

## Source Property Information

CLOSURE DATE: 08/13/2013

**BRRTS #:**

02-41-280601

**ACTIVITY NAME:**

V A MEDICAL CENTER BLDG #112

**FID #:**

341041470

**PROPERTY ADDRESS:**

5503 W Blue Mound Rd (aka 5000 W National Ave)

**DATCP #:**

**MUNICIPALITY:**

Milwaukee

**PECFA#:**

**PARCEL ID #:**

4219933000

**\*WTM COORDINATES:**

**WTM COORDINATES REPRESENT:**

X: 684722

Y: 285561

Approximate Center Of Contaminant Source

Approximate Source Parcel Center

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

Please check as appropriate: (BRRTS Action Code)

### CONTINUING OBLIGATIONS

#### Contaminated Media for Residual Contamination:

Groundwater Contamination > ES (236)

Soil Contamination > \*RCL or \*\*SSRCL (232)

Contamination in ROW

Contamination in ROW

Off-Source Contamination

Off-Source Contamination

*(note: for list of off-source properties  
see "Impacted Off-Source Property Information,  
Form 4400-246")*

*(note: for list of off-source properties  
see "Impacted Off-Source Property Information,  
Form 4400-246")*

#### Site Specific Obligations:

Soil: maintain industrial zoning (220)

Cover or Barrier (222)

*(note: soil contamination concentrations  
between non-industrial and industrial levels)*

Direct Contact

Structural Impediment (224)

Soil to GW Pathway

Site Specific Condition (228)

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*



BRRTS #: 02-41-280601

ACTIVITY NAME: VA Medical Center Building #112

**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 #: 4                      Title: Geologic Cross Section A-A'**

**Figure #: 5                      Title: Geologic Cross Section B-B'**

- 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 #: 6                      Title: Groundwater Quality Map**

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

**Figure #: 4                      Title: Groundwater Contour Map (12-19-11)**

**Figure #: 5                      Title: Groundwater Contour Map (3-20-12)**

**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 #: 1A & 1B                      Title: Soil Quality Results (for SI work) & TSSA Soil Quality Results**

- 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 #: 4                      Title: Groundwater Quality Results**

- 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 #: 3                      Title: Static Groundwater Elevations**

**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).

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ACTIVITY NAME: VA Medical Center Building #112

**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  
101 S. Webster Street  
Box 7921  
Madison WI 53707-7921

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



August 13, 2013

Ken Dantoin, P.E., C.E.M.  
Energy Management Engineer  
5000 W. National Avenue  
Milwaukee, Wisconsin 53206

KEEP THIS DOCUMENT WITH YOUR PROPERTY RECORDS

SUBJECT: Final Case Closure with Continuing Obligations, V.A. Medical Center Building # 112, 5000 W. National Avenue, Milwaukee, WI 53285, WDNR BRRTs # Activity # 02-41-280601, FID # 341041470

Dear Mr. Dantoin:

The Department of Natural Resources (DNR) considers site V.A Medical Center Building # 112 closed, with continuing obligations. No further investigation or remediation is required at this time. However, you and future property owners must comply with the continuing obligations as explained in the conditions of closure in this letter. Please read over this letter closely to ensure that you comply with all conditions and other on-going requirements. Provide this letter and any attached maintenance plan to anyone who purchases this property from you.

This final closure decision is based on the correspondence and data provided, and is issued under ch. NR 726, Wisconsin Administrative Code. The Southeast Region Closure Committee reviewed the request for closure on February 7, 2013. The Closure Committee reviews environmental remediation cases for compliance with state laws and standards to maintain consistency in the closure of these cases. A conditional closure letter was issued by the DNR on February 19, 2013, and documentation that the conditions in that letter were met was received on April 3, 2013

Two 50,000-gallon fuel oil USTs referred to as Tank # 1 and 2 were abandoned in place and a third 50,000-gallon fuel oil UST referred to as Tank #3, located near the north corner of building #112 was abandoned by removal. Tank closure assessments were performed in conjunction to excavation work for the installation of a new steam tunnel (6 feet wide by 7 feet tall) located to the east and northeast of building #112. Soils were impacted with concentrations of DRO (824 mg/Kg), Xylene (4,230 ug/Kg) and Naphthalene (17,000 ug/Kg). A total of 13.59 tons of impacted soils were excavated and transported to the Emerald Park Landfill. Three monitoring wells were installed and subsequently followed by adding four monitoring wells. It is only MW-2R that has a reported carbontrachloride of 24.5 ug/l, chloroform (329 ug/l) and an estimated concentration of methylene of 5.8 ug/l that are above NR 140 groundwater standards. The conditions of closure and continuing obligations required were based on the property being used for a Medical Center purposes.

#### Continuing Obligations

The continuing obligations for this site are summarized below. Further details on actions required are found in the section Closure Conditions  
- Groundwater contamination is present above ch. NR 140, Wis. Adm. Code enforcement standards.

- Residual soil contamination exists that must be properly managed should it be excavated or removed.

#### GIS Registry

This site will be listed on the Remediation and Redevelopment Program's internet accessible Geographic Information System (GIS) Registry, to provide notice of residual contamination and of any continuing obligations. DNR approval prior to well construction or reconstruction is required for all sites shown on the GIS Registry, in accordance with s. NR 812.09(4) (w), Wis. Adm. Code. To obtain approval, complete and submit Form 3300-254 to the DNR Drinking and Groundwater program's regional water supply specialist. This form can be obtained on-line at <http://dnr.wi.gov/topic/wells/documents/3300254.pdf> or at the web address listed below for the GIS Registry.

All site information is also on file at the Southeast Region DNR office, 2300 N. Dr. Martin Luther King Jr. Drive, Milwaukee, WI 53212. This letter and information that was submitted with your closure request application, including the maintenance plan, will be included on the GIS Registry in a PDF attachment. To review the site on the GIS Registry web page, visit the RR Sites Map page at <http://dnrmaps.wi.gov/imf/imf.jsp?site=brrts2>.

#### Closure Conditions

Compliance with the requirements of this letter is a responsibility to which you the current property owner and any subsequent property owners must adhere. DNR staff will conduct periodic prearranged inspections to ensure that the conditions included in this letter are met. If these requirements are not followed, the DNR may take enforcement action under s. 292.11, Wisconsin Statutes to ensure compliance with the specified requirements, limitations or other conditions related to the property.

#### Residual Groundwater Contamination (ch. NR 140, 812, Wis. Adm. Code)

Groundwater contamination greater than enforcement standards is present on this contaminated property as shown on the attached map. If you intent to construct a new well, or reconstruct an existing well, you'll need prior DNR approval

#### Residual Soil Contamination (ch. NR 718, chs. 500 to 536, Wis. Adm. Code or ch. 289, Wis. Stats.)

Soil contamination (DRO, Total xylene, and Naphthalene) remains in an isolated area of the site along the north side of building # 112 as indicated on the attached map, Figure 2. If soil in the specific location described above is excavated in the future, the property owner or right-of-way holder at the time of excavation must sample and analyze the excavated soil to determine if contamination remains. If sampling confirms that contamination is present, the property owner or right-of-way holder 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. Contaminated soil may be managed in accordance with ch. NR 718, Wis. Adm. Code, with prior DNR approval.

In addition, all current and future owners and occupants of the property and right-of-way holders 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.

Depending on site-specific conditions, construction over contaminated soils or groundwater may result in vapor migration of contaminants into enclosed structures or migration along newly placed underground utility lines. The potential for vapor inhalation and means of mitigation should be evaluated when planning any future redevelopment, and measures should be taken to ensure the continued protection of public health, safety, welfare and the environment at the site.

General Wastewater Permits for Construction Related Dewatering Activities

The DNR's Water Quality Program regulates point source discharges of contaminated water, including discharges to surface waters, storm sewers, pits, or to the ground surface. This includes discharges from construction related dewatering activities, including utility and building construction.

If you or any other person plan to conduct such activities, you or that person must contact that program, and if necessary, apply for the necessary discharge permit. Additional information regarding discharge permits is available at <http://dnr.wi.gov/topic/wastewater/GeneralPermits.html>. If residual soil or groundwater contamination is likely to affect water collected in a pit/trench that requires dewatering, a general permit for Discharge of Contaminated Groundwater from Remedial Action Operations may be needed. If water collecting in a pit/trench that requires dewatering is expected to be free of pollutants other than suspended solids and oil and grease, a general permit for Pit/Trench Dewatering may be needed.


The following DNR fact sheet, "Continuing Obligations for Environmental Protection", RR-819, was included with this letter, to help explain a property owner's responsibility for continuing obligations on their property. If the fact sheet is lost, you may obtain a copy at <http://dnr.wi.gov/files/PDF/pubs/rr/RR819.pdf>.

Please send written notifications in accordance with the above requirements to the Southeast Region RR Office, 2300 N. Dr. Martin Luther King Jr. Drive, Milwaukee, WI 53212 to the attention of the Regional RR Program Project Manager or the Environmental Program Assistant.

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 DNR 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 Binyoti F. Amungwafor at 414-263-8607.

Sincerely,

  
Pamela Mylotta  
Team Supervisor

Southeast Region Remediation & Redevelopment Program

Attachments:

- Remaining groundwater contamination map, Figure 6
- Remaining soil contamination map, Figure 2
- RR 819

cc: Mr. Adam J. Roder, The SIGMA GROUP  
Case File

**ANALYTICAL KEY**

BCM = BROMODICHLOROMETHANE  
 CT = CARBON TETRACHLORIDE  
 CF = CHLOROFORM  
 1,1,2,2-PCA = 1,1,2,2-TETRACHLOROETHANE  
 PCE = TETRACHLOROETHENE  
 TCE = TRICHLOROETHENE  
 NA = NOT ANALYZED

( ) = CONCENTRATION REPORTED ABOVE NR 140 PREVENTIVE ACTION LIMIT  
 [ ] = CONCENTRATION REPORTED ABOVE NR 140 ENFORCEMENT STANDARD

ALL CONCENTRATIONS REPORTED IN MICROGRAMS PER LITER (µg/L)

Date:	MW-1						MW-1R	
	2/28/05	5/9/05	9/1/05	11/30/05	3/14/06	6/21/06	1/4/12	3/20/12
VOCs								
BCM	[1.3]	<0.28	<0.28	<0.28	<0.28	<0.82	<0.68	<0.68
CT	(0.7)	<0.25	<0.25	0.48J	<0.25	<0.52	<0.47	<0.47
CF	[43]	[11]	[13]	[32]	[52]	[7.4]	<0.49	(0.76)
1,1,2,2-PCA	<0.29	<0.29	<0.29	<0.39	<0.29	<0.89	<0.53	<0.53
PCE	<0.45	<0.45	<0.45	<0.45	<0.45	<0.37	<0.44	<0.44
TCE	<0.37	<0.37	<0.37	<0.37	<0.37	<0.39	<0.47	<0.47

Date:	MW-5						MW-5R	
	2/28/05	5/9/05	9/1/05	11/30/05	3/14/06	6/21/06	12/19/11	3/20/12
VOCs								
BCM	<0.28	<0.28	<0.35	<0.28	<0.28	<0.82	<0.68	<0.68
CT	<0.25	<0.25	<0.25	<0.25	<0.25	<0.52	<0.47	<0.47
CF	<0.78	<0.78	<0.78	<0.78	<0.78	<0.61	<0.49	<0.49
1,1,2,2-PCA	<0.29	<0.29	<0.29	<0.29	<0.29	<0.89	<0.53	<0.53
PCE	<0.45	<0.45	<0.45	<0.45	<0.45	<0.37	<0.44	<0.44
TCE	<0.37	<0.37	<0.37	<0.37	<0.37	<0.39	<0.47	<0.47

Date:	MW-4						12/19/11	3/20/12
	2/28/05	5/9/05	9/1/05	11/30/05	11/30/05	6/21/06		
VOCs								
BCM	<0.28	<0.28	<0.28	<0.28	<0.28	<0.82	Well Buried	Well Buried
CT	<0.25	<0.25	<0.25	<0.25	<0.25	<0.52		
CF	<0.78	<0.78	<0.78	<0.78	<0.78	<0.61		
1,1,2,2-PCA	<0.29	<0.29	<0.29	<0.29	<0.29	<0.89		
PCE	<0.45	<0.45	<0.45	<0.45	<0.45	<0.37		
TCE	<0.37	<0.37	<0.37	<0.37	<0.37	<0.39		

Date:	MW-6							
	2/28/05	5/9/05	9/1/05	11/30/05	3/14/06	6/21/06	12/19/11	3/20/12
VOCs								
BCM	<0.28	<0.28	<0.28	<0.28	<0.28	<0.82	<0.68	<0.68
CT	<0.25	<0.25	<0.25	<0.25	<0.25	<0.52	<0.47	<0.47
CF	<0.78	<0.78	<0.78	<0.78	<0.78	<0.61	<0.49	<0.49
1,1,2,2-PCA	<0.29	<0.29	<0.29	<0.29	<0.29	<0.89	<0.53	<0.53
PCE	<0.45	<0.45	<0.45	<0.45	<0.45	<0.37	<0.44	<0.44
TCE	<0.37	<0.37	<0.37	<0.37	<0.37	<0.39	<0.47	<0.47

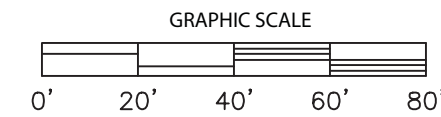
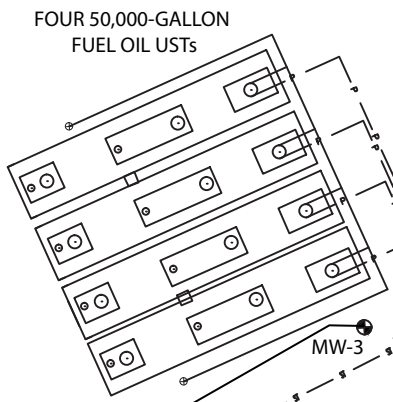
Date:	PZ-1						PZ-1R	
	2/28/05	5/9/05	9/1/05	11/30/05	3/14/06	6/21/06	12/19/11	3/20/12
VOCs								
BCM	<0.28	<0.28	<0.28	<0.28	<0.28	<0.82	<0.68	<0.68
CT	<0.25	<0.25	<0.25	<0.25	<0.25	<0.52	<0.47	<0.47
CF	<0.78	<0.78	<0.78	<0.78	(0.80)	<0.61	<0.49	<0.49
1,1,2,2-PCA	<0.29	<0.29	<0.29	<0.29	<0.29	<0.89	<0.53	<0.53
PCE	<0.45	<0.45	<0.45	<0.45	<0.45	<0.37	<0.44	<0.44
TCE	<0.37	<0.37	<0.37	<0.37	<0.37	<0.39	<0.47	<0.47

Date:	MW-2						MW-2R	
	2/28/05	5/9/05	9/1/05	11/30/05	3/14/06	6/21/06	12/19/11	3/20/12
VOCs								
BCM	[105]	[78]	[107]	[63]	[44]	[45]	<0.68	<3.4
CT	[34]	[40]	[23]	[18]	<12.5	<26	[22.3]	[29.5]
CF	[5,100]	[3,600]	[5,740]	[5,700]	[3,800]	[4,600]	[218]	[320]
1,1,2,2-PCA	[1.3]	[1.5]	<14.5	<14.5	<14.5	<44.5	<0.53	<2.65
PCE	[25]	[13]	<22.5	<22.5	<22.5	<18.5	<0.44	<2.2
TCE	[21]	[16]	[24]	[24]	<18.5	[21.5]	<0.47	<2.35

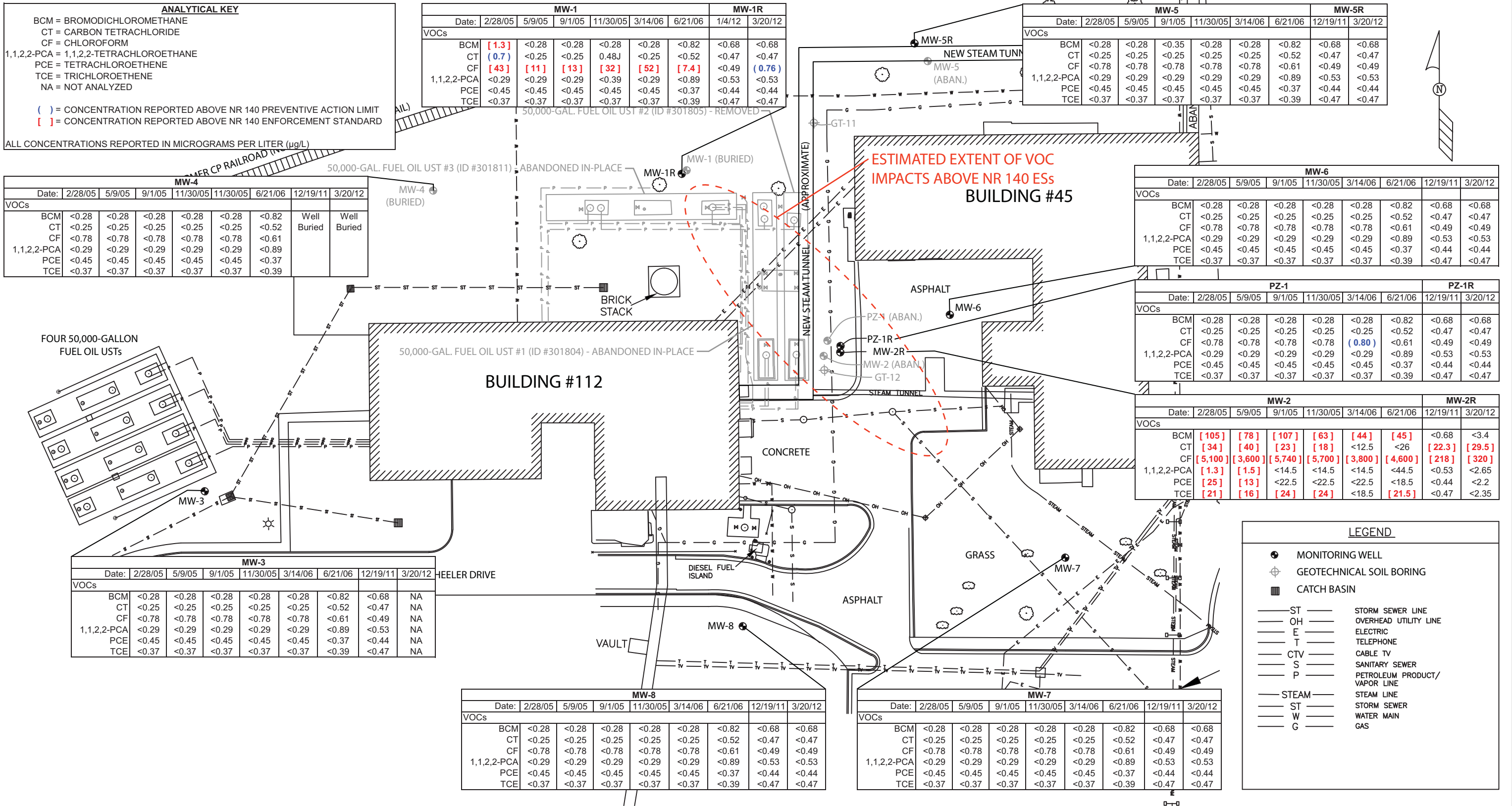
Date:	MW-3							
	2/28/05	5/9/05	9/1/05	11/30/05	3/14/06	6/21/06	12/19/11	3/20/12
VOCs								
BCM	<0.28	<0.28	<0.28	<0.28	<0.28	<0.82	<0.68	NA
CT	<0.25	<0.25	<0.25	<0.25	<0.25	<0.52	<0.47	NA
CF	<0.78	<0.78	<0.78	<0.78	<0.78	<0.61	<0.49	NA
1,1,2,2-PCA	<0.29	<0.29	<0.29	<0.29	<0.29	<0.89	<0.53	NA
PCE	<0.45	<0.45	<0.45	<0.45	<0.45	<0.37	<0.44	NA
TCE	<0.37	<0.37	<0.37	<0.37	<0.37	<0.39	<0.47	NA

Date:	MW-8							
	2/28/05	5/9/05	9/1/05	11/30/05	3/14/06	6/21/06	12/19/11	3/20/12
VOCs								
BCM	<0.28	<0.28	<0.28	<0.28	<0.28	<0.82	<0.68	<0.68
CT	<0.25	<0.25	<0.25	<0.25	<0.25	<0.52	<0.47	<0.47
CF	<0.78	<0.78	<0.78	<0.78	<0.78	<0.61	<0.49	<0.49
1,1,2,2-PCA	<0.29	<0.29	<0.29	<0.29	<0.29	<0.89	<0.53	<0.53
PCE	<0.45	<0.45	<0.45	<0.45	<0.45	<0.37	<0.44	<0.44
TCE	<0.37	<0.37	<0.37	<0.37	<0.37	<0.39	<0.47	<0.47

Date:	MW-7							
	2/28/05	5/9/05	9/1/05	11/30/05	3/14/06	6/21/06	12/19/11	3/20/12
VOCs								
BCM	<0.28	<0.28	<0.28	<0.28	<0.28	<0.82	<0.68	<0.68
CT	<0.25	<0.25	<0.25	<0.25	<0.25	<0.52	<0.47	<0.47
CF	<0.78	<0.78	<0.78	<0.78	<0.78	<0.61	<0.49	<0.49
1,1,2,2-PCA	<0.29	<0.29	<0.29	<0.29	<0.29	<0.89	<0.53	<0.53
PCE	<0.45	<0.45	<0.45	<0.45	<0.45	<0.37	<0.44	<0.44
TCE	<0.37	<0.37	<0.37	<0.37	<0.37	<0.39	<0.47	<0.47



- Notes:
- Original site map based on survey performed by Sigma Development, Inc.
  - Existing and replacement monitoring wells resurveyed by Sigma Development, Inc. in January 2012.



**LEGEND**

- MONITORING WELL
- ⊕ GEOTECHNICAL SOIL BORING
- CATCH BASIN
- ST — STORM SEWER LINE
- OH — OVERHEAD UTILITY LINE
- E — ELECTRIC
- T — TELEPHONE
- CTV — CABLE TV
- S — SANITARY SEWER
- P — PETROLEUM PRODUCT/VAPOR LINE
- STEAM — STEAM LINE
- ST — STORM SEWER
- W — WATER MAIN
- G — GAS

V. A. MEDICAL CENTER BUILDING #112  
 5000 W. NATIONAL AVENUE, MILWAUKEE, WISCONSIN

DATE: 03/28/2012 | AJR | 12700 Env Base Map 2012.pdf

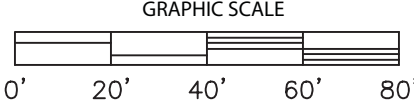
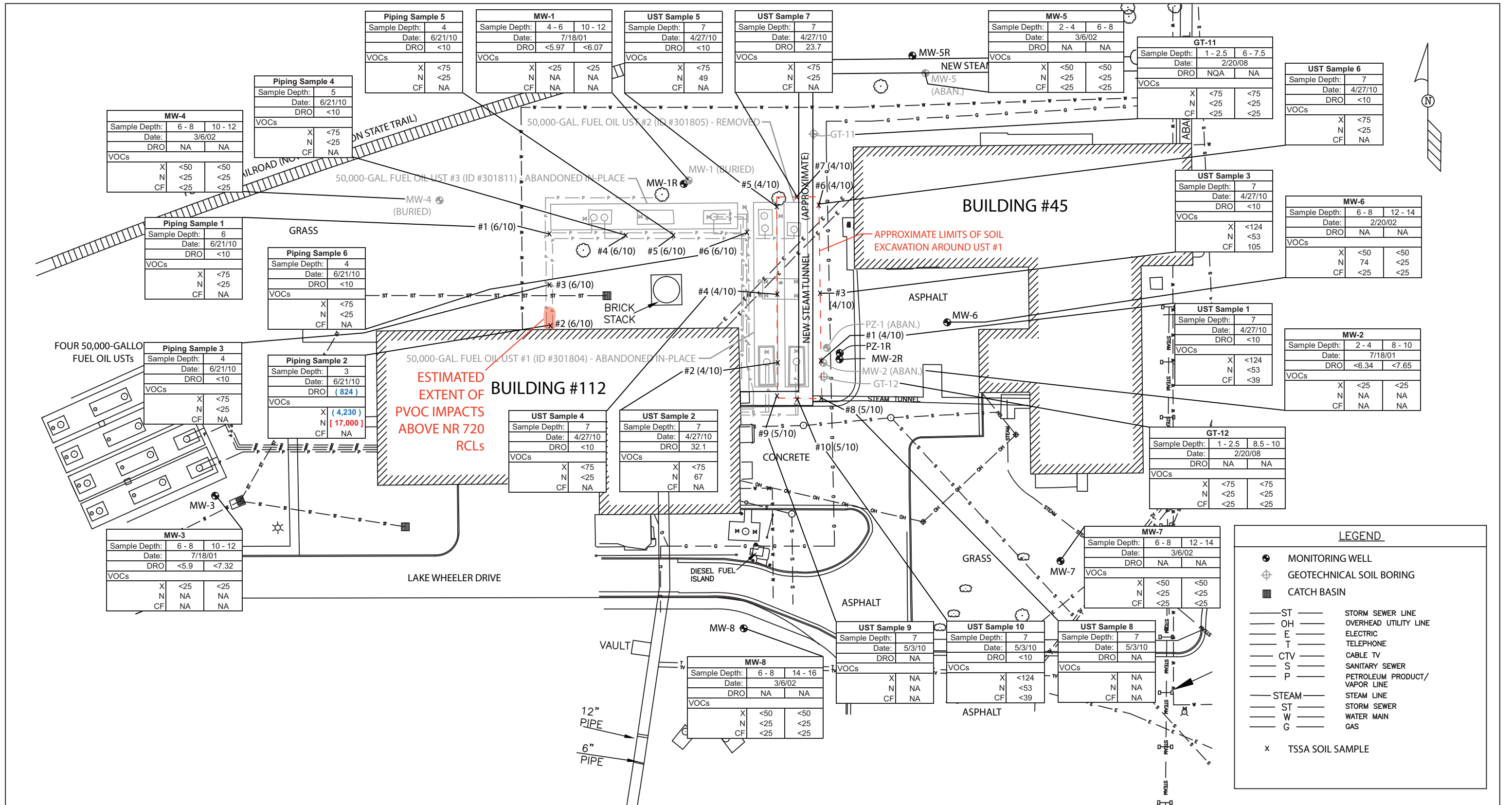
**GROUNDWATER QUALITY MAP**

SCALE: 1"=40'

**FIGURE 6**

THE SIGMA GROUP  
 Single Source. Sound Solutions.  
 www.thesigmagroup.com  
 1300 West Canal Street  
 Milwaukee, WI 53233  
 414-643-4200





**ANALYTICAL KEY**

DRO = DIESEL RANGE ORGANICS (mg/kg)  
 X = XYLENES, TOTAL (µg/kg)  
 N = NAPHTHALENE (µg/kg)  
 CF = CHLOROFORM (µg/kg)  
 NA = NOT ANALYZED

( ) = CONCENTRATION EXCEEDS NR 720 RCL FOR PROTECTION OF GROUNDWATER  
 [ ] = CONCENTRATION EXCEEDS NR 746 TABLE 1 VALUE

**V. A. MEDICAL CENTER BUILDING #112**  
**5000 W. NATIONAL AVENUE, MILWAUKEE, WISCONSIN**

**SIGMA** GROUP  
 www.thesigmagroup.com  
 1300 West Canal Street  
 Milwaukee, WI 53233  
 414-643-4200

DATE: 04/24/2012 | AJR | 12700 Env Base Map 2012.pdf

SCALE: 1"=40'

**SOIL QUALITY MAP**

**FIGURE 2**

Notes:  
 1. Original site map based on survey performed by Sigma Development, Inc.  
 2. Existing and replacement monitoring wells resurveyed by Sigma Development, Inc. in January 2012.



February 19, 2013

Ken Dantoin, P.E., C.E.M.  
Energy Management Engineer  
5000 W National Avenue  
Milwaukee, Wisconsin 53295

Subject: Conditional Closure Decision, With Requirements to Achieve Final Closure, VA Medical Center  
Building # 112, 5000 W. National Avenue, Milwaukee, WI 53295, WDNR BRRTS Activity #  
02-41-280601, FID # 341041470

Dear Mr. Dantoin:

On February 7, 2013 the Southeast Regional Closure Committee reviewed your request for closure of the case described above. The Southeast Regional 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 Southeast Regional Closure Committee has determined that the Partial Volatile Organic Compounds and Chlorinated Solvent Compounds contamination on the site resulting from the abandonment of two 50,000 gallon fuel oil tanks in place and the removal of one 50,000 gallon fuel oil tank all located in the northeast corner of the site appears to have been investigated and remediated to the extent practicable under site conditions. Your case meets the screening criteria of s. NR 746.07 or s. NR 746.08, Wis. Adm. Code, and the requirements of ch. NR 726, Wis. Adm. Code and will be closed if the following conditions are satisfied.

#### MONITORING WELL ABANDONMENT

The monitoring wells at the site must be properly abandoned in accordance with ch. NR 141, Wis. Adm. Code. Documentation of well abandonment must be submitted to Binyoti F. Amungwafor on Form 3300-005, found at <http://dnr.wi.gov/org/water/dwg/forms/3300005.pdf> or provided by the Department of Natural Resources.

When the above condition has been satisfied, please submit the well abandonment forms and any disposal receipts to verify that the applicable condition has been met, and your case will be closed. Your site will be listed on the DNR's Remediation and Redevelopment GIS Registry. Information that was submitted with your closure request application will be included on the GIS Registry. To review the site on the GIS Registry web page, visit the RR Sites Map page at: <http://dnrmaps.wi.gov/imf/imf.jsp?site=brts2>.

#### CONTINUING OBLIGATIONS AND RESPONSIBILITIES

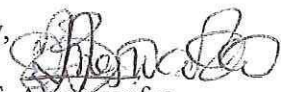
The continuing obligations for this site are summarized below.

- Groundwater contamination is present above ch. NR 140, Wis. Adm. Code enforcement standards.
- Residual soil contamination exists that must be properly managed should it be excavated or removed.

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 414-263-8607.

Sincerely,



Binyoti F. Amungwafor  
Hydrogeologist  
Remediation & Redevelopment Program

CC: Mr. Adam J. Roder, SIGMA ENVIRONMENTAL SERVICES, INC., 1300 West Canal Street, Milwaukee, WI 53233/Case File

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Jurisdiction vested in Government. (See explanatory sheet)

For deed, dated 9/20/65, re strip offered from John H. Tweedy and wife to Milwaukee & St. Paul Ry. Co., see labeled folder in Title File.

1. Deed, dated April 4, 1867, by John H. Tweedy and wife, to the National Asylum for Disabled Volunteer Soldiers, conveying certain parcels of land excepting roadway. 4 - 7
2. Deed, dated April 4, 1867, by Henry Williams and wife to the National Asylum for Disabled Volunteer Soldiers, conveying certain parcels of land, excepting roadway. 8 - 11
3. Deed, dated April 4, 1867, by John L. Mitchell and wife to the National Asylum for Disabled Volunteer Soldiers, conveying certain parcels of land. 12 - 15
4. Deed, dated April 4, 1867, by Ann Fennell Hathaway, Executric, to the National Asylum for Disabled Volunteer Soldiers, conveying 80 acres of land. 16 - 18
5. Quitclaim deed, dated July 8, 1867, by Charles H. Williams and wife, to the National Asylum for Disabled Volunteer Soldiers, conveying Lot No. 16, Block 216, in Williams Addition. 1 - 3
6. Deed, dated September 14, 1870, by the National Asylum for Disabled Volunteer Soldiers to August Tank, conveying Lot No. 16, Block 216, in Williams Addition. 19 - 21
7. Quitclaim deed, dated July 28, 1884, by Chicago, Milwaukee, and St. Paul Railway Company, conveying to the National Home for Disabled Volunteer Soldiers, the southeast corner of the NW 1/4, Sec. 35, T. 7 N. of 21 E, and rights, title, and interests conveyed to Dennis McNamara and wife, excepting a certain strip of land. 42 - 45
8. Right-of-way, dated February 28, 1891, by the National Home for Disabled Volunteer Soldiers to Milwaukee Street Railway Company, re street railway system on reservation (see Items 9. & 11. below). 25 - 28
9. Agreement, dated September 13, 1912, between the National Home for Disabled Volunteer Soldiers, and Milwaukee Light, Heat, and Traction Company, re extension of right-of-way (see Item 8. above & Item 11. below). 22 - 24
10. <sup>Lease</sup> ~~Deed~~, dated December 17, 1912, by the National Home for Disabled Volunteer Soldiers, <sup>leasing</sup> ~~conveying~~ to the Village of West Milwaukee 3/4 of an acre. 29 - 31

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11.	Agreement, dated <b>January 21, 1922</b> , by the National Home for Disabled Volunteer Soldiers, and the Milwaukee Electric Railway and Light Company, re extension of agreement dated February 28, 1891 and September 21, 1891. (see Items 8. & 9. above).	37 - 41
12.	Quitclaim deed, dated <b>April 19, 1905</b> , by the National Home for Disabled Volunteer Soldiers, to Village of West Allis, granting right-of-way, water main from Milwaukee to West Allis (see special folder in T/F).	33 - 36
For correspondence re changes in tracks of Milwaukee Electric Railway Company, see special folder in Title File.		
13.	Revocable license, dated <b>April 10, 1942</b> , to Works Project Administration to use portion of reservation for storage of materials.	46 - 48
14.	Lease, dated <b>February 18, 1942</b> , (VAm-16977 - Company's No. 51969) to Veterans Administration by the Chicago, Milwaukee, St. Paul, and Pacific Railroad Company, granting right-of-way on property as shown on attached drawing.	49 - 52
15.	Public Law 81 - 281st Congress, approved <b>September 1, 1949</b> , authorizing the Administrator of Veterans Affairs to convey certain lands and to lease certain other lands to Milwaukee County, Wisconsin.	53 - 54
16.	Quitclaim deed, dated <b>December 23, 1949</b> , from the Deputy Administrator of Veterans Affairs, pursuant to the authority of Public law 81 - 281st Congress (Item 15. above) unto Milwaukee County, Wisconsin, two parcels of land containing 8.69 and 85.02 acres, respectively, designated as Parcels I and II, and shown on the Plot Plan listed as Item 18. below).	56 - 62
17.	Lease No. V1001SR-31, dated <b>December 23, 1949</b> , by the Deputy Administrator of Veterans Affairs, and under the authority of Public Law 81 - 281st Congress (Item 15. above) leasing to Milwaukee County, Wisconsin, for a term of twenty years, that portion of lands comprising the Veterans Administration Center at Wood, Wisconsin, described therein and designated as Parcel III on the Plot Plan listed as Item 18. below.	63 - 68
18.	Plot Plan of the Veterans Administration Center, Wood, Wisconsin, showing the location of Parcels I and II, conveyed to Milwaukee County, Wisconsin, by the quitclaim deed listed as Item 16. above, and the approximate location of Parcel III, referred to in the lease to Milwaukee County, listed as Item 17. above.	69

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19. Letter, dated **May 23, 1952**, from the Administrator of Veterans Affairs to the Commissioner of Public Roads, Bureau of Public Roads, approving the grant of a right-of-way to the State of Wisconsin for the construction and operation of an east-west expressway through a portion of the VA Reservation, Wood, Wisconsin, with a plat entitled "City of Milwaukee - State Highway Commission of Wisconsin, Drawing No. 3-WR-3-3", dated March 24, 1952, showing the location of the right-of-way, attached (filed for record as an easement). 70 - 74
20. Public Law 83 - 669th Congress, approved **August 27, 1954**, authorizing and directing the Administrator of Veterans Affairs to convey to Milwaukee County, Wisconsin, for use for highway, motor vehicle parking, and recreational purposes, a tract of 28 acres, more or less, together with structures thereon, constituting a portion of the reservation of the Veterans Administration Center, Wood, Wisconsin. 75
21. Quitclaim deed, dated **February 24, 1955**, by the Administrator of Veterans Affairs, quitclaiming unto Milwaukee County, Wisconsin, pursuant to the authority contained in Public Law 83 - 669th Congress, listed as Item 20. above, a tract of land containing 28.07 acres. 76 - 79
22. Public Law 84 - 315th Congress, approved **August 9, 1955**, authorizing and directing the Administrator of Veterans Affairs to convey by quitclaim deed to the City of Milwaukee, Wisconsin, a parcel of land containing 4 acres, which is presently under lease to the City of Milwaukee, for the Milwaukee Water Works Menominee Valley booster station. 80
23. Quitclaim deed, dated **February 9, 1956**, by the Administrator of Veterans Affairs, remising, remitting, releasing, and quitclaiming, without covenant or warrant of any kind, to the City of Milwaukee, Wisconsin, for and in consideration of the sum of \$5,000 and pursuant to Public Law 84 - 315th Congress, listed as Item 22. above, a tract of land containing approximately 4 (4.069) acres, with plat attached. 81 - 83
24. Recommendation, dated **September 20, 1955**, by the Assistant Administrator for Construction to the Administrator that he authorize the declaration of approximately 21 acres of land as excess to the needs of the Veterans Administration (approved by the Administrator on October 14, 1955). 84

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25.	Standard Form 118, Report of Excess Real Property, Holding Agency No. VA-295, dated <b>October 27, 1955</b> , reporting the 21 acres of land, referred to in Item 24. above, to the General Services Administration as excess to the needs of the Veterans Administration, with plat attached.	85 - 89
26.	Recommendation, dated <b>September 12, 1956</b> , by the Assistant Administrator for Construction to the Administrator that about 11 acres, designated as Area No. 5 on the platt attached to the Report of Excess Real Property, No. VA-295, listed as Item 25. above, be withdrawn from excess category.	90
27.	Standard Form 118, Report of Excess Real Property, Holding Agency No. VA-295, amended <b>October 16, 1956</b> , submitted to withdraw the 11 acres referred to in Item 26. above, from the previous Report of Excess dated October 27, 1955, listed as Item 25. above. (Report withdrawn 6/13/58.)	91 - 94
28.	Easement, dated <b>April 8, 1958</b> , granted to the Sewerage Commission of the City of Milwaukee, in consideration of the payment of \$150, to build, construct, repair, rebuild, maintain, and operate an intercepting sewer traversing the 10 acres of excess land covered by the Amended Report of Excess Real Property, No. VA-295, dated October 16, 1956, listed as Item 26. above.	95 - 96
29.	Easement, dated <b>September 30, 1958</b> , granted to Milwaukee County for public highway purposes. The purpose of this easement is to provide for the inclusion of an additional 0.246 of an acre to the 28.07 acres conveyed to Milwaukee County for public highway purposes by quitclaim deed dated February 24, 1955, listed as Item 21. above.	97 - 78
30.	Easement, dated <b>October 20, 1959</b> , granted to the City of Milwaukee to construct, repair, maintain, and operate a 48-inch water line in, over, upon, and across a portion of the lands of the Veterans Administration Center Reservation, Wood, Wisconsin, as more particularly described therein.	99 - 100
31.	Quitclaim deed, dated <b>February 25, 1969</b> , by which the General Services Administration conveyed to Milwaukee County 15.56 acres, more or less, all being a portion of the VA Center Reservation, Wood, Wisconsin.	101 - 108

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32.	Deed of Easement, dated <b>October 4, 1971</b> , granted to the Department of Transportation, Division of Highways, Wisconsin, to transfer said land to the Federal Highway Commission and for drainage and sloping purposes on a portion of the lands of the Veterans Administration Center Reservation, Wood, Wisconsin, as more particularly described therein.	109 - 114
33.	Deed of Easement, dated <b>October 19, 1973</b> , to the City of Milwaukee, Wisconsin, to install, construct, operate, and maintain a 54-inch water main in, over, and across a portion of the VA Center Reservation, Wood, Milwaukee, Wisconsin.	115 - 119
34.	Memorandum, dated <b>October 23, 1974</b> , by which the Administrator of Veterans Affairs approved transfer of accountability of 34.3749± acres from the jurisdiction of the Department of Medicine and Surgery, to the jurisdiction and control of the National Cemetery System, said acreage once being a portion of the VA Center Reservation, Wood, Wisconsin.	120 - 122
35.	Memorandum, dated <b>August 30, 1977</b> , by which the Administrator of Veterans Affairs transferred accountability of 6.2693± acres from the jurisdiction of the Department of Medicine and Surgery, to the jurisdiction and control of the National Cemetery System, said acreage once being a portion of the VA Center Reservation, Wood, Wisconsin.	123 - 126
36.	Memorandum, dated <b>June 10, 1981</b> , by which the Acting Administrator of Veterans Affairs on July 8, 1981 approved transfer of 6.2693± acres from the jurisdiction and control of the National Cemetery System to the jurisdiction and control of the Department of Medicine and Surgery, said acreage now being a portion of the VA Medical Center, Wood, Wisconsin.	127 - 129
37.	Memorandum, dated <b>December 20, 1983</b> , by which the Administrator of Veterans Affairs on January 26, 1984, approved the transfer of accountability for two parcels of land (Parcel "A", 3.5± acres and Parcel "B" 2.4± acres) from the jurisdiction of the Department of Medicine and Surgery to the jurisdiction and control of the Department of Memorial Affairs, said acreage once being a portion of the VA Medical Center, Wood, Wisconsin, with attached drawing showing location of the two parcels.	130 - 131

(NOTE: Parcel "A" surveyed out to be 2.631 acres; Parcel "B" surveyed out to be 2.4876 acres - Both parcels total 4.8507 acres)



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38. Memorandum, dated June 26, 1985, by which the Deputy Administrator of Veterans Affairs on July 25, 1985, approved the transfer of accountability for approximately 12 acres of land from the jurisdiction and control of the Department of Medicine and Surgery to the Department of Memorial Affairs, said acreage once being a portion of the VA Medical Center, Milwaukee, Wisconsin. By the same memorandum, dated June 26, 1985, the Deputy Administrator also approved the return of jurisdiction and control to the Department of Medicine and Surgery of a 2.5± acre parcel of land which had been transferred to the Department of Memorial Affairs by memorandum dated December 20, 1983, referred to as Parcel "B" in Item No. 37. above, said acreage now being a portion of the VA Medical Center, Milwaukee, WI. Transfer of the 12± acre parcel to the Department of Memorial Affairs is subject to survey by that Department. A drawing showing the location of the two parcels is attached to the June 26 memorandum. 132 - 133
39. Memorandum dated May 4, 1984, by which the Administrator of Veterans Affairs on July 1, 1984 approved the transfer of title to a 0.46 acre parcel of land at the VA Medical Center, Wood, WI, to the Milwaukee Metropolitan Sewerage District (MMSD). A drawing is attached to the memo showing location of parcel. 134-135
40. Standard Form 118, Report of Excess Real Property, Holding Agency No. VA-710, dated JUNE 7, 1984, reporting the 0.46 acres of land referred to in Item 39 above, to the General Service Administration as excess to the needs of the VA. The VA inadvertently retained title to the 0.46 acre parcel when it conveyed property to the County of Milwaukee in 1949, as authorized by Public Law 81-281. Attached to Form 118 is a legal description, plat, and Report of Title. 136-140
41. Quitclaim Deed, dated JANUARY 29, 1986, by which the General Services Administration conveyed to the Milwaukee Sewerage District, a political subdivision of the State of Wisconsin, the 0.46 acre portion of the Wood VA Medical Center, Milwaukee, Wisconsin. 141-143

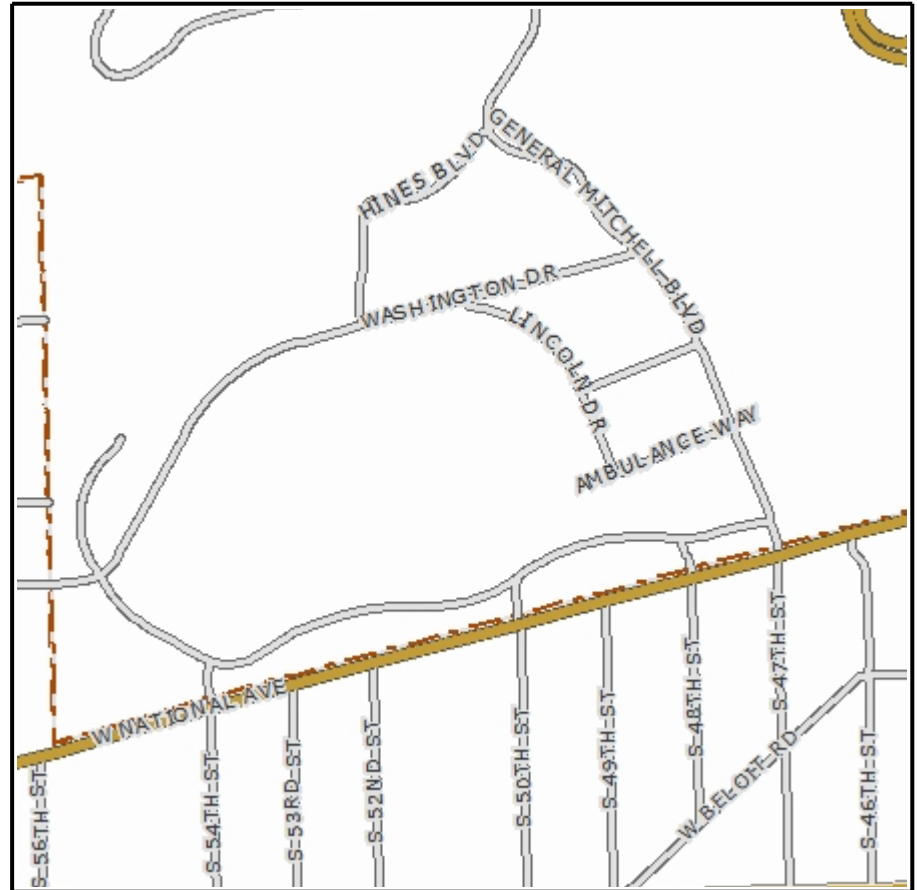
# Milwaukee County Land Information Parcel Report

TAXKEY: 4379999000

Report generated 4/24/2012 10:48:29 AM



Parcel location within Milwaukee County



Selected parcel highlighted

## Parcel Information

**TAXKEY:** 4379999000

**Record Date:** 03/12/1976

**Owner(s):** SOLDIERS HOME

**Address:** 4500 W NATIONAL AVE

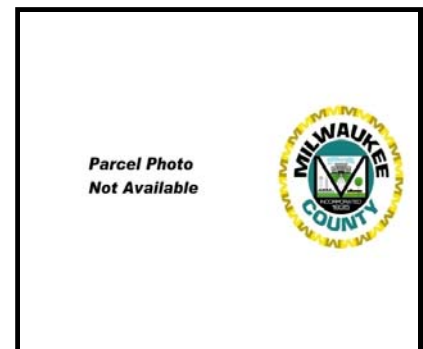
**Municipality:** Milwaukee

**Acres:** 244.42

**Assessed Value:** \$50,327,000

**Parcel Description:** FEDERAL

**Legal Description:** LANDS IN SE & NE 1/4 SEC 35-7-21 ALL S OF 1/4 SECTION LINE & BOUNDED E-S & W BY CITY LIMITS EXC ELY PART DEEDED FOR STADIUM



Parcel photo

This map is a user generated static output from an Internet mapping site and is for reference only. Data layers that appear on this map may or may not be accurate, current, or otherwise reliable.

**GIS Registry Packet**  
**VA Medical Center Building #112**  
**BRRTS #02-41-280601**

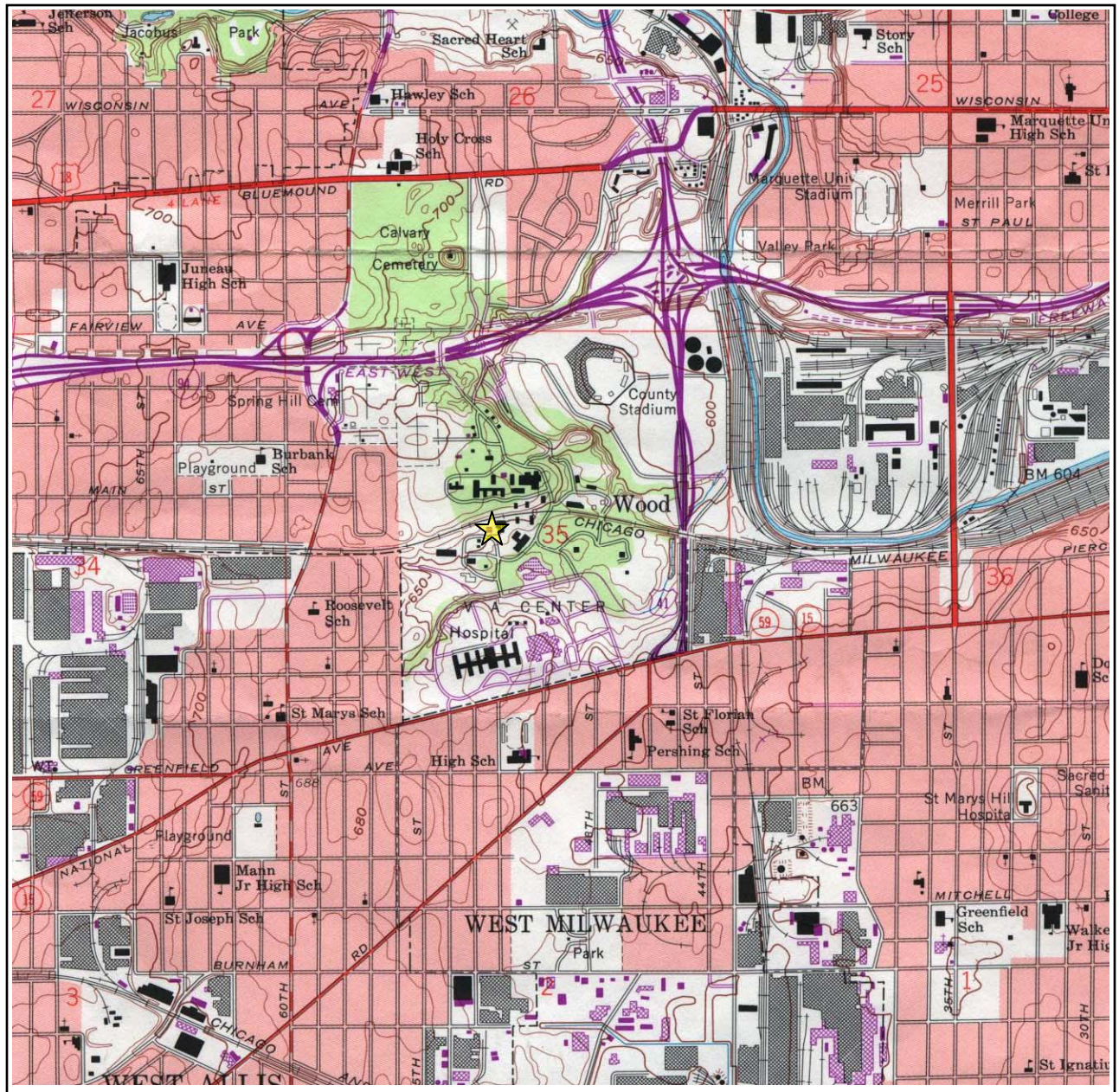
**STATEMENT BY RESPONSIBLE PARTY**

Clement J. Zablocki VA Medical Center, the responsible party for the VA Medical Center Building #112 project located at 5000 W. National Avenue, Milwaukee, Wisconsin states that the legal description provided to the Wisconsin Department of Natural Resources in this case closure request and Geographic Information System (GIS) Registry packet for WDNR BRRTS #02-41-280601 is complete and accurate to the best of our knowledge.

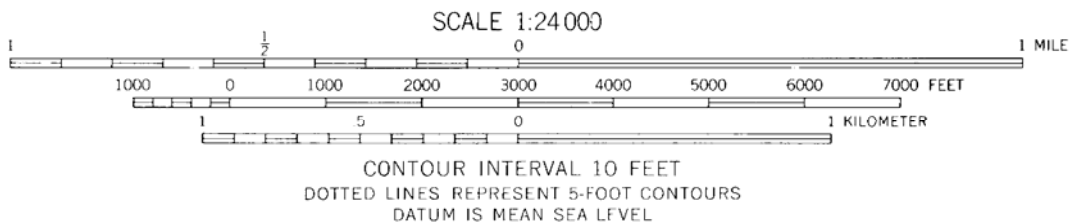


\_\_\_\_\_  
Signature of Representative for Responsible Party

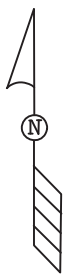
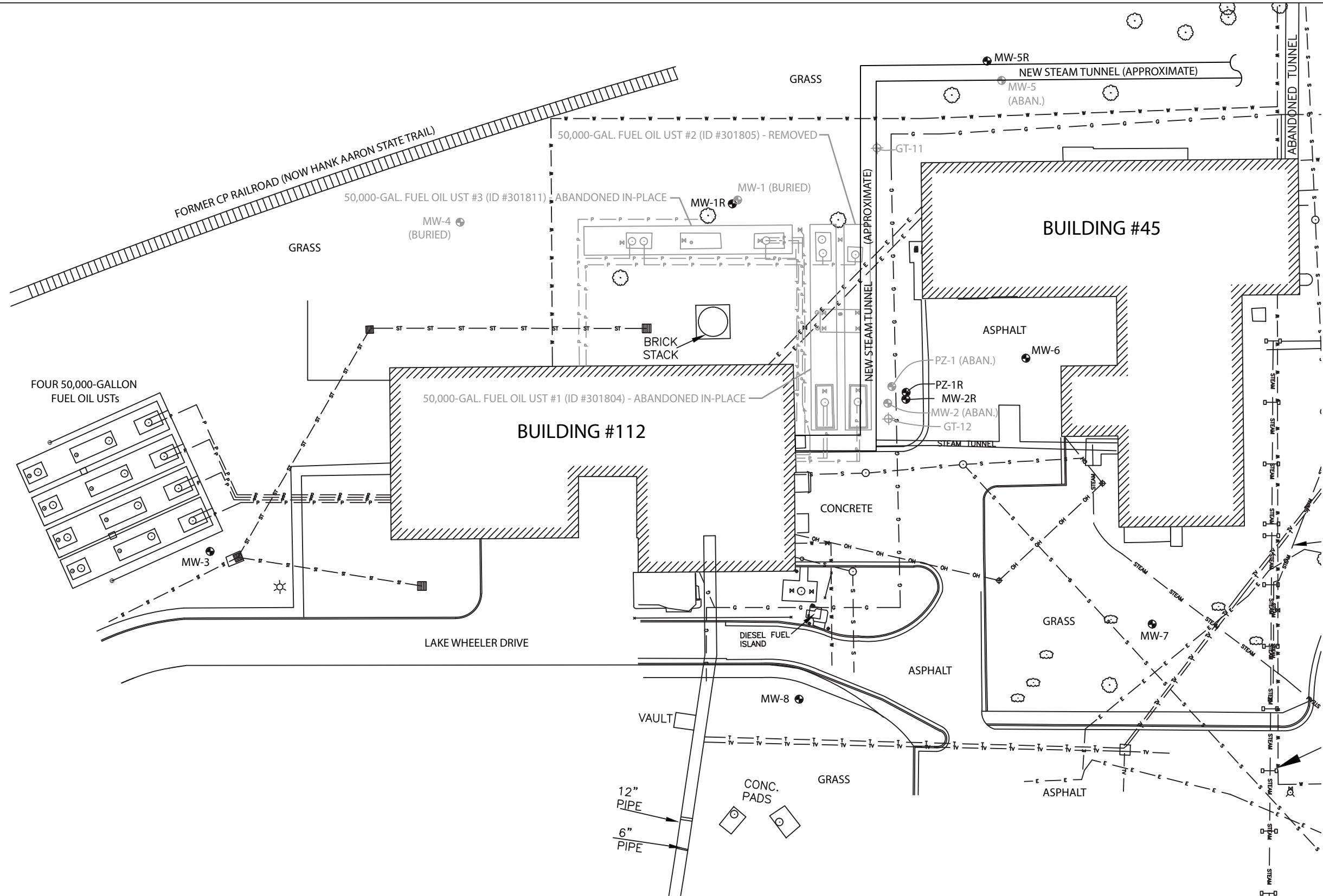
5/2/2012  
Date



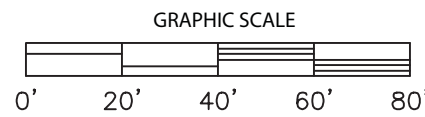
SE ¼ of the NW ¼ and NE ¼ of the SW ¼ of Sec. 35, T 7 N, R 21 E. Adapted from U.S.G.S. 7.5 minute series, Milwaukee, Wisconsin, quadrangle dated 1958 (photorevised 1971).



**Figure 1. Site Location Map**  
 VA Medical Center  
 5000 W. National Ave., Milwaukee, WI

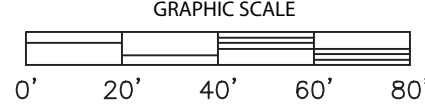
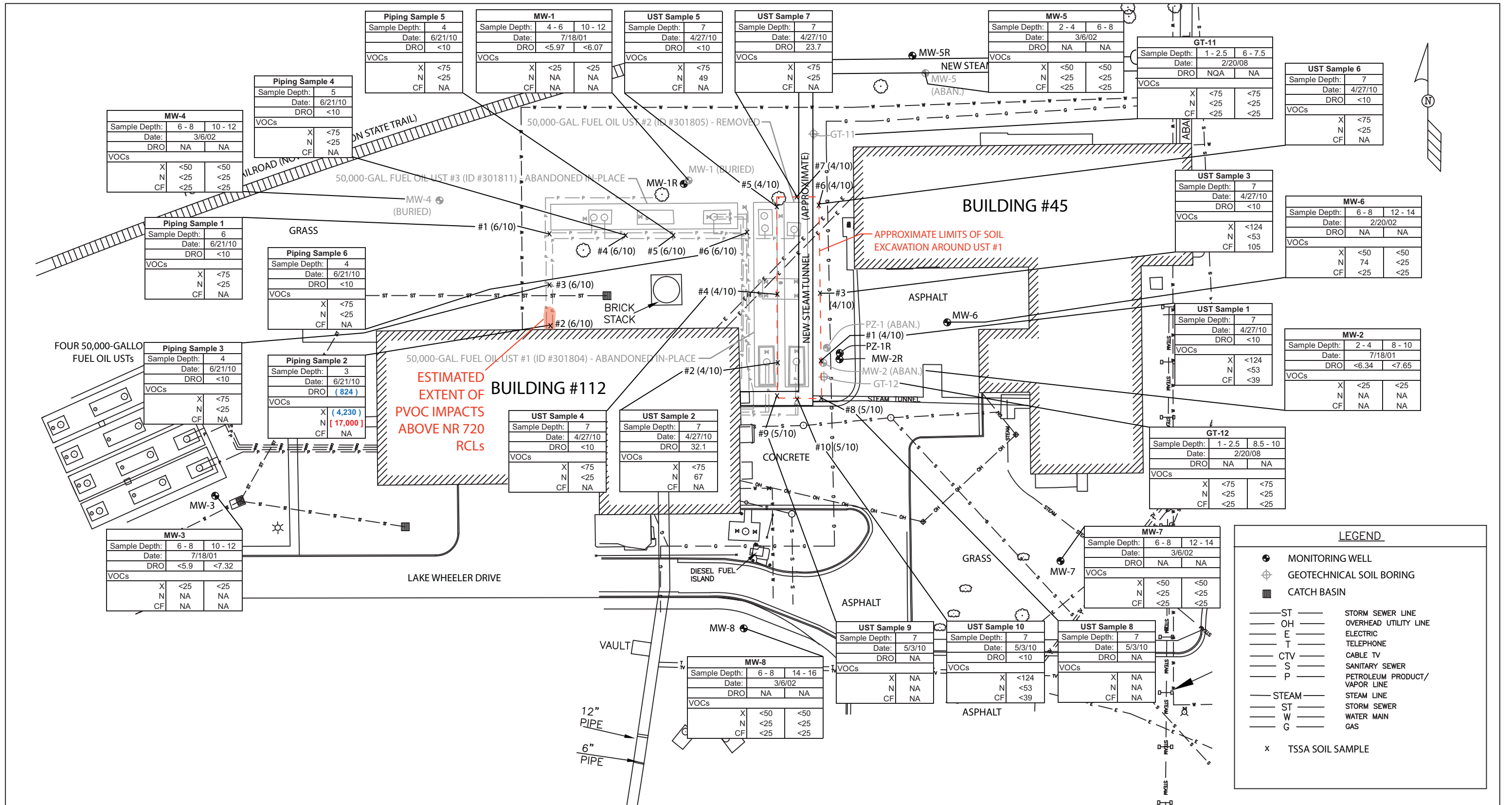


LEGEND	
	MONITORING WELL
	GEOTECHNICAL SOIL BORING
	CATCH BASIN
	STORM SEWER LINE
	OVERHEAD UTILITY LINE
	ELECTRIC
	TELEPHONE
	CABLE TV
	SANITARY SEWER
	PETROLEUM PRODUCT/ VAPOR LINE
	STEAM LINE
	STORM SEWER
	WATER MAIN
	GAS



Notes:  
 1. Original site map based on survey performed by Sigma Development, Inc.  
 2. Existing and replacement monitoring wells resurveyed by Sigma Development, Inc. in January 2012.

<b>V. A. MEDICAL CENTER BUILDING #112</b> 5000 W. NATIONAL AVENUE, MILWAUKEE, WISCONSIN			 <small>www.thesigmagroup.com          1300 West Canal Street          Milwaukee, WI 53233          414-643-4200</small>
DATE: 01/09/2012	AJR	12700 Env Base Map 2012.pdf	
<b>SITE PLAN MAP</b>			SCALE: 1"=40'  <b>FIGURE 1</b>



**ANALYTICAL KEY**

DRO = DIESEL RANGE ORGANICS (mg/kg)  
 X = XYLENES, TOTAL (µg/kg)  
 N = NAPHTHALENE (µg/kg)  
 CF = CHLOROFORM (µg/kg)  
 NA = NOT ANALYZED

( ) = CONCENTRATION EXCEEDS NR 720 RCL FOR PROTECTION OF GROUNDWATER  
 [ ] = CONCENTRATION EXCEEDS NR 746 TABLE 1 VALUE

**V. A. MEDICAL CENTER BUILDING #112**  
**5000 W. NATIONAL AVENUE, MILWAUKEE, WISCONSIN**

DATE: 04/24/2012 | AJR | 12700 Env Base Map 2012.pdf

**SOIL QUALITY MAP**

**FIGURE 2**

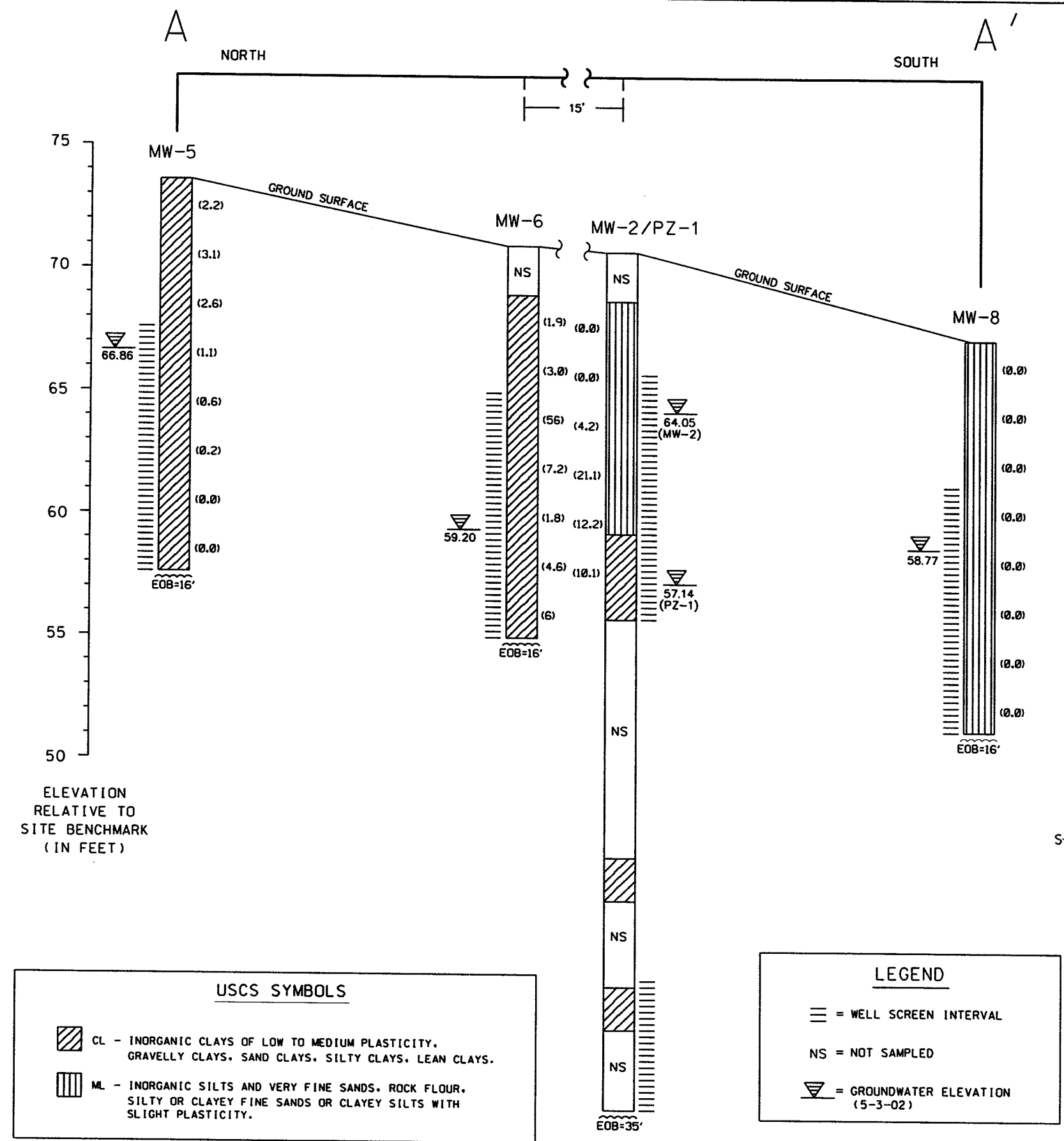
SCALE: 1"=40'

**SIGMA** GROUP  
 Single Source. Sound Solutions.  
 www.thesigmagroup.com  
 1300 West Canal Street  
 Milwaukee, WI 53233  
 414-643-4200

Notes:

- Original site map based on survey performed by Sigma Development, Inc.
- Existing and replacement monitoring wells resurveyed by Sigma Development, Inc. in January 2012.

K:\VA\_MED\6849-008.dwg, FIG 4 GCSM, 4/14/2008 2:49:11 PM, 11x17, 1:1

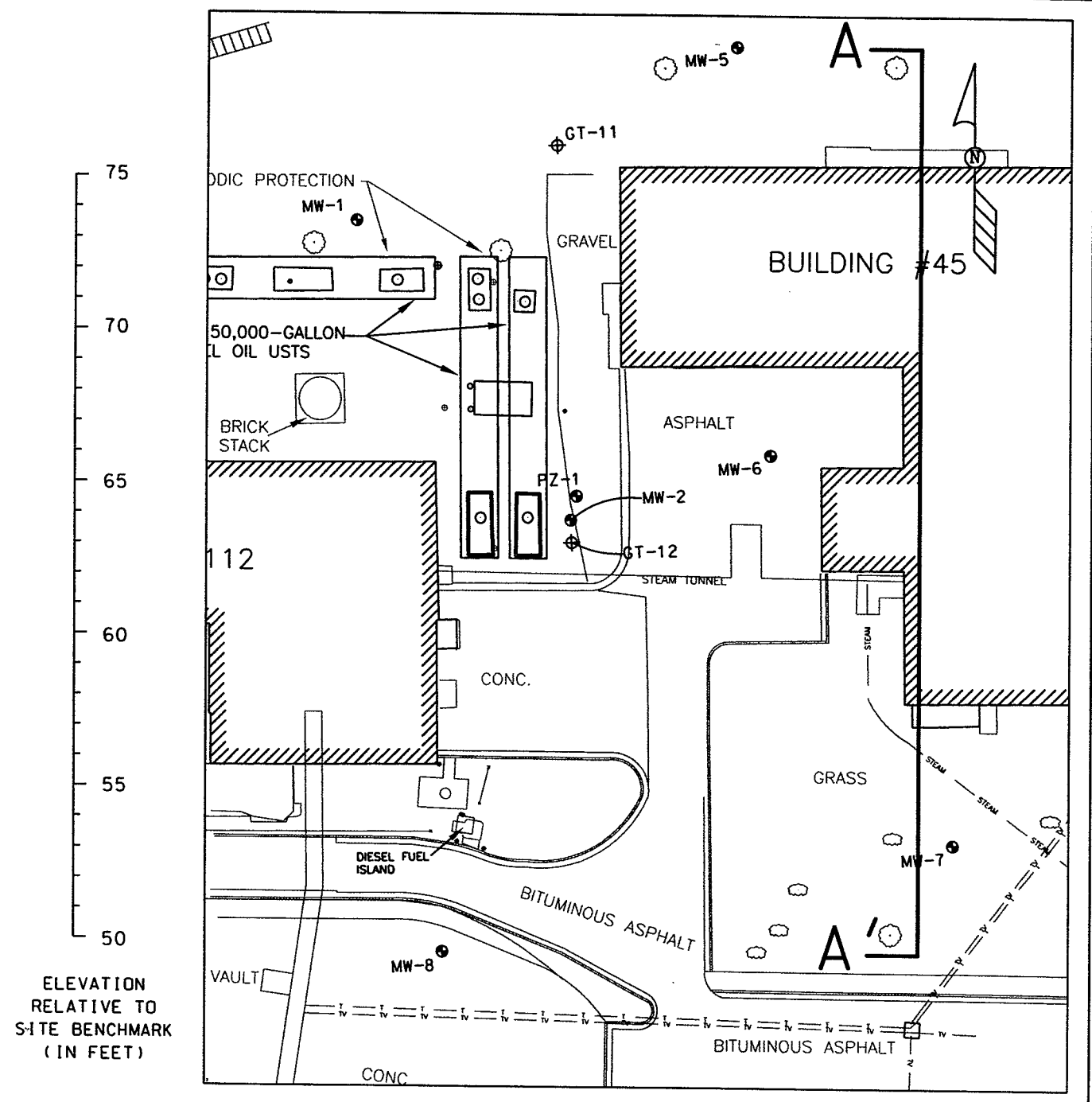


ELEVATION  
RELATIVE TO  
SITE BENCHMARK  
(IN FEET)

USCS SYMBOLS	
	CL - INORGANIC CLAYS OF LOW TO MEDIUM PLASTICITY. GRAVELLY CLAYS. SAND CLAYS. SILTY CLAYS. LEAN CLAYS.
	ML - INORGANIC SILTS AND VERY FINE SANDS. ROCK FLOUR. SILTY OR CLAYEY FINE SANDS OR CLAYEY SILTS WITH SLIGHT PLASTICITY.

LEGEND	
	= WELL SCREEN INTERVAL
NS	= NOT SAMPLED
	= GROUNDWATER ELEVATION (5-3-02)

NOTES:  
 1. HORIZONTAL SCALE 1" = 20'. VERTICAL SCALE 1" = 2.5'.  
 2. ( ) = PHOTOIONIZATION DETECTOR (PID) VALUE SHOWN IN PARTS PER MILLION (ppm).

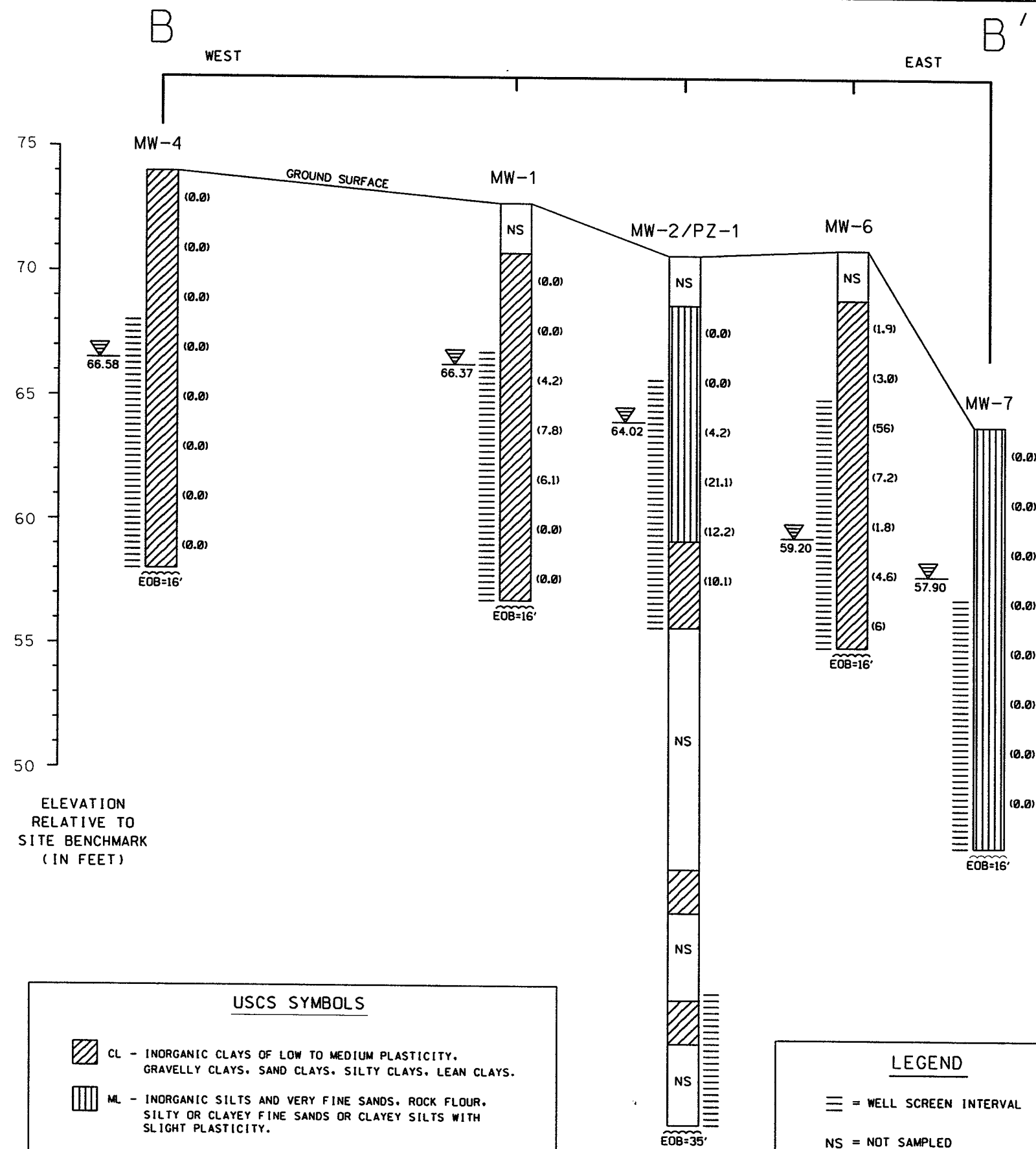


ELEVATION  
RELATIVE TO  
SITE BENCHMARK  
(IN FEET)

GEOLOGIC CROSS SECTION LOCATION  
SCALE: 1" = 40'

<b>VETERANS MEDICAL CENTER BUILDING #112</b> 5000 W. NATIONAL AVENUE, MILWAUKEE, WISCONSIN			 www.thesigmagroup.com 1300 West Canal Street Milwaukee, WI 53233 414-643-4200
DATE: 03/05/08	DR. BY: RML	6849-008	
<b>GEOLOGIC CROSS SECTION A-A'</b>			SCALE: SEE NOTES
			<b>Figure 4</b>

K:\VA\_MED\6849-008.dwg, FIG 5 GCSM, 4/14/2008 2:49:35 PM, 11x17, 1:1

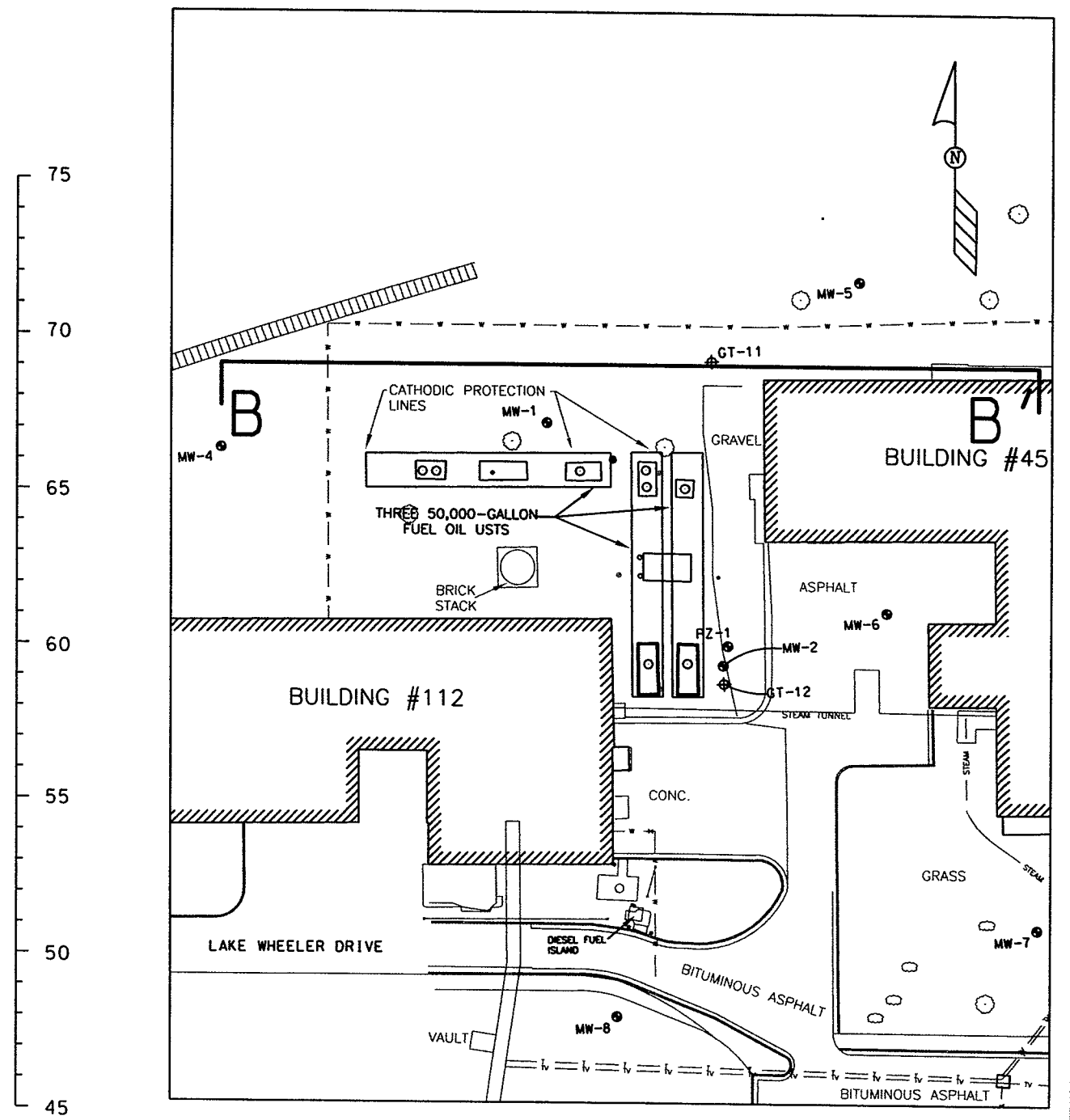


ELEVATION  
RELATIVE TO  
SITE BENCHMARK  
(IN FEET)

USCS SYMBOLS	
	CL - INORGANIC CLAYS OF LOW TO MEDIUM PLASTICITY, GRAVELLY CLAYS, SAND CLAYS, SILTY CLAYS, LEAN CLAYS.
	ML - INORGANIC SILTS AND VERY FINE SANDS, ROCK FLOUR, SILTY OR CLAYEY FINE SANDS OR CLAYEY SILTS WITH SLIGHT PLASTICITY.

NOTES:  
 1. HORIZONTAL SCALE 1" = 20', VERTICAL SCALE 1" = 2.5'.  
 2. ( ) = PHOTOIONIZATION DETECTOR (PID) VALUE SHOWN IN PARTS PER MILLION (ppm).

LEGEND	
	= WELL SCREEN INTERVAL
NS	= NOT SAMPLED
	= GROUNDWATER ELEVATION (5-3-02)



ELEVATION  
RELATIVE TO  
SITE BENCHMARK  
(IN FEET)

GEOLOGIC CROSS SECTION LOCATION  
SCALE: 1" = 50'

<b>VETERANS MEDICAL CENTER BUILDING #112</b> 5000 W. NATIONAL AVENUE, MILWAUKEE, WISCONSIN			 www.thesigmagroup.com 1300 West Canal Street Milwaukee, WI 53233 414-643-4200
DATE: 03/05/08	DR. BY: RML	6849-008	
<b>GEOLOGIC CROSS SECTION B-B'</b>			SCALE: SEE NOTES
			<b>Figure 5</b>



**ANALYTICAL KEY**

BCM = BROMODICHLOROMETHANE  
 CT = CARBON TETRACHLORIDE  
 CF = CHLOROFORM  
 1,1,2,2-PCA = 1,1,2,2-TETRACHLOROETHANE  
 PCE = TETRACHLOROETHENE  
 TCE = TRICHLOROETHENE  
 NA = NOT ANALYZED

( ) = CONCENTRATION REPORTED ABOVE NR 140 PREVENTIVE ACTION LIMIT  
 [ ] = CONCENTRATION REPORTED ABOVE NR 140 ENFORCEMENT STANDARD

ALL CONCENTRATIONS REPORTED IN MICROGRAMS PER LITER (µg/L)

Date:	MW-1						MW-1R	
	2/28/05	5/9/05	9/1/05	11/30/05	3/14/06	6/21/06	1/4/12	3/20/12
VOCs								
BCM	[1.3]	<0.28	<0.28	<0.28	<0.28	<0.82	<0.68	<0.68
CT	(0.7)	<0.25	<0.25	0.48J	<0.25	<0.52	<0.47	<0.47
CF	[43]	[11]	[13]	[32]	[52]	[7.4]	<0.49	(0.76)
1,1,2,2-PCA	<0.29	<0.29	<0.29	<0.39	<0.29	<0.89	<0.53	<0.53
PCE	<0.45	<0.45	<0.45	<0.45	<0.45	<0.37	<0.44	<0.44
TCE	<0.37	<0.37	<0.37	<0.37	<0.37	<0.39	<0.47	<0.47

Date:	MW-5						MW-5R	
	2/28/05	5/9/05	9/1/05	11/30/05	3/14/06	6/21/06	12/19/11	3/20/12
VOCs								
BCM	<0.28	<0.28	<0.35	<0.28	<0.28	<0.82	<0.68	<0.68
CT	<0.25	<0.25	<0.25	<0.25	<0.25	<0.52	<0.47	<0.47
CF	<0.78	<0.78	<0.78	<0.78	<0.78	<0.61	<0.49	<0.49
1,1,2,2-PCA	<0.29	<0.29	<0.29	<0.29	<0.29	<0.89	<0.53	<0.53
PCE	<0.45	<0.45	<0.45	<0.45	<0.45	<0.37	<0.44	<0.44
TCE	<0.37	<0.37	<0.37	<0.37	<0.37	<0.39	<0.47	<0.47

Date:	MW-4						12/19/11	3/20/12
	2/28/05	5/9/05	9/1/05	11/30/05	11/30/05	6/21/06		
VOCs								
BCM	<0.28	<0.28	<0.28	<0.28	<0.28	<0.82	Well Buried	Well Buried
CT	<0.25	<0.25	<0.25	<0.25	<0.25	<0.52		
CF	<0.78	<0.78	<0.78	<0.78	<0.78	<0.61		
1,1,2,2-PCA	<0.29	<0.29	<0.29	<0.29	<0.29	<0.89		
PCE	<0.45	<0.45	<0.45	<0.45	<0.45	<0.37		
TCE	<0.37	<0.37	<0.37	<0.37	<0.37	<0.39		

Date:	MW-6							
	2/28/05	5/9/05	9/1/05	11/30/05	3/14/06	6/21/06	12/19/11	3/20/12
VOCs								
BCM	<0.28	<0.28	<0.28	<0.28	<0.28	<0.82	<0.68	<0.68
CT	<0.25	<0.25	<0.25	<0.25	<0.25	<0.52	<0.47	<0.47
CF	<0.78	<0.78	<0.78	<0.78	<0.78	<0.61	<0.49	<0.49
1,1,2,2-PCA	<0.29	<0.29	<0.29	<0.29	<0.29	<0.89	<0.53	<0.53
PCE	<0.45	<0.45	<0.45	<0.45	<0.45	<0.37	<0.44	<0.44
TCE	<0.37	<0.37	<0.37	<0.37	<0.37	<0.39	<0.47	<0.47

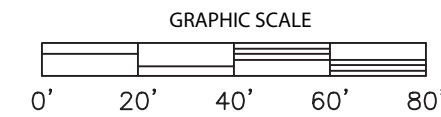
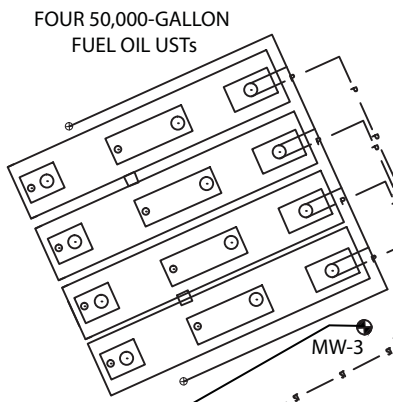
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	2/28/05	5/9/05	9/1/05	11/30/05	3/14/06	6/21/06	12/19/11	3/20/12
VOCs								
BCM	<0.28	<0.28	<0.28	<0.28	<0.28	<0.82	<0.68	<0.68
CT	<0.25	<0.25	<0.25	<0.25	<0.25	<0.52	<0.47	<0.47
CF	<0.78	<0.78	<0.78	<0.78	(0.80)	<0.61	<0.49	<0.49
1,1,2,2-PCA	<0.29	<0.29	<0.29	<0.29	<0.29	<0.89	<0.53	<0.53
PCE	<0.45	<0.45	<0.45	<0.45	<0.45	<0.37	<0.44	<0.44
TCE	<0.37	<0.37	<0.37	<0.37	<0.37	<0.39	<0.47	<0.47

Date:	MW-2						MW-2R	
	2/28/05	5/9/05	9/1/05	11/30/05	3/14/06	6/21/06	12/19/11	3/20/12
VOCs								
BCM	[105]	[78]	[107]	[63]	[44]	[45]	<0.68	<3.4
CT	[34]	[40]	[23]	[18]	<12.5	<26	[22.3]	[29.5]
CF	[5,100]	[3,600]	[5,740]	[5,700]	[3,800]	[4,600]	[218]	[320]
1,1,2,2-PCA	[1.3]	[1.5]	<14.5	<14.5	<14.5	<44.5	<0.53	<2.65
PCE	[25]	[13]	<22.5	<22.5	<22.5	<18.5	<0.44	<2.2
TCE	[21]	[16]	[24]	[24]	<18.5	[21.5]	<0.47	<2.35

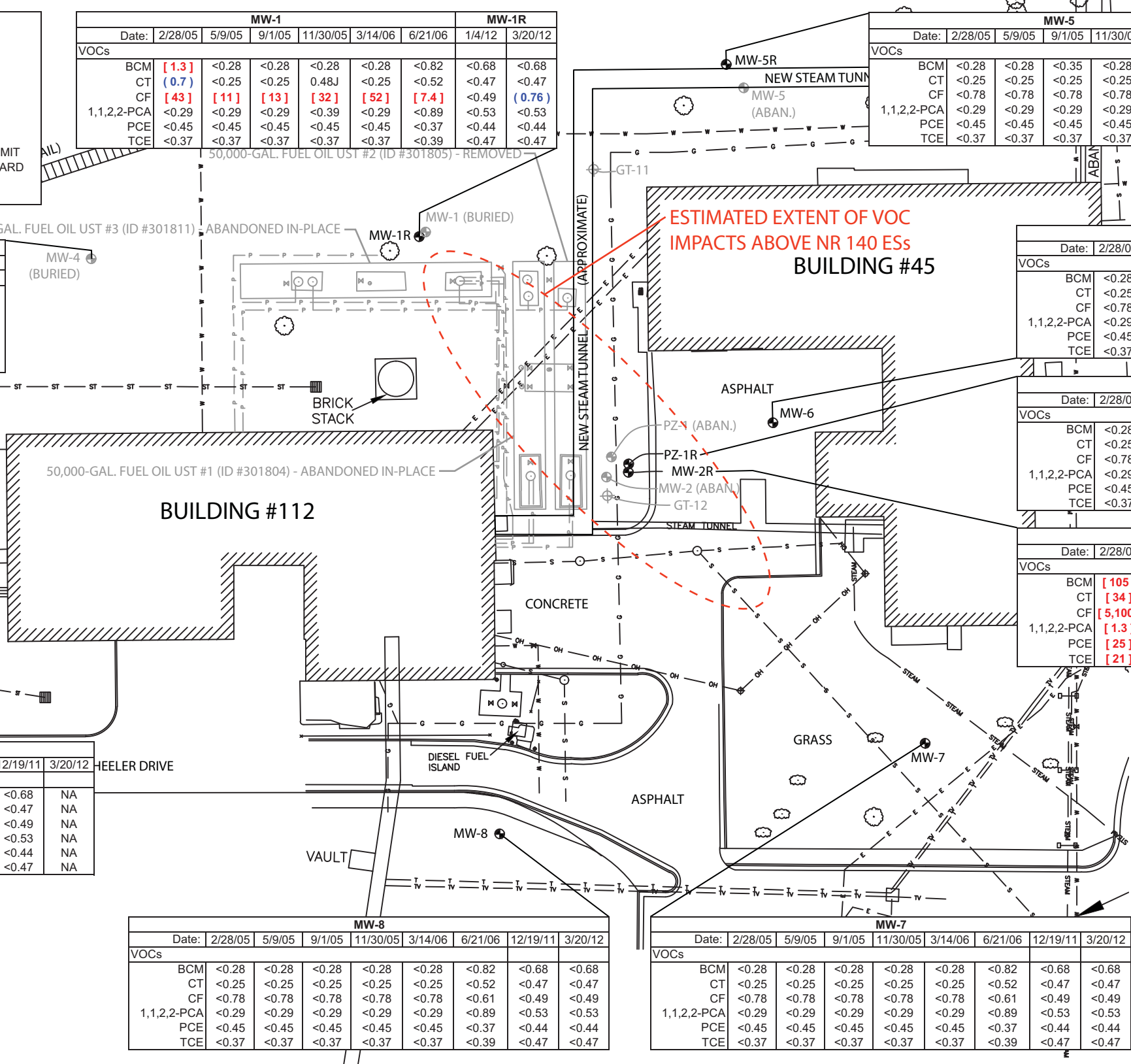
Date:	MW-3							
	2/28/05	5/9/05	9/1/05	11/30/05	3/14/06	6/21/06	12/19/11	3/20/12
VOCs								
BCM	<0.28	<0.28	<0.28	<0.28	<0.28	<0.82	<0.68	NA
CT	<0.25	<0.25	<0.25	<0.25	<0.25	<0.52	<0.47	NA
CF	<0.78	<0.78	<0.78	<0.78	<0.78	<0.61	<0.49	NA
1,1,2,2-PCA	<0.29	<0.29	<0.29	<0.29	<0.29	<0.89	<0.53	NA
PCE	<0.45	<0.45	<0.45	<0.45	<0.45	<0.37	<0.44	NA
TCE	<0.37	<0.37	<0.37	<0.37	<0.37	<0.39	<0.47	NA

Date:	MW-8							
	2/28/05	5/9/05	9/1/05	11/30/05	3/14/06	6/21/06	12/19/11	3/20/12
VOCs								
BCM	<0.28	<0.28	<0.28	<0.28	<0.28	<0.82	<0.68	<0.68
CT	<0.25	<0.25	<0.25	<0.25	<0.25	<0.52	<0.47	<0.47
CF	<0.78	<0.78	<0.78	<0.78	<0.78	<0.61	<0.49	<0.49
1,1,2,2-PCA	<0.29	<0.29	<0.29	<0.29	<0.29	<0.89	<0.53	<0.53
PCE	<0.45	<0.45	<0.45	<0.45	<0.45	<0.37	<0.44	<0.44
TCE	<0.37	<0.37	<0.37	<0.37	<0.37	<0.39	<0.47	<0.47

Date:	MW-7							
	2/28/05	5/9/05	9/1/05	11/30/05	3/14/06	6/21/06	12/19/11	3/20/12
VOCs								
BCM	<0.28	<0.28	<0.28	<0.28	<0.28	<0.82	<0.68	<0.68
CT	<0.25	<0.25	<0.25	<0.25	<0.25	<0.52	<0.47	<0.47
CF	<0.78	<0.78	<0.78	<0.78	<0.78	<0.61	<0.49	<0.49
1,1,2,2-PCA	<0.29	<0.29	<0.29	<0.29	<0.29	<0.89	<0.53	<0.53
PCE	<0.45	<0.45	<0.45	<0.45	<0.45	<0.37	<0.44	<0.44
TCE	<0.37	<0.37	<0.37	<0.37	<0.37	<0.39	<0.47	<0.47



- Notes:
- Original site map based on survey performed by Sigma Development, Inc.
  - Existing and replacement monitoring wells resurveyed by Sigma Development, Inc. in January 2012.



**LEGEND**

- MONITORING WELL
- ⊕ GEOTECHNICAL SOIL BORING
- CATCH BASIN
- ST — STORM SEWER LINE
- OH — OVERHEAD UTILITY LINE
- E — ELECTRIC
- T — TELEPHONE
- CTV — CABLE TV
- S — SANITARY SEWER
- P — PETROLEUM PRODUCT/VAPOR LINE
- STEAM — STEAM LINE
- ST — STORM SEWER
- W — WATER MAIN
- G — GAS

V. A. MEDICAL CENTER BUILDING #112  
 5000 W. NATIONAL AVENUE, MILWAUKEE, WISCONSIN

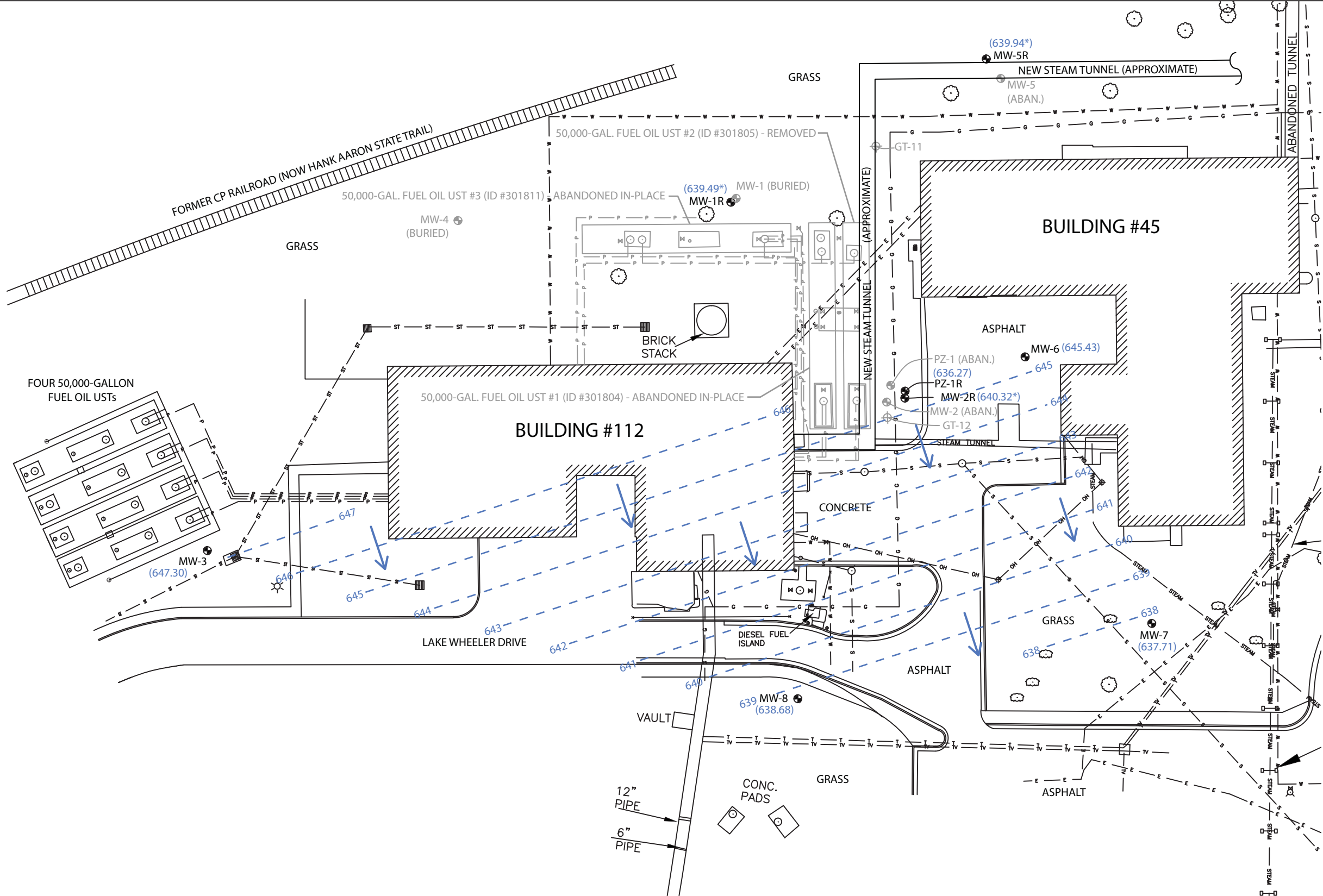
DATE: 03/28/2012 | AJR | 12700 Env Base Map 2012.pdf

**GROUNDWATER QUALITY MAP**

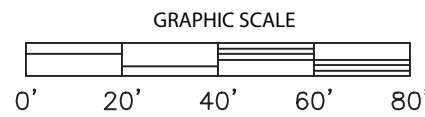
SCALE: 1"=40'

**FIGURE 6**

**THE SIGMA GROUP**  
 www.thesigmagroup.com  
 1300 West Canal Street  
 Milwaukee, WI 53233  
 414-643-4200



LEGEND	
	MONITORING WELL
	GEOTECHNICAL SOIL BORING
	CATCH BASIN
	STORM SEWER LINE
	OVERHEAD UTILITY LINE
	ELECTRIC
	TELEPHONE
	CABLE TV
	SANITARY SEWER
	PETROLEUM PRODUCT/ VAPOR LINE
	STEAM LINE
	STORM SEWER
	WATER MAIN
	GAS
	STATIC GROUNDWATER LEVEL (12-19-11)
	GROUNDWATER CONTOUR LINE (1' INT.)
	GROUNDWATER FLOW DIRECTION



Notes:

1. Original site map based on survey performed by Sigma Development, Inc.
2. Existing and replacement monitoring wells resurveyed by Sigma Development, Inc. in January 2012.
3. \* = Water levels in monitoring wells MW-1R, MW-2R, and MW-5R do not appear to be static based on historic groundwater elevation data and are not included in contours.

V. A. MEDICAL CENTER BUILDING #112  
 5000 W. NATIONAL AVENUE, MILWAUKEE, WISCONSIN

DATE: 01/09/2012 | AJR | 12700 Env Base Map 2012.pdf

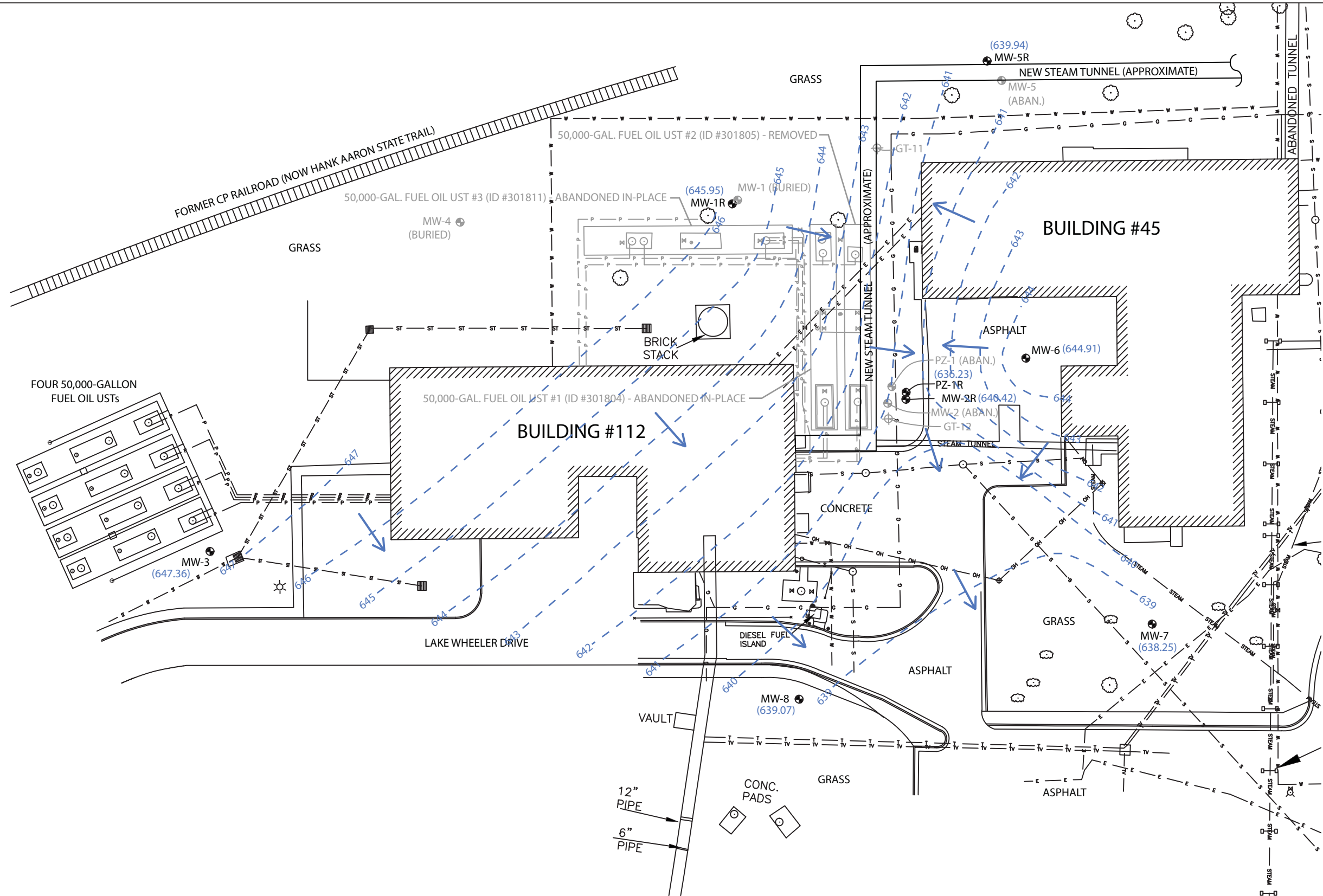
**GROUNDWATER CONTOUR MAP**  
 (12-19-11)

**THE SIGMA GROUP**  
 Single Source. Sound Solutions.

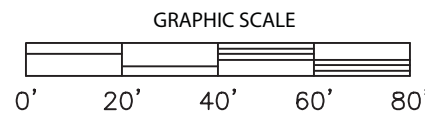
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 1300 West Canal Street  
 Milwaukee, WI 53233  
 414-643-4200

SCALE: 1"=40'

**FIGURE 4**



LEGEND	
	MONITORING WELL
	GEOTECHNICAL SOIL BORING
	CATCH BASIN
	STORM SEWER LINE
	OVERHEAD UTILITY LINE
	ELECTRIC
	TELEPHONE
	CABLE TV
	SANITARY SEWER
	PETROLEUM PRODUCT/ VAPOR LINE
	STEAM LINE
	STORM SEWER
	WATER MAIN
	GAS
	STATIC GROUNDWATER LEVEL (3-20-12)
	GROUNDWATER CONTOUR LINE (1' INT.)
	GROUNDWATER FLOW DIRECTION



Notes:  
 1. Original site map based on survey performed by Sigma Development, Inc.  
 2. Existing and replacement monitoring wells resurveyed by Sigma Development, Inc. in January 2012.

V. A. MEDICAL CENTER BUILDING #112  
 5000 W. NATIONAL AVENUE, MILWAUKEE, WISCONSIN

DATE: 03/28/2012 | AJR | 12700 Env Base Map 2012.pdf

**GROUNDWATER CONTOUR MAP**  
 (3-20-12)

**THE SIGMA GROUP**  
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 Milwaukee, WI 53233  
 414-643-4200

SCALE: 1"=40'

**FIGURE 5**

**Table 1A**  
**Soil Quality Results**  
**V. A. Medical Center Building #112 - 5000 W. National Avenue, Milwaukee, Wisconsin**  
**Project Reference #12700**

Soil Sample Location:		MW - 1		MW - 2		MW - 3		MW-4		MW-5		NR 720 RCLs	NR 746 Table 1	NR 746 Table 2
Sample Depth (feet bgs):		4 - 6	10-12	2 - 4	8 - 10	6 - 8	10 - 12	6-8	10-12	2-4	6-8			
Date:		07/18/01		07/18/01		07/18/01		03/06/02		03/06/02				
Organic Vapor Monitor	ppm	0	6.1	0	21.1	14.2	0	0	0	3.1	1.1			
GRO	mg/kg	<5.97	<6.07	<6.34	<7.65	<5.9	<7.32	NA	NA	NA	NA	100	NS	NS
DRO	mg/kg	<5.97	<6.07	<6.34	<7.65	<5.9	<7.32	NA	NA	NA	NA	100	NS	NS
<b>PVOCs</b>														
Benzene	µg/kg	<25	<25	<25	<25	<25	<25	<25	<25	<25	<25	5.5	8,500	1,100
Ethylbenzene	µg/kg	<25	<25	<25	<25	<25	<25	<25	<25	<25	<25	2,900	4,600	NS
Methyl Tert Butyl Ether	µg/kg	<25	<25	<25	<25	<25	<25	<25	<25	<25	<25	NS	NS	NS
Toluene	µg/kg	<25	<25	<25	<25	<25	<25	<25	<25	<25	<25	1,500	38,000	NS
1,2,4-Trimethylbenzene	µg/kg	<25	<25	<25	<25	<25	<25	<25	<25	<25	<25	NS	83,000	NS
1,3,5-Trimethylbenzene	µg/kg	<25	<25	<25	<25	<25	<25	<25	<25	<25	<25	NS	11,000	NS
Total Xylenes	µg/kg	<25	<25	<25	<25	<25	<25	<50	<50	<50	<50	4,100	42,000	NS
Naphthalene	µg/kg	NA	NA	NA	NA	NA	NA	<25	<25	<25	<25	NS	2,700	NS
<b>Other VOCs</b>														
Bromodichloromethane	µg/kg	NA	NA	NA	NA	NA	NA	<25	<25	<25	<25	NS	NS	NS
Carbon Tetrachloride	µg/kg	NA	NA	NA	NA	NA	NA	<25	<25	<25	<25	NS	NS	NS
Chloroethane	µg/kg	NA	NA	NA	NA	NA	NA	<25	<25	<25	<25	NS	NS	NS
Chloroform	µg/kg	NA	NA	NA	NA	NA	NA	<25	<25	<25	<25	NS	NS	NS
Chloromethane	µg/kg	NA	NA	NA	NA	NA	NA	<25	<25	<25	<25	NS	NS	NS
Dibromochloromethane	µg/kg	NA	NA	NA	NA	NA	NA	<25	<25	<25	<25	NS	NS	NS
1,2-Dibromo-3-chloropropane	µg/kg	NA	NA	NA	NA	NA	NA	<100	<100	<100	<100	NS	NS	NS
1,1-Dichloroethane	µg/kg	NA	NA	NA	NA	NA	NA	<25	<25	<25	<25	NS	NS	NS
1,2-Dichloropropane	µg/kg	NA	NA	NA	NA	NA	NA	<25	<25	<25	<25	NS	NS	NS
Methylene Chloride	µg/kg	NA	NA	NA	NA	NA	NA	<25	<25	<25	<25	NS	NS	NS
1,1,2,2-Tetrachloroethane	µg/kg	NA	NA	NA	NA	NA	NA	<25	<25	<25	<25	NS	NS	NS
Tetrachloroethane	µg/kg	NA	NA	NA	NA	NA	NA	<25	<25	<25	<25	NS	NS	NS
1,1,2-Trichloroethane	µg/kg	NA	NA	NA	NA	NA	NA	<25	<25	<25	<25	NS	NS	NS
Trichloroethane	µg/kg	NA	NA	NA	NA	NA	NA	<25	<25	<25	<25	NS	NS	NS

**Notes:**

1. mg/kg = milligrams per kilogram (equivalent to parts per million, ppm)
2. µg/mg = micrograms per kilogram (equivalent to parts per billion, ppb)
3. NA = not analyzed
4. NR 720 RCLs = Wisconsin Administrative Code, Chapter NR 720.09 generic Residual Contaminant Level for protection of groundwater
5. NR 746 Table 1 = Wisconsin Administrative Code, Chapter NR 746.06 Table 1 ("Indicators of Residual Petroleum Product in Soil Pores") soil screening levels
6. NR 720 Table 2 = Wisconsin Administrative Code, Chapter NR 746.06 Table 2 ("Protection of Human Health from Direct Contact with Contaminated Soil") concentrations
7. NS = no standard established

**Table 1A**  
**Soil Quality Results**  
**V. A. Medical Center Building #112 - 5000 W. National Avenue, Milwaukee, Wisconsin**  
**Project Reference #12700**

Soil Sample Location:		MW-6		MW-7		MW-8		GT-11		GT-12		NR 720 RCLs	NR 746 Table 1	NR 746 Table 2
Sample Depth (feet bgs):		6-8	12-14	6-8	12-14	6-8	14-16	1-2.5	6-7.5	1-2.5	8.5-10			
Date:		02/20/02		03/06/02		03/06/02		02/20/08		02/20/08				
Organic Vapor Monitor	ppm	56	4.6	0	0	0	0	1.6	1.6	1.6	1.6			
GRO	mg/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	100	NS	NS
DRO	mg/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	100	NS	NS
<b>PVOCs</b>														
Benzene	µg/kg	<25	<25	<25	<25	<25	<25	<25	<25	<25	<25	5.5	8,500	1,100
Ethylbenzene	µg/kg	<25	<25	<25	<25	<25	<25	<25	<25	<25	<25	2,900	4,600	NS
Methyl Tert Butyl Ether	µg/kg	<25	<25	<25	<25	<25	<25	<25	<25	<25	<25	NS	NS	NS
Toluene	µg/kg	<25	<25	<25	<25	<25	<25	<25	<25	<25	<25	1,500	38,000	NS
1,2,4-Trimethylbenzene	µg/kg	<25	<25	<25	<25	<25	<25	<25	<25	<25	<25	NS	83,000	NS
1,3,5-Trimethylbenzene	µg/kg	<25	<25	<25	<25	<25	<25	<25	<25	<25	<25	NS	11,000	NS
Total Xylenes	µg/kg	<50	<50	<50	<50	<50	<50	<75	<75	<75	<75	4,100	42,000	NS
Naphthalene	µg/kg	74	<25	<25	<25	<25	<25	<25	<25	<25	<25	NS	2,700	NS
<b>Other VOCs</b>														
Bromodichloromethane	µg/kg	<25	<25	<25	<25	<25	<25	<25	<25	<25	<25	NS	NS	NS
Carbon Tetrachloride	µg/kg	<25	<25	<25	<25	<25	<25	<25	<25	<25	<25	NS	NS	NS
Chloroethane	µg/kg	<25	<25	<25	<25	<25	<25	<25	<25	<25	<25	NS	NS	NS
Chloroform	µg/kg	<25	<25	<25	<25	<25	<25	<25	<25	<25	<25	NS	NS	NS
Chloromethane	µg/kg	<25	<25	<25	<25	<25	<25	<25	<25	<25	<25	NS	NS	NS
Dibromochloromethane	µg/kg	<25	<25	<25	<25	<25	<25	<25	<25	<25	<25	NS	NS	NS
1,2-Dibromo-3-chloropropane	µg/kg	<100	<100	<100	<100	<100	<100	<25	<25	<25	<25	NS	NS	NS
1,1-Dichloroethane	µg/kg	<25	<25	<25	<25	<25	<25	<25	<25	<25	<25	NS	NS	NS
1,2-Dichloropropane	µg/kg	<25	<25	<25	<25	<25	<25	<25	<25	<25	<25	NS	NS	NS
Methylene Chloride	µg/kg	<25	<25	<25	<25	<25	<25	<25	<25	<25	<25	NS	NS	NS
1,1,2,2-Tetrachloroethane	µg/kg	<25	<25	<25	<25	<25	<25	<25	<25	<25	<25	NS	NS	NS
Tetrachloroethane	µg/kg	<25	<25	<25	<25	<25	<25	<25	<25	<25	<25	NS	NS	NS
1,1,2-Trichloroethane	µg/kg	<25	<25	<25	<25	<25	<25	<25	<25	<25	<25	NS	NS	NS
Trichloroethane	µg/kg	<25	<25	<25	<25	<25	<25	<25	<25	<25	<25	NS	NS	NS

**Notes:**

1. mg/kg = milligrams per kilogram (equivalent to parts per million, ppm)
2. µg/mg = micrograms per kilogram (equivalent to parts per billion, ppb)
3. NA = not analyzed
4. NR 720 RCLs = Wisconsin Administrative Code, Chapter NR 720.09 generic Residual Contaminant Level for protection of groundwater
5. NR 746 Table 1 = Wisconsin Administrative Code, Chapter NR 746.06 Table 1 ("Indicators of Residual Petroleum Product in Soil Pores") soil screening levels
6. NR 720 Table 2 = Wisconsin Administrative Code, Chapter NR 746.06 Table 2 ("Protection of Human Health from Direct Contact with Contaminated Soil") concentrations
7. NS = no standard established

**Table 1B**  
**TSSA Soil Quality Results - UST**  
**V. A. Medical Center Building #112 - 5000 W. National Avenue, Milwaukee, Wisconsin**  
**Project Reference #12700**

Soil Sample Location:		1	2	3	4	5	6	7	8	9	10	NR 720 RCLs	NR 746 Table 1	NR 746 Table 2	
Sample Depth (feet bgs):		7	7	7	7	7	7	7	7	7	10				
Date:		04/27/10	04/27/10	04/27/10	04/27/10	04/27/10	04/27/10	04/27/10	05/03/10	05/03/10	05/03/10				
Organic Vapor Monitor	ppm	0	0	0	0	0	0	0	0	0	0				
GRO	mg/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	100	NS	NS	
DRO	mg/kg	<10	32.1	<10	<10	<10	<10	<10	23.7	NA	NA	100	NS	NS	
<b>PVOCs</b>															
Benzene	µg/kg	<35	<25	<35	<25	<25	<25	<25	<25	NA	NA	<35	5.5	8,500	1,100
Ethylbenzene	µg/kg	<56	<25	<56	<25	<25	<25	<25	<25	NA	NA	<56	2,900	4,600	NS
Methyl Tert Butyl Ether	µg/kg	<27	<25	<27	<25	<25	<25	<25	<25	NA	NA	<27	NS	NS	NS
Toluene	µg/kg	<51	<25	<51	<25	<25	<25	<25	<25	NA	NA	<51	1,500	38,000	NS
1,2,4-Trimethylbenzene	µg/kg	<73	<25	<73	<25	<25	<25	<25	<25	NA	NA	<73	NS	83,000	NS
1,3,5-Trimethylbenzene	µg/kg	<57	<25	<57	<25	<25	<25	<25	<25	NA	NA	<57	NS	11,000	NS
Total Xylenes	µg/kg	<124	<75	<124	<75	<75	<75	<75	<75	NA	NA	<124	4,100	42,000	NS
Naphthalene	µg/kg	<53	67	<53	<25	49	<25	<25	<25	NA	NA	<53	NS	2,700	NS
<b>Other VOCs</b>															
Bromodichloromethane	µg/kg	<31	NA	<31	NA	NA	NA	NA	NA	NA	NA	<31	NS	NS	NS
Carbon Tetrachloride	µg/kg	<28	NA	<28	NA	NA	NA	NA	NA	NA	NA	<28	NS	NS	NS
Chloroethane	µg/kg	<80	NA	<80	NA	NA	NA	NA	NA	NA	NA	<80	NS	NS	NS
Chloroform	µg/kg	<39	NA	105 "J"	NA	NA	NA	NA	NA	NA	NA	<39	NS	NS	NS
Chloromethane	µg/kg	<43	NA	<43	NA	NA	NA	NA	NA	NA	NA	<43	NS	NS	NS
Dibromochloromethane	µg/kg	<42	NA	<42	NA	NA	NA	NA	NA	NA	NA	<42	NS	NS	NS
1,2-Dibromo-3-chloropropane	µg/kg	<67	NA	<67	NA	NA	NA	NA	NA	NA	NA	<67	NS	NS	NS
1,1-Dichloroethane	µg/kg	<45	NA	<45	NA	NA	NA	NA	NA	NA	NA	<45	NS	NS	NS
1,2-Dichloropropane	µg/kg	<38	NA	<38	NA	NA	NA	NA	NA	NA	NA	<38	NS	NS	NS
Methylene Chloride	µg/kg	<52	NA	<52	NA	NA	NA	NA	NA	NA	NA	<52	NS	NS	NS
1,1,2,2-Tetrachloroethane	µg/kg	<29	NA	<29	NA	NA	NA	NA	NA	NA	NA	<29	NS	NS	NS
Tetrachloroethane	µg/kg	<53	NA	<53	NA	NA	NA	NA	NA	NA	NA	<53	NS	NS	NS
1,1,2-Trichloroethane	µg/kg	<36	NA	<36	NA	NA	NA	NA	NA	NA	NA	<36	NS	NS	NS
Trichloroethane	µg/kg	<50	NA	<50	NA	NA	NA	NA	NA	NA	NA	<50	NS	NS	NS

Notes:

1. mg/kg = milligrams per kilogram (equivalent to parts per million, ppm)
2. µg/mg = micrograms per kilogram (equivalent to parts per billion, ppb)
3. NA = not analyzed
4. NR 720 RCLs = Wisconsin Administrative Code, Chapter NR 720.09 generic Residual Contaminant Level for protection of groundwater
5. NR 746 Table 1 = Wisconsin Administrative Code, Chapter NR 746.06 Table 1 ("Indicators of Residual Petroleum Product in Soil Pores") soil screening levels
6. NR 720 Table 2 = Wisconsin Administrative Code, Chapter NR 746.06 Table 2 ("Protection of Human Health from Direct Contact with Contaminated Soil") concentrations
7. NS = no standard established
8. Laboratory flags: "J" = Analyte detected between Limit of Detection and Limit of Quantitation

**Table 1B**  
**TSSA Soil Quality Results - Piping**  
**V. A. Medical Center Building #112 - 5000 W. National Avenue, Milwaukee, Wisconsin**  
**Project Reference #12700**

Soil Sample Location:		1	2	3	4	5	6	NR 720 RCLs	NR 746 Table 1	NR 746 Table 2
Sample Depth (feet bgs):		6	3	4	5	4	4			
Date:		06/21/10	06/21/10	06/21/10	06/21/10	06/21/10	06/21/10			
Organic Vapor Monitor	ppm	0	11	0	0	0	0			
GRO	mg/kg	NA	NA	NA	NA	NA	NA	100	NS	NS
DRO	mg/kg	<10	( 824 )	<10	<10	<10	<10	100	NS	NS
<b>PVOCs</b>										
Benzene	µg/kg	<25	<250	<25	<25	<25	<25	5.5	8,500	1,100
Ethylbenzene	µg/kg	<25	1,370	<25	<25	<25	<25	2,900	4,600	NS
Methyl Tert Butyl Ether	µg/kg	<25	<250	<25	<25	<25	<25	NS	NS	NS
Toluene	µg/kg	<25	394	<25	<25	<25	<25	1,500	38,000	NS
1,2,4-Trimethylbenzene	µg/kg	<25	9,850	<25	<25	<25	<25	NS	83,000	NS
1,3,5-Trimethylbenzene	µg/kg	<25	3,430	<25	<25	<25	<25	NS	11,000	NS
Total Xylenes	µg/kg	<75	( 4,230 )	<75	<75	<75	<75	4,100	42,000	NS
Naphthalene	µg/kg	<25	[ 17,000 ]	<25	<25	<25	<25	NS	2,700	NS
<b>Other VOCs</b>										
Bromodichloromethane	µg/kg	NA	NA	NA	NA	NA	NA	NS	NS	NS
Carbon Tetrachloride	µg/kg	NA	NA	NA	NA	NA	NA	NS	NS	NS
Chloroethane	µg/kg	NA	NA	NA	NA	NA	NA	NS	NS	NS
Chloroform	µg/kg	NA	NA	NA	NA	NA	NA	NS	NS	NS
Chloromethane	µg/kg	NA	NA	NA	NA	NA	NA	NS	NS	NS
Dibromochloromethane	µg/kg	NA	NA	NA	NA	NA	NA	NS	NS	NS
1,2-Dibromo-3-chloropropane	µg/kg	NA	NA	NA	NA	NA	NA	NS	NS	NS
1,1-Dichloroethane	µg/kg	NA	NA	NA	NA	NA	NA	NS	NS	NS
1,2-Dichloropropane	µg/kg	NA	NA	NA	NA	NA	NA	NS	NS	NS
Methylene Chloride	µg/kg	NA	NA	NA	NA	NA	NA	NS	NS	NS
1,1,2,2-Tetrachloroethane	µg/kg	NA	NA	NA	NA	NA	NA	NS	NS	NS
Tetrachloroethane	µg/kg	NA	NA	NA	NA	NA	NA	NS	NS	NS
1,1,2-Trichloroethane	µg/kg	NA	NA	NA	NA	NA	NA	NS	NS	NS
Trichloroethane	µg/kg	NA	NA	NA	NA	NA	NA	NS	NS	NS

Notes:

1. mg/kg = milligrams per kilogram (equivalent to parts per million, ppm)
2. µg/mg = micrograms per kilogram (equivalent to parts per billion, ppb)
3. NA = not analyzed
4. NR 720 RCLs = Wisconsin Administrative Code, Chapter NR 720.09 generic Residual Contaminant Level for protection of groundwater
5. NR 746 Table 1 = Wisconsin Administrative Code, Chapter NR 746.06 Table 1 ("Indicators of Residual Petroleum Product in Soil Pores") soil screening levels
6. NR 720 Table 2 = Wisconsin Administrative Code, Chapter NR 746.06 Table 2 ("Protection of Human Health from Direct Contact with Contaminated Soil") concentrations
7. NS = no standard established
8. Laboratory flags: "J" = Analyte detected between Limit of Detection and Limit of Quantitation
9. Exceedances: ( ) = Concentration reported above NR 720 generic RCL  
[ ] = Concentration reported above NR 746 Table 1 and/or Table 2 value

**Table 4**  
**Groundwater Quality Results**  
**V. A. Medical Center Building #112 - 5000 W. National Avenue, Milwaukee, Wisconsin**  
**Project Reference #12700**

Parameter	Units	MW-1														MW-1R		MW-2										MW-2R				NR 140 ES	NR 140 PAL
		8/3/01	9/7/01	4/9/02	8/5/02	5/15/03	10/31/03	2/28/05	5/9/05	9/1/05	11/30/05	3/14/06	6/21/06	1/4/12	3/20/12	8/3/01	9/7/01	4/9/02	8/5/02	5/15/03	10/31/03	2/28/05	5/9/05	9/1/05	11/30/05	3/14/06	6/21/06	12/19/11	12/11 Dup	3/20/12	3/12 Dup		
<b>PVOCs &amp; Detected VOCs</b>																																	
Benzene	µg/L	dry	<0.16	<0.48	<1.0	<1.0	<0.5	<0.26	<0.26	<0.26	<0.26	<0.26	<0.17	<0.5	<0.5	(0.604)	<1.6	<24	<10	<50	<0.5	<0.26	<0.26	<13	<13	<13	<8.5	<0.5	<0.5	<2.5	<0.5	5	0.5
Bromodichloromethane	µg/L	dry	<0.2	<0.61	<1.0	<1.0	<0.5	[1.3]	<0.28	<0.28	<0.28	<0.28	<0.82	<0.68	<0.68	[27.9]	[140]	[160]	[140]	[120]	[136]	[105]	[78]	[107]	[63]	[44 "J"]	[45 "J"]	<0.68	<0.68	<3.4	0.79 "J"	0.6	0.06
Bromoform	µg/L	dry	NA	<0.70	NA	NA	NA	<0.4	<0.4	<0.4	<0.4	<0.4	<0.3	<0.43	<0.43	NA	NA	<35	NA	NA	NA	(2.4)	(2.5)	<20	<20	<20	<15	<0.43	<0.43	<2.15	<0.43	4.4	0.44
Carbon Tetrachloride	µg/L	dry	0.471 "J"	(2.4)	<1.0	<1.0	<0.5	(0.7 "J")	<0.25	<0.25	0.48 <sup>d</sup>	<0.25	<0.52	<0.47	<0.47	[198]	[91.4]	[96 "J"]	[100]	[97]	[102]	[34]	[40]	[23 "J"]	[18 "J"]	<12.5	<26	[22.3]	22.5	[29.5]	33	5	0.5
Chloroethane	µg/L	dry	<0.25	<0.57	<1.0	<1.0	<0.5	<0.37	<0.37	<0.37	<0.37	<0.37	<0.54	<1.4	<1.4	1.51	<2.5	<28	<10	<50	1.3	<0.37	<0.37	<18.5	<18.5	<18.5	<27	<1.4	<1.4	<7	<1.4	400	80
Chloroform	µg/L	dry	[49.6]	[120]	(2.7)	[42]	(4.21)	[43]	[11]	[13]	[32]	[52]	[7.4]	<0.49	(0.76 "J")	[7,720]	[4,300]	[6,100]	[7,100]	[7,800]	[10,000]	[5,100]	[3,600]	[5,740]	[5,700]	[3,800]	[4,600]	[218]	215	[320]	310	6	0.6
Chloromethane	µg/L	dry	<0.15	<0.62	<1.0	<1.0	<0.6	<1.1	<1.1	(8.6)	<1.1	<1.1	<0.91	<1.9	<1.9	2.53	<1.5	<31	(11)	ND	2.25	<1.1	<1.1	<55	<55	<55	<45.5	<1.9	<1.9	<9.5	<1.9	30	3
Dibromochloromethane	µg/L	dry	<0.22	<0.43	<1.0	<1.0	<0.5	<0.74	<0.74	<0.74	<0.74	<0.74	<0.65	<0.55	<0.55	(14.4)	(20.5)	(28 "J")	(33)	[140]	(21.8)	(14)	(13)	<37	<37	<37	<32.5	<0.55	<0.55	<2.75	<0.55	60	6
1,2-Dibromo-3-chloropropane	µg/L	dry	<0.15	<1.0	<2.0	<2.0	<0.39	<4.1	<4.1	<4.1	<4.1	<4.1	<2.5	<2.8	<2.8	[0.574]	<1.5	<50	<20	<100	[138]	<4.1	<4.1	<205	<205	<205	<125	<2.8	<2.8	<14	<2.8	0.2	0.02
1,1-Dichloroethane	µg/L	dry	<0.28	<0.85	<1.0	<1.0	<0.5	<0.91	<0.91	<0.91	<0.25	<0.91	<0.22	<0.98	<0.98	0.998	<3.8	<42	<10	<50	2.64	4.7	<0.91	<12.5	<12.5	<12.5	<11	<0.98	<0.98	<4.9	<0.98	850	85
1,1-Dichloroethene	µg/L	dry	<0.38	<0.85	<1.0	<1.0	<0.5	<0.2	<0.2	<0.2	<0.91	<0.2	<0.3	<0.6	<0.6	<0.5	<3.8	<42	<10	<50	(0.868)	0.44 "J"	0.57 "J"	<10	<10	<10	<15	<0.6	<0.6	<3	<0.6	7	0.7
1,2-Dichloropropane	µg/L	dry	<0.35	<0.53	<1.0	<1.0	<0.5	<0.37	<0.37	<0.37	<0.37	<0.37	<0.21	<0.4	<0.4	(2.18)	<3.5	<26	<10	<50	(2.31)	(1.9)	(1.7)	<18.5	<18.5	<18.5	<10.5	<0.4	<0.4	<2	<0.4	5	0.5
Ethylbenzene	µg/L	dry	<0.5	<0.43	<1.0	<1.0	<0.5	<0.3	<0.3	<0.3	<0.3	<0.3	<0.2	<0.78	<0.78	<0.5	23.0	<22	<10	<50	<0.5	<0.3	<0.3	<15	<15	<15	<10	<0.78	<0.78	<3.9	<0.78	700	140
Isopropylbenzene	µg/L	dry	<0.17	<0.43	<1.0	<1.0	<0.5	<0.56	<0.56	<0.56	<0.56	<0.56	<0.99	<0.92	<0.92	<0.5	<1.7	<22	<10	<50	<0.5	<0.56	<0.56	<28	<28	<28	<49.5	<0.92	<0.92	<4.6	<0.92	NS	NS
Methylene chloride	µg/L	dry	(0.77 "J")	<0.85	<1.0	<1.0	<0.53	<0.55	<0.55	<0.55	<0.55	<0.55	<0.61	<1.1	<1.1	(4.89)	[6.73]	<42	<10	<50	[8.48]	(4.2)	(1.9)	<27.5	<27.5	<27.5	<30.5	(3.0 "J")	3.2 "J"	[5.9 "J"]	5.8	5	0.5
Methyl Tert Butyl Ether	µg/L	dry	<0.3	<0.67	<1.0	<1.0	<0.5	<0.36	<0.36	<0.36	<0.36	<0.36	<0.36	<0.8	<0.8	<0.5	<3.0	<34	<10	<50	<0.5	<0.36	<0.36	<18	<18	<18	<17	<0.8	<0.8	<4	<0.8	60	12
1,1,1,2-Tetrachloroethane	µg/L	dry	<0.28	<0.91	<1.0	<1.0	<0.35	<0.29	<0.29	<0.29	<0.39	<0.29	<0.89	<0.53	<0.53	[0.591]	<2.8	<46	<10	<50	[2.0]	[1.3]	[1.5]	<14.5	<14.5	<14.5	<44.5	<0.53	<0.53	<2.65	<0.53	0.2	0.02
1,1,1,2-Tetrachloroethane	µg/L	dry	NA	<0.75	NA	NA	NA	<0.49	<0.49	<0.49	<0.49	<0.49	<0.48	<1	<1	NA	NA	<38	NA	NA	NA	1.14 "J"	0.91 "J"	<24.5	<24.5	<24.5	<24	<1	<1	<5	<1	70	7
Tetrachloroethene	µg/L	dry	<0.26	<0.57	<1.0	<1.0	<0.5	<0.45	<0.45	<0.45	<0.45	<0.45	<0.37	<0.44	<0.44	[30.6]	[25.7]	[46 "J"]	[22]	<50	[28.7]	[25]	[13]	<22.5	<22.5	<22.5	<18.5	<0.44	<0.44	<2.2	<0.44	5	0.5
Toluene	µg/L	dry	<0.4	<0.47	<1.0	<1.0	<0.5	<0.52	<0.52	<0.52	<0.52	<0.52	<0.59	<0.53	<0.53	<0.5	<4.0	<23	<10	<50	<0.5	<0.52	<0.52	<26	<26	<26	<29.5	<0.53	<0.53	<2.65	<0.53	800	160
1,1,2-Trichloroethane	µg/L	dry	<0.26	<0.72	<1.0	<1.0	<0.16	<0.35	<0.35	<0.35	<0.35	<0.35	<0.36	<0.47	<0.47	(1.13)	<2.0	<36	<10	<50	(4.92)	(1.4)	(1.2)	<17.5	<17.5	<17.5	<18	<0.47	<0.47	<2.35	<0.47	5	0.5
Trichloroethene	µg/L	dry	<0.26	<0.89	<1.0	<1.0	<0.5	<0.37	<0.37	<0.37	<0.37	<0.37	<0.39	<0.47	<0.47	[14.4]	[14.5]	<44	[19]	<50	[44.8]	[21]	[16]	[24 "J"]	[24 "J"]	<18.5	[21.5 "J"]	<0.47	<0.47	<2.35	<0.47	5	0.5
1,2,4-Trimethylbenzene	µg/L	dry	<0.4	<0.51	<1.0	<1.0	<1.0	<0.32	<0.32	<0.32	<0.32	<0.32	<0.16	<0.8	<0.8	1.0	<4.0	<26	<10	<50	<1.0	<0.32	<0.32	<16	<16	<16	<8	<0.8	<0.8	<4	<0.8	NS	NS
1,3,5-Trimethylbenzene	µg/L	dry	<0.17	<0.52	<1.0	<1.0	<1.0	<0.83	<0.83	<0.83	<0.83	<0.83	<1.2	<0.74	<0.74	1.0	<1.7	<26	<10	<50	<1.0	<0.83	<0.83	<41.5	<41.5	<41.5	<60	<0.74	<0.74	<3.7	<0.74	NS	NS
Total Trimethylbenzenes	µg/L	dry	<0.57	<1.03	<2.0	<2.0	<2.0	<1.15	<1.15	<1.15	<1.15	<1.15	<1.36	<1.54	<1.54	2.0	<5.7	<52	<20	<100	<2.0	<1.15	<1.15	<57.5	<57.5	<57.5	<68	<1.54	<1.54	<7.7	<1.54	480	96
Vinyl Chloride	µg/L	dry	<0.39	<0.18	<1.0	<1.0	<0.17	<0.16	<0.16	<0.16	<0.16	<0.16	<0.11	<0.18	<0.18	<0.17	<3.9	<9.0	<10	<50	[0.582]	[0.3 "J"]	<0.16	<8.0	<8.0	<8.0	<5.5	<0.18	<0.18	<0.9	<0.18	0.2	0.02
Xylenes, total	µg/L	dry	<0.57	<1.94	<3.0	<3.0	<0.50	<1.17	<1.17	<1.17	<1.17	<1.17	<1.28	<1.9	<1.9	1.34	<5.7	<97	<30	<150	1.1	<1.17	<1.17	<58.5	<58.5	<58.5	<64	<1.9	<1.9	<9.5	<1.9	2,000	400
<b>Detected PAHs</b>																																	
Benzo(b)fluoranthene	µg/L	dry	(0.039)	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	<0.02	<0.02	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	0.2	0.02
Benzo(a)anthracene	µg/L	dry	<0.03	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	<0.1	<0.03	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NS	NS
Fluoranthene	µg/L	dry	0.094	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	<5.0	<0.03	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	400	80
Chrysene	µg/L	dry	(0.02)	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	[0.499]	<0.02	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	0.2	0.02
<b>Inorganic Compounds</b>																																	
Manganese-Dissolved	mg/L	dry	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	[41]	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	0.05	0.025	
Nitrogen, NO3+NO2	mg/L	dry	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	[12]	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	10	2	
Sulfate	mg/L	dry	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	[3,800]	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	250	125		

Notes:  
1. NR 140 ES = Wisconsin Administrative Code, Chapter NR 140 Enforcement Standard  
2. NR 140 PAL = Wisconsin Administrative Code, Chapter NR 140 Preventive Action Limit  
3. NS = no standard  
4. µg/L = micrograms per liter (equivalent to parts per billion, ppb)  
5. mg/L = milligrams per liter (equivalent to parts per million, ppm)  
6. NA = not analyzed  
7. Laboratory flags: "J" = Analyte detected between Limit of Detection and Limit of Quantitation  
8. NR 140 exceedances: [ ] = Concentration exceeds NR 140 ES  
( ) = Concentration exceeds NR 140 PAL



**Table 4**  
**Groundwater Quality Results**  
**V. A. Medical Center Building #112 - 5000 W. National Avenue, Milwaukee, Wisconsin**  
**Project Reference #12700**

Parameter	Units	MW-3													MW-4										NR 140 ES	NR 140 PAL		
		8/3/01	9/7/01	4/9/02	8/5/02	5/15/03	10/31/03	2/28/05	5/9/05	9/1/05	11/30/05	3/14/06	6/21/06	12/19/11	3/20/12	4/9/02	8/5/02	5/15/03	10/31/03	2/28/05	5/9/05	9/1/05	11/30/05	11/30/05			6/21/06	12/19/11
<b>PVOCs &amp; Detected VOCs</b>																												
Benzene	µg/L	<0.5	NA	<0.48	<1.0	<1.0	<0.5	<0.26	<0.26	<0.26	<0.26	<0.26	<0.17	<0.5	NA	<0.48	<1.0	<1.0	<0.5	<0.26	<0.26	<0.26	<0.26	<0.26	<0.17	Well	5	0.5
Bromodichloromethane	µg/L	<0.5	NA	<0.61	<1.0	<1.0	<0.5	<0.28	<0.28	<0.28	<0.28	<0.28	<0.82	<0.68	NA	<0.61	<1.0	<1.0	<0.5	<0.28	<0.28	<0.28	<0.28	<0.28	<0.82	buried	0.6	0.06
Bromoform	µg/L	NA	NA	<0.70	NA	NA	NA	<0.4	<0.4	<0.4	<0.4	<0.4	<0.3	<0.43	NA	<0.70	NA	NA	NA	<0.4	<0.4	<0.4	<0.4	<0.4	<0.3		4.4	0.44
Carbon Tetrachloride	µg/L	<0.5	NA	<0.73	<1.0	<1.0	<0.5	<0.25	<0.25	<0.25	<0.25	<0.25	<0.52	<0.47	NA	<0.73	<1.0	<1.0	<0.5	<0.25	<0.25	<0.25	<0.25	<0.25	<0.52		5	0.5
Chloroethane	µg/L	<0.5	NA	<0.57	<1.0	<1.0	<0.5	<0.37	<0.37	<0.37	<0.37	<0.37	<0.54	<1.4	NA	<0.57	<1.0	<1.0	<0.5	<0.37	<0.37	<0.37	<0.37	<0.37	<0.54		400	80
Chloroform	µg/L	<0.14	NA	<0.75	<1.0	<1.0	<0.14	<0.78	<0.78	<0.78	<0.78	<0.78	<0.61	<0.49	NA	(1.0 "J")	<1.0	<1.0	<0.14	<0.78	<0.78	<0.78	<0.78	<0.78	<0.61		6	0.6
Chloromethane	µg/L	<0.6	NA	<0.62	<1.0	<1.0	<0.6	<1.1	<1.1	(6.9)	<1.1	<1.1	<0.91	<1.9	NA	<0.62	<1.0	<1.0	<0.6	<1.1	<1.1	(4.2)	<1.1	<1.1	<0.91		30	3
Dibromochloromethane	µg/L	<0.5	NA	<0.43	<1.0	<1.0	<0.5	<0.74	<0.74	<0.74	<0.74	<0.74	<0.65	<0.55	NA	<0.43	<1.0	<1.0	<0.5	<0.74	<0.74	<0.74	<0.74	<0.74	<0.65		60	6
1,2-Dibromo-3-chloropropane	µg/L	<0.39	NA	<1.0	<2.0	<2.0	<0.39	<4.1	<4.1	<4.1	<4.1	<4.1	<2.5	<2.8	NA	<1.0	<2.0	<2.0	<0.39	<4.1	<4.1	<4.1	<4.1	<4.1	<2.5		0.2	0.02
1,1-Dichloroethane	µg/L	<0.5	NA	<0.85	<1.0	<1.0	<0.5	<0.91	<0.91	<0.91	<0.91	<0.91	<0.22	<0.98	NA	<0.85	<1.0	<1.0	<0.5	<0.91	<0.91	<0.91	<0.91	<0.91	<0.22		850	85
1,1-Dichloroethene	µg/L	<0.5	NA	<0.85	<1.0	<1.0	<0.5	<0.2	<0.2	<0.2	<0.2	<0.2	<0.3	<0.6	NA	<0.85	<1.0	<1.0	<0.5	<0.2	<0.2	<0.2	<0.2	<0.2	<0.3		7	0.7
1,2-Dichloropropane	µg/L	<0.5	NA	<0.53	<1.0	<1.0	<0.5	<0.37	<0.37	<0.37	<0.37	<0.37	<0.21	<0.4	NA	<0.53	<1.0	<1.0	<0.5	<0.37	<0.37	<0.37	<0.37	<0.37	<0.21		5	0.5
Ethylbenzene	µg/L	<0.5	NA	<0.43	<1.0	<1.0	<0.5	<0.3	<0.3	<0.3	<0.3	<0.3	<0.2	<0.78	NA	<0.43	<1.0	<1.0	<0.5	<0.3	<0.3	<0.3	<0.3	<0.3	<0.2		700	140
Isopropylbenzene	µg/L	<0.5	NA	<0.43	<1.0	<1.0	<0.5	<0.56	<0.56	<0.56	<0.56	<0.56	<0.99	<0.92	NA	<0.43	<1.0	<1.0	<0.5	<0.56	<0.56	<0.56	<0.56	<0.56	<0.99		NS	NS
Methylene chloride	µg/L	<0.5	NA	<0.85	<1.0	<1.0	<0.53	<0.55	<0.55	<0.55	<0.55	<0.55	<0.61	<1.1	NA	<0.85	<1.0	<1.0	<0.53	<0.55	<0.55	<0.55	<0.55	<0.55	<0.61		5	0.5
Methyl Tert Butyl Ether	µg/L	<0.5	NA	<0.67	<1.0	<1.0	<0.5	<0.36	<0.36	<0.36	<0.36	<0.36	<0.34	<0.8	NA	<0.67	<1.0	<1.0	<0.5	<0.36	<0.36	<0.36	<0.36	<0.36	<0.34		60	12
1,1,1,2-Tetrachloroethane	µg/L	<0.35	NA	<0.91	<1.0	<1.0	<0.35	<0.29	<0.29	<0.29	<0.29	<0.29	<0.89	<0.53	NA	<0.91	<1.0	<1.0	<0.35	<0.29	<0.29	<0.29	<0.29	<0.29	<0.89		0.2	0.02
1,1,1,2-Tetrachloroethane	µg/L	NA	NA	<0.75	NA	NA	NA	<0.49	<0.49	<0.49	<0.49	<0.49	<0.48	<1	NA	<0.75	NA	NA	NA	<0.49	<0.49	<0.49	<0.49	<0.49	<0.48		70	7
Tetrachloroethene	µg/L	<0.5	NA	<0.57	<1.0	<1.0	<0.5	<0.45	<0.45	<0.45	<0.45	<0.45	<0.37	<0.44	NA	<0.57	<1.0	<1.0	<0.5	<0.45	<0.45	<0.45	<0.45	<0.45	<0.37		5	0.5
Toluene	µg/L	<0.5	NA	<0.47	<1.0	<1.0	<0.5	<0.52	<0.52	<0.52	<0.52	<0.52	<0.59	<0.53	NA	<0.47	<1.0	<1.0	<0.5	<0.52	<0.52	<0.52	<0.52	<0.52	<0.59		800	160
1,1,2-Trichloroethane	µg/L	<0.16	NA	<0.72	<1.0	<1.0	<0.16	<0.35	<0.35	<0.35	<0.35	<0.35	<0.36	<0.47	NA	<0.72	<1.0	<1.0	<0.16	<0.35	<0.35	<0.35	<0.35	<0.35	<0.36		5	0.5
Trichloroethene	µg/L	<0.5	NA	<0.89	<1.0	<1.0	<0.5	<0.37	<0.37	<0.37	<0.37	<0.37	<0.39	<0.47	NA	<0.89	<1.0	<1.0	<0.5	<0.37	<0.37	<0.37	<0.37	<0.37	<0.39		5	0.5
1,2,4-Trimethylbenzene	µg/L	<1.0	NA	<0.51	<1.0	<1.0	<1.0	<0.32	<0.32	<0.32	<0.32	<0.32	<0.16	<0.8	NA	<0.51	<1.0	<1.0	<1.0	<0.32	<0.32	<0.32	<0.32	<0.32	<0.16		NS	NS
1,3,5-Trimethylbenzene	µg/L	<1.0	NA	<0.52	<1.0	<1.0	<1.0	<0.83	<0.83	<0.83	<0.83	<0.83	<1.2	<0.74	NA	<0.52	<1.0	<1.0	<1.0	<0.83	<0.83	<0.83	<0.83	<0.83	<1.2		NS	NS
Total Trimethylbenzenes	µg/L	<2.0	NA	<1.03	<2.0	<2.0	<2.0	<1.15	<1.15	<1.15	<1.15	<1.15	<1.36	<1.54	NA	<1.03	<2.0	<2.0	<2.0	<1.15	<1.15	<1.15	<1.15	<1.15	<1.36		480	96
Vinyl Chloride	µg/L	<0.17	NA	<0.18	<1.0	<1.0	<0.17	<0.16	<0.16	<0.16	<0.16	<0.16	<0.11	<0.18	NA	<0.17	<1.0	<1.0	<0.17	<0.16	<0.16	<0.16	<0.16	<0.16	<0.11		0.2	0.02
Xylenes, total	µg/L	<0.5	NA	<1.94	<3.0	<3.0	<0.50	<1.17	<1.17	<1.17	<1.17	<1.17	<1.28	<1.9	NA	<1.94	<3.0	<3.0	<0.50	<1.17	<1.17	<1.17	<1.17	<1.17	<1.28		2,000	400
<b>Detected PAHs</b>																												
Benzo(b)fluoranthene	µg/L	<0.02	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	0.2	0.02
Benzo(a)anthracene	µg/L	1.08	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NS	NS
Fluoranthene	µg/L	<5.0	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	400	80
Chrysene	µg/L	<0.02	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	0.2	0.02
<b>Inorganic Compounds</b>																												
Manganese-Dissolved	mg/L	NA	NA	[ 0.220 ]	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	0.05	0.025
Nitrogen, NO3+NO2	mg/L	NA	NA	0.023	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	10	2
Sulfate	mg/L	NA	NA	37	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	250	125

Notes:  
1. NR 140 ES = Wisconsin Administrative Code, Chapter NR 140 Enforcement Standard  
2. NR 140 PAL = Wisconsin Administrative Code, Chapter NR 140 Preventive Action Limit  
3. NS = no standard  
4. µg/L = micrograms per liter (equivalent to parts per billion, ppb)  
5. mg/L = milligrams per liter (equivalent to parts per million, ppm)  
6. NA = not analyzed  
7. Laboratory flags: "J" = Analyte detected between Limit of Detection and Limit of Quantitation  
8. NR 140 exceedances: [ ] = Concentration exceeds NR 140 ES  
( ) = Concentration exceeds NR 140 PAL

**Table 4**  
**Groundwater Quality Results**  
**V. A. Medical Center Building #112 - 5000 W. National Avenue, Milwaukee, Wisconsin**  
**Project Reference #12700**

Parameter	Units	MW-5											MW-5R		MW-6											NR 140 ES	NR 140 PAL
		4/9/02	8/5/02	5/15/03	10/31/03	2/28/05	5/9/05	9/1/05	11/30/05	3/14/06	6/21/06	12/19/11	3/20/12	4/9/02	8/5/02	5/15/03	10/31/03	2/28/05	5/9/05	9/1/05	11/30/05	3/14/06	6/21/06	12/19/11	3/20/12		
<b>PVOCs &amp; Detected VOCs</b>																											
Benzene	µg/L	<0.48	<1.0	<1.0	<0.5	<0.26	<0.26	<0.26	<0.26	<0.26	<0.17	<0.5	<0.5	<0.48	<1.0	<1.0	<0.5	<0.26	<0.26	<0.26	<0.26	<0.26	<0.17	<0.5	<0.5	5	0.5
Bromodichloromethane	µg/L	<0.61	<1.0	<1.0	<0.5	<0.28	<0.28	<0.35	<0.28	<0.28	<0.82	<0.68	<0.68	<0.61	<1.0	<1.0	<0.5	<0.28	<0.28	<0.28	<0.28	<0.28	<0.82	<0.68	<0.68	0.6	0.06
Bromoform	µg/L	<0.70	NA	NA	NA	<0.4	<0.4	<0.4	<0.4	<0.4	<0.3	<0.43	<0.43	<0.70	NA	NA	NA	<0.4	<0.4	<0.4	<0.4	<0.4	<0.3	<0.43	<0.43	4.4	0.44
Carbon Tetrachloride	µg/L	<0.73	<1.0	<1.0	<0.5	<0.25	<0.25	<0.25	<0.25	<0.25	<0.52	<0.47	<0.47	<0.73	<1.0	<1.0	<0.5	<0.25	<0.25	<0.25	<0.25	<0.25	<0.52	<0.47	<0.47	5	0.5
Chloroethane	µg/L	<0.57	<1.0	<1.0	<0.5	<0.37	<0.37	<0.37	<0.37	<0.37	<0.54	<1.4	<1.4	<0.57	<1.0	<1.0	<0.5	<0.37	<0.37	<0.37	<0.37	<0.37	<0.54	<1.4	<1.4	400	80
Chloroform	µg/L	<0.75	<1.0	<1.0	<0.14	<0.78	<0.78	<0.78	<0.78	<0.78	<0.61	<0.49	<0.49	<0.75	<1.0	<1.0	<0.14	<0.78	<0.78	<0.78	<0.78	<0.78	<0.61	<0.49	<0.49	6	0.6
Chloromethane	µg/L	<0.62	<1.0	<1.0	<0.6	<1.1	<1.1	(5.2)	2.8 "J"	<1.1	<0.91	<1.9	<1.9	<0.62	<1.0	<1.0	<0.6	<1.1	<1.1	(5.0)	<1.1	<1.1	<0.91	<1.9	<1.9	30	3
Dibromochloromethane	µg/L	<0.43	<1.0	<1.0	<0.5	<0.74	<0.74	<0.74	<0.74	<0.74	<0.65	<0.55	<0.55	<0.43	<1.0	<1.0	<0.5	<0.74	<0.74	<0.74	<0.74	<0.65	<0.55	<0.55	60	6	
1,2-Dibromo-3-chloropropane	µg/L	<1.0	<2.0	<2.0	<0.39	<4.1	<4.1	<4.1	<4.1	<4.1	<2.5	<2.8	<2.8	<1.0	<2.0	<2.0	<0.39	<4.1	<4.1	<4.1	<4.1	<2.5	<2.8	<2.8	0.2	0.02	
1,1-Dichloroethane	µg/L	<0.85	<1.0	<1.0	<0.5	<0.91	<0.91	<0.91	<0.91	<0.91	<0.22	<0.98	<0.98	<0.85	<1.0	<1.0	<0.5	<0.91	<0.91	<0.91	<0.91	<0.22	<0.98	<0.98	850	85	
1,1-Dichloroethene	µg/L	<0.85	<1.0	<1.0	<0.5	<0.2	<0.2	<0.2	<0.2	<0.2	<0.3	<0.6	<0.6	<0.85	<1.0	<1.0	<0.5	<0.2	<0.2	<0.2	<0.2	<0.2	<0.3	<0.6	<0.6	7	0.7
1,2-Dichloropropane	µg/L	<0.53	<1.0	<1.0	<0.5	<0.37	<0.37	<0.37	<0.37	<0.37	<0.21	<0.4	<0.4	<0.53	<1.0	<1.0	<0.5	<0.37	<0.37	<0.37	<0.37	<0.21	<0.4	<0.4	5	0.5	
Ethylbenzene	µg/L	<0.43	<1.0	<1.0	<0.5	<0.3	<0.3	<0.3	<0.3	<0.3	<0.2	<0.78	<0.78	<0.43	<1.0	<1.0	<0.5	<0.3	<0.3	<0.3	<0.3	<0.2	<0.78	<0.78	700	140	
Isopropylbenzene	µg/L	<0.43	<1.0	<1.0	<0.5	<0.56	<0.56	<0.56	<0.56	<0.56	<0.99	<0.92	<0.92	<0.43	<1.0	<1.0	<0.5	<0.56	<0.56	<0.56	<0.56	<0.99	<0.92	<0.92	NS	NS	
Methylene chloride	µg/L	<0.85	<1.0	<1.0	<0.53	<0.55	<0.55	<0.55	<0.55	<0.55	<0.61	<1.1	<1.1	<0.85	<1.0	<1.0	<0.53	<0.55	<0.55	<0.55	<0.55	<0.61	<1.1	<1.1	5	0.5	
Methyl Tert Butyl Ether	µg/L	<0.67	<1.0	<1.0	<0.5	<0.36	<0.36	<0.36	<0.36	<0.36	<0.34	<0.8	<0.8	<0.67	<1.0	<1.0	<0.5	<0.36	<0.36	<0.36	<0.36	<0.34	<0.8	<0.8	60	12	
1,1,1,2-Tetrachloroethane	µg/L	<0.91	<1.0	<1.0	<0.35	<0.29	<0.29	<0.29	<0.29	<0.29	<0.89	<0.53	<0.53	<0.91	<1.0	<1.0	<0.35	<0.29	<0.29	<0.29	<0.29	<0.89	<0.53	<0.53	0.2	0.02	
1,1,1,2-Tetrachloroethane	µg/L	<0.75	NA	NA	NA	<0.49	<0.49	<0.49	<0.49	<0.49	<0.48	<1	<1	<0.75	NA	NA	NA	<0.49	<0.49	<0.49	<0.49	<0.48	<1	<1	70	7	
Tetrachloroethene	µg/L	<0.57	<1.0	<1.0	<0.5	<0.45	<0.45	<0.45	<0.45	<0.45	<0.37	<0.44	<0.44	<0.57	<1.0	<1.0	<0.5	<0.45	<0.45	<0.45	<0.45	<0.37	<0.44	<0.44	5	0.5	
Toluene	µg/L	<0.47	<1.0	<1.0	<0.5	<0.52	<0.52	<0.52	<0.52	<0.52	<0.59	<0.53	<0.53	<0.47	<1.0	<1.0	<0.5	<0.52	<0.52	<0.52	<0.52	<0.59	<0.53	<0.53	800	160	
1,1,2-Trichloroethane	µg/L	<0.72	<1.0	<1.0	<0.16	<0.35	<0.35	<0.35	<0.35	<0.35	<0.36	<0.47	<0.47	<0.72	<1.0	<1.0	<0.16	<0.35	<0.35	<0.35	<0.35	<0.36	<0.47	<0.47	5	0.5	
Trichloroethene	µg/L	<0.89	<1.0	<1.0	<0.5	<0.37	<0.37	<0.37	<0.37	<0.37	<0.39	<0.47	<0.47	<0.89	<1.0	<1.0	<0.5	<0.37	<0.37	<0.37	<0.37	<0.39	<0.47	<0.47	5	0.5	
1,2,4-Trimethylbenzene	µg/L	<0.51	<1.0	<1.0	<1.0	<0.32	<0.32	<0.32	<0.32	<0.32	<0.16	<0.8	<0.8	<0.51	<1.0	<1.0	<1.0	<0.32	<0.32	<0.32	<0.32	<0.16	<0.8	<0.8	NS	NS	
1,3,5-Trimethylbenzene	µg/L	<0.52	<1.0	<1.0	<1.0	<0.83	<0.83	<0.83	<0.83	<0.83	<1.2	<0.74	<0.74	<0.52	<1.0	<1.0	<1.0	<0.83	<0.83	<0.83	<0.83	<1.2	<0.74	<0.74	NS	NS	
Total Trimethylbenzenes	µg/L	<1.03	<2.0	<2.0	<2.0	<1.15	<1.15	<1.15	<1.15	<1.15	<1.36	<1.54	<1.54	<1.03	<2.0	<2.0	<2.0	<1.15	<1.15	<1.15	<1.15	<1.36	<1.54	<1.54	480	96	
Vinyl Chloride	µg/L	<0.18	<1.0	<1.0	<0.17	<0.16	<0.16	<0.16	<0.16	<0.16	<0.11	<0.18	<0.18	<0.18	<1.0	<1.0	<0.17	<0.16	<0.16	<0.16	<0.16	<0.11	<0.18	<0.18	0.2	0.02	
Xylenes, total	µg/L	<1.94	<3.0	<3.0	<0.50	<1.17	<1.17	<1.17	<1.17	<1.17	<1.28	<1.9	<1.9	<1.94	<3.0	<3.0	<0.50	<1.17	<1.17	<1.17	<1.17	<1.28	<1.9	<1.9	2,000	400	
<b>Detected PAHs</b>																											
Benzo(b)fluoranthene	µg/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	0.2	0.02
Benzo(a)anthracene	µg/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NS	NS
Fluoranthene	µg/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	400	80
Chrysene	µg/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	0.2	0.02
<b>Inorganic Compounds</b>																											
Manganese-Dissolved	mg/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	0.05	0.025
Nitrogen, NO3+NO2	mg/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	10	2
Sulfate	mg/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	250	125

- Notes:
- NR 140 ES = Wisconsin Administrative Code, Chapter NR 140 Enforcement Standard
  - NR 140 PAL = Wisconsin Administrative Code, Chapter NR 140 Preventive Action Limit
  - NS = no standard
  - µg/L = micrograms per liter (equivalent to parts per billion, ppb)
  - mg/L = milligrams per liter (equivalent to parts per million, ppm)
  - NA = not analyzed
  - Laboratory flags: "J" = Analyte detected between Limit of Detection and Limit of Quantitation
  - NR 140 exceedances: [ ] = Concentration exceeds NR 140 ES  
( ) = Concentration exceeds NR 140 PAL

**Table 4**  
**Groundwater Quality Results**  
**V. A. Medical Center Building #112 - 5000 W. National Avenue, Milwaukee, Wisconsin**  
**Project Reference #12700**

Parameter	Units	MW-7												MW-8												NR 140 ES	NR 140 PAL
		4/9/02	8/5/02	5/15/03	10/31/03	2/28/05	5/9/05	9/1/05	11/30/05	3/14/06	6/21/06	12/19/11	3/20/12	4/9/02	8/5/02	5/15/03	10/31/03	2/28/05	5/9/05	9/1/05	11/30/05	3/14/06	6/21/06	12/19/11	3/20/12		
<b>PVOCs &amp; Detected VOCs</b>																											
Benzene	µg/L	<0.48	<1.0	<1.0	<0.5	<0.26	<0.26	<0.26	<0.26	<0.26	<0.17	<0.5	<0.5	<0.48	<1.0	<1.0	<0.5	<0.26	<0.26	<0.26	<0.26	<0.26	<0.17	<0.5	<0.5	5	0.5
Bromodichloromethane	µg/L	<0.61	<1.0	<1.0	<0.5	<0.28	<0.28	<0.28	<0.28	<0.28	<0.82	<0.68	<0.68	<0.61	<1.0	<1.0	<0.5	<0.28	<0.28	<0.28	<0.28	<0.28	<0.82	<0.68	<0.68	0.6	0.06
Bromoform	µg/L	<0.70	NA	NA	NA	<0.4	<0.4	<0.4	<0.4	<0.4	<0.3	<0.43	<0.43	<0.70	NA	NA	NA	<0.4	<0.4	<0.4	<0.4	<0.4	<0.3	<0.43	<0.43	4.4	0.44
Carbon Tetrachloride	µg/L	<0.73	<1.0	<1.0	<0.5	<0.25	<0.25	<0.25	<0.25	<0.25	<0.52	<0.47	<0.47	<0.73	<1.0	<1.0	<0.5	<0.25	<0.25	<0.25	<0.25	<0.25	<0.52	<0.47	<0.47	5	0.5
Chloroethane	µg/L	<0.57	<1.0	<1.0	<0.5	<0.37	<0.37	<0.37	<0.37	<0.37	<0.54	<1.4	<1.4	<0.57	<1.0	<1.0	<0.5	<0.37	<0.37	<0.37	<0.37	<0.37	<0.54	<1.4	<1.4	400	80
Chloroform	µg/L	<0.75	<1.0	<1.0	( 0.991 )	<0.78	<0.78	<0.78	<0.78	<0.78	<0.61	<0.49	<0.49	<0.75	<1.0	<1.0	<0.14	<0.78	<0.78	<0.78	<0.78	<0.78	<0.61	<0.49	<0.49	6	0.6
Chloromethane	µg/L	<0.62	<1.0	<1.0	<0.6	<1.1	<1.1	( 5.9 )	<1.1	<1.1	<0.91	<1.9	<1.9	<0.62	<1.0	<1.0	<0.6	<1.1	<1.1	<1.1	<1.1	<1.1	<0.91	<1.9	<1.9	30	3
Dibromochloromethane	µg/L	<0.43	<1.0	<1.0	<0.5	<0.74	<0.74	<0.74	<0.74	<0.74	<0.65	<0.55	<0.55	<0.43	<1.0	<1.0	<0.5	<0.74	<0.74	<0.74	<0.74	<0.74	<0.65	<0.55	<0.55	60	6
1,2-Dibromo-3-chloropropane	µg/L	<1.0	<2.0	<2.0	<0.39	<4.1	<4.1	<4.1	<4.1	<4.1	<2.5	<2.8	<2.8	<1.0	<2.0	<2.0	<0.39	<4.1	<4.1	<4.1	<4.1	<4.1	<2.5	<2.8	<2.8	0.2	0.02
1,1-Dichloroethane	µg/L	<0.85	<1.0	<1.0	<0.5	<0.91	<0.91	<0.91	<0.91	<0.91	<0.22	<0.98	<0.98	<0.85	<1.0	<1.0	<0.5	<0.91	<0.91	<0.91	<0.91	<0.91	<0.22	<0.98	<0.98	850	85
1,1-Dichloroethene	µg/L	<0.85	<1.0	<1.0	<0.5	<0.2	<0.2	<0.2	<0.2	<0.2	<0.3	<0.6	<0.6	<0.85	<1.0	<1.0	<0.5	<0.2	<0.2	<0.2	<0.2	<0.2	<0.3	<0.6	<0.6	7	0.7
1,2-Dichloropropane	µg/L	<0.53	<1.0	<1.0	<0.5	<0.37	<0.37	<0.37	<0.37	<0.37	<0.21	<0.4	<0.4	<0.53	<1.0	<1.0	<0.5	<0.37	<0.37	<0.37	<0.37	<0.37	<0.21	<0.4	<0.4	5	0.5
Ethylbenzene	µg/L	<0.43	<1.0	<1.0	<0.5	<0.3	<0.3	<0.3	<0.3	<0.3	<0.2	<0.78	<0.78	<0.43	<1.0	<1.0	<0.5	<0.3	<0.3	<0.3	<0.3	<0.3	<0.2	<0.78	<0.78	700	140
Isopropylbenzene	µg/L	<0.43	<1.0	<1.0	<0.5	<0.56	<0.56	<0.56	<0.56	<0.56	<0.99	<0.92	<0.92	<0.43	<1.0	<1.0	<0.5	<0.56	<0.56	<0.56	<0.56	<0.56	<0.99	<0.92	<0.92	NS	NS
Methylene chloride	µg/L	<0.85	<1.0	<1.0	<0.53	<0.55	<0.55	<0.55	<0.55	<0.55	<0.61	<1.1	<1.1	<0.85	<1.0	<1.0	<0.53	<0.55	<0.55	<0.55	<0.55	<0.55	<0.61	<1.1	<1.1	5	0.5
Methyl Tert Butyl Ether	µg/L	<0.67	<1.0	<1.0	<0.5	<0.36	<0.36	<0.36	<0.36	<0.36	<0.34	<0.8	<0.8	<0.67	<1.0	<1.0	<0.5	<0.36	<0.36	<0.36	<0.36	<0.36	<0.34	<0.8	<0.8	60	12
1,1,1,2-Tetrachloroethane	µg/L	<0.91	<1.0	<1.0	<0.35	<0.29	<0.29	<0.29	<0.29	<0.29	<0.89	<0.53	<0.53	<0.91	<1.0	<1.0	<0.35	<0.29	<0.29	<0.29	<0.29	<0.29	<0.89	<0.53	<0.53	0.2	0.02
1,1,1,2-Tetrachloroethane	µg/L	<0.75	NA	NA	NA	<0.49	<0.49	<0.49	<0.49	<0.49	<0.48	<1	<1	<0.75	NA	NA	NA	<0.49	<0.49	<0.49	<0.49	<0.49	<0.48	<1	<1	70	7
Tetrachloroethene	µg/L	<0.57	<1.0	<1.0	<0.5	<0.45	<0.45	<0.45	<0.45	<0.45	<0.37	<0.44	<0.44	<0.57	<1.0	<1.0	<0.5	<0.45	<0.45	<0.45	<0.45	<0.45	<0.37	<0.44	<0.44	5	0.5
Toluene	µg/L	<0.47	<1.0	<1.0	<0.5	<0.52	<0.52	<0.52	<0.52	<0.52	<0.59	<0.53	<0.53	<0.47	<1.0	<1.0	<0.5	<0.52	<0.52	<0.52	<0.52	<0.52	<0.59	<0.53	<0.53	800	160
1,1,2-Trichloroethane	µg/L	<0.72	<1.0	<1.0	<0.16	<0.35	<0.35	<0.35	<0.35	<0.35	<0.36	<0.47	<0.47	<0.72	<1.0	<1.0	<0.16	<0.35	<0.35	<0.35	<0.35	<0.35	<0.36	<0.47	<0.47	5	0.5
Trichloroethene	µg/L	<0.89	<1.0	<1.0	<0.5	<0.37	<0.37	<0.37	<0.37	<0.37	<0.39	<0.47	<0.47	<0.89	<1.0	<1.0	<0.5	<0.37	<0.37	<0.37	<0.37	<0.37	<0.39	<0.47	<0.47	5	0.5
1,2,4-Trimethylbenzene	µg/L	<0.51	<1.0	<1.0	<1.0	<0.32	<0.32	<0.32	<0.32	<0.32	<0.16	<0.8	<0.8	<0.51	<1.0	<1.0	<1.0	<0.32	<0.32	<0.32	<0.32	<0.32	<0.16	<0.8	<0.8	NS	NS
1,3,5-Trimethylbenzene	µg/L	<0.52	<1.0	<1.0	<1.0	<0.83	<0.83	<0.83	<0.83	<0.83	<1.2	<0.74	<0.74	<0.52	<1.0	<1.0	<1.0	<0.83	<0.83	<0.83	<0.83	<0.83	<1.2	<0.74	<0.74	NS	NS
Total Trimethylbenzenes	µg/L	<1.03	<2.0	<2.0	<2.0	<1.15	<1.15	<1.15	<1.15	<1.15	<1.36	<1.54	<1.54	<1.03	<2.0	<2.0	<2.0	<1.15	<1.15	<1.15	<1.15	<1.15	<1.36	<1.54	<1.54	480	96
Vinyl Chloride	µg/L	<0.18	<1.0	<1.0	<0.17	<0.16	<0.16	<0.16	<0.16	<0.16	<0.11	<0.18	<0.18	<0.18	<1.0	<1.0	<0.17	<0.16	<0.16	<0.16	<0.16	<0.16	<0.11	<0.18	<0.18	0.2	0.02
Xylenes, total	µg/L	<1.94	<3.0	<3.0	<0.50	<1.17	<1.17	<1.17	<1.17	<1.17	<1.28	<1.9	<1.9	<1.94	<3.0	<3.0	<0.50	<1.17	<1.17	<1.17	<1.17	<1.17	<1.28	<1.9	<1.9	2,000	400
<b>Detected PAHs</b>																											
Benzo(b)fluoranthene	µg/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	0.2	0.02
Benzo(a)anthracene	µg/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NS	NS
Fluoranthene	µg/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	400	80
Chrysene	µg/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	0.2	0.02
<b>Inorganic Compounds</b>																											
Manganese-Dissolved	mg/L	0.023	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	0.05	0.025
Nitrogen, NO3+NO2	mg/L	( 5.9 )	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	10	2
Sulfate	mg/L	80	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	250	125

Notes:  
1. NR 140 ES = Wisconsin Administrative Code, Chapter NR 140 Enforcement Standard  
2. NR 140 PAL = Wisconsin Administrative Code, Chapter NR 140 Preventive Action Limit  
3. NS = no standard  
4. µg/L = micrograms per liter (equivalent to parts per billion, ppb)  
5. mg/L = milligrams per liter (equivalent to parts per million, ppm)  
6. NA = not analyzed  
7. Laboratory flags: "J" = Analyte detected between Limit of Detection and Limit of Quantitation  
8. NR 140 exceedances: [ ] = Concentration exceeds NR 140 ES  
( ) = Concentration exceeds NR 140 PAL

Table 4 Groundwater Quality Results V. A. Medical Center Building #112 - 5000 W. National Avenue, Milwaukee, Wisconsin Project Reference #12700																
Parameter	Units	PZ-1										PZ-1R		NR 140	NR 140	
		4/9/02	8/5/02	5/15/03	10/31/03	2/28/05	5/9/05	9/1/05	11/30/05	3/14/06	6/21/06	12/19/11	3/20/12	ES	PAL	
<b>PVOCs &amp; Detected VOCs</b>																
Benzene	µg/L	<0.48	<1.0	<1.0	<0.5	<0.26	<0.26	<0.26	<0.26	<0.26	<0.17	<0.5	<0.5	5	0.5	
Bromodichloromethane	µg/L	<0.61	<1.0	<1.0	<0.5	<0.28	<0.28	<0.28	<0.28	<0.28	<0.82	<0.68	<0.68	0.6	0.06	
Bromoform	µg/L	<0.70	NA	NA	NA	<0.4	<0.4	<0.4	<0.4	<0.4	<0.3	<0.43	<0.43	4.4	0.44	
Carbon Tetrachloride	µg/L	<0.73	<1.0	<1.0	<0.5	<0.25	<0.25	<0.25	<0.25	<0.25	<0.52	<0.47	<0.47	5	0.5	
Chloroethane	µg/L	<0.57	<1.0	<1.0	<0.5	<0.37	<0.37	<0.37	<0.37	<0.37	<0.37	<0.54	<1.4	<1.4	400	80
Chloroform	µg/L	<0.75	<1.0	<1.0	(1.19)	<0.78	<0.78	<0.78	<0.78	(0.80 "J")	<0.61	<0.49	<0.49	6	0.6	
Chloromethane	µg/L	<0.62	<1.0	<1.0	<0.6	<1.1	<1.1	<1.1	<1.1	<1.1	<0.91	<0.91	<1.9	30	3	
Dibromochloromethane	µg/L	<0.43	<1.0	<1.0	<0.5	<0.74	<0.74	<0.74	<0.74	<0.74	<0.65	<0.55	<0.55	60	6	
1,2-Dibromo-3-chloropropane	µg/L	<1.0	<2.0	<2.0	<0.39	<4.1	<4.1	<4.1	<4.1	<4.1	<2.5	<2.8	<2.8	0.2	0.02	
1,1-Dichloroethane	µg/L	<0.85	<1.0	<1.0	<0.5	<0.91	<0.91	<0.91	<0.91	<0.91	<0.22	<0.98	<0.98	850	85	
1,1-Dichloroethene	µg/L	<0.85	<1.0	<1.0	<0.5	<0.2	<0.2	<0.2	<0.2	<0.2	<0.3	<0.6	<0.6	7	0.7	
1,2-Dichloropropane	µg/L	<0.53	<1.0	<1.0	<0.5	<0.37	<0.37	<0.37	<0.37	<0.37	<0.21	<0.4	<0.4	5	0.5	
Ethylbenzene	µg/L	<0.43	<1.0	<1.0	<0.5	<0.3	<0.3	<0.3	<0.3	<0.3	<0.2	<0.78	<0.78	700	140	
Isopropylbenzene	µg/L	<0.43	<1.0	<1.0	<0.5	<0.56	<0.56	<0.56	<0.56	<0.56	<0.99	<0.92	<0.92	NS	NS	
Methylene chloride	µg/L	<0.85	<1.0	<1.0	<0.53	<0.55	<0.55	<0.55	<0.55	<0.55	<0.61	<1.1	<1.1	5	0.5	
Methyl Tert Butyl Ether	µg/L	<0.67	<1.0	<1.0	<0.5	<0.36	<0.36	<0.36	<0.36	<0.36	<0.34	<0.8	<0.8	60	12	
1,1,2,2-Tetrachloroethane	µg/L	<0.91	<1.0	<1.0	<0.35	<0.29	<0.29	<0.29	<0.29	<0.29	<0.89	<0.53	<0.53	0.2	0.02	
1,1,1,2-Tetrachloroethane	µg/L	<0.75	NA	NA	NA	<0.49	<0.49	<0.49	<0.49	<0.49	<0.48	<1	<1	70	7	
Tetrachloroethene	µg/L	<0.57	<1.0	<1.0	<0.5	<0.45	<0.45	<0.45	<0.45	<0.45	<0.37	<0.44	<0.44	5	0.5	
Toluene	µg/L	<0.47	<1.0	<1.0	<0.5	<0.52	<0.52	<0.52	<0.52	<0.52	<0.59	<0.53	<0.53	800	160	
1,1,2-Trichloroethane	µg/L	<0.72	<1.0	<1.0	<0.16	<0.35	<0.35	<0.35	<0.35	<0.35	<0.36	<0.47	<0.47	5	0.5	
Trichloroethene	µg/L	<0.89	<1.0	<1.0	<0.5	<0.37	<0.37	<0.37	<0.37	<0.37	<0.39	<0.47	<0.47	5	0.5	
1,2,4-Trimethylbenzene	µg/L	<0.51	<1.0	<1.0	<1.0	<0.32	<0.32	<0.32	<0.32	<0.32	<0.16	<0.8	<0.8	NS	NS	
1,3,5-Trimethylbenzene	µg/L	<0.52	<1.0	<1.0	<1.0	<0.83	<0.83	<0.83	<0.83	<0.83	<1.2	<0.74	<0.74	NS	NS	
Total Trimethylbenzenes	µg/L	<1.03	<2.0	<2.0	<2.0	<1.15	<1.15	<1.15	<1.15	<1.15	<1.36	<1.54	<1.54	480	96	
Vinyl Chloride	µg/L	<0.18	<1.0	<1.0	<0.17	<0.16	<0.16	<0.16	<0.16	<0.16	<0.11	<0.18	<0.18	0.2	0.02	
Xylenes, total	µg/L	<1.94	<3.0	<3.0	<0.50	<1.17	<1.17	<1.17	<1.17	<1.17	<1.28	<1.9	<1.9	2,000	400	
<b>Detected PAHs</b>																
Benzo(b)fluoranthene	µg/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	0.2	0.02	
Benzo(a)anthracene	µg/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NS	NS	
Fluoranthene	µg/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	400	80	
Chrysene	µg/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	0.2	0.02	
<b>Inorganic Compounds</b>																
Manganese-Dissolved	mg/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	0.05	0.025	
Nitrogen, NO3+NO2	mg/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	10	2	
Sulfate	mg/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	250	125	
Notes:																
1. NR 140 ES = Wisconsin Administrative Code, Chapter NR 140 Enforcement Standard																
2. NR 140 PAL = Wisconsin Administrative Code, Chapter NR 140 Preventive Action Limit																
3. NS = no standard																
4. µg/L = micrograms per liter (equivalent to parts per billion, ppb)																
5. mg/L = milligrams per liter (equivalent to parts per million, ppm)																
6. NA = not analyzed																
7. Laboratory flags: "J" = Analyte detected between Limit of Detection and Limit of Quantitation																
8. NR 140 exceedances: [ ] = Concentration exceeds NR 140 ES																
( ) = Concentration exceeds NR 140 PAL																

**Table 3**  
**Static Groundwater Elevations**  
**V. A. Medical Center Building #112 - 5000 W. National Avenue, Milwaukee, Wisconsin**  
**Project Reference #12700**

Monitoring Well Identification	Date	Ground Surface Elevation		Top of Casing Elevation		Depth to Groundwater (feet toc)	Depth to Groundwater (feet bgs)	Groundwater Elevation		Well Screen Interval (feet bgs)					
		(feet City)	(feet)	(feet City)	(feet)			(feet City)	(feet)						
MW-1	08/06/01	72.8	653.4	72.46	653.06	dry	dry	dry	dry	6 to 16					
	09/07/01					7.76	8.07	64.70	645.30						
	04/09/02					4.15	4.46	68.31	648.91						
	05/03/02					6.09	6.40	66.37	646.97						
	08/05/02					10.11	10.42	62.35	642.95						
	05/15/03					5.78	6.09	66.68	647.28						
	10/31/03					11.50	11.81	60.96	641.56						
	02/28/05					6.72	7.03	65.74	646.34						
	05/09/05					5.73	6.04	66.73	647.33						
	09/01/05					10.61	10.92	61.85	642.45						
	11/30/05					6.06	6.37	66.40	647.00						
	03/14/06					4.45	4.76	68.01	648.61						
	06/21/06					9.23	9.54	63.23	643.83						
	MW-1R					12/19/11		653.5			653.17	dry	---	---	---
01/04/12					13.68	14.05	---		639.49						
03/20/12					7.22	7.59	---		645.95						
MW-2	08/06/01	70.7	651.3	70.31	650.91	13.36	13.75	56.95	637.55	5 to 15					
	09/07/01					6.84	7.23	63.47	644.07						
	04/09/02					4.68	5.07	65.63	646.23						
	05/03/02					6.26	6.65	64.05	644.65						
	08/05/02					7.95	8.34	62.36	642.96						
	05/15/03					6.90	7.29	63.41	644.01						
	10/31/03					9.84	10.23	60.47	641.07						
	02/28/05					7.95	8.34	62.36	642.96						
	05/09/05					8.72	9.11	61.59	642.19						
	09/01/05					9.28	9.67	61.03	641.63						
	11/30/05					8.60	8.99	61.71	642.31						
	03/14/06					6.23	6.62	64.08	644.68						
	06/21/06					8.65	9.04	61.66	642.26						
	MW-2R					12/19/11		650.9			650.72	10.40	10.63	---	640.32
01/04/12					NM	---	---		---						
03/20/12					10.30	10.53	---		640.42						
MW-3	08/06/01	73.9	654.5	73.53	654.13	6.79	7.17	66.74	647.34	6 to 16					
	09/07/01					6.17	6.55	67.36	647.96						
	04/09/02					5.47	5.85	68.06	648.66						
	05/03/02					6.21	6.59	67.32	647.92						
	08/05/02					7.16	7.54	66.37	646.97						
	05/15/03					5.87	6.25	67.66	648.26						
	10/31/03					7.45	7.83	66.08	646.68						
	02/28/05					6.63	7.01	66.90	647.50						
	05/09/05					7.18	7.56	66.35	646.95						
	09/01/05					7.84	8.22	65.69	646.29						
	11/30/05					5.99	6.37	67.54	648.14						
	03/14/06					5.40	5.78	68.13	648.73						
	06/21/06					7.13	7.51	66.40	647.00						
	12/19/11						654.1		653.78		6.48	6.75	---	647.30	
	01/04/12											NM	---	---	---
	03/20/12											6.42	6.69	---	647.36
MW-4	04/09/02	74.0	654.6	73.60	654.20	9.61	10.03	63.99	644.59	6 to 16					
	05/03/02					7.02	7.44	66.58	647.18						
	08/05/02					4.95	5.37	68.65	649.25						
	05/15/03					5.22	5.64	68.38	648.98						
	10/31/03					14.09	14.51	59.51	640.11						
	02/28/05					6.17	6.59	67.43	648.03						
	05/09/05					4.07	4.49	69.53	650.13						
	09/01/05					12.67	13.09	60.93	641.53						
	11/30/05					14.41	14.83	59.19	639.79						
	03/14/06					3.68	4.10	69.92	650.52						
06/21/06	3.96	4.38	69.64	650.24											
Well MW-4 buried/destroyed during Hank Aaron State Trail work in late summer 2010. To be abandoned at later date.															

**Table 3**  
**Static Groundwater Elevations**  
**V. A. Medical Center Building #112 - 5000 W. National Avenue, Milwaukee, Wisconsin**  
**Project Reference #12700**

Monitoring Well Identification	Date	Ground Surface Elevation		Top of Casing Elevation		Depth to Groundwater (feet toc)	Depth to Groundwater (feet bgs)	Groundwater Elevation		Well Screen Interval (feet bgs)						
		(feet City)	(feet)	(feet City)	(feet)			(feet City)	(feet)							
MW-5	04/09/02	73.6	654.2	73.13	653.73	11.91	12.37	61.22	641.82	6 to 16						
	05/03/02					9.27	9.73	63.86	644.46							
	08/05/02					5.67	6.13	67.46	648.06							
	05/15/03					1.41	1.87	71.72	652.32							
	10/31/03					9.22	9.68	63.91	644.51							
	02/28/05					5.25	5.71	67.88	648.48							
	05/09/05					3.95	4.41	69.18	649.78							
	09/01/05					8.12	8.58	65.01	645.61							
	11/30/05					11.18	11.64	61.95	642.55							
	03/14/06					3.51	3.97	69.62	650.22							
	06/21/06					4.44	4.90	68.69	649.29							
	MW-5R					12/19/11		653.4			652.98	13.04	13.46	---	639.94	5 to 15
						01/04/12						NM	---	---	---	
03/20/12						13.04	13.46	---	639.94							
MW-6	04/09/02	70.9	651.5	70.59	651.19	13.61	13.96	56.98	637.58	6 to 16						
	05/03/02					11.39	11.74	59.20	639.80							
	08/05/02					6.87	7.22	63.72	644.32							
	05/15/03					6.29	6.64	64.30	644.90							
	10/31/03					5.92	6.27	64.67	645.27							
	02/28/05					5.80	6.15	64.79	645.39							
	05/09/05					6.40	6.75	64.19	644.79							
	09/01/05					5.50	5.85	65.09	645.69							
	11/30/05					4.96	5.31	65.63	646.23							
	03/14/06					5.33	5.68	65.26	645.86							
	06/21/06					5.73	6.08	64.86	645.46							
						12/19/11		651.1			650.63	5.20	5.65	---	645.43	
						01/04/12						NM	---	---	---	
	03/20/12					5.72	6.17	---	644.91							
MW-7	04/09/02	63.9	644.5	63.59	644.19	3.55	3.83	60.04	640.64	7 to 17						
	05/03/02					5.69	5.97	57.90	638.50							
	08/05/02					6.87	7.15	56.72	637.32							
	05/15/03					5.24	5.52	58.35	638.95							
	10/31/03					7.24	7.52	56.35	636.95							
	02/28/05					5.54	5.82	58.05	638.65							
	05/09/05					6.28	6.56	57.31	637.91							
	09/01/05					8.10	8.38	55.49	636.09							
	11/30/05					5.58	5.86	58.01	638.61							
	03/14/06					4.09	4.37	59.50	640.10							
	06/21/06					6.02	6.30	57.57	638.17							
						12/19/11		644.3			643.92	6.21	6.55	---	637.71	
						01/04/12						NM	---	---	---	
	03/20/12					5.67	6.01	---	638.25							
MW-8	04/09/02	67.2	647.8	66.92	647.52	6.15	6.42	60.77	641.37	6 to 16						
	05/03/02					8.15	8.42	58.77	639.37							
	08/05/02					8.60	8.87	58.32	638.92							
	05/15/03					7.88	8.15	59.04	639.64							
	10/31/03					8.60	8.87	58.32	638.92							
	02/28/05					8.06	8.33	58.86	639.46							
	05/09/05					8.50	8.77	58.42	639.02							
	09/01/05					8.83	9.10	58.09	638.69							
	11/30/05					8.06	8.33	58.86	639.46							
	03/14/06					7.10	7.37	59.82	640.42							
	06/21/06					8.48	8.75	58.44	639.04							
						12/19/11		647.4			647.16	8.48	8.68	---	638.68	
						01/04/12						NM	---	---	---	
	03/20/12					8.09	8.29	---	639.07							

**Table 3**  
**Static Groundwater Elevations**  
**V. A. Medical Center Building #112 - 5000 W. National Avenue, Milwaukee, Wisconsin**  
**Project Reference #12700**

Monitoring Well Identification	Date	Ground Surface Elevation		Top of Casing Elevation		Depth to Groundwater (feet toc)	Depth to Groundwater (feet bgs)	Groundwater Elevation		Well Screen Interval (feet bgs)
		(feet City)	(feet)	(feet City)	(feet)			(feet City)	(feet)	
PZ-1	04/09/02	70.8	651.4	70.58	651.18	13.75	14.01	56.83	637.43	30 to 35
	05/03/02					13.44	13.70	57.14	637.74	
	08/05/02					13.79	14.05	56.79	637.39	
	05/15/03					14.43	14.69	56.15	636.75	
	10/31/03					15.24	15.50	55.34	635.94	
	02/28/05					13.68	13.94	56.90	637.50	
	05/09/05					13.77	14.03	56.81	637.41	
	09/01/05					14.52	14.78	56.06	636.66	
	11/30/05					19.91	20.17	50.67	631.27	
	03/14/06					20.39	20.65	50.19	630.79	
	06/21/06					13.96	14.22	56.62	637.22	
PZ-1R	12/19/11		650.9		650.58	14.31	14.63	---	636.27	30 to 35
	01/04/12					NM	---	---	---	
	03/20/12					14.35	14.67	---	636.23	

Notes:

1. feet City = feet above City of Milwaukee datum
2. feet MSL = feet above Mean Sea Level
3. feet toc = feet below top of casing
4. feet bgs = feet below ground surface
5. Monitoring wells resurveyed on January 4, 2012 by Sigma Development, Inc. with a Trimble R8 GPS receiver.