor
Scott Hassett, Secretary
Scott Humrickhouse, Regional Director

Baldwin Service Center
890 Spruce Street
Baldwin, Wisconsin 54002
Telephone 715-684-2914
FAX 715-684-5940
TTY Access via relay - 711

January 27, 2005

Mr. Satya Sinha
Kerr McGee Refining Corporation
123 Robert S. Kerr Avenue
Oklahoma City, Oklahoma 73102

Subject: **Final Case Closure**
Former KMRC Service Station KM-9542,
447 N. Knowles Avenue, New Richmond, Wisconsin
WDNR BRRTS # 03-56-00291

Dear Mr. Sinha:

On September 4, 2003, your request for closure of the case described above was reviewed by the West Central Region Closure Committee. The West Central Region Closure Committee reviews environmental remediation cases for compliance with state rules and statutes to maintain consistency in the closure of these cases. On September 30, 2003, you were notified that conditional closure was granted to this case.

On January 17, 2005, the Department received correspondence indicating that you have complied with the conditions of closure. On that date, well and remediation system abandonment forms were received. In addition, documentation involving the transfer of equipment and monitoring wells was also provided. Based on the correspondence and data provided, it appears your case has been remediated to Department standards in accordance with s. NR 726.05, Wis. Adm. Code. The Department considers this case closed and no further investigation, remediation or other action is required at this time.

Your site will be listed on the DNR Remediation and Redevelopment GIS Registry of Closed Remediation Sites. Information that was submitted with your closure request application will be included on the registry. To review the sites on the GIS Registry web page, visit http://gomapout.dnr.state.wi.us/org/at/et/geo/gwur/index.htm. If your property is listed on the GIS Registry due to groundwater contamination exceeding ch. NR 140 standards at the time of closure, 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 at the web address listed above.

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 715 684-2914, ext.117.

Sincerely,

Patrick J. Collins

Patrick J. Collins
Hydrogeologist
Bureau for Remediation & Redevelopment

cc: Michael Carney – STS
Bill Buell – Domain
Karl Skoglund – Skoglund Oil
FILE

File

State of Wisconsin \ DEPARTMENT OF NATURAL RESOURCES

Jim Doyle, Governor
Scott Hassett, Secretary
Scott Humrickhouse, Regional Director

Baldwin Service Center
890 Spruce Street
Baldwin, Wisconsin 54002
Telephone 715-684-2914
FAX 715-684-5940

September 30, 2003

Mr. Satya Sinha
Kerr McGee Refining Corporation
123 Robert S. Kerr Avenue
Oklahoma City, Oklahoma 73102

Subject: **Conditional Case Closure**
Former KMRC Service Station KM-9542,
447 N. Knowles Avenue, New Richmond, Wisconsin
WDNR BRRTS # 03-56-00291

Dear Mr. Sinha:

On September 4, 2003, your request for closure of the case described above was reviewed by the West Central Region Closure Committee. The West 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 West Central Region Closure Committee has determined that the petroleum contamination on the site from the former underground storage tanks at this facility 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

The monitoring wells, soil vapor extraction wells, air sparging wells and other remediation wells at the site must be properly abandoned in compliance with ch. NR 141, Wis. Adm.. Documentation of well abandonment must be submitted to Patrick Collins on Form 3300-5B found at www.dnr.state.wi.us/org/water/dgw/gw/ or provided by the Department of Natural Resources. In addition, any other equipment including buildings and storage tanks which are still present on the Skoglund or Domain property shall be removed or arrangements made with the property owners for there disposal or reuse. Also, a foundation drain sump is located on the Domain property. The water from this sump had previously been pumped to the treatment building and treated. KMRC shall work with Domain to address the future functionality of that system.

WASTE AND SOIL PILE REMOVAL

Any remaining 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.

When the above conditions have been satisfied, please submit a letter to let me know that applicable conditions have been met, and your case will be closed. Your site will be listed on the DNR Remediation and Redevelopment GIS Registry of Closed Remediation Sites. Information that was submitted with your closure request application will be included on the 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, Wis. Stats., requires that PECFA claimants seeking reimbursement of interest costs, for sites with petroleum contamination, submit a final reimbursement claim within 120 days after they receive a closure letter on their site. For claims not received by the PECFA Program within 120 days of the date of this letter, interest costs after 60 days of the date of this letter will not be eligible for PECFA reimbursement.

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

We appreciate your efforts to restore the environment at this site. If you have any questions regarding this letter, please contact me at 715 684-2914 ext.117.

Sincerely,

Patrick J. Collins

Patrick .J. Collins
Hydrogeologist
Bureau for Remediation & Redevelopment

cc: Michael Carney - STS
Bill Buell - Domain

Wisconsin Department of Natural Resources
STS Project No. 23966XE

Parcel ID No. and GPS Information

Skoglund Property
447 Knowles Avenue
New Richmond, Wisconsin
Tax ID No. 261-1183-95-000
GPS No. 320417,520167

American Legion
129 High Street
New Richmond, Wisconsin
Tax ID No. 261-1183-90-000
GPS No. 320379,520165

James Panter Property
256 High Street
New Richmond, Wisconsin
Tax ID No. 261-1195-90-000
GPS No. 320218,520045

Domain Property – Lot #2
201 N. Knowles Avenue
New Richmond, Wisconsin
Tax ID No. 261-1195-40-000
GPS No. 320204,519950

Right-of-Way for City of New Richmond
High Street and Canadian National Railroad
GPS No. 320355,520135

VOL 1500 PAGE 488

10

Document Number

STATE BAR OF WISCONSIN FORM 3 - 1999

QUIT CLAIM DEED

620757
KATHLEEN H. WALSH
REGISTER OF DEEDS
ST. CROIX CO., WI

RECEIVED FOR RECORD

04-05-2000 10:10 AM

QUIT CLAIM DEED
EXEMPT #: 15M
CERT COPY FEE:
COPY FEE:
TRANSFER FEE:
RECORDING FEE: 10.00
PAGES: 1

This Deed, made between **Karl A. Skoglund and Stephen L. Skoglund**

Grantor, and **Skoglund Properties, LLP**

Grantee.

Grantor quit claims to Grantee the following described real estate in **St. Croix** County, State of Wisconsin (if more space is needed, please attach addendum):

Parcel 1: South 100 feet of East 106.5 feet of Outlot 332 of Outlot Plat of the City of New Richmond, St. Croix County, Wisconsin except part to the City of New Richmond in Vol. 589, Page 373, Document No. 355030.

Parcel 2: North 48 1/2 feet of East 106.5 feet of Outlot 332 of Outlot Plat of the City of New Richmond, St. Croix County, Wisconsin.

Recording Area

Name and Return Address
BAKKE NORMAN S C
900 MAIN STREET
P O BOX 54
BALDWIN WI 54002

E

261-1183-95
Parcel Identification Number (PIN)

This **is not** homestead property.
(is) (is not)

Together with all appurtenant rights, title and interests.

Dated this 3rd day of ~~March~~ April, 2000.

Karl A. Skoglund

Stephen L. Skoglund

AUTHENTICATION

Signature(s) **Karl A. Skoglund and Stephen L. Skoglund**

authenticated this ____ day of **March** , **2000**

*

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

THIS INSTRUMENT WAS DRAFTED BY
Thomas R. Schumacher
Baldwin, Wisconsin

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

ACKNOWLEDGMENT

STATE OF WISCONSIN)
) ss.
ST. CROIX County)

Personally came before me this 3rd day of ~~March~~ April, **2000** the above named **Karl A. Skoglund and Stephen L. Skoglund**

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

Ann M. Clarkson

Notary Public, State of Wisconsin
My Commission is permanent. (If not, state expiration date: November 24, 2002.)

* Names of persons signing in any capacity must be typed or printed below their signature.

QUIT CLAIM DEED — STATE BAR OF WISCONSIN FORM No. 3 - 1999

Information Professionals Company, Fond du Lac, WI 800-655-2021

ANN M. CLARKSON
Notary Public – State of Wisconsin

WARRANTY DEED—By Corporation (Common Form) STATE OF WISCONSIN Miller-Davis Co., Minneapolis

Form No. 2-W

288407 BOOK 433 PAGE 60

This Indenture, *Made this* 26th *day of* April *A. D. 19* 67 *, between* Noble's Tire Service, Inc. a Wisconsin Corporation *a Corporation duly organized and existing under and by virtue of the laws of the* State of Wisconsin *, located at* 126 West 3rd St. New Richmond, *Wisconsin, party of the first part, and* Butler-Harmon Post No.80, American Legion New Richmond, Wisconsin *party of the second part.*

Witnesseth, *That the said party of the first part, for and in consideration of the sum of*

Four Thousand Dollars ($4000.00)

to it paid by the said party of the second part, the receipt whereof is hereby confessed and acknowledged, has given, granted, bargained, sold, remised, released, aliened, conveyed and confirmed, and by these presents does give, grant, bargain, sell, remise, release, alien, convey and confirm unto the said party of the second part, its *heirs and assigns, forever, the following described real estate, situated in the County of* St Croix *and State of Wisconsin, to-wit:*

Part of Outlot 332 of the Outlot Map of City of New Richmond described as follows, to-wit:

Commencing 64 feet East of the Southwest Corner of Outlot "332" of the Outlot Map of the City of New Richmond; thence North 9 rods; thence East 85 feet; thence South 9 rods; thence West 85 feet to place of beginning

Together with all and singular the hereditaments and appurtenances thereunto belonging or in any wise appertaining; and all the estate, right, title, interest, claim or demand whatsoever, of the said party of the first part, either in law or equity, either in possession or expectancy of, in and to the above bargained premises, and their hereditaments and appurtenances.

To Have and to Hold the said premises as above described with the hereditaments and appurtenances, unto the said party of the second part, and to its heirs and assigns, FOREVER.

And the Said Noble's Tire Service Inc.

party of the first part, for itself and its successors, does covenant, grant, bargain and agree to and with the said part y of the second part, its heirs and assigns, that at the time of the ensealing and delivery of these presents it is well seized of the premises above described, as of a good, sure, perfect, absolute and indefeasible estate of inheritance in the law, in fee simple, and that the same are free and clear from all incumbrances whatever,

and that the above bargained premises in the quiet and peaceable possession of the said part y of the second part, its heirs and assigns, against all and every person or persons lawfully claiming the whole or any part thereof, it will forever WARRANT AND DEFEND.

In Witness Whereof, the said party of the first part, has caused these presents to be signed by James A. Stephens its President, and countersigned by Helen L. Stephens, its Secretary, at New Richmond, Wisconsin, and its corporate seal to be hereunto affixed this 26th day of April, A. D. 19 67.

Signed and Sealed in Presence of

Wm. W. Ward

Wm. W. Ward

Lorene Johnson

Lorene Johnson

Noble's Tire Service Inc.

Corporate Name

James A. Stephens

James A. Stephens President

Countersigned:

Helen L. Stephens

Helen L. Stephens Secretary

State of Wisconsin,) ss.

St. Croix County

Personally came before me, this 26th *day of* April *A. D. 19* 67, James A. Stephens *President, and* Helen L. Stephens *Secretary of the above named Corporation, to me known to be the persons who executed the foregoing instrument, and to me known to be such President and Secretary of said Corporation, and acknowledged that they executed the foregoing instrument as such officers as the deed of said Corporation, by its authority.*

Wm. W. Ward

Wm. W. Ward

Notary Public, St. Croix *County, Wis.*

My commission expires Permanent *A. D. 19*

Drawn by Wm. W. Ward

No. 288407

TO

WARRANTY DEED

By Corporation (Common Form)

REGISTER'S OFFICE

State of Wisconsin,

St. Croix County

Received for Record this 25th *day of* May, *A. D. 19* 67, *at* 9:00 *o'clock A. M., and recorded in Vol.* 433 *of Deeds, on page* 60 & 61

David Hope

Register of Deeds

$1.50

Wm. W. Ward

Deputy

WILLER DAVIS COMPANY, MINNEAPOLIS

BOOK 433 PAGE 61

DOCUMENT NO.

495497

WARRANTY DEED
STATE BAR OF WISCONSIN FORM 2 — 1982

VOL 994 PAGE 534

THIS SPACE RESERVED FOR RECORDING DATA

REGISTER'S OFFICE
ST. CROIX CO., WI
Rec'd for Record
FEB 26 1993
at 11:40 A. M
Register of Deeds

RETURN TO

David C. Sharretts, husband of Linda K. Sharretts

conveys and warrants to James J. Panter, a single person

the following described real estate in St. Croix County, State of Wisconsin:

Tax Parcel No: .....

Outlot "405" of Outlot Plat of the City of New Richmond, St Croix County, Wisconsin EXCEPT the Railroad Right of Way.

Also, all that part of North Dakota Avenue as platted which lies adjacent to and 330 feet South of High Street, except the railroad right-of-way, more particularly described as follows: Commencing at the Northeast corner of Outlot "405"; thence Easterly along the South right-of-way of High Street 66 feet to the Northwest corner of Outlot "404"; thence Southerly along the Western boundary of Outlot "404" 330 feet to the Southwest corner of Outlot "404"; thence Westerly 66 feet to the Southeast corner of Outlot "405"; thence Northerly along the Eastern boundary of Outlot "405" 330 feet to the point of beginning except the railroad right-of-way.

TRANSFER
$ 141.00
EEB

This is homestead property.
(is) (is not)

Exception to warranties: easements, restrictions and rights-of-way of record, if any.

Dated this 26th day of February, 1993

David L Sharretts (SEAL)
David C. Sharretts *

(SEAL) *

(SEAL) *

(SEAL) *

AUTHENTICATION

Signature(s) David C. Sharretts

authenticated this 26th day of February, 19 93

Kristina Ogland *

TITLE: MEMBER STATE BAR OF WISCONSIN

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

THIS INSTRUMENT WAS DRAFTED BY
Kristina Ogland
Attorney at Law

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

ACKNOWLEDGMENT

STATE OF WISCONSIN } ss.
.....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 .....)

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

12

DOCUMENT NO.	STATE BAR OF WISCONSIN FORM 1 - 1982 WARRANTY DEED

632899
KATHLEEN H. WALSH
REGISTER OF DEEDS
ST. CROIX CO., WI

RECEIVED FOR RECORD

11-02-2000 9:30 AM

WARRANTY DEED
EXEMPT #: 15S
CERT COPY FEE:
COPY FEE:
TRANSFER FEE:
RECORDING FEE: 12.00
PAGES: 2

THIS SPACE RESERVED FOR RECORDING DATA

OLD REPUBLIC TITLE
400 SECOND AVE. SO.
MINNEAPOLIS, MN 55401

This Deed, made between Domain, Inc., a Wisconsin corporation, Grantor, and Willow River Properties, LLC , Grantee, a Wisconsin limited liability company,

Witnesseth, That the said Grantor, for a valuable consideration _____

conveys to Grantee the following described real estate in St. Croix County, State of Wisconsin:
See Exhibit A attached hereto and incorporated herein by reference.

Part of 261-1195-70-000, 261-1195-40-000, 261-1195-60-000, 261-1083-10-100, and 261-1083-95-000
PARCEL IDENTIFICATION NUMBER

This _____ is not _____ homestead property.
(is) (is not)

Together with all and singular the hereditaments and appurtenances thereunto belonging:
And _____
warrants that the title is good, indefeasible in fee simple and free and clear of encumbrances except all easements, restrictions, reservations and all other matters of record, except liens and mortgages securing or evidencing indebtedness or similar monetary obligations,

and will warrant and defend the same.

Dated this 24th day of October, 2000.

_____ (SEAL)
* _____

_____ (SEAL)
* _____

Domain, Inc., a Wisconsin corporation
By: William L. Buell (SEAL)
* William L. Buell
Its: Chief Executive Officer

_____ (SEAL)
* _____

AUTHENTICATION

Signature(s) _____

_____

authenticated this _____ day of _____, 2000

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

THIS INSTRUMENT WAS DRAFTED BY:

Lindquist & Vennum P.L.L.P. (MSM), 4200 IDS Center

80 South Eighth Street, Minneapolis, MN 55402

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

ACKNOWLEDGMENT

State of Wisconsin,)
) ss.
St Croix County.)

Personally came before me this 24 day of October, 2000 the above named William L. Buell, Chief Executive Officer of Domain, Inc., a Wisconsin corporation, to me known to be the person who executed the foregoing instrument and acknowledge the same.

LINDA L. MILLER NOTARY PUBLIC State of Wisconsin

_____
* Linda L. Miller
Notary Public, St Croix County, Wis.
My commission is permanent. (If not, state expiration date: 06/20/2004, 2000.)

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

EXHIBIT A

Legal Description

Lot 1 of Certified Survey Map recorded in Volume 14 of Certified Survey Maps, page 3938, as Document No. 628774.

Together with an easement for ingress and egress over and across constructed roadways and driveways as located on Lot 2 of Certified Survey Map recorded in Volume 14 of Certified Survey Maps, page 3938, as Document No. 628774.

Wisconsin Department of Natural Resources
STS Project No. 23966XE

Certified Survey Map Including:

James Panter Property
256 High Street
New Richmond, Wisconsin

Domain Property – Lot #2
201 N. Knowles Avenue
New Richmond, Wisconsin

Plat Map Including:

Skoglund Property
447 Knowles Property
New Richmond, Wisconsin

American Legion
129 High Street
New Richmond, Wisconsin

Note: Deeds are not required for City of New Richmond or Canadian National Railroad Right-of-Way Notification.

709369

VOL 17 PAGE 4459
KATHLEEN H. WALSH
REGISTER OF DEEDS
ST. CROIX CO., WI
RECEIVED FOR RECORD
02/12/2003 03:15PM
REC FEE: 13.00
COPY FEE: 3.00
PAGES: 2

CERTIFIED SURVEY MAP

LOCATED IN PART OF THE SW1/4 OF THE SW1/4 AND IN PART OF THE SE1/4 OF THE SW1/4 OF SECTION 36, T31N, R18W, CITY OF NEW RICHMOND, ST. CROIX COUNTY, WISCONSIN.

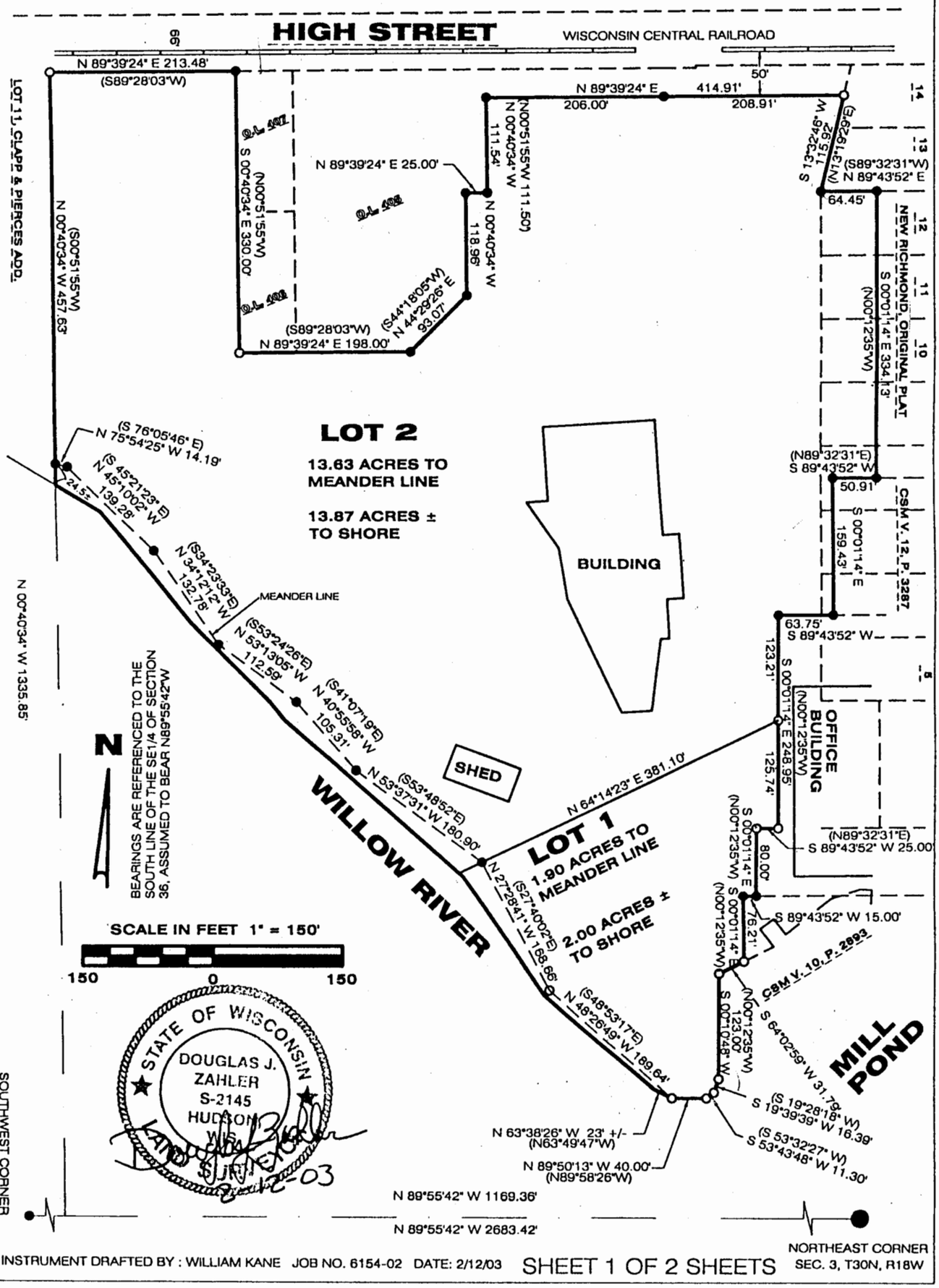
NOTE: THIS CERTIFIED SURVEY MAP CORRECTS AND REPLACES THAT CERTIFIED SURVEY MAP RECORDED IN VOLUME 14, PAGE 3938, AT THE ST. CROIX COUNTY REGISTER OF DEEDS OFFICE. NO NEW OR ADDITIONAL LOTS ARE BEING CREATED.

LEGEND

- ● 2" IRON PIPE FOUND
- • 1" IRON PIPE FOUND
- o 1" X 24" IRON PIPE SET WEIGHING 1.13 LBS. PER LINEAR FOOT

SURVEYOR:
DOUGLAS J. ZAHLER
S & N LAND SURVEYING, INC.
2920 ENLOE STREET
HUDSON, WI 54016

PREPARED FOR:
DOMAIN INC.
201 KNOWLES AVE.
NEW RICHMOND, WI 54017



THIS INSTRUMENT DRAFTED BY : WILLIAM KANE JOB NO. 6154-02 DATE: 2/12/03 SHEET 1 OF 2 SHEETS

CERTIFIED SURVEY MAP

LOCATED IN PART OF THE SW1/4 OF THE SW1/4 AND IN PART OF THE SE1/4 OF THE SW1/4 OF SECTION 36, T31N, R18W, CITY OF NEW RICHMOND, ST. CROIX COUNTY, WISCONSIN. THIS CERTIFIED SURVEY MAP CORRECTS AND REPLACES THAT CERTIFIED SURVEY MAP RECORDED IN VOLUME 14, PAGE 3938, AT THE ST. CROIX COUNTY REGISTER OF DEEDS OFFICE.

SURVEYOR:

DOUGLAS J. ZAHLER
S & N LAND SURVEYING, INC.
2920 ENLOE STREET
HUDSON, WI 54016

PREPARED FOR:

DOMAIN INC.
201 KNOWLES AVE.
NEW RICHMOND, WI 54017

NOTE: THIS CERTIFIED SURVEY MAP CORRECTS AND REPLACES THAT CERTIFIED SURVEY MAP RECORDED IN VOLUME 14, PAGE 3938, AT THE ST. CROIX COUNTY REGISTER OF DEEDS OFFICE. NO NEW OR ADDITIONAL LOTS ARE BEING CREATED.

SURVEYOR'S CERTIFICATE

A parcel of land located in part of the Southeast Quarter of the Southwest Quarter and part of the Southwest Quarter of the Southwest Quarter of Section 36, T31N, R18W, City of New Richmond, St. Croix County, Wisconsin; also being a part of Outlot 403 and Outlot 404 of the Assessors plat, and part of Lots, 5,6,7,8,9,10,11,12,13 and 14 of the original plat of New Richmond; described as follows:

Commencing at the northeast corner of Section 3, T30N, R18W; thence along the south line of the Southwest Quarter of said Section 36 N89°55'42"W 1169.36 feet; thence N00°40'34"W 1335.85 feet to the south line of High Street and the Point Of Beginning; thence along the south line of High Street N89°39'24"E 213.48 feet; thence along the west line of Outlots 407 and 406 S00°40'34"E 330.00 feet; thence along the south line of Outlots 406 and 405 N89°39'24"E 198.00 feet; thence N44°29'26"E 93.07 feet; thence along the west line of Outlot 404 N00°40'34"W 118.96 feet; thence N89°39'24"E 25.00 feet; thence N00°40'34"W 111.54 feet; thence N89°39'24"E 414.91 feet; thence S13°32'46"W 115.92 feet; thence along the north line of said Lot 12 N89°43'52"E 64.45 feet; thence S00°01'14"E 334.13 feet; thence along the north line of Lot 1 of Certified Survey Map Volume 12, Page 3287 S89°43'52"W 50.91 feet; thence along the west line of said Lot 1 S00°01'14"E 159.43 feet; thence S89°43'52"W 63.75 feet; thence S00°01'14"E 248.95 feet; thence S89°43'52"W 25.00 feet; thence S00°01'14"E 80.00 feet; thence S89°43'52"W 15.00 feet; thence S00°01'14"E 76.21 feet; thence along the northerly line of Lot 1 of Certified Survey Map Volume 10, Page 2893 S64°02'59"W 31.79 feet; thence along the westerly line of last said Lot 1 S00°10'48"W 123.00 feet; thence continuing along said lot line S19°39'39"W 16.39 feet; thence continuing along said lot line S53°43'48"W 11.30 feet; thence continuing along said lot line N89°50'13"W 40.00 feet to the beginning of a meander line along the northerly shore of the Willow River; thence along said meander line N48°26'49"W 189.64 feet; thence N27°28'41"W 168.66 feet; thence N53°37'31"W 180.90 feet; thence N40°55'58"W 105.31 feet; thence N53°13'05"W 112.59 feet; thence N34°12'12"W 132.78 feet; thence N45°10'02"W 139.28 feet; thence N75°54'25"W 14.19 feet to the end of said meander line; thence along the east line of Lot 11 of Clapp and Pierce's Addition N00°40'34"W 457.63 feet to the point of beginning. Including all land lying between said meander line and the water's edge of the Willow River which lies northerly of a line bearing N63°38'26"W from the beginning of said meander line and easterly of a line bearing S00°40'34"E from the end of said meander line. Containing 15.52 acres to the meander line. Subject to all easements, restrictions and covenants of record.

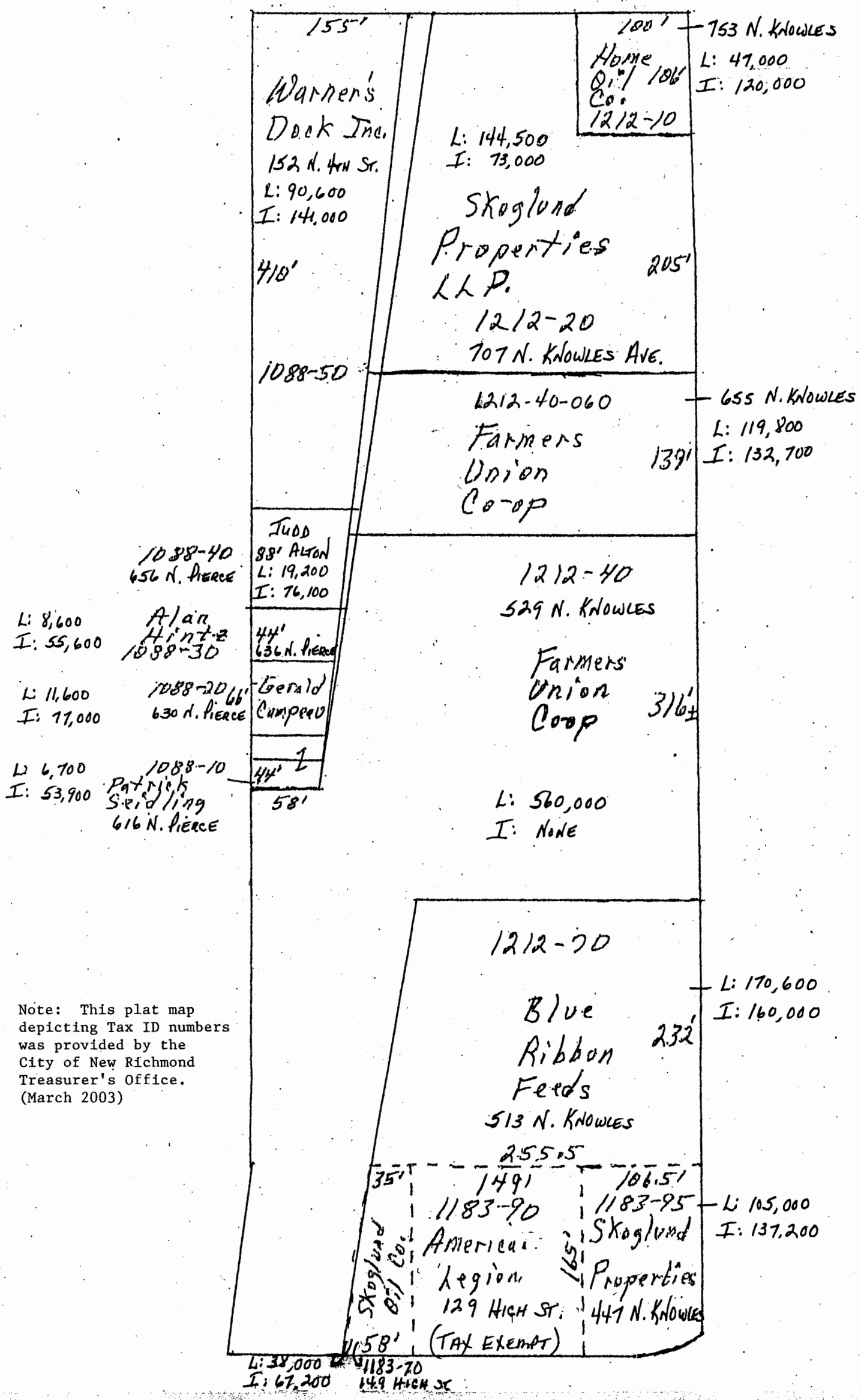
Douglas J. Zahler RLS 2145
S & N Land Surveying
2920 Enloe St.
Hudson, WI 54016

STATE OF WISCONSIN
DOUGLAS J. ZAHLER
S-2145
HUDSON, WIS.
LAND SURVEYOR

2-12-03
Date

THIS INSTRUMENT DRAFTED BY : WILLIAM KANE JOB NO. 6154-02 DATE: 2/12/03

SHEET 2 OF 2 SHEETS



Note: This plat map depicting Tax ID numbers was provided by the City of New Richmond Treasurer's Office. (March 2003)

(6)

Case Summary and Closure Justification
Kerr-McGee Refining Corporation
Former Service Station KM-9542
447 North Knowles Avenue
New Richmond, Wisconsin
WDNR BRRTS No. 03-56-000291

The Kerr-McGee Refining Corporation (KMRC) former service station (KM-9542) is located at 447 North Knowles Avenue, New Richmond, Wisconsin. The project site is located in the Southeast 1/4, Southwest 1/4, Section 36, T31N, and R18W, St. Croix County, Wisconsin. Figure 1 (Attachment B) depicts the location of the site on a portion of a United States Geological Survey 7.5-minute series topographical quadrangle map of New Richmond North and New Richmond South, Wisconsin. The site is currently owned and operated by Skoglund Oil Company as a retail service station.

Land use in the area of the site is generally commercial with a feed mill located to the north, a railroad depot located south across High Street, a mixture of commercial businesses located east across Knowles Avenue, and a VFW facility located west of the site. The Domain Complex, an agricultural supply facility, is located southwest of the former service station property.

The topography is generally flat near the Skoglund Service Station at the northwest intersection of North Knowles Avenue and High Street and slopes approximately 10 to 12 feet southwest toward the Domain Complex, then west toward the Willow River.

Groundwater at the site occurs at a depth of approximately 14 to 16 feet below ground surface (bgs). The regional groundwater flow direction is generally west-southwest toward the St. Croix River. The local groundwater flow direction is generally southwest toward the Willow River. Figures 2A through 2C depict groundwater conditions based on quarterly groundwater elevations recorded in 2002 (Attachment B). Based on historical groundwater elevations, groundwater flow across the site has consistently been southwest toward the Willow River.

The site area is underlain by glacial drift deposits consisting of fine to coarse sands with gravel (Young and Hindall, 1973) ranging in thickness from 5 to over 30 feet. The area northwest of the Domain Complex is characterized by a saturated permeable sand unit approximately 6 feet thick, overlying bedrock. Bedrock occurs at a depth of approximately 25 feet bgs in this area. The area west-southwest of the Domain Complex is comprised primarily of organic silts and clays grading to silty sands and sand adjacent to the Willow River. Bedrock occurs at a depth of less than 10 feet in this area. Bedrock at the site consists of undifferentiated dolomite and sandstone of the Prairie du Chien group (Ordovician). The sandstone and dolomites of the Prairie de Chien group are underlain by Cambrian sandstone, including undifferentiated formations (e.g., Jordan Sandstone). The City of New Richmond has a water supply well located approximately 700 feet directly west of the Skoglund service station, which is cased to a depth of approximately 349 feet with an open hole to a depth of 802 feet in the Cambrian sandstone aquifer. It is our understanding that this municipal well has not been used for a City water supply since 1990 and has only been used intermittently as a secondary water supply for a local industry.

In September 1989, KMRC removed underground storage tanks (USTs) at the former KMRC service station located at the northwest corner of the intersection of High Street and North Knowles Avenue. Approximately 830 cubic yards of petroleum-impacted soils were excavated and disposed of during tank removal activities. Subsequent site investigation remedial activities are summarized below.

- October 1989 - KMRC conducted investigation activities including 3 test pits and the drilling and sampling of 32 soil borings, 15 of which were converted to groundwater monitoring wells. A soil vapor extraction (SVE) system and a free product recovery trench were installed on the Domain Complex property. The SVE system was initially installed south of the Domain Complex building, and the product recovery trench was installed north of the building. Additional petroleum-impacted soil (approximately 1,700 cubic yards) was excavated during installation of the product recovery trench located on the Domain Complex property. This petroleum-impacted soil was disposed of at the Monarch Asphalt plant.

- February to April 1990 - Over 20,000 gallons of free product were recovered. An additional 2,800 gallons of free product were recovered from June to April 1993.
- April 1991 - A second groundwater recovery trench was installed southwest of the Domain Complex in the truck parking facility.
- 1991 through 1997 - Operation of groundwater and SVE remediation systems. In addition, extensive groundwater data collection and analytical monitoring was conducted.
- April 1997 - Groundwater recovery was discontinued from Recovery Well RS-1 located in the original product recovery trench. Extraction and treatment from a new sump, which connected a drain tile from around the new Domain Complex addition, was initiated.
- May 1998 - STS Consultants, Ltd. (STS) was retained by KMRC to operate and maintain the remediation systems on site, perform site monitoring to assess current groundwater conditions, and prepare a site closure plan.
- March 1999 - Based on a review of site-specific hydrogeologic and geochemical data, the groundwater and vapor extraction systems were shut off on March 31, 1999. A natural attenuation monitoring program for groundwater was initiated. In addition, two groundwater monitoring wells were installed adjacent to the Willow River, downgradient of the former groundwater recovery trench.
- April 1999 - Based on detections of benzene above the Enforcement Standard (ES) in groundwater collected from Monitoring Wells MW-64 and MW-65 (located adjacent to the Willow River), STS provided recommendations for remedial action to supplement the natural attenuation program.
- September 1999 - Design plans and specifications for an SVE and groundwater sparging system were provided to the Wisconsin Department of Natural Resources (WDNR) to address groundwater impacts in the area adjacent to the former recovery trench south-southwest of the Domain Complex.

- November 1999 through January 2002 - Operation of the SVE and groundwater sparging system was conducted in conjunction with natural attenuation groundwater monitoring activities. The remedial action was discontinued in January 2002, with ongoing natural attenuation monitoring of groundwater continuing through October 2002.

- January 2002 through October 2002 - After the remedial action was discontinued, groundwater monitoring was conducted in January, April, August, and October 2002 to confirm current groundwater conditions. Based on groundwater elevation data collected in April, August, and October 2002, groundwater contour maps were prepared as Figures 2A, 2B, and 2C, respectively (Attachment B). As indicated on these figures, the groundwater flow direction is generally southwest toward the Willow River.

  Table 2 (Attachments B and F) provides a summary of groundwater analytical results from site assessment through October 24, 2002. Results of groundwater monitoring indicated Wisconsin Administrative Code NR 140 ES exceedances in groundwater Monitoring Wells MW-5, MW-13, MW-15, MW-53, MW-57, MW-58, MW-59, MW-60, MW-62, MW-63, and MW-66. In addition, Wisconsin Administrative Code NR 140 Preventive Action Limits (PALs) currently exist in Monitoring Wells MW-14, MW-17, and PZ-2. No PAL exceedance was reported during the October 2002 groundwater monitoring event in Monitoring Wells MW-64, MW-65, SW-1, or SW-2, which are located adjacent to the Willow River. Figures 5 through 18 (Attachment H) graphically depict benzene concentration versus time. As indicated on these figures, benzene concentrations in these monitoring wells are generally stable or decreasing over time.

  Based on results of groundwater monitoring and concentrations of petroleum volatile organic compounds (PVOCs) exceeding Wisconsin Administrative Code NR 140 ES, the approximate area of remaining groundwater impact is depicted on Figure 3 (Attachments B and F).

- May 2003 – Based on conversations with Mr. Pat Collins (WDNR), confirmatory soil samples were collected in the area of the groundwater recovery trench located adjacent to the Domain Complex and in the area south-southwest of the Domain Complex in the truck parking area.

  As requested by Mr. Pat Collins of the WDNR, STS advanced soil probes on May 13, 2003, in the area near the former groundwater/product recovery trench and in the truck parking area of the Domain Complex. Soil probes were advanced to 4 feet bgs using conventional hand auger methods. Soil samples were collected at 1-foot intervals to the termination depth of each probe and screened with a photoionization detector (PID). Select soil samples from each soil probe were collected in proper laboratory containers, stored on ice, and submitted to USFilter/Enviroscan (US Filter) for PVOC and naphthalene analyses. Table 3 summarizes results of field and analytical test results of soil. No soil sample had PID screening results exceeding 1 PID unit. Analytical results for soil indicate benzene exceeds the Wisconsin Administrative Code NR 720 Table 1 Residual Contaminant Level in confirmatory Soil Samples CS-1 and CS-2. Confirmatory soil sample locations are depicted on Figure 4 (Attachment E).

On May 13, 2003, STS also collected one groundwater sample from the Domain sump, which was installed during construction of the new addition to the Domain Complex. This sump is connected to the building drain tile. Analytical test results indicate no detectible concentrations of any PVOC compounds above the method detection level.

STS is recommending closure of this site based on the following:

1. The removal and disposal of impacted soils associated with the former UST system during UST decommissioning activities in 1989.

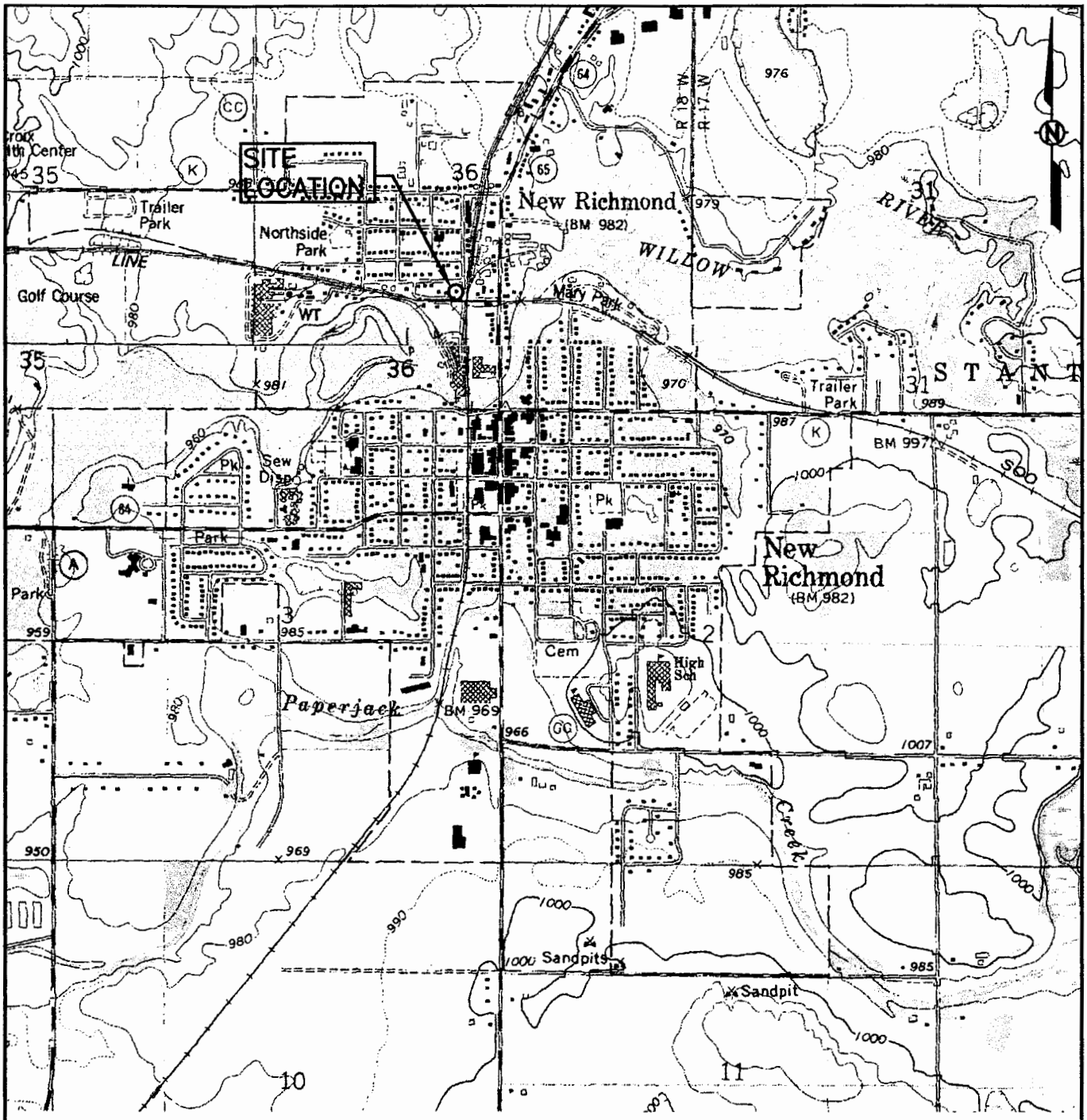
2. Removal of residual hydrocarbon mass using SVE systems that reduced concentrations of petroleum compounds in the unsaturated zone to non-detectable concentration levels in the vapor extraction wells.

3. Groundwater treatment and free product recovery with a groundwater extraction and treatment system removed approximately 22,800 gallons of free-phase product. No free-phase product has been detected in any well since December 1993.

4. Results of groundwater monitoring indicate the residual groundwater impacts associated with the site have been defined and analytical results indicate stable or decreasing concentrations of PVOCs in groundwater. In addition, there has been no detection of PVOC compounds in groundwater sampled from downgradient monitoring wells located adjacent to the Willow River during the last five sampling events.

5. The City of New Richmond owns a municipal well (City Well No. 3), which has not been used for a City water supply since 1990 and has only been used intermittently as a secondary water supply for a local industry. The City Well is approximately 330 feet sidegradient of the remaining apparent groundwater impacts and is cased to a depth of approximately 350 feet, with an open hole depth of approximately 800 feet in the Cambrian sandstone aquifer. Groundwater samples from City Well No. 3 have been collected from February 1990 through October 2002. The frequency of sampling was quarterly for seven consecutive years (1996 through 2002). Other than one anomalous sampling event in April 2000, there has not been any detection of PVOC compounds in water sampled from this well. The anomalous detection in the April 2000 event was below the PAL stipulated in NR 140, Wisconsin Administrative Code, and was attributed to sample contamination either in the field or laboratory.

Based on the information provided above, we recommend no further action and site closure according to Wisconsin Administrative Code NR 726.05(2)(b). As requested by the WDNR, STS is providing information to include this site on the WDNR Soil and Groundwater GIS Registry of closed sites because ES exceedances remain in groundwater and groundwater pathway RCLs for benzene are exceeded in soil.



SCALE

1 0 1 MILE

1000 0 1000 2000 3000 4000 5000 6000 7000 FEET

1 .5 0 1 KILOMETER

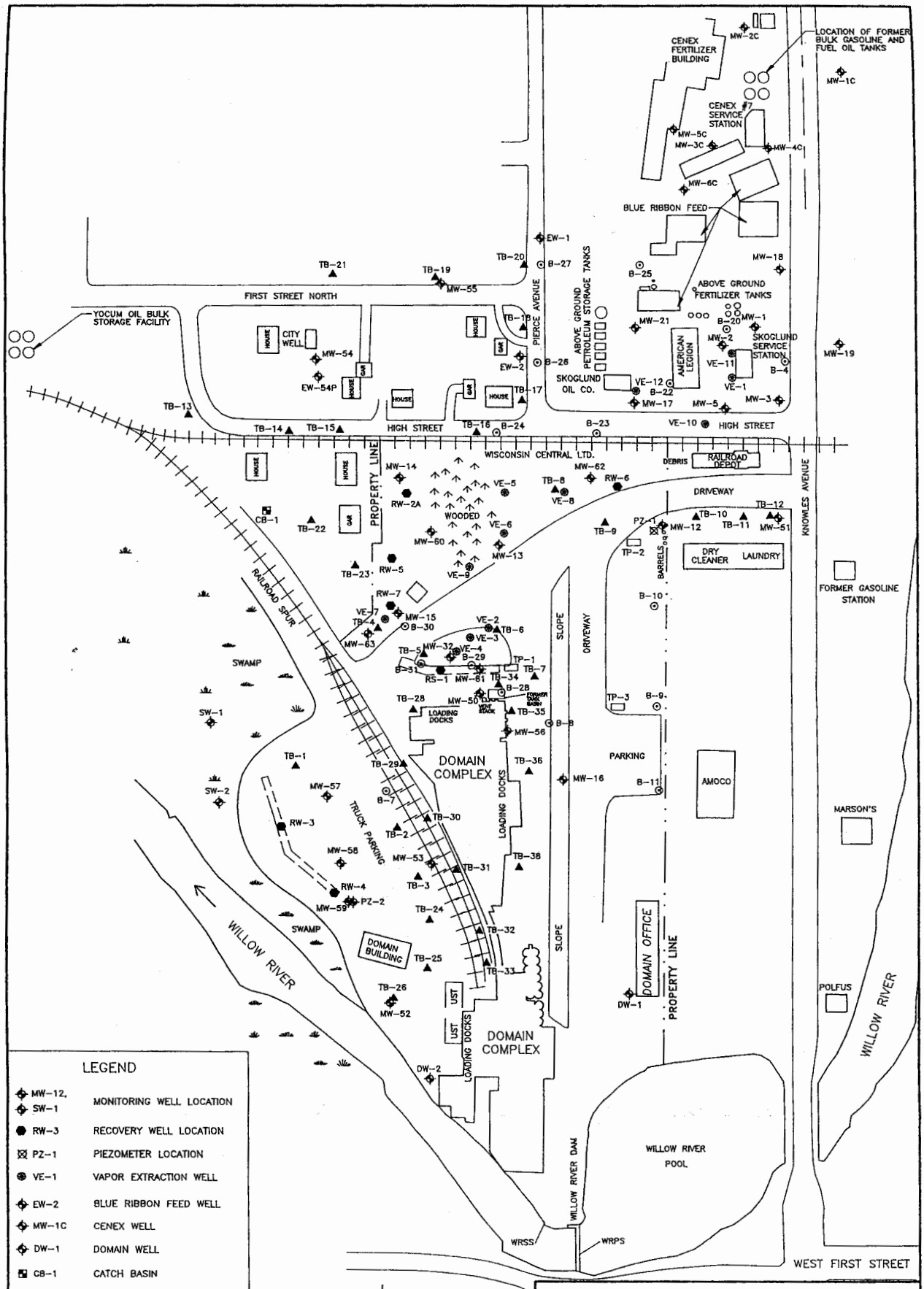
MAP SOURCE: MODIFIED FROM NEW RICHMOND SOUTH, WISCONSIN QUADRANGLES, DATED 1974

STS Consultants Ltd.
Consulting Engineers
1035 Kepler Dr.
Green Bay, WI 54311
920.468.1978

SITE LOCATION DIAGRAM
KERR-McGEE REFINING CORPORATION
FORMER SERVICE STATION KMN-9542
NEW RICHMOND, WISCONSIN

DESIGNED BY	MJC	08/12/03
DRAWN BY	JMR	08/12/03
APPROVED BY		
CADFILE	SCALE	AS SHOWN
STS PROJECT NO. 23966XE	FIGURE NO.	1

X:\PROJECTS\Dwg2003\23966\XE\G423966XE01.dwg, 8/12/2003 1:24:24 PM, reinoe, HP DesiJet 1220C Printer (temporary).pc3



SKOGLUND/DOMAIN SITE
NEW RICHMOND, WISCONSIN

SITE MAP

DATE	REVISED
3/30/94	DJS

PREPARED BY:
LEGGETTE, BRASHEARS & GRAHAM, INC.
Professional Ground-Water Consultants
Northpark Corporate Center
1210 W. County Road E, Suite 700
St. Paul, MN 55112
(612) 490-1405

FILE: 3KMNR03Q.DWG DATE: APRIL 1994 FIGURE: I. A-2

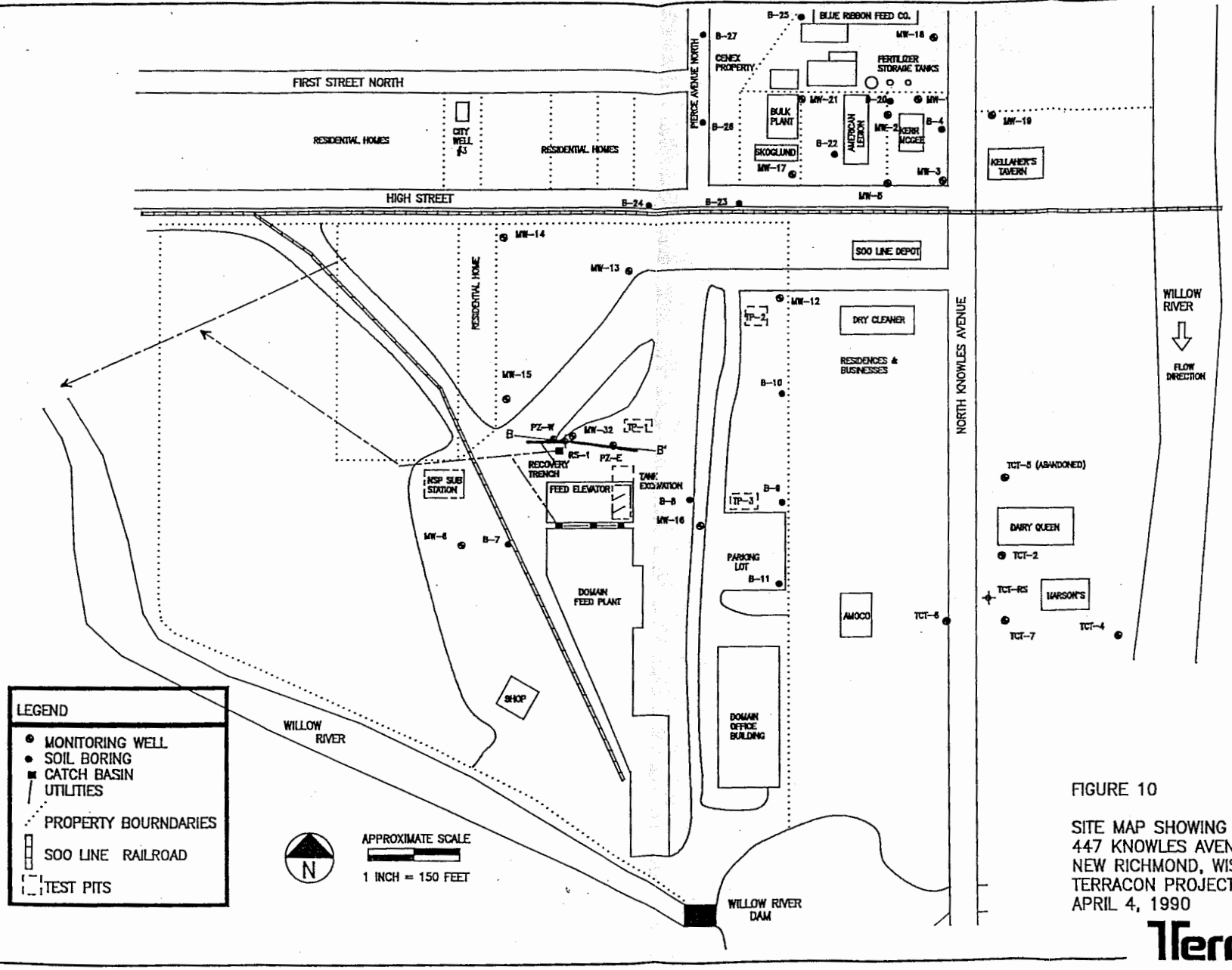


FIGURE 10

SITE MAP SHOWING RECOVERY TRENCH
447 KNOWLES AVENUE
NEW RICHMOND, WISCONSIN
TERRACON PROJECT NO. 41895071
APRIL 4, 1990

Terracon

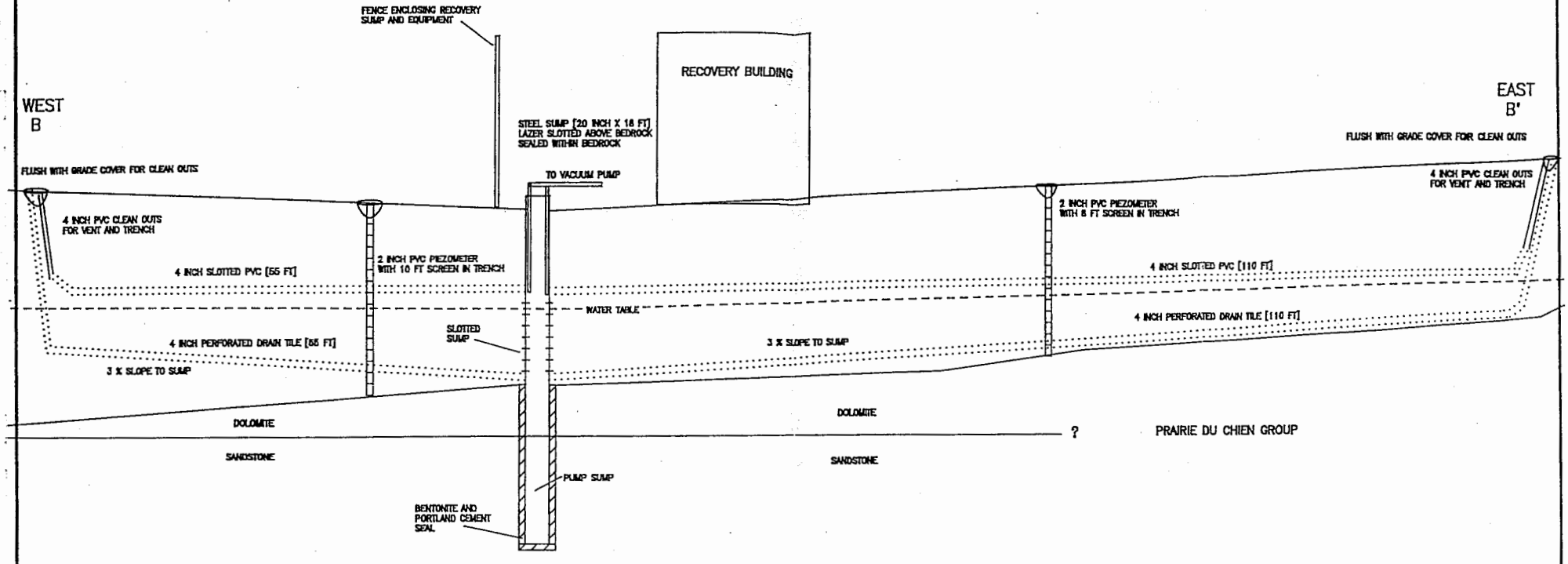
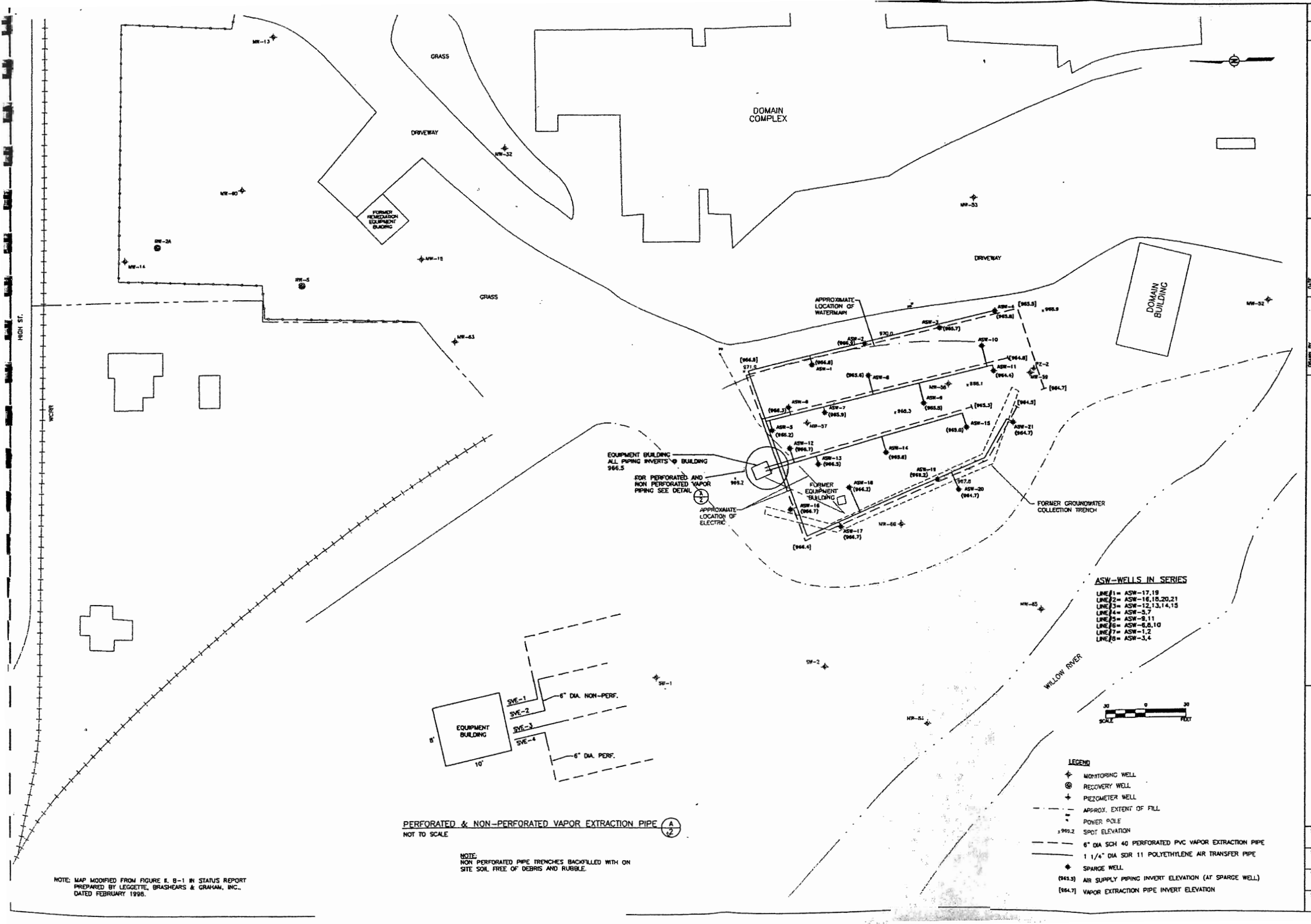


FIGURE 11

RECOVERY TENCH AS BUILT PLAN
447 KNOWLES AVENUE
NEW RICHMOND, WISCONSIN
TERRACON PROJECT NO. 41895071
APRIL 4, 1990

Terracon



PERFORATED & NON-PERFORATED VAPOR EXTRACTION PIPE (A/2)

NOT TO SCALE

NOTE:
NON PERFORATED PIPE TRENCHES BACKFILLED WITH ON SITE SOIL FREE OF DEBRIS AND RUBBLE.

NOTE: MAP MODIFIED FROM FIGURE 8, 8-1 IN STATUS REPORT PREPARED BY LEGGETTE, BRASHEARS & GRAHAM, INC., DATED FEBRUARY 1998.

ASW-WELLS IN SERIES

LINE 1= ASW-17,19
LINE 2= ASW-16,18,20,21
LINE 3= ASW-12,13,14,15
LINE 4= ASW-3,7
LINE 5= ASW-8,11
LINE 6= ASW-6,8,10
LINE 7= ASW-1,2
LINE 8= ASW-3,4

LEGEND

- MONITORING WELL
- RECOVERY WELL
- PIEZOMETER WELL
- APPROX. EXTENT OF FILL
- POWER POLE
- x965.2 SPOT ELEVATION
- 6" DIA SCH 40 PERFORATED PVC VAPOR EXTRACTION PIPE
- 1 1/4" DIA SDR 11 POLYETHYLENE AIR TRANSFER PIPE
- SPARGE WELL
- (965.5) AIR SUPPLY PIPING INVERT ELEVATION (AT SPARGE WELL)
- [964.7] VAPOR EXTRACTION PIPE INVERT ELEVATION

DESCRIPTION	DATE	BY

DRAWN BY D.J.M. DATE 7-25-00
CHECKED BY M.W.M. DATE 7-25-00
APPROVED BY DATE
CADFILE K:\PROJECTS\Jobs\2000\23661\WE\07-25-2000 17:

KERR-McGEE REFINING CORPORATION
FORMER SERVICE STATION KM-95542
RECORD DRAWINGS FOR INTERIM ACTION
NEW RICHMOND, WISCONSIN

SYSTEM LAYOUT

STS Consultants Ltd.
Consulting Engineers

STS PROJECT NUMBER 23966XE
STS PROJECT FILE C4966002.dwg
SCALE AS NOTED
SHEET NUMBER FIGURE 1

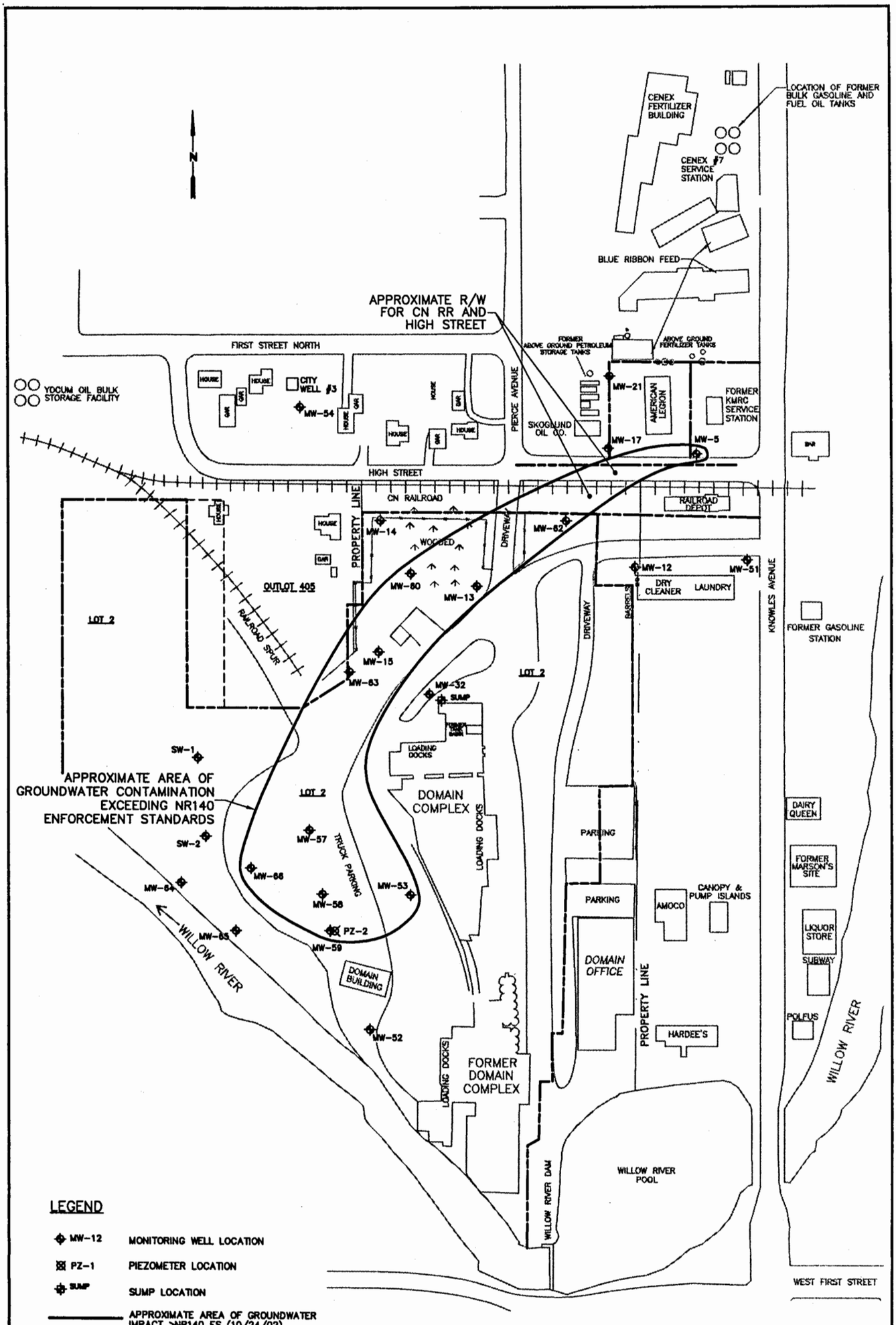


FIGURE NO. 3

SCALE 1" = 200'

STS PROJECT NO. 23966XE

STS Consultants Ltd.

KERR-McGEE REFINING CORPORATION
FORMER SERVICE STATION KM-9542
447 NORTH KNOWLES AVE.
NEW RICHMOND, WISCONSIN
GROUNDWATER SAMPLE LOCATIONS AND AFFECTED PROPERTIES

DESIGNED BY MWM	DATE 8-7-03
DRAWN BY JLC	DATE 8-7-03
APPROVED BY	DATE
CADFILE 423966XE005 XREF	

Table 2
Summary of Groundwater Analytical Results
Kerr-McGee Refining Corporation
Former Service Station KM-9542
New Richmond, Wisconsin

Sample Location	Sample Date	Benzene (ug/L)	Ethyl-benzene (ug/L)	Toluene (ug/L)	Xylenes (ug/L)	1,2,4-Tri-methyl-benzene (ug/L)	1,3,5-Tri-methyl-benzene (ug/L)	Methyl tertiary butyl ether (ug/L)
MW-05	23-Jul-90	8900	1900	18000	11000	--	--	--
MW-05	27-Sep-90	14000	3700	19000	21000	--	--	<50000
MW-05	15-Jul-93	630	700	6000	6200	2100	460	<500
MW-05	5-Oct-93	550	650	5300	4400	1100	330	34
MW-05	4-Nov-93	270	750	4700	5400	1300	220	<1000
MW-05	6-Jan-94	110	480	3800	3000	840	209	<50
MW-05	8-Apr-94	22	220	740	850	310	92	<10
MW-05	7-Jul-94	60	810	5400	6300	1700	430	<100
MW-05	5-Oct-94	31	850	4800	8100	1500	400	<50
MW-05	2-Mar-95	<5	270	1600	2600	360	91	<50
MW-05	12-Jun-95	9.4	690	2800	5300	1200	290	58
MW-05	27-Jun-95	<50	1000	3700	7300	1600	420	<500
MW-05	14-Sep-95	<50	920	4000	7100	1500	470	<500
MW-05	15-Nov-95	<1	790	3400	4900	980	290	50
MW-05	9-Feb-96	<50	1000	2400	5700	1400	370	<500
MW-05	11-Apr-96	<50	850	1700	4300	1100	280	<500
MW-05	31-Oct-96	<50	460	320	3100	1300	400	<500
MW-05	15-Apr-97	<50	290	440	3200	1500	500	<500
MW-05	1-Oct-97	<0.65	230	95	1800	510	130	<0.8
MW-05	1-Apr-98	<1.3	270	26	1780	810	270	3.4
MW-05	7-Oct-98	5.5	130	17	1120	660	220	3.8
MW-05	21-Jan-99	<2.5	103	21.1	1047	511	152	<5
MW-05	19-Apr-99	2.6	153	11.6	1262	500	141	<1.5
MW-05	28-Jul-99	<1.5	208	15.7	1702	576	158	<3
MW-05	13-Oct-99	<3	191	8.3	1688	458	120	<6
MW-05	11-Jan-00	4.1	265	12.2	2376	854	224	<6
MW-05	26-Apr-00	<7.5	175	<20	1636	589	153	<15
MW-05	26-Jul-00	11.9	169	<8	1836	733	175	<6
MW-05	27-Oct-00	<3	188	8.4	1745	903	236	<6
MW-05	25-Jan-01	4.1	247	<8	2162	1090	282	<6
MW-05	19-Apr-01	<30	159	<80	1101	724	156	<60
MW-05	31-Jul-01	<3.2	125	<8	1032	810	219	<6
MW-05	25-Oct-01	<3.2	135	<8	1132	850	189	<6
MW-05	22-Jan-02	<3.2	137	<8	1185	909	232	<6
MW-05	16-Apr-02	0.4	130	7.7	921	751	194	<0.3
MW-05	7-Aug-02	<31	127	<30	565	434	101	<30
MW-05	24-Oct-02	<6	128	<15	776	595	144	<15
NR 140 Preventive Action Limit		0.5	140	200	1000	96		12
NR 140 Enforcement Standards		5	700	1000	10000	480		60

Table 2
Summary of Groundwater Analytical Results
Kerr-McGee Refining Corporation
Former Service Station KM-9542
New Richmond, Wisconsin

Sample Location	Sample Date	Benzene (ug/L)	Ethyl-benzene (ug/L)	Toluene (ug/L)	Xylenes (ug/L)	1,2,4-Tri-methyl-benzene (ug/L)	1,3,5-Tri-methyl-benzene (ug/L)	Methyl tertiary butyl ether (ug/L)
MW-13	24-Jul-90	8600	1500	13000	8400	--	--	--
MW-13	25-Sep-90	17000	2800	11000	20000	--	--	<5000
MW-13	15-Jul-93	2400	890	7500	5000	880	440	<500
MW-13	5-Oct-93	1000	530	1000	2700	530	170	<50
MW-13	4-Nov-93	1800	1500	6100	7400	1000	180	<1000
MW-13	6-Jan-94	3000	1600	15000	7900	1200	310	<50
MW-13	5-Apr-94	870	760	3200	3500	490	110	<10
MW-13	7-Jul-94	1100	830	5300	4700	900	280	<100
MW-13	6-Oct-94	1700	730	7700	5400	800	330	<100
MW-13	2-Mar-95	380	490	2400	2100	450	130	<100
MW-13	21-Jun-95	600	970	3700	4300	990	410	<500
MW-13	14-Sep-95	520	1000	5100	5100	910	300	<500
MW-13	14-Nov-95	700	1700	7200	10000	1700	480	<4
MW-13	8-Feb-96	620	1700	11000	8000	1300	390	<500
MW-13	12-Apr-96	330	1400	7200	6300	1200	320	<500
MW-13	21-Aug-96	530	2500	15000	13000	2000	560	<500
MW-13	31-Oct-96	270	2200	10000	9200	1500	350	<4
MW-13	14-Jan-97	430	1600	9700	9600	1300	410	<500
MW-13	15-Apr-97	160	1300	5800	6700	1100	320	<500
MW-13	1-Jul-97	140	1100	3500	5300	870	220	<3.2
MW-13	1-Oct-97	220	2100	8800	10000	2000	500	<20
MW-13	7-Jan-98	64	1200	4200	6000	1000	280	<10
MW-13	1-Apr-98	60	1500	5900	7800	1400	410	<11
MW-13	1-Jul-98	40	1100	2700	5700	1000	320	<25
MW-13	8-Oct-98	24	920	2000	4800	1000	340	<3.2
MW-13	22-Jan-99	<25	1030	2090	5690	1070	308	<50
MW-13	19-Apr-99	10.2	681	1075	3597	732	228	<6.0
MW-13	28-Jul-99	<15	779	966	4033	821	226	<30
MW-13	13-Oct-99	<7.5	690	845	3801	809	226	<15
MW-13	11-Jan-00	<7.5	343	316	1755	398	116	<15
MW-13	26-Apr-00	<3	380	350	1824	395	103	<6
MW-13	26-Oct-00	4	412	139	2146	463	127	<6
MW-13	25-Oct-01	15	688	189	3863	855	245	14.7
MW-13	24-Oct-02	<12	570	73	3018	727	193	<30
NR 140 Preventive Action Limit		0.5	140	200	1000	96		12
NR 140 Enforcement Standards		5	700	1000	10000	480		60

Table 2
Summary of Groundwater Analytical Results
Kerr-McGee Refining Corporation
Former Service Station KM-9542
New Richmond, Wisconsin

Sample Location	Sample Date	Benzene (ug/L)	Ethyl-benzene (ug/L)	Toluene (ug/L)	Xylenes (ug/L)	1,2,4-Tri-methyl-benzene (ug/L)	1,3,5-Tri-methyl-benzene (ug/L)	Methyl tertiary butyl ether (ug/L)
MW-14	28-Dec-89	**3700**	14	900	3800	--	--	--
MW-14	24-Jul-90	**8600**	640	**5100**	4000	--	--	--
MW-14	26-Sep-90	**8800**	300	**4600**	3700	--	--	**<600**
MW-14	12-Oct-92	**410**	340	10	430	240	54	<10
MW-14	9-Apr-93	**240**	110	4.6	41	8	5	<10
MW-14	15-Jul-93	**380**	110	52	180	77	28	<10
MW-14	5-Oct-93	**900**	300	64	210	130	54	<50
MW-14	4-Nov-93	**580**	520	120	1400	**540**	**<100**	**<1000**
MW-14	6-Jan-94	**210**	500	12	890	**540**	**200**	<25
MW-14	6-Apr-94	**190**	610	5.3	680	**820**	**120**	<10
MW-14	7-Jul-94	**720**	460	90	920	**430**	**78**	<10
MW-14	6-Oct-94	**62**	29	1.2	35	28	3.4	<10
MW-14	2-Mar-95	**33**	2.1	<1	1.7	<1	<1	<10
MW-14	21-Jun-95	**250**	2.3	1.4	3	3.4	2.9	<10
MW-14	14-Sep-95	**8.1**	1.9	<1	<1	<1	<1	<10
MW-14	14-Nov-95	**10**	33	3.2	60	33	6.5	<10
MW-14	8-Feb-96	**1100**	500	20	1200	**620**	**180**	<10
MW-14	11-Apr-96	**360**	84	3.5	18	49	1.8	<10
MW-14	21-Aug-96	**260**	110	10	260	110	7	<50
MW-14	31-Oct-96	**890**	400	14	780	410	57	<10
MW-14	14-Jan-97	**72**	5.4	1.2	2.6	7.1	<1	<10
MW-14	15-Apr-97	**160**	3.5	<1	<1	1.6	<1	<10
MW-14	1-Jul-97	3.8	<0.22	<0.20	0.78	0.58	<0.29	<0.26
MW-14	1-Oct-97	0.50	<0.22	<0.20	<0.23	<0.22	<0.29	<0.16
MW-14	7-Jan-98	0.62	<0.29	<0.36	<1.15	<0.30	<0.34	<0.20
MW-14	1-Apr-98	<0.26	<0.24	<0.21	<1.34	<0.86	<0.54	<0.22
MW-14	1-Jul-98	<1	<1	<1	<3	<1	<2	<1
MW-14	8-Oct-98	<0.26	<0.24	<0.21	<1.34	<0.86	<0.54	<0.22
MW-14	22-Jan-99	<0.5	<1	<1	<2	<1	<1	<1
MW-14	19-Apr-99	<0.2	1.4	<0.5	0.6	0.5	1.5	<0.3
MW-14	28-Jul-99	<0.2	<0.5	<0.4	0.2	<0.15	<0.15	<0.3
MW-14	12-Oct-99	0.6	<0.5	0.7	<0.55	<0.4	<0.15	<0.3
MW-14	26-Apr-00	<0.15	2.2	27.8	48.9	11.5	2.0	<0.3
MW-14	26-Oct-00	<0.15	<0.5	0.5	<0.55	<0.4	<0.15	<0.3
MW-14	25-Oct-01	0.7	11.7	<0.4	2.8	3.41	<0.17	<0.3
MW-14	24-Oct-02	0.8	10.6	0.4	3.7	<0.4	<0.31	<0.3
NR 140 Preventive Action Limit		0.5	140	200	1000	96		12
NR 140 Enforcement Standards		5	700	1000	10000	480		60

Table 2
Summary of Groundwater Analytical Results
Kerr-McGee Refining Corporation
Former Service Station KM-9542
New Richmond, Wisconsin

Sample Location	Sample Date	Benzene (ug/L)	Ethyl-benzene (ug/L)	Toluene (ug/L)	Xylenes (ug/L)	1,2,4-Tri-methyl-benzene (ug/L)	1,3,5-Tri-methyl-benzene (ug/L)	Methyl tertiary butyl ether (ug/L)
MW-15	26-Sep-90	16000	1900	15000	13000	--	--	<500
MW-15	15-Jul-93	6600	2400	23000	14000	2500	1300	<500
MW-15	5-Oct-93	8000	2800	34000	16000	2300	800	<1000
MW-15	4-Nov-93	5000	3200	27000	20000	2800	560	<1000
MW-15	6-Jan-94	5400	2500	39000	18000	1900	540	<500
MW-15	7-Apr-94	4500	3400	40000	24000	3000	700	<10
MW-15	7-Jul-94	2600	2900	40000	18000	2300	780	<100
MW-15	6-Oct-94	1600	2200	24000	13000	2100	930	<500
MW-15	2-Mar-95	450	3100	23000	19000	2400	690	<1000
MW-15	21-Jun-95	430	2300	18000	16000	2500	930	170
MW-15	14-Sep-95	150	1400	9600	9700	1200	330	<500
MW-15	14-Nov-95	140	2900	19000	16000	2600	770	160
MW-15	9-Feb-96	59	2900	19000	24000	2300	720	<500
MW-15	11-Apr-96	<50	2700	13000	19000	2100	690	<500
MW-15	13-Sep-96	140	3400	11000	22000	2800	900	110
MW-15	22-Oct-96	200	2900	9500	23000	2500	850	<500
MW-15	14-Jan-97	410	3000	10000	19000	3000	810	<500
MW-15	15-Apr-97	<50	2000	4900	12000	1900	650	<500
MW-15	1-Jul-97	120	2200	6500	14000	2200	590	<8
MW-15	1-Oct-97	130	2200	5900	15000	2300	630	<8
MW-15	7-Jan-98	62	2100	4700	13300	2100	630	<10
MW-15	1-Apr-98	55	1600	4000	9900	1400	430	5.7
MW-15	1-Jul-98	3.2	160	230	1000	180	58	4.7
MW-15	8-Oct-98	<13	2400	2800	15000	2500	740	<11
MW-15	23-Jan-99	<50	1730	553	11500	2120	568	<100
MW-15	19-Apr-99	18	1398	1448	8670	1859	556	<15.0
MW-15	28-Jul-99	<15	847	645	5510	1240	352	<30
MW-15	12-Oct-99	<7.5	619	336	4260	991	270	<15
MW-15	11-Jan-00	26	1570	874	10000	2490	693	<15
MW-15	26-Apr-00	8	1940	484	11930	3290	942	<15
MW-15	27-Oct-00	21	1080	62	6910	2250	655	<30
MW-15	26-Oct-01	17	627	<40	4130	1360	361	<30
MW-15	24-Oct-02	<1.2	1160	<300	3430	2040	599	<300
NR 140 Preventive Action Limit		0.5	140	200	1000	96		12
NR 140 Enforcement Standards		5	700	1000	10000	480		60

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Summary of Groundwater Analytical Results
Kerr-McGee Refining Corporation
Former Service Station KM-9542
New Richmond, Wisconsin

Sample Location	Sample Date	Benzene (ug/L)	Ethyl-benzene (ug/L)	Toluene (ug/L)	Xylenes (ug/L)	1,2,4-Tri-methyl-benzene (ug/L)	1,3,5-Tri-methyl-benzene (ug/L)	Methyl tertiary butyl ether (ug/L)
MW-17	23-Jul-90	3600	1200	7600	7200	--	--	--
MW-17	27-Sep-90	22000	2300	25000	17000	--	--	<5000
MW-17	15-Jul-93	760	740	5800	8100	2300	750	<500
MW-17	6-Oct-93	360	390	2900	4100	1100	370	<100
MW-17	4-Nov-93	340	600	3200	8000	1700	310	<1000
MW-17	8-Apr-94	32	68	140	1900	610	120	<10
MW-17	7-Jul-94	37	170	800	3600	1100	260	<50
MW-17	5-Oct-94	120	490	2500	4700	1000	250	<500
MW-17	3-Mar-95	13	210	1400	1900	330	110	<50
MW-17	12-Jun-95	18	320	1400	2700	620	170	<100
MW-17	27-Jun-95	<25	300	1700	2600	510	140	<250
MW-17	14-Sep-95	8.3	200	900	1500	280	80	<50
MW-17	15-Nov-95	9	230	750	2100	550	160	11
MW-17	8-Feb-96	NOT SAMPLED BECAUSE WELL WAS BURIED UNDER ICE						
MW-17	11-Apr-96	<50	140	440	2300	970	230	<500
MW-17	31-Oct-96	<10	22	110	1700	380	100	<100
MW-17	15-Apr-97	<10	55	41	1300	440	150	<100
MW-17	1-Oct-97	<0.13	45	35	160	47	34	<0.16
MW-17	1-Apr-98	<1.3	6.1	19	1090	430	71	1.5
MW-17	7-Oct-98	<1.3	3.2	13	820	190	51	<1.1
MW-17	21-Jan-99	<5	<10	13.5	793	287	132	<10
MW-17	19-Apr-99	<2	12.4	18	1044	384	158	<3
MW-17	28-Jul-99	<7.5	<15	<20	859	442	214	<15
MW-17	13-Oct-99	<1.5	<5	<4	251	297	176	<3
MW-17	26-Apr-00	<0.75	<2.5	4.3	24	156	105	<1.5
MW-17	26-Oct-00	0.9	5	<2	99	129	80	<1.5
MW-17	25-Oct-01	<0.8	11	9.9	545	266	71	<1.5
MW-17	24-Oct-02	<0.31	63	<30	289	264	88	<30
NR 140 Preventive Action Limit		0.5	140	200	1000	96		12
NR 140 Enforcement Standards		5	700	1000	10000	480		60

Table 2
Summary of Groundwater Analytical Results
Kerr-McGee Refining Corporation
Former Service Station KM-9542
New Richmond, Wisconsin

Sample Location	Sample Date	Benzene (ug/L)	Ethyl-benzene (ug/L)	Toluene (ug/L)	Xylenes (ug/L)	1,2,4-Tri-methyl-benzene (ug/L)	1,3,5-Tri-methyl-benzene (ug/L)	Methyl tertiary butyl ether (ug/L)
MW-32	24-Jul-90	13000	890	22000	8800	--	--	--
MW-32	25-Sep-90	6100	1100	13000	6900	--	--	<500
MW-32	9-Apr-93	150	740	880	3800	720	200	<500
MW-32	15-Jul-93	130	830	1600	4500	1100	560	<500
MW-32	4-Oct-93	28	390	250	2400	630	330	44
MW-32	4-Nov-93	<100	610	270	4700	1000	260	<1000
MW-32	6-Jan-94	15	500	100	3600	1300	260	53
MW-32	6-Apr-94	<1	360	24	2600	1100	180	<10
MW-32	7-Jul-94	1.4	530	70	3300	1200	430	<100
MW-32	6-Oct-94	4.4	100	9.6	600	570	170	<20
MW-32	3-Mar-95	17	290	30	2300	1400	480	56
MW-32	23-Jun-95	7	140	10	830	600	350	22
MW-32	14-Sep-95	6.9	150	9.4	870	520	310	<50
MW-32	16-Nov-95	9.6	270	17	1700	1000	370	<10
MW-32	9-Feb-96	7.3	200	8.4	1400	820	240	<50
MW-32	12-Apr-96	<50	230	14	1500	1200	380	47
MW-32	27-Aug-96	<5	190	<5	1200	1100	370	130
MW-32	31-Oct-96	5.1	85	6.6	480	360	82	<50
MW-32	1-Oct-97	<0.65	90	5.2	250	390	110	<0.90
MW-32	8-Oct-98	<0.26	22	1.1	57	220	52	<0.22
MW-32	23-Jan-99	0.6	14	<1	39	181	59	<1
MW-32	20-Apr-99	0.3	7.4	1.3	29	173	43	<0.3
MW-32	28-Jul-99	0.4	0.8	<0.4	1.3	7.6	1.0	<0.3
MW-32	12-Oct-99	<0.15	0.9	0.7	1.5	15.6	2.2	<0.3
MW-32	26-Apr-00	<0.15	2.5	<0.4	3.6	61.7	3.8	<0.3
MW-32	27-Oct-00	<0.15	0.9	<0.4	1.1	26.5	2.9	<0.3
MW-32	25-Oct-01	<0.16	2.1	<0.4	1.6	33.9	1.2	<0.3
MW-32	24-Oct-02	<0.31	2.5	<0.3	2.4	38.5	7.2	<0.3
NR 140 Preventive Action Limit		0.5	140	200	1000	96		12
NR 140 Enforcement Standards		5	700	1000	10000	480		60

Table 2
Summary of Groundwater Analytical Results
Kerr-McGee Refining Corporation
Former Service Station KM-9542
New Richmond, Wisconsin

Sample Location	Sample Date	Benzene (ug/L)	Ethyl-benzene (ug/L)	Toluene (ug/L)	Xylenes (ug/L)	1,2,4-Tri-methyl-benzene (ug/L)	1,3,5-Tri-methyl-benzene (ug/L)	Methyl tertiary butyl ether (ug/L)
MW-52	25-Sep-90	<1	<1	<1	<1	--	--	<50
MW-52	16-Jan-91	<5	<5	<5	<5	--	--	--
MW-52	30-Apr-91	<1	<1	<1	--	--	--	--
MW-52	10-Oct-91	<1	<1	<1	<1	--	--	--
MW-52	21-Apr-92	<1	<1	<1	--	--	--	--
MW-52	13-Oct-92	<1	<1	<1	<1	<0.2	<0.3	<10
MW-52	8-Apr-93	<1	<1	<1	<1	0.2	<0.3	<10
MW-52	5-Oct-93	<1	<1	<1	<1	<1	<1	<10
MW-52	4-Nov-93	<1	<1	<1	<1	<1	<1	<10
MW-52	5-Apr-94	<1	<1	<1	<1	<1	<1	<10
MW-52	6-Oct-94	**62**	<1	<1	<1	<1	<1	<10
MW-52	2-Mar-95	**140**	<1	<1	<1	<1	<1	<10
MW-52	22-Jun-95	**13**	<1	<1	<1	<1	<1	<10
MW-52	16-Nov-95	<1	<1	<1	<1	<1	<1	<10
MW-52	11-Apr-96	<1	<1	<1	<1	<1	<1	<10
MW-52	31-Oct-96	<1	<1	<1	<1	<1	<1	<10
MW-52	15-Apr-97	<1	<1	<1	<1	<1	<1	<10
MW-52	2-Oct-97	<0.23	<0.22	<0.22	<0.23	<0.22	<0.29	<0.16
MW-52	1-Apr-98	<0.26	<0.24	<0.21	<1.34	<0.86	<0.54	<0.22
MW-52	8-Oct-98	<0.26	<0.24	<0.21	<1.34	<0.86	<0.54	<0.22
MW-52	19-Apr-99	4.1	<0.5	<0.5	<1	<0.5	<0.5	<0.3
MW-52	13-Oct-99	<0.15	<0.5	<0.4	<0.55	<0.4	<0.15	<0.3
MW-52	26-Apr-00	<0.15	<0.5	<0.4	<0.55	<0.4	<0.15	<0.3
MW-52	26-Oct-00	<0.15	<0.5	<0.4	<0.55	<0.4	<0.15	<0.3
MW-52	19-Apr-01	<0.15	<0.5	<0.4	<0.55	<0.4	<0.15	<0.3
MW-52	25-Oct-01	<0.16	<0.5	<0.4	<0.57	<0.4	<0.17	<0.3
MW-52	24-Oct-02	<0.31	<0.5	<0.3	<0.92	<0.4	<0.31	<0.3
NR 140 Preventive Action Limit		0.5	140	200	1000	96		12
NR 140 Enforcement Standards		5	700	1000	10000	480		60

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Summary of Groundwater Analytical Results
Kerr-McGee Refining Corporation
Former Service Station KM-9542
New Richmond, Wisconsin

Sample Location	Sample Date	Benzene (ug/L)	Ethyl-benzene (ug/L)	Toluene (ug/L)	Xylenes (ug/L)	1,2,4-Tri-methyl-benzene (ug/L)	1,3,5-Tri-methyl-benzene (ug/L)	Methyl tertiary butyl ether (ug/L)
MW-53	25-Sep-90	**10000**	**2200**	**20000**	**13000**	--	--	**230**
MW-53	13-Oct-92	**200**	62	52	520	280	120	<10
MW-53	15-Dec-92	**240**	130	26	860	**580**	**220**	<10
MW-53	9-Apr-93	**500**	45	440	680	160	80	**<250**
MW-53	15-Jul-93	**2300**	170	**2300**	3900	**680**	**350**	**<500**
MW-53	5-Oct-93	**480**	97	330	1000	250	120	19
MW-53	4-Nov-93	**370**	53	72	520	120	86	**<100**
MW-53	6-Jan-94	**100**	44	3	130	110	53	<25
MW-53	5-Apr-94	**93**	17	13	59	34	18	<10
MW-53	7-Jul-94	**280**	100	37	330	210	92	<50
MW-53	6-Oct-94	**800**	170	200	820	**340**	**180**	<50
MW-53	2-Mar-95	**290**	150	9.5	350	250	130	56
MW-53	22-Jun-95	**1200**	380	**1800**	3400	**350**	**150**	<50
MW-53	15-Sep-95	**1200**	530	**2800**	3500	**510**	**200**	**<500**
MW-53	14-Nov-95	**1300**	410	**1800**	2700	**490**	**220**	**91**
MW-53	9-Feb-96	**390**	260	<10	580	**360**	**160**	**<100**
MW-53	11-Apr-96	**86**	60	5.1	94	120	34	<50
MW-53	31-Oct-96	**370**	62	30	200	98	29	**<100**
MW-53	16-Apr-97	**850**	400	360	3600	**600**	**180**	**<500**
MW-53	2-Oct-97	**240**	100	66	540	93	18	<0.32
MW-53	1-Apr-98	**380**	500	150	1650	**430**	**160**	3.3
MW-53	8-Oct-98	**89**	87	1.3	114	120	2.9	<0.22
MW-53	23-Jan-99	**30.2**	15	2.3	9.2	17.4	<1	<1
MW-53	19-Apr-99	**282**	489	7.1	894	**616**	**191**	<3
MW-53	12-Oct-99	**309**	355	66	698	**708**	**220**	<3
MW-53	11-Jan-00	**155**	157	<4	141	218	5	<3
MW-53	26-Apr-00	**230**	180	62	548	199	30	<1.5
MW-53	26-Jul-00	**419**	474	107	1345	**659**	**230**	<1.5
MW-53	26-Oct-00	**125**	162	15	334	285	49	<6
MW-53	19-Apr-01	**246**	182	31.4	548	294	105	<6
MW-53	25-Oct-01	**250**	343	38.8	504	**517**	**40**	<3
MW-53	22-Jan-02	**437**	505	18.5	910	**630**	**56**	<3
MW-53	16-Apr-02	**195**	532	24	965	**597**	**171**	<0.3
MW-53	7-Aug-02	**301**	**795**	64.7	2395	**1340**	**378**	<30
MW-53	24-Oct-02	**212**	**948**	<60	2845	**1510**	**432**	<60
NR 140 Preventive Action Limit		0.5	140	200	1000	96		12
NR 140 Enforcement Standards		5	700	1000	10000	480		60

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Kerr-McGee Refining Corporation
Former Service Station KM-9542
New Richmond, Wisconsin

Sample Location	Sample Date	Benzene (ug/L)	Ethyl-benzene (ug/L)	Toluene (ug/L)	Xylenes (ug/L)	1,2,4-Tri-methyl-benzene (ug/L)	1,3,5-Tri-methyl-benzene (ug/L)	Methyl tertiary butyl ether (ug/L)
MW-54	21-Sep-90	<1	<1	<1	--	--	--	--
MW-54	16-Jan-91	<5	<5	<5	<5	--	--	--
MW-54	29-Apr-91	<1	<1	<1	--	--	--	--
MW-54	16-Jul-91	<5	<5	<5	<5	--	--	--
MW-54	10-Oct-91	2.8	<1	<1	<1	--	--	--
MW-54	31-Oct-91	<1	<1	<1	--	--	--	--
MW-54	8-Nov-91	<1	<1	<1	<1	--	--	--
MW-54	16-Jan-92	<1	<1	<1	<1	--	--	--
MW-54	20-Apr-92	<1	<1	<1	--	--	--	--
MW-54	8-Jul-92	<1	<1	<1	<1	--	--	--
MW-54	12-Oct-92	<1	<1	<1	<1	<0.2	<0.3	<10
MW-54	15-Dec-92	<1	<1	<1	<1	0.8	0.8	<10
MW-54	8-Apr-93	<1	<1	<1	<1	<0.2	<0.3	<10
MW-54	15-Jul-93	1.4	<1	3.8	3.2	0.8	<0.3	<10
MW-54	25-Aug-93	1	<1	1.4	1.4	<1	<1	<10
MW-54	4-Oct-93	<1	<1	<1	<1	<1	<1	<10
MW-54	4-Nov-93	**5.5**	<1	<1	<1	<1	<1	<10
MW-54	6-Jan-94	<1	<1	<1	<1	<1	<1	<10
MW-54	6-Apr-94	<1	<1	<1	<1	<1	<1	<10
MW-54	6-Jul-94	<1	<1	<1	<1	<1	<1	<10
MW-54	5-Oct-94	<1	<1	<1	<1	1.2	<1	<10
MW-54	3-Mar-95	<1	<1	<1	<1	<1	<1	<10
MW-54	21-Jun-95	<1	<1	<1	3	4.5	1.8	<10
MW-54	15-Sep-95	<1	<1	<1	<1	<1	<1	<10
MW-54	15-Nov-95	<1	<1	<1	<1	<1	<1	<10
MW-54	9-Feb-96	<1	<1	<1	<1	<1	<1	<10
MW-54	12-Apr-96	<1	<1	<1	<1	<1	<1	<10
MW-54	21-Aug-96	<1	<1	<1	<1	<1	<1	<10
MW-54	31-Oct-96	<1	<1	<1	<1	<1	<1	<10
MW-54	14-Jan-97	<1	<1	<1	<1	<1	<1	<10
MW-54	15-Apr-97	<1	<1	<1	<1	<1	<1	<10
MW-54	1-Jul-97	<0.13	<0.22	<0.20	<0.23	<0.22	<0.29	<0.16
MW-54	1-Oct-97	<0.13	<0.22	<0.20	<0.23	<0.22	<0.29	<0.16
MW-54	7-Jan-98	<0.16	<0.29	<0.36	<1.15	<0.30	<0.34	<0.20
MW-54	1-Apr-98	<0.26	<0.24	<0.21	<1.34	<0.86	<0.54	<0.22
MW-54	1-Jul-98	<1	<1	<1	<3	<1	<2	<1
MW-54	7-Oct-98	<0.26	<0.24	<0.21	<1.34	<0.86	<0.54	<0.22
MW-54	19-Apr-99	<0.20	<0.50	<0.50	<1	<0.50	<0.50	<0.30
MW-54	13-Oct-99	<0.15	<0.5	<0.4	<0.55	<0.4	<0.15	<0.3
MW-54	26-Oct-00	<0.15	<0.5	<0.4	<0.55	<0.4	<0.15	<0.3
MW-54	19-Apr-01	<0.15	<0.5	<0.4	<0.55	<0.4	<0.15	<0.3
MW-54	25-Oct-01	<0.16	<0.5	<0.4	<0.57	<0.4	<0.17	<0.3
MW-54	24-Oct-02	<0.31	<0.5	<0.3	<0.92	<0.4	<0.31	<0.3
NR 140 Preventive Action Limit		0.5	140	200	1000	96		12
NR 140 Enforcement Standards		5	700	1000	10000	480		60

Table 2
Summary of Groundwater Analytical Results
Kerr-McGee Refining Corporation
Former Service Station KM-9542
New Richmond, Wisconsin

Sample Location	Sample Date	Benzene (ug/L)	Ethyl-benzene (ug/L)	Toluene (ug/L)	Xylenes (ug/L)	1,2,4-Tri-methyl-benzene (ug/L)	1,3,5-Tri-methyl-benzene (ug/L)	Methyl tertiary butyl ether (ug/L)
MW-57	18-Oct-90	8400	420	4800	--	--	--	--
MW-57	11-Oct-91	11000	1200	15000	10000	--	--	--
MW-57	9-Apr-93	18000	7400	40000	46000	18000	5400	<1000
MW-57	4-Nov-93	17000	1600	32000	20000	2600	1300	<1000
MW-57	7-Apr-94	17000	2600	21000	15000	2200	580	<10
MW-57	6-Oct-94	18000	2000	25000	22000	3500	1400	<500
MW-57	22-Jun-95	16000	1800	22000	19000	3000	870	<500
MW-57	14-Nov-95	15000	2200	22000	19000	4500	1500	450
MW-57	11-Apr-96	1700	2000	22000	24000	3400	1100	<500
MW-57	21-Aug-96	29000	2900	34000	28000	3600	1100	<500
MW-57	31-Oct-96	17000	2200	21000	17000	2800	840	<2500
MW-57	16-Apr-97	19000	1900	24000	24000	6000	1800	<10000
MW-57	1-Jul-97	15000	700	15000	18000	3700	1100	<16
MW-57	2-Oct-97	17000	1700	19000	17000	2900	830	<16
MW-57	7-Jan-98	17000	1800	19000	17300	2600	770	<40
MW-57	1-Apr-98	19000	2400	22000	21600	4100	1300	<44
MW-57	1-Jul-98	19000	2000	19000	16100	2600	830	<200
MW-57	8-Oct-98	17000	1900	18000	15800	2700	820	<55
MW-57	23-Jan-99	20400	2070	20100	15870	2470	699	<100
MW-57	20-Apr-99	22592	2543	22159	18013	2966	857	<60
MW-57	28-Jul-99	17400	1640	19800	16450	2870	811	<75
MW-57	12-Oct-99	17800	2180	22900	19560	4290	1380	<150
MW-57	11-Jan-00	20700	2190	29300	17320	2790	791	<150
MW-57	26-Apr-00	368	16	417	697	271	180	<3
MW-57	23-May-00	355	51	794	1105	300	175	<3
MW-57	26-Jul-00	350	474	3150	4880	843	299	<6
MW-57	26-Oct-00	245	713	2020	7020	1570	511	<15
MW-57	25-Jan-01	27	71	36	797	144	55	<3
MW-57	19-Apr-01	<0.75	10.3	<2	91.7	56	20.3	<1.5
MW-57	31-Jul-01	2.7	11.1	18	303	69	24	<1.5
MW-57	26-Oct-01	<0.8	15.3	22	232	85	29	<1.5
MW-57	22-Jan-02	4.3	14.2	4.6	101	44	16	<1.5
MW-57	16-Apr-02	20.9	3.7	4.7	40	6	2	<0.3
MW-57	7-Aug-02	54.5	12.5	4	77	37	13	<0.3
MW-57	24-Oct-02	36.3	18.6	3	16	30	2	<1.5
NR 140 Preventive Action Limit		0.5	140	200	1000	96		12
NR 140 Enforcement Standards		5	700	1000	10000	480		60

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Summary of Groundwater Analytical Results
Kerr-McGee Refining Corporation
Former Service Station KM-9542
New Richmond, Wisconsin

Sample Location	Sample Date	Benzene (ug/L)	Ethyl-benzene (ug/L)	Toluene (ug/L)	Xylenes (ug/L)	1,2,4-Tri-methyl-benzene (ug/L)	1,3,5-Tri-methyl-benzene (ug/L)	Methyl tertiary butyl ether (ug/L)
MW-58	13-Oct-92	5100	1100	14000	13000	3200	1100	<10
MW-58	5-Oct-93	6600	760	13000	8300	1700	840	<1000
MW-58	4-Nov-93	7200	1000	20000	12000	2600	1200	<1000
MW-58	7-Apr-94	6000	1200	11000	14000	4400	1600	<10
MW-58	6-Oct-94	710	890	4700	9200	2400	1200	<500
MW-58	22-Jun-95	620	330	1200	3300	1000	400	200
MW-58	14-Nov-95	110	120	160	1200	420	180	55
MW-58	11-Apr-96	420	<50	2900	3400	630	340	<500
MW-58	20-Aug-96	1200	130	2100	2800	610	300	<500
MW-58	31-Oct-96	71	120	560	2900	550	310	<500
MW-58	14-Jan-97	110	42	130	780	270	170	<100
MW-58	16-Apr-97	7.9	9.7	41	90	40	22	<10
MW-58	1-Jul-97	390	66	390	550	130	52	<0.80
MW-58	2-Oct-97	1300	140	6500	1100	160	56	<1.6
MW-58	7-Jan-98	1600	360	10000	2900	350	150	19
MW-58	1-Apr-98	140	150	1100	1160	310	130	6.8
MW-58	1-Jul-98	2600	680	12000	4700	380	<200	<100
MW-58	8-Oct-98	2400	730	11000	5000	320	110	<22
MW-58	23-Jan-99	4430	1890	19900	11600	654	193	<100
MW-58	20-Apr-99	2230	1138	8116	6838	875	262	<15
MW-58	28-Jul-99	2990	740	8230	4210	316	87	<60
MW-58	12-Oct-99	1520	365	3510	2119	181	61	<30
MW-58	11-Jan-00	2900	1240	13800	7270	534	142	<30
MW-58	26-Apr-00	2440	1410	10700	8200	642	182	<75
MW-58	26-Jul-00	1150	406	822	2037	209	<30	<60
MW-58	26-Oct-00	2400	1150	5210	5970	614	192	<6
MW-58	25-Jan-01	2620	1010	2620	5380	636	162	<30
MW-58	19-Apr-01	252	112	457	620	50	13	<15
MW-58	31-Jul-01	3800	726	2670	4060	341	88	<3
MW-58	26-Oct-01	2240	1070	1960	6130	438	95	<15
MW-58	22-Jan-02	3090	2110	3620	11370	971	229	<30
MW-58	16-Apr-02	224	232	282	1327	149	41	<6
MW-58	7-Aug-02	279	49	93	180	16	<6.2	<6
MW-58	24-Oct-02	703	92	332	462	34	<6.2	<6
NR 140 Preventive Action Limit		0.5	140	200	1000	96		12
NR 140 Enforcement Standards		5	700	1000	10000	480		60

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Summary of Groundwater Analytical Results
Kerr-McGee Refining Corporation
Former Service Station KM-9542
New Richmond, Wisconsin

Sample Location	Sample Date	Benzene (ug/L)	Ethyl-benzene (ug/L)	Toluene (ug/L)	Xylenes (ug/L)	1,2,4-Tri-methyl-benzene (ug/L)	1,3,5-Tri-methyl-benzene (ug/L)	Methyl tertiary butyl ether (ug/L)
MW-59	13-Oct-92	4100	1100	7300	13000	2400	650	<10
MW-59	15-Dec-92	4300	1200	7600	12000	2100	570	<500
MW-59	9-Apr-93	9000	3200	16000	36000	15000	5000	<1000
MW-59	15-Jul-93	4800	640	9400	16000	3200	980	<500
MW-59	5-Oct-93	3700	400	7100	12000	2100	760	<1000
MW-59	4-Nov-93	3500	430	9400	16000	2200	1400	<1000
MW-59	6-Jan-94	3400	630	8100	15000	2300	690	<500
MW-59	7-Apr-94	3000	950	4700	15000	3600	950	<10
MW-59	7-Jul-94	2000	500	4900	13000	3100	920	<1000
MW-59	5-Oct-94	2000	770	6000	14000	3700	1600	<500
MW-59	3-Mar-95	2200	640	6000	14000	3200	1100	<100
MW-59	22-Jun-95	1300	440	5300	14000	3400	1100	<500
MW-59	14-Sep-95	700	360	3600	9600	2200	640	<500
MW-59	14-Nov-95	970	460	4600	11000	2700	900	130
MW-59	8-Feb-96	1500	830	3300	12000	2500	950	<500
MW-59	11-Apr-96	400	460	1900	7400	1700	760	<500
MW-59	13-Sep-96	570	300	580	4300	1100	310	<500
MW-59	22-Oct-96	490	420	780	6400	1200	660	<500
MW-59	16-Apr-97	260	500	800	5400	1400	600	<500
MW-59	2-Oct-97	470	370	350	3100	730	280	<0.8
MW-59	1-Apr-98	87	200	350	2900	1400	570	7
MW-59	8-Oct-98	630	530	670	3900	1000	390	<2.2
MW-59	22-Jan-99	818	786	297	4360	1200	421	<50
MW-59	20-Apr-99	451	720	181	4949	1297	425	<6
MW-59	28-Jul-99	503	572	909	5130	1130	366	<30
MW-59	12-Oct-99	384	421	247	2801	706	232	<30
MW-59	11-Jan-00	631	636	507	3550	877	274	<15
MW-59	26-Apr-00	382	618	69	3610	1220	422	<15
MW-59	26-Jul-00	96	365	33	2945	1210	338	<15
MW-59	26-Oct-00	229	502	74	2438	1170	347	<6
MW-59	25-Jan-01	236	428	25	1511	616	149	<15
MW-59	19-Apr-01	8.72	18	<2	93	106	38	<1.5
MW-59	31-Jul-01	85.1	251	<2	601	557	156	<1.5
MW-59	26-Oct-01	45.4	202	14	547	305	81	<3
MW-59	22-Jan-02	88.1	187	13	571	502	152	<3
MW-59	30-Apr-02	<0.31	6	2	14	12	3	<0.3
MW-59	7-Aug-02	35	52	1	92	52	12	<0.3
MW59	24-Oct-02	109	134	3	215	102	11	<3
NR 140 Preventive Action Limit		0.5	140	200	1000	96		12
NR 140 Enforcement Standards		5	700	1000	10000	480		60

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Summary of Groundwater Analytical Results
Kerr-McGee Refining Corporation
Former Service Station KM-9542
New Richmond, Wisconsin

Sample Location	Sample Date	Benzene (ug/L)	Ethyl-benzene (ug/L)	Toluene (ug/L)	Xylenes (ug/L)	1,2,4-Tri-methyl-benzene (ug/L)	1,3,5-Tri-methyl-benzene (ug/L)	Methyl tertiary butyl ether (ug/L)
MW-60	11-Oct-91	**7900**	110	**4400**	3800	--	--	--
MW-60	12-Oct-92	**3100**	**1900**	**11000**	9500	**1200**	**330**	<10
MW-60	5-Oct-93	**1300**	**1500**	**2500**	8200	**1500**	**460**	15
MW-60	4-Nov-93	**940**	**980**	**3800**	6500	**990**	**360**	**<1000**
MW-60	6-Apr-94	**1200**	**1600**	**4900**	9800	**1800**	**270**	<10
MW-60	6-Oct-94	**730**	**920**	**2500**	6100	**1000**	**310**	<10
MW-60	21-Jun-95	**260**	320	360	1300	320	100	<50
MW-60	14-Nov-95	**670**	**1700**	**2100**	7500	**1500**	**390**	**<100**
MW-60	11-Apr-96	**120**	410	27	1500	**560**	**170**	11
MW-60	31-Oct-96	**36**	240	<10	400	**600**	**180**	**<100**
MW-60	15-Apr-97	**19**	250	27	770	**360**	**120**	<50
MW-60	1-Oct-97	**83**	480	16	580	**350**	**190**	<0.8
MW-60	1-Apr-98	3.5	49	0.63	28	28	12	0.42
MW-60	7-Oct-98	**13**	180	13	360	330	95	<0.55
MW-60	22-Jan-99	<5	318	40.4	485	**558**	**165**	<10
MW-60	19-Apr-99	0.8	48	7.3	97	40	7	<0.3
MW-60	28-Jul-99	0.8	24	1.3	37	21	3.5	<0.3
MW-60	12-Oct-99	2.5	382	17	472	**425**	**143**	<3
MW-60	26-Apr-00	<1.5	56	19.8	179	61	15	<3
MW-60	27-Oct-00	2.5	232	102	849	**506**	**143**	<1.5
MW-60	25-Oct-01	**<8**	**883**	140	3306	**1090**	**299**	<15
MW-60	24-Oct-02	**<12**	349	40	1017	**435**	**87**	<30
NR 140 Preventive Action Limit		0.5	140	200	1000	96		12
NR 140 Enforcement Standards		5	700	1000	10000	480		60

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Former Service Station KM-9542
New Richmond, Wisconsin

Sample Location	Sample Date	Benzene (ug/L)	Ethyl-benzene (ug/L)	Toluene (ug/L)	Xylenes (ug/L)	1,2,4-Tri-methyl-benzene (ug/L)	1,3,5-Tri-methyl-benzene (ug/L)	Methyl tertiary butyl ether (ug/L)
MW-62	15-Jul-93	**740**	**700**	**2000**	3300	**1300**	**440**	**<500**
MW-62	6-Oct-93	**1000**	**850**	**4300**	4300	**930**	**290**	<50
MW-62	4-Nov-93	**2000**	100	**11000**	6600	**830**	**310**	**<1000**
MW-62	12-Jan-94	**1900**	**1200**	**9900**	6800	**1200**	**280**	**<100**
MW-62	7-Apr-94	**240**	420	**1900**	2000	**420**	**100**	<10
MW-62	7-Jul-94	**640**	**950**	**5400**	5400	**950**	**230**	<50
MW-62	5-Oct-94	**630**	**940**	**3700**	6700	**1100**	**320**	<10
MW-62	3-Mar-95	**1100**	**1400**	**5200**	7800	**1200**	**320**	**<100**
MW-62	22-Jun-95	**440**	**800**	**3300**	4200	**750**	**210**	**<500**
MW-62	15-Sep-95	**650**	**1100**	**4700**	6700	**1000**	**280**	**<100**
MW-62	14-Nov-95	**160**	**970**	**4100**	5700	**900**	**300**	53
MW-62	8-Feb-96	**87**	**700**	**2100**	3900	**590**	**170**	**<500**
MW-62	12-Apr-96	**23**	350	990	2000	340	76	<10
MW-62	31-Oct-96	2.6	160	400	1200	180	45	<10
MW-62	15-Apr-97	<10	600	950	4000	**510**	**160**	**<100**
MW-62	1-Oct-97	<0.65	360	360	**10000**	340	84	<0.8
MW-62	1-Apr-98	**5.9**	500	380	2310	**510**	**150**	2.2
MW-62	8-Oct-98	<1	100	47	620	110	40	<0.88
MW-62	21-Jan-99	<10	**743**	334	4230	**828**	**239**	<20
MW-62	19-Apr-99	<4	316	131	1979	367	100	<6
MW-62	28-Jul-99	<3	358	130	2252	**503**	**135**	<6
MW-62	13-Oct-99	**6.6**	605	105	3488	**818**	**222**	<6
MW-62	11-Jan-00	**<7.5**	410	78	2569	**694**	**188**	<15
MW-62	26-Apr-00	**<7.5**	322	23	1865	**651**	**182**	<15
MW-62	27-Oct-00	**6.1**	405	53	2181	**945**	**270**	<6
MW-62	25-Oct-01	<3.2	251	30	1212	**867**	**253**	<6
MW-62	24-Oct-02	**<6**	180	<15	771	**798**	**217**	<15
NR 140 Preventive Action Limit		0.5	140	200	1000	96		12
NR 140 Enforcement Standards		5	700	1000	10000	480		60

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New Richmond, Wisconsin

Sample Location	Sample Date	Benzene (ug/L)	Ethyl-benzene (ug/L)	Toluene (ug/L)	Xylenes (ug/L)	1,2,4-Tri-methyl-benzene (ug/L)	1,3,5-Tri-methyl-benzene (ug/L)	Methyl tertiary butyl ether (ug/L)
MW-63	16-Jun-93	2500	1900	15000	16000	2500	730	<500
MW-63	30-Jun-93	900	440	4000	2700	370	120	<10
MW-63	30-Jun-93	1920	1030	7160	6660	945	324	<500
MW-63	6-Oct-93	3700	1300	13000	9000	1400	470	<500
MW-63	4-Nov-93	5000	1600	22000	12000	1100	430	<1000
MW-63	6-Apr-94	1900	2900	26000	17000	2000	510	<10
MW-63	6-Oct-94	250	1100	5900	7500	1100	410	<100
MW-63	21-Jun-95	160	3100	19000	19000	2500	860	320
MW-63	14-Nov-95	790	1700	7200	15000	3100	1100	3000
MW-63	11-Apr-96	31	1600	7200	12000	2000	500	<100
MW-63	31-Oct-96	<50	1200	940	12000	1800	570	<500
MW-63	1-Oct-97	<2.6	910	1100	6300	1800	530	<3.2
MW-63	8-Oct-98	<2.6	530	180	5300	1700	720	<2.2
MW-63	23-Jan-99	<25	448	56	5840	2920	943	<50
MW-63	19-Apr-99	10.5	1543	196	8503	2443	751	<15
MW-63	28-Jul-99	<150	2250	<400	11260	2450	675	<300
MW-63	12-Oct-99	<30	1370	<80	7890	2400	768	<60
MW-63	11-Jan-00	42.3	1530	59	9590	2900	843	<30
MW-63	26-Apr-00	<30	1020	<80	5233	2730	875	<60
MW-63	27-Oct-00	14.4	737	31	3086	2040	770	<15
MW-63	25-Oct-01	12.9	485	<20	2355	2350	767	<15
MW-63	24-Oct-02	<6	637	<75	2579	2030	683	<75
NR 140 Preventive Action Limit		0.5	140	200	1000	96		12
NR 140 Enforcement Standards		5	700	1000	10000	480		60

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New Richmond, Wisconsin

Sample Location	Sample Date	Benzene (ug/L)	Ethyl-benzene (ug/L)	Toluene (ug/L)	Xylenes (ug/L)	1,2,4-Tri-methyl-benzene (ug/L)	1,3,5-Tri-methyl-benzene (ug/L)	Methyl tertiary butyl ether (ug/L)
MW-64	19-Apr-99	0.4	<0.5	<0.5	<1.0	<0.5	<0.5	<0.3
MW-64	28-Jul-99	<0.15	<0.5	<0.4	<0.35	<0.15	<0.15	<0.3
MW-64	13-Oct-99	**6.4**	<0.5	<0.4	<0.55	<0.4	<0.15	<0.3
MW-64	11-Jan-00	0.3	<0.5	<0.4	<0.55	<0.4	<0.15	<0.3
MW-64	26-Apr-00	**62.8**	<0.5	0.7	<0.55	<0.4	<0.15	<0.3
MW-64	26-Jul-00	**17**	<0.5	<0.4	<0.55	<0.4	<0.15	<0.3
MW-64	26-Oct-00	<0.15	<0.5	<0.4	<0.55	<0.4	<0.15	<0.3
MW-64	25-Jan-01	<0.15	<0.5	<0.4	<0.55	<0.4	<0.15	<0.3
MW-64	19-Apr-01	<0.15	<0.5	<0.4	<0.55	<0.4	<0.15	<0.3
MW-64	31-Jul-01	<0.16	<0.5	<0.4	<0.21	<0.4	<0.17	<0.3
MW-64	26-Oct-01	<0.16	<0.5	<0.4	<0.57	<0.4	<0.17	<0.3
MW-64	22-Jan-02	<0.16	<0.5	<0.4	<0.57	<0.4	<0.17	<0.3
MW-64	16-Apr-02	<0.31	<0.5	<0.3	<0.92	<0.4	<0.31	<0.3
MW-64	7-Aug-02	<0.31	<0.5	<0.3	<0.92	<0.4	<0.31	<0.3
MW-64	24-Oct-02	<0.31	<0.5	<0.3	<0.92	<0.4	<0.31	<0.3
MW-65	19-Apr-99	**105**	<0.5	1.3	0.6	<0.5	<0.5	<0.3
MW-65	28-Jul-99	**227**	<5	<4	<3.5	<1.5	<1.5	<3
MW-65	13-Oct-99	**228**	<2.5	2.7	<2.75	<2	<.75	<1.5
MW-65	11-Jan-00	**924**	229	72.7	221	78	11.6	<6
MW-65	26-Apr-00	**492**	111	2.3	4.9	16.2	2.2	<1.5
MW-65	26-Jul-00	**14**	<0.5	0.6	<0.55	<0.4	<0.15	<0.3
MW-65	26-Oct-00	**52**	<0.5	3.4	2.1	0.4	<0.15	<0.3
MW-65	25-Jan-01	**63**	<0.5	<0.4	<0.55	<0.4	<0.15	<0.3
MW-65	19-Apr-01	1.88	<0.5	<0.4	<0.55	<0.4	<0.15	<0.3
MW-65	31-Jul-01	3.72	1	<0.4	0.65	0.53	<0.17	<0.3
MW-65	26-Oct-01	<0.16	<0.5	0.8	<0.57	<0.4	<0.17	<0.3
MW-65	22-Jan-02	<0.16	<0.5	0.6	<0.57	<0.4	<0.17	<0.3
MW-65	16-Apr-02	<0.31	<0.5	<0.3	<0.92	<0.4	<0.31	<0.3
MW-65	7-Aug-02	<0.31	<0.5	<0.3	<0.92	<0.4	<0.31	<0.3
MW-65	24-Oct-02	<0.31	<0.5	<0.3	<0.92	<0.4	<0.31	<0.3
MW-66	13-Oct-99	**1130**	207	201	593	157	35.1	<3
MW-66	11-Jan-00	**1350**	330	160	627	156	33	<6
MW-66	26-Apr-00	**159**	72	3	27	30	1.1	<0.3
MW-66	26-Jul-00	**245**	70	1.2	29	41	<0.15	<0.3
MW-66	26-Oct-00	**370**	143	10	224	94	13	<1.5
MW-66	25-Jan-01	**127**	70	2.5	47	62	1.1	4.9
MW-66	19-Apr-01	**181**	7.2	9.2	34	5.4	<1.5	<3
MW-66	31-Jul-01	**59**	62	<2	48	61	1.9	<1.5
MW-66	26-Oct-01	**140**	114	4.7	73	68	3.2	<0.3
MW-66	22-Jan-02	**60**	51	3.5	32	38	1.6	<0.3
MW-66	16-Apr-02	**178**	129	6.4	115	92	5	<1.5
MW-66	7-Aug-02	**154**	140	15.4	111	81	<6.2	<6
MW-66	24-Oct-02	**104**	103	3.3	15	34	<3.1	<3
NR 140 Preventive Action Limit		0.5	140	200	1000	96		12
NR 140 Enforcement Standards		5	700	1000	10000	480		60

Table 2
Summary of Groundwater Analytical Results
Kerr-McGee Refining Corporation
Former Service Station KM-9542
New Richmond, Wisconsin

Sample Location	Sample Date	Benzene (ug/L)	Ethyl-benzene (ug/L)	Toluene (ug/L)	Xylenes (ug/L)	1,2,4-Tri-methyl-benzene (ug/L)	1,3,5-Tri-methyl-benzene (ug/L)	Methyl tertiary butyl ether (ug/L)
SW-1	16-Jun-93	860	2400	2000	17000	4700	1300	<500
SW-1	30-Jun-93	510	1700	5700	15000	5100	2500	<1000
SW-1	30-Jun-93	256	1110	3420	10900	1620	597	<1250
SW-1	6-Oct-93	430	1100	370	8700	2200	740	<50
SW-1	4-Nov-93	1100	440	720	8600	1300	540	<1000
SW-1	12-Jan-94	740	1100	340	11000	1700	560	<500
SW-1	7-Apr-94	490	1300	190	11000	1900	580	<10
SW-1	7-Jul-94	200	1000	130	8500	1900	580	<100
SW-1	5-Oct-94	130	1700	290	15000	3400	1100	58
SW-1	3-Mar-95	450	1400	130	9200	2300	880	<500
SW-1	22-Jun-95	33	70	46	4900	1100	65	26
SW-1	15-Sep-95	9.5	460	35	5800	1400	98	<69
SW-1	16-Nov-95	8.7	430	23	5600	1600	560	43
SW-1	8-Feb-96	95	700	<50	6200	2000	730	<500
SW-1	11-Apr-96	<50	660	80	10000	2400	810	<500
SW-1	31-Oct-96	<50	440	<50	3900	1900	630	<500
SW-1	16-Apr-97	<50	250	<50	5000	2500	1000	<500
SW-1	1-Oct-97	18	150	5.4	220	550	260	<0.8
SW-1	1-Apr-98	3.4	52	0.9	105	160	68	0.7
SW-1	8-Oct-98	61	480	3	434	320	<2.2	<0.9
SW-1	22-Jan-99	14.9	135	<1	11.7	9.9	<1	<1
SW-1	19-Apr-99	<0.2	<0.5	<0.5	<1	<0.5	<0.5	<0.3
SW-1	28-Jul-99	<0.15	0.5	<0.4	4.3	2.4	<0.15	<0.3
SW-1	13-Oct-99	0.3	2.5	<0.4	1.6	0.6	<0.15	<0.3
SW-1	11-Jan-00	10.4	25	0.6	0.6	<0.4	<0.15	<0.3
SW-1	26-Apr-00	4.96	0.6	<0.4	0.2	<0.4	<0.15	<0.3
SW-1	26-Jul-00	2.97	9.1	<0.4	3.1	<0.4	<0.15	<0.3
SW-1	26-Oct-00	8.72	2	<0.4	0.6	<0.4	<0.15	<0.3
SW-1	25-Jan-01	11.20	<0.5	1.2	<0.55	<0.4	<0.15	<0.3
SW-1	19-Apr-01	<0.15	<0.5	<0.4	<0.55	<0.4	<0.15	<0.3
SW-1	31-Jul-01	<0.16	14	<0.4	11	57.8	<0.17	<0.3
SW-1	26-Oct-01	<0.16	<0.5	1.9	0.6	<0.4	<0.17	<0.3
SW-1	22-Jan-02	3.6	<0.5	3	<0.57	<0.4	<0.17	<0.3
SW-1	16-Apr-02	0.7	<0.5	1	<0.92	<0.4	<0.31	<0.3
SW-1	7-Aug-02	<0.31	<0.5	<0.3	<0.92	<0.4	<0.31	<0.3
SW-1	24-Oct-02	<0.31	<0.5	<0.3	<0.92	<0.4	<0.31	<0.3
NR 140 Preventive Action Limit		0.5	140	200	1000	96		12
NR 140 Enforcement Standards		5	700	1000	10000	480		60

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Summary of Groundwater Analytical Results
Kerr-McGee Refining Corporation
Former Service Station KM-9542
New Richmond, Wisconsin

Sample Location	Sample Date	Benzene (ug/L)	Ethyl-benzene (ug/L)	Toluene (ug/L)	Xylenes (ug/L)	1,2,4-Tri-methyl-benzene (ug/L)	1,3,5-Tri-methyl-benzene (ug/L)	Methyl tertiary butyl ether (ug/L)
SW-2	16-Jun-93	**430**	<1	1.4	2.8	2	0.6	<10
SW-2	30-Jun-93	**960**	<1	<1	<1	0.3	<0.3	<10
SW-2	30-Jun-93	**789**	<5	<5	<5	<5	<5	<50
SW-2	6-Oct-93	**840**	1.8	1.6	1.6	2.4	<1	<10
SW-2	4-Nov-93	**380**	<1	<1	<1	<1	<1	<10
SW-2	7-Apr-94	**1100**	<1	<1	<1	<1	<1	<10
SW-2	5-Oct-94	**44**	<1	<1	<1	<1	<1	<10
SW-2	22-Jun-95	**760**	17	2.4	13	2.6	<1	19
SW-2	16-Nov-95	**500**	2	1.6	4	14	1	37
SW-2	11-Apr-96	**220**	<1	<1	<1	<1	<1	<10
SW-2	31-Oct-96	**14**	<1	<1	<1	<1	<1	<10
SW-2	16-Apr-97	**11**	<1	<1	<1	<1	<1	<10
SW-2	1-Oct-97	0.33	<0.22	<0.20	<0.23	<0.22	<0.29	<0.16
SW-2	1-Apr-98	**49**	0.24	<0.21	<1.34	<0.86	<0.54	0.24
SW-2	20-Oct-98	<0.26	<0.24	<0.21	<1.34	<0.86	<0.54	<0.22
SW-2	22-Jan-99	**100**	<1	<1	<2	<1	<1	<1
SW-2	19-Apr-99	3	<0.5	<0.5	<1.0	<0.5	<0.5	<0.3
SW-2	28-Jul-99	**6.2**	<0.5	<0.4	<0.35	<0.15	<0.15	1.2
SW-2	13-Oct-99	1.1	<0.5	<0.4	<0.55	<0.4	<0.15	<0.3
SW-2	11-Jan-00	**66.2**	<0.5	0.4	<0.55	<0.4	<0.15	<0.3
SW-2	26-Apr-00	**40.3**	<0.5	<0.4	<0.55	<0.4	<0.15	<0.3
SW-2	26-Jul-00	0.2	0.7	<0.4	0.9	<0.4	<0.15	<0.3
SW-2	26-Oct-00	<0.15	<0.5	<0.4	<0.55	<0.4	<0.15	<0.3
SW-2	25-Jan-01	<0.15	<0.5	<0.4	<0.55	<0.4	<0.15	<0.3
SW-2	19-Apr-01	3.12	<0.5	<0.4	<0.55	<0.4	<0.15	<0.3
SW-2	31-Jul-01	0.57	<0.5	<0.4	0.99	0.87	0.42	<0.3
SW-2	26-Oct-01	<0.16	<0.5	<0.4	<0.57	<0.4	<0.17	<0.3
SW-2	22-Jan-02	<0.16	<0.5	<0.4	<0.57	<0.4	<0.17	<0.3
SW-2	16-Apr-02	**23.4**	<0.5	<0.3	<0.92	<0.4	<0.31	<0.3
SW-2	7-Aug-02	<0.31	<0.5	<0.3	<0.92	<0.4	<0.31	<0.3
SW-2	24-Oct-02	<0.31	<0.5	<0.3	<0.92	<0.4	<0.31	<0.3
NR 140 Preventive Action Limit		0.5	140	200	1000	96		12
NR 140 Enforcement Standards		5	700	1000	10000	480		60

Table 2
Summary of Groundwater Analytical Results
Kerr-McGee Refining Corporation
Former Service Station KM-9542
New Richmond, Wisconsin

Sample Location	Sample Date	Benzene (ug/L)	Ethyl-benzene (ug/L)	Toluene (ug/L)	Xylenes (ug/L)	1,2,4-Tri-methyl-benzene (ug/L)	1,3,5-Tri-methyl-benzene (ug/L)	Methyl tertiary butyl ether (ug/L)
PZ-2	20-Feb-91	<1	<1	<1	--	--	--	--
PZ-2	28-Feb-91	<1	<1	<1	--	--	--	--
PZ-2	13-Oct-92	**36**	9.5	1.2	3	1.1	<0.3	<10
PZ-2	8-Apr-93	**24**	15	2.6	14	6.4	3.2	<10
PZ-2	5-Oct-93	<1	<1	<1	1	1.6	1	<10
PZ-2	4-Nov-93	<1	<1	<1	1	<1	<1	<10
PZ-2	5-Apr-94	<1	<1	<1	<1	<1	<1	<10
PZ-2	5-Oct-94	**32**	29	1	30	22	8	<10
PZ-2	22-Jun-95	**32**	14	<1	9	6.4	1.8	<10
PZ-2	14-Nov-95	<0.2	<0.5	<0.5	<0.5	<0.4	<0.2	<0.4
PZ-2	11-Apr-96	<1	<1	<1	<1	<1	<1	<10
PZ-2	31-Oct-96	**30**	36	0.6	6.2	3.7	<0.2	<0.4
PZ-2	2-Oct-97	**110**	49	1.4	44	23	2.5	0.4
PZ-2	8-Oct-98	<0.27	<0.32	<0.27	<0.67	<0.22	<0.27	<0.32
PZ-2	22-Jan-99	<0.5	<1	<1	<2	<1	<1	<1
PZ-2	20-Apr-99	**33.1**	29	<0.5	8.5	2.3	<0.5	<0.3
PZ-2	28-Jul-99	**76.7**	17	0.9	4.9	0.2	0.8	<0.3
PZ-2	13-Oct-99	**55**	6.8	0.5	1.3	<0.4	<0.15	<0.3
PZ-2	11-Jan-00	**137**	1.7	<0.4	<0.55	<0.4	<0.15	<0.3
PZ-2	26-Apr-00	**51**	2.0	1.1	<0.55	<0.4	<0.15	<0.3
PZ-2	26-Jul-00	**25**	<0.5	<0.4	<0.55	<0.4	<0.15	<0.3
PZ-2	26-Oct-00	**31**	1.5	<0.4	<0.55	<0.4	<0.15	<0.3
PZ-2	25-Jan-01	**24**	<0.5	<0.4	<0.55	<0.4	<0.15	<0.3
PZ-2	19-Apr-01	**101**	44	<2	20.6	11.1	<0.75	<1.5
PZ-2	31-Jul-01	**19**	0.6	<0.4	<0.21	<0.4	<0.17	35
PZ-2	25-Oct-01	**15**	<0.5	<0.4	<0.57	<0.4	<0.17	<0.3
PZ-2	22-Jan-02	**11**	<0.5	<0.4	<0.57	<0.4	<0.17	<0.3
PZ-2	16-Apr-02	**15**	1.9	<0.3	<0.92	<0.4	<0.31	<0.3
PZ-2	7-Aug-02	**12**	<0.5	<0.3	<0.92	<0.4	<0.31	<0.3
PZ-2	24-Oct-02	4.98	<0.5	<0.3	<0.92	<0.4	<0.31	<0.3
NR 140 Preventive Action Limit		0.5	140	200	1000	96		12
NR 140 Enforcement Standards		5	700	1000	10000	480		60

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Summary of Groundwater Analytical Results
Kerr-McGee Refining Corporation
Former Service Station KM-9542
New Richmond, Wisconsin

Sample Location	Sample Date	Benzene (ug/L)	Ethyl-benzene (ug/L)	Toluene (ug/L)	Xylenes (ug/L)	1,2,4-Tri-methyl-benzene (ug/L)	1,3,5-Tri-methyl-benzene (ug/L)	Methyl tertiary butyl ether (ug/L)
CITY WELL #3	21-Feb-90	<0.30	<0.30	<0.30	<0.30	<0.30	<0.30	--
CITY WELL #3	24-Jul-90	<5	<5	<5	<5	--	--	--
CITY WELL #3	20-Sep-90	<1	<1	<1	<1	--	--	--
CITY WELL #3	13-Oct-92	<1	<1	<1	<1	<0.2	<0.3	<10
CITY WELL #3	5-Oct-93	<1	<1	<1	<1	<1	<1	<10
CITY WELL #3	4-Nov-93	<1	<1	<1	<1	<1	<1	<10
CITY WELL #3	6-Apr-94	<1	<1	<1	<1	<1	<1	<10
CITY WELL #3	14-Oct-94	<1	<1	<1	<1	<1	<1	<10
CITY WELL #3	22-Jun-95	<1	<1	<1	<1	<1	<1	<10
CITY WELL #3	18-Sep-95	<1	<1	<1	<1	<1	<1	<10
CITY WELL #3	11-Apr-96	<1	<1	1.1	<1	<1	<1	<10
CITY WELL #3	30-Apr-96	<1	<1	<1	<1	--	--	<10
CITY WELL #3	9-Jul-96	<1	<1	<1	<1	--	--	<10
CITY WELL #3	23-Jul-96	<1	<1	<1	<1	--	--	<10
CITY WELL #3	1-Nov-96	<1	<1	<1	<1	--	--	<10
CITY WELL #3	14-Jan-97	<1	<1	<1	<1	<1	<1	<10
CITY WELL #3	15-Apr-97	<1	<1	<1	<1	<1	<1	<10
CITY WELL #3	1-Oct-97	<0.13	<0.22	<0.20	0.27	<0.22	<0.29	<0.16
CITY WELL #3	16-Oct-97	<1	<1	1	<2	<1	<1	<4
CITY WELL #3	11-Nov-97	<0.41	<0.23	<0.28	<0.51	<0.30	<0.25	<0.53
CITY WELL #3	7-Jan-98	<0.16	<0.29	<0.36	<1.15	<0.30	<0.34	<0.20
CITY WELL #3	1-Jul-98	<1	<1	<1	<3	<1	<2	<1
CITY WELL #3	6-Aug-98	<0.26	<0.24	<0.21	<1.34	<0.86	<0.54	<0.22
CITY WELL #3	6-Oct-98	<0.26	<0.24	<0.21	<1.34	<0.86	<0.54	<0.22
CITY WELL #3	22-Jan-99	<1	<1	<1	<2	<1	<1	<1
CITY WELL #3	20-Apr-99	<0.2	<0.5	<0.5	<1.0	<0.5	<0.5	<0.3
CITY WELL #3	28-Jul-99	<0.15	<0.5	<0.4	<0.35	<0.15	<0.15	<0.3
CITY WELL #3	13-Oct-99	<0.15	<0.5	<0.4	<0.45	<0.4	<0.15	<0.3
CITY WELL #3	11-Jan-00	<0.15	<0.5	<0.4	<0.55	<0.4	<0.15	<0.3
CITY WELL #3	26-Apr-00	0.28	0.72	0.83	1.90	1.49	<0.15	<0.3
CITY WELL #3	16-May-00	<0.15	<0.5	<0.4	<0.55	<0.4	<0.15	<0.3
CITY WELL #3	26-Jul-00	<0.15	<0.5	<0.4	<0.55	<0.4	<0.15	<0.3
CITY WELL #3	26-Oct-00	<0.15	<0.5	<0.4	<0.55	<0.4	<0.15	<0.3
CITY WELL #3	25-Jan-01	<0.15	<0.5	<0.4	<0.55	<0.4	<0.15	<0.3
CITY WELL #3	19-Apr-01	<0.15	<0.5	<0.4	<0.55	<0.4	<0.15	<0.3
CITY WELL #3	31-Jul-01	<0.16	<0.5	<0.4	<0.21	<0.4	<0.17	<0.3
CITY WELL #3	25-Oct-01	<0.16	<0.5	<0.4	<0.57	<0.4	<0.17	<0.3
CITY WELL #3	22-Jan-02	<0.16	<0.5	<0.4	<0.57	<0.4	<0.17	<0.3
CITY WELL #3	16-Apr-02	<0.31	<0.5	<0.3	<0.92	<0.4	<0.31	<0.3
CITY WELL #3	7-Aug-02	<0.31	<0.5	<0.3	<0.92	<0.4	<0.31	<0.3
CITY WELL #3	24-Oct-02	<0.31	<0.5	<0.3	<0.92	<0.4	<0.31	<0.3
NR 140 Preventive Action Limit		0.5	140	200	1000	96		12
NR 140 Enforcement Standards		5	700	1000	10000	480		60

Table 2
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Kerr-McGee Refining Corporation
Former Service Station KM-9542
New Richmond, Wisconsin

Sample Location	Sample Date	Benzene (ug/L)	Ethyl-benzene (ug/L)	Toluene (ug/L)	Xylenes (ug/L)	1,2,4-Tri-methyl-benzene (ug/L)	1,3,5-Tri-methyl-benzene (ug/L)	Methyl tertiary butyl ether (ug/L)

NOTES: ug/L: micrograms per liter

25.9 Indicates Wisconsin Administrative Code NR 140 Enforcement Standard Exceedance

Indicates Wisconsin Administrative Code NR 140 Preventive Action Limit Exceedance

<: less than

--: not analyzed for this parameter or data not available

Started vapor extraction/air sparging remediation system on November 8, 1999.

Shut off remediation system on January 22, 2002.

Table 1
Water Level Data Summary - 2002
Kerr-McGee Refining Corporation
Former Service Station KM-9542
New Richmond, Wisconsin

WELL NO.	DATE	DEPTH TO WATER	ELEVATION TPVC	GROUNDWATER ELEVATION
MW-5	01/22/02	16.26	986.09	969.83
	04/16/02	16.02		970.07
	08/07/02	14.53		971.56
	10/24/02	14.50		971.59
MW-12	01/22/02	19.58	989.03	969.45
	04/16/02	19.34		969.69
	08/07/02	17.91		971.12
	10/24/02	17.87		971.16
MW-13	01/22/02	18.08	986.56	968.48
	04/16/02	17.87		968.69
	08/07/02	16.57		969.99
	10/24/02	16.52		970.04
MW-14	01/22/02	20.55	987.98	967.43
	04/16/02	20.39		967.59
	08/07/02	19.08		968.90
	10/24/02	19.00		968.98
MW-15	01/22/02	19.91	987.36	967.45
	04/16/02	19.67		967.69
	08/07/02	18.63		968.73
	10/24/02	18.57		968.79
MW-17	01/22/02	16.47	985.98	969.51
	04/16/02	16.25		969.73
	08/07/02	14.78		971.20
	10/24/02	14.73		971.25
MW-21	01/22/02	19.98	989.54	969.56
	04/16/02	19.78		969.76
	08/07/02	18.25		971.29
	10/24/02	18.20		971.34
MW-32	01/22/02	7.95	975.62	967.67
	04/16/02	7.65		967.97
	08/07/02	6.65		968.97
	10/24/02	6.62		969.00
MW-51	01/22/02	18.48	988.41	969.93
	04/16/02	18.20		970.21
	08/07/02	16.54		971.87
	10/24/02	16.73		971.68

Table 1
Water Level Data Summary - 2002
Kerr-McGee Refining Corporation
Former Service Station KM-9542
New Richmond, Wisconsin

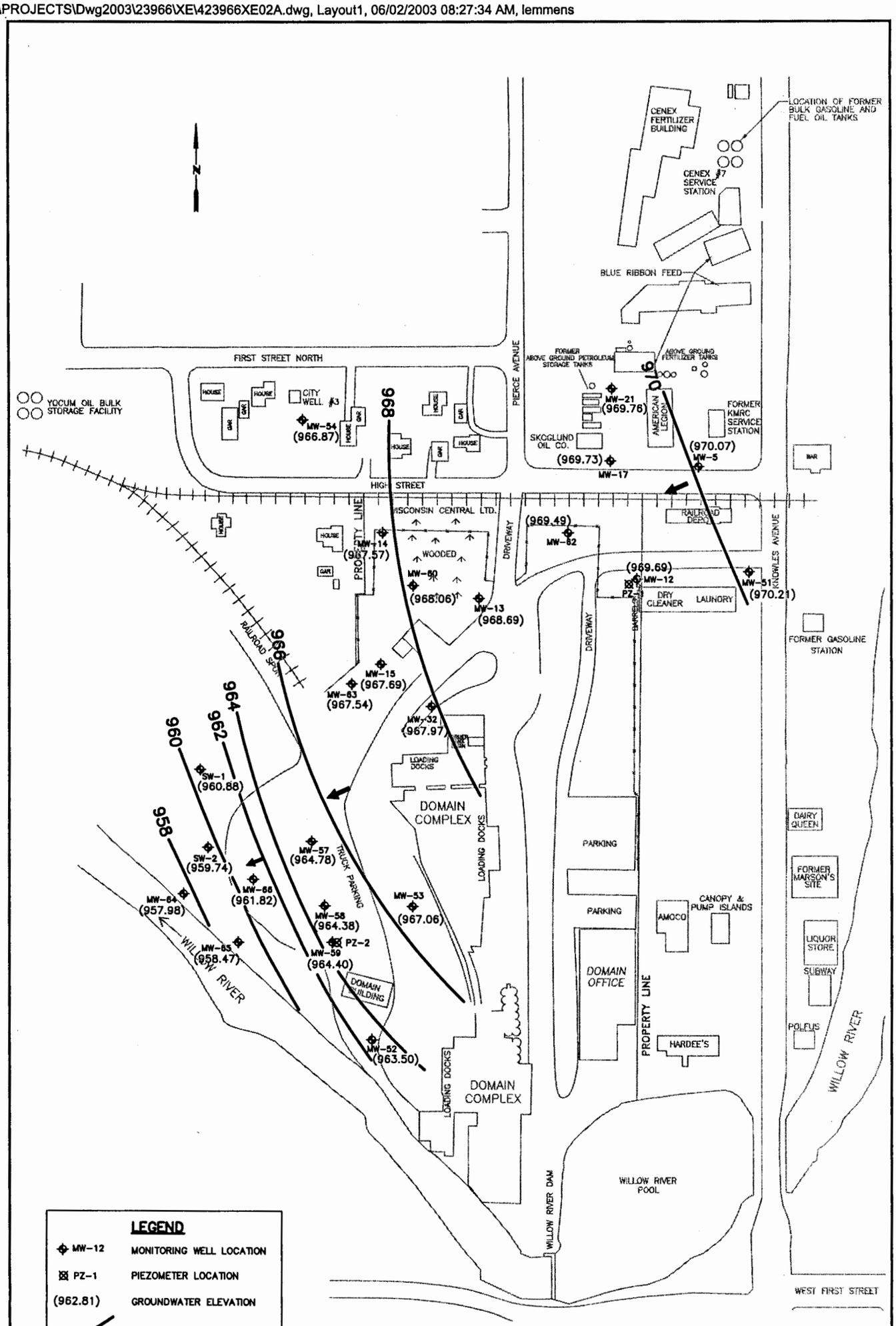
WELL NO.	DATE	DEPTH TO WATER	ELEVATION TPVC	GROUNDWATER ELEVATION
MW-52	01/22/02	8.84	971.09	962.25
	04/16/02	7.59		963.50
	08/07/02	7.91		963.18
	10/24/02	7.31		963.78
MW-53	01/22/02	7.49	972.53	965.04
	04/16/02	5.47		967.06
	08/07/02	5.55		966.98
	10/24/02	5.55		966.98
MW-54	01/22/02	21.94	988.71	966.77
	04/16/02	21.84		966.87
	08/07/02	20.43		968.28
	10/24/02	20.33		968.38
MW-57	01/22/02	5.43	969.27	963.84
	04/16/02	4.49		964.78
	08/07/02	4.57		964.70
	10/24/02	4.61		964.66
MW-58	01/22/02	9.30	972.06	962.76
	04/16/02	7.68		964.38
	08/07/02	7.90		964.16
	10/24/02	7.95		964.11
MW-59	01/22/02	8.21	970.46	962.25
	04/16/02	6.06		964.40
	08/07/02	6.91		963.55
	10/24/02	6.86		963.60
MW-60	01/22/02	18.92	986.77	967.85
	04/16/02	18.71		968.06
	08/07/02	17.50		969.27
	10/24/02	17.43		969.34
MW-62	01/22/02	19.13	988.40	969.27
	04/16/02	18.91		969.49
	08/07/02	17.48		970.92
	10/24/02	17.43		970.97
MW-63	01/22/02	19.88	987.18	967.30
	04/16/02	19.64		967.54
	08/07/02	18.68		968.50
	10/24/02	18.62		968.56

Table 1
Water Level Data Summary - 2002
Kerr-McGee Refining Corporation
Former Service Station KM-9542
New Richmond, Wisconsin

WELL NO.	DATE	DEPTH TO WATER	ELEVATION TPVC	GROUNDWATER ELEVATION
MW-64	01/22/02	5.56	962.68	957.12
	04/16/02	4.70		957.98
	08/07/02	4.87		957.81
	10/24/02	5.07		957.61
MW-65	01/22/02	6.83	964.21	957.38
	04/16/02	5.74		958.47
	08/07/02	6.17		958.04
	10/24/02	6.28		957.93
MW-66	01/22/02	10.75	971.11	960.36
	04/16/02	9.29		961.82
	08/07/02	9.21		961.90
	10/24/02	9.33		961.78
SW-1	01/22/02	5.23	964.58	959.35
	04/16/02	3.70		960.88
	08/07/02	4.54		960.04
	10/24/02	4.06		960.52
SW-2	01/22/02	5.93	964.42	958.49
	04/16/02	4.68		959.74
	08/07/02	5.15		959.27
	10/24/02	4.79		959.63
PZ-2	01/22/02	8.45	969.68	961.23
	04/16/02	7.78		961.90
	08/07/02	7.41		962.27
	10/24/02	7.36		962.32

Notes:
TPVC: Top of PVC well casing
Elevations are in feet above sea level.
The remediation system was started on November 8, 1999.

X:\PROJECTS\Dwg2003\23966\XE\423966XE02A.dwg, Layout1, 06/02/2003 08:27:34 AM, lemmens

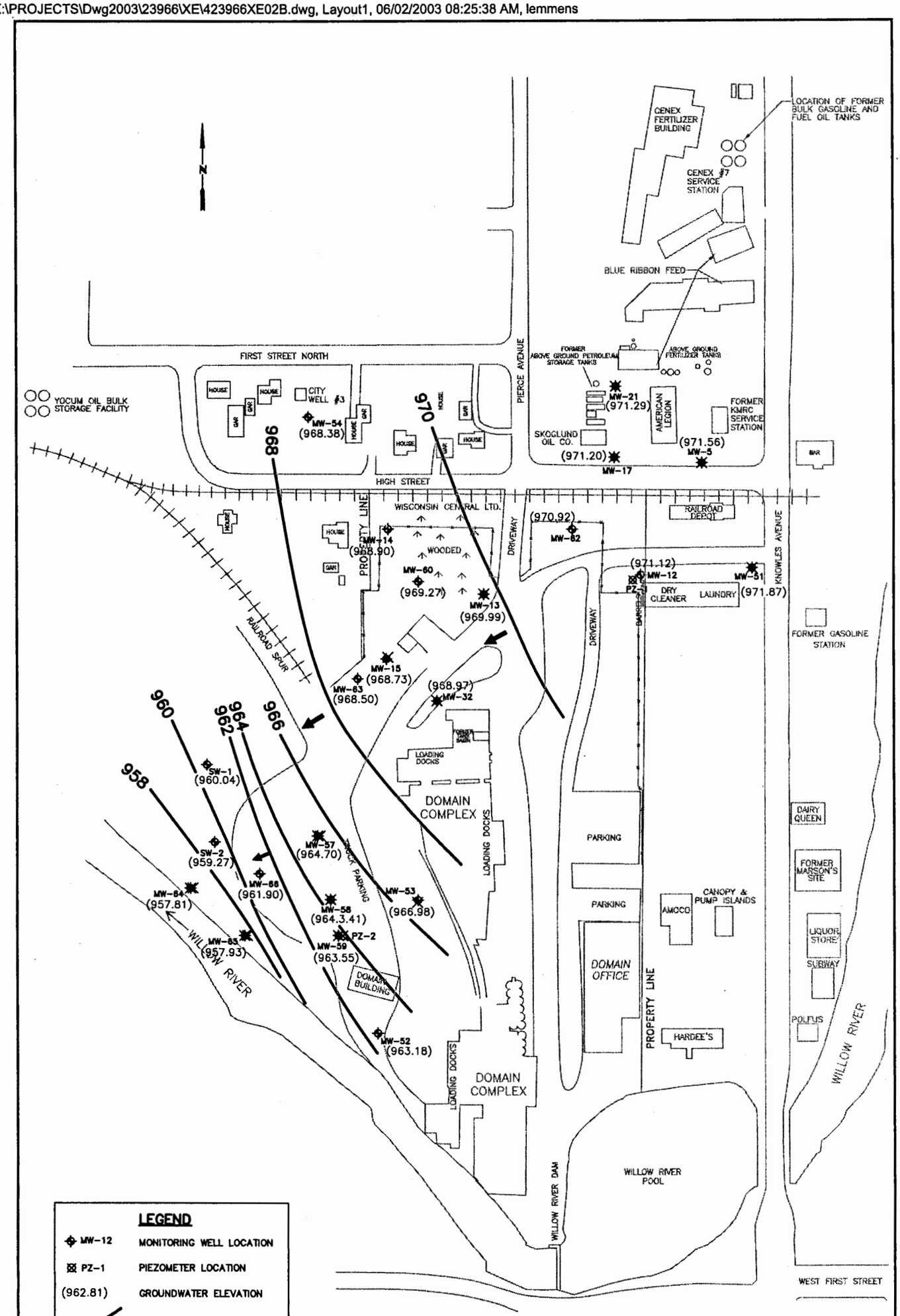


STS Consultants Ltd.

KERR-McGEE REFINING CORPORATION
FORMER SERVICE STATION KM-9542
447 NORTH KNOWLES AVE.
NEW RICHMOND, WISCONSIN
GROUNDWATER CONTOUR MAP (4/16/02)

FIGURE NO.	2A
SCALE	1" = 200'
STS PROJECT NO.	23966XE
DESIGNED BY	MWM
DATE	6-2-03
DRAWN BY	DJM
DATE	6-2-03
APPROVED BY	
DATE	
CADFILE	423966XE02A
XREF	

X:\PROJECTS\Dwg2003\23966\XE\423966XE02B.dwg, Layout1, 06/02/2003 08:25:38 AM, lemmens



LEGEND

- MW-12 — MONITORING WELL LOCATION
- PZ-1 — PIEZOMETER LOCATION
- (962.81) — GROUNDWATER ELEVATION
- 965 — GROUNDWATER CONTOUR
- APPROXIMATE GROUNDWATER FLOW DIRECTION

KERR–McGEE REFINING CORPORATION
FORMER SERVICE STATION KM–9542
1012 SOUTH WHITEWATER AVE.
NEW RICHMOND, WISCONSIN
GROUNDWATER CONTOUR MAP (8/07/02)

DESIGNED BY MWM	DATE 6–2–03
DRAWN BY DJM	DATE 6–2–03
APPROVED BY	DATE
CADFILE 423966XE02B	
XREF	

STS Consultants Ltd.

STS PROJECT NO. 23966XE

SCALE 1" = 200'

FIGURE NO. 2B

X:\PROJECTS\Dwg2003\23966\XE\423966XE02C.dwg, Layout1, 06/02/2003 08:40:41 AM, lemmens

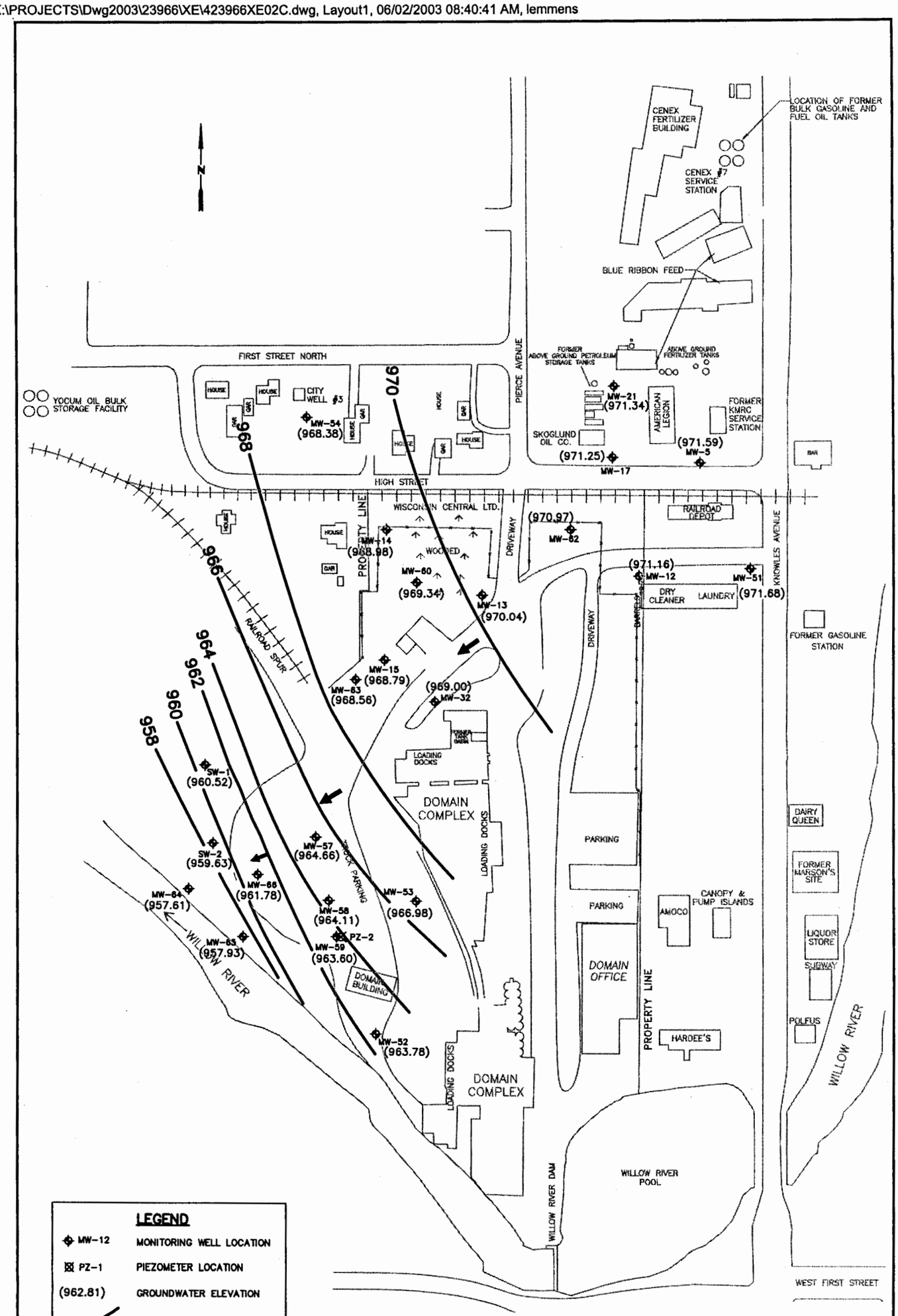


FIGURE NO. 2C

SCALE 1" = 200'

STS PROJECT NO. 23966XE

STS Consultants Ltd.

KERR-McGEE REFINING CORPORATION
FORMER SERVICE STATION KM-9542
447 NORTH KNOWLES AVE.
NEW RICHMOND, WISCONSIN
GROUNDWATER CONTOUR MAP (10/24/02)

DESIGNED BY MWM	DATE 6-2-03
DRAWN BY DJM	DATE 6-2-03
APPROVED BY	DATE
CADFILE 423966XE02C	
XREF	

Table 3
Summary of Post-Remedial
Analytical Test Results of Soil
Kerr-McGee Refining Corporation
Former Service Station KM-9542
New Richmond, Wisconsin

Date	Sample Location	Depth (ft.)	PID	Benzene (mg/kg)	Toluene (mg/kg)	Ethyl benzene (mg/kg)	Xylenes (mg/kg)	Total Trimethyl Benzene (mg/kg)	MTBE (mg/kg)	Naphthalene (mg/kg)
5/13/03	CS-1	0-1	<1	---	---	---	---	---	---	---
		1-2	<1	---	---	---	---	---	---	---
		2-3	<1	---	---	---	---	---	---	---
		3-4	<1	**0.0666**	0.333	0.212	1.309	1.637	<0.025	0.412
5/13/03	CS-2	0-1	<1	---	---	---	---	---	---	---
		1-2	<1	---	---	---	---	---	---	---
		2-3	<1	---	---	---	---	---	---	---
		3-4	<1	**0.0461**	0.358	0.167	1.041	0.2688	<0.025	0.0306
5/13/03	CS-3	0-1	<1	---	---	---	---	---	---	---
		1-2	<1	---	---	---	---	---	---	---
		2-3	<1	---	---	---	---	---	---	---
		3-4	<1	<0.025	0.199	0.0697	0.457	0.3023	<0.025	0.065
5/13/03	CS-4	0-1	<1	---	---	---	---	---	---	---
		1-2	<1	---	---	---	---	---	---	---
		2-3	<1	---	---	---	---	---	---	---
		3-4	<1	<0.025	0.0324	<0.025	0.0337	<0.025	<0.025	<0.025
Residual Contaminat Level				0.0055	1.5	2.9	4.1	---	---	---

Note: Bold font indicates NR 720.09 Table 1 Residual Contaminant Level exceedance.

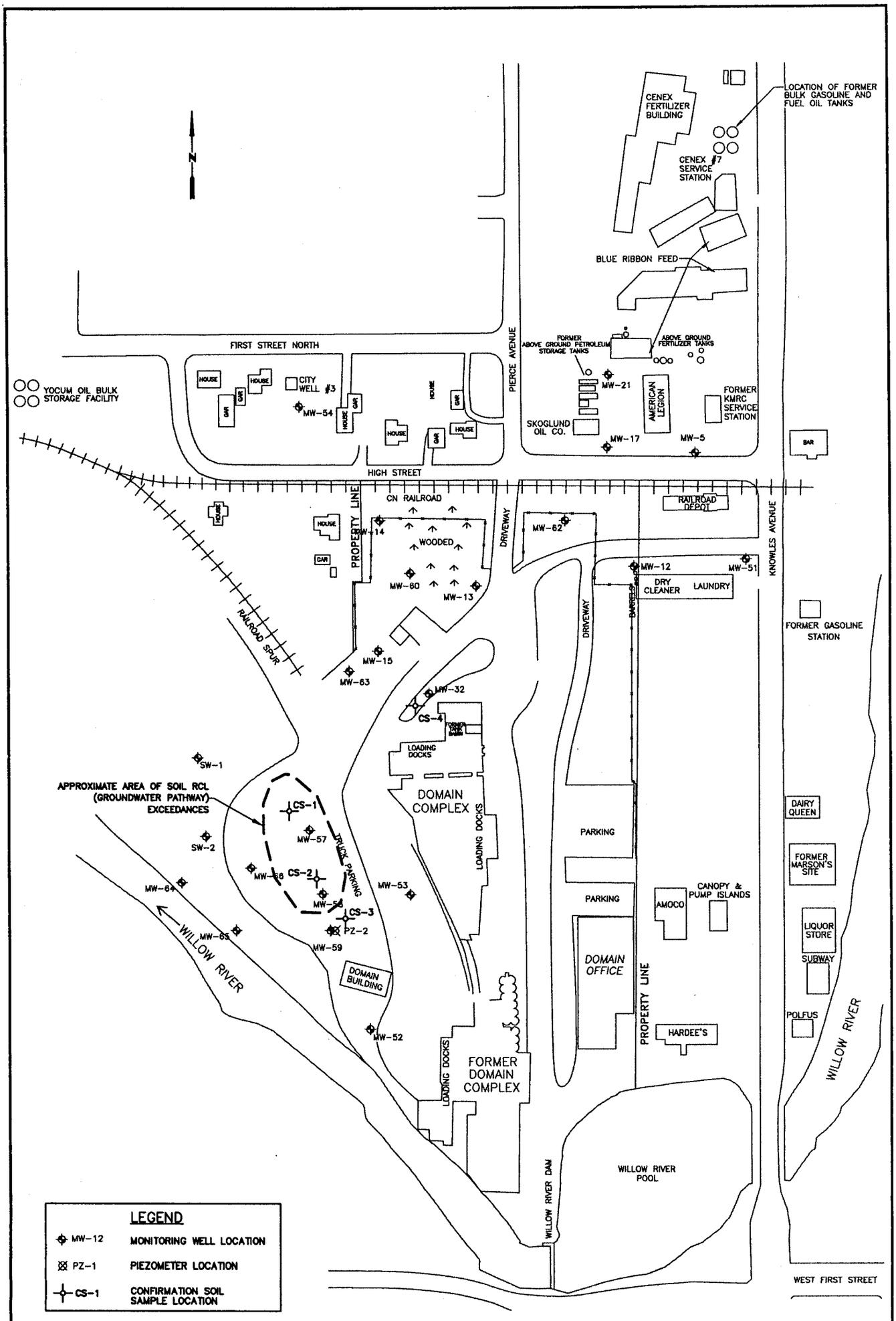


FIGURE NO. 4	SCALE 1" = 200'	STS PROJECT NO. 23966XE	STS Consultants Ltd.

KERR-McGEE REFINING CORPORATION
FORMER SERVICE STATION KM-9542
447 NORTH KNOWLES AVE.
NEW RICHMOND, WISCONSIN
CONFIRMATORY SOIL SAMPLE LOCATIONS

DESIGNED BY MWM	DATE 6-2-03
DRAWN BY DJM	DATE 6-2-03
APPROVED BY	DATE
CADFILE XREF	423966XE004

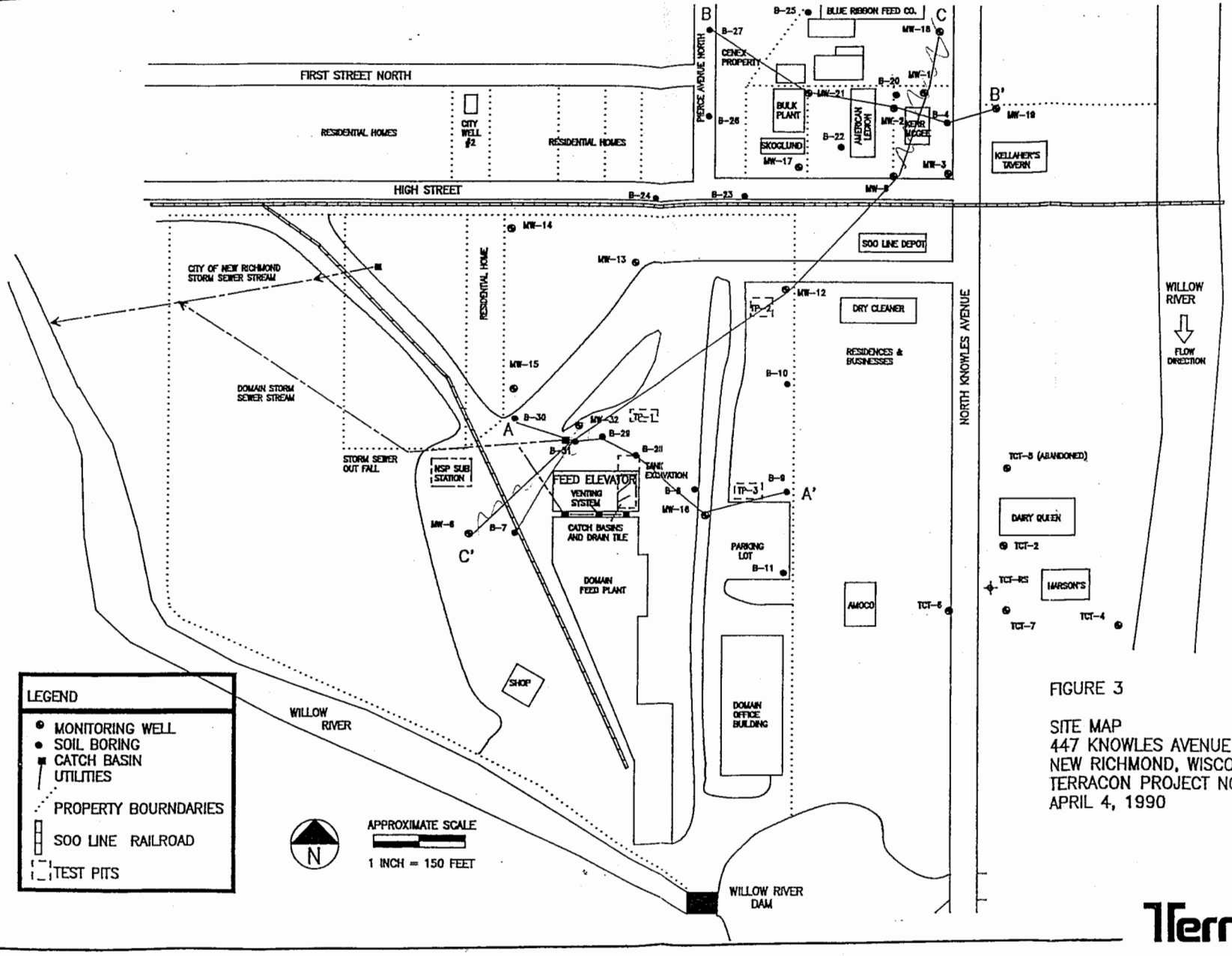
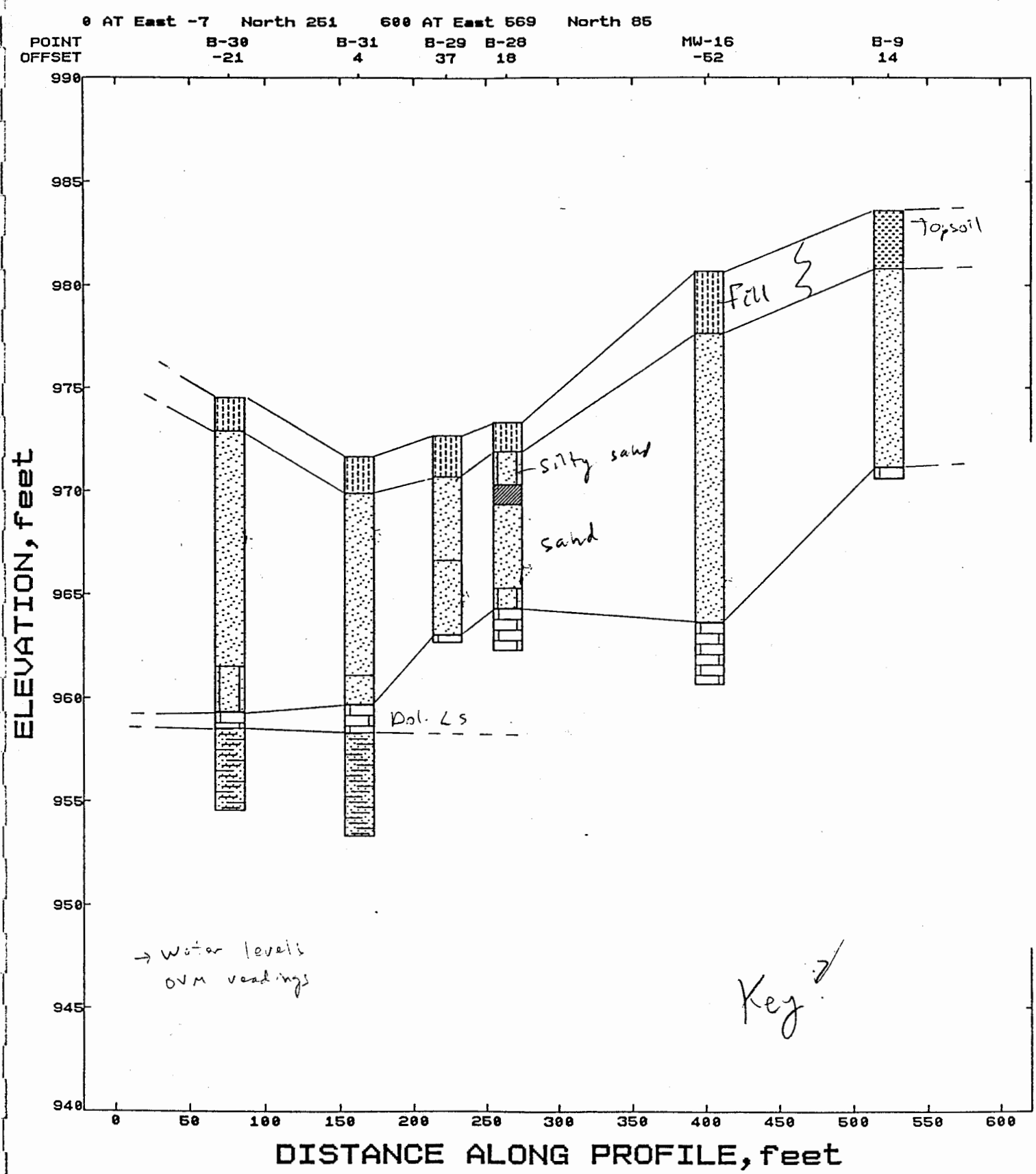


FIGURE 3

SITE MAP
447 KNOWLES AVENUE
NEW RICHMOND, WISCONSIN
TERRACON PROJECT NO. 41895071
APRIL 4, 1990

Terracon



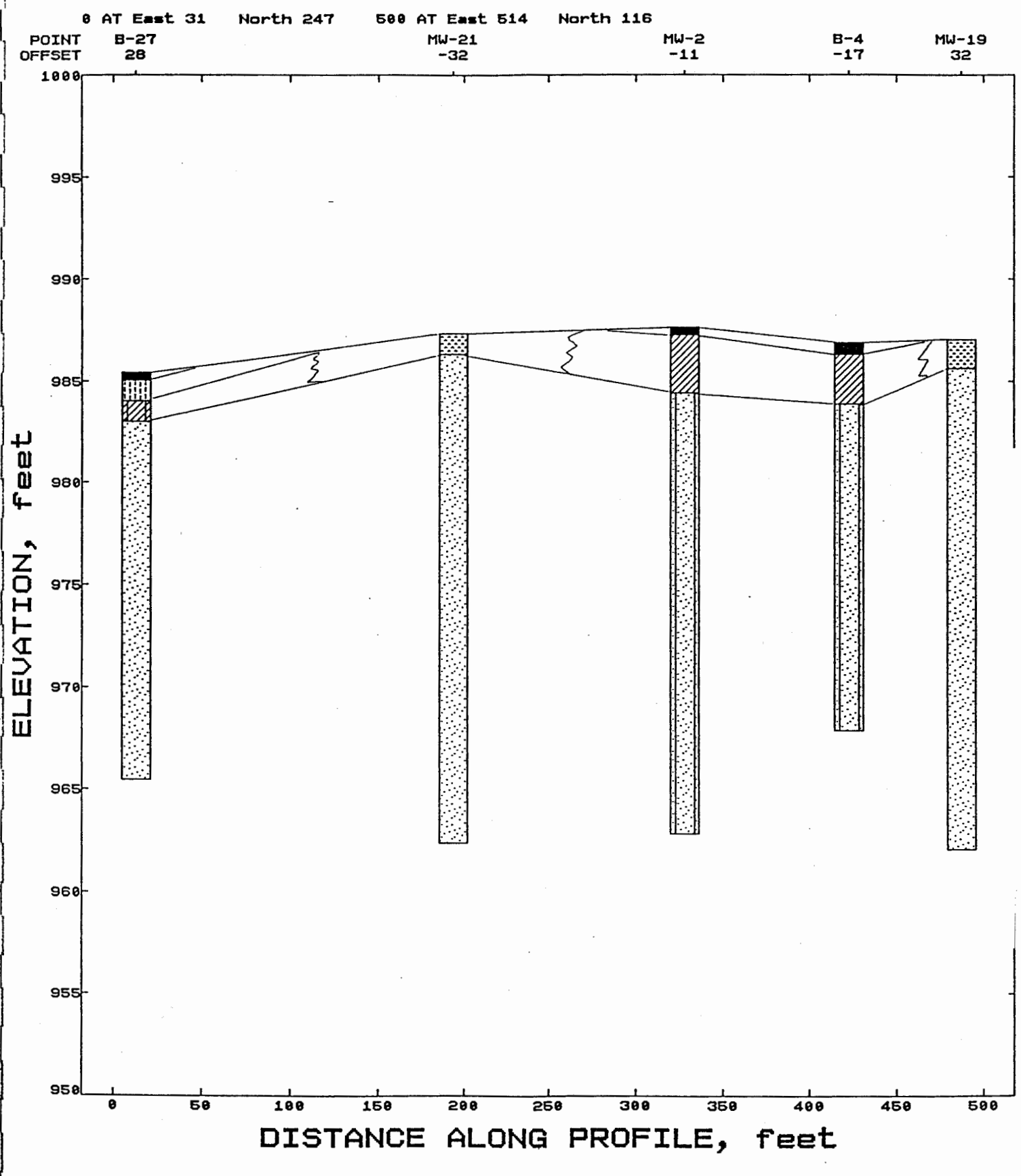
February 15, 1990

KERR MCGEE NEW RICHMOND - HIGH & KNOWLES STREET

SUBSURFACE PROFILE DOMAIN PROPERTY GEOLOGIC CROSS-SECTION A-A'

Figure 5

TERRACON CONSULTANTS, INCORPORATED -



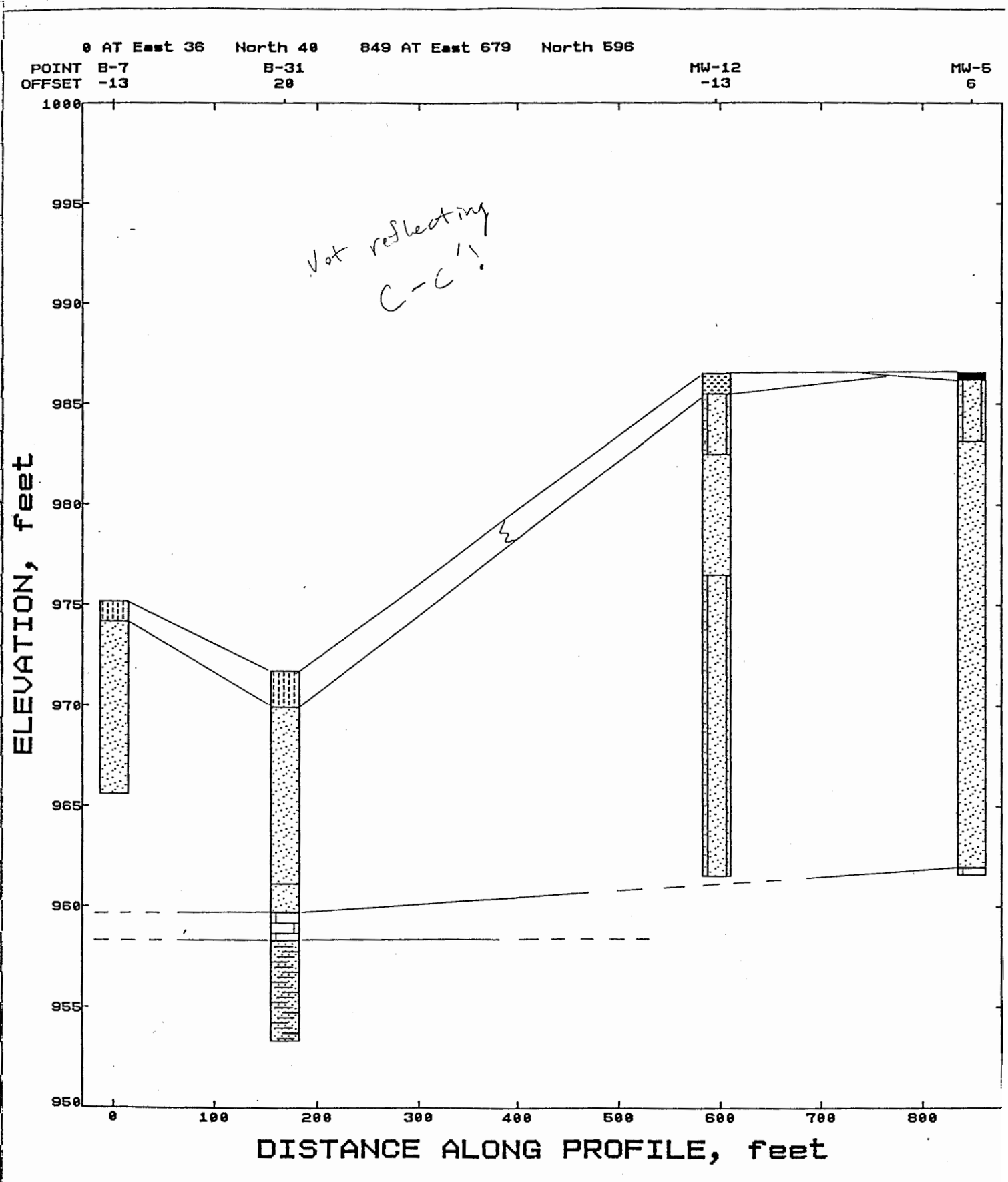
April 11, 1990

KERR MCGEE NEW RICHMOND - HIGH & KNOWLES STREET

SUBSURFACE PROFILE GEOLOGIC CROSS-SECTION B-B'

FIGURE 5

TERRACON CONSULTANTS, INCORPORATED -



April 11, 199

KERR MCGEE NEW RICHMOND - HIGH & KNOWLES STREET

SUBSURFACE PROFILE GEOLOGIC CROSS-SECTION C-C'

FIGURE

TERRACON CONSULTANTS, INCORPORATED -

STATEMENT OF AFFECTED PROPERTY LEGAL DESCRIPTIONS

As required by s.NR 726.05(3)f of the Wisconsin Administrative Code, Kerr-McGee Corporation is providing this signed statement that to the best of our knowledge the legal descriptions for each property that is within, or partially within, the contaminated site boundary for the former KMRC Service Station at 447 North Knowles Avenue, New Richmond, Wisconsin, have been provided to the Wisconsin Department of Natural Resources.

(Signature)

8/12/03
(Date)

CHRIS BIAGI
(Name)

Staff Environmental Specialist
(Title)

KERR-MCGEE REFINING CORP.
(Company)

KERR-McGEE REFINING CORPORATION
KERR-McGEE CENTER • OKLAHOMA CITY, OKLAHOMA 73125

Telephone 405.270.2688
Facsimile 405.270.3980

August 12, 2003

Mr. Karl Skoglund
Skoglund Properties, LLP
447 North Knowles Avenue
New Richmond, Wisconsin 54017

Re: Case Closure Information, Kerr-McGee Refining Corporation Former Service Station No. KM-9542, Wisconsin, 447 Knowles Avenue, New Richmond, Wisconsin, - WDNR BRRTS Case No. 03-56-000291 – WDNR FID No. 656058040 – STS Project No. 23966XE

Dear Mr. Skoglund:

Kerr-McGee Refining Corporation (KMRC) is providing you with information regarding regulatory case closure for the site at 447 North Knowles Avenue, New Richmond, Wisconsin. This letter is being provided in accordance with Chapter NR 726, Wisconsin Administrative Code requirements to notify you the site will be placed on the Wisconsin Department of Natural Resources (WDNR) Geographic Information System (GIS) Registry of Closed Remediation Sites for groundwater. In late 2001, the WDNR implemented the GIS Registry of Closed Remediation Sites. Closure means the WDNR will not be requiring further investigation or cleanup actions, other than natural attenuation, at this site. A WDNR Fact Sheet on natural attenuation is enclosed with this letter.

A closure request prepared by STS Consultants, Ltd. (STS) has been submitted to the WDNR and a copy is enclosed with this letter. Groundwater impact above Chapter NR 140, Wisconsin Administrative Code enforcement standards (ESs) originated at the 447 North Knowles Avenue site. Conditions for closure can be met when all properties within the site boundaries, where groundwater impact exceeds Chapter NR 140 groundwater ES are listed in the WDNR's GIS Registry. Information in the GIS Registry includes maps showing the location of properties where groundwater impact above Chapter NR 140 ES was found at the time of case closure. If you or any subsequent property owner wish to construct or reconstruct a water well on the site, special well construction standards might be necessary to protect the well from residual groundwater impact. Any well driller who proposes to construct a well in the future will need to contact the Drinking Water program within the WDNR to determine if there is a need for special well construction standards. A copy of the closure letter will be included in the site file in the GIS Registry of Closed Remediation Sites. The GIS Registry will be available on the WDNR's internet web site. Any well driller who proposes to construct a water supply well in Wisconsin must reference this GIS Registry.

Please review the attached legal description of your property, and notify KMRC within the next 30 days if the legal description is incorrect.

As an affected property owner, you have a right to contact the WDNR to provide any technical information you might have indicating closure should not be granted for this site. If you would

like to submit information to the WDNR relevant to this closure request, you should mail the information within 30 days of the date of this letter to:

Mr. Patrick Collins
Wisconsin Department of Natural Resources
990 Hillcrest, Suite 104
Baldwin, Wisconsin 54002-9263

It is our understanding that upon receipt of the GIS Registry information (attached with this letter) and 30 days after the date of this letter, WDNR will provide a letter indicating this site has been closed and no further action is necessary. If you are not copied on the final closure letter from WDNR, KMRC will provide you a copy of the letter.

If you need more information, please contact KMRC at (405) 270-2688, Mr. Michael Carney (STS) at (920) 406-3140, or Mr. Patrick Collins (WDNR) at (715) 684-2914.

Sincerely,

Chris Biagi, REM
Staff Environmental Specialist

Attachments:
WDNR Fact Sheet on Natural Attenuation
Closure Report Submitted to the Wisconsin Department of Natural Resources (WDNR)

Copy: Mr. Patrick Collins
Wisconsin Department of Natural Resources
990 Hillcrest, Suite 104
Baldwin, Wisconsin 54002-9263

Mr. Michael Carney (without enclosures)
STS Consultants, Ltd.
1035 Kepler Drive
Green Bay, Wisconsin 54311

KERR-McGEE REFINING CORPORATION
KERR-McGEE CENTER • OKLAHOMA CITY, OKLAHOMA 73125

Telephone 405.270.2688
Facsimile 405.270.3980

August 12, 2003

American Legion
129 High Street
New Richmond, Wisconsin 54017

Re: Case Closure Information, Kerr-McGee Refining Corporation Former Service Station No. KM-9542, Wisconsin, 447 Knowles Avenue, New Richmond, Wisconsin, - WDNR BRRTS Case No. 03-56-000291 – WDNR FID No. 656058040 – STS Project No. 23966XE

Dear Sirs:

Kerr-McGee Refining Corporation (KMRC) is providing you with information regarding regulatory case closure for the site at 447 North Knowles Avenue, New Richmond, Wisconsin. This letter is being provided in accordance with Chapter NR 726, Wisconsin Administrative Code requirements to notify you the site will be placed on the Wisconsin Department of Natural Resources (WDNR) Geographic Information System (GIS) Registry of Closed Remediation Sites for groundwater. In late 2001, the WDNR implemented the GIS Registry of Closed Remediation Sites. Closure means the WDNR will not be requiring further investigation or cleanup actions, other than natural attenuation, at this site. A WDNR Fact Sheet on natural attenuation is enclosed with this letter.

A closure request prepared by STS Consultants, Ltd. (STS) has been submitted to the WDNR and a copy is enclosed with this letter. Groundwater impact above Chapter NR 140, Wisconsin Administrative Code enforcement standards (ESs) originated at the 447 North Knowles Avenue site. Conditions for closure can be met when all properties within the site boundaries, where groundwater impact exceeds Chapter NR 140 groundwater ES are listed in the WDNR's GIS Registry. Information in the GIS Registry includes maps showing the location of properties where groundwater impact above Chapter NR 140 ES was found at the time of case closure. If you or any subsequent property owner wish to construct or reconstruct a water well on the site, special well construction standards might be necessary to protect the well from residual groundwater impact. Any well driller who proposes to construct a well in the future will need to contact the Drinking Water program within the WDNR to determine if there is a need for special well construction standards. A copy of the closure letter will be included in the site file in the GIS Registry of Closed Remediation Sites. The GIS Registry will be available on the WDNR's internet web site. Any well driller who proposes to construct a water supply well in Wisconsin must reference this GIS Registry.

Please review the attached legal description of your property, and notify KMRC within the next 30 days if the legal description is incorrect.

As an affected property owner, you have a right to contact the WDNR to provide any technical information you might have indicating closure should not be granted for this site. If you would

like to submit information to the WDNR relevant to this closure request, you should mail the information within 30 days of the date of this letter to:

Mr. Patrick Collins
Wisconsin Department of Natural Resources
990 Hillcrest, Suite 104
Baldwin, Wisconsin 54002-9263

It is our understanding that upon receipt of the GIS Registry information (attached with this letter) and 30 days after the date of this letter, WDNR will provide a letter indicating this site has been closed and no further action is necessary. If you are not copied on the final closure letter from WDNR, KMRC will provide you a copy of the letter.

If you need more information, please contact KMRC at (405) 270-2688 or Mr. Michael Carney (STS) at (920) 406-3140, or Mr. Patrick Collins (WDNR) at (715) 684-2914.

Sincerely,

Chris Biagi, REM
Staff Environmental Specialist

Attachments:
WDNR Fact Sheet on Natural Attenuation
Closure Report Submitted to the Wisconsin Department of Natural Resources (WDNR)

Copy: Mr. Patrick Collins
Wisconsin Department of Natural Resources
990 Hillcrest, Suite 104
Baldwin, Wisconsin 54002-9263

Mr. Michael Carney (without enclosures)
STS Consultants, Ltd.
1035 Kepler Drive
Green Bay, Wisconsin 54311

KERR-McGEE REFINING CORPORATION
KERR-McGEE CENTER • OKLAHOMA CITY, OKLAHOMA 73125

Telephone 405.270.2688
Facsimile 405.270.3980

August 12, 2003

Mr. James J. Panter
256 High Street
New Richmond, Wisconsin 54017

Re: Case Closure Information, Kerr-McGee Refining Corporation Former Service Station No. KM-9542, Wisconsin, 447 Knowles Avenue, New Richmond, Wisconsin, - WDNR BRRTS Case No. 03-56-000291 – WDNR FID No. 656058040 – STS Project No. 23966XE

Dear Mr. Panter:

Kerr-McGee Refining Corporation (KMRC) is providing you with information regarding regulatory case closure for the site at 447 North Knowles Avenue, New Richmond, Wisconsin. This letter is being provided in accordance with Chapter NR 726, Wisconsin Administrative Code requirements to notify you the site will be placed on the Wisconsin Department of Natural Resources (WDNR) Geographic Information System (GIS) Registry of Closed Remediation Sites for groundwater. In late 2001, the WDNR implemented the GIS Registry of Closed Remediation Sites. Closure means the WDNR will not be requiring further investigation or cleanup actions, other than natural attenuation, at this site. A WDNR Fact Sheet on natural attenuation is enclosed with this letter.

A closure request prepared by STS Consultants, Ltd. (STS) has been submitted to the WDNR and a copy is enclosed with this letter. Groundwater impact above Chapter NR 140, Wisconsin Administrative Code enforcement standards (ESs) originated at the 447 North Knowles Avenue site. Conditions for closure can be met when all properties within the site boundaries, where groundwater impact exceeds Chapter NR 140 groundwater ES are listed in the WDNR's GIS Registry. Information in the GIS Registry includes maps showing the location of properties where groundwater impact above Chapter NR 140 ES was found at the time of case closure. If you or any subsequent property owner wish to construct or reconstruct a water well on the site, special well construction standards might be necessary to protect the well from residual groundwater impact. Any well driller who proposes to construct a well in the future will need to contact the Drinking Water program within the WDNR to determine if there is a need for special well construction standards. A copy of the closure letter will be included in the site file in the GIS Registry of Closed Remediation Sites. The GIS Registry will be available on the WDNR's internet web site. Any well driller who proposes to construct a water supply well in Wisconsin must reference this GIS Registry.

Please review the attached legal description of your property, and notify KMRC within the next 30 days if the legal description is incorrect.

As an affected property owner, you have a right to contact the WDNR to provide any technical information you might have indicating closure should not be granted for this site. If you would

like to submit information to the WDNR relevant to this closure request, you should mail the information within 30 days of the date of this letter to:

Mr. Patrick Collins
Wisconsin Department of Natural Resources
990 Hillcrest, Suite 104
Baldwin, Wisconsin 54002-9263

It is our understanding that upon receipt of the GIS Registry information (attached with this letter) and 30 days after the date of this letter, WDNR will provide a letter indicating this site has been closed and no further action is necessary. If you are not copied on the final closure letter from WDNR, KMRC will provide you a copy of the letter.

If you need more information, please contact KMRC at (405) 270-2688, Mr. Michael Carney (STS) at (920) 406-3140, or Mr. Patrick Collins (WDNR) at (715) 684-2914.

Sincerely,

Chris Biagi, REM
Staff Environmental Specialist

Attachments:
WDNR Fact Sheet on Natural Attenuation
Closure Report Submitted to the Wisconsin Department of Natural Resources (WDNR)

Copy: Mr. Patrick Collins
Wisconsin Department of Natural Resources
990 Hillcrest, Suite 104
Baldwin, Wisconsin 54002-9263

Mr. Michael Carney (without enclosures)
STS Consultants, Ltd.
1035 Kepler Drive
Green Bay, Wisconsin 54311

KERR-McGEE REFINING CORPORATION
KERR-McGEE CENTER • OKLAHOMA CITY, OKLAHOMA 73125

Telephone 405.270.2688
Facsimile 405.270.3980

August 12, 2003

Mr. William Buell
Domain Inc.
201 North Knowles Avenue
New Richmond, Wisconsin 54017

Re: Case Closure Information, Kerr-McGee Refining Corporation Former Service Station No. KM-9542, Wisconsin, 447 Knowles Avenue, New Richmond, Wisconsin, - WDNR BRRTS Case No. 03-56-000291 – WDNR FID No. 656058040 – STS Project No. 23966XE

Dear Mr. Buell:

Kerr-McGee Refining Corporation (KMRC) is providing you with information regarding regulatory case closure for the site at 447 North Knowles Avenue, New Richmond, Wisconsin. This letter is being provided in accordance with Chapter NR 726, Wisconsin Administrative Code requirements to notify you the site will be placed on the Wisconsin Department of Natural Resources (WDNR) Geographic Information System (GIS) Registry of Closed Remediation Sites for soil and groundwater. In late 2001, the WDNR implemented the GIS Registry of Closed Remediation Sites. Closure means the WDNR will not be requiring further investigation or cleanup actions, other than natural attenuation, at this site. A WDNR Fact Sheet on natural attenuation is enclosed with this letter.

A closure request prepared by STS Consultants, Ltd. (STS) has been submitted to the WDNR and a copy is enclosed with this letter. Groundwater impact above Chapter NR 140, Wisconsin Administrative Code enforcement standards (ESs) originated at the 447 North Knowles Avenue site. In addition, soil impacts exceeding Chapter NR 720 Wisconsin Administrative Code Table 1, Groundwater Pathway Residual Containment Level (RCL) were detected. Conditions for closure can be met when all properties within the site boundaries, where groundwater impact exceeds Chapter NR 140 groundwater ES, and soil impacts exceeding Chapter NR 720 RCLs are listed in the WDNR's GIS Registry. Information in the GIS Registry includes maps showing the location of properties where groundwater impact above Chapter NR 140 ES and soil impact above Chapter NR 720 RCLs was found at the time of case closure. If you or any subsequent property owner wish to construct or reconstruct a water well on the site, special well construction standards might be necessary to protect the well from residual groundwater impact. Any well driller who proposes to construct a well in the future will need to contact the Drinking Water program within the WDNR to determine if there is a need for special well construction standards. A copy of the closure letter will be included in the site file in the GIS Registry of Closed Remediation Sites. The GIS Registry will be available on the WDNR's internet web site. Any well driller who proposes to construct a water supply well in Wisconsin must reference this GIS Registry.

Please review the attached legal description of your property, and notify KMRC within the next 30 days if the legal description is incorrect.

As an affected property owner, you have a right to contact the WDNR to provide any technical information you might have indicating closure should not be granted for this site. If you would like to submit information to the WDNR relevant to this closure request, you should mail the information within 30 days of the date of this letter to:

Mr. Patrick Collins
Wisconsin Department of Natural Resources
990 Hillcrest, Suite 104
Baldwin, Wisconsin 54002-9263

It is our understanding that upon receipt of the GIS Registry information (attached with this letter) and 30 days after the date of this letter, WDNR will provide a letter indicating this site has been closed and no further action is necessary. If you are not copied on the final closure letter from WDNR, KMRC will provide you a copy of the letter.

If you need more information, please contact KMRC at (405) 270-2688, Mr. Michael Carney (STS) at (920) 406-3140, or Mr. Patrick Collins (WDNR) at (715) 684-2914.

Sincerely,

Chris Biagi, REM
Staff Environmental Specialist

Attachments:
WDNR Fact Sheet on Natural Attenuation
Closure Report Submitted to the WDNR

Copy: Mr. Patrick Collins
Wisconsin Department of Natural Resources
990 Hillcrest, Suite 104
Baldwin, Wisconsin 54002-9263

Mr. Michael Carney (without enclosures)
STS Consultants, Ltd.
1035 Kepler Drive
Green Bay, Wisconsin 54311

STS CONSULTANTS

STS Consultants, Ltd.
1035 Kepler Drive
Green Bay, Wisconsin 54311-8320

voice 920-468-1978
fax 920-468-3312
web www.stsconsultants.com

August 12, 2003

Mr. Geoffrey C. Nokes
Canadian National Midwest Division
17641 South Ashland Avenue
Homewood, Illinois 60430-1345

Re: Notification of Potential for Residual Groundwater Petroleum Impacts on Canadian National Railroad Right-of-Way Adjoining the Former Kerr-McGee Refining Corporation Service Station KM-9542, 447 North Knowles Avenue, New Richmond, Wisconsin -- WDNR BRRTS No. 03-56-000291 -- WDNR FID No. 656058040 -- STS Project No. 23966XE

Dear Mr. Nokes:

On behalf of Kerr-McGee Refining Corporation (KMRC). STS Consultants, Ltd. (STS) has prepared this notification of the potential for residual groundwater petroleum impacts in the Canadian National Railroad right-of-way adjacent to the former KMRC service station located at 447 North Knowles Avenue in New Richmond, Wisconsin (see attached Figure). This notification is being submitted in accordance with requirements in Wisconsin Administrative Code Chapter NR 726.

Petroleum concentrations in the groundwater on the Canadian National Railroad right-of-way exceed the state groundwater Enforcement Standards (ES) established in Chapter NR 140 Wisconsin Administrative Code. Petroleum concentrations in groundwater are stable or decreasing and will likely degrade naturally over time. Natural attenuation of groundwater is a remedy that will meet the requirements for case closure under Chapter NR 726 Wisconsin Administrative Code.

STS is currently preparing a closure report for this site. After this case has been granted closure, all properties within the site boundaries where groundwater impacts exceed Chapter NR 140 groundwater ES will be listed on the Wisconsin Department of Natural Resources (WDNR) 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 impacts above Chapter NR 140 ES were found at the time that the case was closed. This GIS Registry will be available to the general public on the WDNR's Internet website.

After the WDNR makes a decision on the closure request, it will be documented in a letter. If closure is granted, you may obtain a copy of this letter by requesting a copy from us, by contacting the WDNR, 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.

Canadian National Midwest Division
STS Project No. 23966XE
August 12, 2003

If you have any questions or comments, please contact Mr. Michael Carney of STS in Green Bay, Wisconsin at (920) 406-3140.

Sincerely,

STS CONSULTANTS, LTD.

Mark W. Magee
Senior Consultant

Michael J. Carney, P.G.
Associate Geologist

MWM/djl

Attachment:
Groundwater Sample Locations and Affected Properties (Figure 3)

Copy: Mr. Chris Biagi (without enclosures)
Kerr-McGee Refining Corporation
123 Robert S. Kerr Avenue
Oklahoma City, Oklahoma 73102

STS CONSULTANTS

STS Consultants, Ltd.
1035 Kepler Drive
Green Bay, Wisconsin 54311-8320

voice 920-468-1978
fax 920-468-3312
web www.stsconsultants.com

August 12, 2003

Mr. Dennis A. Horner
City of New Richmond
City Administrator/Utility Manager
156 East 1st Street
New Richmond, Wisconsin 54017

Re: Notification of Potential for Residual Groundwater Petroleum Impacts on the City of New Richmond Right-of-Way Adjoining the Former Kerr-McGee Refining Corporation Service Station KM-9542, 447 North Knowles Avenue, New Richmond, Wisconsin -- WDNR BRRTS No. 03-56-000291 -- WDNR FID No. 656058040 -- STS Project No. 23966XE

Dear Mr. Horner:

On behalf of Kerr-McGee Refining Corporation (KMRC). STS Consultants, Ltd. (STS), has prepared this notification of the potential for residual groundwater petroleum impacts in the City of New Richmond right-of-way (High Street) adjacent to the former KMRC service station located at 447 North Knowles Avenue in New Richmond, Wisconsin (see attached Figure). This notification is being submitted in accordance with requirements in Wisconsin Administrative Code Chapter NR 726.

Petroleum concentrations in the groundwater on the High Street right-of-way exceed the state groundwater Enforcement Standards (ES) established in Chapter NR 140 Wisconsin Administrative Code. Petroleum concentrations in groundwater are stable or decreasing and will likely degrade naturally over time. Natural attenuation of groundwater is a remedy that will meet the requirements for case closure under Chapter NR 726 Wisconsin Administrative Code.

STS is currently preparing a closure report for this site. After this case has been granted closure, all properties within the site boundaries where groundwater impacts exceed Chapter NR 140 groundwater ES will be listed on the Wisconsin Department of Natural Resources (WDNR) 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 impacts above Chapter NR 140 ES were ound at the time that the case was closed. This GIS Registry will be available to the general public on the WDNR's Internet website.

After the WDNR makes a decision on the closure request, it will be documented in a letter. If closure is granted, you may obtain a copy of this letter by requesting a copy from us, by contacting the WDNR, 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.

City of New Richmond
STS Project No. 23966XE
August 12, 2003

If you have any questions or comments, please contact Mr. Michael Carney of STS in Green Bay, Wisconsin at (920) 406-3140.

Sincerely,

STS CONSULTANTS, LTD.

Mark W. Magee
Senior Consultant

Michael J. Carney, P.G.
Associate Geologist

MWM/djl

Attachment:
Groundwater Sample Locations and Affected Properties (Figure 3)

Copy: Mr. Chris Biagi (without enclosures)
Kerr-McGee Refining Corporation
123 Robert S. Kerr Avenue
Oklahoma City, Oklahoma 73102