GIS REGISTRY
Cover Sheet

August 2011
(RR-5367)

Source Property Information

CLOSURE DATE: Mar 6, 2012

BRRTS #: **02-13-551301**

FID #: 113004430

ACTIVITY NAME: EAST MAIN STREET DIESEL SPILL

DATCP #:

PROPERTY ADDRESS: 717 E Main St

PECFA#:

MUNICIPALITY: Madison

PARCEL ID #: 070913418020

***WTM COORDINATES:**

X: **570977** Y: **289711**

** Coordinates are in WTM83, NAD83 (1991)*

WTM COORDINATES REPRESENT:

- (●) Approximate Center Of Contaminant Source
- ( ) Approximate Source Parcel Center

Please check as appropriate: (BRRTS Action Code)

Contaminated Media:

- [x] Groundwater Contamination > ES *(236)*
  - [ ] Contamination in ROW
  - [ ] Off-Source Contamination

  *(**note:** for list of off-source properties see "Impacted Off-Source Property" form)*

- [x] Soil Contamination > *RCL or **SSRCL *(232)*
  - [ ] Contamination in ROW
  - [ ] Off-Source Contamination

  *(**note:** for list of off-source properties see "Impacted Off-Source Property" form)*

Land Use Controls:

- [x] N/A (*Not Applicable*)
- [ ] Soil: maintain industrial zoning *(220)*

  *(**note:** soil contamination concentrations between non-industrial and industrial levels)*
- [ ] Structural Impediment *(224)*
- [ ] Site Specific Condition *(228)*
- [ ] Cover or Barrier *(222)*

  *(**note:** maintenance plan for groundwater or direct contact)*
- [ ] Vapor Mitigation *(226)*
- [ ] Maintain Liability Exemption *(230)*

  *(**note:** local government unit or economic development corporation was directed to take a response action)*

Monitoring Wells:

Are all monitoring wells properly abandoned per NR 141? *(234)*

(●) Yes ( ) No ( ) N/A

** Residual Contaminant Level*
***Site Specific Residual Contaminant Level*

GIS Registry Checklist

This Adobe Fillable form is intended to provide a list of information that is required for evaluation for case closure. It is to be used in conjunction with Form 4400-202, Case Closure Request. The closure of a case means that the Department has determined that no further response is required at that time based on the information that has been submitted to the Department.

NOTICE: Completion of this form is mandatory for applications for case closure pursuant to ch. 292, Wis. Stats. and ch. NR 726, Wis. Adm. Code, including cases closed under ch. NR 746 and ch. NR 726. The Department will not consider, or act upon your application, unless all applicable sections are completed on this form and the closure fee and any other applicable fees, required under ch. NR 749, Wis. Adm. Code, Table 1 are included. It is not the Department's intention to use any personally identifiable information from this form for any purpose other than reviewing closure requests and determining the need for additional response action. The Department may provide this information to requesters as required by Wisconsin's Open Records law [ss. 19.31 - 19.39, Wis. Stats.].

BRRTS #: 02-13-551301 *(No Dashes)* PARCEL ID #: 070913418020

ACTIVITY NAME: East Main Street Diesel Spill

CLOSURE DOCUMENTS (the Department adds these items to the final GIS packet for posting on the Registry)

- [x] **Closure Letter**
- [ ] **Maintenance Plan** (*if activity is closed with a land use limitation or condition (land use control) under s. 292.12, Wis. Stats.*)
- [ ] **Continuing Obligation Cover Letter** (for property owners affected by residual contamination and/or continuing obligations)
- [ ] **Conditional Closure Letter**
- [ ] **Certificate of Completion (COC)** (for VPLE sites)

SOURCE LEGAL DOCUMENTS

- [x] **Deed:** The most recent deed as well as legal descriptions, for the **Source Property** (where the contamination originated). Deeds for other, off-source (off-site) properties are located in the **Notification** section.
  Note: *If a property has been purchased with a land contract and the purchaser has not yet received a deed, a copy of the land contract which includes the legal description shall be submitted instead of the most recent deed. If the property has been inherited, written documentation of the property transfer should be submitted along with the most recent deed.*
- [x] **Certified Survey Map:** A copy of the certified survey map or the relevant section of the recorded plat map *for those properties where the legal description in the most recent deed refers to a certified survey map or a recorded plat map.* (lots on subdivided or platted property (e.g. lot 2 of xyz subdivision)).

  Figure #: NA **Title: Block 130 - Portion of Recorded Plan Map**
- [x] **Signed Statement:** A statement signed by the Responsible Party (RP), which states that he or she believes that the attached legal description accurately describes the correct contaminated property.

MAPS (meeting the visual aid requirements of s. NR 716.15(2)(h))

Maps must be no larger than 11 x 17 inches unless the map is submitted electronically.

- [x] **Location Map:** A map outlining all properties within the contaminated site boundaries on a U.S.G.S. topographic map or plat map in sufficient detail to permit easy location of all parcels. If groundwater standards are exceeded, include the location of all potable wells within 1200 feet of the site.
  Note: *Due to security reasons municipal wells are not identified on GIS Packet maps. However, the locations of these municipal wells must be identified on Case Closure Request maps.*

  Figure #: A-2 **Title: Site Location Map**
- [x] **Detailed Site Map:** A map that shows all relevant features (buildings, roads, individual property boundaries, contaminant sources, utility lines, monitoring wells and potable wells) within the contaminated area. This map is to show the location of all contaminated public streets, and highway and railroad rights-of-way in relation to the source property and in relation to the boundaries of groundwater contamination exceeding a ch. NR 140 Enforcement Standard (ES), and/or in relation to the boundaries of soil contamination exceeding a Residual Contaminant Level (RCL) or a Site Specific Residual Contaminant Levels (SSRCL) as determined under s. NR 720.09, 720.11 and 720.19.

  Figure #: A-3A, A-3B **Title: Site Plan, Spill Area Site Plan**
- [x] **Soil Contamination Contour Map:** For sites closing with residual soil contamination, this map is to show the location of all contaminated soil and a single contour showing the horizontal extent of each area of contiguous residual soil contamination that exceeds a Residual Contaminant Level (RCL) or a Site Specific Residual Contaminant Level (SSRCL)as determined under s. NR 720.09, 720.11 and 720.19.

  Figure #: D-1 **Title: Post-Excavation Soil Sample Results**

BRRTS #: 02-13-551301 ACTIVITY NAME: East Main Street Diesel Spill

MAPS (continued)

☒ **Geologic Cross-Section Map:** A map showing the source location and vertical extent of residual soil contamination exceeding a Residual Contaminant Level (RCL) or a Site Specific Residual Contaminant Level (SSRCL). If groundwater contamination exceeds a ch. NR 140 Enforcement Standard (ES) when closure is requested, show the source location and vertical extent, water table and piezometric elevations, and locations and elevations of geologic units, bedrock and confining units, if any.

Figure #: D-3 **Title: Post-Remediation Geologic Cross Section**

Figure #: NA **Title:**

☒ **Groundwater Isoconcentration Map:** For sites closing with residual groundwater contamination, this map shows the horizontal extent of all groundwater contamination exceeding a ch. NR140 Preventive Action Limit (PAL) and an Enforcement Standard (ES). Indicate the direction and date of groundwater flow, based on the most recent sampling data.
Note: *This is intended to show the total area of contaminated groundwater.*

Figure #: E-2 **Title: Groundwater Analytical Results Summary**

☒ **Groundwater Flow Direction Map:** A map that represents groundwater movement at the site. If the flow direction varies by more then 20° over the history of the site, submit 2 groundwater flow maps showing the maximum variation in flow direction.

Figure #: E-3 **Title: Groundwater Table Elevations and Contours 7/14/2008**

Figure #: E-4, E-5 **Title: Groundwater Table Elevations and Contours 7/28/2006, 4/21/2011**

TABLES (meeting the requirements of s. NR 716.15(2)(h)(3))

Tables must be no larger than 11 x 17 inches unless the table is submitted electronically. Tables must not contain shading and/or cross-hatching. The use of **BOLD** or *ITALICS* is acceptable.

☒ **Soil Analytical Table:** A table showing remaining soil contamination with analytical results and collection dates.
Note: This is one table of results for the contaminants of concern. Contaminants of concern are those that were found during the site investigation, that remain after remediation. It may be necessary to create a new table to meet this requirement.

Table #: H-1A, H-1B **Title: Soil Analytical Results Summary**

☒ **Groundwater Analytical Table:** Table(s) that show the most recent analytical results and collection dates, for all monitoring wells and any potable wells for which samples have been collected.

Table #: E-1A, E-1B **Title: Groundwater Analytical Results Summary**

☒ **Water Level Elevations:** Table(s) that show the previous four (at minimum) water level elevation measurements/dates from all monitoring wells. If present, free product is to be noted on the table.

Table #: E-6 **Title: Water Level Summary**

IMPROPERLY ABANDONED MONITORING WELLS

For each monitoring well not properly abandoned according to requirements of s. NR 141.25 include the following documents.
Note: *If the site is being listed on the GIS Registry for only an improperly abandoned monitoring well you will only need to submit the documents in this section for the GIS Registry Packet.*

☒ **Not Applicable**

☐ **Site Location Map:** A map showing all surveyed monitoring wells with specific identification of the monitoring wells which have not been properly abandoned.
Note: *If the applicable monitoring wells are distinctly identified on the Detailed Site Map this Site Location Map is not needed.*

Figure #: **Title:**

☐ **Well Construction Report:** Form 4440-113A for the applicable monitoring wells.

☐ **Deed:** The most recent deed as well as legal descriptions for each property where a monitoring well was not properly abandoned.

☐ **Notification Letter:** Copy of the notification letter to the affected property owner(s).

BRRTS #: 02-13-551301 ACTIVITY NAME: East Main Street Diesel Spill

NOTIFICATIONS

Source Property

☐ **Not Applicable**

☐ **Letter To Current Source Property Owner:** If the source property is owned by someone other than the person who is applying for case closure, include a copy of the letter notifying the current owner of the source property that case closure has been requested.

☐ **Return Receipt/Signature Confirmation:** Written proof of date on which confirmation was received for notifying current source property owner.

Off-Source Property

Group the following information per individual property and label each group according to alphabetic listing on the "Impacted Off-Source Property" attachment.

☐ **Not Applicable**

☐ **Letter To "Off-Source" Property Owners:** Copies of all letters sent by the Responsible Party (RP) to owners of properties with groundwater exceeding an Enforcement Standard (ES), and to owners of properties that will be affected by a land use control under s. 292.12, Wis. Stats.
Note: *Letters sent to off-source properties regarding residual contamination must contain standard provisions in Appendix A of ch. NR 726.*

Number of "Off-Source" Letters:

☐ **Return Receipt/Signature Confirmation:** Written proof of date on which confirmation was received for notifying any off-source property owner.

☐ **Deed of "Off-Source" Property:** The most recent deed(s) as well as legal descriptions, for all affected deeded **off-source property(ies).** This does not apply to right-of-ways.
Note: *If a property has been purchased with a land contract and the purchaser has not yet received a deed, a copy of the land contract which includes the legal description shall be submitted instead of the most recent deed. If the property has been inherited, written documentation of the property transfer should be submitted along with the most recent deed.*

☐ **Certified Survey Map:** A copy of the certified survey map or the relevant section of the recorded plat map *for those properties where the legal description in the most recent deed refers to a certified survey map or a recorded plat map.* (lots on subdivided or platted property (e.g. lot 2 of xyz subdivision)).

Figure #: **Title:**

☐ **Letter To "Governmental Unit/Right-Of-Way" Owners:** Copies of all letters sent by the Responsible Party (RP) to a city, village, municipality, state agency or any other entity responsible for maintenance of a public street, highway, or railroad right-of-way, within or partially within the contaminated area, for contamination exceeding a groundwater Enforcement Standard (ES) and/or soil exceeding a Residual Contaminant Level (RCL) or a Site Specific Residual Contaminant Level (SSRCL).

Number of "Governmental Unit/Right-Of-Way Owner" Letters:

State of Wisconsin
DEPARTMENT OF NATURAL RESOURCES
3911 Fish Hatchery Road
Fitchburg WI 53711-5397

Scott Walker, Governor
Cathy Stepp, Secretary
Telephone 608-266-2621
Toll Free 1-888-936-7463
TTY Access via relay - 711

March 6, 2012

Dan Higgins
Madison Gas and Electric
717 East Main Street
Madison WI 53701

Subject: Final Site Closure: East Main Street Diesel Spill, Madison, WI
02-13-551301

Dear Mr. Higgins:

On January 27, 2012, the South Central Region Closure Committee reviewed your request for closure of the case described above. The Committee reviews environmental remediation cases for compliance with state rules and statutes to maintain consistency in the closure of these cases. Based on the correspondence and data provided, it appears that your case meets the closure requirements in ch. NR 726, Wisconsin Administrative Code. The Department considers this case closed and no further investigation or remediation is required at this time.

GIS Registry

The conditions of case closure set out below in this letter require that this site be listed on the Remediation and Redevelopment Program's GIS Registry. The specific reasons are summarized below:

- Residual soil contamination exists that must be properly managed should it be excavated or removed
- Groundwater contamination is present above Chapter NR 140 enforcement standards

This letter and information that was submitted with your closure request application will be included on the GIS Registry. To review the sites on the GIS Registry web page, visit the RR Sites Map page at: http://dnr.wi.gov/org/aw/rr/gis/index.htm. If the property is listed on the GIS Registry because of remaining contamination and you intend to construct or reconstruct a well, you will need prior Department approval in accordance with s. NR 812.09(4) (w), Wis. Adm. Code. To obtain approval, Form 3300-254 needs to be completed and submitted to the DNR Drinking and Groundwater program's regional water supply specialist. This form can be obtained on-line http://dnr.wi.gov/org/water/dwg/3300254.pdf or at the web address listed above for the GIS Registry.

Residual Soil Contamination

Residual soil contamination remains on site as described in the information submitted to the Department of Natural Resources. If this soil is excavated in the future, then pursuant to ch. NR 718 or, if applicable, ch. 289, Stats., and chs. 500 to 536, the property owner at the time of excavation must sample and analyze the excavated soil to determine if residual contamination remains. If sampling confirms that contamination is present the property owner at the time of excavation will need to determine whether the material is considered solid or hazardous waste and ensure that any storage, treatment or disposal is in compliance with applicable standards and rules. In addition, all current and future owners and occupants of the property need to be aware that excavation of

the contaminated soil may pose an inhalation or other direct contact hazard and as a result special precautions may need to be taken to prevent a direct contact health threat to humans.

Residual Groundwater Contamination

Groundwater impacted by polyaromatic hydrocarbon contamination greater than enforcement standards set forth in ch. NR140, Wis. Adm. Code, is present on this contaminated property.

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. The Department appreciates your efforts to restore the environment at this site. If you have any questions regarding this closure decision or anything outlined in this letter, please contact me at 608-275-3303.

Sincerely,

Michael Schmoller
Hydrogeologist

cc: Eric Oelkers, SCS/BT2, 2830 Dairy Drive, Madison, WI 53718

1140482

Authorization No. 6623

SPECIAL WARRANTY DEED
NUMBER 71275

KNOW ALL MEN BY THESE PRESENTS, That the Grantor, CHICAGO AND NORTH WESTERN RAILWAY COMPANY, a Wisconsin corporation, for and in consideration of the sum of TEN and NO/100 DOLLARS ($10.00) and other good and valuable consideration, in hand paid, receipt whereof is hereby acknowledged, does hereby GRANT, BARGAIN, SELL and CONVEY unto MADISON GAS AND ELECTRIC COMPANY, a Wisconsin corporation, of Madison, Wisconsin, its successors and assigns forever, all the estate, title and interest of Grantor in and to the following described real estate situated in the City of Madison, County of Dane, and the State of Wisconsin, to wit:

PARCEL ONE

All that part of Block One Hundred Twenty-four (124) of the original plat of the City of Madison, Wisconsin in the South Half (S 1/2) of Section Thirteen (13), Township Seven (7) North, Range Nine (9) East, more fully described as follows:

Beginning at the Westerly corner of said Block One Hundred Twenty-four (124); thence along the Southeasterly side of Railroad Street at an assumed bearing of North Forty-five Degrees, Zero Zero Minutes (45° 00') East, Five Hundred Ninety-seven and Six-tenths (597.6) feet; thence South Forty-four Degrees, Fifty-nine Minutes (44° 59') East, along the Southwesterly side of South Blount Street, Two Hundred Four and Two-tenths (204.2) feet to a point Forty-four (44) feet Northwesterly of, as measured at right angles from, the center line of the southbound or most Southeasterly main track of two main tracks of the Chicago and North Western Railway Company, as now located and established; thence South Forty-four Degrees, Fifty-six Minutes (44° 56') West and parallel to said track, Sixty-seven and Eight-tenths (67.8) feet; thence on a curve to the left parallel to said track and having an approximate radius of One Thousand Four Hundred Twenty (1,420) feet, the long chord of said curve bears South Thirty-seven Degrees, Forty-four Minutes (37° 44') West, Four Hundred Seventy-nine and Seven-tenths (479.7) feet; thence South Forty-five Degrees, Sixteen Minutes (45° 16') West, Fifty-three and Five-tenths (53.5) feet; thence North Forty-five Degrees, Zero Five Minutes (45° 05') West, along the Northeasterly side of South Blair Street, Two Hundred Sixty-four and Seven-tenths (264.7) feet to the point of beginning.

PARCEL TWO

All that part of Block One Hundred Thirty (130) of the original plat of the City of Madison, Wisconsin in the South Half (S 1/2) of Section Thirteen (13), Township Seven (7) North, Range Nine (9) East,

more particularly described as follows: VOL 805 PAGE 288

Beginning at the Westerly corner of said Block One Hundred Thirty (130); thence along the Southeasterly side of Railroad Street at an assumed bearing of North Forty-five Degrees, Zero Zero Minutes (45° 00') East, Five Hundred Ninety-three and One-tenth (593.1) feet; thence South Forty-four Degrees, Forty-eight Minutes (44° 48') East along the Southwesterly side of South Livingston Street, Two Hundred and Six-tenths (200.6) feet to a point Forty-four (44) feet Northwesterly of, as measured at right angles from, the center line of the southbound or most Southeasterly main track of two main tracks of the Chicago and North Western Railway Company, as now located and established; thence South Forty-four Degrees, Forty-five Minutes (44° 45') West and parallel to said track, Five Hundred Ninety-two and Six-tenths (592.6) feet; thence North Forty-four Degrees, Fifty-three Minutes (44° 53') West, along the Northeasterly side of South Blount Street, Two Hundred Three and Three-tenths (203.3) feet to the point of beginning.

PARCEL THREE

All that part of Block One Hundred Forty-six (146) of the original plat of the City of Madison, Wisconsin in the South half of Section Thirteen (13), Township Seven (7) North, Range Nine (9) East, more fully described as follows:

Beginning at the Westerly corner of said Block One Hundred Forty-six (146); thence along the Southeasterly side of Railroad Street at an assumed bearing of North Forty-five Degrees, Zero Zero Minutes (45° 00') East, Five Hundred Ninety-five and Eight-tenths (595.8) feet; thence South Forty-four Degrees, Fifty-nine Minutes (44° 59') East along the Southwesterly side of South Patterson Street, One Hundred Ninety-four and Nine-tenths (194.9) feet to a point Forty-four (44) feet Northwesterly of, as measured at right angles from, the center line of the southbound or most Southeasterly main track of two main tracks of the Chicago and North Western Railway Company as now located and established; thence South Forty-four Degrees, Forty Minutes (44° 40') West and parallel to said track, Five Hundred Ninety-six and Zero-tenths (596.0) feet; thence North Forty-four Degrees, Fifty-five Minutes (44° 55') West, along the Northeasterly side of South Livingston Street, One Hundred Ninety-eight and Four-tenths (198.4) feet to the point of beginning.

Reserving, however, unto the Grantor, its successors and assigns, Spur Tracks I.C.C. No. 37, No. 403 and No. 44 of the Chicago and North Western Railway Company, as now located and established on the above described premises, together with the right to use, occupy and enjoy strips of land of sufficient width and in no case less than Ten (10) feet on each side of the center line of the said tracks for the proper maintenance and operation of said tracks until such time as said Grantor, its successors and assigns, shall permanently abandon the use of said tracks and remove the same from the premises.

TO HAVE AND TO HOLD the same, together with all the hereditaments and appurtenances thereunto belonging or in anywise appertaining, to the said

Grantee, its successors and assigns, forever. And Grantor for itself, its successors and assigns, does covenant with the Grantee, its successors and assigns that Grantor has not made, done, executed, or suffered any act or thing whatsoever whereby the above described premises hereunto to be conveyed, or any part thereof, now, or any time hereafter, shall or may be imperiled, charged or encumbered in any manner whatsoever, and the title to the above granted premises against all persons lawfully claiming the same from, through or under Grantor herein, the said Grantor will WARRANT and DEFEND.

IN WITNESS WHEREOF, the Chicago and North Western Railway Company has caused its corporate seal to be hereunto affixed and these presents to be signed by its President, and attested by its Secretary this 1st day of July, A.D. 1965.

CHICAGO AND NORTH WESTERN RAILWAY COMPANY

Signed, Sealed and Delivered in Presence of:

V. J. Luisi

J. C. Wilson

By C. J. Fitzpatrick
C. J. Fitzpatrick President

Attest T. A. Ross
T. A. Ross Secretary

Approved: L. J. Postmus
L. J. Postmus
Assistant Chief Title Officer

STATE OF ILLINOIS)
) SS
COUNTY OF COOK)

Personally came before me this 1st day of July A.D. 1965, the above named C. J. FITZPATRICK, President of the CHICAGO AND NORTH WESTERN RAILWAY COMPANY, and T. A. ROSS, Secretary of said Company, to me known to be the persons who executed the foregoing instrument for and in behalf of said Company, and acknowledged the same.

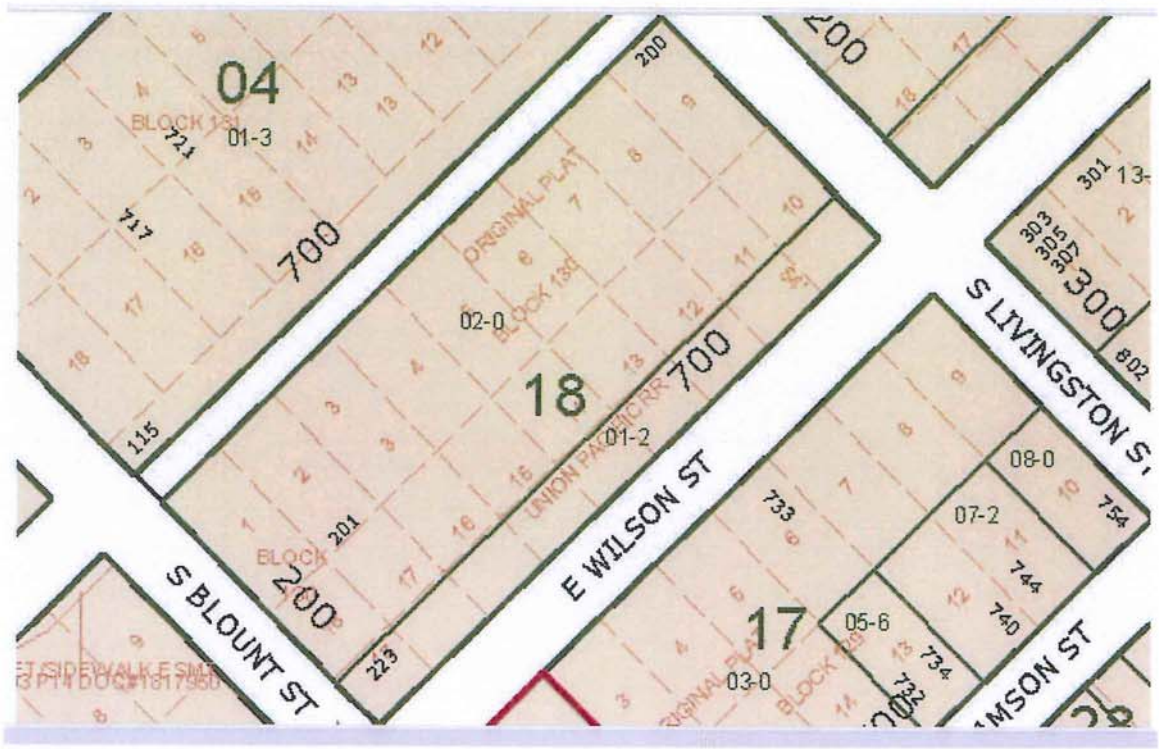
A. S. Fleck
A. S. Fleck Notary Public
in and for Cook County, Illinois

My Commission Expires: Aug. 23, 1966

RECORDED

AUG 26 1965

At 4 15 o'clock P. M



Block 130
Portion of Recorded Plat Map
City of Madison Original Plat
(Madison Engineering Division mapping web site)

Madison Gas and Electric Company
P.O. Box 1231
Madison, WI 53701-1231
608-252-7000

your community energy company

December 10, 2009

Wisconsin Department of Natural Resources
101 South Webster Street
Madison Wisconsin 53703

Subject: Statement That All Legal Descriptions of Properties Within the Contaminated Site Boundaries Have Been Included

To Whom It May Concern:

The following information is in regard to Madison Gas and Electric Company (MGE) Blount Station AST Fuel Spill, 717 East Main Street, Madison, Wisconsin 53701, BRRTS No. 02-13-551301, BT_2 Project No. 3564. To the best of my knowledge, I believe with the submittal of the enclosed information, the legal description for each property within, or partially within, the contaminated site boundary has been included with the closure request.

The contaminated site boundary is included within current Tax Parcel No. 251/0709-134-1802-0. MGE acquired the property from the Chicago and North Western Railway Company in 1965, as described in the enclosed special warranty deed.

The tax parcel on which the residual contamination is located is described as "Parcel Two" in the enclosed special warranty deed. The deed describes several MGE properties. "Parcel Two" includes all of Block 130 of the original plat of the City of Madison, except the portion occupied by the railroad right-of-way. The other parcels referenced in the deed, "Parcel One" and "Parcel Three," are not affected by residual contamination associated with the fuel oil spill.

The enclosed deed information includes the following documents:

- Warranty Deed No. 71275, Document No. 1140482 (Volume 805, pages 287 through 289), dated July 1, 1965, transferring ownership of the property from Chicago and North Western Railway Company to Madison Gas and Electric Company.

- A portion of the City of Madison Plat showing Block 130, bounded by Livingston Street, the Union Pacific Railroad right-of way, Blount Street, and an abandoned portion of Railroad Street.

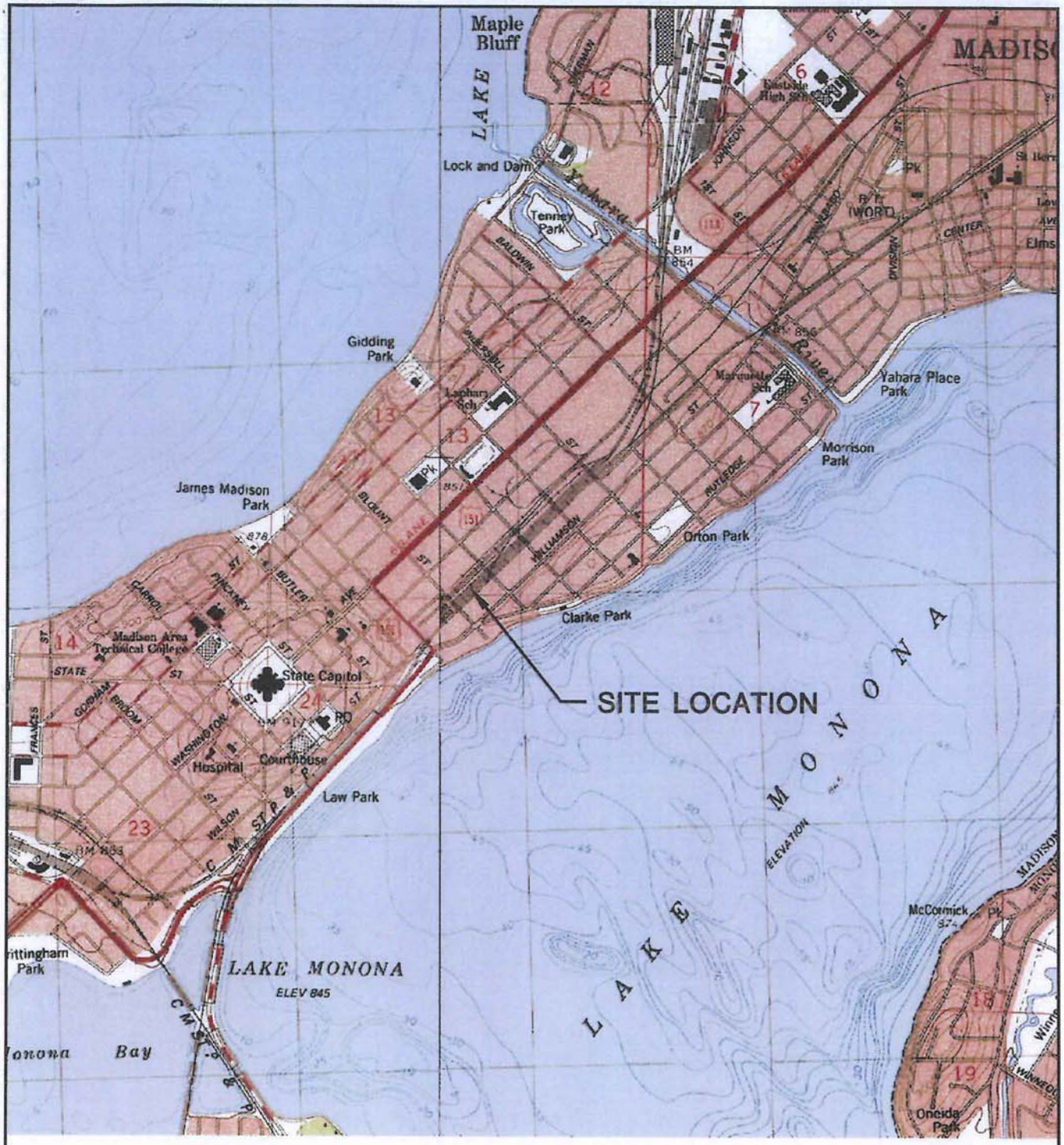
If you need additional information, please contact MGE's environmental consultant, Mr. Eric Oelkers, of BT^2, Inc., at (608) 216-7341.

Sincerely,

Michael J. Halcarz
Supervisor - Rights-of-Way

hjl/Enclosures

cc: Eric Oelkers, BT^2, Inc.



N

MADISON EAST QUADRANGLE
WISCONSIN–DANE CO.
7.5 MINUTE SERIES (TOPOGRAPHIC)
SE/4 MADISON 15' QUADRANGLE
1983
SCALE: 1" = 2,000'

CLIENT: mge Madison Gas and Electric	SITE: MGE BLOUNT STREET GENERATING STATION 717 EAST MAIN STREET MADISON, WISCONSIN	SITE LOCATION MAP	
PROJECT NO. 3564	DRAWN BY: KP	ENGINEER: BT² inc.	2830 DAIRY DRIVE MADISON, WI 53718–6751 PHONE: (608) 224–2830 FAX: (608) 224–2839
DRAWN: 06/05/08	CHECKED BY: EO		FIGURE
REVISED: 06/05/08	APPROVED BY: E.O.		A–2

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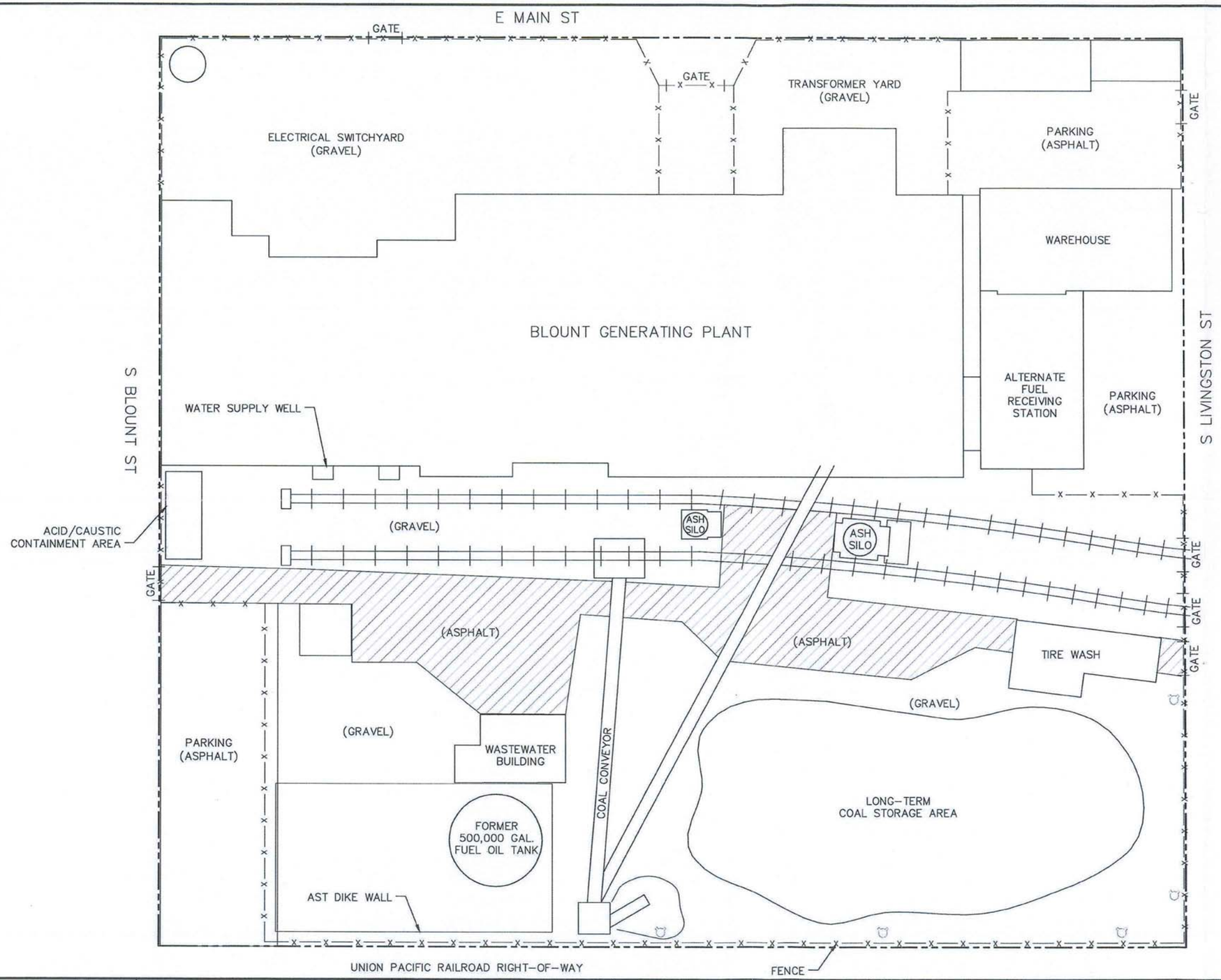

LEGEND

- APPROXIMATE PROPERTY LINE
- FENCE
- RAILROAD TRACKS

NOTES:

1. MAP BASED ON MGE DRAWING BGS-CL-GPLT-0093.

60 0 60

SCALE: 1" = 60'

PROJECT NO.	3564	DRAWN BY:	KP	ENGINEER	BT² inc. 2830 DAIRY DRIVE MADISON, WI 53718-6751 PHONE: (608) 224-2830 FAX: (608) 224-2839	CLIENT	MGE Madison Gas and Electric
DRAWN:	06/05/08	CHECKED BY:	EO			SITE	MGE BLOUNT STREET GENERATING STATION 717 EAST MAIN STREET MADISON, WISCONSIN
REVISED:	12/08/09	APPROVED BY:	E.O.				SITE PLAN

FIGURE A-3A

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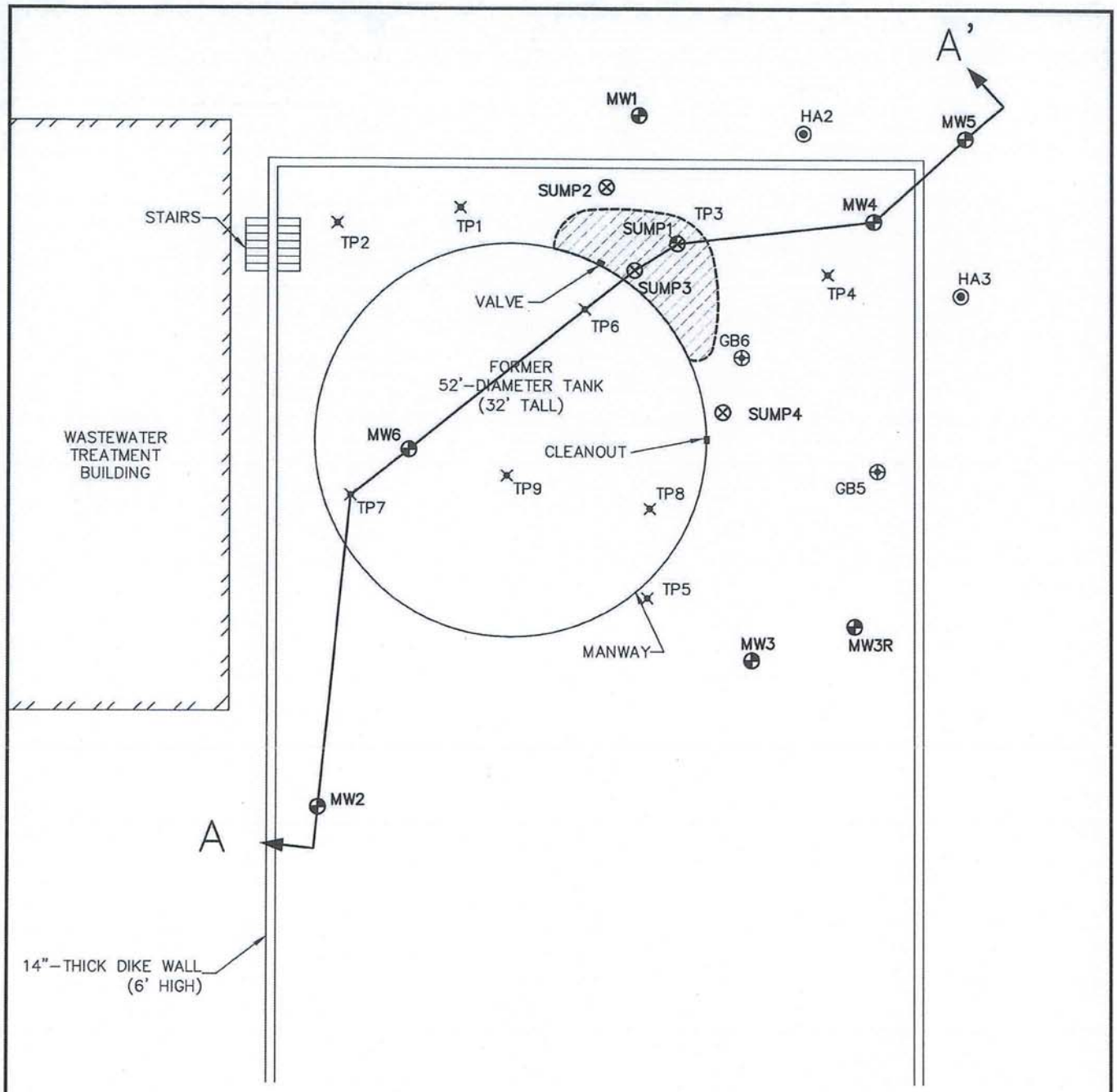

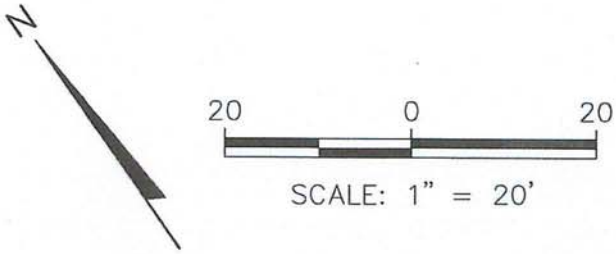

LEGEND

- SPILL AREA
- MONITORING WELL
- TEST PIT
- HAND AUGER BORING
- PRODUCT RECOVERY SUMP

CLIENT: MGE Madison Gas and Electric	SITE: MGE BLOUNT STREET GENERATING STATION 717 EAST MAIN STREET MADISON, WISCONSIN	SPILL AREA SITE PLAN	
PROJECT NO. 3564	DRAWN BY: KP	ENGINEER: BT² inc.	2830 DAIRY DRIVE MADISON, WI 53718-6751 PHONE: (608) 224-2830 FAX: (608) 224-2839
DRAWN: 06/05/08	CHECKED BY: EO		FIGURE
REVISED: 12/08/09	APPROVED BY: E.O.		A-3B

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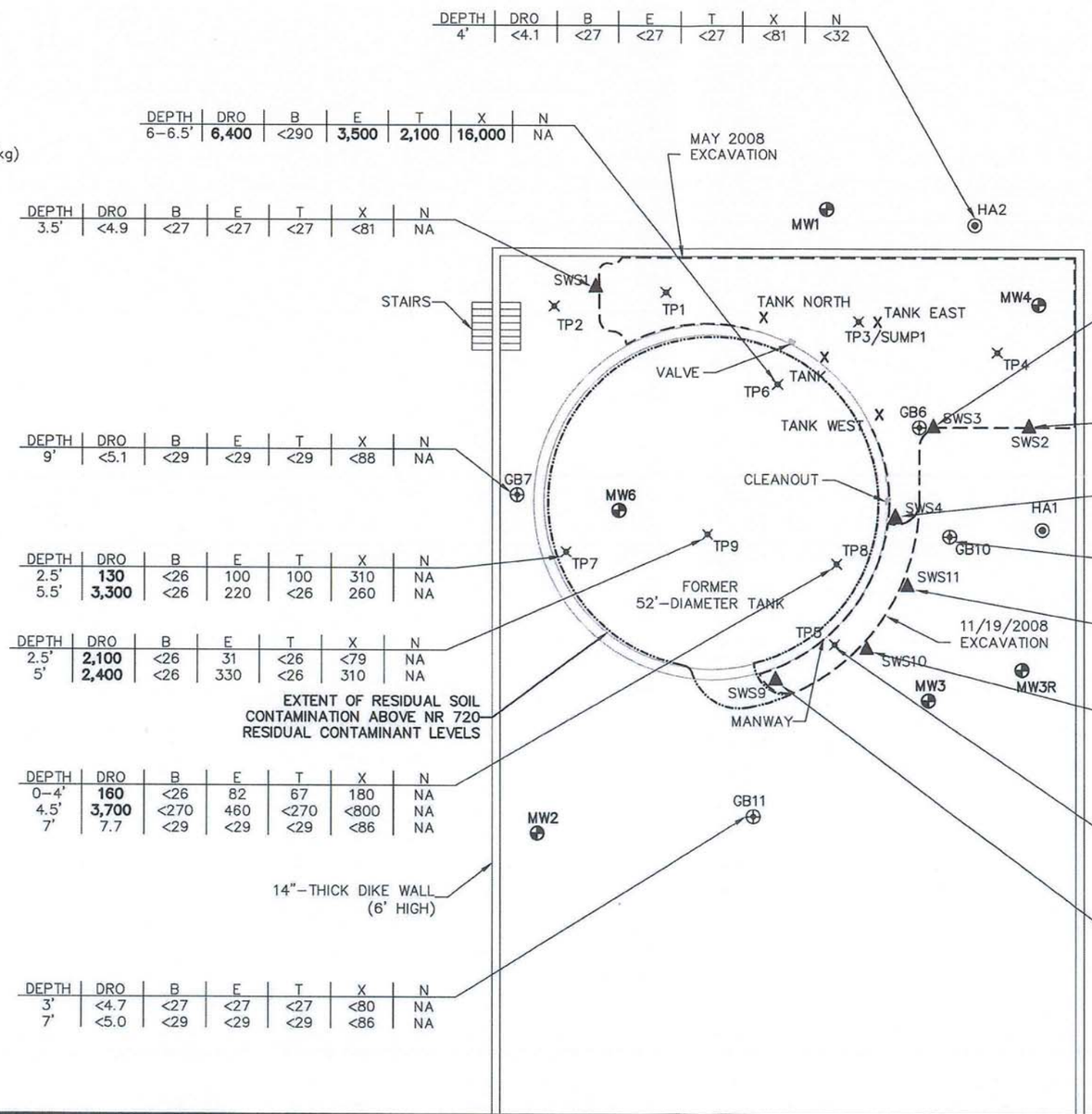
LEGEND

- EXTENT OF RESIDUAL SOIL CONTAMINATION
- EXCAVATION AREA
- MONITORING WELL
- TEST PIT
- HAND AUGER BORING
- SPLIT SPOON SAMPLING
- X INITIAL RESPONSE SAMPLE
- ▲ EXCAVATION SOIL SAMPLE
- DRO DIESEL RANGE ORGANICS (mg/kg)
- B BENZENE (ug/kg)
- E ETHYLBENZENE (ug/kg)
- T TOLUENE (ug/kg)
- X XYLENES (ug/kg)
- N NAPHTHALENE (ug/kg)

NOTES:

1. BOLD RESULTS EXCEED NR 720 RESIDUAL CONTAMINANT LEVELS.



DEPTH	DRO	B	E	T	X	N
4'	<4.1	<27	<27	<27	<81	<32

DEPTH	DRO	B	E	T	X	N
6-6.5'	**6,400**	<290	**3,500**	**2,100**	**16,000**	NA

DEPTH	DRO	B	E	T	X	N
3.5'	<4.9	<27	<27	<27	<81	NA

DEPTH	DRO	B	E	T	X	N
9'	<5.1	<29	<29	<29	<88	NA

DEPTH	DRO	B	E	T	X	N
2.5'	**130**	<26	100	100	310	NA
5.5'	**3,300**	<26	220	<26	260	NA

DEPTH	DRO	B	E	T	X	N
2.5'	**2,100**	<26	31	<26	<79	NA
5'	**2,400**	<26	330	<26	310	NA

EXTENT OF RESIDUAL SOIL CONTAMINATION ABOVE NR 720 RESIDUAL CONTAMINANT LEVELS

DEPTH	DRO	B	E	T	X	N
0-4'	**160**	<26	82	67	180	NA
4.5'	**3,700**	<270	460	<270	<800	NA
7'	7.7	<29	<29	<29	<86	NA

DEPTH	DRO	B	E	T	X	N
3'	<4.7	<27	<27	<27	<80	NA
7'	<5.0	<29	<29	<29	<86	NA

DEPTH	DRO	B	E	T	X	N
4.5'	<4.8	<28	<28	<28	<84	<34

DEPTH	DRO	B	E	T	X	N
5'	<5.6	<31	<31	<31	<92	NA

DEPTH	DRO	B	E	T	X	N
4.5'	<4.8	<27	46	61	140	57

DEPTH	DRO	B	E	T	X	N
4.5'	<4.9	<29	<29	<29	<86	<34

(EXCAVATED IN SECOND MOBILIZATION)

DEPTH	DRO	B	E	T	X	N
2.6'	**6,100**	**370**	**11,000**	**3,800**	**20,000**	**9,200**

DEPTH	DRO	B	E	T	X	N
3'	<4.7	<27	<27	<27	<80	NA

DEPTH	DRO	B	E	T	X	N
3'	18	<27	<27	<27	<82	NA

DEPTH	DRO	B	E	T	X	N
3'	<4.9	<28	<28	<28	<83	NA

(EXCAVATED IN SECOND MOBILIZATION)

DEPTH	DRO	B	E	T	X	N	
5'	**18,000**	**760**	**17,000**	**5,800**	**31,000**	**18,000**	(BOTTOM)
3'	<5.1	<29	<29	<29	<86	<34	(SOUTH SIDE)
3'	**18,000**	**610**	**17,000**	**5,900**	**32,000**	**24,000**	(WEST SIDE)

DEPTH	DRO	B	E	T	X	N
3'	<4.6	**50**	26	130	120	NA

PROJECT NO.	3564	DRAWN BY:	KP
DRAWN:	06/05/08	CHECKED BY:	EO
REVISED:	12/08/09	APPROVED BY:	EJS

ENGINEER: BT² inc.
2830 DAIRY DRIVE
MADISON, WI 53718-6751
PHONE: (608) 224-2830
FAX: (608) 224-2839

CLIENT: MGE Madison Gas and Electric

SITE: MGE BLOUNT STREET GENERATING STATION
717 EAST MAIN STREET
MADISON, WISCONSIN

POST-EXCAVATION SOIL SAMPLE RESULTS

FIGURE D-1

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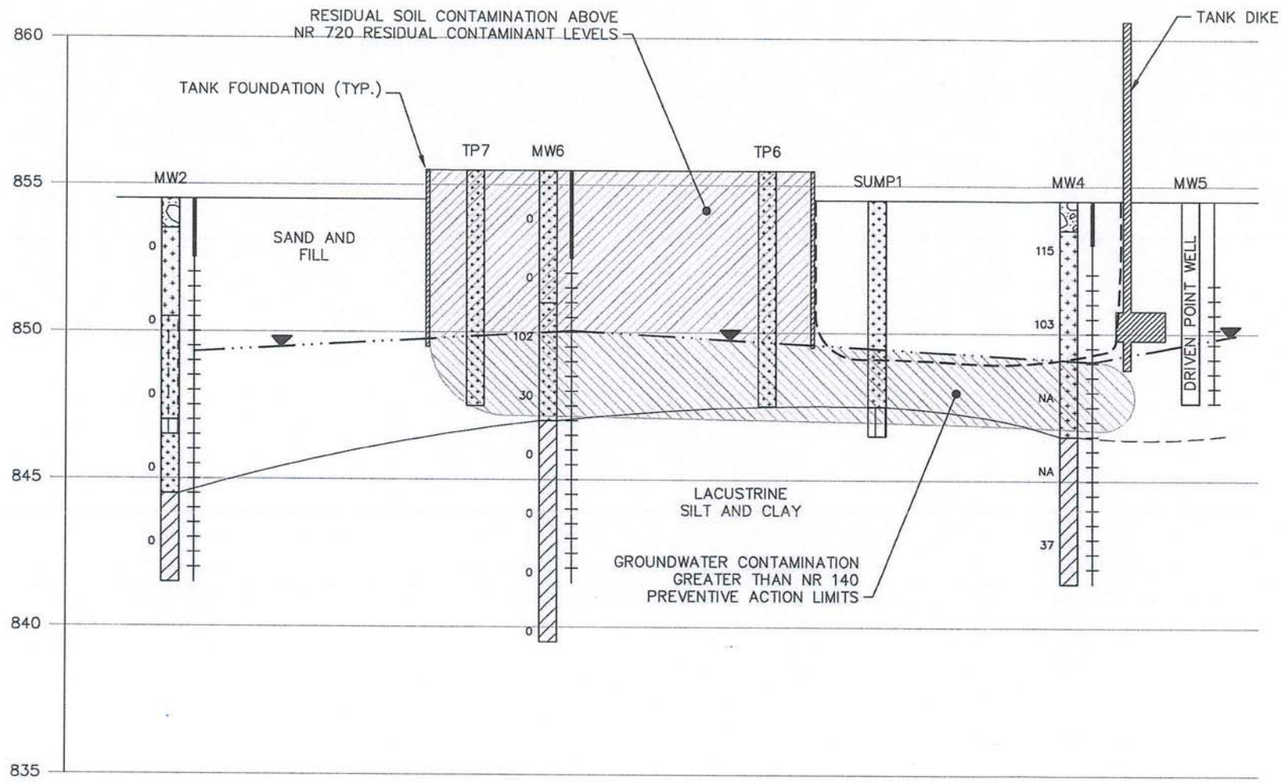
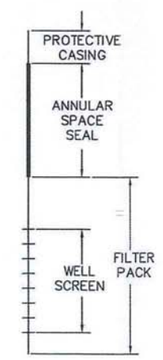


LEGEND

- SAND, WELL GRADED, LITTLE OR NO FINES (SW)
- SAND, POORLY GRADED, LITTLE OR NO FINES (SP)
- SILT (ML)
- LEAN CLAY (CL)
- GRAVEL, WELL GRADED, LITTLE OR NO FINES (GW)
- SAND, POORLY GRADED WITH SILT (SP-SM)
- LIMITS OF EXCAVATION
- WATER TABLE ON 03/03/09
- 25 FLAME IONIZATION DETECTOR READING



WELL DETAIL

0 20

HORIZONTAL SCALE: 1" = 20'
VERTICAL SCALE: 1" = 5'
VERTICAL EXAGGERATION = 4X

PROJECT NO.	3564	DRAWN BY:	KP	ENGINEER	BT² inc.	2830 DAIRY DRIVE MADISON, WI 53718-6751 PHONE: (608) 224-2830 FAX: (608) 224-2839	CLIENT: MGE Madison Gas and Electric	SITE: MGE BLOUNT STREET GENERATING STATION 717 EAST MAIN STREET MADISON, WISCONSIN	POST-REMEDIATION GEOLOGIC CROSS SECTION	FIGURE D-3
DRAWN:	11/13/09	CHECKED BY:	EO							
REVISED:	12/08/09	APPROVED BY:	E.O. (pro)							

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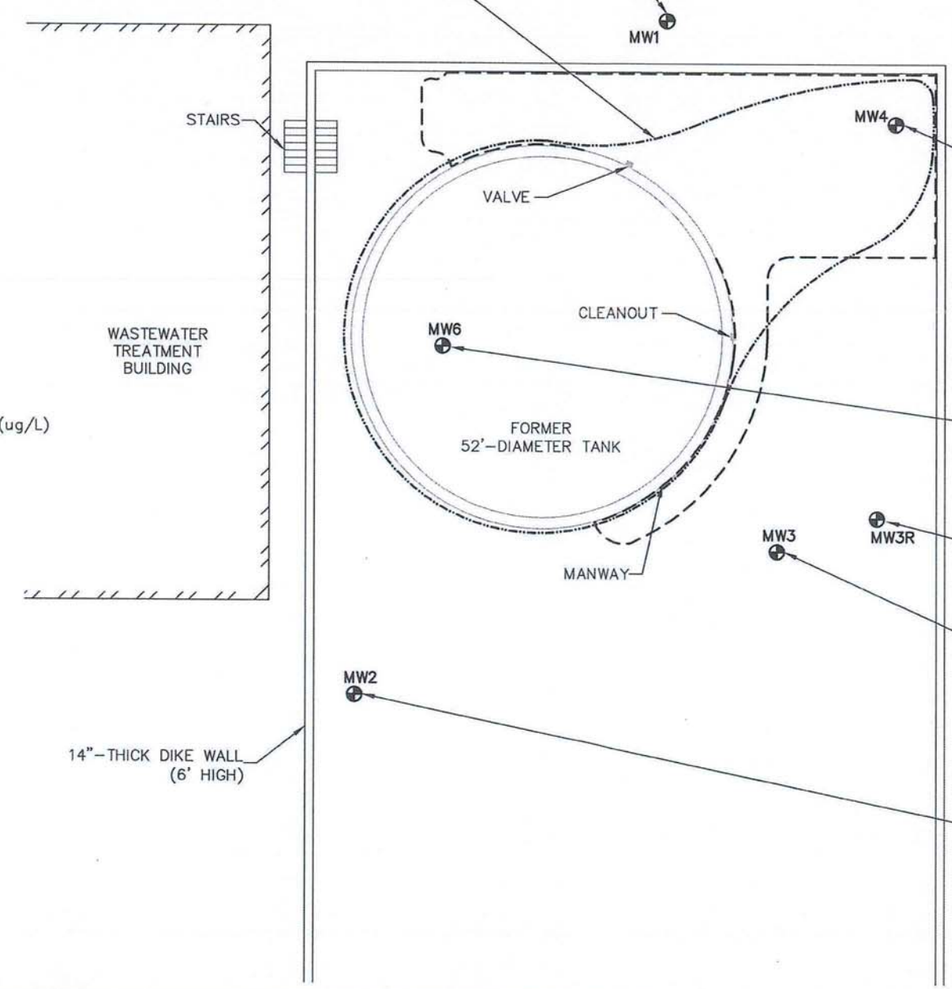

DATE	B	E	T	X	TMB	MTBE	N
05/01/08	1.4	<0.22	1.3	0.86	<0.44	5.6	<0.44
07/14/08	1.7	<0.22	<0.25	<0.39	<0.44	7.4	<0.40
03/03/09	<0.25	<0.22	<0.25	<0.39	<0.44	<0.23	<0.50
07/28/09	<0.25	<0.22	<0.25	<0.39	<0.44	4.0	<0.50

DATE	B	E	T	X	TMB	MTBE	N
07/14/08	<0.25	<0.22	<0.25	<0.39	<0.44	1.8	<0.40
03/03/09	<0.25	<0.22	<0.25	<0.39	<0.44	<0.23	<0.50
07/28/09	<0.25	<0.22	<0.25	<0.39	<0.44	<0.23	<0.50

DATE	B	E	T	X	TMB	MTBE	N
07/14/08	**18**	<1.1	1.7	120	96	12	**250**
03/03/09	1.4	0.66	0.54	10	59	1.4	69
07/28/09	2.3	1.7	<0.25	4.8	33	0.8	59

DATE	B	E	T	X	TMB	MTBE	N
03/03/09	0.68	26	<0.50	11	78	<0.46	81
07/28/09	0.59	1.1	<0.25	0.85	14.9	<0.23	7.8

DATE	B	E	T	X	TMB	MTBE	N
03/03/09	<0.25	<0.22	0.46	<0.39	<0.44	1.5	<0.50
07/28/09	<0.25	<0.22	<0.25	<0.39	<0.44	<0.23	<0.50

DATE	B	E	T	X	TMB	MTBE	N
05/01/08	<0.25	1.5	<0.11	<0.39	0.30	<0.23	<0.43
07/14/08	<0.25	<0.22	<0.25	<0.39	<0.44	0.63	<0.41

DATE	B	E	T	X	TMB	MTBE	N
05/01/08	<0.25	<0.22	<0.11	<0.39	<0.44	<0.23	<0.41
07/14/08	<0.25	<0.22	0.27	<0.39	<0.44	<0.23	<0.41
03/03/09	<0.25	<0.22	<0.25	<0.39	<0.44	<0.23	<0.50
07/28/09	<0.25	<0.22	<0.25	<0.39	<0.44	<0.23	<0.50

LEGEND

- - - - -	EXCAVATION AREA
⊕	MONITORING WELL
B	BENZENE (ug/L)
E	ETHYLBENZENE (ug/L)
T	TOLUENE (ug/L)
X	XYLENES (ug/L)
TMB	1,2,4- AND 1,3,5-TRIMETHYLBENZENES (ug/L)
MTBE	METHYL-TERT-BUTYL ETHER (ug/L)
N	NAPHTHALENE (ug/L)

NOTES:

1. BOLD RESULTS EXCEED NR 140 ENFORCEMENT STANDARDS.

20 0 20

SCALE: 1" = 20'

PROJECT NO.	3564	DRAWN BY:	KP
DRAWN:	06/05/08	CHECKED BY:	EO
REVISED:	12/08/09	APPROVED BY:	E.J.

ENGINEER: BT² inc. 2830 DAIRY DRIVE MADISON, WI 53718-6751 PHONE: (608) 224-2830 FAX: (608) 224-2839

CLIENT: mge Madison Gas and Electric

SITE: MGE BLOUNT STREET GENERATING STATION 717 EAST MAIN STREET MADISON, WISCONSIN

GROUNDWATER ANALYTICAL RESULTS SUMMARY

FIGURE E-2

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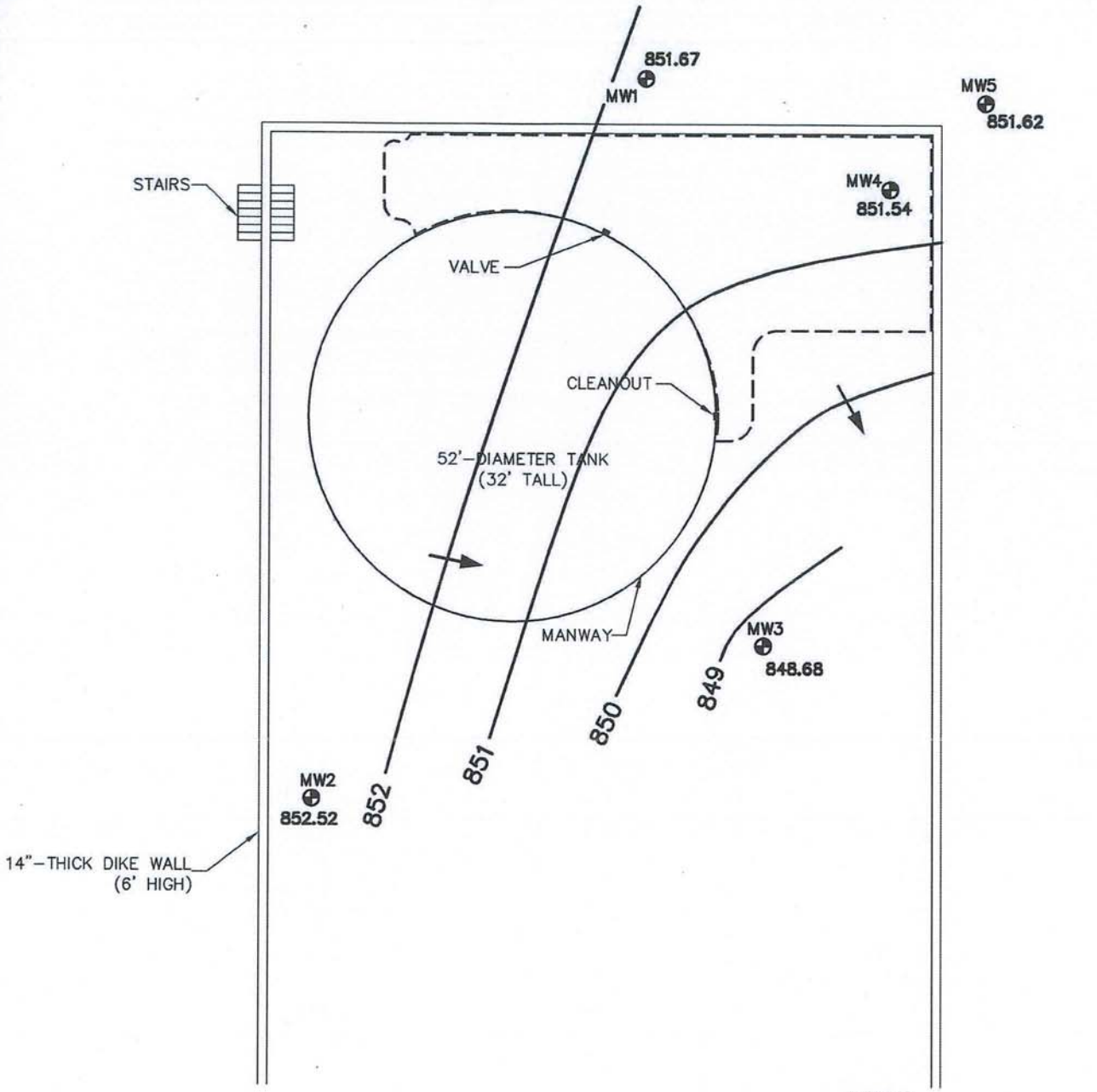

CLIENT: MGE Madison Gas and Electric	SITE: MGE BLOUNT STREET GENERATING STATION 717 EAST MAIN STREET MADISON, WISCONSIN	WATER TABLE ELEVATION MAP FOR 07/14/08	
PROJECT NO. 3564	DRAWN BY: KP, DG	ENGINEER: BT² inc.	2830 DAIRY DRIVE MADISON, WI 53718-6751 PHONE: (608) 224-2830 FAX: (608) 224-2839
DRAWN: 06/05/08	CHECKED BY: EO		FIGURE
REVISED: 12/08/09	APPROVED BY:		E-3

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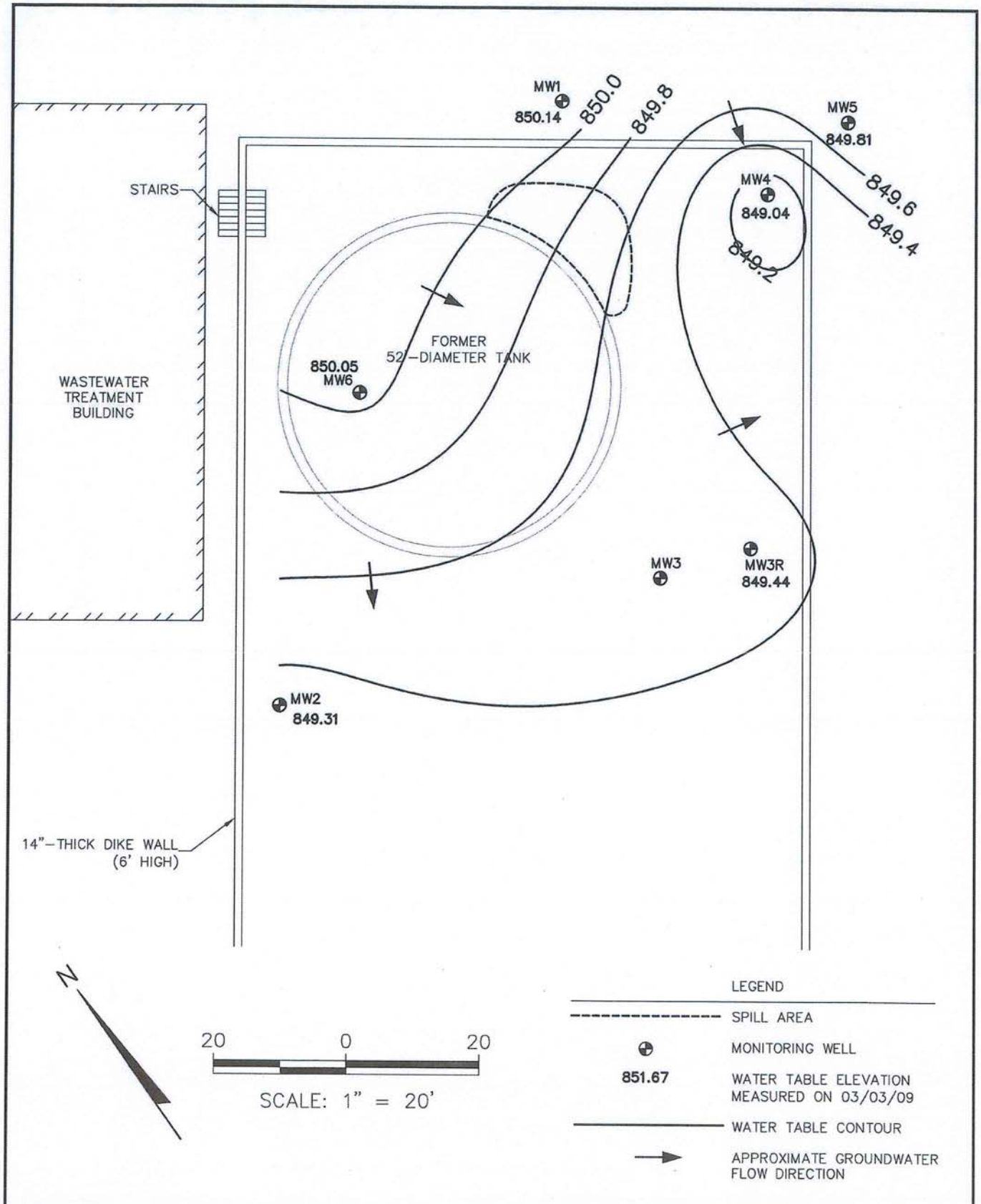

CLIENT: MGE Madison Gas and Electric	SITE: MGE BLOUNT STREET GENERATING STATION 717 EAST MAIN STREET MADISON, WISCONSIN	WATER TABLE ELEVATION MAP FOR MARCH 3, 2009	
PROJECT NO. 3564	DRAWN BY: KP	ENGINEER: BT² inc.	2830 DAIRY DRIVE MADISON, WI 53718-6751 PHONE: (608) 224-2830 FAX: (608) 224-2839
DRAWN: 11/10/09	CHECKED BY: EO		FIGURE
REVISED: 11/13/09	APPROVED BY:		E-4

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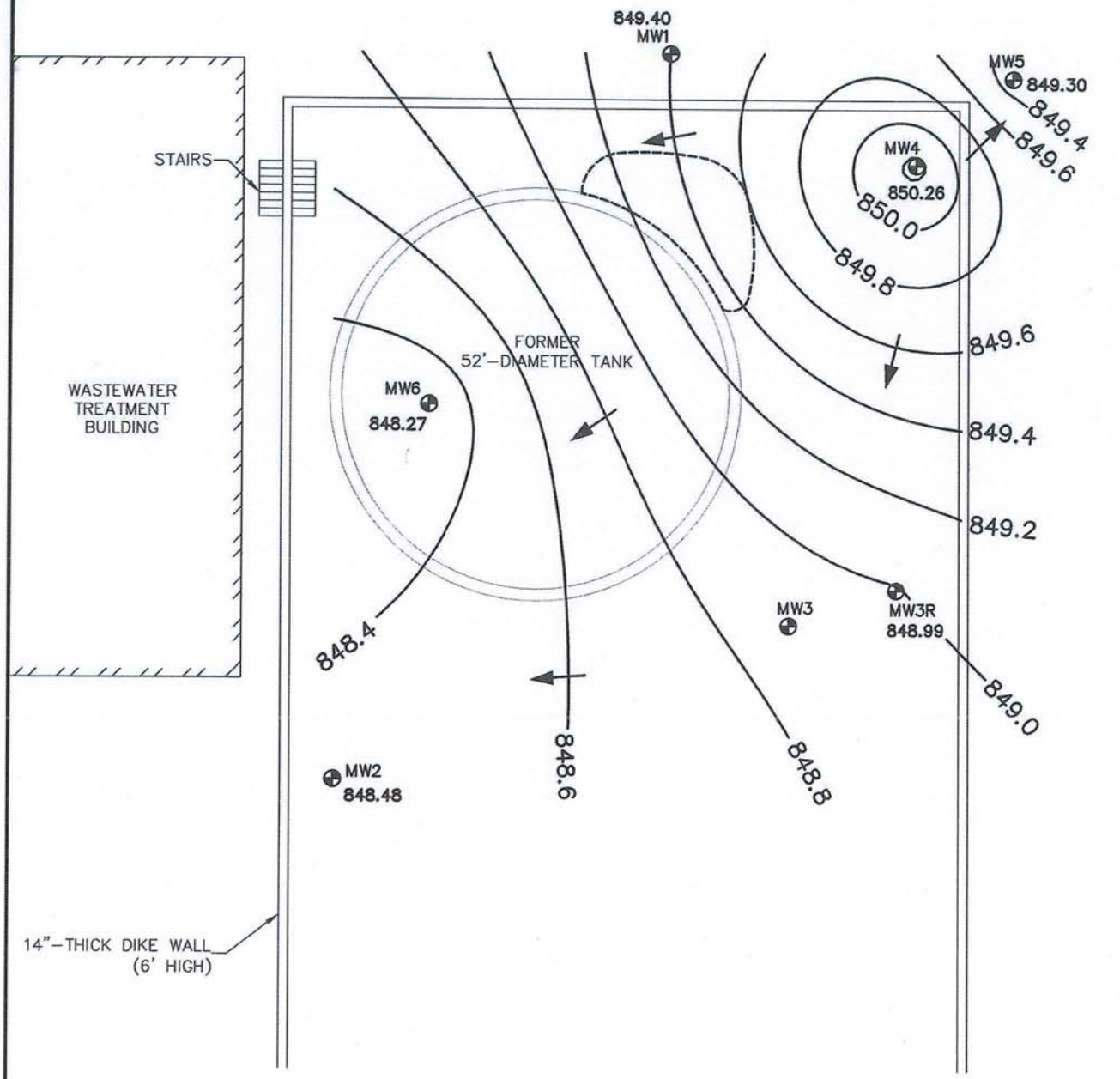

CLIENT: MGE Madison Gas and Electric	SITE: MGE BLOUNT STREET GENERATING STATION 717 EAST MAIN STREET MADISON, WISCONSIN	WATER TABLE ELEVATION MAP FOR JULY 28, 2009	
PROJECT NO. 3564	DRAWN BY: KP	ENGINEER: BT² inc.	2830 DAIRY DRIVE MADISON, WI 53718-6751 PHONE: (608) 224-2830 FAX: (608) 224-2839
DRAWN: 11/10/09	CHECKED BY: EO		FIGURE
REVISED: 11/13/09	APPROVED BY: E.O.		E-5

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Table H-1A
Post Remediation Soil Analytical Results Summary - DRO and PVOCs
MGE Blount Spill Investigation / BT^2 Project #3564
(Results are in µg/kg, except where noted otherwise)

Sample	Date	Depth (feet)	PID (ppm)	Lab Notes	DRO (mg/kg)	Benzene	Ethylbenzene	Toluene	Xylenes	1,2,4-TMB	1,3,5-TMB	MTBE
UN-EXCAVATED SOIL - SPILL AREA												
TP2	4/2/2008	2	--	--	<4.8	NA	NA	NA	NA	NA	NA	NA
	4/2/2008	3.3	--	--	<5.3	NA	NA	NA	NA	NA	NA	NA
MW1 (GB1-S2)	4/16/2008	3.5-5.5	0	--	<5.1	<30	<30	<30	<90	<30	<30	<30
MW2 (GB2-S2)	4/16/2008	3.5-5.5	0	--	<4.8	<28	<28	43	<84	<28	<28	<28
MW3 (GB3-S1)	4/16/2008	1-3	0	--	14	<36 RL3	69	<29	130	66	34	<29
HA-1 (GB5-2.0)	4/16/2008	2	0	--	<4.7	NA	NA	NA	NA	NA	NA	NA
(GB5-5.0)	4/16/2008	5	0	--	<5.1	NA	NA	NA	NA	NA	NA	NA
B6 (GB6-S2)	4/16/2008	3.5-5.5	5	--	<6.0	<32	<32	<32	<96	<32	<32	<32
MW5	5/28/2008	4.5	--	--	<4.8	<28	<28	<28	<84	<28	<28	<28
HA-2	5/28/2008	4	--	--	<4.1	<27	<27	<27	<81	<27	<27	<27
HA-3	5/28/2008	4.5	--	--	<4.8	<27	46	61	140	62	<27	<27
SWS-1	5/28/2008	3.5	3	--	<4.9	<27	<27	<27	<81	<27	<27	<27
SWS-2	5/29/2008	4.5	2	--	<4.9	<29	<29	<29	<86	<29	<29	<29
SWS-3	5/29/2008	5	5	--	<5.6	<31	<31	<31	<92	<31	<31	<31
SWS-9	11/19/2008	3	1.7	--	<4.6	**50**	26	130	120	36	<26	<26
SWS-10	11/19/2008	3	1.5	--	<4.9	<28	<28	<28	<83	<28	<28	<28
SWS-11	11/19/2008	3	11	--	18	<27	<27	<27	<82	<27	<27	<27
GB7-S5	12/18/2008	9	0	--	<5.1	<29	<29	<29	<88	<29	<29	<29
GB10-S2	12/18/2008	3	0	--	<4.7	<27	<27	<27	<80	<27	<27	<27
GB11-S2	12/18/2008	3	0	--	<4.7	<27	<27	<27	<80	<27	<27	<27
GB11-S4	12/18/2008	1	0	--	<5.0	<29	<29	<29	<86	<29	<29	<29

Table H-1A
Post Remediation Soil Analytical Results Summary - DRO and PVOCs
MGE Blount Spill Investigation / BT^2 Project #3564
(Results are in µg/kg, except where noted otherwise)

Sample	Date	Depth (feet)	PID (ppm)	Lab Notes	DRO (mg/kg)	Benzene	Ethylbenzene	Toluene	Xylenes	1,2,4-TMB	1,3,5-TMB	MTBE
RESIDUAL CONTAMINATION BELOW FORMER AST												
TP6	11/19/2008	6-6.5	152	(1)	**6,400**	<290	**3,500**	**2,100**	**16,000**	32,000	11,000	<290
TP7	11/19/2008	2.5	0.5	--	**130**	<26	100	100	310	150	50	<26
	11/19/2008	5.5	106	--	**3,300**	<26	220	<26	260	3,700	2,600	<26
TP8	11/19/2008	0-4	7.8	--	**160**	<26	82	67	180	180	48	<26
	11/19/2008	4.5	143	--	**3,700**	<270	460	<270	<800	5,600	4,000	<270
	11/19/2008	7	11	--	7.7	<29	<29	<29	<86	<29	<29	<29
TP9	11/19/2008	2.5	28	---	**2,100**	<26	31	<26	<79	360	50	<26
	11/19/2008	5	139	--	**2,400**	<26	330	<26	310	2,000	2,200	<26
MeOH Blank	5/30/2008	--	--	--	NA	<25	<25	<25	<75	<25	<25	<25
	11/19/2008	--	--	--	NA	<25	<25	<25	<75	<25	<25	<25
NR 720 Residual Contaminant Level (RCL)					100	5.5	2,900	1,500	4,100	NE	NE	NE
NR 746 Table 1					NE	8,500	4,600	38,000	42,000	83,000	11,000	NE
NR 746 Table 2					NE	1,100	NE	NE	NE	NE	NE	NE

ABBREVIATIONS:

µg/kg = micrograms per kilogram or parts per billion (ppb)
DRO = Diesel Range Organics
TMB = Trimethylbenzene
NE = Not Established

mg/kg - milligrams per kilogram or parts per million (ppm)
PVOCs = Petroleum Volatile Organic Compounds
MTBE = Methyl-tert-butyl ether
-- = Not Applicable

ppm = PID measured in ppm as isobutylene
PID = Photo-Ionization Detector
NA = Not Analyzed

Table H-1A
Post-Remediation Soil Analytical Results Summary - DRO and PVOCs
MGE Blount Spill Investigation / BT^2 Project #3564

NOTES:
Bold+underlined values exceed NR 720 RCLs.
NR 720 RCL - Wisconsin Administrative Code (WAC), Chapter NR 720 Residual Contaminant Level.
NR 746 Table 1 - WAC, Chapter NR 746.06(2)(b) Table 1 - Indicators of Residual Petroleum Product in Soil Pores.
NR 746 Table 2 - WAC, Chapter NR 746.06(2)(b) Table 2 - Protection of Human Health from Direct Contact with Contaminated Soil.
E = Sampled soil has been excavated.

LABORATORY NOTES/QUALIFIERS:
(1) *Surr:4-Bromofluorobenzene (80-200%)* = Due to sample matrix effects, the surrogate recovery was outside the acceptance limits.
RL3 = Reporting limit raised due to high concentrations of non-target analytes.

Created by:	LMH	Date:	5/5/2008
Last revision by:	TLR	Date:	10/26/2009
Checked by:	EO	Date:	12/2/2009

I:\3564\Tables-General\[Post Remed Soil_PVOCs.xls]Notes-Lab Notes

Table H-1B
Post Remediation Soil Analytical Results Summary - PAHs
MGE Blount Spill Investigation / BT^2 Project #3564
(Results are in µg/kg, except where noted otherwise)

Sample	Date	Depth (feet)	Lab Notes	DRO (mg/kg)	Acenaph-thene	Acenaph-thylene	Anthracene	Benzo(a) anthracene	Benzo(b) fluoran-thene	Benzo(k) fluoran-thene	Benzo(a) pyrene	Benzo(ghi) perylene	Chrysene	Dibenzo (a,h) anthracene	Fluoran-thene	Fluorene	Indeno(1,2,3-cd) pyrene	1-Methyl-naphthalene	2-Methyl-naphthalene	Naphthalene	Phenan-threne	Pyrene
UN-EXCAVATED SOIL - SPILL AREA																						
TP2	4/2/2008	2	--	<4.8	<52	<88	<5.2	<5.2	<5.2	<5.2	<5.2	<5.2	<5.2	<7.8	<10	<10	<5.2	<31	<26	<31	<5.2	<5.2
	4/2/2008	3.3	--	<5.3	<58	<99	<5.8	<5.8	<5.8	<5.8	<5.8	<5.8	<5.8	<8.7	<12	<12	<5.8	<35	<29	<35	<5.8	<5.8
MW2 (GB2-S2)	4/16/2008	3.5-5.5	--	<4.8	<56	<96	<5.6	<5.6	<5.6	<5.6	<5.6	<5.6	<5.6	<8.4	<11	<11	<5.6	<34	<28	<34	<5.6	<5.6
MW3 (GB3-S1)	4/16/2008	1-3	--	14	<59	<100	<5.9	16	13	11	*17*	16	12	<8.8	38	<12	13	<35	<29	<35	22	14
HA1 (GB5-2.0)	4/16/2008	2	--	<4.7	<54	<93	<5.4	<5.4	<5.4	<5.4	<5.4	<5.4	<5.4	<8.2	<11	<11	<5.4	<33	<27	<33	<5.4	<5.4
HA1 (GB5-5.0)	4/16/2008	5	--	<5.1	<61	<100	<6.1	<6.1	<6.1	<6.1	<6.1	<6.1	<6.1	<9.1	<12	<12	<6.1	<36	<30	<36	<6.1	<6.1
B6 (GB6-S2)	4/16/2008	3.5-5.5	--	<6.0	<64	<110	<6.4	<6.4	<6.4	<6.4	<6.4	<6.4	<6.4	<9.6	<13	<13	<6.4	<38	<32	<38	<6.4	<6.4
MW5	5/28/2008	4.5	--	<4.8	<56	<95	<5.6	<5.6	<5.6	<5.6	<5.6	<5.6	<5.6	<8.4	<11	<11	<5.6	<34	<28	<34	<5.6	<5.6
HA2	5/28/2008	4	--	<4.1	<54	<92	<5.4	5.6	<5.4	<5.4	<5.4	<5.4	<5.4	<8.1	21	<11	<5.4	<32	<27	<32	9.0	<5.4
HA3	5/28/2008	4.5	--	<4.8	<55	<93	8.8	21	<5.5	<5.5	<5.5	<5.5	11	<8.2	140	<11	<5.5	50	150	57	56	8.1
SWS-2	5/29/2008	--	--	<4.9	<57	<97	<5.7	<5.7	<5.7	<5.7	<5.7	<5.7	<5.7	<8.6	<11	<11	<5.7	<34	<29	<34	<5.7	<5.7
SWS9	11/19/2008	3	--	<4.6	<53	<90	29	*170*	*110*	72	*140*	87	120	*14*	310	<11	*96*	<32	<26	<32	110	290
SWS10	11/19/2008	3	--	<4.9	<56	<95	<5.6	<5.6	<5.6	<5.6	<5.6	<5.6	<5.6	<8.3	<11	<11	<5.6	<33	<28	<33	<5.6	<5.6
SWS11	11/19/2008	3	--	18	<55	<93	<5.5	<5.5	<5.5	<5.5	<5.5	<5.5	<5.5	<8.2	<11	<11	<5.5	<33	<27	<33	<5.5	<5.5
GB7-S2	12/18/2008	3	--	13	<52	<89	<5.2	<5.2	<5.2	<5.2	<5.2	<5.2	<5.2	<7.8	<10	<10	<5.2	<31	38	<31	<5.2	<5.2
GB7-S4	12/18/2008	7	--	2,100	1,400	<98	2,100	*8,500*	<5.8	<5.8	<5.8	<5.8	870	<8.6	19,000	5,300	<5.8	18,000	8,400	180	**13,000** E	14,000
GB7-S5	12/18/2008	9	--	<5.1	<59	<100	<5.9	<5.9	<5.9	<5.9	<5.9	<5.9	<5.9	<8.8	<12	<12	<5.9	<35	<29	<35	<5.9	<5.9
GB10-S2	12/18/2008	3	--	<4.7	<53	<90	<5.3	<5.3	<5.3	<5.3	<5.3	<5.3	<5.3	<8.0	<11	<11	<5.3	<32	<27	<32	<5.3	<5.3
GB11-S2	12/18/2008	3	--	<4.3	<53	<90	<5.3	<5.3	<5.3	<5.3	<5.3	<5.3	<5.3	<8.0	<11	<11	<5.3	<32	<27	<32	<5.3	<5.3
GB11-S4	12/18/2008	7	--	<5.0	<58	<98	<5.8	<5.8	<5.8	<5.8	<5.8	<5.8	<5.8	<8.6	<12	<12	<5.8	<35	<29	<35	<5.8	<5.8

Table H-1B
Post Remediation Soil Analytical Results Summary - PAHs
MGE Blount Spill Investigation / BT^2 Project #3564
(Results are in µg/kg, except where noted otherwise)

Sample	Date	Depth (feet)	Lab Notes	DRO (mg/kg)	Acenaph-thene	Acenaph-thylene	Anthracene	Benzo(a) anthracene	Benzo(b) fluoran-thene	Benzo(k) fluoran-thene	Benzo(a) pyrene	Benzo(ghi) perylene	Chrysene	Dibenzo (a,h) anthracene	Fluoran-thene	Fluorene	Indeno(1,2,3-cd) pyrene	1-Methyl-naphthalene	2-Methyl-naphthalene	Naphthalene	Phenan-threne	Pyrene
RESIDUAL CONTAMINATION BELOW FORMER AST																						
TP6	11/19/2008	6-6.5	--	6,400	670	<97	1,000	*3,300*	<5.7	<5.7	<5.7	<5.7	500	<8.6	8,000	2,800	<5.7	17,000	**29,000**	**6,400**	**5,400**	5,300
TP7	11/19/2008	2.5	--	130	<100	<180	<10	<10	<10	<10	<10	<10	<10	<16	27	<21	<10	85	170	71	29	15
TP7	11/19/2008	5.5	--	3,300	1,100	<180	1,500	*4,300*	<11	<11	<11	<11	500	<16	12,000	4,300	<11	20,000	**32,000**	**2,300**	**9,300**	8,000
TP8	11/19/2008	0-4	(1)	160	<100	<180	<10	32	<10	<10	<10	<10	<10	<16	49	<21	<10	88	180	<63	47	26
TP8	11/19/2008	4.5	--	3,700	1,300	<180	1,900	*5,900*	<11	<11	<11	<11	800	<16	14,000	5,200	<11	21,000	18,000	<64	**11,000**	10,000
TP8	11/19/2008	7	--	7.7	<57	<98	<5.7	<5.7	<5.7	<5.7	<5.7	<5.7	<5.7	<8.6	<11	<11	<5.7	35	38	<34	20	<5.7
TP9	11/19/2008	2.5	--	2,100	<110	<180	23	36	<11	<11	<11	<11	30	<16	250	38	<11	92	160	<63	100	210
TP9	11/19/2008	5	--	2,400	460	<90	740	*2,400*	<5.3	<5.3	<5.3	<5.3	290	<7.9	6,000	2,100	<5.3	9,900	15,000	**1,800**	**4,600**	4,200
Non-Industrial Direct Contact SSRCL[1]					NE	NE	NE	880	880	8,800	88	NE	88,000	88	NE	NE	880	NE	NE	NE	NE	NE
WDNR PAH Soil Generic Residual Contaminant Levels (RCLs) (Interim Guidance - April 1997)																						
Groundwater Pathway					38,000	700	3,000,000	17,000	360,000	870,000	48,000	6,800,000	37,000	38,000	500,000	100,000	680,000	23,000	20,000	400	1,800	8,700,000
Non-Industrial Direct Contact					900,000	18,000	5,000,000	88	88	880	8.8	1,800	8,800	8.8	600,000	600,000	88	1,100,000	600,000	20,000	18,000	500,000
Industrial Direct Contact					60,000,000	360,000	300,000,000	3,900	3,900	39,000	390	39,000	390,000	390	40,000,000	40,000,000	3,900	70,000,000	40,000,000	110,000	390,000	30,000,000

ABBREVIATIONS:
µg/kg = micrograms per kilogram or parts per billion (ppb) WDNR = Wisconsin Department of Natural Resources PAHs = Polynuclear Aromatic Hydrocarbons -- = Not Applicable

NOTES:
Bold+underlined values exceed generic RCL for the groundwater pathway
Italic+underlined values exceed the generic RCL for non-industrial direct contact
E = Sampled soil has been excavated
[1]Non-Industrial Direct Contact SSRCLs are calculated using an individual cancer risk of 1 x 10-6 for carcinogens with cumulative cancer risk not to exceed 1 x 10-5 per NR 720.

LABORATORY NOTES/QUALIFIERS:
(1) Surr: 2-Fluorobiphenyl (61-128%) analysis - The sample required a dilution due to the nature of the sample matrix. Because of this dilution, the surrogate spike concentration in the sample was reduced to a level where the recovery calculation does not provide useful information.

Created by: LMH Date: 5/5/2008
Last revision by: TLR Date: 10/26/2009
Checked by: EO Date: 12/2/2009

I:\3564\Tables-General\[Post Remed Soil_PAHs.xls]Soil PAHs

Table E-1A
Groundwater Analytical Results Summary - PVOCs
MGE Blount Oil Spill / BT^2 Project #3564
(Results are in µg/l)

Sample	Date	Benzene	Ethylbenzene	Toluene	Xylenes	TMBs	MTBE	Naphthalene
MW-1	5/1/2008	*1.4*	<0.22	1.3	0.86 J	<0.44	5.6	<0.44
	7/14/2008	*1.7*	<0.22	<0.25	<0.39	<0.44	7.4	<0.40
	3/3/2009	<0.25	<0.22	<0.25	<0.39	<0.44	<0.23	<0.50
	7/28/2009	<0.25 P	<0.22 P	<0.25 P	<0.39 P	<0.44 P	4.0 P	<0.50 P
MW-2	5/1/2008	<0.25	<0.22	<0.11	<0.39	<0.44	<0.23	<0.41
	7/14/2008	<0.25	<0.22	0.27 J	<0.39	<0.44	<0.23	<0.41
	3/3/2009	<0.25	<0.22	<0.25	<0.39	<0.44	<0.23	<0.50
	7/28/2009	<0.25	<0.22	<0.25	<0.39	<0.44	<0.23	<0.50
MW-3	5/1/2008	<0.25	1.5	<0.11	<0.39	0.30 J	<0.23	<0.43
	7/14/2008	<0.25	<0.22	<0.25	<0.39	<0.44	0.63 J	<0.41
MW3R	3/3/2009	<0.25	<0.22	0.46 J	<0.39	<0.44	1.5	<0.50
	7/28/2009	<0.25	<0.22	<0.25	<0.39	<0.44	<0.23	<0.50
MW-4	7/14/2008	**18**	<1.1	1.7 J	120	*96*	*12*	**250**
	07/14/08 (Dup)	**17**	<0.88	1.8 J	120	*124*	11	**360**
	3/3/2009	*1.4* J	0.66 J	0.54 J	10	59	1.4 J	*69*
	7/28/2009	*2.3*	1.7	<0.25	4.8	33	0.8	*59*
MW5	7/14/2008	<0.25	<0.22	<0.25	<0.39	<0.44	1.8	<0.40
	3/3/2009	<0.25	<0.22	<0.25	<0.39	<0.44	<0.23	<0.50
	7/28/2009	<0.25	<0.22	<0.25	<0.39	<0.44	<0.23	<0.50

Table E-1A
Groundwater Analytical Results Summary - PVOCs
MGE Blount Oil Spill / BT^2 Project #3564
(Results are in µg/l)

Sample	Date	Benzene	Ethylbenzene	Toluene	Xylenes	TMBs	MTBE	Naphthalene
MW6	3/3/2009	*0.68* J	26	<0.50	11	78	<0.46	*81*
	3/3/2009 (Dup)	*0.76* J	26	<0.50	11	80	<0.46	*81*
	7/28/2009	*0.59* J	1.1	<0.25	0.85 J	14.9	<0.23	7.8
Rinsate Blank	7/14/2008	<0.25	<0.22	<0.25	<0.39	<0.44	<0.23	NA
Trip Blank	5/1/2008	<0.25	<0.22	0.12 J	<0.39	<0.44	<0.23	NA
	7/14/2008	<0.25	<0.22	<0.25	<0.39	<0.44	<0.23	NA
	3/3/2009	<0.25	<0.22	0.42 J	<0.39	<0.44	<0.23	<0.50
NR 140 Enforcement Standards (ES)		5	700	1,000	10,000	480	60	100
NR 140 Preventive Action Limits (PAL)		0.5	140	200	1,000	96	12	10

ABBREVIATIONS:
µg/l = micrograms per liter or parts per billion (ppb)
MTBE = Methyl-tert-butyl ether
TMBs = 1,2,4- and 1,3,5-trimethylbenzenes
-- = Not Applicable
Dup = Duplicate Sample
PVOCs = Petroleum Volatile Organic Compounds
VOCs = Volatile Organic Compounds

NOTES:
NR 140 ES - Wisconsin Administrative Code (WAC), Chapter NR 140.10 Table 1 - Public Health Groundwater Quality Standards.
NR 140 PAL - WAC, Chapter NR 140.10 Table 1 - Public Health Groundwater Quality Standards.
Bold+underlined values meet or exceed NR 140 enforcement standards.
Italic+underlined values meet or exceed NR 140 preventive action limits.

Table E-1A
Groundwater Analytical Results Summary - PVOCs
MGE Blount Oil Spill / BT^2 Project #3564

LABORATORY NOTES/QUALIFIERS:

J = Results reported between the Method Detection Limit (MDL) and Limit of Quantitation (LOQ) are less certain than results at or above the LOQ.

P = The sample, as received, was not preserved in accordance to the referenced analytical method.

Created by:	TLR	Date:	5/20/2008
Last revision by:	LMH	Date:	12/4/2009
Checked by:	E.J.	Date:	12/4/09

I:\3564\Tables-General\[GW_PVOCs.xls]Notes

Table E-1B
Groundwater Analytical Results Summary - PAHs
MGE Blount Oil Spill / BT^2 Project #3564
(Results are in µg/l)

Sample	Date	Lab Notes	Acenaph-thene	Acenaph-thylene	Anthracene	Benzo(a) anthracene	Benzo(b) fluoranthene	Benzo(k) fluoranthene	Benzo(a) pyrene	Benzo(ghi) perylene	Chrysene	Dibenzo(a,h) anthracene	Fluoranthene	Fluorene	Indeno(1,2,3-cd) pyrene	1-Methyl-naphthalene	2-Methyl-naphthalene	Naphthalene	Phenanthrene	Pyrene
MW-1	5/1/2008	--	<0.37	<0.77	<0.042	<0.049	<0.11	<0.054	*0.038* J	<0.13	<0.046	<0.14	0.10 J	<0.069	<0.069	<0.36	<0.34	<0.44	0.054 J	<0.049
	7/14/2008	--	<0.33	<0.70	<0.038	<0.044	<0.099	<0.049	<0.032	<0.12	<0.041	<0.13	<0.082	<0.063	<0.063	<0.32	<0.31	<0.40	<0.030	<0.044
MW-2	5/1/2008	--	<0.34	<0.71	<0.039	<0.045	<0.10	<0.051	<0.033	<0.12	<0.042	<0.13	<0.084	<0.064	<0.064	<0.33	<0.32	<0.41	0.036 J	0.073 J
	7/14/2008	--	<0.34	<0.70	<0.039	<0.045	<0.10	<0.050	<0.033	<0.12	<0.042	<0.13	<0.083	<0.063	<0.063	<0.33	<0.32	<0.41	<0.031	<0.045
MW-3	5/1/2008	--	<0.35	<0.74	0.047 J	0.093 J	<0.11	<0.053	<0.034	<0.13	<0.044	<0.14	0.36	0.31 J	<0.067	1.6	<0.33	<0.43	0.28	0.16
	7/14/2008	--	<0.34	<0.71	<0.039	<0.045	<0.10	<0.051	<0.033	<0.12	<0.042	<0.13	<0.084	<0.064	<0.064	<0.33	<0.32	<0.41	<0.031	<0.045
MW-4	7/14/2008	--	6.4	<0.70	21	9.3	**0.81**	0.075 J	**0.40**	<0.12	**5.9**	<0.13	*120*	41	<0.063	460	730	**250**	35	42
	07/14/08 (Dup)	--	6.3	<0.69	19	9.9	**0.78**	0.11 J	**0.33**	<0.12	**6.3**	<0.13	*110*	55	<0.062	610	990	**360**	38	*53*
MW5	7/14/2008	--	<0.33	<0.69	<0.038	<0.044	<0.098	<0.049	<0.032	<0.12	<0.041	<0.13	<0.081	<0.062	<0.062	<0.32	<0.31	<0.40	0.11 J	<0.044
Rinsate Blank	7/14/2008	--	<0.94	<2.0	<0.11	<0.13	<0.28	<0.14	<0.091	<0.34	<0.12	<0.37	<0.23	<0.18	<0.18	<0.91	<0.89	<1.1	0.26 J	<0.13
NR 140 Enforcement Standards			NE	NE	3,000	NE	0.2	NE	0.2	NE	0.2	NE	400	400	NE	NE	NE	100	NE	250
NR 140 Preventive Action Limits			NE	NE	600	NE	0.02	NE	0.02	NE	0.02	NE	80	80	NE	NE	NE	10	NE	50

ABBREVIATIONS:
µg/l = micrograms per liter or parts per billion (ppb)
Dup = Duplicate Sample
PAHs = Polynuclear Aromatic Hydrocarbons
NE = No Standard Established
-- = Not Applicable

NOTES:
NR 140 ES - Wisconsin Administrative Code (WAC), Chapter NR 140.10 Table 1 - Public Health Groundwater Quality Standards.
NR 140 PAL - WAC, Chapter NR 140.10 Table 1 - Public Health Groundwater Quality Standards.
Bold+underlined values meet or exceed NR 140 enforcement standards.
Italic+underlined values meet or exceed NR 140 preventive action limits.

LABORATORY NOTES AND QUALIFIERS:
J = Results reported between the Method Detection Limit (MDL) and Limit of Quantitation (LOQ) are less certain than results at or above the LOQ.

Created by:	TLR	Date:	5/20/2008
Last revision by:	TLR	Date:	10/26/2009
Checked by:	EO	Date:	10/26/2009

I:\3564\Tables-General\[GW_PAHs.xls]Revision History

Table E-6
Water Level Summary
MGE Blount Spill Investigation / BT^2 Project #3564
Madison, Wisconsin

Raw Data	Depth to Water in feet below top of well casing															
	MW1	MW2	MW3	MW3R	MW4*	MW4 (prod)	MW5	MW6	SUMP 1	SUMP 1 (prod)	SUMP 2	SUMP 2 (prod)	SUMP 3	SUMP 3 (prod)	SUMP 4	SUMP 4 (prod)
Measurement Date																
May 1, 2008	3.85	4.4	7.08	NI	6.83	3.89	NM	NI	8.30	6.10	NI	NI	NI	NI	NI	NI
May 13, 2008	NM	5.3	7.68	NI	5.67	5.35	NM	NI	8.76	7.19	NI	NI	NI	NI	NI	NI
June 2, 2008	4.24	5.56	8.21	NI	5.82	5.80	6.84	NI	aband.	aband.	5.70	5.64	8.24	none	7.44	7.39
June 4, 2008	NM	NM	NM	NI	8.50	8.49	NM	NI	aband.	aband.	7.20	7.16	8.16	8.15	7.34	7.31
June 10, 2008	NM	NM	NM	NI	2.30	none	NM	NI	aband.	aband.	3.96	3.90	4.73	none	4.26	3.83
June 11, 2008	NM	NM	NM	NI	2.81	2.80	NM	NI	aband.	aband.	4.49	4.42	5.26	5.24	4.46	4.42
June 17, 2008	NM	NM	NM	NI	3.01	none	NM	NI	aband.	aband.	4.67	4.62	5.45	5.24	4.66	4.62
July 14, 2008	2.86	4.51	4.98	NI	4.16	4.15	5.46	NI	aband.	aband.	5.78	5.77	6.67	none	5.85	5.78
August 8, 2008	4.31	5.97	7.51	NI	5.53	none	6.93	NI	aband.	aband.	7.17	7.13	7.99	7.97	7.16	7.13
November 19, 2008	NM	NM	NM	NI	7.75	7.02	NM	NI	aband.	aband.	NM	NM	NM	NM	NM	NM
March 3, 2009	4.37	6.72	aband.	7.67	6.81	6.80	7.26	7.93	aband.	aband.	NM	NM	NM	NM	NM	NM
July 28, 2009	5.11	7.55	aband.	8.12	5.59	5.585	7.77	9.71	aband.	aband.	7.86	7.855	9.03	8.955	5.12	5.11

Well Number	Ground Water Elevation in feet above mean sea level (amsl)															
	MW1	MW2	MW3	MW3R	MW4*	MW4 Prod. Thickness	MW5	MW6	SUMP 1	SUMP 1 Prod. Thickness	SUMP 2	SUMP 2 Product Thickness	SUMP 3	SUMP 3 Prod. Thickness	SUMP 4	SUMP 4 Prod. Thickness
TOC (feet amsl)	854.53	856.03	855.94	NI	855.90		857.08	NI	858.34		857.45		858.28		857.45	
TOC (feet amsl) post 8/8/08	854.51	856.03	aband.	857.11	855.85		857.07	857.98	aband.		857.47		858.30		854.31	
Screen Length (ft)	10.00	10.00	10.00	10.00	10.00		4.00	10.00	7.00							
Total Depth (ft from top of casing)	12.18	14.09	14.57	16.12	12.82		9.50	16.12								
Top of Well Screen Elevation (ft)	852.35	851.94	851.37	850.99	853.08		851.58	851.86	865.34							
Measurement Date																
May 1, 2008	850.68	851.63	848.86	NI	849.07	2.94	NI	NI	850.04	2.20	NI	NI	NI	NI	NI	NI
May 13, 2008	NM	850.73	848.26	NI	850.23	0.32	NI	NI	849.58	1.57	NI	NI	NI	NI	NI	NI
June 2, 2008	850.29	850.47	847.73	NI	850.08	0.02	850.24	NI	NM	aband.	851.75	0.06	850.04	0.00	850.01	0.05
June 4, 2008	NM	NM	NM	NI	847.40	0.01	NM	NI	NM	aband.	850.25	0.04	850.12	0.01	850.11	0.03
June 10, 2008	NM	NM	NM	NI	853.60	0.00	NM	NI	NM	aband.	853.49	0.06	853.55	0.00	853.19	0.43
June 11, 2008	NM	NM	NM	NI	853.09	0.01	NM	NI	NM	aband.	852.96	0.07	853.02	0.02	852.99	0.04
June 17, 2008	NM	NM	NM	NI	852.89	0.00	NM	NI	NM	aband.	852.78	0.05	852.83	0.21	852.79	0.04
July 14, 2008	851.67	851.52	850.96	NI	851.74	0.01	851.62	NI	NM	aband.	851.67	0.01	851.61	0.00	851.60	0.07
August 8, 2008	850.22	850.06	848.43	NI	850.37	0.00	850.15	NI	NM	aband.	850.28	0.04	850.29	0.02	850.29	0.03
November 19, 2008	NM	NM	NM	NI	848.15	0.73	NM	NI	NM	aband.	NM	NM	NM	NM	NM	NM
March 3, 2009	850.14	849.31	aband.	849.44	849.04	0.01	849.81	850.05	NM	aband.	NM	NM	NM	NM	NM	NM
July 28, 2009	849.40	848.48	aband.	848.99	850.26	0.00	849.30	848.27	NM	aband.	849.61	0.00	849.27	0.07	849.19	0.01
Bottom of Well Elevation (ft)	842.35	841.94	841.37	840.99	843.08		847.57	841.86								

NOTES:
NM = not measured NI = Not Installed (or removed) aband. = abandoned
Specific gravity of diesel fuel
*A temporary riser was used on MW-4 during product recovery pumping.

I:\3564\Tables-General\[wlstat1.xls]levels